

COMMITTENTE



Comune di Vinci
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VINCI (FI)

NUOVA SCUOLA DELL'INFANZIA "STACCIA BURATTA"

PROGETTISTA



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ISO 9001:2015 e ISO 14001:2015

Progetto Esecutivo

Elaborati Generali

RELAZIONE DI RESISTENZA AL FUOCO

Repertorio/Posizione 2815/01

Data Aprile 2021

Verificato da AC

E-GF-4

Scala

N.	Descrizione	Data
0	Prima Emissione	Apr 2021
1	Revisione	Ago 2021
2		
3		
4		
5		
6		





Comune di Vinci (FI)

REALIZZAZIONE NUOVA SCUOLA DELL'INFANZIA "STACCIA BURATTA"
NEL COMUNE DI VINCI (FI)

Progetto Esecutivo

RELAZIONE DI RESISTENZA AL FUOCO

In fase di progetto, dato l'uso della struttura, viene richiesta una resistenza al fuoco **R60**.

Gli elementi sono verificati contro l'incendio secondo il metodo della sezione efficace (EN 1995-1-2). Nelle verifiche degli elementi in Xlam si è adottata la velocità di carbonatazione prevista dall'EC5 per strutture bidimensionali piane ($\beta_0 = 0.55$ mm/min) relativa a legno massiccio e lamellare di conifera CON MASSA VOLUMICA Maggiore di 450 kg/m³. Lo stesso valore di velocità di carbonatazione si è utilizzato per le verifiche agli elementi monodimensionali in legno lamellare.

PARETI PROTETTE DA CONTROPARETE INTERNA

La maggior parte delle pareti in Xlam, nei lati interni, saranno protette con rivestimento in controparete costituita da:

1. intercapedine in lana di vetro spessore minimo 50mm;
2. lastra di cartongesso spessore 12.5 mm;
3. lastra di cartongesso spessore 12.5 mm.

•

Tale rivestimento offrirà un tempo di protezione t_{ch} terminato il quale il legno sarà direttamente esposto al fuoco; generalmente si assume che da tale istante istante il legno comincerà a bruciare ma, essendo la sua superficie già riscaldata, si sarà ridotto di uno spessore pari a $d_0 = 7$ mm e continuerà a bruciare con velocità di carbonatazione pari a β .

La protezione risultante da ciascuno strato di controparete sarà pari a:

1. $t_{ch} = 0.07 (h_{ins} - 20) \text{ radq}(\rho_{ins}) = 0.07 (50 - 20) \text{ radq} (30) = 11.5$ min
2. $t_{ch} = 2.8 h_p - 14 = 2.8 \times 12.5 - 14 = 21$ min
3. $t_{ch} = 2.8 h_p - 14 = 2.8 \times 12.5 - 14 = 21$ min $\times 50\% = 10.5$ min

La protezione totale offerta dalla controparete è pertanto pari a 43 min mentre i restanti 17 min dovranno essere garantiti dalla parete Xlam, realizzata con colla resistente al fuoco.

La profondità di carbonatazione è valutata con la formula:

$$d_{char,0} = \beta_{0,xlam} \times t + k_0 \times d_0 = 0.55 \text{ mm/min} \times 17 \text{ min} + 1.0 \times 7 \text{ mm} = 16.35 \text{ mm}$$

I valori della profondità di carbonatazione sono utilizzati per le verifiche al fuoco nel software ProSap.

PARETI NON PROTETTE DA CONTROPARETE INTERNA (ATRI INGRESSO)

La profondità di carbonatazione è valutata con la formula:

$$d_{char,0} = \beta_{0,xlam} \times t + k_0 \times d_0 = 0.24 \text{ mm/min} \times 60 \text{ min} + 1.0 \times 7 \text{ mm} = 21.4 \text{ mm}$$

dove $\beta_{0,xlam} = \beta_0 k_p k_h = 0.55 \times 0.95 \times 0.45 = 0.24$

in quanto si considera massa volumica di 500 kg/m³ e spessore del pannello pari a 100mm.

I valori della profondità di carbonatazione sono utilizzati per le verifiche al fuoco nel software ProSap.

UNIONI

Le unioni con chiodi e viti risultano protetti al fuoco dalla controparete.

Per quanto riguarda gli spinotti di connessione dei portali in legno lamellare è previsto che siano protetti con tappi, sempre in legno, di profondità pari almeno a 35mm.



Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 17 Gennaio 2018 cap. 10 "Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo".

Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2020-12-191)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it

Descrizione	
Ubicazione	Comune di VINCI (FI) (Regione TOSCANA)
	Località VINCI (FI)
	Longitudine 10.924, Latitudine 43.782

In merito al punto 10.2 delle Norme Tecniche per le Costruzioni (*Affidabilità dei codici utilizzati*), si fa riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Agosto 2020, disponibile per il download sul sito: <https://www.2si.it/it/prodotti/affidabilita/>

INTESTAZIONE E CONTENUTI DELLA RELAZIONE

Progetto

REALIZZAZIONE NUOVA SCUOLA DELL'INFANZIA "STACCIA BURATTA"

NEL COMUNE DI VINCI (FI) – PROGETTO ESECUTIVO

VERIFICA RESISTENZA AL FUOCO

Contenuti della relazione:

RELAZIONE DI CALCOLO STRUTTURALE

- *Origine e Caratteristiche dei Codici di Calcolo*
- *Affidabilità dei codici utilizzati*
- *Validazione dei codici*
- *Tipo di analisi svolta*
- *Modalità di presentazione dei risultati*
- *Informazioni generali sull'elaborazione*
- *Giudizio motivato di accettabilità dei risultati*

STAMPA DEI DATI DI INGRESSO

- *Normative prese a riferimento*
- *Criteri adottati per le misure di sicurezza*
- *Criteri seguiti nella schematizzazione della struttura, dei vincoli e delle sconessioni*
- *Interazione tra terreno e struttura*
- *Legami costitutivi adottati per la modellazione dei materiali e dei terreni*
- *Schematizzazione delle azioni, condizioni e combinazioni di carico*
- *Metodologie numeriche utilizzate per l'analisi strutturale*
- *Metodologie numeriche utilizzate per la progettazione e la verifica degli elementi strutturali*

STAMPA DEI RISULTATI



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CARATTERISTICHE MATERIALI UTILIZZATI

LEGENDA TABELLA DATI MATERIALI

Il programma consente l'uso di materiali diversi. Sono previsti i seguenti tipi di materiale:

1	materiale tipo cemento armato
2	materiale tipo acciaio
3	materiale tipo muratura
4	materiale tipo legno
5	materiale tipo generico

I materiali utilizzati nella modellazione sono individuati da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni materiale vengono riportati in tabella i seguenti dati:

Young	modulo di elasticità normale E
Poisson	coefficiente di contrazione trasversale ν
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica
Fattore di confidenza FC m	Fattore di confidenza specifico per materiale; (è riportato solo se diverso da quello globale della struttura)
Fattore di confidenza FC a	Fattore di confidenza specifico per l'armatura (è riportato solo se diverso da quello globale della struttura)
Elasto-plastico	Materiale elastico perfettamente plastico per aste non lineari
Massima compressione	Massima tensione di compressione per aste non lineari
Massima trazione	Massima tensione di trazione per aste non lineari
Fattore attrito	Coefficiente di attrito per aste non lineari
Rapporto HRDb	Rapporto di hardening a flessione
Rapporto HRDv	Rapporto di hardening a taglio

I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	c.a.	Resistenza Rc	resistenza a compressione cubica
		Resistenza f_{ctm}	resistenza media a trazione semplice
		Coefficiente k_{sb}	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione f_t	Valore della tensione di rottura
		Tensione f_y	Valore della tensione di snervamento
		Resistenza f_d	Resistenza di calcolo per SL CNR-UNI 10011
		Resistenza $f_d (>40)$	Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm
		Tensione ammissibile	Tensione ammissibile CNR-UNI 10011
		Tensione ammissibile(>40)	Tensione ammissibile CNR-UNI 10011 per spessori > 40mm

3	muratura	a	Muratura consolidata	Muratura per la quale si prevedono interventi di rinforzo"
			Incremento resistenza	Incremento conseguito in termini di resistenza
			Incremento rigidezza	Incremento conseguito in termini di rigidezza
			Resistenza f	Valore della resistenza a compressione
			Resistenza fv0	Valore della resistenza a taglio in assenza di tensioni normali
			Resistenza fh	Valore della resistenza a compressione orizzontale
			Resistenza fb	Valore della resistenza a compressione dei blocchi
			Resistenza fbh	Valore della resistenza a compressione dei blocchi in direzione orizzontale
			Resistenza fv0h	Valore della resistenza a taglio in assenza di tensioni normali per le travi
			Resistenza ft	Valore della resistenza a trazione per fessurazione diagonale
			Resistenza fvlim	Valore della massima resistenza a taglio
			Resistenza fbt	Valore della resistenza a trazione dei blocchi
			Coefficiente mu	Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4)
			Coefficiente fi	Coefficiente d'ingranamento utilizzato per la resistenza a taglio
			Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	E0,05	Modulo di elasticità corrispondente ad un frattile del 5%	
		Resistenza fc0	Valore della resistenza a compressione parallela	
		Resistenza ft0	Valore della resistenza a trazione parallela	
		Resistenza fm	Valore della resistenza a flessione	
		Resistenza fv	Valore della resistenza a taglio	
		Resist. ft0k	Resistenza caratteristica (tensione amm. per REGLES) per trazione	
		Resist. fmk	Resistenza caratteristica (tensione amm. per REGLES) per flessione	
		Resist. fvk	Resistenza caratteristica (tensione amm. per REGLES) per taglio	
		Modulo E0,05	Modulo elastico parallelo caratteristico	
		Lamellare	lamellare o massiccio	

Nel tabulato si riportano sia i valori caratteristici che medi utilizzando gli uni e/o gli altri in relazione alle richieste di normativa ed alla tipologia di verifica. (Cap.7 NTC18 per materiali nuovi, Cap.8 NTC18 e relativa circolare 21/01/2019 per materiali esistenti, Linee Guida Reluis per incamiciatura CAM, CNR-DT 200 per interventi con FRP)

Vengono inoltre riportate le tabelle contenenti il riassunto delle informazioni assegnate nei criteri di progetto in uso.

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
12	Acciaio Fe430 - S275-acciaio Fe430-S275			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	4300.0							
	Resistenza fd	2750.0							
	Resistenza fd (>40)	2500.0							
	Tensione ammissibile	1900.0							
	Tensione ammissibile (>40)	1700.0							
	Rapporto HRDb								1.00e-05
Rapporto HRDv								1.00e-05	
129	Legno lamellare omogeneo GL24h-legno E = 1.150e+05-legno E = 1.150e+05			1.150e+05	0.0	6500.0	5.00e-04	1.00e-05	
	Modulo E0,05			9.599e+04					
	Lamellare : SI								
	Resistenza fc0	240.0							

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Resistenza ft0	192.0							
	Resistenza fm	240.0							
	Resistenza fv	35.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
157	Materiale inf. rigido no peso E = 1.000e+09			1.000e+09	0.0	5.000e+08	0.0	1.20e-05	
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
200	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)			6.748e+04	0.0	6900.0	5.00e-04	1.00e-05	
	Modulo E0,05			6.748e+04					
	Lamellare : SI								
	Resistenza fc0	1.0							
	Resistenza ft0	1.0							
	Resistenza fm	1.0							
	Resistenza fv	1.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
201	XLAM orizz 18 (4+3+4+3+4)-legno E = 8.874e+04 (XLAM -4- orizz)			5.685e+04	0.0	6900.0	5.00e-04	1.00e-05	
	Modulo E0,05			5.685e+04					
	Lamellare : SI								
	Resistenza fc0	1.0							
	Resistenza ft0	1.0							
	Resistenza fm	1.0							
	Resistenza fv	1.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05

Aste acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Beta assegnato	0.80	0.80	0.80	0.80	0.80	0.80
	0.80	0.80	0.80	0.80	0.80	0.80
	0.80	0.80	0.80	0.80		
Verifica come controvento	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO		
Usa condizioni I e II	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI		
Coefficiente gamma M0	1.05	1.05	1.05	1.05	1.05	1.05
	1.05	1.05	1.05	1.05	1.05	1.05
	1.05	1.05	1.05	1.05		
Coefficiente gamma M1	1.05	1.05	1.05	1.05	1.05	1.05
	1.05	1.05	1.05	1.05	1.05	1.05
	1.05	1.05	1.05	1.05		
Coefficiente gamma M2	1.25	1.25	1.25	1.25	1.25	1.25
	1.25	1.25	1.25	1.25	1.25	1.25
	1.25	1.25	1.25	1.25		

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO		
Af inf: da traliccio	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI		
Consenti armatura a taglio	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO		
Incrementa armatura longitudinale per taglio	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI		
Af inf: da q*L*L /	20.00	20.00	20.00	20.00	20.00	20.00

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
	20.00	20.00	16.00	20.00	20.00	20.00
	20.00	20.00	20.00	20.00		
Incremento fascia piena [cm]	5.00	5.00	5.00	5.00	5.00	5.00
	5.00	5.00	5.00	5.00	5.00	5.00
	5.00	5.00	5.00	5.00		
Armatura						
Minima tesa	0.15	0.15	0.15	0.15	0.15	0.15
	0.15	0.15	0.15	0.15	0.15	0.15
	0.15	0.15	0.15	0.15		
Massima tesa	3.00	3.00	3.00	3.00	3.00	3.00
	3.00	3.00	3.00	3.00	3.00	3.00
	3.00	3.00	3.00	3.00		
Minima compressa	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0		
Af/h [cm]	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02
	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02
	7.000e-02	7.000e-02	7.000e-02	7.000e-02		
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00	4500.00	4300.00	4500.00	4500.00	4500.00
	4500.00	4500.00	4500.00	4500.00		
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C	tipo C	tipo C	tipo C		
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
	1.15	1.15	1.15	1.15	1.15	1.15
	1.15	1.15	1.15	1.15		
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
	1.50	1.50	1.60	1.50	1.50	1.50
	1.50	1.50	1.50	1.50		
Fattore di redistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0		
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00	85.00	85.00	85.00	85.00	85.00
	85.00	85.00	97.50	85.00	85.00	85.00
	85.00	85.00	85.00	85.00		
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00	2600.00	2600.00	2600.00
	2600.00	2600.00	2600.00	2600.00	2600.00	2600.00
	2600.00	2600.00	2600.00	2600.00		
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
	15.00	15.00	15.00	15.00	15.00	15.00
	15.00	15.00	15.00	15.00		
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
Verifica freccia						
Infinita	250.00	250.00	250.00	250.00	250.00	250.00
	250.00	250.00	500.00	250.00	250.00	250.00
	250.00	250.00	250.00	250.00		
Istantanea	500.00	500.00	500.00	500.00	500.00	500.00
	500.00	500.00	1000.00	500.00	500.00	500.00
	500.00	500.00	500.00	500.00		
Fattore viscosità	3.00	3.00	3.00	3.00	3.00	3.00
	3.00	3.00	3.00	3.00	3.00	3.00
	3.00	3.00	3.00	3.00		
Usa J non fessurato	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO		
Elementi non strutturali						
Tamponatura antiespulsione	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO		
Tamponatura con armatura	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO		
Fattore di struttura/comportamento	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00	2.00	2.00		
Coefficiente gamma m	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	2.00	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
	0.0	0.0	0.0	0.0		
Periodo Ta	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
Altezza pannello	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0		

Legno	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
aste						
Beta assegnato	0.80	0.80	0.80	0.80	0.80	0.80
	0.80	0.80	0.80	0.80	0.80	0.80
	0.80	0.80	0.80	0.80		
travi						
3-3 Beta * L automatico	SI	NO	SI	SI	SI	SI
	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI		
3-3 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
3-3 Beta * L assegnato [cm]	600.00	725.00	725.00	725.00	725.00	725.00
	725.00	725.00	0.0	725.00	725.00	725.00
	725.00	725.00	725.00	725.00		
2-2 Beta * L automatico	SI	NO	SI	SI	SI	SI
	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI		
2-2 Beta assegnato	600.00	725.00	725.00	725.00	725.00	725.00
	725.00	725.00	1.00	725.00	725.00	725.00
	725.00	725.00	725.00	725.00		
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0		
1-1 Beta * L automatico	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI	SI	SI
	SI	SI	SI	SI		
1-1 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0		
pilastrini						
Metodo di calcolo 3-3	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato
	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato
	Assegnato	Assegnato	Assegnato	Assegnato		
3-3 Beta assegnato	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00	2.00	2.00		
3-3 Beta * L assegnato [cm]	540.00	380.00	540.00	540.00	540.00	540.00
	540.00	540.00	0.0	540.00	540.00	540.00
	540.00	540.00	540.00	540.00		
Metodo di calcolo 2-2	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato
	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato
	Assegnato	Assegnato	Assegnato	Assegnato		
2-2 Beta assegnato	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00	2.00	2.00		
2-2 Beta * L assegnato [cm]	540.00	380.00	540.00	540.00	540.00	540.00
	540.00	540.00	0.0	540.00	540.00	540.00
	540.00	540.00	540.00	540.00		
1-1 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Legno	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
1-1 Beta * L assegnato [cm]	1.00	1.00	1.00	1.00		
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0		
Generalità						
Gamma non sismico	1.00	1.00	1.00	1.00	1.00	1.45
	1.00	1.00	1.30	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
Gamma sismico	1.00	1.00	1.00	1.00	1.00	1.25
	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
Classificazione						
Classe di servizio	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)
	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)
	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)		
Per classe di servizio 1						
Kmod permanente	1.00	1.00	1.00	1.00	1.00	0.60
	1.00	1.00	0.60	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
Kmod lunga	1.00	1.00	1.00	1.00	1.00	0.70
	1.00	1.00	0.70	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
Kmod media	1.00	1.00	1.00	1.00	1.00	0.80
	1.00	1.00	0.80	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
Kmod breve	1.00	1.00	1.00	1.00	1.00	0.90
	1.00	1.00	0.90	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
Kmod istantanea	1.00	1.00	1.00	1.00	1.00	1.10
	1.00	1.00	1.10	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
Kdef	0.60	0.60	0.60	0.60	0.60	0.60
	0.60	0.60	0.60	0.60	0.60	0.60
	0.60	0.60	0.60	0.60		
Per classe di servizio 2						
Kmod permanente	0.60	0.60	0.60	0.60	0.60	0.60
	0.60	0.60	0.60	0.60	0.60	0.60
	0.60	0.60	0.60	0.60		
Kmod lunga	0.70	0.70	0.70	0.70	0.70	0.70
	0.70	0.70	0.70	0.70	0.70	0.70
	0.70	0.70	0.70	0.70		
Kmod media	0.80	0.80	0.80	0.80	0.80	0.80
	0.80	0.80	0.80	0.80	0.80	0.80
	0.80	0.80	0.80	0.80		
Kmod breve	0.90	0.90	0.90	0.90	0.90	0.90
	0.90	0.90	0.90	0.90	0.90	0.90
	0.90	0.90	0.90	0.90		
Kmod istantanea	1.10	1.10	1.10	1.10	1.10	1.10
	1.10	1.10	1.10	1.10	1.10	1.10
	1.10	1.10	1.10	1.10		
Kdef	0.80	0.80	0.80	0.80	0.80	0.80
	0.80	0.80	0.80	0.80	0.80	0.80
	0.80	0.80	0.80	0.80		
Per classe di servizio 3						
Kmod permanente	0.50	0.50	0.50	0.50	0.50	0.50
	0.50	0.50	0.50	0.50	0.50	0.50
	0.50	0.50	0.50	0.50		
Kmod lunga	0.55	0.55	0.55	0.55	0.55	0.55
	0.55	0.55	0.55	0.55	0.55	0.55
	0.55	0.55	0.55	0.55		
Kmod media	0.65	0.65	0.65	0.65	0.65	0.65
	0.65	0.65	0.65	0.65	0.65	0.65
	0.65	0.65	0.65	0.65		
Kmod breve	0.70	0.70	0.70	0.70	0.70	0.70
	0.70	0.70	0.70	0.70	0.70	0.70
	0.70	0.70	0.70	0.70		
Kmod istantanea	0.90	0.90	0.90	0.90	0.90	0.90
	0.90	0.90	0.90	0.90	0.90	0.90
	0.90	0.90	0.90	0.90		
Kdef	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00	2.00	2.00	2.00	2.00

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Legno	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
	2.00	2.00	2.00	2.00		

XLAM	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
L direzione 1 [*] [cm]	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00		
L direzione 2 [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0		
Verifica V da D.38	NO	NO	NO	NO	NO	NO
	NO	NO	SI	NO	NO	NO
	NO	NO	NO	NO		
Verifica M da M.5-45	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO		
Media valori elementi	SI	SI	SI	SI	SI	SI
	SI	SI	NO	SI	SI	SI
	SI	SI	SI	SI		
Connessioni pareti						
rvpk [daN/cm]	50.00	50.00	60.00	60.00	25.00	35.00
	50.00	50.00	50.00	60.00	25.00	25.00
	25.00	35.00	25.00	25.00		
rvtk [daN/cm]	40.00	40.00	40.00	40.00	40.00	40.00
	50.00	40.00	50.00	40.00	40.00	40.00
	40.00	40.00	40.00	40.00		
rvlk [daN/cm]	50.00	50.00	50.00	50.00	50.00	50.00
	50.00	50.00	50.00	50.00	50.00	50.00
	50.00	50.00	50.00	50.00		
RHk [daN]	4200.00	4200.00	8400.00	4200.00	4200.00	4200.00
	4200.00	4200.00	5000.00	8400.00	4200.00	4200.00
	4200.00	4200.00	4200.00	4200.00		
dH [cm]	25.00	25.00	25.00	25.00	25.00	25.00
	25.00	25.00	25.00	25.00	25.00	25.00
	25.00	25.00	25.00	25.00		
fcH90k [daN/cm2]	20.00	20.00	20.00	20.00	20.00	20.00
	20.00	20.00	20.00	20.00	20.00	20.00
	20.00	20.00	20.00	20.00		
Pannelli solaio						
f ist<L/	300.00	500.00	300.00	300.00	300.00	300.00
	300.00	300.00	500.00	300.00	300.00	300.00
	300.00	300.00	300.00	300.00		
f inf<L/	250.00	350.00	250.00	250.00	250.00	250.00
	250.00	250.00	350.00	250.00	250.00	250.00
	250.00	250.00	250.00	250.00		
Verifica vibrazioni (EC5 7.3)	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO		
E massetto collaborante [daN/cm2]	200000.00	200000.00	200000.00	200000.00	200000.00	200000.00
	200000.00	200000.00	200000.00	200000.00	200000.00	200000.00
	200000.00	200000.00	200000.00	200000.00		
t massetto collaborante [cm]	1.000e-02	4.00	1.000e-02	1.000e-02	1.000e-02	1.000e-02
	1.000e-02	1.000e-02	4.00	1.000e-02	1.000e-02	1.000e-02
	1.000e-02	1.000e-02	1.000e-02	1.000e-02		
Smorzamento percentuale	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	1.00	0.0	0.0	0.0
	0.0	0.0	0.0	0.0		
Resistenza al fuoco						
Spessore carbonizzazione [cm]	1.65	0.0	1.65	1.65	0.0	1.65
	1.65	0.0	0.0	1.65	1.65	1.65
	1.65	1.65	2.10	2.10		
3- intradosso	SI	NO	NO	SI	NO	NO
	SI	NO	NO	SI	SI	NO
	SI	SI	NO	SI		
3+ estradosso	SI	NO	SI	SI	NO	SI
	SI	NO	NO	NO	SI	SI
	NO	NO	SI	SI		

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

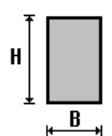
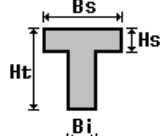
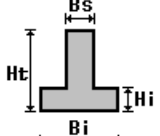
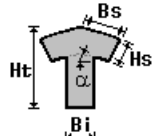
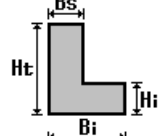
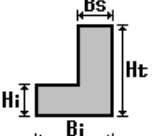
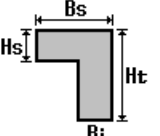
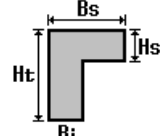
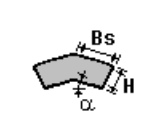
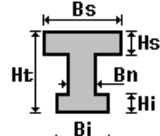
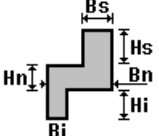
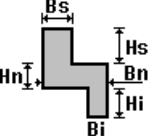
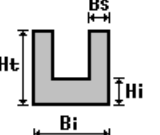
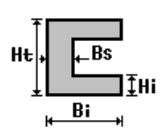
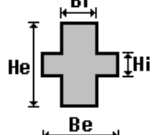
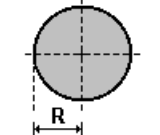
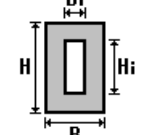
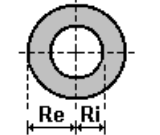
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

1. sezione di tipo generico
2. profilati semplici
3. profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

Area	area della sezione
A V2	area della sezione/fattore di taglio (per il taglio in direzione 2)
A V3	area della sezione/fattore di taglio (per il taglio in direzione 3)
Jt	fattore torsionale di rigidità
J2-2	momento d'inerzia della sezione riferito all'asse 2
J3-3	momento d'inerzia della sezione riferito all'asse 3
W2-2	modulo di resistenza della sezione riferito all'asse 2
W3-3	modulo di resistenza della sezione riferito all'asse 3
Wp2-2	modulo di resistenza plastico della sezione riferito all'asse 2
Wp3-3	modulo di resistenza plastico della sezione riferito all'asse 3

I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidità degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

 rettangolare	 a T	 a T rovescia	 a T di colmo	 a L	 a L specchiata
 a L specchiata rovescia	 a L rovescia	 a L di colmo	 a doppio T	 a quattro specchiata	 a quattro
 a U	 a C	 a croce	 circolare	 rettangolare cava	 circolare cava



Per quanto concerne i profilati semplici ed accoppiati l'asse 2 del riferimento coincide con l'asse x riportato nei più diffusi profilati.

Per quanto concerne le sezioni di tipo generico (tipo 1.):

i valori dimensionali con prefisso B sono riferiti all'asse 2

i valori dimensionali con prefisso H sono riferiti all'asse 3

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
1	pil legno-Rettangolare: b=16 h=40	640.00	533.33	533.33	4.085e+04	1.365e+04	8.533e+04	1706.67	4266.67	2560.00	6400.00
2	trave legno-Rettangolare: b=16 h=50	800.00	666.67	666.67	5.450e+04	1.707e+04	1.667e+05	2133.33	6666.67	3200.00	1.000e+04
4	FITTIZIA-Rettangolare: b=10 h=10	100.00	83.33	83.33	1405.68	833.33	833.33	166.67	166.67	250.00	250.00
6	tirante fi20-Circolare: r=1	3.14	2.65	2.65	1.57	0.79	0.79	0.79	0.79	1.33	1.33

MODELLAZIONE STRUTTURA: NODI

LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).

Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
Note	(FS = 1, 2,...) eventuale codice del tipo di fondazione speciale (1, 2,... fanno riferimento alle tipologie: plinto, palo, plinto su pali,...) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
Rig. TX	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

TABELLA DATI NODI

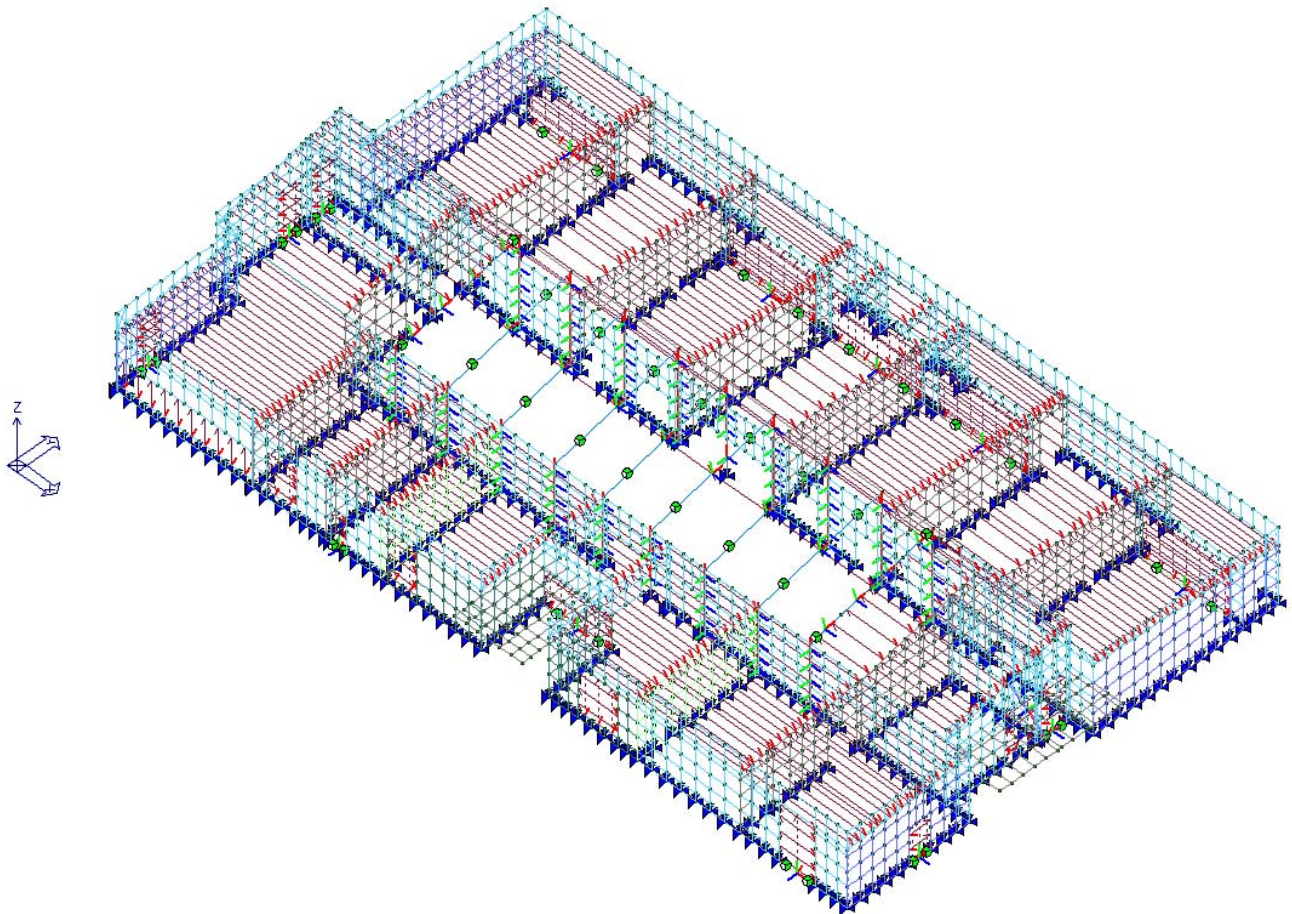
Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2673	892.9	1288.5	380.0	2677	1187.9	1288.5	380.0	2681	1497.9	1288.5	380.0
2685	1807.9	1288.5	380.0	2689	2082.9	1288.5	380.0	2694	2357.9	1288.5	380.0
2701	2667.9	1288.5	380.0	2705	2977.9	1288.5	380.0	2709	3272.9	1288.5	380.0
3204	892.9	1998.5	540.0	3205	1187.9	1998.5	540.0	3206	1497.9	1998.5	540.0
3207	1807.9	1998.5	540.0	3208	2082.9	1998.5	540.0	3209	2357.9	1998.5	540.0
3210	2667.9	1998.5	540.0	3211	2977.9	1998.5	540.0	3212	3272.9	1998.5	540.0

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
134	892.9	1288.5	0.0	v=111000						
138	1187.9	1288.5	0.0	v=111000						
142	1497.9	1288.5	0.0	v=111000						
146	1807.9	1288.5	0.0	v=111000						
150	2082.9	1288.5	0.0	v=111000						
152	2357.9	1288.5	0.0	v=111000						
157	2667.9	1288.5	0.0	v=111000						

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



161	2977.9	1288.5	0.0	v=111000
165	3272.9	1288.5	0.0	v=111000
239	892.9	1998.5	0.0	v=111000
243	1187.9	1998.5	0.0	v=111000
247	1497.9	1998.5	0.0	v=111000
253	1807.9	1998.5	0.0	v=111000
255	2082.9	1998.5	0.0	v=111000
257	2357.9	1998.5	0.0	v=111000
263	2667.9	1998.5	0.0	v=111000
267	2977.9	1998.5	0.0	v=111000
271	3272.9	1998.5	0.0	v=111000



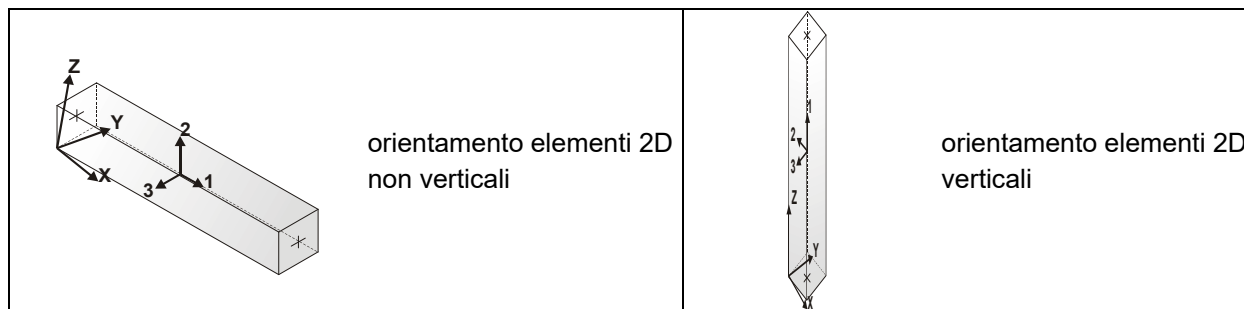
MODELLAZIONE STRUTTURALE: ELEMENTI TRAVE

TABELLA DATI TRAVI

Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi.

Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale.

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



In particolare per ogni elemento viene indicato in tabella:

Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione dell'elemento, attorno al proprio asse, nel caso in cui l'orientamento di default non sia adottabile; l'orientamento di default prevede per gli elementi non verticali l'asse 2 contenuto nel piano verticale e l'asse 3 orizzontale, per gli elementi verticali l'asse 2 diretto secondo X negativo e l'asse 3 diretto secondo Y negativo
Svincolo I (J)	codici di svincolo per le azioni interne; i primi sei codici si riferiscono al nodo iniziale, i restanti sei al nodo finale (il valore 1 indica che la relativa azione interna non è attiva)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
4	Pilas.	263	439	129	1	1	90.00				
5	Pilas.	134	603	129	1	2	90.00				
6	Pilas.	138	607	129	1	2	90.00				
7	Pilas.	142	611	129	1	2	90.00				
8	Pilas.	146	615	129	1	2	90.00				
9	Pilas.	150	619	129	1	2	90.00				
10	Pilas.	157	625	129	1	2	90.00				
11	Pilas.	161	629	129	1	2	90.00				
12	Pilas.	165	633	129	1	2	90.00				
13	Pilas.	239	707	129	1	1	90.00				
14	Pilas.	243	711	129	1	1	90.00				
15	Pilas.	267	714	129	1	1	90.00				
16	Pilas.	271	718	129	1	1	90.00				
17	Pilas.	424	1071	129	1	1	90.00				
18	Pilas.	430	1075	129	1	1	90.00				
19	Pilas.	433	1078	129	1	1	90.00				
20	Pilas.	439	1082	129	1	1	90.00				
21	Pilas.	603	961	129	1	2	90.00				
22	Pilas.	607	965	129	1	2	90.00				
23	Pilas.	611	969	129	1	2	90.00				
24	Pilas.	615	973	129	1	2	90.00				
25	Pilas.	619	977	129	1	2	90.00				
26	Pilas.	625	983	129	1	2	90.00				
27	Pilas.	629	987	129	1	2	90.00				
28	Pilas.	633	991	129	1	2	90.00				
29	Pilas.	707	1063	129	1	1	90.00				
30	Pilas.	711	1067	129	1	1	90.00				
31	Pilas.	714	1086	129	1	1	90.00				
32	Pilas.	718	1090	129	1	1	90.00				
33	Pilas.	152	1396	129	1	2	90.00				
34	Pilas.	255	1536	129	1	1	90.00				
35	Pilas.	961	1375	129	1	2	90.00				
36	Pilas.	965	1379	129	1	2	90.00				
37	Pilas.	969	1383	129	1	2	90.00				
38	Pilas.	973	1387	129	1	2	90.00				
39	Pilas.	977	1391	129	1	2	90.00				
40	Pilas.	983	1403	129	1	2	90.00				
41	Pilas.	987	1407	129	1	2	90.00				
42	Pilas.	991	1411	129	1	2	90.00				
43	Pilas.	1063	1460	129	1	1	90.00				
44	Pilas.	1067	1464	129	1	1	90.00				
45	Pilas.	1082	1469	129	1	1	90.00				
46	Pilas.	1086	1474	129	1	1	90.00				
47	Pilas.	1090	1478	129	1	1	90.00				
48	Pilas.	1071	1521	129	1	1	90.00				
49	Pilas.	1075	1530	129	1	1	90.00				
50	Pilas.	1078	1542	129	1	1	90.00				
51	Pilas.	1375	1898	129	1	2	90.00				
52	Pilas.	1379	1902	129	1	2	90.00				
53	Pilas.	1383	1906	129	1	2	90.00				
54	Pilas.	1387	1910	129	1	2	90.00				
55	Pilas.	1391	1914	129	1	2	90.00				
56	Pilas.	1396	1919	129	1	2	90.00				
57	Pilas.	1403	1926	129	1	2	90.00				
58	Pilas.	1407	1930	129	1	2	90.00				
59	Pilas.	1411	1934	129	1	2	90.00				
60	Pilas.	1460	2071	129	1	1	90.00				
61	Pilas.	1464	2075	129	1	1	90.00				
62	Pilas.	1469	2104	129	1	1	90.00				
63	Pilas.	1474	2109	129	1	1	90.00				
64	Pilas.	1478	2113	129	1	1	90.00				
65	Pilas.	1521	2080	129	1	1	90.00				
66	Pilas.	1530	2086	129	1	1	90.00				
67	Pilas.	1536	2092	129	1	1	90.00				
68	Pilas.	1542	2098	129	1	1	90.00				
69	Pilas.	1898	2673	129	1	2	90.00				
70	Pilas.	1902	2677	129	1	2	90.00				
71	Pilas.	1906	2681	129	1	2	90.00				
72	Pilas.	1910	2685	129	1	2	90.00				
73	Pilas.	1914	2689	129	1	2	90.00				
74	Pilas.	1919	2694	129	1	2	90.00				

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



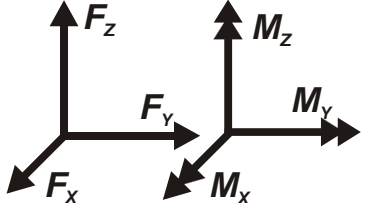
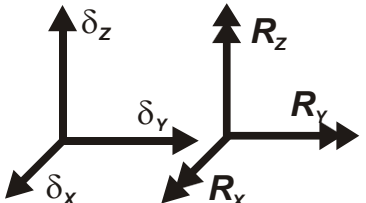
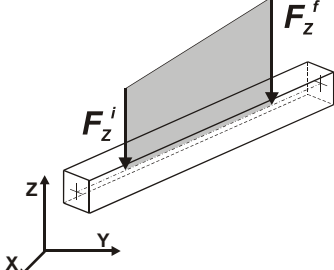
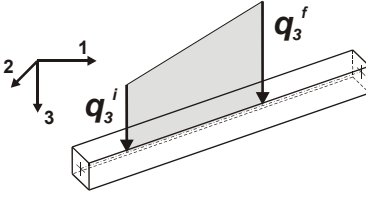
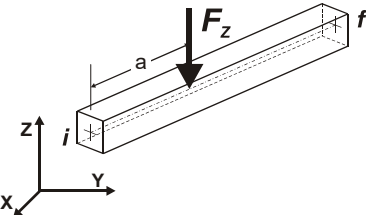
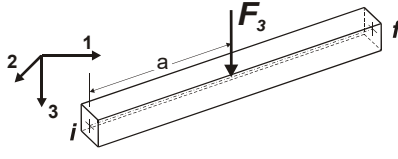
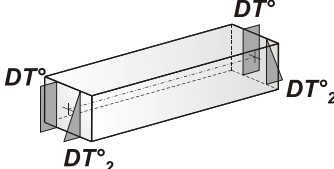
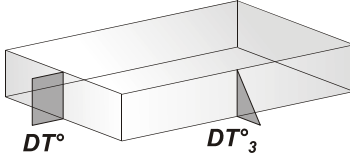
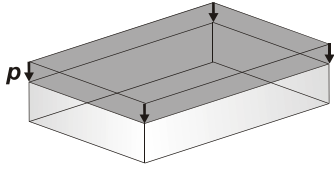
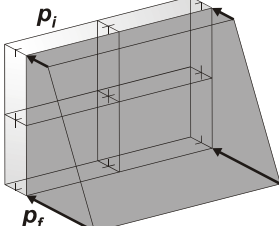
75	Pilas.	1926	2701	129	1	2	90.00		
76	Pilas.	1930	2705	129	1	2	90.00		
77	Pilas.	1934	2709	129	1	2	90.00		
78	Pilas.	2071	2832	129	1	1	90.00		
79	Pilas.	2075	2836	129	1	1	90.00		
80	Pilas.	2080	2841	129	1	1	90.00		
81	Pilas.	2086	2847	129	1	1	90.00		
82	Pilas.	2092	2853	129	1	1	90.00		
83	Pilas.	2098	2859	129	1	1	90.00		
84	Pilas.	2104	2865	129	1	1	90.00		
85	Pilas.	2109	2870	129	1	1	90.00		
86	Pilas.	2113	2874	129	1	1	90.00		
87	Trave	2673	3225	129	2	1		000011	
88	Trave	2677	3205	129	2	1		000011	000011
89	Trave	2681	3206	129	2	1		000011	000011
90	Trave	2685	3207	129	2	1		000011	000011
91	Trave	2689	3208	129	2	1		000011	000011
92	Trave	2694	3209	129	2	1		000011	000011
93	Trave	2701	3210	129	2	1		000011	000011
94	Trave	2705	3211	129	2	1		000011	000011
95	Trave	2709	3226	129	2	1		000011	
96	Pilas.	2832	3204	129	1	1	90.00		
97	Pilas.	2836	3205	129	1	1	90.00		
98	Pilas.	2841	3206	129	1	1	90.00		
99	Pilas.	2847	3207	129	1	1	90.00		
100	Pilas.	2853	3208	129	1	1	90.00		
101	Pilas.	2859	3209	129	1	1	90.00		
102	Pilas.	2865	3210	129	1	1	90.00		
103	Pilas.	2870	3211	129	1	1	90.00		
104	Pilas.	2874	3212	129	1	1	90.00		
118	Trave	3223	3227	129	2	1			
119	Trave	3224	3228	129	2	1			
120	Trave	3225	3223	129	2	1			
121	Trave	3226	3224	129	2	1			
122	Trave	3227	3204	129	2	1			000011
123	Trave	3228	3212	129	2	1			000011
124	Pilas.	247	424	129	1	1	90.00		
125	Pilas.	253	430	129	1	1	90.00		
126	Pilas.	257	433	129	1	1	90.00		

MODELLAZIONE DELLE AZIONI

LEGENDA TABELLA DATI AZIONI

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

1	carico concentrato nodale 6 dati (forza F_x , F_y , F_z , momento M_x , M_y , M_z)
2	spostamento nodale impresso 6 dati (spostamento T_x , T_y , T_z , rotazione R_x , R_y , R_z)
3	carico distribuito globale su elemento tipo trave 7 dati (f_x , f_y , f_z , m_x , m_y , m_z , ascissa di inizio carico) 7 dati (f_x , f_y , f_z , m_x , m_y , m_z , ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati (f_1 , f_2 , f_3 , m_1 , m_2 , m_3 , ascissa di inizio carico) 7 dati (f_1 , f_2 , f_3 , m_1 , m_2 , m_3 , ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati (F_x , F_y , F_z , M_x , M_y , M_z , ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati (F_1 , F_2 , F_3 , M_1 , M_2 , M_3 , ascissa di carico)
7	variazione termica applicata ad elemento tipo trave 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	carico di pressione uniforme su elemento tipo piastra 1 dato (pressione)
9	carico di pressione variabile su elemento tipo piastra 4 dati (pressione, quota, pressione, quota)
10	variazione termica applicata ad elemento tipo piastra 2 dati (variazioni termiche: media e differenza nello spessore)
11	carico variabile generale su elementi tipo trave e piastra 1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	gruppo di carichi con impronta su piastra 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell'impronta, interasse tra i carichi)

 <p>Carico concentrato nodale</p>	 <p>Spostamento impresso</p>
 <p>Carico distribuito globale</p>	 <p>Carico distribuito locale</p>
 <p>Carico concentrato globale</p>	 <p>Carico concentrato locale</p>
 <p>Carico termico 2D</p>	 <p>Carico termico 3D</p>
 <p>Carico pressione uniforme</p>	 <p>Carico pressione variabile</p>

Tipo carico di pressione uniforme su piastra

Id	Tipo	pressione
		daN/ m2
4	Vy+ copertura-P3;p= 3.000e-03	30.00
7	Vy- copertura-P3;p= 3.000e-03	30.00
10	Vx+ copertura-P3;p= 3.000e-03	30.00
13	Vx- copertura-P3;p= 3.000e-03	30.00

Tipo carico di pressione variabile su piastra

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Id	Tipo	pressione daN/ m2	quota m	pressione daN/ m2	quota m
2	Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0	60.00	6.00	60.00	0.0
3	Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0	30.00	6.00	30.00	0.0
5	Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0	-60.00	6.00	-60.00	0.0
6	Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0	-30.00	6.00	-30.00	0.0
8	Vx+ PARETE SOPRAVENTO-PL3:pi=6.000e-03 qi=600.00 pf=6.000e-03 qf=0.0	-60.00	6.00	-60.00	0.0
9	Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0	30.00	6.00	30.00	0.0
11	Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0	-60.00	6.00	-60.00	0.0
12	Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0	30.00	6.00	30.00	0.0

Tipo carico variabile generale

Id	Tipo	ascissa m	valore daN/ m2	ascissa m	valore daN/ m2
1	neve pensilina ingresso-QV:var y - Qz - Pres.				
	Y - Y Qz Pres. L2=0.0	4.00	-80.00	4.50	-80.00
		4.50	-80.00	4.50	-80.00
		4.50	-80.00	9.51	-200.00
14	acc neve h150-QV:var y - Qz - Pres.				
	Y - Y Qz Pres. L2=0.0	19.98	-120.00	24.98	0.0
15	acc neve h70-QV:var y - Qz - Pres.				
	Y - Y Qz Pres. L2=0.0	25.63	0.0	30.70	-60.00
16	acc neve h50-QV:var y - Qz - Pres.				
	Y - Y Qz Pres. L2=0.0	5.88	-20.00	10.88	0.0
17	neve pensilina lato-QV:var x - Qz - Pres.				
	X - X Qz Pres. L2=0.0	40.57	-200.00	45.57	-80.00

SCHEMATIZZAZIONE DEI CASI DI CARICO

LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.

Sono previsti i seguenti 11 tipi di casi di carico:

	Sigla	Tipo	Descrizione
1	Ggk	A	caso di carico comprensivo del peso proprio struttura
2	Gk	NA	caso di carico con azioni permanenti
3	Qk	NA	caso di carico con azioni variabili
4	Gsk	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	Qsk	A	caso di carico comprensivo dei carichi variabili sui solai
6	Qnk	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	Qtk	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	Qvk	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	Esk	SA	caso di carico sismico con analisi statica equivalente
10	Edk	SA	caso di carico sismico con analisi dinamica
11	Etk	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	Pk	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Sono di tipo automatico A (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico SA (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:

7-Qtk, in quanto richiede solo il valore della variazione termica;

9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico NA ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).

In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qnk	CDC=Qnk (carico da neve)	
5	Qvk	CDC=Qvk (carico da vento) dir X +	Azioni applicate:

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CDC	Tipo	Sigla Id	Note
			D3 : 100 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 102 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 109 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 110 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 117 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 124 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 129 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 130 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 138 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 144 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 150 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 151 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 156 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 157 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 160 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 161 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 210 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 211 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 214 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 215 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 218 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 219 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 222 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 223 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 225 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 227 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 228 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 231 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 232 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 235 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 251 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 252 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 253 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 254 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 294 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 295 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 296 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03

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CDC	Tipo	Sigla Id	Note
			qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 297 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 298 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 299 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 300 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 301 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 302 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 303 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 308 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 309 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 314 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 315 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 320 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 321 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 322 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 323 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 328 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 329 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 334 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 335 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 350 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 351 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 352 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 353 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 354 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 355 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 464 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 466 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 473 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 474 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 481 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 488 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 493 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 494 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 502 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 508 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 514 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0

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CDC	Tipo	Sigla Id	Note
			D3 : 515 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 520 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 521 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 524 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 525 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 574 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 575 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 578 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 579 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 582 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 583 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 586 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 587 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 589 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 591 a 592 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 595 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 611 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 612 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 613 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 614 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 654 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 655 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 656 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 657 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 658 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 659 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 660 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 661 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 662 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 663 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 668 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 669 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 674 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 675 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 680 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 681 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 682 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03

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CDC	Tipo	Sigla Id	Note
			qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 683 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 688 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 689 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 694 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 695 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 710 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 711 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 712 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 713 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 714 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 715 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 751 a 752 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 788 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 794 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 801 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 808 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 813 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 831 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 836 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 839 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 946 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 952 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 962 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 965 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 966 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 970 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 978 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 990 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 994 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 996 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 999 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1003 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1006 a 1007 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1014 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1017 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1021 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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CDC	Tipo	Sigla Id	Note
			D3 :da 1022 a 1027 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1030 a 1036 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1037 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1038 a 1043 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1045 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1063 a 1065 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1097 a 1099 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1102 a 1107 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1121 a 1122 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1156 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1162 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1171 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1179 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1185 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1199 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1205 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1208 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1216 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1224 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1232 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1382 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1388 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1414 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1417 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1418 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1422 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1430 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1442 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1446 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1448 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1451 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1455 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1458 a 1459 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1466 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1469 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1473 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1474 a 1479 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-

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CDC	Tipo	Sigla Id	Note
			D3 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1482 a 1488 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1495 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1496 a 1501 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1503 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1521 a 1523 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1555 a 1557 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1560 a 1565 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1772 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1774 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1775 a 1776 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1791 a 1792 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1793 a 1794 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1810 a 1811 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1812 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1818 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1877 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1882 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1885 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1888 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1894 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1899 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1902 a 1903 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1921 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1922 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1924 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1927 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1932 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1935 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1940 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1943 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1946 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1952 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1953 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1960 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1963 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1969 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0

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CDC	Tipo	Sigla Id	Note
			D3 : 1970 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1976 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1979 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1986 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1987 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2052 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2053 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2056 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2057 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2060 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2061 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2064 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2065 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2067 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2069 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2070 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2072 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2075 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2076 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2079 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2080 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2083 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2101 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2102 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2104 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2105 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2107 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2108 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2109 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2112 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2118 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2121 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2126 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2129 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2132 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2133 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2134 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03

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CDC	Tipo	Sigla Id	Note
			qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2137 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2144 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2147 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2222 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2223 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2226 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2340 a 2342 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2343 a 2344 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2348 a 2349 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2350 a 2351 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2355 a 2356 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2357 a 2358 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2361 a 2362 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2363 a 2364 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2366 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2368 a 2370 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2371 a 2372 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2381 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2382 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2383 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2384 a 2385 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2387 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2388 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2390 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2391 a 2392 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2393 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2394 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2395 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2396 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2397 a 2398 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2399 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2400 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2401 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2402 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2403 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2408 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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CDC	Tipo	Sigla Id	Note
			D3 : 2409 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2411 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2412 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2413 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2415 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2416 a 2418 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2419 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2420 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2421 a 2422 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2424 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2427 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2428 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2431 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2432 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2435 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2453 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2454 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2456 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2457 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2459 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2460 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2461 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2462 a 2463 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2467 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2468 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2471 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2494 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2495 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2496 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2497 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2499 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2501 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2502 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2505 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2506 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2509 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2527 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03

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CDC	Tipo	Sigla Id	Note
			qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2528 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2531 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2532 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2535 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2536 a 2537 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2543 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2564 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2567 a 2569 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2571 Azione : Vx+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2572 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2574 Azione : Vx+ PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
6	Qvk	CDC=Qvk (carico da vento) dir X -	Azioni applicate:
			D3 : 100 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 102 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 109 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 110 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 117 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 124 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 129 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 130 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 138 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 144 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 150 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 151 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 156 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 157 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 160 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 161 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 210 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 211 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 214 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 215 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 218 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 219 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 222 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 223 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 225 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03

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CDC	Tipo	Sigla Id	Note
			qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 227 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 228 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 231 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 232 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 235 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 251 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 252 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 253 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 254 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 294 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 295 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 296 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 297 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 298 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 299 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 300 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 301 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 302 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 303 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 308 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 309 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 314 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 315 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 320 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 321 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 322 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 323 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 328 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 329 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 334 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 335 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 350 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 351 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 352 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 353 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 354 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0

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CDC	Tipo	Sigla Id	Note
			D3 : 355 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 464 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 466 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 473 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 474 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 481 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 488 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 493 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 494 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 502 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 508 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 514 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 515 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 520 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 521 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 524 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 525 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 574 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 575 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 578 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 579 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 582 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 583 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 586 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 587 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 589 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 591 a 592 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 595 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 611 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 612 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 613 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 614 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 654 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 655 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 656 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 657 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 658 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



CDC	Tipo	Sigla Id	Note
			qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 659 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 660 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 661 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 662 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 663 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 668 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 669 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 674 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 675 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 680 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 681 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 682 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 683 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 688 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 689 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 694 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 695 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 710 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 711 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 712 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 713 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 714 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 715 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 751 a 752 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 788 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 794 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 801 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 808 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 813 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 831 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 836 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 839 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 946 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 952 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 962 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 965 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0



CDC	Tipo	Sigla Id	Note
			D3 : 966 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 970 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 978 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 990 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 994 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 996 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 999 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1003 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1006 a 1007 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1014 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1017 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1021 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1022 a 1027 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1030 a 1036 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1037 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1038 a 1043 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1045 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1063 a 1065 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1097 a 1099 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1102 a 1107 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1121 a 1122 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1156 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1162 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1171 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1179 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1185 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1199 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1205 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1208 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1216 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1224 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1232 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1382 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1388 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1414 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1417 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1418 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



CDC	Tipo	Sigla Id	Note
			qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1422 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1430 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1442 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1446 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1448 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1451 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1455 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1458 a 1459 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1466 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1469 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1473 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1474 a 1479 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1482 a 1488 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1495 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1496 a 1501 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1503 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1521 a 1523 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1555 a 1557 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1560 a 1565 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1772 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1774 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1775 a 1776 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1791 a 1792 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1793 a 1794 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1810 a 1811 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1812 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1818 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1877 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1882 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1885 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1888 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1894 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1899 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1902 a 1903 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1921 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1922 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



CDC	Tipo	Sigla Id	Note
			D3 : 1924 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1927 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1932 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1935 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1940 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1943 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1946 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1952 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1953 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1960 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1963 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1969 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1970 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1976 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1979 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1986 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1987 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2052 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2053 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2056 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2057 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2060 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2061 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2064 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2065 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2067 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2069 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2070 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2072 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2075 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2076 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2079 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2080 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2083 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2101 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2102 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2104 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03

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CDC	Tipo	Sigla Id	Note
			qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2105 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2107 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2108 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2109 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2112 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2118 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2121 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2126 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2129 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2132 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2133 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2134 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2137 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2144 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2147 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2222 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2223 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2226 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2340 a 2342 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2343 a 2344 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2348 a 2349 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2350 a 2351 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2355 a 2356 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2357 a 2358 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2361 a 2362 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2363 a 2364 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2366 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2368 a 2370 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2371 a 2372 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2381 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2382 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2383 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2384 a 2385 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2387 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2388 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2390 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0

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CDC	Tipo	Sigla Id	Note
			D3 :da 2391 a 2392 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2393 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2394 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2395 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2396 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2397 a 2398 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2399 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2400 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2401 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2402 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2403 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2408 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2409 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2411 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2412 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2413 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2415 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2416 a 2418 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2419 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2420 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2421 a 2422 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2424 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2427 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2428 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2431 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2432 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2435 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2453 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2454 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2456 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2457 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2459 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2460 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2461 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2462 a 2463 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2467 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2468 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03

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CDC	Tipo	Sigla Id	Note
			qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2471 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2494 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2495 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2496 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2497 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2499 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2501 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2502 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2505 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2506 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2509 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2527 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2528 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2531 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2532 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2535 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2536 a 2537 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2543 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2564 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2567 a 2569 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2571 Azione : Vx- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2572 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 2574 Azione : Vx- PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
7	Qvk	CDC=Qvk (carico da vento) dir Y +	Azioni applicate:
			D3 :da 47 a 97 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 165 a 166 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 255 a 256 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 364 a 387 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 428 a 461 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 529 a 530 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 615 a 616 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 724 a 747 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 748 a 750 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 754 a 784 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 898 a 899 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1028 a 1029 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 1074 a 1096 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



CDC	Tipo	Sigla Id	Note
			D3 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1100 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1108 a 1120 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 1124 a 1152 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 1192 a 1197 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 1310 a 1311 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1480 a 1481 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 1532 a 1554 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 : 1558 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1666 a 1717 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 1718 a 1761 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 1910 a 1915 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 1995 a 1996 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 2151 a 2152 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2227 a 2279 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 2280 a 2339 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2375 a 2380 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 2404 a 2405 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 :da 2472 a 2474 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2476 a 2493 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2538 a 2540 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2544 a 2561 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
			D3 :da 2562 a 2563 Azione : Vy+ PARETE SOPRAVENTO-PL3:pi= 6.000e-03 qi=600.00 pf= 6.000e-03 qf=0.0
			D3 : 2573 Azione : Vy+ PARETE SOTTOVENTO-PL3:pi= 3.000e-03 qi=600.00 pf= 3.000e-03 qf=0.0
8	Qvk	CDC=Qvk (carico da vento) dir Y -	Azioni applicate:
			D3 :da 47 a 97 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 165 a 166 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 255 a 256 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 288 a 289 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 364 a 387 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 428 a 461 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 529 a 530 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 615 a 616 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 648 a 649 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 724 a 747 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 748 a 750 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 754 a 784 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 898 a 899 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



CDC	Tipo	Sigla Id	Note
			qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 944 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 : 984 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1028 a 1029 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1074 a 1096 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1100 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1108 a 1120 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1124 a 1152 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1192 a 1197 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1310 a 1311 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1380 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 : 1436 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1480 a 1481 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1532 a 1554 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 1558 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1666 a 1717 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1718 a 1761 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 1910 a 1915 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 1995 a 1996 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 2151 a 2152 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2220 a 2221 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 2227 a 2279 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 2280 a 2339 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2375 a 2380 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 2404 a 2405 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 :da 2465 a 2466 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2472 a 2474 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2476 a 2493 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2538 a 2540 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2544 a 2561 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 :da 2562 a 2563 Azione : Vy- PARETE SOTTOVENTO-PL3:pi=-3.000e-03 qi=600.00 pf=-3.000e-03 qf=0.0
			D3 : 2570 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
			D3 : 2573 Azione : Vy- PARETE SOPRAVENTO-PL3:pi=-6.000e-03 qi=600.00 pf=-6.000e-03 qf=0.0
9	Qk	CDC=Qk (variabile generico) accumulo neve	Azioni applicate:
10	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=Qnk (carico da neve)
11	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
12	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
13	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



CDC	Tipo	Sigla Id	Note
14	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
15	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
16	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
17	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico

DEFINIZIONE DELLE COMBINAZIONI

LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente. Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale SLU

$$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi 02 \cdot Qk2 + \gamma Q3 \cdot \psi 03 \cdot Qk3 + \dots$$

Combinazione caratteristica (rara) SLE

$$G1 + G2 + P + Qk1 + \psi 02 \cdot Qk2 + \psi 03 \cdot Qk3 + \dots$$

Combinazione frequente SLE

$$G1 + G2 + P + \psi 11 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \dots$$

Combinazione quasi permanente SLE

$$G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \dots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$$E + G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \dots$$

Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$$G1 + G2 + Ad + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \dots$$

Dove:

NTC 2018 Tabella 2.5.1

Destinazione d'uso/azione	$\psi 0$	$\psi 1$	$\psi 2$
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli $\leq 30kN$)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli $> 30kN$)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota $\leq 1000 m$	0,50	0,20	0,00
Neve a quota $> 1000 m$	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.1

	Coefficiente	EQU	A1	A2
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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



		γ_f			
<i>Carichi permanenti</i>	<i>Favorevoli</i>	γ_{G1}	0,9	1,0	1,0
	<i>Sfavorevoli</i>		1,1	1,3	1,0
<i>Carichi permanenti non strutturali</i> <i>(Non compiutamente definiti)</i>	<i>Favorevoli</i>	γ_{G2}	0,8	0,8	0,8
	<i>Sfavorevoli</i>		1,5	1,5	1,3
<i>Carichi variabili</i>	<i>Favorevoli</i>	γ_{Qi}	0,0	0,0	0,0
	<i>Sfavorevoli</i>		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 9	
10	SLU	Comb. SLU A1 10	
11	SLU	Comb. SLU A1 11	
12	SLU	Comb. SLU A1 12	
13	SLU	Comb. SLU A1 13	
14	SLU	Comb. SLU A1 14	
15	SLU	Comb. SLU A1 15	
16	SLU	Comb. SLU A1 16	
17	SLU	Comb. SLU A1 17	
18	SLU	Comb. SLU A1 18	
19	SLU	Comb. SLU A1 19	
20	SLU	Comb. SLU A1 20	
21	SLU	Comb. SLU A1 21	
22	SLU	Comb. SLU A1 22	
23	SLU	Comb. SLU A1 23	
24	SLU	Comb. SLU A1 24	
25	SLU	Comb. SLU A1 25	
26	SLU	Comb. SLU A1 26	
27	SLU	Comb. SLU A1 27	
28	SLU	Comb. SLU A1 28	
29	SLU	Comb. SLU A1 29	
30	SLU	Comb. SLU A1 30	
31	SLU	Comb. SLU A1 31	
32	SLU	Comb. SLU A1 32	
33	SLU	Comb. SLU A1 33	
34	SLU	Comb. SLU A1 34	
35	SLU	Comb. SLU A1 35	
36	SLU	Comb. SLU A1 36	
37	SLU	Comb. SLU A1 37	
38	SLU	Comb. SLU A1 38	
39	SLU	Comb. SLU A1 39	
40	SLU	Comb. SLU A1 40	
41	SLU	Comb. SLU A1 41	
42	SLU	Comb. SLU A1 42	
43	SLU	Comb. SLU A1 43	
44	SLU	Comb. SLU A1 44	
45	SLU	Comb. SLU A1 45	
46	SLU	Comb. SLU A1 46	
47	SLU(acc.)	Comb. SLU (Accid.) 47	
48	SLE(p)	Comb. SLE(perm.) 48	

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
2	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
3	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
4	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
5	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
6	1.00	1.00	0.80	0.75	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
7	1.30	1.30	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
8	1.30	1.30	1.50	1.50	0.90	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
9	1.00	1.00	0.80	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
10	1.00	1.00	0.80	1.50	0.90	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
11	1.30	1.30	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
12	1.30	1.30	1.50	0.75	1.50	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
13	1.00	1.00	0.80	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
14	1.00	1.00	0.80	0.75	1.50	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
15	1.30	1.30	1.50	0.75	0.90	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
16	1.00	1.00	0.80	0.75	0.90	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
17	1.30	1.30	1.50	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
18	1.30	1.30	1.50	1.50	0.0	0.90	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
19	1.00	1.00	0.80	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
20	1.00	1.00	0.80	1.50	0.0	0.90	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
21	1.30	1.30	1.50	0.75	0.0	0.90	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
22	1.00	1.00	0.80	0.75	0.0	0.90	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
23	1.30	1.30	1.50	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
24	1.30	1.30	1.50	0.75	0.0	1.50	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
25	1.00	1.00	0.80	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
26	1.00	1.00	0.80	0.75	0.0	1.50	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
27	1.30	1.30	1.50	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
28	1.30	1.30	1.50	1.50	0.0	0.0	0.90	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
29	1.00	1.00	0.80	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
30	1.00	1.00	0.80	1.50	0.0	0.0	0.90	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
31	1.30	1.30	1.50	0.75	0.0	0.0	0.90	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
32	1.00	1.00	0.80	0.75	0.0	0.0	0.90	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
33	1.30	1.30	1.50	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
34	1.30	1.30	1.50	0.75	0.0	0.0	1.50	0.0	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
35	1.00	1.00	0.80	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
36	1.00	1.00	0.80	0.75	0.0	0.0	1.50	0.0	0.75	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0											
37	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
38	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.90	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
39	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
40	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.90	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
41	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.90	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
42	1.00	1.00	0.80	0.75	0.0	0.0	0.0	0.90	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
43	1.30	1.30	1.50	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
44	1.30	1.30	1.50	0.75	0.0	0.0	0.0	1.50	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
45	1.00	1.00	0.80	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
46	1.00	1.00	0.80	0.75	0.0	0.0	0.0	1.50	0.75	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
47	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
48	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											

AZIONE SISMICA

VALUTAZIONE DELL' AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.

Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito <http://esse1.mi.ingv.it/>. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come indicato nell' allegato alle NTC (rispettivamente media pesata e interpolazione).

L' azione sismica viene definita in relazione ad un periodo di riferimento V_r che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento V_r e la probabilità di superamento P_{ver} associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno T_r e i relativi parametri di pericolosità sismica (vedi tabella successiva):

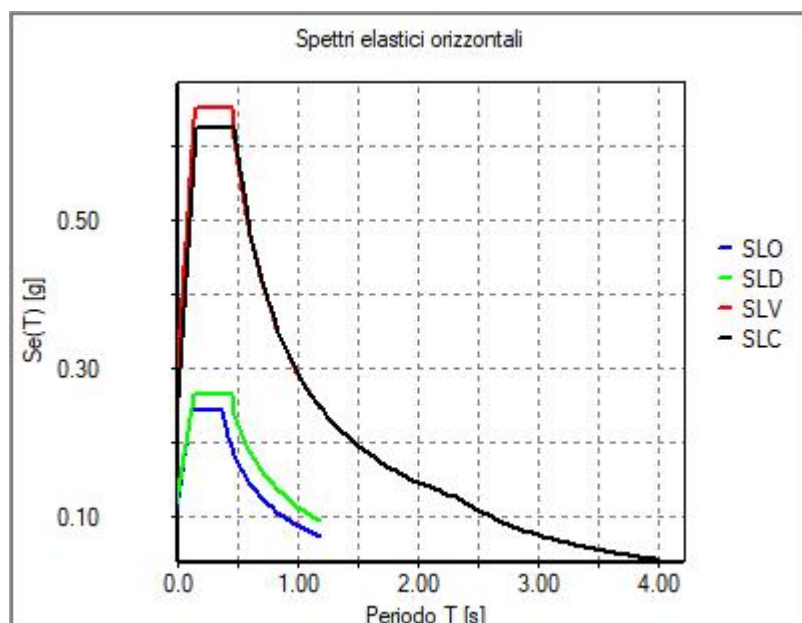
ag: accelerazione orizzontale massima del terreno;

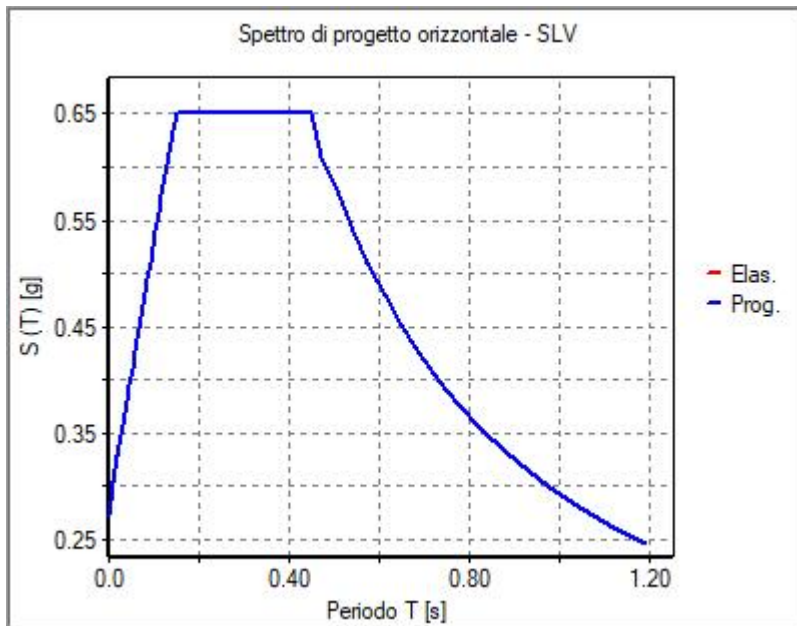
Fo: valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T^*c : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
III	50.0	1.5	75.0	C	T1

A seguito di approfonditi studi geologici e geotecnici, ovvero di studi di microzonazione, si è giunti alla definizione degli spettri utilizzati per i diversi stati limite da utilizzarsi in alternativa a quelli previsti dalla normativa, ottenuti dall'indagine sismica e meglio indicati nella Relazione Geologica; si riporta la rappresentazione grafica degli spettri.





RISULTATI ANALISI SISMICHE

LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

- 9. Esk** caso di carico sismico con analisi statica equivalente
- 10. Edk** caso di carico sismico con analisi dinamica

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l'azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore q	Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente Lambda	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata spettro S (Tb-Tc)	Valore dell' ordinata dello spettro in uso nel tratto costante
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

- a) **analisi sismica statica equivalente:**
 - quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - azione sismica complessiva
- b) **analisi sismica dinamica con spettro di risposta:**
 - quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze,

- rapporto r/L_s (per strutture a nucleo) , indici di regolarità e/r secondo EC8 4.2.3.2
- frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
- massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione ϵ_T (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità $1000 \cdot \epsilon_T/h$ da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Qualora si applichi il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") l'analisi sismica dinamica può essere comprensiva di sollecitazione verticale contemporanea a quella orizzontale, nel qual caso è effettuata una sovrapposizione degli effetti in ragione della radice dei quadrati degli effetti stessi. Per ciascuna combinazione sismica - analisi effettuate con il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") - viene riportato il livello di deformazione ϵ_T , ϵ_P e ϵ_D degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità $1000 \cdot \epsilon_T/h$ da confrontare direttamente con il valore 2 o 4 per la verifica.

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo la circolare n.7/2019 del C.S.LL.PP nelle combinazioni in SLC come previsto dal DM 17-01-2018. Per ogni combinazione è riportato il codice di verifica ed i valori utilizzati per la verifica: spostamento dE , area ridotta e dimensione A_2 , azione verticale, deformazioni di taglio dell'elastomero e tensioni nell'acciaio. Qualora si applichi l'Ordinanza 3274 e s.m.i. le verifiche sono eseguite in accordo con l'allegato 10.A. In particolare la tabella, per ogni combinazione di calcolo, riporta:

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata
dE	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) combinato con la regola del 30%
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta A_r (per dispositivi circolari)
V	Azione verticale agente
Ar	Area ridotta efficace
Dim A2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
Gam c(a,s,t)	Deformazioni di taglio dell' elastomero
Vcr	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

- 1) $V > 0$
- 2) $\text{Sig } s < f_{yk}$
- 3) $\text{Gam } t < 5$
- 4) $\text{Gam } s < \text{Gam } * \text{ (caratteristica dell' elastomero)}$
- 5) $\text{Gam } s < 2$
- 6) $V < 0.5 V_{cr}$

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Calcolo dei fattori di comportamento secondo il D.M. 17/01/2018

La costruzione, nuova, è caratterizzata da regolarità sia in pianta sia in altezza ed è progettata in classe di duttilità media (CD"B").

Parametri fattore in direzione x e y

Sistema costruttivo: legno

Tipologia strutturale: pannelli di tavole incollate a strati incrociati, collegati mediante chiodi, viti, bulloni o strutture reticolari con collegamenti a mezzo di chiodi, viti, bulloni o spinotti o strutture cosiddette miste, ovvero con intelaiatura (sismo-resistente) in legno e tamponature non portanti

Valore base fattore $q_0 = 2.500$

Fattore di regolarità $K_R = 1.0$

Fattore dissipativo $q_D = q_0 \cdot K_R = 2.500$

Fattori di comportamento utilizzati

Dissipativi

q SLU x 2.500

q SLU y 2.500

q SLU z 1.500

CDC	Tipo	Sigla Id	Note
10	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 1.229 sec.
			classe di duttilità CD: B
			ordinata spettro Sd(T1): 0.246

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	daN	daN	daN	m	m	m	m	m	m			
5.40	4898.49	4898.49	1.285e+04	20.67	19.99	0.0	0.0	20.63	19.99	0.008	0.004	1.8398e-04
5.34	158.88	5057.37	421.07	15.49	19.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.26	279.80	5337.17	753.74	18.67	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.19	225.67	5562.85	616.26	15.45	19.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.11	270.58	5833.42	749.22	18.66	18.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.03	147.49	5980.92	415.41	15.42	18.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	690.97	6671.89	1957.11	20.83	18.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97	291.89	6963.78	831.45	16.26	18.09	0.0	0.0	15.79	18.09	4.9874e-04	0.027	0.0
4.94	60.17	7023.96	172.42	40.58	17.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.93	87.40	7111.35	251.00	35.68	17.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.91	202.35	7313.70	583.78	2.75	17.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	278.14	7591.84	829.09	2.76	17.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	87.36	7679.20	260.60	40.58	17.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	122.13	7801.33	364.48	35.68	17.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.60	1145.15	8946.48	3525.59	21.84	17.28	0.0	-0.18	24.62	18.67	0.356	0.158	0.192
4.59	296.88	9243.36	915.37	2.96	16.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.56	83.97	9327.33	260.83	35.68	16.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.55	50.41	9377.75	156.82	40.58	16.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.43	1102.37	1.048e+04	3520.46	18.60	17.65	0.0	-1.24	25.46	18.10	1.381	0.236	0.026
4.40	73.84	1.055e+04	237.56	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.39	184.12	1.074e+04	593.31	5.98	15.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.37	131.63	1.087e+04	426.62	35.68	15.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.28	112.17	1.098e+04	371.52	-1.42	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.25	71.12	1.105e+04	236.88	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.20	756.59	1.181e+04	2551.18	17.37	14.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.18	124.73	1.193e+04	422.62	35.68	14.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.12	108.04	1.204e+04	371.63	-1.42	14.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.10	68.65	1.211e+04	237.08	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	1019.45	1.313e+04	3609.37	20.64	19.99	0.0	0.0	20.70	19.99	0.001	0.007	9.5900e-05
4.00	167.85	1.330e+04	594.53	5.98	13.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.99	117.89	1.342e+04	418.45	35.68	13.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	501.82	1.392e+04	1794.94	17.85	20.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	103.85	1.402e+04	371.52	-1.42	13.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	167.15	1.419e+04	598.29	29.78	20.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	497.29	1.469e+04	1780.38	20.85	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.95	65.64	1.475e+04	235.31	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.93	6.82	1.476e+04	24.54	35.68	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	491.64	1.525e+04	1780.10	20.83	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	718.28	1.597e+04	2601.56	20.76	21.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.87	492.30	1.646e+04	1802.89	21.03	22.29	0.0	-0.18	0.0	0.0	0.0	0.0	0.0
3.86	702.97	1.716e+04	2578.63	20.83	22.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.82	479.57	1.764e+04	1776.62	20.83	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.81	332.64	1.798e+04	1235.06	20.83	23.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.81	332.38	1.831e+04	1235.00	20.83	23.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.80	4429.30	2.274e+04	1.651e+04	20.37	13.23	0.0	-0.34	18.24	14.65	2.569	0.113	0.091
3.79	120.64	2.286e+04	451.26	35.68	12.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.79	111.63	2.297e+04	417.65	29.78	12.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.78	601.52	2.357e+04	2254.54	18.04	21.49	0.0	-0.57	0.0	0.0	0.0	0.0	0.0
3.77	628.36	2.420e+04	2361.97	20.83	24.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	177.92	2.438e+04	670.47	18.36	12.15	0.0	-7.00e-06	0.0	0.0	0.0	0.0	0.0
3.76	133.28	2.451e+04	502.33	11.88	12.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	110.98	2.462e+04	418.48	14.98	12.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	134.58	2.476e+04	508.03	20.83	12.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	126.29	2.488e+04	476.83	24.68	12.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.74	346.28	2.523e+04	1312.35	32.93	11.78	0.0	-3.74e-04	0.0	0.0	0.0	0.0	0.0
3.73	467.53	2.570e+04	1773.13	20.83	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.72	757.74	2.645e+04	2881.86	18.07	22.12	0.0	-0.67	0.0	0.0	0.0	0.0	0.0
3.72	176.46	2.663e+04	672.44	18.43	11.42	0.0	-1.45e-05	0.0	0.0	0.0	0.0	0.0
3.72	131.57	2.676e+04	501.54	11.88	11.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.71	109.43	2.687e+04	417.62	14.98	11.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	132.58	2.700e+04	507.01	20.83	11.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	124.36	2.713e+04	475.78	24.68	11.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	151.55	2.728e+04	581.28	29.78	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	461.53	2.774e+04	1771.39	20.83	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	168.36	2.791e+04	646.49	35.68	10.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	132.68	2.804e+04	510.10	7.72	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	343.83	2.839e+04	1322.28	23.78	25.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	333.90	2.872e+04	1285.10	17.88	25.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	158.38	2.888e+04	610.40	16.04	10.69	0.0	-2.15e-05	0.0	0.0	0.0	0.0	0.0
3.67	129.86	2.901e+04	500.76	11.88	10.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	107.90	2.912e+04	416.75	14.98	10.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	130.59	2.925e+04	505.99	20.83	10.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	118.88	2.937e+04	460.91	24.68	10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	44.78	2.941e+04	173.75	41.88	10.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	149.52	2.956e+04	580.42	29.78	10.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	152.33	2.971e+04	591.58	35.68	10.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	455.54	3.017e+04	1769.64	20.83	26.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.64	131.03	3.030e+04	509.39	7.72	10.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	96.09	3.040e+04	374.61	-0.22	9.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	128.16	3.052e+04	499.97	11.88	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	352.38	3.088e+04	1376.25	20.91	24.50	0.0	-0.84	0.0	0.0	0.0	0.0	0.0
3.62	317.14	3.119e+04	1239.56	23.78	26.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.62	106.37	3.130e+04	415.89	14.98	9.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	223.82	3.152e+04	878.87	22.67	9.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	150.40	3.167e+04	590.83	35.68	9.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	147.49	3.182e+04	579.57	29.78	9.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	129.39	3.195e+04	508.67	7.72	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	508.17	3.246e+04	1998.36	23.26	25.03	0.0	-0.88	0.0	0.0	0.0	0.0	0.0
3.59	94.99	3.255e+04	374.61	-0.22	9.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	494.56	3.305e+04	1951.87	20.77	27.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	144.08	3.319e+04	568.73	11.88	9.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.58	104.85	3.330e+04	415.03	14.98	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.57	70.31	3.337e+04	279.28	20.83	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	171.51	3.354e+04	681.57	35.68	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	63.35	3.360e+04	251.80	24.68	8.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	127.76	3.373e+04	507.95	7.72	8.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	72.21	3.380e+04	287.16	41.88	8.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	145.46	3.395e+04	578.71	29.78	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	443.60	3.439e+04	1766.16	20.83	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.55	498.00	3.489e+04	1986.39	20.83	27.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.55	91.86	3.498e+04	366.54	-0.22	8.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.53	231.69	3.521e+04	928.63	13.26	8.22	0.0	-1.27e-04	0.0	0.0	0.0	0.0	0.0
3.52	69.49	3.528e+04	279.28	20.83	8.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	60.50	3.534e+04	243.27	24.68	8.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	126.13	3.547e+04	507.23	7.72	8.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	71.39	3.554e+04	287.16	41.88	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	168.99	3.571e+04	680.79	29.78	7.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	864.92	3.657e+04	3487.06	20.78	28.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	217.72	3.679e+04	878.63	21.03	7.80	0.0	-2.50e-04	0.0	0.0	0.0	0.0	0.0
3.50	96.67	3.689e+04	391.15	11.88	7.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.49	416.09	3.731e+04	1688.29	27.38	22.45	0.0	-1.08	0.0	0.0	0.0	0.0	0.0
3.49	101.82	3.741e+04	413.30	14.98	7.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	93.67	3.750e+04	380.36	11.88	29.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	194.28	3.770e+04	789.86	20.83	29.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	68.68	3.776e+04	279.28	20.83	7.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	59.80	3.782e+04	243.27	24.68	7.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	195.08	3.802e+04	793.68	20.08	7.30	0.0	-3.69e-04	0.0	0.0	0.0	0.0	0.0
3.48	133.29	3.815e+04	543.17	20.83	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	81.88	3.823e+04	334.25	-0.22	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	95.63	3.833e+04	390.66	11.88	7.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.46	139.61	3.847e+04	572.17	29.78	6.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	192.25	3.866e+04	788.32	20.83	29.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	471.20	3.913e+04	1933.00	20.91	29.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	100.31	3.923e+04	412.43	14.98	6.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	67.11	3.930e+04	276.19	20.83	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	250.27	3.955e+04	1030.18	21.10	6.59	0.0	-4.00e-04	0.0	0.0	0.0	0.0	0.0
3.44	130.46	3.968e+04	537.48	20.83	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	156.03	3.984e+04	642.94	35.68	6.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	74.56	3.991e+04	307.45	-0.22	6.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	94.59	4.001e+04	390.17	11.88	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	87.46	4.009e+04	361.35	29.78	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.42	173.24	4.027e+04	716.49	20.83	30.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.41	322.66	4.059e+04	1338.37	20.83	30.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.40	1271.81	4.186e+04	5297.49	20.62	16.75	0.0	-1.24	20.15	16.20	0.749	7.1311e-04	0.045
3.05	3605.82	4.547e+04	1.674e+04	23.45	16.33	0.0	-1.31	20.94	11.29	0.400	0.162	0.529
2.55	3.14	4.547e+04	17.46	40.58	16.51	0.0	-0.09	0.0	0.0	0.0	0.0	0.0
2.49	5.14	4.548e+04	29.22	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.45	4.00	4.548e+04	23.12	40.58	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.43	5.01	4.548e+04	29.23	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.37	4.89	4.549e+04	29.22	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.31	4.77	4.549e+04	29.23	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.27	7.45	4.550e+04	46.53	41.63	30.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	4.66	4.551e+04	29.18	41.88	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	4.65	4.551e+04	29.18	41.88	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.25	365.35	4.588e+04	2299.58	13.54	25.06	0.0	-1.11	1.11	30.28	0.156	1.958	0.941
2.24	10.90	4.589e+04	68.81	20.83	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.45	4.589e+04	34.40	41.88	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.69	4.590e+04	35.97	-0.60	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	10.87	4.591e+04	68.81	20.83	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.43	4.591e+04	34.40	41.88	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	10.83	4.592e+04	68.81	20.83	26.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	11.07	4.594e+04	70.38	20.59	22.09	0.0	-0.41	0.0	0.0	0.0	0.0	0.0
2.23	5.41	4.594e+04	34.40	-0.22	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	10.80	4.595e+04	68.81	20.83	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	5.39	4.596e+04	34.40	41.88	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	14.83	4.597e+04	94.72	11.49	24.21	0.0	-0.49	0.0	0.0	0.0	0.0	0.0
2.22	15.36	4.599e+04	98.18	25.27	25.68	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
2.21	5.38	4.599e+04	34.40	41.88	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	10.73	4.600e+04	68.81	20.83	23.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	10.96	4.601e+04	70.38	21.43	20.94	0.0	-0.29	0.0	0.0	0.0	0.0	0.0
2.20	10.70	4.603e+04	68.81	20.83	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	5.34	4.603e+04	34.40	-0.22	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	5.34	4.604e+04	34.40	41.88	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	10.67	4.605e+04	68.81	20.83	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	5.57	4.605e+04	35.97	2.69	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	5.32	4.606e+04	34.40	41.88	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	10.63	4.607e+04	68.81	20.83	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	19.91	4.609e+04	129.12	20.27	23.20	0.0	-0.46	0.0	0.0	0.0	0.0	0.0
2.18	14.96	4.610e+04	97.09	25.15	22.67	0.0	-0.33	0.0	0.0	0.0	0.0	0.0
2.18	5.29	4.611e+04	34.40	41.88	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	70.97	4.618e+04	462.14	19.27	20.04	0.0	-0.04	20.83	19.97	0.078	0.687	0.042
2.17	5.52	4.619e+04	35.97	4.33	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.17	4.81	4.619e+04	31.42	41.88	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	5.49	4.620e+04	35.97	5.16	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	8.36	4.620e+04	54.85	14.98	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.15	1144.55	4.735e+04	7539.18	22.83	13.78	0.0	-1.04	22.55	11.04	0.170	0.024	0.497
2.05	44.04	4.739e+04	304.23	3.74	5.99	0.0	-0.06	-0.18	5.90	0.052	6.800	0.099
1.30	993.76	4.839e+04	1.083e+04	20.77	17.74	0.0	-1.24	31.02	16.81	0.675	0.866	0.039
0.45	234.00	4.862e+04	7364.29	20.64	16.63	0.0	-1.24	20.46	11.88	0.520	0.011	0.458
0.33	20.90	4.864e+04	910.89	20.91	23.20	0.0	-0.43	20.83	20.06	0.335	0.028	0.787
Risulta	4.864e+04		1.976e+05									

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



CDC	Tipo	Sigla Id	Note
11	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 1.229 sec.
			classe di duttilità CD: B
			ordinata spettro Sd(T1): 0.246

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	daN	daN	daN	m	m	m	m	m	m			
5.40	4898.49	4898.49	1.285e+04	20.67	19.99	0.0	0.0	20.63	19.99	0.008	0.004	1.8398e-04
5.34	158.88	5057.37	421.07	15.49	19.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.26	279.80	5337.17	753.74	18.67	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.19	225.67	5562.85	616.26	15.45	19.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.11	270.58	5833.42	749.22	18.66	18.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.03	147.49	5980.92	415.41	15.42	18.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	690.97	6671.89	1957.11	20.83	18.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97	291.89	6963.78	831.45	16.26	18.09	0.0	0.0	15.79	18.09	4.9874e-04	0.027	0.0
4.94	60.17	7023.96	172.42	40.58	17.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.93	87.40	7111.35	251.00	35.68	17.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.91	202.35	7313.70	583.78	2.75	17.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	278.14	7591.84	829.09	2.76	17.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	87.36	7679.20	260.60	40.58	17.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	122.13	7801.33	364.48	35.68	17.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.60	1145.15	8946.48	3525.59	21.84	17.28	0.0	0.18	24.62	18.67	0.356	0.158	0.192
4.59	296.88	9243.36	915.37	2.96	16.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.56	83.97	9327.33	260.83	35.68	16.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.55	50.41	9377.75	156.82	40.58	16.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.43	1102.37	1.048e+04	3520.46	18.60	17.65	0.0	1.24	25.46	18.10	1.381	0.236	0.026
4.40	73.84	1.055e+04	237.56	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.39	184.12	1.074e+04	593.31	5.98	15.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.37	131.63	1.087e+04	426.62	35.68	15.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.28	112.17	1.098e+04	371.52	-1.42	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.25	71.12	1.105e+04	236.88	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.20	756.59	1.181e+04	2551.18	17.37	14.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.18	124.73	1.193e+04	422.62	35.68	14.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.12	108.04	1.204e+04	371.63	-1.42	14.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.10	68.65	1.211e+04	237.08	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	1019.45	1.313e+04	3609.37	20.64	19.99	0.0	0.0	20.70	19.99	0.001	0.007	9.5900e-05
4.00	167.85	1.330e+04	594.53	5.98	13.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.99	117.89	1.342e+04	418.45	35.68	13.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	501.82	1.392e+04	1794.94	17.85	20.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	103.85	1.402e+04	371.52	-1.42	13.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	167.15	1.419e+04	598.29	29.78	20.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	497.29	1.469e+04	1780.38	20.85	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.95	65.64	1.475e+04	235.31	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.93	6.82	1.476e+04	24.54	35.68	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	491.64	1.525e+04	1780.10	20.83	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	718.28	1.597e+04	2601.56	20.76	21.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.87	492.30	1.646e+04	1802.89	21.03	22.29	0.0	0.18	0.0	0.0	0.0	0.0	0.0
3.86	702.97	1.716e+04	2578.63	20.83	22.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.82	479.57	1.764e+04	1776.62	20.83	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.81	332.64	1.798e+04	1235.06	20.83	23.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.81	332.38	1.831e+04	1235.00	20.83	23.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.80	4429.30	2.274e+04	1.651e+04	20.37	13.23	0.0	0.34	18.24	14.65	2.569	0.113	0.091
3.79	120.64	2.286e+04	451.26	35.68	12.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.79	111.63	2.297e+04	417.65	29.78	12.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.78	601.52	2.357e+04	2254.54	18.04	21.49	0.0	0.57	0.0	0.0	0.0	0.0	0.0
3.77	628.36	2.420e+04	2361.97	20.83	24.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	177.92	2.438e+04	670.47	18.36	12.15	0.0	7.00e-06	0.0	0.0	0.0	0.0	0.0
3.76	133.28	2.451e+04	502.33	11.88	12.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	110.98	2.462e+04	418.48	14.98	12.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	134.58	2.476e+04	508.03	20.83	12.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.75	126.29	2.488e+04	476.83	24.68	12.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.74	346.28	2.523e+04	1312.35	32.93	11.78	0.0	3.74e-04	0.0	0.0	0.0	0.0	0.0
3.73	467.53	2.570e+04	1773.13	20.83	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.72	757.74	2.645e+04	2881.86	18.07	22.12	0.0	0.67	0.0	0.0	0.0	0.0	0.0
3.72	176.46	2.663e+04	672.44	18.43	11.42	0.0	1.45e-05	0.0	0.0	0.0	0.0	0.0
3.72	131.57	2.676e+04	501.54	11.88	11.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.71	109.43	2.687e+04	417.62	14.98	11.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	132.58	2.700e+04	507.01	20.83	11.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	124.36	2.713e+04	475.78	24.68	11.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	151.55	2.728e+04	581.28	29.78	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	461.53	2.774e+04	1771.39	20.83	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	168.36	2.791e+04	646.49	35.68	10.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	132.68	2.804e+04	510.10	7.72	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	343.83	2.839e+04	1322.28	23.78	25.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	333.90	2.872e+04	1285.10	17.88	25.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	158.38	2.888e+04	610.40	16.04	10.69	0.0	2.15e-05	0.0	0.0	0.0	0.0	0.0
3.67	129.86	2.901e+04	500.76	11.88	10.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	107.90	2.912e+04	416.75	14.98	10.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	130.59	2.925e+04	505.99	20.83	10.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	118.88	2.937e+04	460.91	24.68	10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	44.78	2.941e+04	173.75	41.88	10.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	149.52	2.956e+04	580.42	29.78	10.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	152.33	2.971e+04	591.58	35.68	10.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	455.54	3.017e+04	1769.64	20.83	26.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.64	131.03	3.030e+04	509.39	7.72	10.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	96.09	3.040e+04	374.61	-0.22	9.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	128.16	3.052e+04	499.97	11.88	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	352.38	3.088e+04	1376.25	20.91	24.50	0.0	0.84	0.0	0.0	0.0	0.0	0.0
3.62	317.14	3.119e+04	1239.56	23.78	26.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.62	106.37	3.130e+04	415.89	14.98	9.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	223.82	3.152e+04	878.87	22.67	9.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	150.40	3.167e+04	590.83	35.68	9.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	147.49	3.182e+04	579.57	29.78	9.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	129.39	3.195e+04	508.67	7.72	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	508.17	3.246e+04	1998.36	23.26	25.03	0.0	0.88	0.0	0.0	0.0	0.0	0.0
3.59	94.99	3.255e+04	374.61	-0.22	9.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	494.56	3.305e+04	1951.87	20.77	27.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	144.08	3.319e+04	568.73	11.88	9.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.58	104.85	3.330e+04	415.03	14.98	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.57	70.31	3.337e+04	279.28	20.83	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	171.51	3.354e+04	681.57	35.68	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	63.35	3.360e+04	251.80	24.68	8.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	127.76	3.373e+04	507.95	7.72	8.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	72.21	3.380e+04	287.16	41.88	8.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	145.46	3.395e+04	578.71	29.78	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	443.60	3.439e+04	1766.16	20.83	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.55	498.00	3.489e+04	1986.39	20.83	27.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.55	91.86	3.498e+04	366.54	-0.22	8.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.53	231.69	3.521e+04	928.63	13.26	8.22	0.0	1.27e-04	0.0	0.0	0.0	0.0	0.0
3.52	69.49	3.528e+04	279.28	20.83	8.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	60.50	3.534e+04	243.27	24.68	8.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	126.13	3.547e+04	507.23	7.72	8.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	71.39	3.554e+04	287.16	41.88	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	168.99	3.571e+04	680.79	29.78	7.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	864.92	3.657e+04	3487.06	20.78	28.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	217.72	3.679e+04	878.63	21.03	7.80	0.0	2.50e-04	0.0	0.0	0.0	0.0	0.0
3.50	96.67	3.689e+04	391.15	11.88	7.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	416.09	3.731e+04	1688.29	27.38	22.45	0.0	1.08	0.0	0.0	0.0	0.0	0.0
3.49	101.82	3.741e+04	413.30	14.98	7.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	93.67	3.750e+04	380.36	11.88	29.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	194.28	3.770e+04	789.86	20.83	29.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	68.68	3.776e+04	279.28	20.83	7.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	59.80	3.782e+04	243.27	24.68	7.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	195.08	3.802e+04	793.68	20.08	7.30	0.0	3.69e-04	0.0	0.0	0.0	0.0	0.0
3.48	133.29	3.815e+04	543.17	20.83	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	81.88	3.823e+04	334.25	-0.22	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	95.63	3.833e+04	390.66	11.88	7.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.46	139.61	3.847e+04	572.17	29.78	6.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	192.25	3.866e+04	788.32	20.83	29.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	471.20	3.913e+04	1933.00	20.91	29.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	100.31	3.923e+04	412.43	14.98	6.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.44	67.11	3.930e+04	276.19	20.83	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	250.27	3.955e+04	1030.18	21.10	6.59	0.0	4.00e-04	0.0	0.0	0.0	0.0	0.0
3.44	130.46	3.968e+04	537.48	20.83	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	156.03	3.984e+04	642.94	35.68	6.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	74.56	3.991e+04	307.45	-0.22	6.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	94.59	4.001e+04	390.17	11.88	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	87.46	4.009e+04	361.35	29.78	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.42	173.24	4.027e+04	716.49	20.83	30.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.41	322.66	4.059e+04	1338.37	20.83	30.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.40	1271.81	4.186e+04	5297.49	20.62	16.75	0.0	1.24	20.15	16.20	0.749	7.1311e-04	0.045
3.05	3605.82	4.547e+04	1.674e+04	23.45	16.33	0.0	1.31	20.94	11.29	0.400	0.162	0.529
2.55	3.14	4.547e+04	17.46	40.58	16.51	0.0	0.09	0.0	0.0	0.0	0.0	0.0
2.49	5.14	4.548e+04	29.22	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.45	4.00	4.548e+04	23.12	40.58	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.43	5.01	4.548e+04	29.23	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.37	4.89	4.549e+04	29.22	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.31	4.77	4.549e+04	29.23	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.27	7.45	4.550e+04	46.53	41.63	30.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	4.66	4.551e+04	29.18	41.88	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	4.65	4.551e+04	29.18	41.88	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.25	365.35	4.588e+04	2299.58	13.54	25.06	0.0	1.11	1.11	30.28	0.156	1.958	0.941
2.24	10.90	4.589e+04	68.81	20.83	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.45	4.589e+04	34.40	41.88	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.69	4.590e+04	35.97	-0.60	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	10.87	4.591e+04	68.81	20.83	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.43	4.591e+04	34.40	41.88	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	10.83	4.592e+04	68.81	20.83	26.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	11.07	4.594e+04	70.38	20.59	22.09	0.0	0.41	0.0	0.0	0.0	0.0	0.0
2.23	5.41	4.594e+04	34.40	-0.22	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	10.80	4.595e+04	68.81	20.83	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	5.39	4.596e+04	34.40	41.88	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	14.83	4.597e+04	94.72	11.49	24.21	0.0	0.49	0.0	0.0	0.0	0.0	0.0
2.22	15.36	4.599e+04	98.18	25.27	25.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0
2.21	5.38	4.599e+04	34.40	41.88	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	10.73	4.600e+04	68.81	20.83	23.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	10.96	4.601e+04	70.38	21.43	20.94	0.0	0.29	0.0	0.0	0.0	0.0	0.0
2.20	10.70	4.603e+04	68.81	20.83	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	5.34	4.603e+04	34.40	-0.22	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	5.34	4.604e+04	34.40	41.88	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	10.67	4.605e+04	68.81	20.83	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	5.57	4.605e+04	35.97	2.69	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	5.32	4.606e+04	34.40	41.88	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	10.63	4.607e+04	68.81	20.83	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	19.91	4.609e+04	129.12	20.27	23.20	0.0	0.46	0.0	0.0	0.0	0.0	0.0
2.18	14.96	4.610e+04	97.09	25.15	22.67	0.0	0.33	0.0	0.0	0.0	0.0	0.0
2.18	5.29	4.611e+04	34.40	41.88	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	70.97	4.618e+04	462.14	19.27	20.04	0.0	0.04	20.83	19.97	0.078	0.687	0.042
2.17	5.52	4.619e+04	35.97	4.33	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.17	4.81	4.619e+04	31.42	41.88	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	5.49	4.620e+04	35.97	5.16	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	8.36	4.620e+04	54.85	14.98	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.15	1144.55	4.735e+04	7539.18	22.83	13.78	0.0	1.04	22.55	11.04	0.170	0.024	0.497
2.05	44.04	4.739e+04	304.23	3.74	5.99	0.0	0.06	-0.18	5.90	0.052	6.800	0.099
1.30	993.76	4.839e+04	1.083e+04	20.77	17.74	0.0	1.24	31.02	16.81	0.675	0.866	0.039
0.45	234.00	4.862e+04	7364.29	20.64	16.63	0.0	1.24	20.46	11.88	0.520	0.011	0.458
0.33	20.90	4.864e+04	910.89	20.91	23.20	0.0	0.43	20.83	20.06	0.335	0.028	0.787
Risulta	4.864e+04		1.976e+05									

CDC	Tipo	Sigla Id	Note
12	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.422 sec.
			classe di duttilità CD: B
			ordinata spettro Sd(T1): 0.651

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	daN	daN	daN	m	m	m	m	m	m			
5.40	1.296e+04	1.296e+04	1.285e+04	20.67	19.99	2.10	0.0	20.63	19.99	0.008	0.004	1.8398e-04
5.34	420.36	1.338e+04	421.07	15.49	19.74	2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.26	740.27	1.412e+04	753.74	18.67	19.35	1.49	0.0	0.0	0.0	0.0	0.0	0.0
5.19	597.06	1.472e+04	616.26	15.45	19.04	2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.11	715.86	1.543e+04	749.22	18.66	18.72	1.49	0.0	0.0	0.0	0.0	0.0	0.0
5.03	390.22	1.582e+04	415.41	15.42	18.34	2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.00	1828.08	1.765e+04	1957.11	20.83	18.21	1.19	0.0	0.0	0.0	0.0	0.0	0.0
4.97	772.25	1.842e+04	831.45	16.26	18.09	2.10	0.0	15.79	18.09	4.9874e-04	0.027	0.0
4.94	159.20	1.858e+04	172.42	40.58	17.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.93	231.23	1.881e+04	251.00	35.68	17.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.91	535.34	1.935e+04	583.78	2.75	17.81	0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.75	735.86	2.009e+04	829.09	2.76	17.11	0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.75	231.13	2.032e+04	260.60	40.58	17.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	323.11	2.064e+04	364.48	35.68	17.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.60	3029.69	2.367e+04	3525.59	21.84	17.28	2.10	0.0	24.62	18.67	0.356	0.158	0.192
4.59	785.46	2.445e+04	915.37	2.96	16.41	0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.56	222.17	2.468e+04	260.83	35.68	16.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.55	133.37	2.481e+04	156.82	40.58	16.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.43	2916.50	2.773e+04	3520.46	18.60	17.65	2.17	0.0	25.46	18.10	1.381	0.236	0.026
4.40	195.36	2.792e+04	237.56	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.39	487.13	2.841e+04	593.31	5.98	15.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.37	348.25	2.876e+04	426.62	35.68	15.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.28	296.77	2.905e+04	371.52	-1.42	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.25	188.15	2.924e+04	236.88	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.20	2001.70	3.124e+04	2551.18	17.37	14.66	1.34	0.0	0.0	0.0	0.0	0.0	0.0
4.18	329.99	3.157e+04	422.62	35.68	14.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.12	285.85	3.186e+04	371.63	-1.42	14.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.10	181.63	3.204e+04	237.08	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	2697.12	3.474e+04	3609.37	20.64	19.99	2.17	0.0	20.70	19.99	0.001	0.007	9.5900e-05
4.00	444.08	3.518e+04	594.53	5.98	13.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.99	311.90	3.549e+04	418.45	35.68	13.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	1327.66	3.682e+04	1794.94	17.85	20.71	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.96	274.75	3.710e+04	371.52	-1.42	13.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	442.22	3.754e+04	598.29	29.78	20.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	1315.66	3.886e+04	1780.38	20.85	20.77	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.95	173.66	3.903e+04	235.31	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.93	18.03	3.905e+04	24.54	35.68	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	1300.72	4.035e+04	1780.10	20.83	21.56	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.91	1900.34	4.225e+04	2601.56	20.76	21.58	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.87	1302.45	4.355e+04	1802.89	21.03	22.29	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.86	1859.84	4.541e+04	2578.63	20.83	22.46	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.82	1268.77	4.668e+04	1776.62	20.83	23.13	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.81	880.06	4.756e+04	1235.06	20.83	23.28	0.90	0.0	0.0	0.0	0.0	0.0	0.0
3.81	879.37	4.844e+04	1235.00	20.83	23.33	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.80	1.172e+04	6.016e+04	1.651e+04	20.37	13.23	2.17	0.0	18.24	14.65	2.569	0.113	0.091
3.79	319.17	6.048e+04	451.26	35.68	12.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.79	295.33	6.077e+04	417.65	29.78	12.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.78	1591.41	6.236e+04	2254.54	18.04	21.49	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.77	1662.44	6.403e+04	2361.97	20.83	24.11	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.76	470.73	6.450e+04	670.47	18.36	12.15	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.76	352.62	6.485e+04	502.33	11.88	12.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	293.60	6.514e+04	418.48	14.98	12.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	356.06	6.550e+04	508.03	20.83	12.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	334.13	6.583e+04	476.83	24.68	12.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.74	916.14	6.675e+04	1312.35	32.93	11.78	0.29	0.0	0.0	0.0	0.0	0.0	0.0
3.73	1236.94	6.799e+04	1773.13	20.83	24.70	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.72	2004.74	6.999e+04	2881.86	18.07	22.12	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.72	466.86	7.046e+04	672.44	18.43	11.42	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.72	348.09	7.081e+04	501.54	11.88	11.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.71	289.53	7.109e+04	417.62	14.98	11.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	350.77	7.145e+04	507.01	20.83	11.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	329.03	7.177e+04	475.78	24.68	11.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	400.96	7.218e+04	581.28	29.78	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	1221.07	7.340e+04	1771.39	20.83	25.49	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.69	445.41	7.384e+04	646.49	35.68	10.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	351.02	7.419e+04	510.10	7.72	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	909.65	7.510e+04	1322.28	23.78	25.62	1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.68	883.40	7.599e+04	1285.10	17.88	25.67	1.19	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.67	419.02	7.641e+04	610.40	16.04	10.69	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.67	343.57	7.675e+04	500.76	11.88	10.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	285.47	7.703e+04	416.75	14.98	10.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	345.49	7.738e+04	505.99	20.83	10.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	314.53	7.769e+04	460.91	24.68	10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	118.48	7.781e+04	173.75	41.88	10.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	395.57	7.821e+04	580.42	29.78	10.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	403.01	7.861e+04	591.58	35.68	10.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	1205.21	7.982e+04	1769.64	20.83	26.28	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.64	346.67	8.016e+04	509.39	7.72	10.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	254.23	8.042e+04	374.61	-0.22	9.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	339.06	8.076e+04	499.97	11.88	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	932.29	8.169e+04	1376.25	20.91	24.50	1.79	0.0	0.0	0.0	0.0	0.0	0.0
3.62	839.05	8.253e+04	1239.56	23.78	26.67	1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.62	281.43	8.281e+04	415.89	14.98	9.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	592.15	8.340e+04	878.87	22.67	9.50	0.19	0.0	0.0	0.0	0.0	0.0	0.0
3.61	397.92	8.380e+04	590.83	35.68	9.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	390.20	8.419e+04	579.57	29.78	9.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	342.33	8.453e+04	508.67	7.72	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	1344.45	8.588e+04	1998.36	23.26	25.03	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.59	251.30	8.613e+04	374.61	-0.22	9.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	1308.44	8.744e+04	1951.87	20.77	27.29	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.59	381.19	8.782e+04	568.73	11.88	9.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.58	277.39	8.809e+04	415.03	14.98	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.57	186.01	8.828e+04	279.28	20.83	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	453.76	8.873e+04	681.57	35.68	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	167.60	8.890e+04	251.80	24.68	8.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	338.01	8.924e+04	507.95	7.72	8.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	191.04	8.943e+04	287.16	41.88	8.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	384.84	8.982e+04	578.71	29.78	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	1173.62	9.099e+04	1766.16	20.83	27.85	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.55	1317.55	9.231e+04	1986.39	20.83	27.96	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.55	243.03	9.255e+04	366.54	-0.22	8.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.53	612.98	9.316e+04	928.63	13.26	8.22	0.15	0.0	0.0	0.0	0.0	0.0	0.0
3.52	183.86	9.335e+04	279.28	20.83	8.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	160.08	9.351e+04	243.27	24.68	8.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	333.69	9.384e+04	507.23	7.72	8.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	188.88	9.403e+04	287.16	41.88	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	447.10	9.448e+04	680.79	29.78	7.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	2288.31	9.676e+04	3487.06	20.78	28.64	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.51	576.03	9.734e+04	878.63	21.03	7.80	1.79	0.0	0.0	0.0	0.0	0.0	0.0
3.50	255.76	9.760e+04	391.15	11.88	7.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	1100.85	9.870e+04	1688.29	27.38	22.45	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.49	269.37	9.897e+04	413.30	14.98	7.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	247.81	9.921e+04	380.36	11.88	29.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	514.00	9.973e+04	789.86	20.83	29.16	0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.48	181.70	9.991e+04	279.28	20.83	7.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	158.22	1.001e+05	243.27	24.68	7.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	516.11	1.006e+05	793.68	20.08	7.30	1.71	0.0	0.0	0.0	0.0	0.0	0.0
3.48	352.63	1.009e+05	543.17	20.83	29.30	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.47	216.63	1.012e+05	334.25	-0.22	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	253.00	1.014e+05	390.66	11.88	7.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.46	369.35	1.018e+05	572.17	29.78	6.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	508.64	1.023e+05	788.32	20.83	29.68	0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.45	1246.64	1.035e+05	1933.00	20.91	29.71	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.44	265.39	1.038e+05	412.43	14.98	6.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	177.56	1.040e+05	276.19	20.83	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	662.13	1.046e+05	1030.18	21.10	6.59	1.71	0.0	0.0	0.0	0.0	0.0	0.0
3.44	345.16	1.050e+05	537.48	20.83	29.97	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.44	412.81	1.054e+05	642.94	35.68	6.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	197.27	1.056e+05	307.45	-0.22	6.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	250.26	1.058e+05	390.17	11.88	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	231.39	1.061e+05	361.35	29.78	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.42	458.34	1.065e+05	716.49	20.83	30.21	0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.41	853.64	1.074e+05	1338.37	20.83	30.38	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.40	3364.79	1.108e+05	5297.49	20.62	16.75	2.10	0.0	20.15	16.20	0.749	7.1311e-04	0.045
3.05	9539.83	1.203e+05	1.674e+04	23.45	16.33	2.25	0.0	20.94	11.29	0.400	0.162	0.529
2.55	8.32	1.203e+05	17.46	40.58	16.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.49	13.59	1.203e+05	29.22	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.45	10.57	1.203e+05	23.12	40.58	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.43	13.27	1.203e+05	29.23	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
2.37	12.94	1.203e+05	29.22	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.31	12.61	1.204e+05	29.23	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.27	19.72	1.204e+05	46.53	41.63	30.64	0.04	0.0	0.0	0.0	0.0	0.0	0.0
2.26	12.33	1.204e+05	29.18	41.88	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	12.30	1.204e+05	29.18	41.88	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.25	966.58	1.214e+05	2299.58	13.54	25.06	2.16	0.0	1.11	30.28	0.156	1.958	0.941
2.24	28.83	1.214e+05	68.81	20.83	27.85	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.24	14.41	1.214e+05	34.40	41.88	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	15.05	1.214e+05	35.97	-0.60	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	28.75	1.215e+05	68.81	20.83	27.06	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.24	14.37	1.215e+05	34.40	41.88	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	28.66	1.215e+05	68.81	20.83	26.28	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.23	29.29	1.215e+05	70.38	20.59	22.09	2.08	0.0	0.0	0.0	0.0	0.0	0.0
2.23	14.30	1.215e+05	34.40	-0.22	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	28.57	1.216e+05	68.81	20.83	25.49	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.22	14.27	1.216e+05	34.40	41.88	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	39.22	1.216e+05	94.72	11.49	24.21	1.44	0.0	0.0	0.0	0.0	0.0	0.0
2.22	40.64	1.217e+05	98.18	25.27	25.68	0.88	0.0	0.0	0.0	0.0	0.0	0.0
2.21	14.22	1.217e+05	34.40	41.88	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	28.40	1.217e+05	68.81	20.83	23.92	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.21	29.00	1.217e+05	70.38	21.43	20.94	2.00	0.0	0.0	0.0	0.0	0.0	0.0
2.20	28.31	1.218e+05	68.81	20.83	23.13	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.20	14.14	1.218e+05	34.40	-0.22	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	14.13	1.218e+05	34.40	41.88	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	28.22	1.218e+05	68.81	20.83	22.34	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.19	14.75	1.218e+05	35.97	2.69	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	14.08	1.219e+05	34.40	41.88	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	28.13	1.219e+05	68.81	20.83	21.56	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.18	52.67	1.219e+05	129.12	20.27	23.20	1.92	0.0	0.0	0.0	0.0	0.0	0.0
2.18	39.57	1.220e+05	97.09	25.15	22.67	0.88	0.0	0.0	0.0	0.0	0.0	0.0
2.18	13.99	1.220e+05	34.40	41.88	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	187.78	1.222e+05	462.14	19.27	20.04	1.32	0.0	20.83	19.97	0.078	0.687	0.042
2.17	14.60	1.222e+05	35.97	4.33	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.17	12.73	1.222e+05	31.42	41.88	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	14.52	1.222e+05	35.97	5.16	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	22.12	1.222e+05	54.85	14.98	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.15	3028.11	1.253e+05	7539.18	22.83	13.78	2.17	0.0	22.55	11.04	0.170	0.024	0.497
2.05	116.51	1.254e+05	304.23	3.74	5.99	0.44	0.0	-0.18	5.90	0.052	6.800	0.099
1.30	2629.16	1.280e+05	1.083e+04	20.77	17.74	2.17	0.0	31.02	16.81	0.675	0.866	0.039
0.45	619.09	1.286e+05	7364.29	20.64	16.63	2.17	0.0	20.46	11.88	0.520	0.011	0.458
0.33	55.30	1.287e+05	910.89	20.91	23.20	0.72	0.0	20.83	20.06	0.335	0.028	0.787
Risulta	1.287e+05		1.976e+05									

CDC	Tipo	Sigla Id	Note
13	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.422 sec.
			classe di duttilità CD: B
			ordinata spettro Sd(T1): 0.651

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	daN	daN	daN	m	m	m	m	m	m			
5.40	1.296e+04	1.296e+04	1.285e+04	20.67	19.99	-2.10	0.0	20.63	19.99	0.008	0.004	1.8398e-04
5.34	420.36	1.338e+04	421.07	15.49	19.74	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.26	740.27	1.412e+04	753.74	18.67	19.35	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
5.19	597.06	1.472e+04	616.26	15.45	19.04	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.11	715.86	1.543e+04	749.22	18.66	18.72	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
5.03	390.22	1.582e+04	415.41	15.42	18.34	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.00	1828.08	1.765e+04	1957.11	20.83	18.21	-1.19	0.0	0.0	0.0	0.0	0.0	0.0
4.97	772.25	1.842e+04	831.45	16.26	18.09	-2.10	0.0	15.79	18.09	4.9874e-04	0.027	0.0
4.94	159.20	1.858e+04	172.42	40.58	17.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
4.93	231.23	1.881e+04	251.00	35.68	17.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.91	535.34	1.935e+04	583.78	2.75	17.81	-0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.75	735.86	2.009e+04	829.09	2.76	17.11	-0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.75	231.13	2.032e+04	260.60	40.58	17.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	323.11	2.064e+04	364.48	35.68	17.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.60	3029.69	2.367e+04	3525.59	21.84	17.28	-2.10	0.0	24.62	18.67	0.356	0.158	0.192
4.59	785.46	2.445e+04	915.37	2.96	16.41	-0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.56	222.17	2.468e+04	260.83	35.68	16.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.55	133.37	2.481e+04	156.82	40.58	16.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.43	2916.50	2.773e+04	3520.46	18.60	17.65	-2.17	0.0	25.46	18.10	1.381	0.236	0.026
4.40	195.36	2.792e+04	237.56	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.39	487.13	2.841e+04	593.31	5.98	15.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.37	348.25	2.876e+04	426.62	35.68	15.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.28	296.77	2.905e+04	371.52	-1.42	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.25	188.15	2.924e+04	236.88	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.20	2001.70	3.124e+04	2551.18	17.37	14.66	-1.34	0.0	0.0	0.0	0.0	0.0	0.0
4.18	329.99	3.157e+04	422.62	35.68	14.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.12	285.85	3.186e+04	371.63	-1.42	14.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.10	181.63	3.204e+04	237.08	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	2697.12	3.474e+04	3609.37	20.64	19.99	-2.17	0.0	20.70	19.99	0.001	0.007	9.5900e-05
4.00	444.08	3.518e+04	594.53	5.98	13.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.99	311.90	3.549e+04	418.45	35.68	13.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	1327.66	3.682e+04	1794.94	17.85	20.71	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.96	274.75	3.710e+04	371.52	-1.42	13.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	442.22	3.754e+04	598.29	29.78	20.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	1315.66	3.886e+04	1780.38	20.85	20.77	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.95	173.66	3.903e+04	235.31	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.93	18.03	3.905e+04	24.54	35.68	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	1300.72	4.035e+04	1780.10	20.83	21.56	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.91	1900.34	4.225e+04	2601.56	20.76	21.58	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.87	1302.45	4.355e+04	1802.89	21.03	22.29	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.86	1859.84	4.541e+04	2578.63	20.83	22.46	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.82	1268.77	4.668e+04	1776.62	20.83	23.13	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.81	880.06	4.756e+04	1235.06	20.83	23.28	-0.90	0.0	0.0	0.0	0.0	0.0	0.0
3.81	879.37	4.844e+04	1235.00	20.83	23.33	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.80	1.172e+04	6.016e+04	1.651e+04	20.37	13.23	-2.17	0.0	18.24	14.65	2.569	0.113	0.091
3.79	319.17	6.048e+04	451.26	35.68	12.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.79	295.33	6.077e+04	417.65	29.78	12.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.78	1591.41	6.236e+04	2254.54	18.04	21.49	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.77	1662.44	6.403e+04	2361.97	20.83	24.11	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.76	470.73	6.450e+04	670.47	18.36	12.15	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.76	352.62	6.485e+04	502.33	11.88	12.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	293.60	6.514e+04	418.48	14.98	12.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	356.06	6.550e+04	508.03	20.83	12.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	334.13	6.583e+04	476.83	24.68	12.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.74	916.14	6.675e+04	1312.35	32.93	11.78	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
3.73	1236.94	6.799e+04	1773.13	20.83	24.70	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.72	2004.74	6.999e+04	2881.86	18.07	22.12	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.72	466.86	7.046e+04	672.44	18.43	11.42	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.72	348.09	7.081e+04	501.54	11.88	11.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.71	289.53	7.109e+04	417.62	14.98	11.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	350.77	7.145e+04	507.01	20.83	11.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	329.03	7.177e+04	475.78	24.68	11.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	400.96	7.218e+04	581.28	29.78	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	1221.07	7.340e+04	1771.39	20.83	25.49	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.69	445.41	7.384e+04	646.49	35.68	10.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	351.02	7.419e+04	510.10	7.72	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	909.65	7.510e+04	1322.28	23.78	25.62	-1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.68	883.40	7.599e+04	1285.10	17.88	25.67	-1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.67	419.02	7.641e+04	610.40	16.04	10.69	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.67	343.57	7.675e+04	500.76	11.88	10.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	285.47	7.703e+04	416.75	14.98	10.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	345.49	7.738e+04	505.99	20.83	10.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	314.53	7.769e+04	460.91	24.68	10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	118.48	7.781e+04	173.75	41.88	10.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	395.57	7.821e+04	580.42	29.78	10.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	403.01	7.861e+04	591.58	35.68	10.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	1205.21	7.982e+04	1769.64	20.83	26.28	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.64	346.67	8.016e+04	509.39	7.72	10.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	254.23	8.042e+04	374.61	-0.22	9.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	339.06	8.076e+04	499.97	11.88	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.63	932.29	8.169e+04	1376.25	20.91	24.50	-1.79	0.0	0.0	0.0	0.0	0.0	0.0
3.62	839.05	8.253e+04	1239.56	23.78	26.67	-1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.62	281.43	8.281e+04	415.89	14.98	9.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	592.15	8.340e+04	878.87	22.67	9.50	-0.19	0.0	0.0	0.0	0.0	0.0	0.0
3.61	397.92	8.380e+04	590.83	35.68	9.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	390.20	8.419e+04	579.57	29.78	9.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	342.33	8.453e+04	508.67	7.72	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	1344.45	8.588e+04	1998.36	23.26	25.03	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.59	251.30	8.613e+04	374.61	-0.22	9.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	1308.44	8.744e+04	1951.87	20.77	27.29	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.59	381.19	8.782e+04	568.73	11.88	9.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.58	277.39	8.809e+04	415.03	14.98	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.57	186.01	8.828e+04	279.28	20.83	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	453.76	8.873e+04	681.57	35.68	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	167.60	8.890e+04	251.80	24.68	8.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	338.01	8.924e+04	507.95	7.72	8.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	191.04	8.943e+04	287.16	41.88	8.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	384.84	8.982e+04	578.71	29.78	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	1173.62	9.099e+04	1766.16	20.83	27.85	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.55	1317.55	9.231e+04	1986.39	20.83	27.96	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.55	243.03	9.255e+04	366.54	-0.22	8.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.53	612.98	9.316e+04	928.63	13.26	8.22	-0.15	0.0	0.0	0.0	0.0	0.0	0.0
3.52	183.86	9.335e+04	279.28	20.83	8.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	160.08	9.351e+04	243.27	24.68	8.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	333.69	9.384e+04	507.23	7.72	8.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	188.88	9.403e+04	287.16	41.88	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	447.10	9.448e+04	680.79	29.78	7.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	2288.31	9.676e+04	3487.06	20.78	28.64	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.51	576.03	9.734e+04	878.63	21.03	7.80	-1.79	0.0	0.0	0.0	0.0	0.0	0.0
3.50	255.76	9.760e+04	391.15	11.88	7.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	1100.85	9.870e+04	1688.29	27.38	22.45	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.49	269.37	9.897e+04	413.30	14.98	7.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	247.81	9.921e+04	380.36	11.88	29.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	514.00	9.973e+04	789.86	20.83	29.16	-0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.48	181.70	9.991e+04	279.28	20.83	7.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	158.22	1.001e+05	243.27	24.68	7.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	516.11	1.006e+05	793.68	20.08	7.30	-1.71	0.0	0.0	0.0	0.0	0.0	0.0
3.48	352.63	1.009e+05	543.17	20.83	29.30	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.47	216.63	1.012e+05	334.25	-0.22	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	253.00	1.014e+05	390.66	11.88	7.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.46	369.35	1.018e+05	572.17	29.78	6.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	508.64	1.023e+05	788.32	20.83	29.68	-0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.45	1246.64	1.035e+05	1933.00	20.91	29.71	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.44	265.39	1.038e+05	412.43	14.98	6.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	177.56	1.040e+05	276.19	20.83	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	662.13	1.046e+05	1030.18	21.10	6.59	-1.71	0.0	0.0	0.0	0.0	0.0	0.0
3.44	345.16	1.050e+05	537.48	20.83	29.97	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.44	412.81	1.054e+05	642.94	35.68	6.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	197.27	1.056e+05	307.45	-0.22	6.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	250.26	1.058e+05	390.17	11.88	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	231.39	1.061e+05	361.35	29.78	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.42	458.34	1.065e+05	716.49	20.83	30.21	-0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.41	853.64	1.074e+05	1338.37	20.83	30.38	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.40	3364.79	1.108e+05	5297.49	20.62	16.75	-2.10	0.0	20.15	16.20	0.749	7.1311e-04	0.045
3.05	9539.83	1.203e+05	1.674e+04	23.45	16.33	-2.25	0.0	20.94	11.29	0.400	0.162	0.529
2.55	8.32	1.203e+05	17.46	40.58	16.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.49	13.59	1.203e+05	29.22	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.45	10.57	1.203e+05	23.12	40.58	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.43	13.27	1.203e+05	29.23	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.37	12.94	1.203e+05	29.22	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.31	12.61	1.204e+05	29.23	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.27	19.72	1.204e+05	46.53	41.63	30.64	-0.04	0.0	0.0	0.0	0.0	0.0	0.0
2.26	12.33	1.204e+05	29.18	41.88	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	12.30	1.204e+05	29.18	41.88	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.25	966.58	1.214e+05	2299.58	13.54	25.06	-2.16	0.0	1.11	30.28	0.156	1.958	0.941
2.24	28.83	1.214e+05	68.81	20.83	27.85	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.24	14.41	1.214e+05	34.40	41.88	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	15.05	1.214e+05	35.97	-0.60	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	28.75	1.215e+05	68.81	20.83	27.06	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.24	14.37	1.215e+05	34.40	41.88	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	28.66	1.215e+05	68.81	20.83	26.28	-0.28	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
2.23	29.29	1.215e+05	70.38	20.59	22.09	-2.08	0.0	0.0	0.0	0.0	0.0	0.0
2.23	14.30	1.215e+05	34.40	-0.22	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	28.57	1.216e+05	68.81	20.83	25.49	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.22	14.27	1.216e+05	34.40	41.88	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	39.22	1.216e+05	94.72	11.49	24.21	-1.44	0.0	0.0	0.0	0.0	0.0	0.0
2.22	40.64	1.217e+05	98.18	25.27	25.68	-0.88	0.0	0.0	0.0	0.0	0.0	0.0
2.21	14.22	1.217e+05	34.40	41.88	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	28.40	1.217e+05	68.81	20.83	23.92	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.21	29.00	1.217e+05	70.38	21.43	20.94	-2.00	0.0	0.0	0.0	0.0	0.0	0.0
2.20	28.31	1.218e+05	68.81	20.83	23.13	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.20	14.14	1.218e+05	34.40	-0.22	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	14.13	1.218e+05	34.40	41.88	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	28.22	1.218e+05	68.81	20.83	22.34	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.19	14.75	1.218e+05	35.97	2.69	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	14.08	1.219e+05	34.40	41.88	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	28.13	1.219e+05	68.81	20.83	21.56	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.18	52.67	1.219e+05	129.12	20.27	23.20	-1.92	0.0	0.0	0.0	0.0	0.0	0.0
2.18	39.57	1.220e+05	97.09	25.15	22.67	-0.88	0.0	0.0	0.0	0.0	0.0	0.0
2.18	13.99	1.220e+05	34.40	41.88	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	187.78	1.222e+05	462.14	19.27	20.04	-1.32	0.0	20.83	19.97	0.078	0.687	0.042
2.17	14.60	1.222e+05	35.97	4.33	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.17	12.73	1.222e+05	31.42	41.88	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	14.52	1.222e+05	35.97	5.16	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	22.12	1.222e+05	54.85	14.98	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.15	3028.11	1.253e+05	7539.18	22.83	13.78	-2.17	0.0	22.55	11.04	0.170	0.024	0.497
2.05	116.51	1.254e+05	304.23	3.74	5.99	-0.44	0.0	-0.18	5.90	0.052	6.800	0.099
1.30	2629.16	1.280e+05	1.083e+04	20.77	17.74	-2.17	0.0	31.02	16.81	0.675	0.866	0.039
0.45	619.09	1.286e+05	7364.29	20.64	16.63	-2.17	0.0	20.46	11.88	0.520	0.011	0.458
0.33	55.30	1.287e+05	910.89	20.91	23.20	-0.72	0.0	20.83	20.06	0.335	0.028	0.787
Risulta	1.287e+05		1.976e+05									

CDC	Tipo	Sigla Id	Note
14	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 1.229 sec.
			ordinata spettro Se(T1): 0.096

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	daN	daN	daN	m	m	m	m	m	m			
5.40	1913.61	1913.61	1.285e+04	20.67	19.99	0.0	0.0	20.63	19.99	0.008	0.004	1.8398e-04
5.34	62.07	1975.68	421.07	15.49	19.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.26	109.31	2084.99	753.74	18.67	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.19	88.16	2173.15	616.26	15.45	19.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.11	105.70	2278.85	749.22	18.66	18.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.03	57.62	2336.47	415.41	15.42	18.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	269.93	2606.40	1957.11	20.83	18.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97	114.03	2720.43	831.45	16.26	18.09	0.0	0.0	15.79	18.09	4.9874e-04	0.027	0.0
4.94	23.51	2743.94	172.42	40.58	17.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.93	34.14	2778.08	251.00	35.68	17.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.91	79.05	2857.13	583.78	2.75	17.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	108.66	2965.78	829.09	2.76	17.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	34.13	2999.91	260.60	40.58	17.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	47.71	3047.62	364.48	35.68	17.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.60	447.36	3494.98	3525.59	21.84	17.28	0.0	-0.18	24.62	18.67	0.356	0.158	0.192
4.59	115.98	3610.96	915.37	2.96	16.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.56	32.80	3643.76	260.83	35.68	16.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.55	19.69	3663.46	156.82	40.58	16.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.43	430.64	4094.10	3520.46	18.60	17.65	0.0	-1.24	25.46	18.10	1.381	0.236	0.026
4.40	28.85	4122.95	237.56	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.39	71.93	4194.87	593.31	5.98	15.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.37	51.42	4246.30	426.62	35.68	15.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
4.28	43.82	4290.12	371.52	-1.42	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.25	27.78	4317.90	236.88	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.20	295.57	4613.46	2551.18	17.37	14.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.18	48.73	4662.19	422.62	35.68	14.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.12	42.21	4704.40	371.63	-1.42	14.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.10	26.82	4731.22	237.08	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	398.25	5129.47	3609.37	20.64	19.99	0.0	0.0	20.70	19.99	0.001	0.007	9.5900e-05
4.00	65.57	5195.04	594.53	5.98	13.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.99	46.05	5241.09	418.45	35.68	13.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	196.04	5437.13	1794.94	17.85	20.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	40.57	5477.70	371.52	-1.42	13.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	65.30	5543.00	598.29	29.78	20.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	194.27	5737.27	1780.38	20.85	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.95	25.64	5762.91	235.31	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.93	2.66	5765.57	24.54	35.68	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	192.06	5957.64	1780.10	20.83	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	280.60	6238.24	2601.56	20.76	21.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.87	192.32	6430.55	1802.89	21.03	22.29	0.0	-0.18	0.0	0.0	0.0	0.0	0.0
3.86	274.62	6705.17	2578.63	20.83	22.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.82	187.34	6892.52	1776.62	20.83	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.81	129.95	7022.47	1235.06	20.83	23.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.81	129.85	7152.31	1235.00	20.83	23.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.80	1730.32	8882.64	1.651e+04	20.37	13.23	0.0	-0.34	18.24	14.65	2.569	0.113	0.091
3.79	47.13	8929.76	451.26	35.68	12.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.79	43.61	8973.37	417.65	29.78	12.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.78	234.98	9208.36	2254.54	18.04	21.49	0.0	-0.57	0.0	0.0	0.0	0.0	0.0
3.77	245.47	9453.83	2361.97	20.83	24.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	69.51	9523.33	670.47	18.36	12.15	0.0	-7.00e-06	0.0	0.0	0.0	0.0	0.0
3.76	52.07	9575.40	502.33	11.88	12.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	43.35	9618.75	418.48	14.98	12.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	52.58	9671.33	508.03	20.83	12.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	49.34	9720.67	476.83	24.68	12.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.74	135.28	9855.94	1312.35	32.93	11.78	0.0	-3.74e-04	0.0	0.0	0.0	0.0	0.0
3.73	182.64	1.004e+04	1773.13	20.83	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.72	296.02	1.033e+04	2881.86	18.07	22.12	0.0	-0.67	0.0	0.0	0.0	0.0	0.0
3.72	68.94	1.040e+04	672.44	18.43	11.42	0.0	-1.45e-05	0.0	0.0	0.0	0.0	0.0
3.72	51.40	1.045e+04	501.54	11.88	11.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.71	42.75	1.050e+04	417.62	14.98	11.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	51.79	1.055e+04	507.01	20.83	11.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	48.58	1.060e+04	475.78	24.68	11.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	59.20	1.066e+04	581.28	29.78	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	180.30	1.084e+04	1771.39	20.83	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	65.77	1.090e+04	646.49	35.68	10.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	51.83	1.096e+04	510.10	7.72	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	134.32	1.109e+04	1322.28	23.78	25.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	130.44	1.122e+04	1285.10	17.88	25.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	61.87	1.128e+04	610.40	16.04	10.69	0.0	-2.15e-05	0.0	0.0	0.0	0.0	0.0
3.67	50.73	1.133e+04	500.76	11.88	10.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	42.15	1.137e+04	416.75	14.98	10.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	51.01	1.143e+04	505.99	20.83	10.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	46.44	1.147e+04	460.91	24.68	10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	17.49	1.149e+04	173.75	41.88	10.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	58.41	1.155e+04	580.42	29.78	10.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	59.51	1.161e+04	591.58	35.68	10.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	177.96	1.179e+04	1769.64	20.83	26.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.64	51.19	1.184e+04	509.39	7.72	10.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	37.54	1.187e+04	374.61	-0.22	9.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	50.07	1.192e+04	499.97	11.88	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	137.66	1.206e+04	1376.25	20.91	24.50	0.0	-0.84	0.0	0.0	0.0	0.0	0.0
3.62	123.89	1.219e+04	1239.56	23.78	26.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.62	41.55	1.223e+04	415.89	14.98	9.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	87.44	1.231e+04	878.87	22.67	9.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	58.76	1.237e+04	590.83	35.68	9.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	57.62	1.243e+04	579.57	29.78	9.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	50.55	1.248e+04	508.67	7.72	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	198.52	1.268e+04	1998.36	23.26	25.03	0.0	-0.88	0.0	0.0	0.0	0.0	0.0
3.59	37.11	1.272e+04	374.61	-0.22	9.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	193.20	1.291e+04	1951.87	20.77	27.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	56.29	1.297e+04	568.73	11.88	9.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.58	40.96	1.301e+04	415.03	14.98	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.57	27.47	1.304e+04	279.28	20.83	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.56	67.00	1.310e+04	681.57	35.68	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	24.75	1.313e+04	251.80	24.68	8.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	49.91	1.318e+04	507.95	7.72	8.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	28.21	1.321e+04	287.16	41.88	8.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	56.83	1.326e+04	578.71	29.78	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	173.29	1.344e+04	1766.16	20.83	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.55	194.55	1.363e+04	1986.39	20.83	27.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.55	35.88	1.367e+04	366.54	-0.22	8.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.53	90.51	1.376e+04	928.63	13.26	8.22	0.0	-1.27e-04	0.0	0.0	0.0	0.0	0.0
3.52	27.15	1.378e+04	279.28	20.83	8.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	23.64	1.381e+04	243.27	24.68	8.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	49.27	1.386e+04	507.23	7.72	8.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	27.89	1.388e+04	287.16	41.88	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	66.02	1.395e+04	680.79	29.78	7.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	337.89	1.429e+04	3487.06	20.78	28.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	85.06	1.437e+04	878.63	21.03	7.80	0.0	-2.50e-04	0.0	0.0	0.0	0.0	0.0
3.50	37.76	1.441e+04	391.15	11.88	7.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	162.55	1.457e+04	1688.29	27.38	22.45	0.0	-1.08	0.0	0.0	0.0	0.0	0.0
3.49	39.78	1.461e+04	413.30	14.98	7.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	36.59	1.465e+04	380.36	11.88	29.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	75.90	1.473e+04	789.86	20.83	29.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	26.83	1.475e+04	279.28	20.83	7.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	23.36	1.478e+04	243.27	24.68	7.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	76.21	1.485e+04	793.68	20.08	7.30	0.0	-3.69e-04	0.0	0.0	0.0	0.0	0.0
3.48	52.07	1.490e+04	543.17	20.83	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	31.99	1.494e+04	334.25	-0.22	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	37.36	1.497e+04	390.66	11.88	7.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.46	54.54	1.503e+04	572.17	29.78	6.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	75.10	1.510e+04	788.32	20.83	29.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	184.08	1.529e+04	1933.00	20.91	29.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	39.19	1.533e+04	412.43	14.98	6.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	26.22	1.535e+04	276.19	20.83	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	97.77	1.545e+04	1030.18	21.10	6.59	0.0	-4.00e-04	0.0	0.0	0.0	0.0	0.0
3.44	50.97	1.550e+04	537.48	20.83	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	60.95	1.556e+04	642.94	35.68	6.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	29.13	1.559e+04	307.45	-0.22	6.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	36.95	1.563e+04	390.17	11.88	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	34.17	1.566e+04	361.35	29.78	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.42	67.68	1.573e+04	716.49	20.83	30.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.41	126.05	1.586e+04	1338.37	20.83	30.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.40	496.84	1.635e+04	5297.49	20.62	16.75	0.0	-1.24	20.15	16.20	0.749	7.1311e-04	0.045
3.05	1408.63	1.776e+04	1.674e+04	23.45	16.33	0.0	-1.31	20.94	11.29	0.400	0.162	0.529
2.55	1.23	1.776e+04	17.46	40.58	16.51	0.0	-0.09	0.0	0.0	0.0	0.0	0.0
2.49	2.01	1.777e+04	29.22	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.45	1.56	1.777e+04	23.12	40.58	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.43	1.96	1.777e+04	29.23	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.37	1.91	1.777e+04	29.22	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.31	1.86	1.777e+04	29.23	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.27	2.91	1.778e+04	46.53	41.63	30.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	1.82	1.778e+04	29.18	41.88	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	1.82	1.778e+04	29.18	41.88	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.25	142.72	1.792e+04	2299.58	13.54	25.06	0.0	-1.11	1.11	30.28	0.156	1.958	0.941
2.24	4.26	1.793e+04	68.81	20.83	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	2.13	1.793e+04	34.40	41.88	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	2.22	1.793e+04	35.97	-0.60	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	4.24	1.793e+04	68.81	20.83	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	2.12	1.794e+04	34.40	41.88	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	4.23	1.794e+04	68.81	20.83	26.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	4.32	1.795e+04	70.38	20.59	22.09	0.0	-0.41	0.0	0.0	0.0	0.0	0.0
2.23	2.11	1.795e+04	34.40	-0.22	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	4.22	1.795e+04	68.81	20.83	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	2.11	1.795e+04	34.40	41.88	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	5.79	1.796e+04	94.72	11.49	24.21	0.0	-0.49	0.0	0.0	0.0	0.0	0.0
2.22	6.00	1.797e+04	98.18	25.27	25.68	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
2.21	2.10	1.797e+04	34.40	41.88	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	4.19	1.797e+04	68.81	20.83	23.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	4.28	1.798e+04	70.38	21.43	20.94	0.0	-0.29	0.0	0.0	0.0	0.0	0.0
2.20	4.18	1.798e+04	68.81	20.83	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	2.09	1.798e+04	34.40	-0.22	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	2.09	1.798e+04	34.40	41.88	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	4.17	1.799e+04	68.81	20.83	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
2.19	2.18	1.799e+04	35.97	2.69	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	2.08	1.799e+04	34.40	41.88	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	4.15	1.800e+04	68.81	20.83	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	7.78	1.800e+04	129.12	20.27	23.20	0.0	-0.46	0.0	0.0	0.0	0.0	0.0
2.18	5.84	1.801e+04	97.09	25.15	22.67	0.0	-0.33	0.0	0.0	0.0	0.0	0.0
2.18	2.07	1.801e+04	34.40	41.88	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	27.73	1.804e+04	462.14	19.27	20.04	0.0	-0.04	20.83	19.97	0.078	0.687	0.042
2.17	2.16	1.804e+04	35.97	4.33	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.17	1.88	1.804e+04	31.42	41.88	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	2.14	1.805e+04	35.97	5.16	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	3.27	1.805e+04	54.85	14.98	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.15	447.12	1.850e+04	7539.18	22.83	13.78	0.0	-1.04	22.55	11.04	0.170	0.024	0.497
2.05	17.20	1.851e+04	304.23	3.74	5.99	0.0	-0.06	-0.18	5.90	0.052	6.800	0.099
1.30	388.22	1.890e+04	1.083e+04	20.77	17.74	0.0	-1.24	31.02	16.81	0.675	0.866	0.039
0.45	91.41	1.899e+04	7364.29	20.64	16.63	0.0	-1.24	20.46	11.88	0.520	0.011	0.458
0.33	8.17	1.900e+04	910.89	20.91	23.20	0.0	-0.43	20.83	20.06	0.335	0.028	0.787
Risulta	1.900e+04		1.976e+05									

CDC	Tipo	Sigla Id	Note
15	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 1.229 sec.
			ordinata spettro Se(T1): 0.096

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	daN	daN	daN	m	m	m	m	m	m			
5.40	1913.61	1913.61	1.285e+04	20.67	19.99	0.0	0.0	20.63	19.99	0.008	0.004	1.8398e-04
5.34	62.07	1975.68	421.07	15.49	19.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.26	109.31	2084.99	753.74	18.67	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.19	88.16	2173.15	616.26	15.45	19.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.11	105.70	2278.85	749.22	18.66	18.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.03	57.62	2336.47	415.41	15.42	18.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	269.93	2606.40	1957.11	20.83	18.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97	114.03	2720.43	831.45	16.26	18.09	0.0	0.0	15.79	18.09	4.9874e-04	0.027	0.0
4.94	23.51	2743.94	172.42	40.58	17.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.93	34.14	2778.08	251.00	35.68	17.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.91	79.05	2857.13	583.78	2.75	17.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	108.66	2965.78	829.09	2.76	17.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	34.13	2999.91	260.60	40.58	17.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	47.71	3047.62	364.48	35.68	17.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.60	447.36	3494.98	3525.59	21.84	17.28	0.0	0.18	24.62	18.67	0.356	0.158	0.192
4.59	115.98	3610.96	915.37	2.96	16.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.56	32.80	3643.76	260.83	35.68	16.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.55	19.69	3663.46	156.82	40.58	16.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.43	430.64	4094.10	3520.46	18.60	17.65	0.0	1.24	25.46	18.10	1.381	0.236	0.026
4.40	28.85	4122.95	237.56	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.39	71.93	4194.87	593.31	5.98	15.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.37	51.42	4246.30	426.62	35.68	15.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.28	43.82	4290.12	371.52	-1.42	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.25	27.78	4317.90	236.88	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.20	295.57	4613.46	2551.18	17.37	14.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.18	48.73	4662.19	422.62	35.68	14.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.12	42.21	4704.40	371.63	-1.42	14.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.10	26.82	4731.22	237.08	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	398.25	5129.47	3609.37	20.64	19.99	0.0	0.0	20.70	19.99	0.001	0.007	9.5900e-05
4.00	65.57	5195.04	594.53	5.98	13.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.99	46.05	5241.09	418.45	35.68	13.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	196.04	5437.13	1794.94	17.85	20.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	40.57	5477.70	371.52	-1.42	13.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	65.30	5543.00	598.29	29.78	20.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	194.27	5737.27	1780.38	20.85	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.95	25.64	5762.91	235.31	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.93	2.66	5765.57	24.54	35.68	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	192.06	5957.64	1780.10	20.83	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	280.60	6238.24	2601.56	20.76	21.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.87	192.32	6430.55	1802.89	21.03	22.29	0.0	0.18	0.0	0.0	0.0	0.0	0.0
3.86	274.62	6705.17	2578.63	20.83	22.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.82	187.34	6892.52	1776.62	20.83	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.81	129.95	7022.47	1235.06	20.83	23.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.81	129.85	7152.31	1235.00	20.83	23.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.80	1730.32	8882.64	1.651e+04	20.37	13.23	0.0	0.34	18.24	14.65	2.569	0.113	0.091
3.79	47.13	8929.76	451.26	35.68	12.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.79	43.61	8973.37	417.65	29.78	12.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.78	234.98	9208.36	2254.54	18.04	21.49	0.0	0.57	0.0	0.0	0.0	0.0	0.0
3.77	245.47	9453.83	2361.97	20.83	24.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	69.51	9523.33	670.47	18.36	12.15	0.0	7.00e-06	0.0	0.0	0.0	0.0	0.0
3.76	52.07	9575.40	502.33	11.88	12.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	43.35	9618.75	418.48	14.98	12.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	52.58	9671.33	508.03	20.83	12.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	49.34	9720.67	476.83	24.68	12.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.74	135.28	9855.94	1312.35	32.93	11.78	0.0	3.74e-04	0.0	0.0	0.0	0.0	0.0
3.73	182.64	1.004e+04	1773.13	20.83	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.72	296.02	1.033e+04	2881.86	18.07	22.12	0.0	0.67	0.0	0.0	0.0	0.0	0.0
3.72	68.94	1.040e+04	672.44	18.43	11.42	0.0	1.45e-05	0.0	0.0	0.0	0.0	0.0
3.72	51.40	1.045e+04	501.54	11.88	11.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.71	42.75	1.050e+04	417.62	14.98	11.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	51.79	1.055e+04	507.01	20.83	11.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	48.58	1.060e+04	475.78	24.68	11.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	59.20	1.066e+04	581.28	29.78	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	180.30	1.084e+04	1771.39	20.83	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	65.77	1.090e+04	646.49	35.68	10.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	51.83	1.096e+04	510.10	7.72	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	134.32	1.109e+04	1322.28	23.78	25.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	130.44	1.122e+04	1285.10	17.88	25.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	61.87	1.128e+04	610.40	16.04	10.69	0.0	2.15e-05	0.0	0.0	0.0	0.0	0.0
3.67	50.73	1.133e+04	500.76	11.88	10.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	42.15	1.137e+04	416.75	14.98	10.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	51.01	1.143e+04	505.99	20.83	10.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	46.44	1.147e+04	460.91	24.68	10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	17.49	1.149e+04	173.75	41.88	10.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	58.41	1.155e+04	580.42	29.78	10.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	59.51	1.161e+04	591.58	35.68	10.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	177.96	1.179e+04	1769.64	20.83	26.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.64	51.19	1.184e+04	509.39	7.72	10.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	37.54	1.187e+04	374.61	-0.22	9.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	50.07	1.192e+04	499.97	11.88	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	137.66	1.206e+04	1376.25	20.91	24.50	0.0	0.84	0.0	0.0	0.0	0.0	0.0
3.62	123.89	1.219e+04	1239.56	23.78	26.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.62	41.55	1.223e+04	415.89	14.98	9.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	87.44	1.231e+04	878.87	22.67	9.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	58.76	1.237e+04	590.83	35.68	9.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	57.62	1.243e+04	579.57	29.78	9.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	50.55	1.248e+04	508.67	7.72	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	198.52	1.268e+04	1998.36	23.26	25.03	0.0	0.88	0.0	0.0	0.0	0.0	0.0
3.59	37.11	1.272e+04	374.61	-0.22	9.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	193.20	1.291e+04	1951.87	20.77	27.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	56.29	1.297e+04	568.73	11.88	9.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.58	40.96	1.301e+04	415.03	14.98	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.57	27.47	1.304e+04	279.28	20.83	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	67.00	1.310e+04	681.57	35.68	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	24.75	1.313e+04	251.80	24.68	8.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	49.91	1.318e+04	507.95	7.72	8.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	28.21	1.321e+04	287.16	41.88	8.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	56.83	1.326e+04	578.71	29.78	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	173.29	1.344e+04	1766.16	20.83	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.55	194.55	1.363e+04	1986.39	20.83	27.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.55	35.88	1.367e+04	366.54	-0.22	8.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.53	90.51	1.376e+04	928.63	13.26	8.22	0.0	1.27e-04	0.0	0.0	0.0	0.0	0.0
3.52	27.15	1.378e+04	279.28	20.83	8.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	23.64	1.381e+04	243.27	24.68	8.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	49.27	1.386e+04	507.23	7.72	8.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	27.89	1.388e+04	287.16	41.88	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.52	66.02	1.395e+04	680.79	29.78	7.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	337.89	1.429e+04	3487.06	20.78	28.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	85.06	1.437e+04	878.63	21.03	7.80	0.0	2.50e-04	0.0	0.0	0.0	0.0	0.0
3.50	37.76	1.441e+04	391.15	11.88	7.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	162.55	1.457e+04	1688.29	27.38	22.45	0.0	1.08	0.0	0.0	0.0	0.0	0.0
3.49	39.78	1.461e+04	413.30	14.98	7.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	36.59	1.465e+04	380.36	11.88	29.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	75.90	1.473e+04	789.86	20.83	29.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	26.83	1.475e+04	279.28	20.83	7.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	23.36	1.478e+04	243.27	24.68	7.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	76.21	1.485e+04	793.68	20.08	7.30	0.0	3.69e-04	0.0	0.0	0.0	0.0	0.0
3.48	52.07	1.490e+04	543.17	20.83	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	31.99	1.494e+04	334.25	-0.22	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	37.36	1.497e+04	390.66	11.88	7.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.46	54.54	1.503e+04	572.17	29.78	6.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	75.10	1.510e+04	788.32	20.83	29.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	184.08	1.529e+04	1933.00	20.91	29.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	39.19	1.533e+04	412.43	14.98	6.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	26.22	1.535e+04	276.19	20.83	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	97.77	1.545e+04	1030.18	21.10	6.59	0.0	4.00e-04	0.0	0.0	0.0	0.0	0.0
3.44	50.97	1.550e+04	537.48	20.83	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	60.95	1.556e+04	642.94	35.68	6.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	29.13	1.559e+04	307.45	-0.22	6.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	36.95	1.563e+04	390.17	11.88	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	34.17	1.566e+04	361.35	29.78	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.42	67.68	1.573e+04	716.49	20.83	30.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.41	126.05	1.586e+04	1338.37	20.83	30.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.40	496.84	1.635e+04	5297.49	20.62	16.75	0.0	1.24	20.15	16.20	0.749	7.1311e-04	0.045
3.05	1408.63	1.776e+04	1.674e+04	23.45	16.33	0.0	1.31	20.94	11.29	0.400	0.162	0.529
2.55	1.23	1.776e+04	17.46	40.58	16.51	0.0	0.09	0.0	0.0	0.0	0.0	0.0
2.49	2.01	1.777e+04	29.22	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.45	1.56	1.777e+04	23.12	40.58	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.43	1.96	1.777e+04	29.23	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.37	1.91	1.777e+04	29.22	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.31	1.86	1.777e+04	29.23	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.27	2.91	1.778e+04	46.53	41.63	30.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	1.82	1.778e+04	29.18	41.88	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	1.82	1.778e+04	29.18	41.88	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.25	142.72	1.792e+04	2299.58	13.54	25.06	0.0	1.11	1.11	30.28	0.156	1.958	0.941
2.24	4.26	1.793e+04	68.81	20.83	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	2.13	1.793e+04	34.40	41.88	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	2.22	1.793e+04	35.97	-0.60	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	4.24	1.793e+04	68.81	20.83	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	2.12	1.794e+04	34.40	41.88	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	4.23	1.794e+04	68.81	20.83	26.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	4.32	1.795e+04	70.38	20.59	22.09	0.0	0.41	0.0	0.0	0.0	0.0	0.0
2.23	2.11	1.795e+04	34.40	-0.22	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	4.22	1.795e+04	68.81	20.83	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	2.11	1.795e+04	34.40	41.88	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	5.79	1.796e+04	94.72	11.49	24.21	0.0	0.49	0.0	0.0	0.0	0.0	0.0
2.22	6.00	1.797e+04	98.18	25.27	25.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0
2.21	2.10	1.797e+04	34.40	41.88	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	4.19	1.797e+04	68.81	20.83	23.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	4.28	1.798e+04	70.38	21.43	20.94	0.0	0.29	0.0	0.0	0.0	0.0	0.0
2.20	4.18	1.798e+04	68.81	20.83	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	2.09	1.798e+04	34.40	-0.22	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	2.09	1.798e+04	34.40	41.88	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	4.17	1.799e+04	68.81	20.83	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	2.18	1.799e+04	35.97	2.69	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	2.08	1.799e+04	34.40	41.88	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	4.15	1.800e+04	68.81	20.83	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	7.78	1.800e+04	129.12	20.27	23.20	0.0	0.46	0.0	0.0	0.0	0.0	0.0
2.18	5.84	1.801e+04	97.09	25.15	22.67	0.0	0.33	0.0	0.0	0.0	0.0	0.0
2.18	2.07	1.801e+04	34.40	41.88	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	27.73	1.804e+04	462.14	19.27	20.04	0.0	0.04	20.83	19.97	0.078	0.687	0.042
2.17	2.16	1.804e+04	35.97	4.33	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.17	1.88	1.804e+04	31.42	41.88	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	2.14	1.805e+04	35.97	5.16	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	3.27	1.805e+04	54.85	14.98	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.15	447.12	1.850e+04	7539.18	22.83	13.78	0.0	1.04	22.55	11.04	0.170	0.024	0.497
2.05	17.20	1.851e+04	304.23	3.74	5.99	0.0	0.06	-0.18	5.90	0.052	6.800	0.099

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
1.30	388.22	1.890e+04	1.083e+04	20.77	17.74	0.0	1.24	31.02	16.81	0.675	0.866	0.039
0.45	91.41	1.899e+04	7364.29	20.64	16.63	0.0	1.24	20.46	11.88	0.520	0.011	0.458
0.33	8.17	1.900e+04	910.89	20.91	23.20	0.0	0.43	20.83	20.06	0.335	0.028	0.787
Risulta	1.900e+04		1.976e+05									

CDC	Tipo	Sigla Id	Note
16	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.422 sec.
			ordinata spettro Se(T1): 0.265

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	daN	daN	daN	m	m	m	m	m	m			
5.40	5273.29	5273.29	1.285e+04	20.67	19.99	2.10	0.0	20.63	19.99	0.008	0.004	1.8398e-04
5.34	171.04	5444.33	421.07	15.49	19.74	2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.26	301.21	5745.54	753.74	18.67	19.35	1.49	0.0	0.0	0.0	0.0	0.0	0.0
5.19	242.94	5988.48	616.26	15.45	19.04	2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.11	291.28	6279.76	749.22	18.66	18.72	1.49	0.0	0.0	0.0	0.0	0.0	0.0
5.03	158.78	6438.54	415.41	15.42	18.34	2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.00	743.84	7182.38	1957.11	20.83	18.21	1.19	0.0	0.0	0.0	0.0	0.0	0.0
4.97	314.23	7496.61	831.45	16.26	18.09	2.10	0.0	15.79	18.09	4.9874e-04	0.027	0.0
4.94	64.78	7561.38	172.42	40.58	17.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.93	94.09	7655.47	251.00	35.68	17.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.91	217.83	7873.30	583.78	2.75	17.81	0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.75	299.42	8172.72	829.09	2.76	17.11	0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.75	94.05	8266.76	260.60	40.58	17.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	131.47	8398.23	364.48	35.68	17.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.60	1232.77	9631.00	3525.59	21.84	17.28	2.10	0.0	24.62	18.67	0.356	0.158	0.192
4.59	319.60	9950.60	915.37	2.96	16.41	0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.56	90.40	1.004e+04	260.83	35.68	16.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.55	54.27	1.010e+04	156.82	40.58	16.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.43	1186.71	1.128e+04	3520.46	18.60	17.65	2.17	0.0	25.46	18.10	1.381	0.236	0.026
4.40	79.49	1.136e+04	237.56	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.39	198.21	1.156e+04	593.31	5.98	15.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.37	141.70	1.170e+04	426.62	35.68	15.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.28	120.75	1.182e+04	371.52	-1.42	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.25	76.56	1.190e+04	236.88	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.20	814.48	1.271e+04	2551.18	17.37	14.66	1.34	0.0	0.0	0.0	0.0	0.0	0.0
4.18	134.27	1.285e+04	422.62	35.68	14.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.12	116.31	1.296e+04	371.63	-1.42	14.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.10	73.91	1.304e+04	237.08	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	1097.45	1.414e+04	3609.37	20.64	19.99	2.17	0.0	20.70	19.99	0.001	0.007	9.5900e-05
4.00	180.69	1.432e+04	594.53	5.98	13.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.99	126.91	1.444e+04	418.45	35.68	13.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	540.22	1.498e+04	1794.94	17.85	20.71	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.96	111.79	1.509e+04	371.52	-1.42	13.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	179.94	1.527e+04	598.29	29.78	20.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	535.34	1.581e+04	1780.38	20.85	20.77	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.95	70.66	1.588e+04	235.31	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.93	7.34	1.589e+04	24.54	35.68	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	529.26	1.642e+04	1780.10	20.83	21.56	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.91	773.24	1.719e+04	2601.56	20.76	21.58	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.87	529.96	1.772e+04	1802.89	21.03	22.29	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.86	756.76	1.848e+04	2578.63	20.83	22.46	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.82	516.26	1.899e+04	1776.62	20.83	23.13	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.81	358.09	1.935e+04	1235.06	20.83	23.28	0.90	0.0	0.0	0.0	0.0	0.0	0.0
3.81	357.81	1.971e+04	1235.00	20.83	23.33	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.80	4768.20	2.448e+04	1.651e+04	20.37	13.23	2.17	0.0	18.24	14.65	2.569	0.113	0.091
3.79	129.87	2.461e+04	451.26	35.68	12.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.79	120.17	2.473e+04	417.65	29.78	12.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.78	647.54	2.538e+04	2254.54	18.04	21.49	2.10	0.0	0.0	0.0	0.0	0.0	0.0



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.77	676.44	2.605e+04	2361.97	20.83	24.11	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.76	191.54	2.624e+04	670.47	18.36	12.15	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.76	143.48	2.639e+04	502.33	11.88	12.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	119.47	2.651e+04	418.48	14.98	12.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	144.88	2.665e+04	508.03	20.83	12.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	135.95	2.679e+04	476.83	24.68	12.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.74	372.78	2.716e+04	1312.35	32.93	11.78	0.29	0.0	0.0	0.0	0.0	0.0	0.0
3.73	503.31	2.766e+04	1773.13	20.83	24.70	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.72	815.72	2.848e+04	2881.86	18.07	22.12	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.72	189.96	2.867e+04	672.44	18.43	11.42	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.72	141.64	2.881e+04	501.54	11.88	11.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.71	117.81	2.893e+04	417.62	14.98	11.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	142.73	2.907e+04	507.01	20.83	11.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	133.88	2.920e+04	475.78	24.68	11.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	163.15	2.937e+04	581.28	29.78	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	496.85	2.986e+04	1771.39	20.83	25.49	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.69	181.24	3.005e+04	646.49	35.68	10.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	142.83	3.019e+04	510.10	7.72	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	370.13	3.056e+04	1322.28	23.78	25.62	1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.68	359.45	3.092e+04	1285.10	17.88	25.67	1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.67	170.50	3.109e+04	610.40	16.04	10.69	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.67	139.80	3.123e+04	500.76	11.88	10.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	116.16	3.134e+04	416.75	14.98	10.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	140.58	3.149e+04	505.99	20.83	10.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	127.98	3.161e+04	460.91	24.68	10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	48.21	3.166e+04	173.75	41.88	10.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	160.96	3.182e+04	580.42	29.78	10.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	163.98	3.199e+04	591.58	35.68	10.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	490.40	3.248e+04	1769.64	20.83	26.28	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.64	141.06	3.262e+04	509.39	7.72	10.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	103.45	3.272e+04	374.61	-0.22	9.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	137.96	3.286e+04	499.97	11.88	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	379.34	3.324e+04	1376.25	20.91	24.50	1.79	0.0	0.0	0.0	0.0	0.0	0.0
3.62	341.41	3.358e+04	1239.56	23.78	26.67	1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.62	114.51	3.369e+04	415.89	14.98	9.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	240.94	3.394e+04	878.87	22.67	9.50	0.19	0.0	0.0	0.0	0.0	0.0	0.0
3.61	161.91	3.410e+04	590.83	35.68	9.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	158.77	3.426e+04	579.57	29.78	9.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	139.29	3.440e+04	508.67	7.72	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	547.05	3.494e+04	1998.36	23.26	25.03	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.59	102.25	3.504e+04	374.61	-0.22	9.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	532.40	3.558e+04	1951.87	20.77	27.29	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.59	155.10	3.573e+04	568.73	11.88	9.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.58	112.87	3.585e+04	415.03	14.98	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.57	75.69	3.592e+04	279.28	20.83	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	184.63	3.611e+04	681.57	35.68	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	68.20	3.617e+04	251.80	24.68	8.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	137.53	3.631e+04	507.95	7.72	8.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	77.73	3.639e+04	287.16	41.88	8.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	156.59	3.655e+04	578.71	29.78	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	477.54	3.702e+04	1766.16	20.83	27.85	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.55	536.10	3.756e+04	1986.39	20.83	27.96	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.55	98.89	3.766e+04	366.54	-0.22	8.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.53	249.42	3.791e+04	928.63	13.26	8.22	0.15	0.0	0.0	0.0	0.0	0.0	0.0
3.52	74.81	3.798e+04	279.28	20.83	8.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	65.13	3.805e+04	243.27	24.68	8.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	135.78	3.818e+04	507.23	7.72	8.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	76.86	3.826e+04	287.16	41.88	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	181.93	3.844e+04	680.79	29.78	7.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	931.10	3.937e+04	3487.06	20.78	28.64	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.51	234.38	3.961e+04	878.63	21.03	7.80	1.79	0.0	0.0	0.0	0.0	0.0	0.0
3.50	104.07	3.971e+04	391.15	11.88	7.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	447.93	4.016e+04	1688.29	27.38	22.45	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.49	109.61	4.027e+04	413.30	14.98	7.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	100.83	4.037e+04	380.36	11.88	29.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	209.14	4.058e+04	789.86	20.83	29.16	0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.48	73.93	4.065e+04	279.28	20.83	7.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	64.38	4.072e+04	243.27	24.68	7.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	210.00	4.093e+04	793.68	20.08	7.30	1.71	0.0	0.0	0.0	0.0	0.0	0.0
3.48	143.48	4.107e+04	543.17	20.83	29.30	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.47	88.14	4.116e+04	334.25	-0.22	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.47	102.95	4.126e+04	390.66	11.88	7.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.46	150.29	4.141e+04	572.17	29.78	6.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	206.96	4.162e+04	788.32	20.83	29.68	0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.45	507.25	4.213e+04	1933.00	20.91	29.71	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.44	107.99	4.223e+04	412.43	14.98	6.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	72.25	4.231e+04	276.19	20.83	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	269.42	4.258e+04	1030.18	21.10	6.59	1.71	0.0	0.0	0.0	0.0	0.0	0.0
3.44	140.44	4.272e+04	537.48	20.83	29.97	2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.44	167.97	4.288e+04	642.94	35.68	6.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	80.27	4.296e+04	307.45	-0.22	6.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	101.83	4.307e+04	390.17	11.88	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	94.15	4.316e+04	361.35	29.78	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.42	186.50	4.335e+04	716.49	20.83	30.21	0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.41	347.34	4.369e+04	1338.37	20.83	30.38	1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.40	1369.12	4.506e+04	5297.49	20.62	16.75	2.10	0.0	20.15	16.20	0.749	7.1311e-04	0.045
3.05	3881.72	4.895e+04	1.674e+04	23.45	16.33	2.25	0.0	20.94	11.29	0.400	0.162	0.529
2.55	3.38	4.895e+04	17.46	40.58	16.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.49	5.53	4.895e+04	29.22	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.45	4.30	4.896e+04	23.12	40.58	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.43	5.40	4.896e+04	29.23	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.37	5.26	4.897e+04	29.22	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.31	5.13	4.897e+04	29.23	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.27	8.02	4.898e+04	46.53	41.63	30.64	0.04	0.0	0.0	0.0	0.0	0.0	0.0
2.26	5.02	4.899e+04	29.18	41.88	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	5.00	4.899e+04	29.18	41.88	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.25	393.30	4.939e+04	2299.58	13.54	25.06	2.16	0.0	1.11	30.28	0.156	1.958	0.941
2.24	11.73	4.940e+04	68.81	20.83	27.85	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.86	4.940e+04	34.40	41.88	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	6.12	4.941e+04	35.97	-0.60	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	11.70	4.942e+04	68.81	20.83	27.06	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.85	4.943e+04	34.40	41.88	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	11.66	4.944e+04	68.81	20.83	26.28	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.23	11.92	4.945e+04	70.38	20.59	22.09	2.08	0.0	0.0	0.0	0.0	0.0	0.0
2.23	5.82	4.946e+04	34.40	-0.22	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	11.63	4.947e+04	68.81	20.83	25.49	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.22	5.81	4.947e+04	34.40	41.88	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	15.96	4.949e+04	94.72	11.49	24.21	1.44	0.0	0.0	0.0	0.0	0.0	0.0
2.22	16.54	4.951e+04	98.18	25.27	25.68	0.88	0.0	0.0	0.0	0.0	0.0	0.0
2.21	5.79	4.951e+04	34.40	41.88	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	11.55	4.952e+04	68.81	20.83	23.92	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.21	11.80	4.954e+04	70.38	21.43	20.94	2.00	0.0	0.0	0.0	0.0	0.0	0.0
2.20	11.52	4.955e+04	68.81	20.83	23.13	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.20	5.75	4.955e+04	34.40	-0.22	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	5.75	4.956e+04	34.40	41.88	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	11.48	4.957e+04	68.81	20.83	22.34	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.19	6.00	4.958e+04	35.97	2.69	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	5.73	4.958e+04	34.40	41.88	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	11.45	4.959e+04	68.81	20.83	21.56	0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.18	21.43	4.961e+04	129.12	20.27	23.20	1.92	0.0	0.0	0.0	0.0	0.0	0.0
2.18	16.10	4.963e+04	97.09	25.15	22.67	0.88	0.0	0.0	0.0	0.0	0.0	0.0
2.18	5.69	4.964e+04	34.40	41.88	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	76.41	4.971e+04	462.14	19.27	20.04	1.32	0.0	20.83	19.97	0.078	0.687	0.042
2.17	5.94	4.972e+04	35.97	4.33	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.17	5.18	4.972e+04	31.42	41.88	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	5.91	4.973e+04	35.97	5.16	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	9.00	4.974e+04	54.85	14.98	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.15	1232.12	5.097e+04	7539.18	22.83	13.78	2.17	0.0	22.55	11.04	0.170	0.024	0.497
2.05	47.41	5.102e+04	304.23	3.74	5.99	0.44	0.0	-0.18	5.90	0.052	6.800	0.099
1.30	1069.80	5.209e+04	1.083e+04	20.77	17.74	2.17	0.0	31.02	16.81	0.675	0.866	0.039
0.45	251.90	5.234e+04	7364.29	20.64	16.63	2.17	0.0	20.46	11.88	0.520	0.011	0.458
0.33	22.50	5.236e+04	910.89	20.91	23.20	0.72	0.0	20.83	20.06	0.335	0.028	0.787
Risulta	5.236e+04		1.976e+05									

CDC	Tipo	Sigla Id	Note
17	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L. angolo di ingresso:90.00

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



CDC	Tipo	Sigla Id	Note
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.422 sec.
			ordinata spettro Se(T1): 0.265

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	daN	daN	daN	m	m	m	m	m	m			
5.40	5273.29	5273.29	1.285e+04	20.67	19.99	-2.10	0.0	20.63	19.99	0.008	0.004	1.8398e-04
5.34	171.04	5444.33	421.07	15.49	19.74	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.26	301.21	5745.54	753.74	18.67	19.35	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
5.19	242.94	5988.48	616.26	15.45	19.04	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.11	291.28	6279.76	749.22	18.66	18.72	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
5.03	158.78	6438.54	415.41	15.42	18.34	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
5.00	743.84	7182.38	1957.11	20.83	18.21	-1.19	0.0	0.0	0.0	0.0	0.0	0.0
4.97	314.23	7496.61	831.45	16.26	18.09	-2.10	0.0	15.79	18.09	4.9874e-04	0.027	0.0
4.94	64.78	7561.38	172.42	40.58	17.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.93	94.09	7655.47	251.00	35.68	17.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.91	217.83	7873.30	583.78	2.75	17.81	-0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.75	299.42	8172.72	829.09	2.76	17.11	-0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.75	94.05	8266.76	260.60	40.58	17.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.75	131.47	8398.23	364.48	35.68	17.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.60	1232.77	9631.00	3525.59	21.84	17.28	-2.10	0.0	24.62	18.67	0.356	0.158	0.192
4.59	319.60	9950.60	915.37	2.96	16.41	-0.37	0.0	0.0	0.0	0.0	0.0	0.0
4.56	90.40	1.004e+04	260.83	35.68	16.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.55	54.27	1.010e+04	156.82	40.58	16.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.43	1186.71	1.128e+04	3520.46	18.60	17.65	-2.17	0.0	25.46	18.10	1.381	0.236	0.026
4.40	79.49	1.136e+04	237.56	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.39	198.21	1.156e+04	593.31	5.98	15.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.37	141.70	1.170e+04	426.62	35.68	15.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.28	120.75	1.182e+04	371.52	-1.42	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.25	76.56	1.190e+04	236.88	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.20	814.48	1.271e+04	2551.18	17.37	14.66	-1.34	0.0	0.0	0.0	0.0	0.0	0.0
4.18	134.27	1.285e+04	422.62	35.68	14.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.12	116.31	1.296e+04	371.63	-1.42	14.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.10	73.91	1.304e+04	237.08	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	1097.45	1.414e+04	3609.37	20.64	19.99	-2.17	0.0	20.70	19.99	0.001	0.007	9.5900e-05
4.00	180.69	1.432e+04	594.53	5.98	13.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.99	126.91	1.444e+04	418.45	35.68	13.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	540.22	1.498e+04	1794.94	17.85	20.71	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.96	111.79	1.509e+04	371.52	-1.42	13.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	179.94	1.527e+04	598.29	29.78	20.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.96	535.34	1.581e+04	1780.38	20.85	20.77	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.95	70.66	1.588e+04	235.31	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.93	7.34	1.589e+04	24.54	35.68	19.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.91	529.26	1.642e+04	1780.10	20.83	21.56	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.91	773.24	1.719e+04	2601.56	20.76	21.58	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.87	529.96	1.772e+04	1802.89	21.03	22.29	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.86	756.76	1.848e+04	2578.63	20.83	22.46	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.82	516.26	1.899e+04	1776.62	20.83	23.13	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.81	358.09	1.935e+04	1235.06	20.83	23.28	-0.90	0.0	0.0	0.0	0.0	0.0	0.0
3.81	357.81	1.971e+04	1235.00	20.83	23.33	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.80	4768.20	2.448e+04	1.651e+04	20.37	13.23	-2.17	0.0	18.24	14.65	2.569	0.113	0.091
3.79	129.87	2.461e+04	451.26	35.68	12.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.79	120.17	2.473e+04	417.65	29.78	12.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.78	647.54	2.538e+04	2254.54	18.04	21.49	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.77	676.44	2.605e+04	2361.97	20.83	24.11	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.76	191.54	2.624e+04	670.47	18.36	12.15	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.76	143.48	2.639e+04	502.33	11.88	12.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.76	119.47	2.651e+04	418.48	14.98	12.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	144.88	2.665e+04	508.03	20.83	12.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.75	135.95	2.679e+04	476.83	24.68	12.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.74	372.78	2.716e+04	1312.35	32.93	11.78	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
3.73	503.31	2.766e+04	1773.13	20.83	24.70	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.72	815.72	2.848e+04	2881.86	18.07	22.12	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.72	189.96	2.867e+04	672.44	18.43	11.42	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.72	141.64	2.881e+04	501.54	11.88	11.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.71	117.81	2.893e+04	417.62	14.98	11.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.70	142.73	2.907e+04	507.01	20.83	11.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.70	133.88	2.920e+04	475.78	24.68	11.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	163.15	2.937e+04	581.28	29.78	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.69	496.85	2.986e+04	1771.39	20.83	25.49	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.69	181.24	3.005e+04	646.49	35.68	10.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	142.83	3.019e+04	510.10	7.72	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.68	370.13	3.056e+04	1322.28	23.78	25.62	-1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.68	359.45	3.092e+04	1285.10	17.88	25.67	-1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.67	170.50	3.109e+04	610.40	16.04	10.69	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.67	139.80	3.123e+04	500.76	11.88	10.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.67	116.16	3.134e+04	416.75	14.98	10.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	140.58	3.149e+04	505.99	20.83	10.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	127.98	3.161e+04	460.91	24.68	10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	48.21	3.166e+04	173.75	41.88	10.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	160.96	3.182e+04	580.42	29.78	10.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	163.98	3.199e+04	591.58	35.68	10.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.65	490.40	3.248e+04	1769.64	20.83	26.28	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.64	141.06	3.262e+04	509.39	7.72	10.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	103.45	3.272e+04	374.61	-0.22	9.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	137.96	3.286e+04	499.97	11.88	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.63	379.34	3.324e+04	1376.25	20.91	24.50	-1.79	0.0	0.0	0.0	0.0	0.0	0.0
3.62	341.41	3.358e+04	1239.56	23.78	26.67	-1.19	0.0	0.0	0.0	0.0	0.0	0.0
3.62	114.51	3.369e+04	415.89	14.98	9.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.61	240.94	3.394e+04	878.87	22.67	9.50	-0.19	0.0	0.0	0.0	0.0	0.0	0.0
3.61	161.91	3.410e+04	590.83	35.68	9.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	158.77	3.426e+04	579.57	29.78	9.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	139.29	3.440e+04	508.67	7.72	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.60	547.05	3.494e+04	1998.36	23.26	25.03	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.59	102.25	3.504e+04	374.61	-0.22	9.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.59	532.40	3.558e+04	1951.87	20.77	27.29	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.59	155.10	3.573e+04	568.73	11.88	9.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.58	112.87	3.585e+04	415.03	14.98	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.57	75.69	3.592e+04	279.28	20.83	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	184.63	3.611e+04	681.57	35.68	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	68.20	3.617e+04	251.80	24.68	8.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	137.53	3.631e+04	507.95	7.72	8.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	77.73	3.639e+04	287.16	41.88	8.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	156.59	3.655e+04	578.71	29.78	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.56	477.54	3.702e+04	1766.16	20.83	27.85	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.55	536.10	3.756e+04	1986.39	20.83	27.96	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.55	98.89	3.766e+04	366.54	-0.22	8.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.53	249.42	3.791e+04	928.63	13.26	8.22	-0.15	0.0	0.0	0.0	0.0	0.0	0.0
3.52	74.81	3.798e+04	279.28	20.83	8.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	65.13	3.805e+04	243.27	24.68	8.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	135.78	3.818e+04	507.23	7.72	8.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	76.86	3.826e+04	287.16	41.88	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.52	181.93	3.844e+04	680.79	29.78	7.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.51	931.10	3.937e+04	3487.06	20.78	28.64	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.51	234.38	3.961e+04	878.63	21.03	7.80	-1.79	0.0	0.0	0.0	0.0	0.0	0.0
3.50	104.07	3.971e+04	391.15	11.88	7.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	447.93	4.016e+04	1688.29	27.38	22.45	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.49	109.61	4.027e+04	413.30	14.98	7.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.49	100.83	4.037e+04	380.36	11.88	29.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	209.14	4.058e+04	789.86	20.83	29.16	-0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.48	73.93	4.065e+04	279.28	20.83	7.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	64.38	4.072e+04	243.27	24.68	7.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.48	210.00	4.093e+04	793.68	20.08	7.30	-1.71	0.0	0.0	0.0	0.0	0.0	0.0
3.48	143.48	4.107e+04	543.17	20.83	29.30	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.47	88.14	4.116e+04	334.25	-0.22	7.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.47	102.95	4.126e+04	390.66	11.88	7.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.46	150.29	4.141e+04	572.17	29.78	6.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.45	206.96	4.162e+04	788.32	20.83	29.68	-0.32	0.0	0.0	0.0	0.0	0.0	0.0
3.45	507.25	4.213e+04	1933.00	20.91	29.71	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.44	107.99	4.223e+04	412.43	14.98	6.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	72.25	4.231e+04	276.19	20.83	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.44	269.42	4.258e+04	1030.18	21.10	6.59	-1.71	0.0	0.0	0.0	0.0	0.0	0.0
3.44	140.44	4.272e+04	537.48	20.83	29.97	-2.10	0.0	0.0	0.0	0.0	0.0	0.0
3.44	167.97	4.288e+04	642.94	35.68	6.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	80.27	4.296e+04	307.45	-0.22	6.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	101.83	4.307e+04	390.17	11.88	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.43	94.15	4.316e+04	361.35	29.78	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.42	186.50	4.335e+04	716.49	20.83	30.21	-0.32	0.0	0.0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
3.41	347.34	4.369e+04	1338.37	20.83	30.38	-1.49	0.0	0.0	0.0	0.0	0.0	0.0
3.40	1369.12	4.506e+04	5297.49	20.62	16.75	-2.10	0.0	20.15	16.20	0.749	7.1311e-04	0.045
3.05	3881.72	4.895e+04	1.674e+04	23.45	16.33	-2.25	0.0	20.94	11.29	0.400	0.162	0.529
2.55	3.38	4.895e+04	17.46	40.58	16.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.49	5.53	4.895e+04	29.22	40.58	15.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.45	4.30	4.896e+04	23.12	40.58	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.43	5.40	4.896e+04	29.23	40.58	14.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.37	5.26	4.897e+04	29.22	40.58	14.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.31	5.13	4.897e+04	29.23	40.58	13.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.27	8.02	4.898e+04	46.53	41.63	30.64	-0.04	0.0	0.0	0.0	0.0	0.0	0.0
2.26	5.02	4.899e+04	29.18	41.88	29.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.26	5.00	4.899e+04	29.18	41.88	29.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.25	393.30	4.939e+04	2299.58	13.54	25.06	-2.16	0.0	1.11	30.28	0.156	1.958	0.941
2.24	11.73	4.940e+04	68.81	20.83	27.85	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.86	4.940e+04	34.40	41.88	27.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	6.12	4.941e+04	35.97	-0.60	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.24	11.70	4.942e+04	68.81	20.83	27.06	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.24	5.85	4.943e+04	34.40	41.88	27.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.23	11.66	4.944e+04	68.81	20.83	26.28	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.23	11.92	4.945e+04	70.38	20.59	22.09	-2.08	0.0	0.0	0.0	0.0	0.0	0.0
2.23	5.82	4.946e+04	34.40	-0.22	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	11.63	4.947e+04	68.81	20.83	25.49	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.22	5.81	4.947e+04	34.40	41.88	25.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.22	15.96	4.949e+04	94.72	11.49	24.21	-1.44	0.0	0.0	0.0	0.0	0.0	0.0
2.22	16.54	4.951e+04	98.18	25.27	25.68	-0.88	0.0	0.0	0.0	0.0	0.0	0.0
2.21	5.79	4.951e+04	34.40	41.88	24.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.21	11.55	4.952e+04	68.81	20.83	23.92	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.21	11.80	4.954e+04	70.38	21.43	20.94	-2.00	0.0	0.0	0.0	0.0	0.0	0.0
2.20	11.52	4.955e+04	68.81	20.83	23.13	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.20	5.75	4.955e+04	34.40	-0.22	21.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	5.75	4.956e+04	34.40	41.88	23.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.20	11.48	4.957e+04	68.81	20.83	22.34	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.19	6.00	4.958e+04	35.97	2.69	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	5.73	4.958e+04	34.40	41.88	22.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.19	11.45	4.959e+04	68.81	20.83	21.56	-0.28	0.0	0.0	0.0	0.0	0.0	0.0
2.18	21.43	4.961e+04	129.12	20.27	23.20	-1.92	0.0	0.0	0.0	0.0	0.0	0.0
2.18	16.10	4.963e+04	97.09	25.15	22.67	-0.88	0.0	0.0	0.0	0.0	0.0	0.0
2.18	5.69	4.964e+04	34.40	41.88	20.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.18	76.41	4.971e+04	462.14	19.27	20.04	-1.32	0.0	20.83	19.97	0.078	0.687	0.042
2.17	5.94	4.972e+04	35.97	4.33	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.17	5.18	4.972e+04	31.42	41.88	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	5.91	4.973e+04	35.97	5.16	18.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.16	9.00	4.974e+04	54.85	14.98	19.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.15	1232.12	5.097e+04	7539.18	22.83	13.78	-2.17	0.0	22.55	11.04	0.170	0.024	0.497
2.05	47.41	5.102e+04	304.23	3.74	5.99	-0.44	0.0	-0.18	5.90	0.052	6.800	0.099
1.30	1069.80	5.209e+04	1.083e+04	20.77	17.74	-2.17	0.0	31.02	16.81	0.675	0.866	0.039
0.45	251.90	5.234e+04	7364.29	20.64	16.63	-2.17	0.0	20.46	11.88	0.520	0.011	0.458
0.33	22.50	5.236e+04	910.89	20.91	23.20	-0.72	0.0	20.83	20.06	0.335	0.028	0.787
Risulta	5.236e+04		1.976e+05									

RISULTATI ELEMENTI TIPO TRAVE

LEGENDA RISULTATI ELEMENTI TIPO TRAVE

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo trave, è possibile in relazione alle tabelle sotto riportate.

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

- tipo **pilastro**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

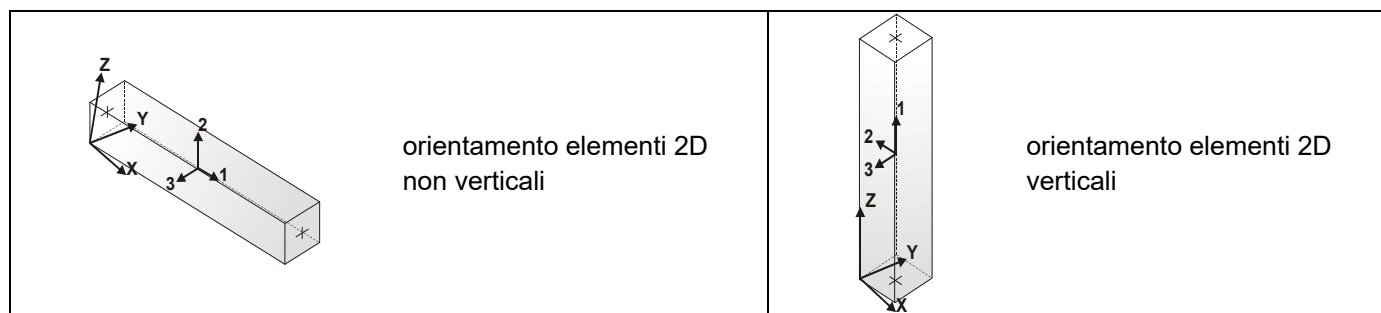
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

Per gli elementi tipo *pilastro* sono riportati in tabella i seguenti valori:

Pilas.	numero dell'elemento pilastro
Cmb	combinazione in cui si verificano i valori riportati
M3 mx/mn	momento flettente in campata M3 max (prima riga) / min (seconda riga)
M2 mx/mn	momento flettente in campata M2 max (prima riga) / min (seconda riga)
D2/D3	freccia massima in direzione 2 (prima riga) / direzione 3 (seconda riga)
Q2/Q3	carico totale in direzione 2 (prima riga) / direzione 3 (seconda riga)
Pos.	ascissa del punto iniziale e finale dell'elemento
N, V2, ecc..	sei componenti di sollecitazione al piede ed in sommità dell'elemento

Per gli elementi tipo *trave in elevazione* sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri.

Per gli elementi tipo *trave in fondazione* (trave f.) sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri e la massima pressione sul terreno.



Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Pilas.	Cmb	M3 mx/mn		M2 mx/mn		D 2 / D 3		Q 2 / Q 3		Pos.	N	V 2	V 3	T		M 2		M 3	
		daN	cm	daN	cm	cm	daN	daN	daN					cm	daN	cm	daN	cm	daN
4		2	-1.548e+04	3.45e-04	4.90e-03	0.0	0.0	-1308.94	118.95	-1.56	-12.07	3.45e-04	-1.926e+04						
			-1.926e+04	-50.64	2.33e-04	0.0	32.5	-1295.42	118.95	-1.56	-12.07	-50.64	-1.548e+04						
4	13	-5487.81	60.46	1.36e-03	0.0	0.0	-472.80	46.71	1.86	23.88	8.21e-04	-6952.81							
		-6952.81	8.21e-04	4.24e-04	0.0	32.5	-462.40	46.71	1.86	23.88	60.46	-5487.81							
4	24	-1.172e+04	-4.76e-04	3.39e-03	0.0	0.0	-993.69	91.55	-3.96	-33.96	-4.76e-04	-1.462e+04							
		-1.462e+04	-128.70	-1.91e-04	0.0	32.5	-980.17	91.55	-3.96	-33.96	-128.70	-1.172e+04							
4	47	-7636.66	2.16e-04	2.20e-03	0.0	0.0	-646.84	59.52	-0.78	1.50	2.16e-04	-9518.46							
		-9518.46	-25.40	1.28e-04	0.0	32.5	-636.44	59.52	-0.78	1.50	-25.40	-7636.66							
4	48	-7636.66	2.16e-04	2.20e-03	0.0	0.0	-646.84	59.52	-0.78	1.50	2.16e-04	-9518.46							
		-9518.46	-25.40	1.28e-04	0.0	32.5	-636.44	59.52	-0.78	1.50	-25.40	-7636.66							
5	2	1.799e+04	184.17	-8.55e-03	0.0	0.0	-910.31	-92.60	4.09	178.79	-1.19e-03	1.799e+04							
		1.449e+04	-1.19e-03	-7.63e-05	0.0	45.0	-891.59	-92.60	4.09	178.79	184.17	1.449e+04							
5	8	1.737e+04	190.75	-7.82e-03	0.0	0.0	-879.13	-90.24	4.24	162.42	-4.13e-04	1.737e+04							
		1.392e+04	-4.13e-04	2.92e-04	0.0	45.0	-860.41	-90.24	4.24	162.42	190.75	1.392e+04							
5	24	1.269e+04	103.69	-5.45e-03	0.0	0.0	-642.71	-72.11	2.30	132.58	-1.82e-03	1.269e+04							
		1.005e+04	-1.82e-03	-5.67e-04	0.0	45.0	-623.99	-72.11	2.30	132.58	103.69	1.005e+04							
5	25	6135.25	35.49	-2.32e-03	0.0	0.0	-310.82	-38.32	0.79	68.27	-1.41e-03	6135.25							
		4775.94	-1.41e-03	-5.51e-04	0.0	45.0	-296.42	-38.32	0.79	68.27	35.49	4775.94							
5	47	8838.17	87.58	-4.18e-03	0.0	0.0	-447.20	-45.59	1.95	92.08	-7.21e-04	8838.17							
		7139.82	-7.21e-04	-9.87e-05	0.0	45.0	-432.80	-45.59	1.95	92.08	87.58	7139.82							
5	48	8838.17	87.58	-4.18e-03	0.0	0.0	-447.20	-45.59	1.95	92.08	-7.21e-04	8838.17							
		7139.82	-7.21e-04	-9.87e-05	0.0	45.0	-432.80	-45.59	1.95	92.08	87.58	7139.82							
6	2	1.494e+04	13.04	-1.40e-03	0.0	0.0	-776.81	-175.19	0.29	-52.07	3.87e-04	1.494e+04							
		8194.16	3.87e-04	3.43e-04	0.0	45.0	-758.09	-175.19	0.29	-52.07	13.04	8194.16							
6	12	1.024e+04	18.54	-6.48e-04	0.0	0.0	-532.54	-120.64	0.41	-39.13	7.11e-04	1.024e+04							
		5607.51	7.11e-04	8.15e-04	0.0	45.0	-513.82	-120.64	0.41	-39.13	18.54	5607.51							
6	25	4880.59	-2.99e-04	-1.23e-04	0.0	0.0	-253.84	-58.09	-0.12	-13.68	-2.99e-04	4880.59							
		2639.17	-5.58	-4.42e-04	0.0	45.0	-239.44	-58.09	-0.12	-13.68	-5.58	2639.17							
6	45	3097.10	5.69e-05	1.22e-03	0.0	0.0	-162.05	-45.18	-1.03e-03	-14.17	5.69e-05	3097.10							
		1297.85	-0.05	2.92e-05	0.0	45.0	-147.65	-45.18	-1.03e-03	-14.17	-0.05	1297.85							
6	47	7676.87	4.67	-6.75e-04	0.0	0.0	-399.10	-89.83	0.10	-25.47	1.40e-04	7676.87							
		4228.02	1.40e-04	1.02e-04	0.0	45.0	-384.70	-89.83	0.10	-25.47	4.67	4228.02							
6	48	7676.87	4.67	-6.75e-04	0.0	0.0	-399.10	-89.83	0.10	-25.47	1.40e-04	7676.87							
		4228.02	1.40e-04	1.02e-04	0.0	45.0	-384.70	-89.83	0.10	-25.47	4.67	4228.02							
7	2	1.854e+04	3.69	-1.25e-03	0.0	0.0	-965.60	-238.60	0.08	26.62	1.18e-04	1.854e+04							
		9271.69	1.18e-04	2.40e-04	0.0	45.0	-946.88	-238.60	0.08	26.62	3.69	9271.69							
7	35	8598.40	2.35e-05	-1.71e-03	0.0	0.0	-446.36	-98.24	-0.01	6.36	2.35e-05	8598.40							
		4877.84	-0.55	5.12e-05	0.0	45.0	-431.96	-98.24	-0.01	6.36	-0.55	4877.84							
7	38	1.584e+04	4.06	-3.60e-04	0.0	0.0	-825.99	-212.07	0.09	22.02	1.00e-04	1.584e+04							
		7549.32	1.00e-04	2.01e-04	0.0	45.0	-807.27	-212.07	0.09	22.02	4.06	7549.32							
7	45	4262.46	2.41	1.32e-03	0.0	0.0	-223.39	-67.41	0.05	5.72	-2.64e-05	4262.46							
		1568.89	-2.64e-05	-1.57e-05	0.0	45.0	-208.99	-67.41	0.05	5.72	2.41	1568.89							
7	47	9198.32	1.81	-5.93e-04	0.0	0.0	-478.89	-117.45	0.04	14.07	1.78e-06	9198.32							
		4649.44	1.78e-06	4.81e-05	0.0	45.0	-464.49	-117.45	0.04	14.07	1.81	4649.44							
7	48	9198.32	1.81	-5.93e-04	0.0	0.0	-478.89	-117.45	0.04	14.07	1.78e-06	9198.32							
		4649.44	1.78e-06	4.81e-05	0.0	45.0	-464.49	-117.45	0.04	14.07	1.81	4649.44							
8	2	1.111e+04	21.75	-5.74e-03	0.0	0.0	-568.52	-57.44	0.48	48.09	-5.17e-05	1.111e+04							
		8940.81	-5.17e-05	9.05e-05	0.0	45.0	-549.80	-57.44	0.48	48.09	21.75	8940.81							
8	12	8384.77	33.30	-3.53e-03	0.0	0.0	-429.16	-44.66	0.74	25.10	4.11e-04	8384.77							
		6658.89	4.11e-04	6.10e-04	0.0	45.0	-410.44	-44.66	0.74	25.10	33.30	6658.89							
8	25	3868.73	-4.47e-04	-1.23e-03	0.0	0.0	-198.30	-23.16	-0.25	16.70	-4.47e-04	3868.73							
		3073.34	-11.06	-5.20e-04	0.0	45.0	-183.90	-23.16	-0.25	16.70	-11.06	3073.34							
8	47	5762.36	10.76	-2.93e-03	0.0	0.0	-294.74	-28.87	0.24	23.36	-7.72e-05	5762.36							
		4697.14	-7.72e-05	-2.31e-05	0.0	45.0	-280.34	-28.87	0.24	23.36	10.76	4697.14							
8	48	5762.36	10.76	-2.93e-03	0.0	0.0	-294.74	-28.87	0.24	23.36	-7.72e-05	5762.36							
		4697.14	-7.72e-05	-2.31e-05	0.0	45.0	-280.34	-28.87	0.24	23.36	10.76	4697.14							
9	2	3.393e+04	445.18	-0.01	0.0	0.0	-1719.68	-190.31	9.89	130.84	-3.46e-03	3.393e+04							
		2.689e+04	-3.46e-03	-1.34e-03	0.0	45.0	-1700.96	-190.31	9.89	130.84	445.18	2.689e+04							
9	8	3.210e+04	448.98	-0.01	0.0	0.0	-1626.69	-182.23	9.98	109.77	-2.42e-03	3.210e+04							
		2.529e+04	-2.42e-03	-8.84e-04	0.0	45.0	-1607.97	-182.23	9.98	109.77	448.98	2.529e+04							
9	18	3.106e+04	381.55	-0.01	0.0	0.0	-1574.60	-180.65	8.48	127.54	-3.84e-03	3.106e+04							
		2.442e+04	-3.84e-03	-1.53e-03	0.0	45.0	-1555.88	-180.65	8.48	127.54	381.55	2.442e+04							
9	25	1.080e+04	87.35	-3.32e-03	0.0	0.0	-547.96	-74.22	1.94	55.08	-2.30e-03	1.080e+04							
		8135.78	-2.30e-03	-9.79e-04	0.0	45.0	-533.56	-74.22	1.94	55.08	87.35	8135.78							
9	47	1.636e+04	203.25	-6.38e-03	0.0	0.0	-829.10	-95.24	4.52	63.39	-1.76e-03	1.636e+04							
		1.285e+04	-1.76e-03	-6.86e-04	0.0	45.0	-814.70	-95.24	4.52	63.39	203.25	1.285e+04							
9	48	1.636e+04	203.25	-6.38e-03	0.0	0.0	-829.10	-95.24	4.52	63.39	-1.76e-03	1.636e+04							
		1.285e+04	-1.76e-03	-6.86e-04	0.0	45.0</													



		1.383e+04	-133.29	9.75e-04	0.0	45.0	-848.55	-88.91	-2.96	-94.07	-133.29	1.383e+04
10	13	6312.24	1.25e-03	-2.65e-03	0.0	0.0	-321.42	-37.30	-0.83	-36.68	1.25e-03	6312.24
		5022.15	-37.39	7.16e-04	0.0	45.0	-307.02	-37.30	-0.83	-36.68	-37.39	5022.15
10	18	1.795e+04	9.12e-04	-8.92e-03	0.0	0.0	-912.45	-89.64	-3.63	-89.16	9.12e-04	1.795e+04
		1.461e+04	-163.52	3.28e-04	0.0	45.0	-893.73	-89.64	-3.63	-89.16	-163.52	1.461e+04
10	47	9267.46	6.48e-04	-4.83e-03	0.0	0.0	-471.10	-44.99	-1.81	-46.88	6.48e-04	9267.46
		7626.98	-81.61	2.85e-04	0.0	45.0	-456.70	-44.99	-1.81	-46.88	-81.61	7626.98
10	48	9267.46	6.48e-04	-4.83e-03	0.0	0.0	-471.10	-44.99	-1.81	-46.88	6.48e-04	9267.46
		7626.98	-81.61	2.85e-04	0.0	45.0	-456.70	-44.99	-1.81	-46.88	-81.61	7626.98
11	2	1.487e+04	3.42e-04	-3.46e-03	0.0	0.0	-766.94	-130.68	-0.42	-2.95	3.42e-04	1.487e+04
		9945.71	-19.06	4.24e-04	0.0	45.0	-748.22	-130.68	-0.42	-2.95	-19.06	9945.71
11	12	1.021e+04	6.43e-04	-1.85e-03	0.0	0.0	-526.85	-90.01	-0.26	-1.68	6.43e-04	1.021e+04
		6833.28	-11.90	8.08e-04	0.0	45.0	-508.13	-90.01	-0.26	-1.68	-11.90	6833.28
11	45	4142.15	5.18e-05	1.26e-03	0.0	0.0	-214.05	-39.79	-0.14	-0.08	5.18e-05	4142.15
		2637.44	-6.51	6.59e-05	0.0	45.0	-199.65	-39.79	-0.14	-0.08	-6.51	2637.44
11	47	7538.22	1.20e-04	-1.68e-03	0.0	0.0	-388.80	-66.18	-0.21	-1.43	1.20e-04	7538.22
		5058.59	-9.52	1.48e-04	0.0	45.0	-374.40	-66.18	-0.21	-1.43	-9.52	5058.59
11	48	7538.22	1.20e-04	-1.68e-03	0.0	0.0	-388.80	-66.18	-0.21	-1.43	1.20e-04	7538.22
		5058.59	-9.52	1.48e-04	0.0	45.0	-374.40	-66.18	-0.21	-1.43	-9.52	5058.59
12	2	1.325e+04	2.05e-04	-6.47e-03	0.0	0.0	-679.20	-75.48	-0.30	5.71	2.05e-04	1.325e+04
		1.041e+04	-13.72	2.85e-04	0.0	45.0	-660.48	-75.48	-0.30	5.71	-13.72	1.041e+04
12	13	5355.46	6.72	-1.91e-03	0.0	0.0	-274.75	-32.37	0.15	1.69	4.46e-04	5355.46
		4153.23	4.46e-04	5.79e-04	0.0	45.0	-260.35	-32.37	0.15	1.69	6.72	4153.23
12	24	9953.43	-3.60e-04	-4.22e-03	0.0	0.0	-510.55	-59.46	-0.47	10.30	-3.60e-04	9953.43
		7741.12	-21.19	-4.27e-04	0.0	45.0	-491.83	-59.46	-0.47	10.30	-21.19	7741.12
12	25	5200.23	-4.45e-04	-1.88e-03	0.0	0.0	-266.85	-31.95	-0.35	8.49	-4.45e-04	5200.23
		4031.26	-15.77	-5.43e-04	0.0	45.0	-252.45	-31.95	-0.35	8.49	-15.77	4031.26
12	47	6709.50	5.49e-05	-3.27e-03	0.0	0.0	-343.82	-37.13	-0.13	4.11	5.49e-05	6709.50
		5333.99	-5.64	8.49e-05	0.0	45.0	-329.42	-37.13	-0.13	4.11	-5.64	5333.99
12	48	6709.50	5.49e-05	-3.27e-03	0.0	0.0	-343.82	-37.13	-0.13	4.11	5.49e-05	6709.50
		5333.99	-5.64	8.49e-05	0.0	45.0	-329.42	-37.13	-0.13	4.11	-5.64	5333.99
13	2	-1.093e+04	-1.23e-04	4.09e-03	0.0	0.0	-1066.15	108.26	-0.47	-24.63	-1.23e-04	-1.557e+04
		-1.557e+04	-21.07	-8.99e-05	0.0	45.0	-1047.43	108.26	-0.47	-24.63	-21.07	-1.093e+04
13	13	-4200.28	5.13e-04	1.25e-03	0.0	0.0	-409.22	42.00	-0.01	-2.04	5.13e-04	-5975.77
		-5975.77	-0.59	6.38e-04	0.0	45.0	-394.82	42.00	-0.01	-2.04	-0.59	-4200.28
13	18	-1.031e+04	-3.72e-04	3.80e-03	0.0	0.0	-1006.94	102.73	-0.48	-22.29	-3.72e-04	-1.471e+04
		-1.471e+04	-21.48	-4.02e-04	0.0	45.0	-988.22	102.73	-0.48	-22.29	-21.48	-1.031e+04
13	45	-4123.97	-9.38e-05	3.06e-03	0.0	0.0	-387.38	36.60	-0.13	-6.91	-9.38e-05	-5663.79
		-5663.79	-5.64	-9.84e-05	0.0	45.0	-372.98	36.60	-0.13	-6.91	-5.64	-4123.97
13	47	-5466.18	-4.88e-05	1.79e-03	0.0	0.0	-532.55	54.37	-0.14	-7.15	-4.88e-05	-7777.35
		-7777.35	-6.27	-4.22e-05	0.0	45.0	-518.15	54.37	-0.14	-7.15	-6.27	-5466.18
13	48	-5466.18	-4.88e-05	1.79e-03	0.0	0.0	-532.55	54.37	-0.14	-7.15	-4.88e-05	-7777.35
		-7777.35	-6.27	-4.22e-05	0.0	45.0	-518.15	54.37	-0.14	-7.15	-6.27	-5466.18
14	2	-2.644e+04	100.83	8.34e-03	0.0	0.0	-2381.79	214.79	2.24	-74.60	-5.26e-04	-3.495e+04
		-3.495e+04	-5.26e-04	-3.86e-04	0.0	45.0	-2363.07	214.79	2.24	-74.60	100.83	-2.644e+04
14	8	-2.509e+04	109.69	7.89e-03	0.0	0.0	-2258.48	202.64	2.44	-68.01	-1.35e-04	-3.315e+04
		-3.315e+04	-1.35e-04	1.64e-05	0.0	45.0	-2239.76	202.64	2.44	-68.01	109.69	-2.509e+04
14	25	-5433.87	-5.95e-04	1.41e-03	0.0	0.0	-520.49	55.32	-0.18	-18.67	-5.95e-04	-7622.44
		-7622.44	-7.93	-5.91e-04	0.0	45.0	-506.09	55.32	-0.18	-18.67	-7.93	-5433.87
14	35	-5164.56	12.53	3.64e-04	0.0	0.0	-494.10	51.01	0.28	-6.88	-6.52e-05	-7238.73
		-7238.73	-6.52e-05	-5.30e-05	0.0	45.0	-479.70	51.01	0.28	-6.88	12.53	-5164.56
14	47	-8509.08	26.00	2.30e-03	0.0	0.0	-817.56	85.37	0.58	-20.13	-1.68e-04	-1.198e+04
		-1.198e+04	-1.68e-04	-1.31e-04	0.0	45.0	-803.16	85.37	0.58	-20.13	26.00	-8509.08
14	48	-8509.08	26.00	2.30e-03	0.0	0.0	-817.56	85.37	0.58	-20.13	-1.68e-04	-1.198e+04
		-1.198e+04	-1.68e-04	-1.31e-04	0.0	45.0	-803.16	85.37	0.58	-20.13	26.00	-8509.08
15	2	-2.849e+04	1.16e-03	8.34e-03	0.0	0.0	-2582.32	244.38	-5.21	94.50	1.16e-03	-3.802e+04
		-3.802e+04	-234.49	5.56e-04	0.0	45.0	-2563.60	244.38	-5.21	94.50	-234.49	-2.849e+04
15	8	-2.663e+04	1.59e-03	7.86e-03	0.0	0.0	-2401.04	225.63	-4.59	93.22	1.59e-03	-3.535e+04
		-3.535e+04	-206.46	8.51e-04	0.0	45.0	-2382.32	225.63	-4.59	93.22	-206.46	-2.663e+04
15	18	-2.715e+04	4.81e-04	7.90e-03	0.0	0.0	-2460.45	231.59	-5.24	87.11	4.81e-04	-3.623e+04
		-3.623e+04	-235.64	1.19e-04	0.0	45.0	-2441.73	231.59	-5.24	87.11	-235.64	-2.715e+04
15	35	-5415.31	1.62e-04	3.44e-04	0.0	0.0	-521.32	56.12	-0.77	10.86	1.62e-04	-7664.45
		-7664.45	-34.84	8.30e-05	0.0	45.0	-506.92	56.12	-0.77	10.86	-34.84	-5415.31
15	47	-9110.07	3.28e-04	2.29e-03	0.0	0.0	-880.45	95.73	-1.50	25.59	3.28e-04	-1.294e+04
		-1.294e+04	-67.62	1.60e-04	0.0	45.0	-866.05	95.73	-1.50	25.59	-67.62	-9110.07
15	48	-9110.07	3.28e-04	2.29e-03	0.0	0.0	-880.45	95.73	-1.50	25.59	3.28e-04	-1.294e+04
		-1.294e+04	-67.62	1.60e-04	0.0	45.0	-866.05	95.73	-1.50	25.59	-67.62	-9110.07
16	2	-1.110e+04	5.79	4.10e-03	0.0	0.0	-1079.71	108.37	0.13	19.95	1.33e-04	-1.576e+04
		-1.576e+04	1.33e-04	1.21e-04	0.0	45.0	-1060.99	108.37	0.13	19.95	5.79	-1.110e+04
16	8	-1.046e+04	8.00	3.83e-03	0.0	0.0	-1019.12	102.66	0.18	17.90	3.91e-04	-1.487e+04
		-1.487e+04	3.91e-04	4.57e-04	0.0	45.0	-1000.40	102.66	0.18	17.90	8.00	-1.046e+04
16	25	-4282.05	-5.38e-04	1.28e-03	0.0	0.0	-415.64	42.03	-0.04	1.20	-5.38e-04	-6064.78
		-6064.78	-1.94	-6.93e-04	0.0	45.0	-401.24	42.03	-0.04	1.20	-1.94	-4282.05
16	45	-4231.52	3.13	3.10e-03	0.0	0.0	-396.71	37.04	0.07	5.54	5.05e-05	-5795.73
		-5795.73	5.05e-05	5.11e-05	0.0	45.0	-382.31	37.04	0.07	5.54	3.13	-4231.52



16	47	-5544.60	2.18	1.81e-03	0.0	0.0	-538.07	54.11	0.05	6.06	3.65e-05	-7851.97
		-7851.97	3.65e-05	3.20e-05	0.0	45.0	-523.67	54.11	0.05	6.06	2.18	-5544.60
16	48	-5544.60	2.18	1.81e-03	0.0	0.0	-538.07	54.11	0.05	6.06	3.65e-05	-7851.97
		-7851.97	3.65e-05	3.20e-05	0.0	45.0	-523.67	54.11	0.05	6.06	2.18	-5544.60
17	2	-7631.66	84.51	6.70e-03	0.0	0.0	-1435.43	105.05	0.40	42.21	45.03	-1.614e+04
		-1.614e+04	45.03	-5.49e-04	0.0	97.5	-1394.87	105.05	0.40	42.21	84.51	-7631.66
17	12	-5505.18	125.96	4.17e-03	0.0	0.0	-1076.87	80.33	-0.53	25.53	125.96	-1.209e+04
		-1.209e+04	74.27	1.21e-03	0.0	97.5	-1036.31	80.33	-0.53	25.53	74.27	-5505.18
17	25	-2350.79	39.77	1.32e-03	0.0	0.0	-508.42	42.03	1.10	14.88	-67.67	-5586.20
		-5586.20	-67.67	-1.69e-03	0.0	97.5	-477.22	42.03	1.10	14.88	39.77	-2350.79
17	45	-2913.72	38.27	5.63e-03	0.0	0.0	-507.36	36.66	0.26	28.04	12.96	-5804.05
		-5804.05	12.96	-3.65e-04	0.0	97.5	-476.16	36.66	0.26	28.04	38.27	-2913.72
17	47	-3626.10	59.95	2.64e-03	0.0	0.0	-699.07	52.75	0.41	12.88	19.54	-7843.70
		-7843.70	19.54	-3.17e-04	0.0	97.5	-667.87	52.75	0.41	12.88	59.95	-3626.10
17	48	-3626.10	59.95	2.64e-03	0.0	0.0	-699.07	52.75	0.41	12.88	19.54	-7843.70
		-7843.70	19.54	-3.17e-04	0.0	97.5	-667.87	52.75	0.41	12.88	59.95	-3626.10
18	2	-4035.52	58.90	2.52e-03	0.0	0.0	-2408.83	198.75	1.36	-122.53	-73.82	-1.915e+04
		-1.915e+04	-73.82	-1.30e-03	0.0	97.5	-2368.27	198.75	1.36	-122.53	58.90	-4035.52
18	13	-926.48	116.63	4.76e-04	0.0	0.0	-686.53	53.60	-1.27	-64.28	116.63	-5640.64
		-5640.64	-7.56	1.47e-03	0.0	97.5	-655.33	53.60	-1.27	-64.28	-7.56	-926.48
18	24	-2399.70	51.32	1.44e-03	0.0	0.0	-1517.27	131.15	2.69	-95.96	-210.63	-1.199e+04
		-1.199e+04	-210.63	-2.68e-03	0.0	97.5	-1476.71	131.15	2.69	-95.96	51.32	-2399.70
18	35	-363.37	-6.27	-1.35e-03	0.0	0.0	-534.22	47.54	0.26	-23.08	-31.56	-4323.93
		-4323.93	-31.56	-3.31e-04	0.0	97.5	-503.02	47.54	0.26	-23.08	-6.27	-363.37
18	47	-1268.76	16.06	7.49e-04	0.0	0.0	-928.96	78.88	0.64	-62.88	-46.69	-7431.56
		-7431.56	-46.69	-5.85e-04	0.0	97.5	-897.76	78.88	0.64	-62.88	16.06	-1268.76
18	48	-1268.76	16.06	7.49e-04	0.0	0.0	-928.96	78.88	0.64	-62.88	-46.69	-7431.56
		-7431.56	-46.69	-5.85e-04	0.0	97.5	-897.76	78.88	0.64	-62.88	16.06	-1268.76
19	2	-3934.26	53.33	2.46e-03	0.0	0.0	-2355.62	192.99	-1.28	117.64	53.33	-1.862e+04
		-1.862e+04	-71.83	1.37e-03	0.0	97.5	-2315.06	192.99	-1.28	117.64	-71.83	-3934.26
19	12	-2340.60	185.65	1.41e-03	0.0	0.0	-1480.67	127.37	-2.47	92.79	185.65	-1.162e+04
		-1.162e+04	-55.04	2.68e-03	0.0	97.5	-1440.11	127.37	-2.47	92.79	-55.04	-2340.60
19	25	-910.96	3.30	4.60e-04	0.0	0.0	-678.26	52.33	1.22	61.71	-116.01	-5548.27
		-5548.27	-116.01	-1.48e-03	0.0	97.5	-647.06	52.33	1.22	61.71	3.30	-910.96
19	35	-354.72	30.53	-1.38e-03	0.0	0.0	-517.98	45.96	-0.25	20.49	30.53	-4164.41
		-4164.41	6.39	3.78e-04	0.0	97.5	-486.78	45.96	-0.25	20.49	6.39	-354.72
19	47	-1240.62	34.25	7.26e-04	0.0	0.0	-909.35	76.60	-0.54	60.36	34.25	-7234.25
		-7234.25	-18.49	5.53e-04	0.0	97.5	-878.15	76.60	-0.54	60.36	-18.49	-1240.62
19	48	-1240.62	34.25	7.26e-04	0.0	0.0	-909.35	76.60	-0.54	60.36	34.25	-7234.25
		-7234.25	-18.49	5.53e-04	0.0	97.5	-878.15	76.60	-0.54	60.36	-18.49	-1240.62
20	2	-7350.89	-50.64	6.31e-03	0.0	0.0	-1407.92	102.92	-0.19	-32.45	-50.64	-1.573e+04
		-1.573e+04	-68.87	4.44e-04	0.0	97.5	-1367.36	102.92	-0.19	-32.45	-68.87	-7350.89
20	13	-2267.06	60.46	1.25e-03	0.0	0.0	-497.29	41.03	-1.02	-12.16	60.46	-5423.86
		-5423.86	-39.18	1.66e-03	0.0	97.5	-466.09	41.03	-1.02	-12.16	-39.18	-2267.06
20	24	-5319.97	-66.03	3.86e-03	0.0	0.0	-1063.80	79.28	0.64	-19.22	-128.70	-1.186e+04
		-1.186e+04	-128.70	-1.32e-03	0.0	97.5	-1023.24	79.28	0.64	-19.22	-66.03	-5319.97
20	35	-2928.61	-13.02	8.16e-04	0.0	0.0	-497.14	35.03	-0.44	6.78	-13.02	-5684.98
		-5684.98	-55.51	2.19e-04	0.0	97.5	-465.94	35.03	-0.44	6.78	-55.51	-2928.61
20	47	-3530.38	-25.40	2.50e-03	0.0	0.0	-687.55	51.59	-0.34	-8.71	-25.40	-7670.27
		-7670.27	-58.37	2.40e-04	0.0	97.5	-656.35	51.59	-0.34	-8.71	-58.37	-3530.38
20	48	-3530.38	-25.40	2.50e-03	0.0	0.0	-687.55	51.59	-0.34	-8.71	-25.40	-7670.27
		-7670.27	-58.37	2.40e-04	0.0	97.5	-656.35	51.59	-0.34	-8.71	-58.37	-3530.38
21	2	1.497e+04	423.81	-8.58e-03	0.0	0.0	-985.78	-78.67	2.82	133.82	184.16	1.497e+04
		1.047e+04	184.16	4.08e-04	0.0	85.0	-950.42	-78.67	2.82	133.82	423.81	1.047e+04
21	25	4956.68	130.00	-1.89e-03	0.0	0.0	-338.94	-33.63	1.11	46.84	35.49	4956.68
		3276.94	35.49	-9.96e-04	0.0	85.0	-311.74	-33.63	1.11	46.84	130.00	3276.94
21	45	5321.95	131.17	6.96e-04	0.0	0.0	-379.05	-41.20	1.05	53.27	42.05	5321.95
		3013.75	42.05	-6.70e-05	0.0	85.0	-351.85	-41.20	1.05	53.27	131.17	3013.75
21	47	7325.42	209.37	-4.18e-03	0.0	0.0	-477.81	-38.67	1.43	68.21	87.58	7325.42
		5172.64	87.58	6.41e-05	0.0	85.0	-450.61	-38.67	1.43	68.21	209.37	5172.64
21	48	7325.42	209.37	-4.18e-03	0.0	0.0	-477.81	-38.67	1.43	68.21	87.58	7325.42
		5172.64	87.58	6.41e-05	0.0	85.0	-450.61	-38.67	1.43	68.21	209.37	5172.64
22	2	6352.19	13.04	-1.15e-03	0.0	0.0	-843.89	-82.69	-0.72	-49.18	13.04	6352.19
		2074.46	-47.98	7.03e-04	0.0	85.0	-808.53	-82.69	-0.72	-49.18	-47.98	2074.46
22	12	4415.38	18.55	-3.49e-04	0.0	0.0	-577.64	-58.11	-0.61	-35.07	18.55	4415.38
		1379.49	-32.88	1.63e-03	0.0	85.0	-542.28	-58.11	-0.61	-35.07	-32.88	1379.49
22	45	1795.05	-0.05	2.70e-03	0.0	0.0	-217.95	-30.14	-0.21	-14.47	-0.05	1795.05
		-243.57	-17.67	4.86e-05	0.0	85.0	-190.75	-30.14	-0.21	-14.47	-17.67	-243.57
22	47	3227.93	4.67	-5.29e-04	0.0	0.0	-426.35	-42.03	-0.34	-24.50	4.67	3227.93
		1092.40	-24.35	2.10e-04	0.0	85.0	-399.15	-42.03	-0.34	-24.50	-24.35	1092.40
22	48	3227.93	4.67	-5.29e-04	0.0	0.0	-426.35	-42.03	-0.34	-24.50	4.67	3227.93
		1092.40	-24.35	2.10e-04	0.0	85.0	-399.15	-42.03	-0.34	-24.50	-24.35	1092.40
23	2	7955.04	40.45	-9.19e-04	0.0	0.0	-1117.86	-120.07	0.43	26.41	3.69	7955.04
		1335.51	3.69	4.81e-04	0.0	85.0	-1082.50	-120.07	0.43	26.41	40.45	1335.51
23	35	3292.45	8.52	-2.47e-03	0.0	0.0	-453.11	-43.01	0.11	6.47	-0.55	3292.45

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



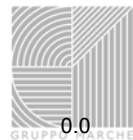
		1416.84	-0.55	9.84e-05	0.0	85.0	-425.91	-43.01	0.11	6.47	8.52	1416.84
23	45	2308.86	12.57	2.82e-03	0.0	0.0	-311.47	-41.70	0.12	5.48	2.41	2308.86
		-478.43	2.41	-1.79e-05	0.0	85.0	-284.27	-41.70	0.12	5.48	12.57	-478.43
23	47	3909.04	21.91	-4.21e-04	0.0	0.0	-544.60	-58.49	0.24	13.85	1.81	3909.04
		735.38	1.81	1.04e-04	0.0	85.0	-517.40	-58.49	0.24	13.85	21.91	735.38
23	48	3909.04	21.91	-4.21e-04	0.0	0.0	-544.60	-58.49	0.24	13.85	1.81	3909.04
		735.38	1.81	1.04e-04	0.0	85.0	-517.40	-58.49	0.24	13.85	21.91	735.38
24	2	8903.22	63.96	-6.28e-03	0.0	0.0	-611.64	-48.57	0.50	46.33	21.75	8903.22
		6246.52	21.75	2.62e-04	0.0	85.0	-576.28	-48.57	0.50	46.33	63.96	6246.52
24	25	2929.77	6.82	-8.19e-04	0.0	0.0	-206.42	-20.08	0.21	10.61	-11.06	2929.77
		1942.47	-11.06	-1.06e-03	0.0	85.0	-179.22	-20.08	0.21	10.61	6.82	1942.47
24	45	3147.19	14.26	2.01e-03	0.0	0.0	-238.95	-26.55	0.04	-0.13	11.05	3147.19
		1711.32	11.05	-8.55e-05	0.0	85.0	-211.75	-26.55	0.04	-0.13	14.26	1711.32
24	47	4574.40	32.42	-3.16e-03	0.0	0.0	-307.45	-24.26	0.25	21.04	10.76	4574.40
		3322.14	10.76	-1.62e-05	0.0	85.0	-280.25	-24.26	0.25	21.04	32.42	3322.14
24	48	4574.40	32.42	-3.16e-03	0.0	0.0	-307.45	-24.26	0.25	21.04	10.76	4574.40
		3322.14	10.76	-1.62e-05	0.0	85.0	-280.25	-24.26	0.25	21.04	32.42	3322.14
25	2	2.824e+04	669.23	-0.01	0.0	0.0	-1927.46	-171.68	2.64	74.01	445.18	2.824e+04
		1.895e+04	445.18	-1.01e-03	0.0	85.0	-1892.10	-171.68	2.64	74.01	669.23	1.895e+04
25	25	8659.08	213.75	-1.99e-03	0.0	0.0	-626.14	-68.50	1.49	17.57	87.35	8659.08
		5196.10	87.35	-1.69e-03	0.0	85.0	-598.94	-68.50	1.49	17.57	213.75	5196.10
25	35	9863.94	247.06	-7.71e-03	0.0	0.0	-624.54	-45.49	1.22	32.06	143.59	9863.94
		7626.85	143.59	-4.50e-04	0.0	85.0	-597.34	-45.49	1.22	32.06	247.06	7626.85
25	45	8853.89	175.58	2.52e-03	0.0	0.0	-696.18	-89.45	0.41	9.16	140.47	8853.89
		3703.10	140.47	-4.10e-04	0.0	85.0	-668.98	-89.45	0.41	9.16	175.58	3703.10
25	47	1.347e+04	307.74	-5.24e-03	0.0	0.0	-925.95	-86.27	1.23	33.41	203.25	1.347e+04
		8811.13	203.25	-6.16e-04	0.0	85.0	-898.75	-86.27	1.23	33.41	307.74	8811.13
25	48	1.347e+04	307.74	-5.24e-03	0.0	0.0	-925.95	-86.27	1.23	33.41	203.25	1.347e+04
		8811.13	203.25	-6.16e-04	0.0	85.0	-898.75	-86.27	1.23	33.41	307.74	8811.13
26	2	1.560e+04	-157.05	-0.01	0.0	0.0	-1036.18	-81.02	-0.88	-45.65	-157.05	1.560e+04
		1.138e+04	-232.13	1.02e-03	0.0	85.0	-1000.82	-81.02	-0.88	-45.65	-232.13	1.138e+04
26	13	5134.66	-37.39	-2.38e-03	0.0	0.0	-353.23	-33.59	-0.39	-13.19	-37.39	5134.66
		3613.34	-70.58	1.33e-03	0.0	85.0	-326.03	-33.59	-0.39	-13.19	-70.58	3613.34
26	45	5759.31	-72.68	7.44e-04	0.0	0.0	-407.32	-40.65	-0.35	-4.80	-72.68	5759.31
		3537.05	-102.18	1.75e-04	0.0	85.0	-380.12	-40.65	-0.35	-4.80	-102.18	3537.05
26	47	7744.25	-81.61	-5.12e-03	0.0	0.0	-507.16	-39.41	-0.46	-19.35	-81.61	7744.25
		5717.97	-120.85	3.68e-04	0.0	85.0	-479.96	-39.41	-0.46	-19.35	-120.85	5717.97
26	48	7744.25	-81.61	-5.12e-03	0.0	0.0	-507.16	-39.41	-0.46	-19.35	-81.61	7744.25
		5717.97	-120.85	3.68e-04	0.0	85.0	-479.96	-39.41	-0.46	-19.35	-120.85	5717.97
27	2	8300.09	-19.06	-3.13e-03	0.0	0.0	-802.58	-73.53	-0.36	-6.99	-19.06	8300.09
		4851.86	-49.88	6.86e-04	0.0	85.0	-767.22	-73.53	-0.36	-6.99	-49.88	4851.86
27	8	7587.88	-16.60	-2.24e-03	0.0	0.0	-730.46	-69.38	-0.40	-5.73	-16.60	7587.88
		4261.19	-50.86	1.27e-03	0.0	85.0	-695.10	-69.38	-0.40	-5.73	-50.86	4261.19
27	13	2776.76	-4.84	-1.46e-04	0.0	0.0	-259.84	-28.99	-0.24	-1.04	-4.84	2776.76
		1317.75	-25.48	1.18e-03	0.0	85.0	-232.64	-28.99	-0.24	-1.04	-25.48	1317.75
27	45	2767.82	-6.51	3.73e-03	0.0	0.0	-252.30	-43.16	-0.09	-1.22	-6.51	2767.82
		89.64	-14.32	8.76e-05	0.0	85.0	-225.10	-43.16	-0.09	-1.22	-14.32	89.64
27	47	4161.46	-9.52	-1.46e-03	0.0	0.0	-399.50	-37.64	-0.19	-3.34	-9.52	4161.46
		2415.09	-25.26	2.23e-04	0.0	85.0	-372.30	-37.64	-0.19	-3.34	-25.26	2415.09
27	48	4161.46	-9.52	-1.46e-03	0.0	0.0	-399.50	-37.64	-0.19	-3.34	-9.52	4161.46
		2415.09	-25.26	2.23e-04	0.0	85.0	-372.30	-37.64	-0.19	-3.34	-25.26	2415.09
28	2	1.053e+04	-13.72	-6.92e-03	0.0	0.0	-752.69	-63.80	-0.23	2.16	-13.72	1.053e+04
		7168.74	-33.40	4.48e-04	0.0	85.0	-717.33	-63.80	-0.23	2.16	-33.40	7168.74
28	13	4061.48	6.72	-1.56e-03	0.0	0.0	-293.50	-27.67	-0.16	3.36	6.72	4061.48
		2646.90	-7.17	1.13e-03	0.0	85.0	-266.30	-27.67	-0.16	3.36	-7.17	2646.90
28	25	3939.48	-7.81	-1.55e-03	0.0	0.0	-285.99	-27.39	0.09	5.02	-7.81	3939.48
		2549.23	-15.77	-1.11e-03	0.0	85.0	-258.79	-27.39	0.09	5.02	-15.77	2549.23
28	28	9935.76	-12.54	-7.60e-03	0.0	0.0	-714.94	-62.06	-0.26	-1.53	-12.54	9935.76
		6657.14	-34.40	4.27e-04	0.0	85.0	-679.58	-62.06	-0.26	-1.53	-34.40	6657.14
28	45	4072.69	1.02	1.32e-03	0.0	0.0	-311.88	-33.06	0.03	6.27	-1.57	4072.69
		2315.32	-1.57	1.46e-05	0.0	85.0	-284.68	-33.06	0.03	6.27	1.02	2315.32
28	47	5278.91	-5.64	-3.49e-03	0.0	0.0	-370.08	-31.20	-0.07	2.34	-5.64	5278.91
		3704.05	-11.70	1.22e-04	0.0	85.0	-342.88	-31.20	-0.07	2.34	-11.70	3704.05
28	48	5278.91	-5.64	-3.49e-03	0.0	0.0	-370.08	-31.20	-0.07	2.34	-5.64	5278.91
		3704.05	-11.70	1.22e-04	0.0	85.0	-342.88	-31.20	-0.07	2.34	-11.70	3704.05
29	2	-4534.86	-0.01	2.46e-03	0.0	0.0	-1169.90	94.85	0.25	-22.82	-21.07	-1.093e+04
		-1.093e+04	-21.07	-2.60e-04	0.0	85.0	-1134.54	94.85	0.25	-22.82	-0.01	-4534.86
29	18	-4215.22	5.14	2.22e-03	0.0	0.0	-1103.42	90.11	0.31	-19.80	-21.48	-1.029e+04
		-1.029e+04	-21.48	-8.55e-04	0.0	85.0	-1068.06	90.11	0.31	-19.80	5.14	-4215.22
29	23	-2434.02	9.43	7.59e-04	0.0	0.0	-666.16	56.58	0.22	-3.87	-9.05	-6175.92
		-6175.92	-9.05	-1.14e-03	0.0	85.0	-630.80	56.58	0.22	-3.87	9.43	-2434.02
29	25	-1614.99	8.82	4.71e-04	0.0	0.0	-435.14	37.14	0.18	-1.20	-6.76	-4052.39
		-4052.39	-6.76	-1.09e-03	0.0	85.0	-407.94	37.14	0.18	-1.20	8.82	-1614.99
29	45	-1936.66	1.86	3.81e-03	0.0	0.0	-406.64	31.82	0.09	-7.08	-5.64	-3981.56
		-3981.56	-5.64	-2.07e-04	0.0	85.0	-379.44	31.82	0.09	-7.08	1.86	-1936.66

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



29	47	-2223.68	0.47	8.32e-04	0.0	0.0	-575.18	47.63	0.08	-6.59	-6.27	-5380.44
		-5380.44	-6.27	-1.07e-04	0.0	85.0	-547.98	47.63	0.08	-6.59	0.47	-2223.68
...												
126	48	-1.361e+04	1.70e-03	1.24e-04	0.0	32.5	-909.01	172.14	1.05	71.19	34.25	-8314.84
Pilas.		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T			
		-5.427e+04	-1142.94	-0.07	-195.30		-4536.67	-239.85	-12.20	-241.38		
		4.262e+04	1591.79	0.08	390.60		-147.65	450.28	12.46	240.87		
Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
87	2	5.634e+05	0.0	-1.71	-2066.13	0.0	-2064.98	4129.67	0.0	2.03	0.0	0.0
		0.0	0.0	-1.59e-04	0.0	182.0	-1599.37	2063.54	0.0	2.03	0.0	5.634e+05
87	13	1.783e+05	0.0	-0.54	-654.17	0.0	-750.46	1307.26	0.0	-2.94	0.0	0.0
		0.0	0.0	9.53e-05	0.0	182.0	-548.61	653.09	0.0	-2.94	0.0	1.783e+05
87	18	5.239e+05	0.0	-1.59	-1921.21	0.0	-1984.83	3839.82	0.0	3.63	0.0	0.0
		0.0	0.0	-1.84e-04	0.0	182.0	-1519.23	1918.61	0.0	3.63	0.0	5.239e+05
87	35	1.783e+05	0.0	-0.54	-654.17	0.0	-729.54	1307.26	0.0	-1.66	0.0	0.0
		0.0	0.0	-1.76e-04	0.0	182.0	-527.69	653.09	0.0	-1.66	0.0	1.783e+05
87	38	5.239e+05	0.0	-1.59	-1921.21	0.0	-2069.21	3839.82	0.0	3.02	0.0	0.0
		0.0	0.0	-8.35e-05	0.0	182.0	-1603.60	1918.61	0.0	3.02	0.0	5.239e+05
87	40	4.137e+05	0.0	-1.26	-1517.01	0.0	-1670.56	3031.92	0.0	3.25	0.0	0.0
		0.0	0.0	-5.18e-05	0.0	182.0	-1296.04	1514.92	0.0	3.25	0.0	4.137e+05
87	47	2.603e+05	0.0	-0.79	-954.62	0.0	-944.37	1908.07	0.0	-0.48	0.0	0.0
		0.0	0.0	-8.42e-05	0.0	182.0	-729.25	953.45	0.0	-0.48	0.0	2.603e+05
87	48	2.603e+05	0.0	-0.79	-954.62	0.0	-944.37	1908.07	0.0	-0.48	0.0	0.0
		0.0	0.0	-8.42e-05	0.0	182.0	-729.25	953.45	0.0	-0.48	0.0	2.603e+05
88	2	4.755e+05	0.0	-1.48	-5226.84	0.0	-1266.33	2613.42	0.0	8.06	0.0	0.0
		0.0	0.0	-3.75e-04	0.0	727.8	-88.45	-2613.42	0.0	8.06	0.0	0.0
88	14	2.061e+05	0.0	-0.64	-2265.74	0.0	-668.76	1132.87	0.0	3.56	0.0	0.0
		0.0	0.0	6.67e-04	0.0	727.8	65.09	-1132.87	0.0	3.56	0.0	0.0
88	35	1.204e+05	0.0	-0.37	-1322.90	0.0	-400.39	661.45	0.0	0.17	0.0	0.0
		0.0	0.0	-6.66e-04	0.0	727.8	120.99	-661.45	0.0	0.17	0.0	0.0
88	38	4.214e+05	0.0	-1.31	-4632.40	0.0	-1296.95	2316.20	0.0	8.54	0.0	0.0
		0.0	0.0	-3.53e-05	0.0	727.8	-119.07	-2316.20	0.0	8.54	0.0	0.0
88	43	2.138e+05	0.0	-0.66	-2350.42	0.0	-842.49	1175.21	0.0	3.92	0.0	0.0
		0.0	0.0	1.70e-04	0.0	727.8	-89.55	-1175.21	0.0	3.92	0.0	0.0
88	47	2.237e+05	0.0	-0.69	-2458.60	0.0	-582.26	1229.30	0.0	2.34	0.0	0.0
		0.0	0.0	-2.94e-04	0.0	727.8	-28.21	-1229.30	0.0	2.34	0.0	0.0
88	48	2.237e+05	0.0	-0.69	-2458.60	0.0	-582.26	1229.30	0.0	2.34	0.0	0.0
		0.0	0.0	-2.94e-04	0.0	727.8	-28.21	-1229.30	0.0	2.34	0.0	0.0
89	2	7.884e+05	0.0	-2.45	-8665.99	0.0	-2043.83	4332.99	0.0	5.29	0.0	0.0
		0.0	0.0	-8.23e-05	0.0	727.8	-90.93	-4332.99	0.0	5.29	0.0	0.0
89	23	4.030e+05	0.0	-1.25	-4429.97	0.0	-1137.24	2214.98	0.0	2.25	0.0	0.0
		0.0	0.0	-8.66e-04	0.0	727.8	89.86	-2214.98	0.0	2.25	0.0	0.0
89	24	5.495e+05	0.0	-1.71	-6040.33	0.0	-1528.06	3020.17	0.0	4.26	0.0	0.0
		0.0	0.0	-7.71e-04	0.0	727.8	61.94	-3020.17	0.0	4.26	0.0	0.0
89	35	2.488e+05	0.0	-0.77	-2735.29	0.0	-721.74	1367.64	0.0	-0.76	0.0	0.0
		0.0	0.0	-5.85e-04	0.0	727.8	123.46	-1367.64	0.0	-0.76	0.0	0.0
89	38	7.330e+05	0.0	-2.27	-8056.82	0.0	-2070.77	4028.41	0.0	6.21	0.0	0.0
		0.0	0.0	2.40e-04	0.0	727.8	-117.87	-4028.41	0.0	6.21	0.0	0.0
89	47	3.637e+05	0.0	-1.13	-3998.19	0.0	-926.98	1999.09	0.0	0.97	0.0	0.0
		0.0	0.0	-1.99e-04	0.0	727.8	-25.98	-1999.09	0.0	0.97	0.0	0.0
89	48	3.637e+05	0.0	-1.13	-3998.19	0.0	-926.98	1999.09	0.0	0.97	0.0	0.0
		0.0	0.0	-1.99e-04	0.0	727.8	-25.98	-1999.09	0.0	0.97	0.0	0.0
90	2	4.609e+05	0.0	-1.43	-5066.25	0.0	-1404.63	2533.13	0.0	-5.64	0.0	0.0
		0.0	0.0	3.31e-04	0.0	727.8	-262.94	-2533.13	0.0	-5.64	0.0	0.0
90	8	4.086e+05	0.0	-1.27	-4491.47	0.0	-1314.20	2245.73	0.0	-5.60	0.0	0.0
		0.0	0.0	8.74e-04	0.0	727.8	-172.51	-2245.73	0.0	-5.60	0.0	0.0
90	12	2.908e+05	0.0	-0.90	-3196.60	0.0	-989.21	1598.30	0.0	-5.59	0.0	0.0
		0.0	0.0	1.02e-03	0.0	727.8	-52.97	-1598.30	0.0	-5.59	0.0	0.0
90	25	1.172e+05	0.0	-0.36	-1288.56	0.0	-450.65	644.28	0.0	-2.03	0.0	0.0
		0.0	0.0	-8.07e-04	0.0	727.8	55.61	-644.28	0.0	-2.03	0.0	0.0
90	47	2.171e+05	0.0	-0.67	-2386.71	0.0	-645.08	1193.35	0.0	-4.17	0.0	0.0
		0.0	0.0	-6.65e-05	0.0	727.8	-107.23	-1193.35	0.0	-4.17	0.0	0.0
90	48	2.171e+05	0.0	-0.67	-2386.71	0.0	-645.08	1193.35	0.0	-4.17	0.0	0.0
		0.0	0.0	-6.65e-05	0.0	727.8	-107.23	-1193.35	0.0	-4.17	0.0	0.0
91	2	7.032e+05	0.0	-2.19	-7729.25	0.0	-2431.44	3864.63	0.0	-11.43	0.0	0.0
		0.0	0.0	7.25e-04	0.0	727.8	-689.64	-3864.63	0.0	-11.43	0.0	0.0
91	23	3.613e+05	0.0	-1.12	-3971.49	0.0	-1384.99	1985.75	0.0	-7.17	0.0	0.0
		0.0	0.0	-8.58e-04	0.0	727.8	-287.04	-1985.75	0.0	-7.17	0.0	0.0
91	35	2.237e+05	0.0	-0.69	-2458.53	0.0	-793.86	1229.26	0.0	-5.80	0.0	0.0
		0.0	0.0	-1.86e-04	0.0	727.8	-36.86	-1229.26	0.0	-5.80	0.0	0.0
91	38	6.540e+05	0.0	-2.03	-7188.86	0.0	-2512.54	3594.43	0.0	-9.59	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



		0.0	0.0	8.18e-04	0.0	727.8	-770.74	-3594.43	0.0	-9.59	0.0	0.0
91	43	3.613e+05	0.0	-1.13	-3971.49	0.0	-1665.01	1985.75	0.0	-6.47	0.0	0.0
		0.0	0.0	2.11e-04	0.0	727.8	-567.06	-1985.75	0.0	-6.47	0.0	0.0
91	47	3.256e+05	0.0	-1.01	-3578.84	0.0	-1126.07	1789.42	0.0	-7.00	0.0	0.0
		0.0	0.0	5.01e-05	0.0	727.8	-319.57	-1789.42	0.0	-7.00	0.0	0.0
91	48	3.256e+05	0.0	-1.01	-3578.84	0.0	-1126.07	1789.42	0.0	-7.00	0.0	0.0
		0.0	0.0	5.01e-05	0.0	727.8	-319.57	-1789.42	0.0	-7.00	0.0	0.0
92	2	4.609e+05	0.0	-1.43	-5066.25	0.0	-1528.02	2533.13	0.0	17.42	0.0	0.0
		0.0	0.0	1.82e-03	0.0	727.8	-386.33	-2533.13	0.0	17.42	0.0	0.0
92	23	2.079e+05	0.0	-0.64	-2284.93	0.0	-778.79	1142.46	0.0	8.63	0.0	0.0
		0.0	0.0	-5.16e-04	0.0	727.8	-48.00	-1142.46	0.0	8.63	0.0	0.0
92	25	1.172e+05	0.0	-0.36	-1288.56	0.0	-487.37	644.28	0.0	6.12	0.0	0.0
		0.0	0.0	-6.84e-04	0.0	727.8	18.89	-644.28	0.0	6.12	0.0	0.0
92	33	2.079e+05	0.0	-0.64	-2284.93	0.0	-799.54	1142.46	0.0	5.70	0.0	0.0
		0.0	0.0	4.57e-04	0.0	727.8	-68.75	-1142.46	0.0	5.70	0.0	0.0
92	38	4.086e+05	0.0	-1.26	-4491.47	0.0	-1488.18	2245.73	0.0	17.62	0.0	0.0
		0.0	0.0	1.70e-03	0.0	727.8	-346.49	-2245.73	0.0	17.62	0.0	0.0
92	47	2.171e+05	0.0	-0.67	-2386.71	0.0	-707.91	1193.35	0.0	6.80	0.0	0.0
		0.0	0.0	4.98e-04	0.0	727.8	-170.06	-1193.35	0.0	6.80	0.0	0.0
92	48	2.171e+05	0.0	-0.67	-2386.71	0.0	-707.91	1193.35	0.0	6.80	0.0	0.0
		0.0	0.0	4.98e-04	0.0	727.8	-170.06	-1193.35	0.0	6.80	0.0	0.0
93	2	7.884e+05	0.0	-2.44	-8665.99	0.0	-2276.38	4332.99	0.0	21.16	0.0	0.0
		0.0	0.0	2.76e-03	0.0	727.8	-323.48	-4332.99	0.0	21.16	0.0	0.0
93	3	3.412e+05	0.0	-1.06	-3750.58	0.0	-976.20	1875.29	0.0	7.74	0.0	0.0
		0.0	0.0	8.13e-04	0.0	727.8	-131.00	-1875.29	0.0	7.74	0.0	0.0
93	8	7.330e+05	0.0	-2.27	-8056.82	0.0	-2178.51	4028.41	-4.72e-05	18.94	0.0	0.0
		0.0	0.0	2.97e-03	0.0	727.8	-225.61	-4028.41	-4.72e-05	18.94	0.0	0.0
93	12	5.495e+05	0.0	-1.70	-6040.33	0.0	-1681.80	3020.17	-7.86e-05	12.26	0.0	0.0
		0.0	0.0	2.28e-03	0.0	727.8	-91.80	-3020.17	-7.86e-05	12.26	0.0	0.0
93	25	2.488e+05	0.0	-0.77	-2735.29	0.0	-812.33	1367.64	-7.86e-05	5.83	0.0	0.0
		0.0	0.0	-6.33e-04	0.0	727.8	32.87	-1367.64	-7.86e-05	5.83	0.0	0.0
93	47	3.637e+05	0.0	-1.13	-3998.19	0.0	-1038.97	1999.09	0.0	8.05	0.0	0.0
		0.0	0.0	8.34e-04	0.0	727.8	-137.97	-1999.09	0.0	8.05	0.0	0.0
93	48	3.637e+05	0.0	-1.13	-3998.19	0.0	-1038.97	1999.09	0.0	8.05	0.0	0.0
		0.0	0.0	8.34e-04	0.0	727.8	-137.97	-1999.09	0.0	8.05	0.0	0.0
94	2	4.755e+05	0.0	-1.48	-5226.84	0.0	-1301.22	2613.42	0.0	12.40	0.0	0.0
		0.0	0.0	3.35e-03	0.0	727.8	-123.34	-2613.42	0.0	12.40	0.0	0.0
94	8	4.214e+05	0.0	-1.31	-4632.40	0.0	-1223.77	2316.20	0.0	10.76	0.0	0.0
		0.0	0.0	3.44e-03	0.0	727.8	-45.89	-2316.20	0.0	10.76	0.0	0.0
94	18	4.214e+05	0.0	-1.31	-4632.40	0.0	-1222.69	2316.20	0.0	11.75	0.0	0.0
		0.0	0.0	2.36e-03	0.0	727.8	-44.81	-2316.20	0.0	11.75	0.0	0.0
94	25	1.204e+05	0.0	-0.37	-1322.90	0.0	-431.72	661.45	0.0	2.69	0.0	0.0
		0.0	0.0	-6.91e-04	0.0	727.8	89.66	-661.45	0.0	2.69	0.0	0.0
94	38	4.214e+05	0.0	-1.31	-4632.40	0.0	-1304.80	2316.20	0.0	9.93	0.0	0.0
		0.0	0.0	2.78e-03	0.0	727.8	-126.93	-2316.20	0.0	9.93	0.0	0.0
94	47	2.237e+05	0.0	-0.69	-2458.60	0.0	-597.79	1229.30	0.0	3.83	0.0	0.0
		0.0	0.0	9.84e-04	0.0	727.8	-43.74	-1229.30	0.0	3.83	0.0	0.0
94	48	2.237e+05	0.0	-0.69	-2458.60	0.0	-597.79	1229.30	0.0	3.83	0.0	0.0
		0.0	0.0	9.84e-04	0.0	727.8	-43.74	-1229.30	0.0	3.83	0.0	0.0
95	2	5.634e+05	0.0	-1.71	-2066.13	0.0	-2059.47	4129.67	0.0	11.40	0.0	0.0
		0.0	0.0	9.05e-04	0.0	182.0	-1593.87	2063.54	0.0	11.40	0.0	5.634e+05
95	12	3.930e+05	0.0	-1.19	-1441.48	0.0	-1539.37	2880.87	0.0	4.39	0.0	0.0
		0.0	0.0	6.37e-04	0.0	182.0	-1160.09	1439.39	0.0	4.39	0.0	3.930e+05
95	35	1.783e+05	0.0	-0.54	-654.17	0.0	-741.75	1307.26	0.0	3.86	0.0	0.0
		0.0	0.0	2.72e-04	0.0	182.0	-539.90	653.09	0.0	3.86	0.0	1.783e+05
95	47	2.603e+05	0.0	-0.79	-954.62	0.0	-942.20	1908.07	0.0	3.35	0.0	0.0
		0.0	0.0	2.61e-04	0.0	182.0	-727.07	953.45	0.0	3.35	0.0	2.603e+05
95	48	2.603e+05	0.0	-0.79	-954.62	0.0	-942.20	1908.07	0.0	3.35	0.0	0.0
		0.0	0.0	2.61e-04	0.0	182.0	-727.07	953.45	0.0	3.35	0.0	2.603e+05
118	2	7.519e+05	0.0	0.70	-2066.13	0.0	-1133.76	-2.60	0.0	2.03	0.0	0.0
		5.634e+05	0.0	-2.32e-04	0.0	182.0	-668.15	-2068.73	0.0	2.03	0.0	5.634e+05
118	8	6.991e+05	0.0	0.65	-1921.21	0.0	-1052.02	-2.59	0.0	0.53	0.0	0.0
		5.239e+05	0.0	-1.24e-04	0.0	182.0	-586.41	-1923.80	0.0	0.53	0.0	5.239e+05
118	13	2.381e+05	0.0	0.22	-654.17	0.0	-346.76	-1.08	0.0	-2.94	0.0	0.0
		1.783e+05	0.0	6.66e-05	0.0	182.0	-144.91	-655.25	0.0	-2.94	0.0	1.783e+05
118	25	2.381e+05	0.0	0.22	-654.17	0.0	-349.43	-1.08	0.0	2.23	0.0	0.0
		1.783e+05	0.0	-1.35e-04	0.0	182.0	-147.58	-655.25	0.0	2.23	0.0	1.783e+05
118	35	2.381e+05	0.0	0.22	-654.17	0.0	-325.84	-1.08	0.0	-1.66	0.0	0.0
		1.783e+05	0.0	-1.88e-04	0.0	182.0	-123.99	-655.25	0.0	-1.66	0.0	1.783e+05
118	38	6.991e+05	0.0	0.65	-1921.21	0.0	-1138.00	-2.59	0.0	3.02	0.0	0.0
		5.239e+05	0.0	-1.51e-04	0.0	182.0	-672.39	-1923.80	0.0	3.02	0.0	5.239e+05
118	47	3.474e+05	0.0	0.32	-954.62	0.0	-514.12	-1.16	0.0	-0.48	0.0	0.0
		2.603e+05	0.0	-1.19e-04	0.0	182.0	-299.00	-955.78	0.0	-0.48	0.0	2.603e+05
118	48	3.474e+05	0.0	0.32	-954.62	0.0	-514.12	-1.16	0.0	-0.48	0.0	0.0
		2.603e+05	0.0	-1.19e-04	0.0	182.0	-299.00	-955.78	0.0	-0.48	0.0	2.603e+05

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



119	2	7.519e+05	0.0	0.70	-2066.13	0.0	-1128.26	-2.60	0.0	11.40	0.0	7.519e+05
		5.634e+05	0.0	8.87e-04	0.0	182.0	-662.65	-2068.73	0.0	11.40	0.0	5.634e+05
119	8	6.991e+05	0.0	0.65	-1921.21	0.0	-1049.36	-2.59	0.0	9.29	0.0	6.991e+05
		5.239e+05	0.0	8.82e-04	0.0	182.0	-583.76	-1923.80	0.0	9.29	0.0	5.239e+05
119	13	2.381e+05	0.0	0.22	-654.17	0.0	-349.63	-1.08	0.0	-0.22	0.0	2.381e+05
		1.783e+05	0.0	2.47e-04	0.0	182.0	-147.78	-655.25	0.0	-0.22	0.0	1.783e+05
119	25	2.381e+05	0.0	0.22	-654.17	0.0	-345.68	-1.08	0.0	2.73	0.0	2.381e+05
		1.783e+05	0.0	-1.66e-04	0.0	182.0	-143.83	-655.25	0.0	2.73	0.0	1.783e+05
119	35	2.381e+05	0.0	0.22	-654.17	0.0	-338.05	-1.08	0.0	3.86	0.0	2.381e+05
		1.783e+05	0.0	2.90e-04	0.0	182.0	-136.20	-655.25	0.0	3.86	0.0	1.783e+05
119	47	3.474e+05	0.0	0.32	-954.62	0.0	-511.95	-1.16	0.0	3.35	0.0	3.474e+05
		2.603e+05	0.0	2.61e-04	0.0	182.0	-296.82	-955.78	0.0	3.35	0.0	2.603e+05
119	48	3.474e+05	0.0	0.32	-954.62	0.0	-511.95	-1.16	0.0	3.35	0.0	3.474e+05
		2.603e+05	0.0	2.61e-04	0.0	182.0	-296.82	-955.78	0.0	3.35	0.0	2.603e+05
120	2	7.519e+05	0.0	-0.63	-2066.13	0.0	-1599.37	2063.54	0.0	2.03	0.0	5.644e+05
		5.644e+05	0.0	-2.32e-04	0.0	182.0	-1133.76	-2.60	0.0	2.03	0.0	7.519e+05
120	12	5.246e+05	0.0	-0.44	-1441.48	0.0	-1159.65	1439.39	0.0	-1.82	0.0	3.938e+05
		3.938e+05	0.0	-1.56e-05	0.0	182.0	-780.38	-2.09	0.0	-1.82	0.0	5.246e+05
120	13	2.381e+05	0.0	-0.20	-654.17	0.0	-548.61	653.09	0.0	-2.94	0.0	1.787e+05
		1.787e+05	0.0	6.66e-05	0.0	182.0	-346.76	-1.08	0.0	-2.94	0.0	2.381e+05
120	25	2.381e+05	0.0	-0.20	-654.17	0.0	-551.28	653.09	0.0	2.23	0.0	1.787e+05
		1.787e+05	0.0	-1.35e-04	0.0	182.0	-349.43	-1.08	0.0	2.23	0.0	2.381e+05
120	35	2.381e+05	0.0	-0.20	-654.17	0.0	-527.69	653.09	0.0	-1.66	0.0	1.787e+05
		1.787e+05	0.0	-1.88e-04	0.0	182.0	-325.84	-1.08	0.0	-1.66	0.0	2.381e+05
120	38	6.991e+05	0.0	-0.59	-1921.21	0.0	-1603.60	1918.61	0.0	3.02	0.0	5.248e+05
		5.248e+05	0.0	-1.51e-04	0.0	182.0	-1138.00	-2.59	0.0	3.02	0.0	6.991e+05
120	47	3.474e+05	0.0	-0.29	-954.62	0.0	-729.25	953.45	0.0	-0.48	0.0	2.608e+05
		2.608e+05	0.0	-1.19e-04	0.0	182.0	-514.12	-1.16	0.0	-0.48	0.0	3.474e+05
120	48	3.474e+05	0.0	-0.29	-954.62	0.0	-729.25	953.45	0.0	-0.48	0.0	2.608e+05
		2.608e+05	0.0	-1.19e-04	0.0	182.0	-514.12	-1.16	0.0	-0.48	0.0	3.474e+05
121	2	7.519e+05	0.0	-0.63	-2066.13	0.0	-1593.87	2063.54	0.0	11.40	0.0	5.644e+05
		5.644e+05	0.0	8.87e-04	0.0	182.0	-1128.26	-2.60	0.0	11.40	0.0	7.519e+05
121	12	5.246e+05	0.0	-0.44	-1441.48	0.0	-1160.09	1439.39	0.0	4.39	0.0	3.938e+05
		3.938e+05	0.0	6.08e-04	0.0	182.0	-780.82	-2.09	0.0	4.39	0.0	5.246e+05
121	13	2.381e+05	0.0	-0.20	-654.17	0.0	-551.48	653.09	0.0	-0.22	0.0	1.787e+05
		1.787e+05	0.0	2.47e-04	0.0	182.0	-349.63	-1.08	0.0	-0.22	0.0	2.381e+05
121	25	2.381e+05	0.0	-0.20	-654.17	0.0	-547.53	653.09	0.0	2.73	0.0	1.787e+05
		1.787e+05	0.0	-1.66e-04	0.0	182.0	-345.68	-1.08	0.0	2.73	0.0	2.381e+05
121	35	2.381e+05	0.0	-0.20	-654.17	0.0	-539.90	653.09	0.0	3.86	0.0	1.787e+05
		1.787e+05	0.0	2.90e-04	0.0	182.0	-338.05	-1.08	0.0	3.86	0.0	2.381e+05
121	47	3.474e+05	0.0	-0.29	-954.62	0.0	-727.07	953.45	0.0	3.35	0.0	2.608e+05
		2.608e+05	0.0	2.61e-04	0.0	182.0	-511.95	-1.16	0.0	3.35	0.0	3.474e+05
121	48	3.474e+05	0.0	-0.29	-954.62	0.0	-727.07	953.45	0.0	3.35	0.0	2.608e+05
		2.608e+05	0.0	2.61e-04	0.0	182.0	-511.95	-1.16	0.0	3.35	0.0	3.474e+05
122	2	5.644e+05	0.0	1.63	-2066.13	0.0	-668.15	-2068.73	0.0	2.03	0.0	5.644e+05
		0.0	0.0	2.21e-05	0.0	182.0	-202.55	-4134.86	0.0	2.03	0.0	0.0
122	11	2.891e+05	0.0	0.84	-1058.37	0.0	-270.31	-1059.96	0.0	-3.17	0.0	2.891e+05
		0.0	0.0	1.03e-04	0.0	182.0	22.63	-2118.33	0.0	-3.17	0.0	0.0
122	13	1.787e+05	0.0	0.52	-654.17	0.0	-144.91	-655.25	0.0	-2.94	0.0	1.787e+05
		0.0	0.0	1.23e-04	0.0	182.0	56.94	-1309.42	0.0	-2.94	0.0	0.0
122	25	1.787e+05	0.0	0.52	-654.17	0.0	-147.58	-655.25	0.0	2.23	0.0	1.787e+05
		0.0	0.0	-9.64e-05	0.0	182.0	54.27	-1309.42	0.0	2.23	0.0	0.0
122	35	1.787e+05	0.0	0.52	-654.17	0.0	-123.99	-655.25	0.0	-1.66	0.0	1.787e+05
		0.0	0.0	-1.71e-04	0.0	182.0	77.86	-1309.42	0.0	-1.66	0.0	0.0
122	38	5.248e+05	0.0	1.52	-1921.21	0.0	-672.39	-1923.80	0.0	3.02	0.0	5.248e+05
		0.0	0.0	1.23e-04	0.0	182.0	-206.78	-3845.01	0.0	3.02	0.0	0.0
122	47	2.608e+05	0.0	0.75	-954.62	0.0	-299.00	-955.78	0.0	-0.48	0.0	2.608e+05
		0.0	0.0	-5.01e-05	0.0	182.0	-83.87	-1910.40	0.0	-0.48	0.0	0.0
122	48	2.608e+05	0.0	0.75	-954.62	0.0	-299.00	-955.78	0.0	-0.48	0.0	2.608e+05
		0.0	0.0	-5.01e-05	0.0	182.0	-83.87	-1910.40	0.0	-0.48	0.0	0.0
123	2	5.644e+05	0.0	1.63	-2066.13	0.0	-662.65	-2068.73	0.0	11.40	0.0	5.644e+05
		0.0	0.0	1.12e-03	0.0	182.0	-197.04	-4134.86	0.0	11.40	0.0	0.0
123	18	5.248e+05	0.0	1.52	-1921.21	0.0	-581.38	-1923.80	0.0	11.06	0.0	5.248e+05
		0.0	0.0	8.59e-04	0.0	182.0	-115.78	-3845.01	0.0	11.06	0.0	0.0
123	23	2.891e+05	0.0	0.84	-1058.37	0.0	-267.98	-1059.96	0.0	3.85	0.0	2.891e+05
		0.0	0.0	-1.50e-05	0.0	182.0	24.96	-2118.33	0.0	3.85	0.0	0.0
123	35	1.787e+05	0.0	0.52	-654.17	0.0	-136.20	-655.25	0.0	3.86	0.0	1.787e+05
		0.0	0.0	3.52e-04	0.0	182.0	65.65	-1309.42	0.0	3.86	0.0	0.0
123	45	1.787e+05	0.0	0.52	-654.17	0.0	-263.89	-655.25	0.0	-1.31	0.0	1.787e+05
		0.0	0.0	-4.84e-05	0.0	182.0	-62.04	-1309.42	0.0	-1.31	0.0	0.0
123	47	2.608e+05	0.0	0.75	-954.62	0.0	-296.82	-955.78	0.0	3.35	0.0	2.608e+05
		0.0	0.0	3.22e-04	0.0	182.0	-81.70	-1910.40	0.0	3.35	0.0	0.0
123	48	2.608e+05	0.0	0.75	-954.62	0.0	-296.82	-955.78	0.0	3.35	0.0	2.608e+05
		0.0	0.0	3.22e-04	0.0	182.0	-81.70	-1910.40	0.0	3.35	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



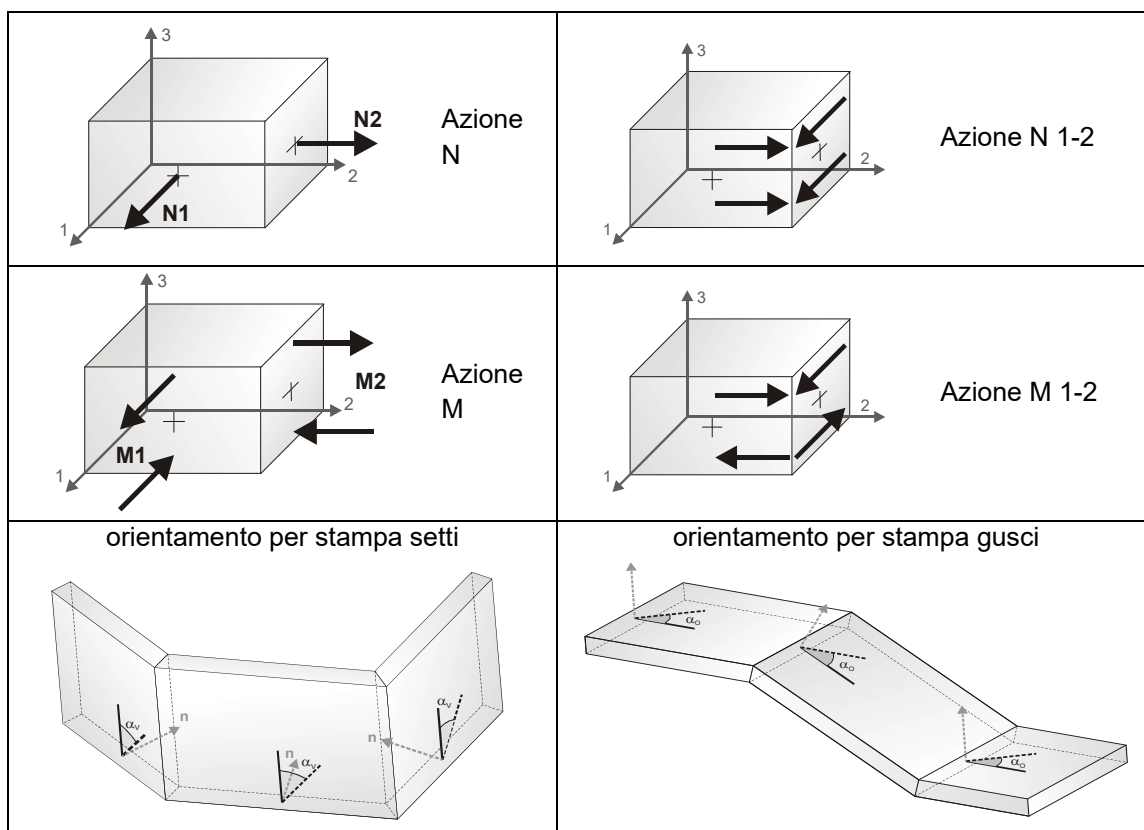
Trave	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	0.0	0.0	-2.45	-8665.99	-2512.54	-4332.99	-7.86e-05	-11.43
	7.884e+05	0.0	1.63	0.0	123.46	4332.99	0.0	21.16

RISULTATI ELEMENTI TIPO SHELL

LEGENDA RISULTATI ELEMENTI TIPO SHELL

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo shell, è possibile in relazione alle tabelle sottoriportate.

Per ogni elemento, e per ogni combinazione(o caso di carico) vengono riportati i risultati più significativi.



In particolare vengono riportati in ogni nodo di un elemento per ogni combinazione:

tensione di Von Mises	(valore riassuntivo del complessivo stato di sollecitazione)	
N max	sforzo membranale principale massimo	
N min	sforzo membranale principale minimo	
M max	sforzo flessionale principale massimo	
M min	sforzo flessionale principale minimo	
N1	N2	sforzi membranali e flessionali in direzione locale 1 e 2 dell'elemento
N1-2	M1	(lo sforzo 2-1 è uguale allo sforzo 1-2 per la reciprocità delle tensioni tangenziali)
M2	M1-2	

I suddetti risultati possono a scelta del progettista essere preceduti o sostituiti da valori di sollecitazione non più riferiti al sistema locale dell'elemento ma al sistema globale.

In questo caso gli elementi vengono raggruppati in gruppi (M_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi. I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di α_o attorno all'asse Z per i gusci e ruotata di α_v attorno alla normale (che per definizione è orizzontale) al piano del setto.

Per i setti, in particolare, se α_v è zero, l'asse '1-1 rappresenta la verticale e l'asse '2-2 l'orizzontale contenuta nel setto.

Le azioni sui setti possono essere espresse anche con formato macro, cioè riferite all'intero macroelemento.

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



In particolare vengono riportati per ogni quota Z dei nodi e per ogni combinazione i seguenti valori:

N memb.	Azione membranale complessiva agente sulla parete in direzione Z
V memb.	Azione complessiva di taglio agente nel piano del macroelemento
V orto	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
M memb.	Azione flessionale complessiva agente nel piano del macroelemento
M orto	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
T	Azione torsionale complessiva agente nel piano orizzontale

Macro	Tipo	Angolo 1-Z (gradi)
64	Setto	0.0

M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
64	2	0.0	-8195.08	-209.50	-106.01	-1.707e+05	-501.11	-319.58
64	2	32.50	-7966.70	-223.69	-106.01	-1.655e+05	-1303.38	-317.78
64	2	45.00	-7854.97	-226.56	-103.06	-1.577e+05	-1625.82	-296.66
64	2	130.00	-6788.86	-320.91	-29.45	-1.462e+05	-1912.41	-1.01
64	2	215.00	-5608.96	-325.06	-14.99	-1.398e+05	-1159.58	119.77
64	2	305.00	-4239.06	-143.27	-21.48	5.575e+04	-302.72	57.99
64	2	400.00	-2032.69	-47.16	-26.96	2.000e+04	-46.64	82.00
64	18	0.0	-7700.93	-344.56	-98.57	-1.728e+05	-468.22	-303.45
64	18	32.50	-7489.15	-357.53	-98.57	-1.662e+05	-1218.83	-301.29
64	18	45.00	-7382.48	-360.24	-95.87	-1.576e+05	-1520.36	-281.86
64	18	130.00	-6367.65	-450.16	-27.30	-1.394e+05	-1789.81	-2.12
64	18	215.00	-5235.42	-461.41	-14.11	-1.259e+05	-1078.55	117.66
64	18	305.00	-3947.38	-279.75	-20.21	5.450e+04	-267.18	54.36
64	18	400.00	-1876.11	-153.67	-26.80	1.790e+04	-23.97	74.01
64	25	0.0	-2248.27	-295.53	-26.94	-7.438e+04	-111.75	-54.77
64	25	32.50	-2189.73	-297.08	-26.94	-6.939e+04	-289.09	-53.47
64	25	45.00	-2146.43	-296.34	-25.99	-6.237e+04	-362.45	-45.18
64	25	130.00	-1829.64	-312.96	-9.46	-4.752e+04	-397.46	3.85
64	25	215.00	-1453.80	-324.26	-4.95	-3.210e+04	-176.99	13.88
64	25	305.00	-1052.50	-276.61	-6.95	1.481e+04	64.21	20.57
64	25	400.00	-440.19	-200.25	-13.16	1644.85	53.67	20.13
64	47	0.0	-3203.39	-74.44	-41.12	-7.453e+04	-173.91	-85.78
64	47	32.50	-3113.33	-78.16	-41.12	-7.156e+04	-448.93	-85.10
64	47	45.00	-3060.10	-77.75	-39.67	-6.591e+04	-561.94	-73.50
64	47	130.00	-2642.55	-102.68	-13.66	-6.192e+04	-628.23	5.63
64	47	215.00	-2170.56	-102.10	-6.78	-5.789e+04	-324.71	18.25
64	47	305.00	-1611.64	-52.16	-9.61	1.766e+04	7.45	27.88
64	47	400.00	-737.34	-24.64	-14.25	5381.96	16.69	35.04
64	48	0.0	-3203.39	-74.44	-41.12	-7.453e+04	-173.91	-85.78
64	48	32.50	-3113.33	-78.16	-41.12	-7.156e+04	-448.93	-85.10
64	48	45.00	-3060.10	-77.75	-39.67	-6.591e+04	-561.94	-73.50
64	48	130.00	-2642.55	-102.68	-13.66	-6.192e+04	-628.23	5.63
64	48	215.00	-2170.56	-102.10	-6.78	-5.789e+04	-324.71	18.25
64	48	305.00	-1611.64	-52.16	-9.61	1.766e+04	7.45	27.88
64	48	400.00	-737.34	-24.64	-14.25	5381.96	16.69	35.04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-8195.08	-461.41	-106.01	-1.728e+05	-1912.41	-319.58
			-440.19	-24.64	-4.95	5.575e+04	64.21	119.77

Macro	Tipo	Angolo 1-Z (gradi)
45	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
45	2	0.0	-6290.80	-188.79	-56.13	-8.077e+04	-418.52	122.80
45	2	32.50	-6029.65	-186.53	-56.13	-5.512e+04	-982.70	93.81
45	2	130.00	-5028.79	-205.18	-21.31	-1.145e+05	-742.63	45.56
45	2	215.00	-4431.47	-262.06	-22.51	-1.172e+05	-128.86	60.57
45	2	215.85	-4396.50	-271.27	-22.47	-1.225e+05	-113.06	56.27
45	2	217.50	-4253.98	-231.29	-22.35	-1.273e+05	-90.70	14.71
45	2	305.00	-3510.41	-278.55	-23.72	2.110e+04	301.97	-107.57
45	2	400.00	-2041.00	-348.21	-33.03	-5.295e+04	-72.50	15.76
45	13	0.0	-2099.10	111.05	-23.04	3.401e+04	-139.58	56.61
45	13	32.50	-2005.27	106.59	-23.04	3.970e+04	-369.20	34.80
45	13	130.00	-1638.18	87.29	-9.02	-2555.72	-265.72	-9.38
45	13	215.00	-1393.41	69.96	-8.56	-2.184e+04	16.38	26.17
45	13	215.85	-1372.03	50.51	-8.81	-2.537e+04	23.45	26.80
45	13	217.50	-1326.57	32.37	-8.36	-2.736e+04	30.62	8.95
45	13	305.00	-1028.92	125.19	-8.10	2.002e+04	256.01	-22.67
45	13	400.00	-481.88	111.30	-14.32	9071.96	89.27	2.51
45	18	0.0	-5853.58	-268.35	-52.68	-8.219e+04	-388.47	104.74
45	18	32.50	-5616.84	-261.98	-52.68	-5.847e+04	-904.61	79.06
45	18	130.00	-4685.46	-272.01	-20.54	-1.080e+05	-676.79	47.30
45	18	215.00	-4123.75	-322.99	-21.57	-1.051e+05	-103.25	58.14
45	18	215.85	-4089.41	-321.79	-21.32	-1.102e+05	-88.94	53.15
45	18	217.50	-3947.80	-268.54	-21.40	-1.150e+05	-69.51	11.87
45	18	305.00	-3255.53	-318.94	-22.39	2.256e+04	331.02	-94.27
45	18	400.00	-1873.03	-397.39	-32.10	-4.828e+04	-29.54	28.96
45	47	0.0	-2754.61	-83.53	-28.42	8566.63	-180.89	66.47
45	47	32.50	-2650.07	-80.80	-28.42	1.720e+04	-458.48	45.03
45	47	130.00	-2217.72	-87.90	-11.29	-1.928e+04	-344.57	7.83
45	47	215.00	-1945.06	-104.17	-11.24	-2.819e+04	-42.92	37.31
45	47	215.85	-1923.39	-106.47	-11.15	-3.161e+04	-34.88	35.89
45	47	217.50	-1850.85	-92.06	-11.00	-3.429e+04	-24.56	13.48
45	47	305.00	-1508.99	-31.92	-10.43	3.054e+04	249.72	-40.18
45	47	400.00	-808.00	-82.39	-17.24	341.15	30.40	-3.93
45	48	0.0	-2754.61	-83.53	-28.42	8566.63	-180.89	66.47
45	48	32.50	-2650.07	-80.80	-28.42	1.720e+04	-458.48	45.03
45	48	130.00	-2217.72	-87.90	-11.29	-1.928e+04	-344.57	7.83
45	48	215.00	-1945.06	-104.17	-11.24	-2.819e+04	-42.92	37.31
45	48	215.85	-1923.39	-106.47	-11.15	-3.161e+04	-34.88	35.89
45	48	217.50	-1850.85	-92.06	-11.00	-3.429e+04	-24.56	13.48
45	48	305.00	-1508.99	-31.92	-10.43	3.054e+04	249.72	-40.18
45	48	400.00	-808.00	-82.39	-17.24	341.15	30.40	-3.93
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6290.80	-397.39	-56.13	-1.273e+05	-982.70	-107.57
			-481.88	125.19	-8.10	3.970e+04	331.02	122.80

Macro	Tipo	Angolo 1-Z (gradi)
38	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
38	2	0.0	-1.192e+04	359.87	-144.15	-6.701e+05	-888.38	159.65
38	2	32.50	-1.145e+04	374.99	-144.15	-6.645e+05	-1906.71	146.28
38	2	45.00	-1.107e+04	379.22	-97.14	4.758e+04	-2259.32	311.25
38	2	130.00	-9496.87	512.05	-49.92	6.761e+04	-1804.95	-137.33
38	2	215.00	-8172.17	569.54	-35.64	1.280e+05	-828.75	-166.56
38	2	217.50	-7795.53	459.21	-37.99	4.694e+05	-730.28	-18.68
38	2	305.00	-6537.35	304.49	-37.09	-1.169e+05	-12.56	130.23
38	2	400.00	-3664.91	250.61	-46.19	-2.844e+04	-86.64	-11.91
38	8	0.0	-1.116e+04	518.55	-134.17	-6.222e+05	-824.92	159.52
38	8	32.50	-1.073e+04	526.54	-134.17	-6.179e+05	-1762.73	143.63
38	8	45.00	-1.037e+04	526.18	-90.95	4.800e+04	-2086.88	294.30
38	8	130.00	-8885.93	645.50	-47.24	6.088e+04	-1664.51	-132.78
38	8	215.00	-7612.38	707.44	-34.22	1.108e+05	-757.01	-164.18
38	8	217.50	-7239.73	590.35	-36.25	4.286e+05	-664.79	-16.68
38	8	305.00	-6067.92	448.18	-35.06	-1.144e+05	38.29	120.24

RELAZIONE DI RESISTENZA AL FUOCO



38	8	400.00	-3368.11	381.83	-45.51	-2.652e+04	-27.98	-16.00
38	13	0.0	-3431.04	399.62	-43.18	-1.343e+05	-222.76	34.77
38	13	32.50	-3318.89	390.86	-43.18	-1.343e+05	-500.03	42.00
38	13	45.00	-3167.32	384.05	-28.29	6.736e+04	-577.38	106.75
38	13	130.00	-2728.59	403.49	-18.37	5.821e+04	-432.29	-30.76
38	13	215.00	-2280.14	431.27	-14.18	5.741e+04	-122.78	-63.20
38	13	217.50	-2095.48	390.35	-14.21	1.508e+05	-88.45	-22.55
38	13	305.00	-1724.38	307.18	-12.56	-1.595e+04	285.15	11.16
38	13	400.00	-806.19	303.36	-22.97	-1520.45	137.95	-15.67
38	47	0.0	-4904.94	142.57	-62.77	-2.233e+05	-343.71	36.83
38	47	32.50	-4718.53	145.89	-62.77	-2.212e+05	-774.41	48.88
38	47	45.00	-4528.35	146.80	-40.53	7.061e+04	-904.83	141.56
38	47	130.00	-3920.96	190.76	-24.07	7.308e+04	-695.91	-39.97
38	47	215.00	-3367.21	211.92	-17.49	9.042e+04	-249.95	-70.30
38	47	217.50	-3172.73	181.23	-18.13	2.292e+05	-203.25	-26.92
38	47	305.00	-2633.23	70.94	-16.92	-2.111e+04	215.52	28.96
38	47	400.00	-1372.95	88.99	-25.58	-4730.74	42.55	-9.64
38	48	0.0	-4904.94	142.57	-62.77	-2.233e+05	-343.71	36.83
38	48	32.50	-4718.53	145.89	-62.77	-2.212e+05	-774.41	48.88
38	48	45.00	-4528.35	146.80	-40.53	7.061e+04	-904.83	141.56
38	48	130.00	-3920.96	190.76	-24.07	7.308e+04	-695.91	-39.97
38	48	215.00	-3367.21	211.92	-17.49	9.042e+04	-249.95	-70.30
38	48	217.50	-3172.73	181.23	-18.13	2.292e+05	-203.25	-26.92
38	48	305.00	-2633.23	70.94	-16.92	-2.111e+04	215.52	28.96
38	48	400.00	-1372.95	88.99	-25.58	-4730.74	42.55	-9.64
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.192e+04	70.94	-144.15	-6.701e+05	-2259.32	-166.56
			-806.19	707.44	-12.56	4.694e+05	285.15	311.25

Macro	Tipo	Angolo 1-Z (gradi)
118	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
118	2	0.0	-1.261e+04	729.96	-0.06	2.721e+04	0.05	-18.89
118	2	32.50	-1.257e+04	732.21	-0.06	1.319e+04	10.51	-31.21
118	2	130.00	-1.266e+04	448.43	-0.22	8.985e+04	-33.05	-36.47
118	2	217.50	-1.250e+04	266.60	-0.62	1.299e+05	-156.54	-0.36
118	2	218.18	-1.248e+04	167.22	1.00	1.282e+05	-154.64	31.48
118	2	218.86	-1.244e+04	161.97	0.96	1.243e+05	-152.86	33.13
118	2	219.55	-1.240e+04	165.98	0.89	1.225e+05	-151.65	33.48
118	2	220.23	-1.235e+04	167.49	0.86	1.241e+05	-150.55	33.78
118	2	220.91	-1.231e+04	167.53	0.82	1.292e+05	-149.34	34.11
118	2	221.59	-1.226e+04	167.16	0.78	1.381e+05	-148.22	34.41
118	2	305.00	-1.223e+04	206.65	0.78	1.313e+05	8.92	67.30
118	2	373.42	-1.169e+04	430.95	-0.12	9.769e+04	1.27	38.63
118	2	377.85	-1.014e+04	466.88	-0.01	-5162.50	0.72	37.30
118	2	382.28	-8357.74	510.94	0.04	-6.053e+04	0.95	33.89
118	2	386.71	-6316.42	549.90	0.04	-7.574e+04	1.72	28.02
118	2	391.14	-4042.39	570.93	-0.03	-6.230e+04	3.23	18.47
118	2	395.57	-1720.93	467.91	-0.16	-3.432e+04	1.37	7.38
118	18	0.0	-1.185e+04	670.02	-0.13	2.862e+04	0.05	-9.00
118	18	32.50	-1.181e+04	672.26	-0.13	1.564e+04	28.30	-23.84
118	18	130.00	-1.189e+04	410.77	-0.33	8.873e+04	-40.06	-43.98
118	18	217.50	-1.174e+04	241.81	-0.80	1.291e+05	-196.91	-0.30
118	18	218.18	-1.172e+04	147.50	1.17	1.292e+05	-194.53	37.87
118	18	218.86	-1.169e+04	142.31	1.13	1.255e+05	-192.61	40.02
118	18	219.55	-1.164e+04	146.09	1.05	1.236e+05	-191.30	40.46
118	18	220.23	-1.160e+04	147.54	1.02	1.253e+05	-189.92	40.81
118	18	220.91	-1.155e+04	147.63	0.98	1.304e+05	-188.43	41.22
118	18	221.59	-1.151e+04	147.34	0.93	1.392e+05	-187.03	41.60
118	18	305.00	-1.148e+04	184.19	0.93	1.326e+05	-1.09	82.46
118	18	373.42	-1.097e+04	389.36	-0.01	1.036e+05	-1.31	49.19
118	18	377.85	-9549.64	433.45	0.09	-318.79	-1.30	47.22
118	18	382.28	-7886.94	485.13	0.15	-5.674e+04	-0.69	43.01
118	18	386.71	-5969.87	530.71	0.15	-7.304e+04	0.68	35.07
118	18	391.14	-3819.62	556.66	0.05	-6.067e+04	3.05	22.78
118	18	395.57	-1617.66	457.92	-0.14	-3.360e+04	1.73	8.44
118	44	0.0	-8150.04	1555.85	-0.11	5.603e+04	0.02	-14.15

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



118	44	32.50	-8046.28	1559.32	-0.11	2.991e+04	6.04	-23.41
118	44	130.00	-7913.67	1349.77	-0.21	5.880e+04	-30.76	-27.81
118	44	217.50	-7623.86	1201.64	-0.49	7.534e+04	-127.81	-0.93
118	44	218.18	-7677.62	1129.51	0.77	9.181e+04	-126.33	23.82
118	44	218.86	-7651.16	1126.41	0.74	8.958e+04	-124.98	25.09
118	44	219.55	-7607.25	1129.30	0.69	8.771e+04	-124.03	25.35
118	44	220.23	-7561.41	1130.47	0.68	8.911e+04	-123.13	25.57
118	44	220.91	-7515.08	1130.59	0.65	9.402e+04	-122.16	25.82
118	44	221.59	-7468.31	1130.36	0.63	1.025e+05	-121.23	26.04
118	44	305.00	-7239.39	1119.85	0.63	6.352e+04	2.48	51.11
118	44	373.42	-6731.87	1149.34	-0.03	3.772e+04	0.40	28.61
118	44	377.85	-5797.37	969.96	0.03	-1.359e+04	0.28	27.63
118	44	382.28	-4739.39	806.54	0.06	-4.017e+04	0.50	25.75
118	44	386.71	-3552.59	654.22	0.06	-4.563e+04	1.13	21.32
118	44	391.14	-2251.03	511.65	-3.17e-05	-3.608e+04	2.34	14.01
118	44	395.57	-949.02	324.92	-0.11	-1.917e+04	1.09	5.11
118	45	0.0	-3063.36	1244.64	-0.09	3.615e+04	2.37e-03	-6.39
118	45	32.50	-2977.09	1247.94	-0.09	1.601e+04	2.58	-10.91
118	45	130.00	-2773.78	1150.31	-0.13	1.449e+04	-17.07	-14.24
118	45	217.50	-2489.03	1073.66	-0.28	1.393e+04	-72.04	-1.50
118	45	218.18	-2526.84	1042.96	0.42	2.548e+04	-71.22	12.19
118	45	218.86	-2504.47	1041.96	0.40	2.347e+04	-70.52	12.86
118	45	219.55	-2470.19	1043.01	0.37	2.202e+04	-70.00	12.99
118	45	220.23	-2434.41	1043.47	0.37	2.310e+04	-69.49	13.09
118	45	220.91	-2398.38	1043.52	0.36	2.687e+04	-68.93	13.22
118	45	221.59	-2362.39	1043.39	0.36	3.334e+04	-68.39	13.33
118	45	305.00	-2146.00	1016.94	0.36	-1174.06	-0.37	26.35
118	45	373.42	-1797.17	966.53	0.02	-1.895e+04	0.16	13.63
118	45	377.85	-1476.96	763.16	0.03	-1.753e+04	0.24	13.13
118	45	382.28	-1155.48	572.12	0.05	-1.504e+04	0.32	12.58
118	45	386.71	-832.09	395.64	0.04	-1.146e+04	0.63	10.29
118	45	391.14	-510.58	239.63	0.01	-7193.62	1.27	6.52
118	45	395.57	-217.48	101.97	-0.05	-3019.40	0.69	1.80
118	47	0.0	-4215.90	193.16	-0.04	-1.941e+04	0.02	-6.36
118	47	32.50	-4204.74	195.97	-0.04	-2.309e+04	6.54	-11.71
118	47	130.00	-4140.07	91.14	-0.10	4129.02	-11.86	-17.13
118	47	217.50	-3921.11	23.42	-0.34	1.392e+04	-81.00	-2.19
118	47	218.18	-3836.39	-5.25	0.53	-5394.02	-79.94	15.07
118	47	218.86	-3795.01	-7.08	0.50	-1.065e+04	-79.08	15.90
118	47	219.55	-3758.63	-6.51	0.46	-1.211e+04	-78.47	16.05
118	47	220.23	-3723.62	-6.36	0.45	-1.069e+04	-77.87	16.17
118	47	220.91	-3688.84	-6.54	0.44	-6547.40	-77.21	16.33
118	47	221.59	-3654.07	-6.88	0.42	325.56	-76.58	16.47
118	47	305.00	-3637.53	6.73	0.42	4018.31	5.90	32.19
118	47	373.42	-3281.05	124.60	-0.03	-2.788e+04	1.46	15.83
118	47	377.85	-2715.41	101.49	2.93e-03	-2.318e+04	1.16	15.18
118	47	382.28	-2148.70	79.83	0.03	-1.823e+04	1.08	13.77
118	47	386.71	-1581.17	61.45	0.03	-1.310e+04	1.33	10.82
118	47	391.14	-1014.83	49.42	-0.01	-8005.12	1.99	6.37
118	47	395.57	-466.91	39.41	-0.08	-3553.29	0.99	1.47
118	48	0.0	-4215.90	193.16	-0.04	-1.941e+04	0.02	-6.36
118	48	32.50	-4204.74	195.97	-0.04	-2.309e+04	6.54	-11.71
118	48	130.00	-4140.07	91.14	-0.10	4129.02	-11.86	-17.13
118	48	217.50	-3921.11	23.42	-0.34	1.392e+04	-81.00	-2.19
118	48	218.18	-3836.39	-5.25	0.53	-5394.02	-79.94	15.07
118	48	218.86	-3795.01	-7.08	0.50	-1.065e+04	-79.08	15.90
118	48	219.55	-3758.63	-6.51	0.46	-1.211e+04	-78.47	16.05
118	48	220.23	-3723.62	-6.36	0.45	-1.069e+04	-77.87	16.17
118	48	220.91	-3688.84	-6.54	0.44	-6547.40	-77.21	16.33
118	48	221.59	-3654.07	-6.88	0.42	325.56	-76.58	16.47
118	48	305.00	-3637.53	6.73	0.42	4018.31	5.90	32.19
118	48	373.42	-3281.05	124.60	-0.03	-2.788e+04	1.46	15.83
118	48	377.85	-2715.41	101.49	2.93e-03	-2.318e+04	1.16	15.18
118	48	382.28	-2148.70	79.83	0.03	-1.823e+04	1.08	13.77
118	48	386.71	-1581.17	61.45	0.03	-1.310e+04	1.33	10.82
118	48	391.14	-1014.83	49.42	-0.01	-8005.12	1.99	6.37
118	48	395.57	-466.91	39.41	-0.08	-3553.29	0.99	1.47

M_S

N memb.
-1.266e+04
-217.48

V memb.
-7.08
1559.32

V orto
-0.80
1.17

M memb.
-7.574e+04
1.392e+05

M orto
-196.91
28.30

T
-43.98
82.46

Macro	Tipo	Angolo 1-Z (gradi)
76	Setto	0.0

M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
76	2	0.0	-1.255e+04	714.02	0.08	2.034e+04	-0.05	22.42
76	2	32.50	-1.252e+04	716.56	0.08	6467.56	-5.89	34.87
76	2	130.00	-1.260e+04	441.40	0.24	8.244e+04	38.92	35.90
76	2	217.50	-1.245e+04	268.20	0.58	1.230e+05	153.50	-1.22
76	2	218.18	-1.244e+04	170.59	-0.94	1.235e+05	151.75	-30.87
76	2	218.86	-1.241e+04	165.42	-0.90	1.198e+05	150.04	-32.44
76	2	219.55	-1.236e+04	169.45	-0.85	1.180e+05	148.91	-32.81
76	2	220.23	-1.232e+04	170.98	-0.83	1.196e+05	147.86	-33.13
76	2	220.91	-1.227e+04	171.03	-0.78	1.248e+05	146.72	-33.47
76	2	221.59	-1.223e+04	170.67	-0.74	1.336e+05	145.71	-33.77
76	2	305.00	-1.220e+04	215.04	-0.74	1.256e+05	-2.79	-66.42
76	2	373.42	-1.167e+04	438.90	0.06	9.536e+04	0.50	-40.09
76	2	377.85	-1.013e+04	474.64	-0.04	-7109.47	0.70	-38.81
76	2	382.28	-8344.39	518.90	-0.09	-6.206e+04	0.22	-35.46
76	2	386.71	-6303.18	557.21	-0.10	-7.679e+04	-0.78	-29.33
76	2	391.14	-4029.74	577.43	-0.03	-6.291e+04	-2.50	-19.25
76	2	395.57	-1712.14	470.64	0.12	-3.456e+04	-1.26	-7.38
76	8	0.0	-1.179e+04	658.73	0.15	2.214e+04	-0.05	12.67
76	8	32.50	-1.175e+04	661.26	0.15	9254.37	-22.76	27.37
76	8	130.00	-1.183e+04	408.21	0.34	8.162e+04	45.06	42.77
76	8	217.50	-1.169e+04	247.59	0.76	1.224e+05	193.33	-1.28
76	8	218.18	-1.169e+04	154.76	-1.10	1.249e+05	191.11	-37.31
76	8	218.86	-1.166e+04	149.65	-1.07	1.214e+05	189.26	-39.37
76	8	219.55	-1.161e+04	153.45	-1.01	1.196e+05	188.02	-39.82
76	8	220.23	-1.157e+04	154.93	-0.98	1.212e+05	186.70	-40.19
76	8	220.91	-1.152e+04	155.03	-0.94	1.263e+05	185.29	-40.61
76	8	221.59	-1.148e+04	154.75	-0.89	1.351e+05	183.99	-40.99
76	8	305.00	-1.145e+04	196.29	-0.89	1.272e+05	7.01	-81.52
76	8	373.42	-1.095e+04	400.42	-0.04	1.013e+05	3.02	-50.58
76	8	377.85	-9535.81	443.70	-0.14	-2201.23	2.67	-48.53
76	8	382.28	-7873.66	494.92	-0.20	-5.823e+04	1.79	-44.38
76	8	386.71	-5956.72	539.26	-0.21	-7.406e+04	0.23	-36.27
76	8	391.14	-3807.07	563.92	-0.11	-6.125e+04	-2.32	-23.46
76	8	395.57	-1608.95	461.15	0.10	-3.382e+04	-1.62	-8.33
76	44	0.0	-8113.04	1551.41	0.11	5.176e+04	-0.02	17.49
76	44	32.50	-8009.81	1555.03	0.11	2.566e+04	-0.02	26.21
76	44	130.00	-7877.56	1350.12	0.21	5.391e+04	34.19	25.43
76	44	217.50	-7592.27	1207.06	0.43	7.042e+04	119.13	-0.97
76	44	218.18	-7651.59	1136.96	-0.70	8.828e+04	117.85	-23.08
76	44	218.86	-7626.07	1134.13	-0.67	8.620e+04	116.57	-24.21
76	44	219.55	-7582.37	1137.05	-0.64	8.434e+04	115.69	-24.47
76	44	220.23	-7536.61	1138.22	-0.62	8.574e+04	114.88	-24.69
76	44	220.91	-7490.31	1138.31	-0.60	9.063e+04	113.99	-24.93
76	44	221.59	-7443.61	1138.04	-0.57	9.911e+04	113.17	-25.14
76	44	305.00	-7215.69	1130.68	-0.57	5.914e+04	0.25	-48.64
76	44	373.42	-6716.63	1164.02	9.31e-03	3.505e+04	0.47	-28.59
76	44	377.85	-5782.61	981.81	-0.05	-1.584e+04	0.46	-27.75
76	44	382.28	-4724.99	816.06	-0.08	-4.194e+04	0.16	-25.86
76	44	386.71	-3538.18	662.34	-0.08	-4.688e+04	-0.59	-21.21
76	44	391.14	-2236.99	519.44	-0.02	-3.681e+04	-1.89	-13.84
76	44	395.57	-938.11	331.10	0.09	-1.945e+04	-0.97	-5.06
76	45	0.0	-3050.17	1246.44	0.08	3.452e+04	-2.66e-03	8.42
76	45	32.50	-2963.82	1249.76	0.08	1.434e+04	1.77	12.32
76	45	130.00	-2759.69	1153.17	0.12	1.246e+04	17.99	12.02
76	45	217.50	-2475.42	1077.96	0.23	1.171e+04	64.13	0.24
76	45	218.18	-2515.15	1048.60	-0.37	2.375e+04	63.44	-11.65
76	45	218.86	-2493.15	1047.85	-0.35	2.180e+04	62.79	-12.21
76	45	219.55	-2458.95	1048.92	-0.34	2.035e+04	62.31	-12.33
76	45	220.23	-2423.19	1049.37	-0.33	2.143e+04	61.87	-12.43
76	45	220.91	-2387.18	1049.39	-0.33	2.520e+04	61.37	-12.54
76	45	221.59	-2351.18	1049.20	-0.32	3.166e+04	60.89	-12.64
76	45	305.00	-2134.61	1023.71	-0.32	-3325.42	0.27	-24.08
76	45	373.42	-1787.92	977.11	-0.01	-2.070e+04	-0.11	-12.90
76	45	377.85	-1467.94	771.10	-0.03	-1.901e+04	-0.14	-12.53
76	45	382.28	-1146.59	577.79	-0.04	-1.621e+04	-0.21	-11.91
76	45	386.71	-823.12	400.40	-0.04	-1.230e+04	-0.52	-9.57
76	45	391.14	-501.70	244.70	-7.74e-03	-7696.43	-1.16	-6.00
76	45	395.57	-210.02	107.39	0.05	-3209.29	-0.60	-1.85

RELAZIONE DI RESISTENZA AL FUOCO



76	47	0.0	-4196.97	187.22	0.04	-2.220e+04	-0.02	8.06
76	47	32.50	-4186.30	190.06	0.04	-2.580e+04	-3.92	13.25
76	47	130.00	-4122.05	87.68	0.10	1179.85	13.12	16.38
76	47	217.50	-3905.96	22.36	0.32	1.114e+04	77.43	1.65
76	47	218.18	-3824.36	-5.65	-0.50	-7388.83	76.45	-14.55
76	47	218.86	-3783.52	-7.38	-0.47	-1.255e+04	75.61	-15.32
76	47	219.55	-3747.26	-6.79	-0.44	-1.400e+04	75.02	-15.47
76	47	220.23	-3712.29	-6.64	-0.43	-1.259e+04	74.46	-15.60
76	47	220.91	-3677.54	-6.82	-0.41	-8451.65	73.84	-15.75
76	47	221.59	-3642.80	-7.16	-0.40	-1584.68	73.27	-15.89
76	47	305.00	-3627.35	7.30	-0.40	1857.68	-4.87	-31.04
76	47	373.42	-3276.78	124.29	0.03	-2.882e+04	-1.14	-15.82
76	47	377.85	-2711.05	101.45	-6.36e-03	-2.393e+04	-0.88	-15.20
76	47	382.28	-2144.42	80.34	-0.03	-1.882e+04	-0.90	-13.67
76	47	386.71	-1576.85	62.56	-0.03	-1.353e+04	-1.16	-10.96
76	47	391.14	-1010.56	51.34	0.01	-8265.08	-1.84	-6.54
76	47	395.57	-463.43	41.70	0.08	-3663.82	-0.90	-1.87
76	48	0.0	-4196.97	187.22	0.04	-2.220e+04	-0.02	8.06
76	48	32.50	-4186.30	190.06	0.04	-2.580e+04	-3.92	13.25
76	48	130.00	-4122.05	87.68	0.10	1179.85	13.12	16.38
76	48	217.50	-3905.96	22.36	0.32	1.114e+04	77.43	1.65
76	48	218.18	-3824.36	-5.65	-0.50	-7388.83	76.45	-14.55
76	48	218.86	-3783.52	-7.38	-0.47	-1.255e+04	75.61	-15.32
76	48	219.55	-3747.26	-6.79	-0.44	-1.400e+04	75.02	-15.47
76	48	220.23	-3712.29	-6.64	-0.43	-1.259e+04	74.46	-15.60
76	48	220.91	-3677.54	-6.82	-0.41	-8451.65	73.84	-15.75
76	48	221.59	-3642.80	-7.16	-0.40	-1584.68	73.27	-15.89
76	48	305.00	-3627.35	7.30	-0.40	1857.68	-4.87	-31.04
76	48	373.42	-3276.78	124.29	0.03	-2.882e+04	-1.14	-15.82
76	48	377.85	-2711.05	101.45	-6.36e-03	-2.393e+04	-0.88	-15.20
76	48	382.28	-2144.42	80.34	-0.03	-1.882e+04	-0.90	-13.67
76	48	386.71	-1576.85	62.56	-0.03	-1.353e+04	-1.16	-10.96
76	48	391.14	-1010.56	51.34	0.01	-8265.08	-1.84	-6.54
76	48	395.57	-463.43	41.70	0.08	-3663.82	-0.90	-1.87

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-1.260e+04	-7.38	-1.10	-7.679e+04	-22.76	-81.52
	-210.02	1555.03	0.76	1.351e+05	193.33	42.77

Macro	Tipo	Angolo 1-Z (gradi)
116	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
116	2	0.0	-7721.36	542.73	-0.69	1.169e+05	-0.05	-10.27
116	2	32.50	-7762.50	540.48	-0.69	1.074e+05	114.06	30.91
116	2	130.00	-7939.32	539.08	-1.13	3.067e+04	-128.30	118.65
116	2	221.59	-7880.49	523.05	-1.25	-2.544e+04	-289.04	69.32
116	2	222.27	-7834.44	521.86	-1.34	-3.296e+04	-290.07	69.37
116	2	222.95	-7787.88	520.16	-1.53	-3.675e+04	-288.88	69.23
116	2	223.64	-7740.63	517.91	-1.42	-3.671e+04	-285.14	66.41
116	2	224.32	-7693.70	514.80	0.07	-3.268e+04	-283.37	55.97
116	2	225.00	-7591.49	514.22	-1.81	-1.415e+04	-290.02	152.20
116	2	305.00	-7626.61	484.86	-1.81	-4.792e+04	-867.47	-133.55
116	2	351.27	-7112.21	467.25	3.91	1.074e+04	33.66	-493.07
116	2	355.70	-5812.23	504.21	0.14	-3.016e+04	7.72	-129.08
116	2	360.13	-4259.57	353.21	-0.57	-1.222e+04	4.71	-30.69
116	2	364.56	-2781.29	192.81	-0.21	-813.35	0.89	-10.01
116	2	368.99	-1391.16	62.78	-0.08	1979.64	0.47	-4.95
116	44	0.0	-4560.14	1191.88	-0.30	1.264e+05	-0.02	-3.43
116	44	32.50	-4663.91	1188.42	-0.30	1.081e+05	49.71	14.76
116	44	130.00	-4828.36	1218.50	-0.47	4.395e+04	-48.41	55.08
116	44	221.59	-4789.53	1170.54	-0.68	2999.47	-132.76	41.93
116	44	222.27	-4746.21	1170.04	-0.73	-4490.52	-133.32	42.05
116	44	222.95	-4702.46	1168.90	-0.83	-8376.13	-132.62	42.06
116	44	223.64	-4656.87	1166.23	-0.77	-8504.57	-130.35	40.60
116	44	224.32	-4599.55	1159.27	0.04	-3244.68	-129.53	35.08
116	44	225.00	-4437.08	1152.78	-1.19	2.794e+04	-133.12	92.32
116	44	305.00	-4660.22	1167.87	-1.19	-2.164e+04	-486.65	-64.63
116	44	351.27	-4327.96	1316.19	2.11	2148.25	19.81	-272.41

RELAZIONE DI RESISTENZA AL FUOCO



116	44	355.70	-3510.19	1124.33	0.01	-1.531e+04	4.45	-67.89
116	44	360.13	-2580.61	826.02	-0.34	-5962.18	2.66	-15.22
116	44	364.56	-1691.47	525.46	-0.12	-318.18	0.51	-5.12
116	44	368.99	-847.43	241.44	-0.05	983.01	0.29	-2.77
116	45	0.0	-1637.37	961.54	-0.02	8.255e+04	-2.37e-03	0.29
116	45	32.50	-1723.64	958.24	-0.02	6.832e+04	3.90	1.66
116	45	130.00	-1792.59	988.05	-6.07e-03	3.455e+04	5.02	6.69
116	45	221.59	-1737.89	946.37	-0.16	1.678e+04	-12.10	14.58
116	45	222.27	-1705.52	946.31	-0.18	1.114e+04	-12.22	14.68
116	45	222.95	-1672.94	945.84	-0.21	8192.26	-11.98	14.76
116	45	223.64	-1638.73	944.10	-0.19	8048.36	-11.17	14.44
116	45	224.32	-1592.60	938.42	0.03	1.229e+04	-11.03	13.12
116	45	225.00	-1463.37	932.20	-0.50	3.728e+04	-11.93	33.11
116	45	305.00	-1673.09	959.19	-0.50	2515.04	-141.87	-9.44
116	45	351.27	-1512.84	1115.52	0.54	3633.09	6.58	-75.56
116	45	355.70	-1220.91	908.00	-0.05	430.70	1.37	-15.58
116	45	360.13	-917.00	676.80	-0.11	106.28	0.77	-2.57
116	45	364.56	-612.37	447.43	-0.03	-8.05	0.15	-1.02
116	45	368.99	-307.90	219.19	-0.01	-64.92	0.10	-0.76
116	47	0.0	-3219.49	146.30	-0.22	5.183e+04	-0.02	-4.81
116	47	32.50	-3230.66	143.50	-0.22	4.931e+04	40.99	9.20
116	47	130.00	-3233.34	139.96	-0.37	2.199e+04	-40.80	40.51
116	47	221.59	-3119.15	133.83	-0.42	4849.15	-91.42	25.85
116	47	222.27	-3084.66	133.25	-0.45	-620.69	-91.74	25.90
116	47	222.95	-3050.02	132.60	-0.52	-3367.01	-91.27	25.89
116	47	223.64	-3014.93	131.87	-0.48	-3348.08	-89.83	24.90
116	47	224.32	-2979.91	130.92	0.06	-482.00	-89.14	21.19
116	47	225.00	-2926.16	130.90	-0.75	8803.00	-91.45	58.91
116	47	305.00	-2942.22	121.02	-0.75	1653.28	-317.65	-43.73
116	47	351.27	-2675.71	118.46	1.39	2.525e+04	12.72	-178.46
116	47	355.70	-2229.54	132.09	0.02	2338.16	2.82	-44.82
116	47	360.13	-1684.94	102.18	-0.21	-210.12	1.68	-10.14
116	47	364.56	-1125.87	68.93	-0.07	-378.12	0.31	-3.37
116	47	368.99	-563.80	34.39	-0.03	-219.97	0.17	-1.74
116	48	0.0	-3219.49	146.30	-0.22	5.183e+04	-0.02	-4.81
116	48	32.50	-3230.66	143.50	-0.22	4.931e+04	40.99	9.20
116	48	130.00	-3233.34	139.96	-0.37	2.199e+04	-40.80	40.51
116	48	221.59	-3119.15	133.83	-0.42	4849.15	-91.42	25.85
116	48	222.27	-3084.66	133.25	-0.45	-620.69	-91.74	25.90
116	48	222.95	-3050.02	132.60	-0.52	-3367.01	-91.27	25.89
116	48	223.64	-3014.93	131.87	-0.48	-3348.08	-89.83	24.90
116	48	224.32	-2979.91	130.92	0.06	-482.00	-89.14	21.19
116	48	225.00	-2926.16	130.90	-0.75	8803.00	-91.45	58.91
116	48	305.00	-2942.22	121.02	-0.75	1653.28	-317.65	-43.73
116	48	351.27	-2675.71	118.46	1.39	2.525e+04	12.72	-178.46
116	48	355.70	-2229.54	132.09	0.02	2338.16	2.82	-44.82
116	48	360.13	-1684.94	102.18	-0.21	-210.12	1.68	-10.14
116	48	364.56	-1125.87	68.93	-0.07	-378.12	0.31	-3.37
116	48	368.99	-563.80	34.39	-0.03	-219.97	0.17	-1.74
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-7939.32	34.39	-1.81	-4.792e+04	-867.47	-493.07
			-307.90	1316.19	3.91	1.264e+05	114.06	152.20

Macro	Tipo	Angolo 1-Z (gradi)
123	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
123	2	0.0	-7581.24	521.33	0.69	1.228e+05	0.05	9.60
123	2	32.50	-7620.87	518.78	0.69	1.137e+05	-110.74	-30.73
123	2	130.00	-7788.95	514.42	1.12	3.917e+04	127.73	-115.98
123	2	221.59	-7716.11	493.69	1.24	-1.344e+04	288.64	-66.76
123	2	222.27	-7670.11	492.38	1.33	-2.094e+04	289.70	-66.82
123	2	222.95	-7623.61	490.54	1.54	-2.471e+04	288.36	-66.69
123	2	223.64	-7576.32	488.25	1.41	-2.467e+04	284.49	-63.69
123	2	224.32	-7527.83	485.30	-0.08	-2.047e+04	283.25	-53.69
123	2	225.00	-7415.26	484.24	1.71	194.93	289.71	-147.06
123	2	305.00	-7447.48	449.96	1.71	-3.151e+04	852.68	132.14
123	2	351.27	-6945.32	429.97	-4.03	2.580e+04	-33.04	482.41

RELAZIONE DI RESISTENZA AL FUOCO



123	2	355.70	-5713.45	483.70	-0.14	-2.213e+04	-9.10	134.38
123	2	360.13	-4212.70	346.35	0.65	-9397.33	-5.39	30.71
123	2	364.56	-2761.69	192.09	0.23	-29.21	-0.99	9.61
123	2	368.99	-1385.07	62.37	0.09	2252.73	-0.41	4.49
123	44	0.0	-4493.95	1182.76	0.31	1.285e+05	0.02	1.64
123	44	32.50	-4597.19	1179.14	0.31	1.104e+05	-46.33	-16.28
123	44	130.00	-4756.68	1210.68	0.47	4.727e+04	50.88	-53.99
123	44	221.59	-4709.04	1160.60	0.66	8224.29	134.61	-39.96
123	44	222.27	-4665.74	1159.99	0.72	740.48	135.19	-40.07
123	44	222.95	-4621.99	1158.73	0.83	-3142.41	134.41	-40.07
123	44	223.64	-4576.35	1155.90	0.75	-3269.37	132.07	-38.50
123	44	224.32	-4517.96	1148.40	-0.05	2116.29	131.51	-33.26
123	44	225.00	-4347.97	1139.63	1.11	3.485e+04	135.00	-88.47
123	44	305.00	-4570.15	1151.44	1.11	-1.372e+04	476.66	64.32
123	44	351.27	-4244.51	1299.31	-2.18	9469.95	-19.19	265.61
123	44	355.70	-3459.89	1113.21	-0.02	-1.133e+04	-5.11	71.02
123	44	360.13	-2556.71	824.02	0.37	-4604.93	-2.96	15.32
123	44	364.56	-1681.04	527.54	0.12	65.02	-0.49	4.94
123	44	368.99	-844.13	243.48	0.05	1116.13	-0.24	2.72
123	45	0.0	-1639.71	961.35	0.03	8.182e+04	2.66e-03	-1.97
123	45	32.50	-1726.07	958.04	0.03	6.761e+04	-1.79	-3.50
123	45	130.00	-1794.47	990.67	0.02	3.378e+04	-1.62	-6.84
123	45	221.59	-1737.22	949.00	0.16	1.632e+04	14.98	-13.46
123	45	222.27	-1704.85	948.87	0.17	1.068e+04	15.11	-13.56
123	45	222.95	-1672.24	948.35	0.20	7724.43	14.85	-13.62
123	45	223.64	-1637.98	946.45	0.18	7582.15	14.02	-13.26
123	45	224.32	-1591.47	940.16	-0.03	1.188e+04	13.94	-12.04
123	45	225.00	-1459.02	931.87	0.46	3.752e+04	14.82	-30.98
123	45	305.00	-1668.94	957.81	0.46	2866.29	137.42	9.99
123	45	351.27	-1510.64	1115.04	-0.57	3837.20	-6.15	72.93
123	45	355.70	-1219.66	907.14	0.04	442.06	-1.49	16.79
123	45	360.13	-916.48	678.53	0.12	57.99	-0.79	2.74
123	45	364.56	-611.74	450.06	0.03	-15.76	-0.07	1.01
123	45	368.99	-307.64	221.52	0.01	-68.15	-0.08	0.94
123	47	0.0	-3214.53	140.26	0.23	5.218e+04	0.02	3.81
123	47	32.50	-3225.21	137.42	0.23	4.976e+04	-39.24	-10.16
123	47	130.00	-3227.90	133.50	0.38	2.246e+04	43.10	-40.08
123	47	221.59	-3110.82	126.56	0.41	5951.50	94.05	-24.34
123	47	222.27	-3076.33	125.95	0.45	486.02	94.39	-24.39
123	47	222.95	-3041.68	125.26	0.52	-2257.21	93.86	-24.36
123	47	223.64	-3006.55	124.51	0.47	-2233.95	92.38	-23.30
123	47	224.32	-2971.20	123.57	-0.07	675.51	91.88	-19.75
123	47	225.00	-2914.23	123.46	0.69	1.061e+04	94.13	-55.86
123	47	305.00	-2929.24	112.69	0.69	3900.74	310.74	44.18
123	47	351.27	-2667.92	110.72	-1.44	2.669e+04	-12.31	174.20
123	47	355.70	-2228.31	132.37	-0.03	2509.31	-3.31	47.26
123	47	360.13	-1684.77	103.49	0.24	-193.90	-1.92	10.39
123	47	364.56	-1125.80	69.75	0.08	-374.09	-0.32	3.27
123	47	368.99	-563.78	34.75	0.03	-219.30	-0.15	1.69
123	48	0.0	-3214.53	140.26	0.23	5.218e+04	0.02	3.81
123	48	32.50	-3225.21	137.42	0.23	4.976e+04	-39.24	-10.16
123	48	130.00	-3227.90	133.50	0.38	2.246e+04	43.10	-40.08
123	48	221.59	-3110.82	126.56	0.41	5951.50	94.05	-24.34
123	48	222.27	-3076.33	125.95	0.45	486.02	94.39	-24.39
123	48	222.95	-3041.68	125.26	0.52	-2257.21	93.86	-24.36
123	48	223.64	-3006.55	124.51	0.47	-2233.95	92.38	-23.30
123	48	224.32	-2971.20	123.57	-0.07	675.51	91.88	-19.75
123	48	225.00	-2914.23	123.46	0.69	1.061e+04	94.13	-55.86
123	48	305.00	-2929.24	112.69	0.69	3900.74	310.74	44.18
123	48	351.27	-2667.92	110.72	-1.44	2.669e+04	-12.31	174.20
123	48	355.70	-2228.31	132.37	-0.03	2509.31	-3.31	47.26
123	48	360.13	-1684.77	103.49	0.24	-193.90	-1.92	10.39
123	48	364.56	-1125.80	69.75	0.08	-374.09	-0.32	3.27
123	48	368.99	-563.78	34.75	0.03	-219.30	-0.15	1.69
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-7788.95	34.75	-4.03	-3.151e+04	-110.74	-147.06
			-307.64	1299.31	1.71	1.285e+05	852.68	482.41

Macro	Tipo	Angolo 1-Z (gradi)
31	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
31	2	0.0	-2265.63	-6.38	1.08	4317.30	71.14	155.53
31	2	32.50	-2265.63	-6.38	1.08	4107.57	-14.76	287.91
31	2	130.00	-2120.64	-138.77	0.95	-3147.49	-35.77	280.36
31	2	225.00	-1953.52	-139.39	-1.35	-1.301e+04	-250.72	63.53
31	2	305.00	-1968.43	-133.90	-12.34	-2.557e+04	-1200.20	-638.50
31	2	351.27	-920.38	374.40	23.93	-1234.28	36.52	-708.57
31	2	351.29	-920.38	374.40	23.93	-1234.28	36.52	-708.57
31	44	0.0	-964.69	-0.10	14.47	4906.67	3069.64	1058.28
31	44	32.50	-964.69	-0.10	14.47	4902.34	416.77	1281.17
31	44	130.00	-953.67	-42.20	-4.72	1508.76	-812.04	1152.97
31	44	225.00	-963.22	-42.24	-10.33	-4427.54	-1955.48	-220.45
31	44	305.00	-1050.54	-38.73	60.70	-1.159e+04	-912.72	-1343.52
31	44	351.27	-522.69	230.38	-45.11	1297.20	-223.26	-3963.41
31	44	351.29	-522.69	230.38	-45.11	1297.20	-223.26	-3963.41
31	45	0.0	-112.75	2.42	13.99	2954.97	3040.97	994.52
31	45	32.50	-112.75	2.42	13.99	3033.55	421.36	1164.05
31	45	130.00	-151.32	14.39	-5.09	2823.96	-797.23	1039.70
31	45	225.00	-215.80	14.59	-9.79	1012.13	-1854.25	-246.26
31	45	305.00	-288.62	16.02	65.70	-1030.28	-426.40	-1084.18
31	45	351.27	-148.85	80.04	-54.77	1948.63	-238.03	-3677.15
31	45	351.29	-148.85	80.04	-54.77	1948.63	-238.03	-3677.15
31	47	0.0	-947.07	-2.43	0.28	991.67	24.69	50.64
31	47	32.50	-947.07	-2.43	0.28	912.00	-8.43	96.43
31	47	130.00	-873.27	-47.82	0.36	-1025.70	-11.07	95.98
31	47	225.00	-782.18	-48.07	-0.48	-4122.64	-85.75	21.23
31	47	305.00	-765.01	-45.79	-4.23	-8389.60	-408.28	-214.92
31	47	351.27	-312.91	133.60	8.26	24.14	12.50	-242.58
31	47	351.29	-312.91	133.60	8.26	24.14	12.50	-242.58
31	48	0.0	-947.07	-2.43	0.28	991.67	24.69	50.64
31	48	32.50	-947.07	-2.43	0.28	912.00	-8.43	96.43
31	48	130.00	-873.27	-47.82	0.36	-1025.70	-11.07	95.98
31	48	225.00	-782.18	-48.07	-0.48	-4122.64	-85.75	21.23
31	48	305.00	-765.01	-45.79	-4.23	-8389.60	-408.28	-214.92
31	48	351.27	-312.91	133.60	8.26	24.14	12.50	-242.58
31	48	351.29	-312.91	133.60	8.26	24.14	12.50	-242.58
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2265.63	-139.39	-54.77	-2.557e+04	-1955.48	-3963.41
			-112.75	374.40	65.70	4906.67	3069.64	1281.17

Macro	Tipo	Angolo 1-Z (gradi)
32	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
32	2	0.0	-2243.87	6.04	0.88	-4962.87	64.86	-159.00
32	2	32.50	-2243.87	6.04	0.88	-4764.68	-16.01	-297.20
32	2	130.00	-2108.46	138.79	0.75	3003.73	-34.32	-287.31
32	2	225.00	-1949.70	139.37	-1.41	1.326e+04	-240.94	-66.93
32	2	305.00	-1975.24	134.06	-12.53	2.611e+04	-1221.24	655.92
32	2	351.27	-908.63	-394.72	24.59	-69.56	26.28	720.83
32	2	351.29	-908.63	-394.72	24.59	-69.56	26.28	720.83
32	44	0.0	-950.98	0.19	18.17	-5044.72	3123.77	-1090.20
32	44	32.50	-950.98	0.19	18.17	-5037.55	395.44	-1298.03
32	44	130.00	-943.86	42.16	-4.79	-1478.09	-780.55	-1146.85
32	44	225.00	-959.30	42.19	-10.01	4597.93	-1861.62	224.54
32	44	305.00	-1054.08	38.83	59.89	1.188e+04	-1025.82	1344.50
32	44	351.27	-516.94	-238.71	-42.14	-2002.83	-209.96	3961.89
32	44	351.29	-516.94	-238.71	-42.14	-2002.83	-209.96	3961.89
32	45	0.0	-113.52	-2.15	17.77	-2801.43	3097.68	-1024.89
32	45	32.50	-113.52	-2.15	17.77	-2871.15	400.26	-1176.93
32	45	130.00	-151.60	-14.22	-5.07	-2693.69	-766.27	-1030.66
32	45	225.00	-217.78	-14.40	-9.45	-893.02	-1764.33	251.79
32	45	305.00	-293.43	-15.74	64.96	1167.48	-530.43	1077.78
32	45	351.27	-151.20	-78.90	-52.07	-2018.77	-220.54	3670.38

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



32	45	351.29	-151.20	-78.90	-52.07	-2018.77	-220.54	3670.38
32	47	0.0	-958.65	2.48	0.18	-1071.54	22.70	-51.33
32	47	32.50	-958.65	2.48	0.18	-990.50	-9.81	-98.80
32	47	130.00	-886.38	48.42	0.31	1137.04	-10.45	-97.96
32	47	225.00	-795.79	48.68	-0.50	4383.58	-82.28	-22.15
32	47	305.00	-781.31	46.52	-4.28	8792.24	-413.79	219.70
32	47	351.27	-320.75	-136.05	8.45	-92.71	9.10	245.71
32	47	351.29	-320.75	-136.05	8.45	-92.71	9.10	245.71
32	48	0.0	-958.65	2.48	0.18	-1071.54	22.70	-51.33
32	48	32.50	-958.65	2.48	0.18	-990.50	-9.81	-98.80
32	48	130.00	-886.38	48.42	0.31	1137.04	-10.45	-97.96
32	48	225.00	-795.79	48.68	-0.50	4383.58	-82.28	-22.15
32	48	305.00	-781.31	46.52	-4.28	8792.24	-413.79	219.70
32	48	351.27	-320.75	-136.05	8.45	-92.71	9.10	245.71
32	48	351.29	-320.75	-136.05	8.45	-92.71	9.10	245.71
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2243.87	-394.72	-52.07	-5044.72	-1861.62	-1298.03
			-113.52	139.37	64.96	2.611e+04	3123.77	3961.89

Macro	Tipo	Angolo 1-Z (gradi)
10	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
10	28	0.0	-545.76	77.48	45.13	1.334e+05	-84.29	50.89
10	28	45.00	-537.35	32.86	45.13	1.392e+05	1160.92	539.96
10	28	130.00	-298.21	2.75	-11.33	-14.59	-233.46	39.56
10	28	205.00	-327.42	-9.31	6.93	-432.13	345.63	-78.08
10	28	305.00	-748.33	201.87	-265.39	-1.307e+04	-2.204e+04	-114.34
10	28	340.00	-658.87	167.86	-287.08	5.504e+04	-3.536e+04	-298.88
10	34	0.0	-382.51	59.83	75.11	9.327e+04	-140.60	76.18
10	34	45.00	-386.89	24.46	75.11	9.343e+04	1914.36	884.40
10	34	130.00	-223.28	-0.88	-18.59	-92.41	-383.22	65.60
10	34	205.00	-294.43	-11.08	11.77	-472.61	599.25	-131.36
10	34	305.00	-686.43	188.38	-442.54	-1.091e+04	-3.676e+04	-167.64
10	34	340.00	-599.22	164.32	-477.90	4.291e+04	-5.892e+04	-468.96
10	35	0.0	-169.73	31.80	75.07	4.030e+04	-140.63	72.08
10	35	45.00	-182.18	11.98	75.07	3.640e+04	1905.78	877.34
10	35	130.00	-111.53	-3.31	-18.46	-125.40	-380.55	65.48
10	35	205.00	-195.08	-9.62	11.86	-385.56	609.51	-131.88
10	35	305.00	-464.06	133.37	-442.62	-7702.46	-3.677e+04	-157.16
10	35	340.00	-399.15	123.15	-477.63	2.163e+04	-5.890e+04	-455.20
10	47	0.0	-371.60	40.50	0.06	7.697e+04	0.20	1.61
10	47	45.00	-358.60	13.93	0.06	8.328e+04	11.63	4.99
10	47	130.00	-176.25	1.74	-0.14	-1.05	-1.78	0.31
10	47	205.00	-189.93	-5.88	-0.09	-284.16	-9.11	0.61
10	47	305.00	-416.65	123.28	0.17	-1.787e+04	27.32	-5.44
10	47	340.00	-351.85	111.52	-8.71e-03	2.017e+04	1.18	-4.54
10	48	0.0	-371.60	40.50	0.06	7.697e+04	0.20	1.61
10	48	45.00	-358.60	13.93	0.06	8.328e+04	11.63	4.99
10	48	130.00	-176.25	1.74	-0.14	-1.05	-1.78	0.31
10	48	205.00	-189.93	-5.88	-0.09	-284.16	-9.11	0.61
10	48	305.00	-416.65	123.28	0.17	-1.787e+04	27.32	-5.44
10	48	340.00	-351.85	111.52	-8.71e-03	2.017e+04	1.18	-4.54
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-748.33	-11.08	-477.90	-1.787e+04	-5.892e+04	-468.96
			-111.53	201.87	75.11	1.392e+05	1914.36	884.40

Macro	Tipo	Angolo 1-Z (gradi)
115	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



		cm	daN	daN	daN	daN cm	daN cm	daN cm
115	12	0.0	-2077.11	325.11	-0.23	1.002e+05	0.74	-14.48
115	12	45.00	-2107.79	381.74	-0.23	1.077e+05	-12.74	-16.55
115	12	130.00	-1813.33	452.63	-0.47	1.570e+05	-53.75	0.59
115	12	205.00	-1555.69	433.72	0.11	1.502e+05	-36.26	12.58
115	12	215.00	-1343.31	187.20	0.80	9.907e+04	-28.84	11.35
115	12	305.00	-964.10	77.99	1.29	4.381e+04	97.75	13.88
115	12	340.00	-946.70	95.73	-2.11	3.704e+04	-5.90	22.39
115	13	0.0	-1301.93	242.66	0.03	6.358e+04	0.14	-8.75
115	13	45.00	-1314.81	285.83	0.03	6.736e+04	2.06	-10.44
115	13	130.00	-1121.15	343.19	-0.24	9.908e+04	-20.64	-2.30
115	13	205.00	-951.54	329.48	-7.87e-03	9.586e+04	-16.52	4.50
115	13	215.00	-814.18	141.90	0.32	6.275e+04	-13.84	4.21
115	13	305.00	-557.48	57.21	0.64	2.176e+04	51.54	8.44
115	13	340.00	-527.11	74.28	-1.22	1.749e+04	-5.97	11.47
115	34	0.0	-1658.92	182.92	2.13	7.716e+04	372.29	-1271.08
115	34	45.00	-1666.51	226.38	2.13	8.289e+04	5305.47	-1519.70
115	34	130.00	-1531.19	267.19	131.24	1.311e+05	1.322e+04	-3184.58
115	34	205.00	-1447.06	259.85	-180.30	1.417e+05	934.31	51.56
115	34	215.00	-1352.82	58.54	2.85	1.191e+05	1085.73	2730.07
115	34	305.00	-968.88	28.19	-31.82	5.391e+04	-7857.17	7891.70
115	34	340.00	-988.98	25.79	-106.71	4.694e+04	-1.309e+04	615.27
115	38	0.0	-2768.19	211.82	-0.98	1.106e+05	-110.55	359.52
115	38	45.00	-2835.59	243.57	-0.98	1.229e+05	-1610.90	431.82
115	38	130.00	-2404.33	267.64	-40.22	1.840e+05	-4058.91	961.43
115	38	205.00	-2002.06	260.21	54.23	1.714e+05	-346.41	7.16
115	38	215.00	-1748.32	67.85	0.51	1.116e+05	-378.52	-799.34
115	38	305.00	-1262.76	22.88	11.74	6.582e+04	2515.17	-2346.11
115	38	340.00	-1193.61	26.88	28.78	5.357e+04	3921.43	-146.34
115	47	0.0	-1480.19	109.74	-0.18	5.851e+04	0.51	-9.94
115	47	45.00	-1504.73	131.37	-0.18	6.425e+04	-9.92	-10.84
115	47	130.00	-1295.80	147.69	-0.26	1.005e+05	-32.66	2.39
115	47	205.00	-1114.64	146.55	0.08	1.005e+05	-20.14	9.07
115	47	215.00	-1009.25	14.89	0.51	7.596e+04	-14.58	8.33
115	47	305.00	-698.48	3.37	0.72	3.689e+04	58.87	10.05
115	47	340.00	-664.42	2.84	-1.38	3.094e+04	-7.01	13.48
115	48	0.0	-1480.19	109.74	-0.18	5.851e+04	0.51	-9.94
115	48	45.00	-1504.73	131.37	-0.18	6.425e+04	-9.92	-10.84
115	48	130.00	-1295.80	147.69	-0.26	1.005e+05	-32.66	2.39
115	48	205.00	-1114.64	146.55	0.08	1.005e+05	-20.14	9.07
115	48	215.00	-1009.25	14.89	0.51	7.596e+04	-14.58	8.33
115	48	305.00	-698.48	3.37	0.72	3.689e+04	58.87	10.05
115	48	340.00	-664.42	2.84	-1.38	3.094e+04	-7.01	13.48
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2835.59	2.84	-180.30	1.749e+04	-1.309e+04	-3184.58
			-527.11	452.63	131.24	1.840e+05	1.322e+04	7891.70

Macro	Tipo	Angolo 1-Z (gradi)
84	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
84	12	0.0	-1171.16	148.72	-0.19	1.837e+04	-0.93	12.94
84	12	45.00	-1167.71	153.72	-0.19	1.466e+04	-3.74	2.77
84	12	130.00	-1019.24	257.49	-0.31	7936.79	-32.13	1.32
84	12	215.00	-847.24	283.64	0.10	4807.45	-22.37	7.69
84	12	305.00	-686.71	312.13	0.93	-2.660e+04	69.90	-7.47
84	12	340.00	-545.85	221.69	-1.40	-2.030e+04	-1.69	-7.30
84	25	0.0	-775.95	-75.43	-0.02	3984.29	-0.39	5.89
84	25	45.00	-762.82	-81.49	-0.02	2583.55	1.00	1.50
84	25	130.00	-643.87	-113.67	-0.17	4886.93	-14.71	0.58
84	25	215.00	-508.08	-127.49	0.03	7684.37	-10.88	4.34
84	25	305.00	-367.42	-113.50	0.55	-8891.18	42.78	-4.89
84	25	340.00	-272.88	-98.70	-0.81	-3998.21	1.62	-5.70
84	35	0.0	-348.60	40.55	9.08	4410.18	-258.76	-1502.58
84	35	45.00	-351.09	42.51	9.08	5287.93	2965.12	-3433.06
84	35	130.00	-352.59	67.82	31.06	6703.29	6006.99	-386.04
84	35	215.00	-344.48	68.81	-21.48	1.024e+04	1997.25	3062.76
84	35	305.00	-313.94	76.50	-74.03	-5848.24	-6247.71	-806.44

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



84	35	340.00	-284.07	68.73	-171.92	-5243.81	-1.395e+04	104.33
84	38	0.0	-1518.58	55.73	-3.12	1.738e+04	76.16	470.35
84	38	45.00	-1503.96	55.75	-3.12	1.266e+04	-899.78	1034.12
84	38	130.00	-1291.56	114.38	-9.75	7915.99	-1851.51	119.64
84	38	215.00	-1053.46	125.98	6.59	5429.36	-634.07	-904.87
84	38	305.00	-832.87	175.29	23.69	-3.175e+04	1984.75	232.73
84	38	340.00	-662.84	95.30	49.41	-2.382e+04	4184.20	-41.41
84	47	0.0	-763.96	25.67	-0.27	7974.95	-0.72	8.40
84	47	45.00	-757.70	25.18	-0.27	6284.84	-8.81	1.19
84	47	130.00	-658.88	51.09	-0.14	5143.37	-21.60	1.70
84	47	215.00	-547.84	54.00	0.11	5887.71	-11.87	5.38
84	47	305.00	-438.77	71.65	0.50	-1.438e+04	38.64	-2.24
84	47	340.00	-354.64	44.04	-0.80	-1.066e+04	-1.10	-0.10
84	48	0.0	-763.96	25.67	-0.27	7974.95	-0.72	8.40
84	48	45.00	-757.70	25.18	-0.27	6284.84	-8.81	1.19
84	48	130.00	-658.88	51.09	-0.14	5143.37	-21.60	1.70
84	48	215.00	-547.84	54.00	0.11	5887.71	-11.87	5.38
84	48	305.00	-438.77	71.65	0.50	-1.438e+04	38.64	-2.24
84	48	340.00	-354.64	44.04	-0.80	-1.066e+04	-1.10	-0.10
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1518.58	-127.49	-171.92	-3.175e+04	-1.395e+04	-3433.06
			-272.88	312.13	49.41	1.837e+04	6006.99	3062.76

Macro	Tipo	Angolo 1-Z (gradi)
86	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
86	8	0.0	-2703.17	304.70	-0.29	-2.637e+05	3.69e-03	-3.49
86	8	45.00	-2673.76	301.05	-0.29	-2.587e+05	-30.02	-0.56
86	8	130.00	-2228.78	248.59	-1.18	-8.877e+04	-115.56	14.80
86	8	215.00	-1875.89	262.84	-6.92	-1.016e+05	-281.12	104.18
86	8	305.00	-1593.51	321.75	-33.32	-1.171e+05	2322.75	-913.24
86	8	340.00	-856.70	718.45	-115.12	-3.890e+04	-249.85	613.66
86	13	0.0	-1469.19	334.15	0.02	-1.163e+05	-0.02	-5.54
86	13	45.00	-1444.68	327.61	0.02	-1.086e+05	2.16	-6.21
86	13	130.00	-1145.42	287.49	-0.42	-1.629e+04	-37.79	-2.17
86	13	215.00	-884.52	284.38	-1.43	-1.791e+04	-76.48	23.33
86	13	305.00	-660.54	301.06	-6.39	-1.813e+04	443.05	-169.08
86	13	340.00	-422.08	379.81	-22.60	-2.068e+04	-91.84	126.97
86	35	0.0	-750.44	136.69	383.96	-3.406e+04	10.83	565.82
86	35	45.00	-745.71	124.55	383.96	-2.956e+04	1.895e+04	-1054.68
86	35	130.00	-689.47	111.50	176.61	1.362e+04	3.337e+04	-2674.29
86	35	215.00	-658.56	115.59	-61.15	7481.42	2.788e+04	3960.79
86	35	305.00	-610.90	124.15	-327.11	640.99	-3564.65	5645.69
86	35	340.00	-453.74	262.12	-568.08	-6412.20	-2.732e+04	-646.82
86	38	0.0	-2982.74	41.91	-115.50	-2.804e+05	-3.25	-178.56
86	38	45.00	-2968.45	59.12	-115.50	-2.823e+05	-5714.89	309.52
86	38	130.00	-2464.85	25.23	-54.35	-9.007e+04	-1.014e+04	813.17
86	38	215.00	-2026.63	39.52	10.94	-1.002e+05	-8679.84	-1078.79
86	38	305.00	-1679.59	84.26	62.99	-1.122e+05	3492.21	-2650.33
86	38	340.00	-885.48	451.28	48.75	-3.787e+04	7891.19	856.98
86	47	0.0	-1467.67	45.90	-0.20	-1.112e+05	7.10e-03	-3.55
86	47	45.00	-1462.39	51.32	-0.20	-1.105e+05	-18.98	-2.13
86	47	130.00	-1226.12	34.84	-0.51	-1.806e+04	-57.92	6.46
86	47	215.00	-1019.25	38.30	-2.69	-2.311e+04	-118.41	45.49
86	47	305.00	-847.16	51.44	-13.03	-2.812e+04	908.58	-352.22
86	47	340.00	-511.92	207.70	-45.15	-1.420e+04	-94.67	247.90
86	48	0.0	-1467.67	45.90	-0.20	-1.112e+05	7.10e-03	-3.55
86	48	45.00	-1462.39	51.32	-0.20	-1.105e+05	-18.98	-2.13
86	48	130.00	-1226.12	34.84	-0.51	-1.806e+04	-57.92	6.46
86	48	215.00	-1019.25	38.30	-2.69	-2.311e+04	-118.41	45.49
86	48	305.00	-847.16	51.44	-13.03	-2.812e+04	908.58	-352.22
86	48	340.00	-511.92	207.70	-45.15	-1.420e+04	-94.67	247.90
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2982.74	25.23	-568.08	-2.823e+05	-2.732e+04	-2674.29
			-422.08	718.45	383.96	1.362e+04	3.337e+04	5645.69

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Macro	Tipo	Angolo 1-Z (gradi)
74	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
74	25	0.0	-1378.28	-139.32	-0.45	9027.77	0.03	-12.82
74	25	45.00	-1352.55	-142.29	-0.45	9254.36	-19.16	-10.37
74	25	130.00	-1092.41	-117.84	-1.13	-1.789e+04	-106.05	-0.88
74	25	215.00	-867.22	-130.26	-1.08	-6498.90	-102.93	-10.58
74	25	305.00	-657.29	-149.21	-4.28	1.038e+04	402.70	172.48
74	25	340.00	-417.11	-206.60	-16.59	6090.75	-91.42	-112.75
74	28	0.0	-2244.43	49.63	171.24	4.354e+04	-9.38	-251.02
74	28	45.00	-2232.05	38.81	171.24	4.869e+04	8659.04	410.87
74	28	130.00	-1975.88	36.30	40.71	7952.99	1.147e+04	1130.95
74	28	215.00	-1776.45	-12.61	-35.02	3.737e+04	7995.62	-1687.76
74	28	305.00	-1575.21	-68.31	-128.46	8.462e+04	-2309.66	-1614.34
74	28	340.00	-862.28	-472.68	-387.47	3660.32	-1.617e+04	-185.13
74	35	0.0	-602.14	-76.13	289.45	-2.771e+04	-15.24	-331.69
74	35	45.00	-600.37	-60.58	289.45	-3.034e+04	1.464e+04	757.96
74	35	130.00	-613.30	-53.78	72.28	-4.465e+04	1.959e+04	1895.95
74	35	215.00	-632.01	-71.37	-51.27	-3.074e+04	1.368e+04	-2736.67
74	35	305.00	-588.73	-75.58	-177.97	-3306.69	-6974.03	-4025.04
74	35	340.00	-430.97	-209.22	-523.69	-2324.97	-2.662e+04	536.51
74	38	0.0	-2961.83	154.92	-89.43	1.031e+05	4.47	36.74
74	38	45.00	-2948.96	113.56	-89.43	1.124e+05	-4521.34	-281.19
74	38	130.00	-2452.92	100.76	-25.60	5.365e+04	-6267.72	-579.28
74	38	215.00	-2022.29	65.43	9.83	7.155e+04	-4449.13	765.79
74	38	305.00	-1678.71	17.27	28.16	9.720e+04	4298.75	2160.75
74	38	340.00	-875.56	-322.58	69.10	8446.72	7684.24	-775.78
74	47	0.0	-1369.99	20.14	-1.36	2.369e+04	-0.14	-24.91
74	47	45.00	-1364.15	7.11	-1.36	2.579e+04	-71.42	-20.18
74	47	130.00	-1151.66	8.28	-1.40	-729.63	-162.36	-1.04
74	47	215.00	-976.41	-3.81	-1.63	9380.78	-106.57	-21.38
74	47	305.00	-824.71	-16.97	-9.52	2.475e+04	835.22	349.78
74	47	340.00	-493.13	-158.42	-32.72	753.73	-92.73	-232.85
74	48	0.0	-1369.99	20.14	-1.36	2.369e+04	-0.14	-24.91
74	48	45.00	-1364.15	7.11	-1.36	2.579e+04	-71.42	-20.18
74	48	130.00	-1151.66	8.28	-1.40	-729.63	-162.36	-1.04
74	48	215.00	-976.41	-3.81	-1.63	9380.78	-106.57	-21.38
74	48	305.00	-824.71	-16.97	-9.52	2.475e+04	835.22	349.78
74	48	340.00	-493.13	-158.42	-32.72	753.73	-92.73	-232.85
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2961.83	-472.68	-523.69	-4.465e+04	-2.662e+04	-4025.04
			-417.11	154.92	289.45	1.124e+05	1.959e+04	2160.75

Macro	Tipo	Angolo 1-Z (gradi)
78	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
78	24	0.0	-2743.06	-439.09	-4.16	-6.374e+04	0.16	-35.64
78	24	45.00	-2742.64	-470.63	-4.16	-6.551e+04	-202.82	-40.53
78	24	130.00	-2257.26	-531.03	-3.65	-5.460e+04	-535.08	-22.00
78	24	215.00	-1717.54	-516.63	2.65	-4.166e+04	-301.17	11.89
78	24	305.00	-1238.87	-491.02	4.26	2.335e+04	132.52	35.14
78	24	340.00	-933.73	-471.73	-2.11	-9142.31	0.73	5.75
78	34	0.0	-2426.27	-187.32	251.44	-9.153e+04	14.41	-7.61
78	34	45.00	-2420.64	-219.04	251.44	-9.457e+04	1.313e+04	-33.03
78	34	130.00	-2136.98	-262.55	91.29	-7.446e+04	2.174e+04	-3.20
78	34	215.00	-1745.47	-267.40	-117.03	-5.473e+04	1.431e+04	-44.39
78	34	305.00	-1259.77	-268.17	-159.60	1.280e+04	-9729.29	1490.81
78	34	340.00	-970.29	-263.59	-388.47	-1.497e+04	-2.687e+04	-250.42

RELAZIONE DI RESISTENZA AL FUOCO



78	38	0.0	-3237.88	-70.60	-82.41	-6.720e+04	-4.09	-66.21
78	38	45.00	-3249.70	-92.62	-82.41	-6.676e+04	-4277.84	-70.81
78	38	130.00	-2626.43	-133.23	-33.90	-5.151e+04	-7454.74	-51.88
78	38	215.00	-1975.23	-146.76	39.32	-3.533e+04	-4857.37	23.70
78	38	305.00	-1436.74	-180.61	55.57	2.473e+04	3129.81	-384.88
78	38	340.00	-1093.72	-172.11	113.21	-1.990e+04	8063.72	83.00
78	45	0.0	-1908.91	79.94	-128.36	3438.02	-7.41	-30.00
78	45	45.00	-1919.47	83.98	-128.36	5541.84	-6683.42	-23.66
78	45	130.00	-1488.59	79.58	-50.02	3888.12	-1.139e+04	-24.59
78	45	215.00	-1029.06	70.49	59.30	3694.30	-7626.85	32.11
78	45	305.00	-704.71	40.14	85.60	2.306e+04	4973.58	-696.07
78	45	340.00	-503.19	38.92	192.53	-3622.49	1.344e+04	142.05
78	47	0.0	-1860.28	-63.60	-3.04	-4.264e+04	0.22	-25.53
78	47	45.00	-1862.76	-77.46	-3.04	-4.310e+04	-151.84	-29.27
78	47	130.00	-1534.26	-99.56	-2.04	-3.367e+04	-335.12	-17.58
78	47	215.00	-1172.00	-104.43	2.15	-2.461e+04	-139.96	3.50
78	47	305.00	-844.86	-115.87	2.22	1.337e+04	87.34	17.14
78	47	340.00	-636.73	-114.59	-1.39	-8780.66	1.09	-1.52
78	48	0.0	-1860.28	-63.60	-3.04	-4.264e+04	0.22	-25.53
78	48	45.00	-1862.76	-77.46	-3.04	-4.310e+04	-151.84	-29.27
78	48	130.00	-1534.26	-99.56	-2.04	-3.367e+04	-335.12	-17.58
78	48	215.00	-1172.00	-104.43	2.15	-2.461e+04	-139.96	3.50
78	48	305.00	-844.86	-115.87	2.22	1.337e+04	87.34	17.14
78	48	340.00	-636.73	-114.59	-1.39	-8780.66	1.09	-1.52
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-3249.70	-531.03	-388.47	-9.457e+04	-2.687e+04	-696.07
			-503.19	83.98	251.44	2.473e+04	2.174e+04	1490.81

Macro	Tipo	Angolo 1-Z (gradi)
72	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
72	8	0.0	-1696.28	49.92	-3.93	3.890e+04	6.44	81.99
72	8	45.00	-1686.13	104.97	-3.93	4.123e+04	-174.29	83.07
72	8	130.00	-1402.10	153.83	-3.41	2.863e+04	-456.96	16.46
72	8	215.00	-1087.64	192.76	1.87	2.195e+04	-287.96	-74.75
72	8	305.00	-779.86	246.53	4.55	2.109e+04	140.46	-64.10
72	8	340.00	-583.58	307.90	-1.88	1.954e+04	10.55	0.03
72	34	0.0	-1189.10	-49.11	154.40	2.846e+04	498.43	7427.60
72	34	45.00	-1202.24	-22.69	154.40	2.833e+04	1.000e+04	7429.82
72	34	130.00	-1087.71	-0.30	55.72	2.287e+04	1.745e+04	2260.41
72	34	215.00	-920.69	29.59	-41.92	1.936e+04	1.344e+04	-3534.56
72	34	305.00	-693.69	41.49	-154.54	1.134e+04	-4041.46	-6056.54
72	34	340.00	-540.24	68.17	-107.83	6571.74	-1.628e+04	-3971.36
72	45	0.0	-947.21	32.59	-78.95	1.649e+04	-241.53	-3663.88
72	45	45.00	-939.25	63.92	-78.95	1.776e+04	-5069.69	-3659.00
72	45	130.00	-744.07	82.07	-30.83	8974.90	-9042.54	-1096.41
72	45	215.00	-526.90	83.61	20.88	2462.14	-7049.34	1730.18
72	45	305.00	-359.55	101.10	81.58	2886.35	2099.60	2966.93
72	45	340.00	-255.64	129.27	53.24	3363.18	8147.81	1979.09
72	47	0.0	-909.06	-12.38	-1.93	2.081e+04	2.46	38.32
72	47	45.00	-912.41	14.50	-1.93	2.124e+04	-87.22	37.81
72	47	130.00	-769.32	28.10	-1.41	1.366e+04	-203.13	3.84
72	47	215.00	-609.03	39.10	1.04	9334.30	-109.61	-35.47
72	47	305.00	-453.87	52.96	1.88	6996.62	67.47	-25.86
72	47	340.00	-344.43	74.99	-0.97	5064.49	4.37	1.73
72	48	0.0	-909.06	-12.38	-1.93	2.081e+04	2.46	38.32
72	48	45.00	-912.41	14.50	-1.93	2.124e+04	-87.22	37.81
72	48	130.00	-769.32	28.10	-1.41	1.366e+04	-203.13	3.84
72	48	215.00	-609.03	39.10	1.04	9334.30	-109.61	-35.47
72	48	305.00	-453.87	52.96	1.88	6996.62	67.47	-25.86
72	48	340.00	-344.43	74.99	-0.97	5064.49	4.37	1.73
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1696.28	-49.11	-154.54	2462.14	-1.628e+04	-6056.54
			-255.64	307.90	154.40	4.123e+04	1.745e+04	7429.82

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Macro	Tipo	Angolo 1-Z (gradi)
88	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
88	24	0.0	-1043.91	-222.95	-0.42	1.613e+04	-5.96	5.03
88	24	45.00	-1043.91	-222.95	-0.42	6108.82	-13.61	1.06
88	24	130.00	-873.49	-239.07	-0.18	-4523.15	-31.09	2.54
88	24	215.00	-675.12	-159.56	-0.06	-9198.33	-29.67	7.19
88	24	305.00	-502.38	-79.73	-0.14	-1.009e+04	-18.12	1.24
88	24	340.00	-409.64	-42.92	-0.64	-9907.25	-75.74	-6.61
88	25	0.0	-683.09	-189.94	-0.23	2.003e+04	-3.30	3.62
88	25	45.00	-683.09	-189.94	-0.23	1.150e+04	-7.92	1.86
88	25	130.00	-565.38	-199.92	-0.08	589.87	-14.80	2.98
88	25	215.00	-423.67	-120.39	-0.02	-3800.70	-13.50	4.78
88	25	305.00	-301.81	-40.59	-0.09	-3627.12	-10.45	2.44
88	25	340.00	-232.54	-3.41	-0.30	-2636.68	-33.36	0.03
88	34	0.0	-777.21	-46.89	176.95	7159.09	-703.77	-7829.47
88	34	45.00	-777.21	-46.89	176.95	5050.85	9955.67	-8797.12
88	34	130.00	-695.56	-53.66	103.06	2370.70	1.919e+04	-2870.60
88	34	215.00	-592.73	-53.62	-46.41	-2006.63	1.529e+04	4170.61
88	34	305.00	-489.38	-53.61	-203.14	-6869.63	-3786.94	7161.87
88	34	340.00	-434.18	-54.04	-172.47	-1.049e+04	-1.575e+04	4579.93
88	38	0.0	-1265.87	-82.48	-53.67	-1.966e+04	201.39	2363.20
88	38	45.00	-1265.87	-82.48	-53.67	-2.336e+04	-2999.10	2645.29
88	38	130.00	-1060.66	-92.13	-31.29	-1.798e+04	-5808.34	862.02
88	38	215.00	-836.16	-92.23	13.74	-1.454e+04	-4645.02	-1242.55
88	38	305.00	-635.01	-92.05	60.64	-1.394e+04	1097.09	-2150.59
88	38	340.00	-525.73	-92.96	50.45	-1.401e+04	4559.88	-1391.24
88	47	0.0	-672.20	-33.96	-0.19	-3644.04	-2.53	0.36
88	47	45.00	-672.20	-33.96	-0.19	-5169.77	-5.61	-2.03
88	47	130.00	-574.49	-36.48	-0.12	-3709.01	-18.42	-1.23
88	47	215.00	-461.50	-36.49	-0.02	-3579.68	-16.55	2.88
88	47	305.00	-356.29	-36.42	-0.04	-4542.18	-5.22	-1.47
88	47	340.00	-295.57	-36.77	-0.35	-5498.75	-42.96	-7.86
88	48	0.0	-672.20	-33.96	-0.19	-3644.04	-2.53	0.36
88	48	45.00	-672.20	-33.96	-0.19	-5169.77	-5.61	-2.03
88	48	130.00	-574.49	-36.48	-0.12	-3709.01	-18.42	-1.23
88	48	215.00	-461.50	-36.49	-0.02	-3579.68	-16.55	2.88
88	48	305.00	-356.29	-36.42	-0.04	-4542.18	-5.22	-1.47
88	48	340.00	-295.57	-36.77	-0.35	-5498.75	-42.96	-7.86

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-1265.87	-239.07	-203.14	-2.336e+04	-1.575e+04	-8797.12
	-232.54	-3.41	176.95	2.003e+04	1.919e+04	7161.87

Macro	Tipo	Angolo 1-Z (gradi)
77	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
77	2	0.0	-1.094e+04	-370.41	0.23	-1.180e+05	-1.14e-05	-12.68
77	2	45.00	-1.094e+04	-370.41	0.23	-1.013e+05	13.73	-17.39
77	2	130.00	-1.112e+04	-302.42	0.07	-6.524e+04	21.23	-22.09
77	2	215.00	-1.113e+04	-301.99	-0.10	-1.924e+04	17.75	-24.77
77	2	305.00	-1.109e+04	-219.18	-9.92e-03	8.632e+04	3.05	-23.07
77	2	340.00	-1.112e+04	-158.63	0.02	3.444e+04	3.56	-16.49
77	2	342.77	-1.072e+04	-551.32	-0.06	1.755e+05	3.06	-15.81
77	2	345.55	-9864.58	-780.91	-0.07	1.607e+05	2.84	-13.51
77	2	351.55	-8056.52	-696.99	-0.02	1.360e+05	2.02	-9.29
77	2	355.97	-6687.69	-434.45	-0.02	1.052e+05	2.02	-3.93
77	2	360.39	-5347.78	-331.09	-5.58e-03	8.095e+04	1.51	-1.54
77	2	364.82	-4022.62	-291.29	-3.07e-03	5.919e+04	1.41	3.89
77	2	369.24	-2711.79	-301.71	-0.07	3.966e+04	1.73	6.72
77	2	373.66	-1429.44	-372.47	-0.07	2.231e+04	0.80	3.59
77	2	378.52	-339.29	-101.79	-0.02	1186.34	0.29	2.39

RELAZIONE DI RESISTENZA AL FUOCO



77	18	0.0	-1.010e+04	-173.22	0.28	-8.285e+04	-1.69e-05	-5.97
77	18	45.00	-1.010e+04	-173.22	0.28	-7.506e+04	17.39	-10.45
77	18	130.00	-1.025e+04	-115.65	0.05	-4.571e+04	21.52	-17.81
77	18	215.00	-1.024e+04	-114.47	-0.11	-6174.89	19.97	-22.65
77	18	305.00	-1.018e+04	-35.50	-0.17	8.346e+04	-15.76	-26.10
77	18	340.00	-1.018e+04	5.49	0.17	3.752e+04	-2.01	-17.37
77	18	342.77	-9807.82	-363.45	-5.88e-03	1.665e+05	-2.47	-20.38
77	18	345.55	-9025.59	-586.34	1.20e-03	1.517e+05	-2.31	-18.96
77	18	351.55	-7367.34	-533.93	0.07	1.272e+05	-2.40	-15.49
77	18	355.97	-6112.45	-309.73	0.08	9.774e+04	-1.78	-10.49
77	18	360.39	-4886.20	-232.24	0.09	7.486e+04	-1.62	-8.52
77	18	364.82	-3674.87	-213.23	0.11	5.457e+04	-1.13	-3.46
77	18	369.24	-2477.82	-238.24	0.04	3.658e+04	-0.10	0.34
77	18	373.66	-1305.42	-317.65	0.03	2.061e+04	-0.21	-1.37
77	18	378.52	-306.99	-89.60	0.03	1110.92	0.49	0.97
77	34	0.0	-7611.95	-1527.08	0.17	-1.805e+05	-9.56e-06	-9.85
77	34	45.00	-7611.95	-1527.08	0.17	-1.119e+05	10.68	-13.64
77	34	130.00	-7515.97	-1307.67	0.05	-8.070e+04	14.88	-17.05
77	34	215.00	-7349.19	-1041.60	-0.05	-4.490e+04	15.85	-18.54
77	34	305.00	-7225.79	-813.57	-0.03	6.705e+04	1.41	-18.43
77	34	340.00	-7147.67	-742.30	0.04	3.569e+04	2.35	-13.02
77	34	342.77	-6866.52	-932.96	-0.03	1.203e+05	1.98	-12.32
77	34	345.55	-6320.16	-1017.69	-0.03	1.121e+05	1.85	-10.41
77	34	351.55	-5154.76	-854.61	-6.27e-04	9.660e+04	1.38	-6.59
77	34	355.97	-4275.07	-625.44	-4.00e-03	7.763e+04	1.38	-2.78
77	34	360.39	-3407.18	-490.04	0.02	6.117e+04	0.95	-1.04
77	34	364.82	-2546.78	-390.41	0.01	4.568e+04	1.02	3.58
77	34	369.24	-1692.86	-332.71	-0.04	3.092e+04	1.26	5.22
77	34	373.66	-863.26	-325.43	-0.03	1.751e+04	0.47	2.75
77	34	378.52	-185.03	-69.65	-5.91e-03	881.00	0.40	2.43
77	35	0.0	-3522.64	-1392.06	0.09	-1.388e+05	-5.34e-06	-4.72
77	35	45.00	-3522.64	-1392.06	0.09	-7.625e+04	5.67	-6.68
77	35	130.00	-3329.55	-1197.29	0.02	-5.951e+04	7.23	-8.35
77	35	215.00	-3113.07	-931.06	-5.51e-03	-4.179e+04	9.69	-8.76
77	35	305.00	-2947.22	-732.51	-0.02	2.868e+04	0.98	-9.24
77	35	340.00	-2802.08	-682.67	0.02	1.659e+04	1.04	-6.63
77	35	342.77	-2679.63	-716.14	-8.77e-03	4.592e+04	0.86	-6.02
77	35	345.55	-2470.01	-710.60	-4.00e-03	4.468e+04	0.81	-4.90
77	35	351.55	-2017.49	-579.88	7.00e-03	4.117e+04	0.65	-2.67
77	35	355.97	-1675.49	-453.31	2.81e-03	3.545e+04	0.65	-0.89
77	35	360.39	-1331.38	-358.72	0.02	2.912e+04	0.41	-0.13
77	35	364.82	-986.74	-275.29	0.01	2.237e+04	0.50	2.32
77	35	369.24	-641.51	-213.91	-0.02	1.525e+04	0.61	2.80
77	35	373.66	-310.26	-179.23	-4.80e-03	8600.94	0.15	1.43
77	35	378.52	-55.26	-29.94	3.04e-03	406.75	0.29	1.54
77	47	0.0	-5099.13	-179.66	0.10	-6.626e+04	-5.05e-06	-3.91
77	47	45.00	-5099.13	-179.66	0.10	-5.818e+04	6.38	-5.62
77	47	130.00	-5111.93	-145.98	0.04	-4.432e+04	10.11	-7.67
77	47	215.00	-5016.13	-145.12	-0.04	-2.544e+04	9.05	-8.33
77	47	305.00	-4874.40	-102.34	6.50e-05	1.852e+04	3.35	-6.63
77	47	340.00	-4776.27	-70.26	-0.01	-6836.88	1.70	-5.02
77	47	342.77	-4604.60	-227.97	-0.03	5.438e+04	1.51	-4.28
77	47	345.55	-4253.36	-324.69	-0.03	5.286e+04	1.40	-3.20
77	47	351.55	-3500.57	-289.30	-9.48e-03	5.069e+04	1.05	-1.55
77	47	355.97	-2922.70	-178.88	-0.01	4.186e+04	1.05	0.51
77	47	360.39	-2347.43	-136.70	-0.01	3.373e+04	0.80	1.13
77	47	364.82	-1769.94	-122.20	-0.01	2.517e+04	0.70	2.83
77	47	369.24	-1193.15	-127.85	-0.03	1.663e+04	0.74	3.42
77	47	373.66	-632.09	-157.34	-0.02	8948.08	0.27	1.75
77	47	378.52	-154.98	-43.80	-4.19e-03	475.74	0.16	1.19
77	48	0.0	-5099.13	-179.66	0.10	-6.626e+04	-5.05e-06	-3.91
77	48	45.00	-5099.13	-179.66	0.10	-5.818e+04	6.38	-5.62
77	48	130.00	-5111.93	-145.98	0.04	-4.432e+04	10.11	-7.67
77	48	215.00	-5016.13	-145.12	-0.04	-2.544e+04	9.05	-8.33
77	48	305.00	-4874.40	-102.34	6.50e-05	1.852e+04	3.35	-6.63
77	48	340.00	-4776.27	-70.26	-0.01	-6836.88	1.70	-5.02
77	48	342.77	-4604.60	-227.97	-0.03	5.438e+04	1.51	-4.28
77	48	345.55	-4253.36	-324.69	-0.03	5.286e+04	1.40	-3.20
77	48	351.55	-3500.57	-289.30	-9.48e-03	5.069e+04	1.05	-1.55
77	48	355.97	-2922.70	-178.88	-0.01	4.186e+04	1.05	0.51
77	48	360.39	-2347.43	-136.70	-0.01	3.373e+04	0.80	1.13
77	48	364.82	-1769.94	-122.20	-0.01	2.517e+04	0.70	2.83
77	48	369.24	-1193.15	-127.85	-0.03	1.663e+04	0.74	3.42
77	48	373.66	-632.09	-157.34	-0.02	8948.08	0.27	1.75
77	48	378.52	-154.98	-43.80	-4.19e-03	475.74	0.16	1.19

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-1.113e+04	-1527.08	-0.17	-1.805e+05	-15.76	-26.10
	-55.26	5.49	0.28	1.755e+05	21.52	6.72

Macro	Tipo	Angolo 1-Z (gradi)
85	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
85	2	0.0	-1.035e+04	-421.65	-0.21	3.618e+04	-1.26e-05	-4.00
85	2	45.00	-1.035e+04	-421.65	-0.21	5.515e+04	-25.82	1.33
85	2	130.00	-1.042e+04	-303.08	0.08	5.599e+04	-15.75	17.56
85	2	215.00	-1.029e+04	-239.84	0.43	5.930e+04	49.30	20.72
85	2	305.00	-1.010e+04	-199.47	-0.14	-4.017e+04	24.80	7.91
85	2	340.00	-9741.38	-217.99	-0.18	-2.717e+04	5.84	7.63
85	2	343.34	-9251.04	-477.76	-0.10	1.003e+05	5.45	14.31
85	2	346.67	-8404.94	-523.12	-0.05	1.009e+05	5.21	16.85
85	2	350.01	-7509.30	-565.52	-0.03	8.555e+04	4.59	16.43
85	2	353.35	-6595.93	-681.28	-0.06	6.618e+04	4.32	16.99
85	2	358.78	-5200.36	-590.23	-0.08	5.547e+04	3.28	13.27
85	2	363.02	-4082.29	-376.66	-0.07	4.029e+04	2.54	11.81
85	2	367.27	-2985.99	-286.74	-0.07	2.866e+04	1.89	10.20
85	2	371.51	-1898.53	-239.89	-0.06	1.794e+04	1.10	7.68
85	2	375.76	-860.94	-175.21	-0.03	8351.19	0.42	4.76
85	8	0.0	-9782.79	-236.93	-0.38	5.735e+04	-2.55e-05	-14.06
85	8	45.00	-9782.78	-236.93	-0.38	6.800e+04	-46.48	-5.49
85	8	130.00	-9828.60	-130.91	0.18	6.541e+04	-20.59	22.60
85	8	215.00	-9669.90	-74.67	0.60	6.414e+04	67.07	23.82
85	8	305.00	-9455.87	-39.98	-0.16	-3.395e+04	37.36	5.56
85	8	340.00	-9097.05	-69.86	-0.24	-1.896e+04	10.51	8.39
85	8	343.34	-8642.49	-322.88	-0.15	1.010e+05	9.75	17.90
85	8	346.67	-7850.27	-374.91	-0.08	1.006e+05	9.24	22.00
85	8	350.01	-7011.15	-425.86	-0.06	8.517e+04	8.27	22.32
85	8	353.35	-6155.67	-548.34	-0.10	6.603e+04	7.71	23.52
85	8	358.78	-4849.98	-486.43	-0.13	5.484e+04	6.07	19.78
85	8	363.02	-3804.13	-301.46	-0.12	3.982e+04	4.85	18.23
85	8	367.27	-2779.60	-231.66	-0.12	2.835e+04	3.64	16.10
85	8	371.51	-1763.65	-202.62	-0.11	1.785e+04	2.30	12.96
85	8	375.76	-794.42	-155.98	-0.07	8442.50	0.97	8.31
85	34	0.0	-7471.38	-1471.59	-0.15	-2.301e+04	-1.05e-05	-2.10
85	34	45.00	-7471.38	-1471.59	-0.15	4.316e+04	-18.95	2.08
85	34	130.00	-7439.23	-1245.61	0.07	6.056e+04	-8.01	12.97
85	34	215.00	-7254.41	-1068.74	0.24	6.460e+04	28.13	13.63
85	34	305.00	-7033.16	-844.61	-0.06	345.03	17.52	7.26
85	34	340.00	-6714.47	-812.73	-0.11	-4594.37	3.65	5.52
85	34	343.34	-6351.52	-928.16	-0.05	7.555e+04	3.57	10.82
85	34	346.67	-5767.13	-910.16	-0.03	7.651e+04	3.44	12.23
85	34	350.01	-5151.39	-883.63	-0.02	6.724e+04	2.95	11.39
85	34	353.35	-4522.17	-893.25	-0.04	5.477e+04	2.81	12.02
85	34	358.78	-3552.79	-713.93	-0.05	4.642e+04	2.09	8.95
85	34	363.02	-2777.24	-498.14	-0.04	3.514e+04	1.60	7.99
85	34	367.27	-2013.01	-371.38	-0.04	2.543e+04	1.21	6.95
85	34	371.51	-1254.87	-273.19	-0.03	1.589e+04	0.72	5.25
85	34	375.76	-548.09	-165.19	-0.02	7201.96	0.29	3.23
85	35	0.0	-3611.93	-1314.48	-0.06	-4.042e+04	-4.78e-06	0.06
85	35	45.00	-3611.93	-1314.48	-0.06	1.869e+04	-7.51	1.93
85	35	130.00	-3517.62	-1130.66	0.04	3.564e+04	-1.42	5.67
85	35	215.00	-3332.09	-976.06	0.06	3.796e+04	7.92	5.22
85	35	305.00	-3123.49	-766.85	4.87e-03	1.090e+04	7.96	4.20
85	35	340.00	-2887.12	-726.68	-0.04	1099.53	1.23	2.22
85	35	343.34	-2716.58	-736.62	-9.24e-03	3.092e+04	1.34	5.13
85	35	346.67	-2468.06	-700.39	-0.01	3.274e+04	1.32	5.56
85	35	350.01	-2207.48	-657.61	-5.04e-03	3.057e+04	1.07	4.86
85	35	353.35	-1939.56	-622.72	-0.01	2.657e+04	1.06	5.36
85	35	358.78	-1520.38	-479.53	-0.02	2.337e+04	0.76	3.69
85	35	363.02	-1184.31	-347.27	-9.81e-03	1.853e+04	0.56	3.28
85	35	367.27	-849.57	-255.97	-9.75e-03	1.365e+04	0.43	2.90
85	35	371.51	-516.78	-176.18	-9.40e-03	8451.82	0.27	2.19
85	35	375.76	-215.63	-93.94	-4.16e-03	3679.68	0.11	1.33

RELAZIONE DI RESISTENZA AL FUOCO



85	47	0.0	-5031.80	-200.29	-0.04	5600.43	-1.46e-06	0.37
85	47	45.00	-5031.80	-200.29	-0.04	1.461e+04	-4.95	1.44
85	47	130.00	-4995.69	-139.12	4.97e-03	1.471e+04	-5.41	4.86
85	47	215.00	-4830.68	-105.96	0.14	1.557e+04	16.65	7.00
85	47	305.00	-4618.77	-85.84	-0.04	-3.296e+04	9.30	3.18
85	47	340.00	-4347.25	-91.61	-0.06	-2.724e+04	1.76	2.12
85	47	343.34	-4131.28	-199.65	-0.03	3.022e+04	1.71	5.00
85	47	346.67	-3765.75	-220.15	-0.01	3.445e+04	1.65	5.98
85	47	350.01	-3376.58	-241.26	-9.97e-03	3.117e+04	1.44	5.75
85	47	353.35	-2976.05	-296.49	-0.02	2.522e+04	1.38	6.08
85	47	358.78	-2357.16	-258.94	-0.03	2.318e+04	1.04	4.65
85	47	363.02	-1855.89	-164.46	-0.02	1.751e+04	0.77	4.03
85	47	367.27	-1358.93	-125.60	-0.02	1.258e+04	0.57	3.52
85	47	371.51	-863.92	-104.17	-0.02	7632.07	0.32	2.58
85	47	375.76	-394.23	-73.94	-6.86e-03	3311.05	0.11	1.56
85	48	0.0	-5031.80	-200.29	-0.04	5600.43	-1.46e-06	0.37
85	48	45.00	-5031.80	-200.29	-0.04	1.461e+04	-4.95	1.44
85	48	130.00	-4995.69	-139.12	4.97e-03	1.471e+04	-5.41	4.86
85	48	215.00	-4830.68	-105.96	0.14	1.557e+04	16.65	7.00
85	48	305.00	-4618.77	-85.84	-0.04	-3.296e+04	9.30	3.18
85	48	340.00	-4347.25	-91.61	-0.06	-2.724e+04	1.76	2.12
85	48	343.34	-4131.28	-199.65	-0.03	3.022e+04	1.71	5.00
85	48	346.67	-3765.75	-220.15	-0.01	3.445e+04	1.65	5.98
85	48	350.01	-3376.58	-241.26	-9.97e-03	3.117e+04	1.44	5.75
85	48	353.35	-2976.05	-296.49	-0.02	2.522e+04	1.38	6.08
85	48	358.78	-2357.16	-258.94	-0.03	2.318e+04	1.04	4.65
85	48	363.02	-1855.89	-164.46	-0.02	1.751e+04	0.77	4.03
85	48	367.27	-1358.93	-125.60	-0.02	1.258e+04	0.57	3.52
85	48	371.51	-863.92	-104.17	-0.02	7632.07	0.32	2.58
85	48	375.76	-394.23	-73.94	-6.86e-03	3311.05	0.11	1.56
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.042e+04	-1471.59	-0.38	-4.042e+04	-46.48	-14.06
			-215.63	-39.98	0.60	1.010e+05	67.07	23.82

Macro	Tipo	Angolo 1-Z (gradi)
69	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
69	2	0.0	-9261.69	-199.21	-0.80	4.832e+05	-3.41e-04	-34.92
69	2	45.00	-9261.69	-199.21	-0.80	4.922e+05	60.94	-81.94
69	2	130.00	-9418.90	-195.24	-3.76	5.675e+05	-491.72	-65.26
69	2	205.00	-9169.13	-195.42	3.59	5.680e+05	-18.71	178.53
69	2	225.00	-8983.62	-195.00	1.00	5.037e+05	-0.61	103.13
69	2	305.00	-8769.32	-195.05	1.02	5.310e+05	65.72	32.06
69	2	340.00	-8301.17	-338.91	-0.67	1.174e+05	-6.12	26.28
69	2	343.46	-7478.85	-384.14	0.01	8.546e+04	-2.99	39.49
69	2	346.92	-6601.71	-521.87	0.08	2.746e+04	-2.62	36.55
69	2	350.92	-5907.31	-768.23	0.09	4.652e+04	-2.24	24.14
69	2	354.92	-5225.96	-454.58	0.15	9.318e+04	-1.11	12.75
69	2	359.10	-4261.50	-242.82	0.07	7.563e+04	-1.05	6.56
69	2	363.28	-3269.73	-179.84	0.05	4.682e+04	-0.80	3.62
69	2	367.46	-2345.99	-161.24	0.04	2.900e+04	-0.61	1.64
69	2	371.64	-1470.14	-158.99	0.04	1.717e+04	-0.45	0.25
69	2	375.82	-650.92	-132.59	0.03	8379.95	-0.22	-0.46
69	13	0.0	-3439.15	96.02	662.47	1.554e+05	-40.84	202.36
69	13	45.00	-3439.15	96.02	662.47	1.511e+05	3.220e+04	1847.56
69	13	130.00	-3346.24	107.92	418.74	2.159e+05	6.795e+04	1330.34
69	13	205.00	-3010.21	107.78	12.31	2.342e+05	6.760e+04	-98.95
69	13	225.00	-2840.89	107.76	-41.32	1.692e+05	6.674e+04	293.43
69	13	305.00	-2621.23	107.65	-342.66	1.866e+05	3.849e+04	-1384.44
69	13	340.00	-2320.23	68.09	-733.13	3.560e+04	1.377e+04	-1168.34
69	13	343.46	-2069.68	94.26	-642.85	1.806e+04	1.101e+04	-5737.38
69	13	346.92	-1819.53	63.32	-536.21	-957.12	8724.18	-9325.99
69	13	350.92	-1624.35	-21.11	-533.05	2014.84	6414.15	-1.088e+04
69	13	354.92	-1449.03	39.18	-533.03	1.700e+04	3995.28	-1.060e+04
69	13	359.10	-1196.37	78.66	-389.25	1.503e+04	2306.27	-9236.25
69	13	363.28	-929.16	70.94	-268.80	8663.53	1009.03	-7675.01
69	13	367.46	-676.73	46.79	-170.64	4755.80	226.32	-6262.45

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



69	13	371.64	-435.54	17.21	-92.40	2338.10	-124.66	-4620.61
69	13	375.82	-207.87	-6.63	-38.17	843.00	-104.21	-2468.79
69	34	0.0	-6420.78	-1074.31	-0.30	2.843e+05	-4.35e-04	5.67
69	34	45.00	-6420.78	-1074.31	-0.30	3.326e+05	94.02	-46.83
69	34	130.00	-6420.06	-962.86	-3.78	3.982e+05	-443.83	-93.82
69	34	205.00	-6147.02	-871.84	2.18	3.984e+05	-142.73	130.64
69	34	225.00	-5936.06	-652.27	1.62	3.334e+05	-102.82	98.58
69	34	305.00	-5776.58	-603.14	1.69	3.763e+05	59.28	60.06
69	34	340.00	-5374.60	-590.29	-0.62	8.396e+04	-6.72	36.28
69	34	343.46	-4794.93	-620.93	0.12	4.656e+04	-2.66	41.71
69	34	346.92	-4229.87	-705.34	3.88e-03	8514.16	-2.80	29.59
69	34	350.92	-3794.13	-819.86	0.08	2.563e+04	-2.22	14.40
69	34	354.92	-3336.67	-566.98	0.15	5.230e+04	-1.31	4.23
69	34	359.10	-2714.59	-418.90	0.09	3.982e+04	-1.21	-1.03
69	34	363.28	-2096.84	-326.65	0.07	2.512e+04	-0.76	-2.43
69	34	367.46	-1514.40	-238.51	0.04	1.616e+04	-0.40	-3.20
69	34	371.64	-956.24	-171.84	0.02	1.006e+04	-0.14	-2.81
69	34	375.82	-427.78	-107.60	7.19e-04	5078.42	-0.12	-1.82
69	35	0.0	-3145.44	-1004.70	0.11	1.201e+05	-3.83e-04	21.53
69	35	45.00	-3145.44	-1004.70	0.11	1.653e+05	97.03	-20.86
69	35	130.00	-3058.78	-897.33	-2.87	2.041e+05	-301.95	-87.96
69	35	205.00	-2826.01	-806.24	0.85	2.013e+05	-171.23	73.08
69	35	225.00	-2661.79	-586.81	1.55	1.523e+05	-129.91	73.03
69	35	305.00	-2547.10	-537.67	1.62	1.887e+05	40.31	62.71
69	35	340.00	-2260.33	-471.01	-0.42	4.340e+04	-5.08	34.63
69	35	343.46	-1978.32	-472.83	0.15	1.376e+04	-1.53	34.36
69	35	346.92	-1741.81	-503.07	-0.05	-3113.52	-1.94	20.08
69	35	350.92	-1568.16	-524.49	0.05	6862.89	-1.41	7.12
69	35	354.92	-1368.89	-390.63	0.10	1.631e+04	-0.91	0.29
69	35	359.10	-1111.90	-324.07	0.07	1.086e+04	-0.82	-2.96
69	35	363.28	-868.80	-257.03	0.05	7331.94	-0.46	-3.59
69	35	367.46	-633.91	-176.68	0.03	5187.08	-0.18	-3.71
69	35	371.64	-404.61	-111.29	7.52e-03	3542.69	0.02	-2.87
69	35	375.82	-183.90	-57.14	-9.97e-03	1872.91	-0.04	-1.64
69	47	0.0	-4507.48	-100.65	-0.03	2.456e+05	-3.36e-04	-8.09
69	47	45.00	-4507.48	-100.65	-0.03	2.501e+05	92.97	-47.06
69	47	130.00	-4513.50	-105.22	-2.81	2.861e+05	-310.88	-75.19
69	47	205.00	-4281.05	-105.30	1.55	2.795e+05	-95.16	98.23
69	47	225.00	-4147.62	-105.09	1.19	2.328e+05	-66.89	76.26
69	47	305.00	-3972.76	-105.11	1.21	2.533e+05	43.71	51.36
69	47	340.00	-3630.20	-168.23	-0.43	5.351e+04	-2.98	33.08
69	47	343.46	-3250.03	-160.13	0.07	3.138e+04	-0.11	36.60
69	47	346.92	-2869.58	-214.28	-0.04	6224.30	-0.38	27.13
69	47	350.92	-2572.31	-320.09	0.03	1.578e+04	-0.12	15.89
69	47	354.92	-2281.67	-187.38	0.07	3.759e+04	0.28	8.83
69	47	359.10	-1867.85	-100.30	0.02	3.156e+04	0.21	5.46
69	47	363.28	-1438.73	-76.76	3.40e-03	2.013e+04	0.16	3.33
69	47	367.46	-1034.02	-70.48	7.30e-04	1.268e+04	0.09	2.20
69	47	371.64	-647.83	-69.72	-2.35e-04	7464.17	0.04	1.22
69	47	375.82	-287.33	-57.43	2.85e-03	3565.16	-6.61e-03	0.45
69	48	0.0	-4507.48	-100.65	-0.03	2.456e+05	-3.36e-04	-8.09
69	48	45.00	-4507.48	-100.65	-0.03	2.501e+05	92.97	-47.06
69	48	130.00	-4513.50	-105.22	-2.81	2.861e+05	-310.88	-75.19
69	48	205.00	-4281.05	-105.30	1.55	2.795e+05	-95.16	98.23
69	48	225.00	-4147.62	-105.09	1.19	2.328e+05	-66.89	76.26
69	48	305.00	-3972.76	-105.11	1.21	2.533e+05	43.71	51.36
69	48	340.00	-3630.20	-168.23	-0.43	5.351e+04	-2.98	33.08
69	48	343.46	-3250.03	-160.13	0.07	3.138e+04	-0.11	36.60
69	48	346.92	-2869.58	-214.28	-0.04	6224.30	-0.38	27.13
69	48	350.92	-2572.31	-320.09	0.03	1.578e+04	-0.12	15.89
69	48	354.92	-2281.67	-187.38	0.07	3.759e+04	0.28	8.83
69	48	359.10	-1867.85	-100.30	0.02	3.156e+04	0.21	5.46
69	48	363.28	-1438.73	-76.76	3.40e-03	2.013e+04	0.16	3.33
69	48	367.46	-1034.02	-70.48	7.30e-04	1.268e+04	0.09	2.20
69	48	371.64	-647.83	-69.72	-2.35e-04	7464.17	0.04	1.22
69	48	375.82	-287.33	-57.43	2.85e-03	3565.16	-6.61e-03	0.45

M_S

N memb.

V memb.

V orto

M memb.

M orto

T

-9418.90	-1074.31	-733.13	-3113.52	-491.72	-1.088e+04
-183.90	107.92	662.47	5.680e+05	6.795e+04	1847.56

Macro	Tipo	Angolo 1-Z (gradi)
131	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
131	2	0.0	-1.952e+04	-358.17	-0.10	1.108e+07	-2.40e-05	-6.66
131	2	45.00	-1.952e+04	-358.17	-0.10	1.107e+07	-30.13	3.19
131	2	130.00	-1.990e+04	-213.24	-0.20	1.161e+07	-35.91	23.32
131	2	215.00	-2.012e+04	-190.00	0.15	1.218e+07	-27.59	14.38
131	2	305.00	-2.028e+04	-489.67	0.08	8.862e+06	9.38	-14.40
131	2	340.00	-2.035e+04	-781.38	0.13	9.199e+06	-15.35	-34.81
131	2	343.69	-1.948e+04	-1509.85	0.18	5.763e+06	-11.77	-20.70
131	2	344.44	-1.895e+04	-1488.28	0.20	5.498e+06	-11.90	-21.21
131	2	348.89	-1.662e+04	-1699.24	0.20	8.291e+06	-10.22	-19.79
131	2	349.06	-1.652e+04	-1700.52	0.20	8.249e+06	-10.17	-19.92
131	2	350.95	-1.532e+04	-1380.09	0.19	4.848e+06	-9.64	-20.96
131	2	353.33	-1.405e+04	-1145.10	0.15	4.568e+06	-8.88	-21.01
131	2	356.38	-1.237e+04	-1081.01	0.17	4.156e+06	-7.51	-22.92
131	2	357.78	-1.158e+04	-801.40	0.18	3.979e+06	-7.55	-24.13
131	2	360.52	-1.008e+04	-698.87	0.20	3.570e+06	-7.17	-23.06
131	2	362.22	-9155.15	-528.42	0.22	4.895e+06	-6.31	-21.66
131	2	364.66	-7825.27	-610.59	0.22	4.243e+06	-5.19	-19.86
131	2	366.67	-6750.42	-543.68	0.21	3.678e+06	-4.35	-18.51
131	2	368.80	-5585.56	-778.30	0.19	3.058e+06	-3.77	-16.86
131	2	371.11	-4346.42	-738.05	0.15	1.833e+06	-3.07	-13.89
131	2	373.70	-2989.35	-860.46	0.10	1.625e+06	-0.91	-10.81
131	2	375.56	-1844.87	-560.94	0.08	8.835e+05	0.55	-11.50
131	2	378.60	-499.04	-201.80	0.08	1.872e+05	-0.63	-7.30
131	24	0.0	-1.340e+04	266.86	0.06	7.540e+06	0.0	13.86
131	24	45.00	-1.340e+04	266.86	0.06	7.528e+06	5.00	17.21
131	24	130.00	-1.351e+04	364.84	-0.23	7.832e+06	-20.44	16.08
131	24	215.00	-1.346e+04	382.12	-0.12	8.140e+06	-32.49	8.05
131	24	305.00	-1.330e+04	220.14	-0.05	5.829e+06	-36.25	-29.34
131	24	340.00	-1.309e+04	42.61	-4.70e-03	5.971e+06	-14.92	-27.89
131	24	343.69	-1.254e+04	-464.24	-3.88e-04	3.632e+06	-14.53	-33.77
131	24	344.44	-1.221e+04	-457.10	7.55e-03	3.468e+06	-14.18	-34.14
131	24	348.89	-1.073e+04	-650.11	0.04	5.391e+06	-12.81	-36.47
131	24	349.06	-1.067e+04	-654.02	0.04	5.363e+06	-12.78	-36.59
131	24	350.95	-9904.26	-481.84	0.06	3.084e+06	-12.32	-37.24
131	24	353.33	-9096.05	-358.82	0.05	2.913e+06	-11.34	-37.22
131	24	356.38	-8023.20	-364.55	0.08	2.662e+06	-9.85	-38.76
131	24	357.78	-7516.17	-197.44	0.09	2.552e+06	-9.71	-39.66
131	24	360.52	-6554.23	-173.03	0.11	2.301e+06	-8.85	-38.77
131	24	362.22	-5958.33	-79.84	0.14	3.195e+06	-7.90	-37.99
131	24	364.66	-5101.90	-173.31	0.15	2.768e+06	-7.12	-36.02
131	24	366.67	-4407.64	-153.36	0.14	2.400e+06	-6.17	-33.02
131	24	368.80	-3656.68	-345.07	0.13	1.994e+06	-4.95	-29.93
131	24	371.11	-2853.13	-351.37	0.06	1.211e+06	-4.17	-25.61
131	24	373.70	-1984.86	-476.37	-0.02	1.059e+06	-1.15	-19.66
131	24	375.56	-1227.55	-308.46	-0.02	5.757e+05	0.85	-20.40
131	24	378.60	-360.95	-111.14	-0.03	1.245e+05	-2.20	-14.18
131	34	0.0	-1.315e+04	-2436.72	-0.09	7.348e+06	-1.41e-05	-3.63
131	34	45.00	-1.315e+04	-2436.72	-0.09	7.394e+06	-18.48	2.03
131	34	130.00	-1.314e+04	-2020.72	-0.09	7.565e+06	-18.05	12.80
131	34	215.00	-1.308e+04	-1564.15	0.09	7.836e+06	-15.27	6.55
131	34	305.00	-1.307e+04	-1547.12	0.04	5.764e+06	3.83	-8.16
131	34	340.00	-1.296e+04	-1752.75	0.11	5.946e+06	-9.78	-21.28
131	34	343.69	-1.236e+04	-2077.15	0.14	3.499e+06	-7.60	-13.09
131	34	344.44	-1.204e+04	-2038.23	0.16	3.357e+06	-7.66	-13.31
131	34	348.89	-1.057e+04	-2028.20	0.15	5.373e+06	-6.62	-11.75
131	34	349.06	-1.050e+04	-2024.80	0.15	5.346e+06	-6.60	-11.80
131	34	350.95	-9746.31	-1754.30	0.14	2.972e+06	-6.13	-11.80
131	34	353.33	-8941.97	-1503.37	0.10	2.806e+06	-5.46	-12.18
131	34	356.38	-7879.00	-1357.84	0.13	2.560e+06	-4.88	-14.08
131	34	357.78	-7378.57	-1124.07	0.14	2.453e+06	-5.14	-14.69
131	34	360.52	-6423.70	-981.06	0.16	2.206e+06	-4.84	-12.81
131	34	362.22	-5831.88	-813.36	0.17	3.182e+06	-4.04	-11.51
131	34	364.66	-4981.96	-801.84	0.16	2.755e+06	-3.22	-10.47
131	34	366.67	-4293.28	-695.95	0.15	2.387e+06	-2.75	-9.81
131	34	368.80	-3546.37	-790.37	0.14	1.982e+06	-2.43	-8.85
131	34	371.11	-2749.66	-684.13	0.12	1.131e+06	-1.91	-7.15
131	34	373.70	-1879.19	-684.91	0.09	1.047e+06	-0.76	-5.69
131	34	375.56	-1152.80	-423.80	0.08	5.587e+05	0.04	-5.76

RELAZIONE DI RESISTENZA AL FUOCO



131	34	378.60	-307.36	-139.70	0.07	1.073e+05	0.04	-3.10
131	35	0.0	-5901.87	-2311.25	-0.04	3.154e+06	-4.68e-06	-0.98
131	35	45.00	-5901.87	-2311.25	-0.04	3.202e+06	-6.61	0.79
131	35	130.00	-5695.49	-1947.29	-0.02	3.149e+06	-4.14	3.63
131	35	215.00	-5456.73	-1497.74	0.03	3.170e+06	-4.09	0.81
131	35	305.00	-5282.35	-1362.95	1.53e-03	2.326e+06	-1.33	-2.13
131	35	340.00	-5034.35	-1448.70	0.07	2.340e+06	-3.84	-6.79
131	35	343.69	-4767.23	-1483.04	0.08	1.260e+06	-3.13	-4.64
131	35	344.44	-4662.79	-1453.28	0.08	1.224e+06	-3.13	-4.65
131	35	348.89	-4106.24	-1359.98	0.08	2.134e+06	-2.72	-3.69
131	35	349.06	-4082.28	-1355.88	0.08	2.124e+06	-2.72	-3.70
131	35	350.95	-3798.89	-1210.96	0.06	1.100e+06	-2.45	-3.29
131	35	353.33	-3491.99	-1052.54	0.05	1.043e+06	-2.07	-3.67
131	35	356.38	-3084.61	-931.30	0.06	9.604e+05	-2.03	-4.84
131	35	357.78	-2893.31	-807.14	0.07	9.208e+05	-2.26	-4.98
131	35	360.52	-2522.00	-704.19	0.08	8.339e+05	-2.10	-3.56
131	35	362.22	-2290.42	-604.00	0.09	1.280e+06	-1.64	-2.83
131	35	364.66	-1955.64	-561.19	0.08	1.106e+06	-1.25	-2.51
131	35	366.67	-1682.23	-483.19	0.08	9.576e+05	-1.10	-2.38
131	35	368.80	-1385.16	-487.36	0.07	7.928e+05	-1.00	-2.07
131	35	371.11	-1066.41	-398.83	0.07	4.267e+05	-0.74	-1.56
131	35	373.70	-721.48	-351.52	0.06	4.138e+05	-0.44	-1.35
131	35	375.56	-438.10	-206.99	0.05	2.123e+05	-0.20	-1.12
131	35	378.60	-117.40	-59.98	0.04	3.361e+04	0.33	-0.12
131	47	0.0	-9091.22	-185.75	-0.01	5.021e+06	-8.41e-06	-2.21
131	47	45.00	-9091.22	-185.75	-0.01	5.020e+06	-9.55	1.30
131	47	130.00	-9132.38	-112.44	-0.06	5.213e+06	-10.80	8.48
131	47	215.00	-9043.87	-97.63	0.03	5.400e+06	-7.52	5.36
131	47	305.00	-8867.16	-219.85	0.02	3.836e+06	-0.04	-3.53
131	47	340.00	-8670.37	-319.96	0.06	3.902e+06	-5.30	-9.09
131	47	343.69	-8305.63	-614.19	0.07	2.413e+06	-4.27	-5.40
131	47	344.44	-8095.33	-605.47	0.08	2.313e+06	-4.28	-5.54
131	47	348.89	-7139.27	-694.44	0.08	3.556e+06	-3.68	-5.09
131	47	349.06	-7098.00	-695.02	0.08	3.538e+06	-3.67	-5.14
131	47	350.95	-6606.13	-564.90	0.08	2.075e+06	-3.47	-5.45
131	47	353.33	-6078.04	-464.40	0.06	1.961e+06	-3.19	-5.51
131	47	356.38	-5371.00	-440.05	0.07	1.800e+06	-2.71	-6.25
131	47	357.78	-5036.81	-319.77	0.07	1.724e+06	-2.72	-6.71
131	47	360.52	-4395.52	-281.13	0.08	1.558e+06	-2.57	-6.54
131	47	362.22	-3996.64	-208.28	0.09	2.137e+06	-2.30	-6.20
131	47	364.66	-3419.41	-250.25	0.09	1.848e+06	-1.95	-5.62
131	47	366.67	-2948.54	-223.61	0.09	1.602e+06	-1.61	-5.16
131	47	368.80	-2437.93	-331.45	0.08	1.329e+06	-1.37	-4.68
131	47	371.11	-1892.16	-316.20	0.07	8.060e+05	-1.08	-3.78
131	47	373.70	-1304.12	-370.93	0.05	7.017e+05	-0.35	-2.93
131	47	375.56	-804.22	-239.92	0.04	3.751e+05	0.14	-3.19
131	47	378.60	-235.63	-81.87	0.03	8.047e+04	-0.10	-2.06
131	48	0.0	-9091.22	-185.75	-0.01	5.021e+06	-8.41e-06	-2.21
131	48	45.00	-9091.22	-185.75	-0.01	5.020e+06	-9.55	1.30
131	48	130.00	-9132.38	-112.44	-0.06	5.213e+06	-10.80	8.48
131	48	215.00	-9043.87	-97.63	0.03	5.400e+06	-7.52	5.36
131	48	305.00	-8867.16	-219.85	0.02	3.836e+06	-0.04	-3.53
131	48	340.00	-8670.37	-319.96	0.06	3.902e+06	-5.30	-9.09
131	48	343.69	-8305.63	-614.19	0.07	2.413e+06	-4.27	-5.40
131	48	344.44	-8095.33	-605.47	0.08	2.313e+06	-4.28	-5.54
131	48	348.89	-7139.27	-694.44	0.08	3.556e+06	-3.68	-5.09
131	48	349.06	-7098.00	-695.02	0.08	3.538e+06	-3.67	-5.14
131	48	350.95	-6606.13	-564.90	0.08	2.075e+06	-3.47	-5.45
131	48	353.33	-6078.04	-464.40	0.06	1.961e+06	-3.19	-5.51
131	48	356.38	-5371.00	-440.05	0.07	1.800e+06	-2.71	-6.25
131	48	357.78	-5036.81	-319.77	0.07	1.724e+06	-2.72	-6.71
131	48	360.52	-4395.52	-281.13	0.08	1.558e+06	-2.57	-6.54
131	48	362.22	-3996.64	-208.28	0.09	2.137e+06	-2.30	-6.20
131	48	364.66	-3419.41	-250.25	0.09	1.848e+06	-1.95	-5.62
131	48	366.67	-2948.54	-223.61	0.09	1.602e+06	-1.61	-5.16
131	48	368.80	-2437.93	-331.45	0.08	1.329e+06	-1.37	-4.68
131	48	371.11	-1892.16	-316.20	0.07	8.060e+05	-1.08	-3.78
131	48	373.70	-1304.12	-370.93	0.05	7.017e+05	-0.35	-2.93
131	48	375.56	-804.22	-239.92	0.04	3.751e+05	0.14	-3.19
131	48	378.60	-235.63	-81.87	0.03	8.047e+04	-0.10	-2.06
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.035e+04	-2436.72	-0.23	3.361e+04	-36.25	-39.66
			-117.40	382.12	0.22	1.218e+07	9.38	23.32

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Macro	Tipo	Angolo 1-Z (gradi)
128	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
128	2	0.0	-7475.69	166.19	-0.28	-2.048e+05	-5.43e-05	4.99
128	2	45.00	-7475.68	166.19	-0.28	-2.122e+05	-14.80	-5.15
128	2	130.00	-7579.64	186.50	-0.34	-2.572e+05	-29.12	13.40
128	2	215.00	-7476.30	191.89	-0.23	-2.900e+05	18.05	78.01
128	2	305.00	-7331.31	93.16	-3.89	-2.180e+05	-769.33	34.35
128	2	340.00	-6386.50	216.13	5.01	-1.954e+04	-402.10	-214.50
128	2	344.03	-5936.17	67.64	4.90	5.682e+04	-364.27	-237.18
128	2	348.06	-5284.04	32.25	4.86	6.254e+04	-325.54	-251.02
128	2	352.09	-4573.86	13.43	4.90	5.067e+04	-287.03	-263.14
128	2	356.12	-3843.02	-24.75	4.97	3.302e+04	-248.16	-273.20
128	2	360.15	-3151.21	-104.05	5.03	2.123e+04	-208.71	-282.27
128	2	362.59	-2738.31	-160.37	5.10	1.557e+04	-185.12	-287.32
128	2	365.02	-2370.54	-162.95	5.18	1.818e+04	-161.45	-289.18
128	2	367.46	-1957.83	-114.44	5.28	1.601e+04	-137.67	-288.70
128	2	371.64	-1264.68	-40.06	5.47	1.364e+04	-98.47	-278.07
128	2	375.82	-547.92	-18.66	4.47	5963.35	-40.38	-200.82
128	25	0.0	-2336.75	62.13	-560.78	-2.514e+04	-2.38e-04	75.12
128	25	45.00	-2336.75	62.13	-560.78	-2.793e+04	-2.615e+04	348.40
128	25	130.00	-2319.47	70.49	-347.66	-4.168e+04	-5.448e+04	244.81
128	25	215.00	-2209.91	72.95	-27.97	-5.171e+04	-5.885e+04	-17.76
128	25	305.00	-2039.99	53.81	296.95	-3.422e+04	-3.395e+04	-24.20
128	25	340.00	-1709.07	97.78	648.59	-5241.77	-1.194e+04	622.55
128	25	344.03	-1595.97	53.58	600.99	1.762e+04	-9217.09	2967.27
128	25	348.06	-1425.17	39.12	539.04	2.042e+04	-6769.95	4728.59
128	25	352.09	-1235.81	25.88	455.75	1.775e+04	-4659.22	6105.44
128	25	356.12	-1036.45	3.39	357.53	1.253e+04	-3002.43	7055.34
128	25	360.15	-845.58	-31.63	275.97	8394.51	-1822.28	7297.82
128	25	362.59	-732.61	-54.59	240.05	6447.99	-1186.89	7171.33
128	25	365.02	-633.13	-59.92	208.63	6996.44	-667.35	6942.31
128	25	367.46	-520.94	-48.82	176.43	6223.26	-207.93	6562.71
128	25	371.64	-330.93	-30.03	109.95	5030.67	132.55	5246.75
128	25	375.82	-137.17	-23.72	46.06	2445.02	98.59	2867.64
128	44	0.0	-5323.44	854.95	-0.19	-2.786e+04	-2.10e-05	-3.11
128	44	45.00	-5323.44	854.95	-0.19	-6.631e+04	-11.83	-4.19
128	44	130.00	-5318.88	979.38	-0.21	-1.202e+05	-22.66	20.79
128	44	215.00	-5123.30	954.91	-0.11	-1.557e+05	8.54	57.46
128	44	305.00	-4869.35	874.27	-2.07	-1.284e+05	-408.00	37.23
128	44	340.00	-4178.63	864.52	2.63	-1.486e+04	-209.71	-91.32
128	44	344.03	-3912.30	704.00	2.60	4.330e+04	-190.44	-110.05
128	44	348.06	-3489.89	608.42	2.59	4.715e+04	-170.19	-119.79
128	44	352.09	-3023.71	513.53	2.63	3.791e+04	-150.37	-129.24
128	44	356.12	-2539.85	395.73	2.69	2.449e+04	-129.96	-134.66
128	44	360.15	-2073.75	247.34	2.71	1.366e+04	-109.21	-140.24
128	44	362.59	-1793.31	135.64	2.75	7594.93	-96.85	-143.33
128	44	365.02	-1552.00	63.72	2.80	8551.89	-84.48	-144.71
128	44	367.46	-1289.88	38.79	2.85	7722.98	-72.00	-144.77
128	44	371.64	-845.65	32.17	2.95	7399.91	-51.49	-140.06
128	44	375.82	-378.60	9.39	2.39	3292.03	-20.68	-100.28
128	47	0.0	-3563.38	26.40	-0.08	-7.665e+04	-1.27e-05	-0.09
128	47	45.00	-3563.38	26.40	-0.08	-7.784e+04	-4.13	-2.64
128	47	130.00	-3535.57	26.79	-0.09	-9.304e+04	-7.31	2.84
128	47	215.00	-3382.04	28.04	-0.06	-1.033e+05	5.48	19.65
128	47	305.00	-3183.07	2.01	-1.06	-6.517e+04	-209.47	7.76
128	47	340.00	-2771.89	29.08	1.34	-1.487e+04	-108.06	-58.07
128	47	344.03	-2579.41	-29.71	1.30	1.914e+04	-98.02	-65.21
128	47	348.06	-2303.21	-43.35	1.29	2.405e+04	-87.61	-69.04
128	47	352.09	-1999.16	-50.87	1.30	2.062e+04	-77.27	-72.22
128	47	356.12	-1682.84	-67.92	1.32	1.389e+04	-66.80	-74.73
128	47	360.15	-1381.25	-103.18	1.34	9186.89	-56.20	-77.09
128	47	362.59	-1201.55	-126.32	1.36	7014.13	-49.81	-78.28
128	47	365.02	-1041.11	-123.09	1.38	8419.30	-43.43	-78.91
128	47	367.46	-859.40	-95.67	1.40	7530.92	-37.09	-78.82
128	47	371.64	-553.15	-53.62	1.46	6359.50	-26.53	-75.83
128	47	375.82	-240.34	-31.88	1.20	2924.07	-10.97	-55.00
128	48	0.0	-3563.38	26.40	-0.08	-7.665e+04	-1.27e-05	-0.09
128	48	45.00	-3563.38	26.40	-0.08	-7.784e+04	-4.13	-2.64

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



128	48	130.00	-3535.57	26.79	-0.09	-9.304e+04	-7.31	2.84
128	48	215.00	-3382.04	28.04	-0.06	-1.033e+05	5.48	19.65
128	48	305.00	-3183.07	2.01	-1.06	-6.517e+04	-209.47	7.76
128	48	340.00	-2771.89	29.08	1.34	-1.487e+04	-108.06	-58.07
128	48	344.03	-2579.41	-29.71	1.30	1.914e+04	-98.02	-65.21
128	48	348.06	-2303.21	-43.35	1.29	2.405e+04	-87.61	-69.04
128	48	352.09	-1999.16	-50.87	1.30	2.062e+04	-77.27	-72.22
128	48	356.12	-1682.84	-67.92	1.32	1.389e+04	-66.80	-74.73
128	48	360.15	-1381.25	-103.18	1.34	9186.89	-56.20	-77.09
128	48	362.59	-1201.55	-126.32	1.36	7014.13	-49.81	-78.28
128	48	365.02	-1041.11	-123.09	1.38	8419.30	-43.43	-78.91
128	48	367.46	-859.40	-95.67	1.40	7530.92	-37.09	-78.82
128	48	371.64	-553.15	-53.62	1.46	6359.50	-26.53	-75.83
128	48	375.82	-240.34	-31.88	1.20	2924.07	-10.97	-55.00

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-7579.64	-162.95	-560.78	-2.900e+05	-5.885e+04	-289.18
	-137.17	979.38	648.59	6.254e+04	132.55	7297.82

Macro	Tipo	Angolo 1-Z (gradi)
125	Setto	0.0

M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
125	2	0.0	-1.137e+04	-140.58	-0.46	-2.264e+05	-3.15e-05	13.58
125	2	45.00	-1.137e+04	-140.58	-0.46	-2.201e+05	-113.63	55.67
125	2	130.00	-1.156e+04	-132.24	1.32	-2.215e+05	100.43	114.86
125	2	205.00	-1.154e+04	-139.31	1.70	-2.423e+05	393.70	19.15
125	2	215.00	-1.146e+04	-152.31	-1.86	-2.652e+05	341.13	-55.39
125	2	305.00	-1.133e+04	-109.37	-2.08	1.649e+05	15.67	-123.81
125	2	340.00	-1.114e+04	-297.77	-0.89	-2.026e+04	11.25	-58.64
125	2	344.05	-1.034e+04	-499.31	-0.80	1.122e+05	2.70	-46.99
125	2	348.10	-9153.09	-493.98	-0.15	1.074e+05	2.18	-18.09
125	2	352.15	-7925.01	-456.60	0.05	8.823e+04	2.38	-0.04
125	2	356.20	-6704.56	-419.21	0.02	7.065e+04	2.66	6.15
125	2	360.25	-5499.32	-390.72	-0.02	5.628e+04	2.62	7.53
125	2	364.30	-4309.00	-380.61	-0.07	4.468e+04	2.45	7.56
125	2	368.35	-3127.78	-412.20	-0.12	3.495e+04	2.06	6.15
125	2	372.40	-1917.98	-543.59	-0.15	2.496e+04	1.34	4.21
125	2	377.83	-417.73	-369.66	-0.09	1.001e+04	-0.57	-0.15
125	12	0.0	-7611.17	112.13	-0.73	-1.160e+05	-4.66e-05	-10.69
125	12	45.00	-7611.17	112.13	-0.73	-1.210e+05	-166.10	43.64
125	12	130.00	-7685.81	116.63	1.61	-1.214e+05	96.13	138.88
125	12	205.00	-7599.02	111.95	2.15	-1.261e+05	473.31	33.07
125	12	215.00	-7530.08	103.84	-2.21	-1.472e+05	412.08	-55.72
125	12	305.00	-7305.28	135.72	-2.43	1.228e+05	31.93	-147.23
125	12	340.00	-7012.96	15.63	-0.99	-4782.04	6.90	-81.62
125	12	344.05	-6483.60	-99.19	-0.79	6.828e+04	-1.68	-57.83
125	12	348.10	-5743.81	-114.41	0.01	6.548e+04	-1.53	-20.98
125	12	352.15	-4979.10	-115.95	0.21	5.447e+04	-0.58	0.75
125	12	356.20	-4217.04	-118.89	0.15	4.405e+04	0.37	7.81
125	12	360.25	-3462.17	-126.48	0.10	3.526e+04	0.67	8.62
125	12	364.30	-2713.84	-144.44	0.05	2.781e+04	0.91	9.04
125	12	368.35	-1969.50	-187.17	-7.81e-03	2.134e+04	0.97	7.53
125	12	372.40	-1209.89	-290.52	-0.04	1.481e+04	0.65	5.21
125	12	377.83	-270.76	-215.95	-0.02	5976.99	-0.02	1.07
125	34	0.0	-7799.41	-1762.93	-0.42	-2.843e+05	-2.96e-05	10.25
125	34	45.00	-7799.41	-1762.93	-0.42	-2.050e+05	-106.66	49.68
125	34	130.00	-7784.23	-1201.83	1.26	-1.544e+05	95.07	107.02
125	34	205.00	-7650.68	-1146.77	1.62	-1.299e+05	379.37	17.16
125	34	215.00	-7466.55	-735.54	-1.90	-1.760e+05	326.31	-56.63
125	34	305.00	-7252.43	-639.08	-2.04	1.307e+05	5.72	-123.65
125	34	340.00	-6955.20	-429.50	-0.78	-1.165e+04	8.87	-58.35
125	34	344.05	-6434.31	-541.67	-0.72	6.457e+04	0.60	-48.75
125	34	348.10	-5699.72	-544.93	-0.10	6.352e+04	0.38	-20.59
125	34	352.15	-4938.78	-505.06	0.09	5.361e+04	0.78	-3.03
125	34	356.20	-4179.77	-451.39	0.06	4.392e+04	1.29	3.22
125	34	360.25	-3428.39	-398.44	0.03	3.574e+04	1.38	4.50
125	34	364.30	-2683.89	-356.07	-0.02	2.873e+04	1.50	5.29
125	34	368.35	-1942.97	-346.18	-0.07	2.245e+04	1.37	4.10

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



125	34	372.40	-1187.63	-400.03	-0.10	1.599e+04	0.89	2.67
125	34	377.83	-252.50	-241.44	-0.06	6403.51	-0.41	-0.22
125	35	0.0	-3609.19	-1722.71	-0.23	-1.925e+05	-1.93e-05	6.86
125	35	45.00	-3609.19	-1722.71	-0.23	-1.150e+05	-68.29	33.24
125	35	130.00	-3496.04	-1164.76	0.87	-6.082e+04	68.71	71.73
125	35	205.00	-3319.58	-1107.34	1.10	-2.687e+04	265.76	10.20
125	35	215.00	-3148.62	-690.60	-1.40	-7.007e+04	226.96	-42.56
125	35	305.00	-2926.35	-609.98	-1.45	7.508e+04	-2.96	-89.21
125	35	340.00	-2626.42	-326.79	-0.50	-1157.57	5.11	-41.46
125	35	344.05	-2407.73	-344.35	-0.47	1.917e+04	-0.77	-36.29
125	35	348.10	-2137.61	-346.72	-0.04	2.083e+04	-0.79	-16.54
125	35	352.15	-1858.19	-321.62	0.09	1.941e+04	-0.38	-4.01
125	35	356.20	-1575.86	-283.80	0.07	1.716e+04	0.12	0.63
125	35	360.25	-1293.16	-243.40	0.05	1.472e+04	0.28	1.59
125	35	364.30	-1009.46	-206.21	0.02	1.203e+04	0.52	2.58
125	35	368.35	-724.38	-184.77	-0.02	9107.66	0.56	1.85
125	35	372.40	-438.63	-186.15	-0.04	6160.92	0.37	1.12
125	35	377.83	-89.83	-96.49	-0.03	2467.88	-0.20	-0.16
125	47	0.0	-5290.61	-93.66	-0.17	-9.175e+04	-1.62e-05	11.08
125	47	45.00	-5290.61	-93.66	-0.17	-8.753e+04	-56.58	34.93
125	47	130.00	-5305.57	-89.77	0.80	-8.219e+04	69.51	66.22
125	47	205.00	-5188.45	-93.15	0.99	-8.811e+04	245.55	7.66
125	47	215.00	-5107.91	-97.47	-1.26	-1.115e+05	210.62	-40.03
125	47	305.00	-4919.34	-77.16	-1.34	8.221e+04	-0.54	-80.83
125	47	340.00	-4676.61	-154.58	-0.49	-7473.35	6.12	-36.62
125	47	344.05	-4320.01	-201.07	-0.48	3.976e+04	0.53	-32.29
125	47	348.10	-3837.86	-192.73	-0.08	4.183e+04	0.29	-14.48
125	47	352.15	-3336.15	-178.45	0.05	3.766e+04	0.52	-2.76
125	47	356.20	-2830.46	-166.53	0.04	3.243e+04	0.85	1.61
125	47	360.25	-2323.46	-158.38	0.02	2.695e+04	0.92	2.69
125	47	364.30	-1815.12	-157.00	-0.01	2.131e+04	0.99	3.29
125	47	368.35	-1305.47	-171.04	-0.05	1.561e+04	0.88	2.53
125	47	372.40	-793.85	-218.44	-0.07	9978.06	0.57	1.71
125	47	377.83	-175.17	-149.79	-0.04	4024.17	-0.28	-0.18
125	48	0.0	-5290.61	-93.66	-0.17	-9.175e+04	-1.62e-05	11.08
125	48	45.00	-5290.61	-93.66	-0.17	-8.753e+04	-56.58	34.93
125	48	130.00	-5305.57	-89.77	0.80	-8.219e+04	69.51	66.22
125	48	205.00	-5188.45	-93.15	0.99	-8.811e+04	245.55	7.66
125	48	215.00	-5107.91	-97.47	-1.26	-1.115e+05	210.62	-40.03
125	48	305.00	-4919.34	-77.16	-1.34	8.221e+04	-0.54	-80.83
125	48	340.00	-4676.61	-154.58	-0.49	-7473.35	6.12	-36.62
125	48	344.05	-4320.01	-201.07	-0.48	3.976e+04	0.53	-32.29
125	48	348.10	-3837.86	-192.73	-0.08	4.183e+04	0.29	-14.48
125	48	352.15	-3336.15	-178.45	0.05	3.766e+04	0.52	-2.76
125	48	356.20	-2830.46	-166.53	0.04	3.243e+04	0.85	1.61
125	48	360.25	-2323.46	-158.38	0.02	2.695e+04	0.92	2.69
125	48	364.30	-1815.12	-157.00	-0.01	2.131e+04	0.99	3.29
125	48	368.35	-1305.47	-171.04	-0.05	1.561e+04	0.88	2.53
125	48	372.40	-793.85	-218.44	-0.07	9978.06	0.57	1.71
125	48	377.83	-175.17	-149.79	-0.04	4024.17	-0.28	-0.18
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.156e+04	-1762.93	-2.43	-2.843e+05	-166.10	-147.23
			-89.83	135.72	2.15	1.649e+05	473.31	138.88

Macro	Tipo	Angolo 1-Z (gradi)
80	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
80	2	0.0	-8544.70	-10.07	24.11	-4.437e+05	-252.87	-70.12
80	2	45.00	-8544.70	-10.07	24.11	-4.433e+05	773.44	-232.60
80	2	130.00	-8549.58	-20.78	38.47	-4.261e+05	3111.50	-48.33
80	2	215.00	-8392.14	-21.50	45.17	-4.165e+05	7204.66	-15.60
80	2	305.00	-6293.26	346.01	27.53	-8.098e+04	1.673e+04	-1.63
80	2	340.00	-3344.51	689.33	902.13	-1.256e+05	-1.037e+04	-77.47
80	2	344.08	-2997.16	707.80	969.42	-4.221e+04	-4861.84	387.86
80	2	348.15	-2374.57	724.43	588.36	-1.287e+04	-2312.04	503.96
80	2	352.23	-1651.09	701.97	281.11	865.96	-690.72	388.54
80	2	356.30	-835.98	518.32	89.65	4675.25	-42.58	269.96

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



80	35	0.0	-2833.97	-774.89	4.53	-2.615e+05	-55.88	-24.44
80	35	45.00	-2833.97	-774.89	4.53	-2.267e+05	145.29	-61.78
80	35	130.00	-2660.63	-845.67	7.69	-1.715e+05	612.52	-16.99
80	35	215.00	-2393.96	-776.09	9.33	-1.259e+05	1391.92	1.78
80	35	305.00	-1692.34	-267.58	11.05	-2.550e+04	3522.74	19.05
80	35	340.00	-946.16	85.02	174.06	-2.889e+04	-2066.95	-33.92
80	35	344.08	-817.09	114.20	185.82	-1.271e+04	-1068.19	26.16
80	35	348.15	-649.09	147.51	123.87	-4255.79	-533.65	52.76
80	35	352.23	-453.62	170.03	67.74	77.00	-163.78	60.02
80	35	356.30	-229.90	140.85	24.88	1197.96	1.84	67.00
80	43	0.0	-3487.80	978.71	4.62	-4.229e+04	-68.73	-13.63
80	43	45.00	-3487.80	978.71	4.62	-8.630e+04	173.56	-62.44
80	43	130.00	-3517.92	1085.22	8.13	-1.478e+05	685.51	-27.60
80	43	215.00	-3475.71	1050.40	9.48	-2.086e+05	1573.34	4.10
80	43	305.00	-2361.78	678.59	3.38	-6.794e+04	3362.80	24.69
80	43	340.00	-1480.86	616.52	197.40	-5.953e+04	-2239.47	-8.03
80	43	344.08	-1342.35	565.88	213.28	-1.961e+04	-1012.31	111.97
80	43	348.15	-1068.01	514.62	125.54	-5580.73	-496.72	120.86
80	43	352.23	-742.54	437.80	60.63	458.17	-161.07	74.50
80	43	356.30	-375.50	288.65	22.47	2201.06	-10.36	45.94
80	47	0.0	-3661.92	13.70	6.71	-1.949e+05	-78.18	-23.75
80	47	45.00	-3661.92	13.70	6.71	-1.955e+05	221.45	-75.78
80	47	130.00	-3607.07	11.26	11.02	-1.908e+05	895.58	-22.34
80	47	215.00	-3464.38	11.10	12.99	-1.897e+05	2080.84	-1.92
80	47	305.00	-2469.10	159.40	7.52	-4.463e+04	4814.89	7.59
80	47	340.00	-1453.11	269.73	251.70	-5.276e+04	-2899.03	-26.71
80	47	344.08	-1294.83	285.52	272.97	-1.856e+04	-1329.23	112.07
80	47	348.15	-1028.74	301.22	163.17	-5215.73	-645.21	130.79
80	47	352.23	-714.91	297.31	78.77	872.90	-199.13	90.07
80	47	356.30	-359.58	221.70	27.06	2378.48	-10.25	64.72
80	48	0.0	-3661.92	13.70	6.71	-1.949e+05	-78.18	-23.75
80	48	45.00	-3661.92	13.70	6.71	-1.955e+05	221.45	-75.78
80	48	130.00	-3607.07	11.26	11.02	-1.908e+05	895.58	-22.34
80	48	215.00	-3464.38	11.10	12.99	-1.897e+05	2080.84	-1.92
80	48	305.00	-2469.10	159.40	7.52	-4.463e+04	4814.89	7.59
80	48	340.00	-1453.11	269.73	251.70	-5.276e+04	-2899.03	-26.71
80	48	344.08	-1294.83	285.52	272.97	-1.856e+04	-1329.23	112.07
80	48	348.15	-1028.74	301.22	163.17	-5215.73	-645.21	130.79
80	48	352.23	-714.91	297.31	78.77	872.90	-199.13	90.07
80	48	356.30	-359.58	221.70	27.06	2378.48	-10.25	64.72
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-8549.58	-845.67	3.38	-4.437e+05	-1.037e+04	-232.60
			-229.90	1085.22	969.42	4675.25	1.673e+04	503.96

Macro	Tipo	Angolo 1-Z (gradi)
82	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
82	2	0.0	-9182.84	-34.50	-22.97	-4.757e+05	252.87	24.15
82	2	45.00	-9182.84	-34.50	-22.97	-4.741e+05	-726.29	187.86
82	2	130.00	-9187.07	-42.50	-37.18	-4.582e+05	-2927.45	26.67
82	2	215.00	-9001.67	-43.65	-44.13	-4.518e+05	-6883.15	29.58
82	2	305.00	-6756.15	444.11	-27.60	-1.000e+05	-1.642e+04	22.75
82	2	340.00	-3768.79	857.32	-905.15	-1.353e+05	1.047e+04	84.86
82	2	344.13	-3349.01	856.76	-971.76	-4.551e+04	4863.72	-406.95
82	2	348.26	-2634.33	859.88	-586.35	-1.334e+04	2279.58	-531.54
82	2	352.40	-1807.51	812.19	-273.66	1442.29	668.09	-415.40
82	2	356.53	-883.06	581.90	-83.13	5318.01	51.92	-249.99
82	35	0.0	-2983.39	-781.97	-4.32	-2.682e+05	55.88	15.38
82	35	45.00	-2983.39	-781.97	-4.32	-2.331e+05	-135.27	52.32
82	35	130.00	-2808.50	-841.87	-7.47	-1.790e+05	-582.96	11.51
82	35	215.00	-2538.41	-758.12	-9.10	-1.356e+05	-1335.02	2.32
82	35	305.00	-1799.81	-245.34	-10.93	-3.074e+04	-3456.09	-13.89
82	35	340.00	-1043.14	144.63	-176.17	-3.293e+04	2095.53	33.12
82	35	344.13	-903.39	166.04	-187.59	-1.403e+04	1070.10	-37.36
82	35	348.26	-715.31	187.53	-123.93	-4284.34	525.53	-65.78
82	35	352.40	-492.87	194.74	-65.91	340.99	156.51	-71.82
82	35	356.53	-240.85	151.70	-22.86	1422.75	0.57	-64.23

RELAZIONE DI RESISTENZA AL FUOCO



82	43	0.0	-3731.89	979.18	-4.36	-6.282e+04	68.73	-2.32
82	43	45.00	-3731.89	979.18	-4.36	-1.069e+05	-161.79	46.26
82	43	130.00	-3773.95	1083.42	-7.84	-1.679e+05	-637.64	18.52
82	43	215.00	-3732.05	1041.39	-9.35	-2.278e+05	-1497.22	-1.02
82	43	305.00	-2555.47	725.79	-3.89	-7.665e+04	-3330.32	-12.61
82	43	340.00	-1651.18	666.70	-197.12	-6.378e+04	2260.47	23.24
82	43	344.13	-1481.27	611.43	-213.06	-2.141e+04	1019.11	-99.87
82	43	348.26	-1170.13	563.63	-125.45	-6195.27	496.28	-112.36
82	43	352.40	-804.25	486.20	-59.96	481.94	159.34	-70.99
82	43	356.53	-393.18	319.23	-21.67	2427.53	10.58	-41.84
82	47	0.0	-3917.71	7.09	-6.36	-2.104e+05	78.18	7.76
82	47	45.00	-3917.71	7.09	-6.36	-2.107e+05	-205.78	59.68
82	47	130.00	-3866.06	6.27	-10.63	-2.063e+05	-837.74	13.83
82	47	215.00	-3717.07	5.98	-12.71	-2.060e+05	-1980.29	6.70
82	47	305.00	-2660.82	211.47	-7.72	-5.305e+04	-4734.56	1.95
82	47	340.00	-1625.08	345.34	-252.93	-5.754e+04	2933.63	34.65
82	47	344.13	-1438.87	352.63	-274.01	-2.031e+04	1335.00	-113.16
82	47	348.26	-1135.73	362.07	-163.14	-5613.07	639.54	-135.31
82	47	352.40	-779.58	347.28	-77.15	1017.42	193.89	-96.22
82	47	356.53	-378.78	251.05	-25.37	2598.15	12.36	-59.50
82	48	0.0	-3917.71	7.09	-6.36	-2.104e+05	78.18	7.76
82	48	45.00	-3917.71	7.09	-6.36	-2.107e+05	-205.78	59.68
82	48	130.00	-3866.06	6.27	-10.63	-2.063e+05	-837.74	13.83
82	48	215.00	-3717.07	5.98	-12.71	-2.060e+05	-1980.29	6.70
82	48	305.00	-2660.82	211.47	-7.72	-5.305e+04	-4734.56	1.95
82	48	340.00	-1625.08	345.34	-252.93	-5.754e+04	2933.63	34.65
82	48	344.13	-1438.87	352.63	-274.01	-2.031e+04	1335.00	-113.16
82	48	348.26	-1135.73	362.07	-163.14	-5613.07	639.54	-135.31
82	48	352.40	-779.58	347.28	-77.15	1017.42	193.89	-96.22
82	48	356.53	-378.78	251.05	-25.37	2598.15	12.36	-59.50
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-9187.07	-841.87	-971.76	-4.757e+05	-1.642e+04	-531.54
			-240.85	1083.42	-3.89	5318.01	1.047e+04	187.86

Macro	Tipo	Angolo 1-Z (gradi)
49	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
49	2	0.0	-1427.16	34.72	-0.07	-3714.21	0.0	18.49
49	2	45.00	-1427.16	34.72	-0.07	-2154.42	-5.26	24.51
49	2	130.00	-1162.36	34.34	0.02	-204.06	-4.52	18.93
49	2	225.00	-936.86	34.26	0.22	1267.64	10.80	-17.66
49	2	305.00	-764.10	34.35	0.61	1987.88	88.84	-32.32
49	2	380.00	-638.91	34.41	-1.42	2311.99	-1.31e-04	-13.97
49	12	0.0	-1082.71	451.93	-0.17	-2.600e+04	0.0	11.41
49	12	45.00	-1082.71	451.93	-0.17	-5697.07	-14.51	15.98
49	12	130.00	-877.20	357.87	0.12	1.137e+04	3.42	14.38
49	12	225.00	-697.63	167.85	0.13	1.325e+04	17.66	-11.27
49	12	305.00	-558.73	-34.75	-0.13	4511.74	80.58	-16.76
49	12	380.00	-456.21	-153.98	-3.37	-5768.23	-3.41e-04	-52.76
49	25	0.0	-574.35	-194.05	0.24	1.718e+04	0.0	2.91
49	25	45.00	-574.35	-194.05	0.24	8463.50	18.59	5.05
49	25	130.00	-457.99	-144.59	-0.09	-1095.67	1.88	5.38
49	25	225.00	-353.09	-44.89	-0.03	-2828.39	-7.63	-5.71
49	25	305.00	-271.45	60.91	0.40	755.15	8.80	-12.51
49	25	380.00	-209.79	124.23	0.73	5537.05	-6.04e-04	14.57
49	47	0.0	-752.75	13.54	-0.03	-899.10	0.0	7.18
49	47	45.00	-752.75	13.54	-0.03	-290.91	-2.12	10.07
49	47	130.00	-606.58	13.44	-1.99e-03	315.82	-2.94	8.41
49	47	225.00	-478.02	13.43	0.10	833.88	3.50	-8.62
49	47	305.00	-378.16	13.47	0.27	1130.63	38.58	-14.77
49	47	380.00	-303.13	13.54	-0.61	1337.88	-4.73e-05	-5.89
49	48	0.0	-752.75	13.54	-0.03	-899.10	0.0	7.18
49	48	45.00	-752.75	13.54	-0.03	-290.91	-2.12	10.07
49	48	130.00	-606.58	13.44	-1.99e-03	315.82	-2.94	8.41
49	48	225.00	-478.02	13.43	0.10	833.88	3.50	-8.62
49	48	305.00	-378.16	13.47	0.27	1130.63	38.58	-14.77
49	48	380.00	-303.13	13.54	-0.61	1337.88	-4.73e-05	-5.89

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-1427.16	-194.05	-3.37	-2.600e+04	-14.51	-52.76
	-209.79	451.93	0.73	1.718e+04	88.84	24.51

Macro	Tipo	Angolo 1-Z (gradi)
119	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
119	2	0.0	-6459.02	-4.73	28.43	-1.416e+05	188.09	478.84
119	2	45.00	-6384.69	1.79	28.43	-1.384e+05	756.89	442.50
119	2	130.00	-5864.78	11.22	13.11	-1.364e+05	1074.15	55.68
119	2	215.00	-5213.83	86.47	2.76	-1.414e+05	692.67	-157.84
119	2	305.00	-4426.20	221.73	10.17	5823.20	923.47	-118.45
119	2	380.00	-2914.58	142.64	-8.77	1.904e+04	369.18	-154.33
119	12	0.0	-4550.89	323.91	22.15	-1.049e+05	145.31	341.87
119	12	45.00	-4530.69	322.15	22.15	-9.787e+04	610.37	312.14
119	12	130.00	-4163.65	323.38	8.57	-9.965e+04	722.77	22.77
119	12	215.00	-3694.87	402.94	2.24	-1.073e+05	420.21	-125.63
119	12	305.00	-3105.47	570.31	8.49	1928.67	628.28	-78.73
119	12	380.00	-2009.20	532.36	-4.15	1.893e+04	228.72	-85.39
119	45	0.0	-2433.60	6.59	15.00	-1.582e+04	69.58	140.50
119	45	45.00	-2389.31	9.10	15.00	-1.222e+04	495.92	128.53
119	45	130.00	-2129.21	17.37	1.31	-1.026e+04	189.97	9.14
119	45	215.00	-1807.22	41.69	0.08	-1.865e+04	-183.35	-62.40
119	45	305.00	-1411.85	75.40	8.75	1.887e+04	202.98	-35.95
119	45	380.00	-860.13	61.88	1.94	1.324e+04	50.26	-30.02
119	47	0.0	-3269.62	-36.08	13.89	-7.503e+04	92.77	230.21
119	47	45.00	-3227.01	-32.78	13.89	-7.368e+04	368.97	210.38
119	47	130.00	-2933.77	-26.91	6.12	-7.010e+04	500.80	19.98
119	47	215.00	-2568.94	7.32	1.68	-6.998e+04	348.70	-82.81
119	47	305.00	-2134.60	65.51	4.99	2075.34	465.93	-52.04
119	47	380.00	-1365.09	33.87	-4.33	7180.58	174.59	-61.67
119	48	0.0	-3269.62	-36.08	13.89	-7.503e+04	92.77	230.21
119	48	45.00	-3227.01	-32.78	13.89	-7.368e+04	368.97	210.38
119	48	130.00	-2933.77	-26.91	6.12	-7.010e+04	500.80	19.98
119	48	215.00	-2568.94	7.32	1.68	-6.998e+04	348.70	-82.81
119	48	305.00	-2134.60	65.51	4.99	2075.34	465.93	-52.04
119	48	380.00	-1365.09	33.87	-4.33	7180.58	174.59	-61.67

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-6459.02	-36.08	-8.77	-1.416e+05	-183.35	-157.84
	-860.13	570.31	28.43	1.904e+04	1074.15	478.84

Macro	Tipo	Angolo 1-Z (gradi)
24	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
24	2	0.0	-7738.95	232.50	171.74	-4219.25	473.50	-8.25
24	2	45.00	-7258.54	248.72	171.74	-7802.16	711.92	-3.95
24	2	130.00	-6163.64	303.18	74.11	-1.899e+04	320.89	5.47
24	2	215.00	-5260.71	336.96	37.33	-2.085e+04	75.63	5.23
24	2	305.00	-4353.29	364.70	18.64	-2.130e+04	325.98	25.64
24	2	380.00	-2834.55	366.67	-59.65	-2.063e+04	777.56	59.73
24	12	0.0	-5515.50	640.83	120.18	-1.680e+04	327.39	-11.06
24	12	45.00	-5183.88	657.21	120.18	-1.758e+04	496.96	-9.03
24	12	130.00	-4382.42	701.59	53.00	-2.438e+04	225.73	-2.26
24	12	215.00	-3698.54	687.27	28.33	-2.590e+04	41.97	-0.24
24	12	305.00	-2993.64	622.74	17.93	-2.643e+04	157.67	20.15
24	12	380.00	-1884.74	529.11	-27.78	-2.524e+04	465.68	46.12
24	28	0.0	-7561.85	230.96	166.34	-2322.30	472.67	-11.69
24	28	45.00	-7092.11	246.40	166.34	-6038.59	723.75	-7.71

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



24	28	130.00	-5979.54	297.51	68.77	-1.823e+04	360.86	4.48
24	28	215.00	-5044.22	329.03	32.55	-2.174e+04	132.61	9.37
24	28	305.00	-4108.63	355.54	17.20	-2.431e+04	370.22	35.75
24	28	380.00	-2599.06	353.79	-47.27	-2.466e+04	679.38	68.21
24	45	0.0	-2178.18	0.61	46.74	-1.855e+04	102.16	-6.90
24	45	45.00	-2054.63	2.77	46.74	-1.878e+04	151.78	-7.86
24	45	130.00	-1761.54	12.34	26.79	-1.899e+04	38.22	-7.30
24	45	215.00	-1498.67	17.99	20.86	-1.796e+04	-61.53	-7.55
24	45	305.00	-1181.29	27.85	20.92	-1.828e+04	-131.91	-1.59
24	45	380.00	-702.28	37.13	12.57	-1.732e+04	86.56	2.56
24	47	0.0	-3984.47	57.65	86.01	2870.23	238.72	-1.86
24	47	45.00	-3740.96	64.53	86.01	213.25	359.69	0.64
24	47	130.00	-3140.94	89.24	36.66	-6247.41	163.03	3.91
24	47	215.00	-2626.68	109.08	17.80	-7432.99	38.31	1.19
24	47	305.00	-2115.78	131.59	8.35	-8007.16	141.65	8.24
24	47	380.00	-1339.45	139.90	-29.21	-8293.80	365.38	23.47
24	48	0.0	-3984.47	57.65	86.01	2870.23	238.72	-1.86
24	48	45.00	-3740.96	64.53	86.01	213.25	359.69	0.64
24	48	130.00	-3140.94	89.24	36.66	-6247.41	163.03	3.91
24	48	215.00	-2626.68	109.08	17.80	-7432.99	38.31	1.19
24	48	305.00	-2115.78	131.59	8.35	-8007.16	141.65	8.24
24	48	380.00	-1339.45	139.90	-29.21	-8293.80	365.38	23.47
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-7738.95	0.61	-59.65	-2.643e+04	-131.91	-11.69
			-702.28	701.59	171.74	2870.23	777.56	68.21

Macro	Tipo	Angolo 1-Z (gradi)
26	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
26	2	0.0	-8601.97	-259.10	95.34	-7.284e+05	492.84	612.59
26	2	45.00	-8326.82	-263.20	95.34	-7.059e+05	2088.74	484.68
26	2	130.00	-7491.68	-356.08	40.74	-6.367e+05	2131.68	5.55
26	2	215.00	-6468.79	-485.09	22.89	-5.635e+05	1268.32	-184.14
26	2	305.00	-4507.91	-904.91	18.95	-2.715e+05	561.63	-244.65
26	2	380.00	-2464.11	-819.36	-2.75	-1.716e+05	429.97	-177.34
26	18	0.0	-7850.58	-383.98	88.26	-6.715e+05	449.64	557.17
26	18	45.00	-7604.99	-385.33	88.26	-6.512e+05	1887.11	436.92
26	18	130.00	-6831.97	-468.26	38.66	-5.856e+05	1900.17	-1.30
26	18	215.00	-5884.71	-594.44	22.30	-5.174e+05	1081.35	-170.47
26	18	305.00	-4081.50	-949.16	18.55	-2.503e+05	434.41	-220.57
26	18	380.00	-2213.02	-846.77	1.18	-1.575e+05	352.31	-160.29
26	45	0.0	-2893.45	-118.24	38.99	-2.249e+05	178.81	168.07
26	45	45.00	-2764.01	-117.89	38.99	-2.117e+05	658.47	116.41
26	45	130.00	-2336.11	-143.88	19.07	-1.742e+05	480.99	-47.05
26	45	215.00	-1849.08	-177.72	11.73	-1.388e+05	-94.58	-80.60
26	45	305.00	-1217.68	-278.57	11.33	-6.721e+04	-121.89	-9.33
26	45	380.00	-556.18	-240.37	13.71	-3.597e+04	-40.53	13.35
26	47	0.0	-4281.50	-153.31	47.32	-3.392e+05	243.70	296.43
26	47	45.00	-4145.69	-154.01	47.32	-3.277e+05	1026.46	233.82
26	47	130.00	-3699.85	-198.32	20.24	-2.929e+05	1035.95	-3.96
26	47	215.00	-3158.68	-260.43	11.25	-2.576e+05	585.90	-96.46
26	47	305.00	-2180.45	-441.05	8.99	-1.196e+05	270.31	-101.16
26	47	380.00	-1164.37	-396.13	-1.49	-7.509e+04	204.32	-69.04
26	48	0.0	-4281.50	-153.31	47.32	-3.392e+05	243.70	296.43
26	48	45.00	-4145.69	-154.01	47.32	-3.277e+05	1026.46	233.82
26	48	130.00	-3699.85	-198.32	20.24	-2.929e+05	1035.95	-3.96
26	48	215.00	-3158.68	-260.43	11.25	-2.576e+05	585.90	-96.46
26	48	305.00	-2180.45	-441.05	8.99	-1.196e+05	270.31	-101.16
26	48	380.00	-1164.37	-396.13	-1.49	-7.509e+04	204.32	-69.04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-8601.97	-949.16	-2.75	-7.284e+05	-121.89	-244.65
			-556.18	-117.89	95.34	-3.597e+04	2131.68	612.59

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Macro	Tipo	Angolo 1-Z (gradi)
90	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
90	2	0.0	-1.081e+04	562.09	106.84	6.895e+05	427.28	-453.21
90	2	45.00	-1.058e+04	566.67	106.84	7.252e+05	1765.22	-434.60
90	2	130.00	-9843.47	644.97	52.37	7.957e+05	2332.86	-169.72
90	2	215.00	-9012.43	762.54	38.58	8.686e+05	2239.33	125.21
90	2	305.00	-6656.48	871.14	8.96	2.751e+05	872.82	249.33
90	2	380.00	-3744.78	656.04	-18.69	1.026e+05	755.66	60.27
90	8	0.0	-9867.50	751.08	98.30	6.226e+05	390.19	-411.41
90	8	45.00	-9675.13	754.96	98.30	6.586e+05	1603.37	-392.54
90	8	130.00	-9002.93	829.56	49.15	7.286e+05	2081.43	-151.71
90	8	215.00	-8240.10	938.46	36.73	8.013e+05	1971.75	117.94
90	8	305.00	-6068.79	975.56	10.16	2.586e+05	775.81	223.33
90	8	380.00	-3392.22	737.84	-11.97	1.017e+05	653.22	57.61
90	45	0.0	-3538.70	124.85	36.72	2.307e+05	145.62	-141.52
90	45	45.00	-3446.01	126.49	36.72	2.389e+05	521.24	-127.99
90	45	130.00	-3069.81	156.49	22.28	2.560e+05	331.02	-29.82
90	45	215.00	-2650.29	196.20	16.37	2.712e+05	-18.12	36.28
90	45	305.00	-1859.09	211.64	10.63	9.337e+04	131.74	29.92
90	45	380.00	-952.63	161.83	10.28	4.457e+04	92.25	7.86
90	47	0.0	-5429.90	227.86	53.15	3.261e+05	215.29	-220.30
90	47	45.00	-5310.46	229.08	53.15	3.431e+05	868.37	-210.13
90	47	130.00	-4882.47	265.13	25.74	3.765e+05	1107.94	-79.14
90	47	215.00	-4398.07	316.58	18.35	4.099e+05	1019.98	57.94
90	47	305.00	-3189.32	360.89	4.70	1.231e+05	429.87	111.92
90	47	380.00	-1744.76	269.54	-9.53	4.051e+04	359.67	25.59
90	48	0.0	-5429.90	227.86	53.15	3.261e+05	215.29	-220.30
90	48	45.00	-5310.46	229.08	53.15	3.431e+05	868.37	-210.13
90	48	130.00	-4882.47	265.13	25.74	3.765e+05	1107.94	-79.14
90	48	215.00	-4398.07	316.58	18.35	4.099e+05	1019.98	57.94
90	48	305.00	-3189.32	360.89	4.70	1.231e+05	429.87	111.92
90	48	380.00	-1744.76	269.54	-9.53	4.051e+04	359.67	25.59
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.081e+04	124.85	-18.69	4.051e+04	-18.12	-453.21
			-952.63	975.56	106.84	8.686e+05	2332.86	249.33

Macro	Tipo	Angolo 1-Z (gradi)
127	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
127	2	0.0	-6572.08	198.51	61.34	-5.809e+04	210.70	1.89
127	2	45.00	-6436.04	206.56	61.34	-6.103e+04	1172.39	23.35
127	2	130.00	-5901.23	209.39	32.24	-6.082e+04	1603.59	19.77
127	2	215.00	-5200.44	214.31	25.53	-6.938e+04	1500.39	-114.60
127	2	305.00	-4379.86	346.52	21.44	8.935e+04	981.47	66.68
127	2	380.00	-2574.95	500.75	-1.21	4.776e+04	418.41	104.80
127	8	0.0	-6246.48	404.43	58.67	-5.988e+04	199.62	5.95
127	8	45.00	-6100.11	409.71	58.67	-6.190e+04	1097.85	25.79
127	8	130.00	-5551.13	405.61	31.09	-6.049e+04	1471.50	22.27
127	8	215.00	-4844.13	406.36	24.60	-6.563e+04	1329.95	-99.56
127	8	305.00	-4054.56	521.04	21.10	8.149e+04	858.11	61.99
127	8	380.00	-2365.29	620.20	1.65	4.361e+04	400.55	94.05
127	28	0.0	-6131.56	183.09	58.07	-3.025e+04	199.26	-13.82
127	28	45.00	-6017.68	187.59	58.07	-3.757e+04	1094.62	3.39
127	28	130.00	-5531.07	185.91	30.71	-4.691e+04	1523.78	5.38
127	28	215.00	-4879.96	193.11	25.03	-6.325e+04	1490.25	-117.01
127	28	305.00	-4096.16	322.29	21.22	8.324e+04	892.25	60.54
127	28	380.00	-2404.65	459.56	0.81	4.143e+04	260.59	99.54
127	45	0.0	-2689.83	30.65	27.21	-7.602e+04	89.37	20.37
127	45	45.00	-2593.36	38.44	27.21	-6.729e+04	440.53	33.32
127	45	130.00	-2239.35	39.60	14.78	-4.655e+04	419.03	32.22

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



127	45	215.00	-1829.96	22.34	10.56	-3.166e+04	99.81	-1.39
127	45	305.00	-1423.67	9.92	11.28	2.644e+04	81.85	24.23
127	45	380.00	-741.03	47.93	10.13	1.263e+04	222.52	18.59
127	47	0.0	-3367.72	69.24	30.62	-2.202e+04	107.69	6.46
127	47	45.00	-3306.97	72.45	30.62	-2.503e+04	588.68	17.76
127	47	130.00	-3009.03	70.19	15.93	-2.750e+04	804.07	13.72
127	47	215.00	-2614.66	63.78	12.25	-3.302e+04	735.22	-52.66
127	47	305.00	-2153.56	80.12	10.19	4.581e+04	493.27	30.59
127	47	380.00	-1220.81	134.50	-0.57	2.476e+04	228.22	42.96
127	48	0.0	-3367.72	69.24	30.62	-2.202e+04	107.69	6.46
127	48	45.00	-3306.97	72.45	30.62	-2.503e+04	588.68	17.76
127	48	130.00	-3009.03	70.19	15.93	-2.750e+04	804.07	13.72
127	48	215.00	-2614.66	63.78	12.25	-3.302e+04	735.22	-52.66
127	48	305.00	-2153.56	80.12	10.19	4.581e+04	493.27	30.59
127	48	380.00	-1220.81	134.50	-0.57	2.476e+04	228.22	42.96

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-6572.08	9.92	-1.21	-7.602e+04	81.85	-117.01
	-741.03	620.20	61.34	8.935e+04	1603.59	104.80

Macro	Tipo	Angolo 1-Z (gradi)
92	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
92	2	0.0	-3853.94	-275.71	3.72	-1.994e+05	114.88	-5.77
92	2	45.00	-3855.86	-281.39	3.72	-2.147e+05	-13.20	2.08
92	2	130.00	-3309.74	-351.31	-0.82	-1.943e+05	89.03	-4.48
92	2	215.00	-2597.26	-468.90	0.03	-2.051e+05	954.38	-204.29
92	2	305.00	-1804.79	-695.00	-96.44	-2.676e+05	-1.085e+04	1843.02
92	2	380.00	-752.56	1236.86	-135.48	-8.240e+04	-5.99	-1871.27
92	2	443.46	-48.66	0.25	0.26	74.88	0.0	-121.07
92	13	0.0	-1821.96	551.48	-4.77	-8.413e+04	-17.96	-32.21
92	13	45.00	-1752.50	542.20	-4.77	-6.958e+04	-146.46	27.61
92	13	130.00	-1438.67	490.07	2.01	-4.836e+04	53.33	-2.93
92	13	215.00	-1057.22	400.17	-0.32	-3.888e+04	85.50	-21.03
92	13	305.00	-688.69	308.19	-8.14	-4.129e+04	-989.60	204.50
92	13	380.00	-309.55	256.70	-15.80	-3.136e+04	0.71	-208.99
92	13	443.46	-15.25	68.05	0.09	1351.53	0.0	-26.93
92	47	0.0	-1995.13	-67.80	0.84	-6.544e+04	40.50	-6.26
92	47	45.00	-1997.52	-70.38	0.84	-7.117e+04	-17.12	3.98
92	47	130.00	-1684.78	-99.70	-0.25	-6.048e+04	15.09	-1.14
92	47	215.00	-1285.77	-143.36	-0.10	-6.216e+04	235.15	-54.73
92	47	305.00	-861.64	-200.26	-24.74	-8.406e+04	-2825.12	489.20
92	47	380.00	-395.04	313.79	-36.60	-4.085e+04	-1.43	-501.29
92	47	443.46	-25.91	0.05	0.09	17.85	0.0	-49.01
92	48	0.0	-1995.13	-67.80	0.84	-6.544e+04	40.50	-6.26
92	48	45.00	-1997.52	-70.38	0.84	-7.117e+04	-17.12	3.98
92	48	130.00	-1684.78	-99.70	-0.25	-6.048e+04	15.09	-1.14
92	48	215.00	-1285.77	-143.36	-0.10	-6.216e+04	235.15	-54.73
92	48	305.00	-861.64	-200.26	-24.74	-8.406e+04	-2825.12	489.20
92	48	380.00	-395.04	313.79	-36.60	-4.085e+04	-1.43	-501.29
92	48	443.46	-25.91	0.05	0.09	17.85	0.0	-49.01

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-3855.86	-695.00	-135.48	-2.676e+05	-1.085e+04	-1871.27
	-15.25	1236.86	3.72	1351.53	954.38	1843.02

Macro	Tipo	Angolo 1-Z (gradi)
63	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
63	2	0.0	-8946.26	723.80	-42.04	1.829e+05	34.34	-199.46



63	2	45.00	-8938.60	692.53	-42.04	1.488e+05	-1570.77	170.91
63	2	130.00	-8822.35	690.63	-66.10	-3.892e+05	-7152.99	1420.07
63	2	215.00	-8907.30	670.89	-52.87	-5.022e+05	-1.143e+04	-549.93
63	2	225.00	-9035.54	641.94	-41.25	-4.812e+05	-1.205e+04	-899.10
63	2	231.00	-8954.31	644.40	-77.32	-5.201e+05	-1.225e+04	-1056.60
63	2	237.00	-8999.79	640.18	-125.01	-5.470e+05	-1.258e+04	-1347.86
63	2	243.00	-9168.04	662.39	-172.88	-6.132e+05	-1.339e+04	-1723.24
63	2	244.76	-9246.00	671.06	-185.45	-6.393e+05	-1.370e+04	-1836.87
63	2	249.00	-9331.40	685.02	-229.78	-6.773e+05	-1.472e+04	-2047.46
63	2	255.00	-9205.55	757.86	-290.81	-6.546e+05	-1.639e+04	-2325.61
63	2	305.00	-9269.18	601.68	-290.81	-6.829e+05	-3.187e+04	-3682.83
63	2	380.00	-7431.96	436.40	-660.95	2.425e+05	2.015e+04	213.92
63	2	395.05	-7104.32	-164.69	-349.99	2.560e+05	1.445e+04	90.93
63	2	400.00	-7242.29	-175.42	-338.16	2.547e+05	1.261e+04	-61.77
63	2	410.11	-6824.03	-532.74	-310.60	3.102e+05	9138.76	-355.22
63	2	425.16	-6214.26	-877.99	-246.67	3.928e+05	4953.93	-529.55
63	2	440.21	-5555.79	-1350.87	-177.91	4.630e+05	1851.23	-691.88
63	2	443.46	-5484.77	-1337.10	-165.17	4.936e+05	1328.14	-674.00
63	2	455.27	-5125.65	-2105.34	-117.47	4.666e+05	-159.72	-841.67
63	2	460.00	-3824.11	-2663.72	-100.21	3.318e+05	-649.91	-851.44
63	2	474.76	-1484.05	-1086.14	14.45	-3.991e+04	-593.29	-418.22
63	2	494.25	-1118.91	-626.33	13.98	-1.603e+04	-62.93	26.61
63	2	497.18	-1032.03	-463.11	7.87	-1.740e+04	-32.37	56.02
63	2	502.84	-1002.78	-460.05	2.14	-3930.55	-56.52	22.85
63	2	518.61	-610.02	-303.57	-0.77	3395.14	-23.10	-56.75
63	2	534.39	-141.05	-69.04	0.21	1989.98	15.87	-19.82
63	18	0.0	-8239.93	722.12	-150.59	1.939e+05	82.64	-441.93
63	18	45.00	-8212.88	676.53	-150.59	1.545e+05	-7510.60	-0.93
63	18	130.00	-8134.64	678.63	-117.37	-3.489e+05	-1.703e+04	1548.89
63	18	215.00	-8237.17	659.89	42.09	-4.651e+05	-1.347e+04	-1349.45
63	18	225.00	-8370.82	629.53	54.29	-4.428e+05	-1.304e+04	-1828.19
63	18	231.00	-8277.54	631.26	24.52	-4.789e+05	-1.279e+04	-1992.92
63	18	237.00	-8321.57	628.31	6.80	-5.052e+05	-1.257e+04	-2251.01
63	18	243.00	-8488.78	653.53	-8.43	-5.710e+05	-1.250e+04	-2549.07
63	18	244.76	-8566.22	663.03	-11.44	-5.970e+05	-1.250e+04	-2636.22
63	18	249.00	-8655.58	676.06	-32.65	-6.356e+05	-1.268e+04	-2790.10
63	18	255.00	-8536.20	746.86	-62.18	-6.140e+05	-1.298e+04	-3016.69
63	18	305.00	-8596.60	588.86	-62.18	-6.407e+05	-1.633e+04	-3728.47
63	18	380.00	-6904.26	470.53	-736.32	2.265e+05	1.634e+04	222.29
63	18	395.05	-6573.91	-57.18	-349.53	2.342e+05	1.207e+04	-266.31
63	18	400.00	-6688.31	-62.78	-327.03	2.372e+05	9768.34	-93.66
63	18	410.11	-6305.91	-392.08	-278.94	2.876e+05	6788.27	-342.30
63	18	425.16	-5748.19	-715.73	-216.97	3.626e+05	3104.11	-434.15
63	18	440.21	-5145.41	-1160.97	-155.10	4.265e+05	457.04	-539.70
63	18	443.46	-5081.57	-1151.00	-144.15	4.549e+05	11.54	-510.80
63	18	455.27	-4729.63	-1870.50	-102.59	4.336e+05	-1337.63	-561.88
63	18	460.00	-3535.42	-2392.40	-89.48	3.075e+05	-1821.31	-555.07
63	18	474.76	-1362.22	-954.05	23.24	-3.587e+04	-1347.65	-248.72
63	18	494.25	-1027.29	-538.91	26.00	-1.438e+04	-582.06	44.77
63	18	497.18	-947.17	-393.19	22.24	-1.575e+04	-489.19	76.06
63	18	502.84	-919.86	-397.40	17.01	-3568.88	-343.35	84.17
63	18	518.61	-560.86	-268.86	6.81	2986.55	-62.04	94.97
63	18	534.39	-132.09	-62.39	0.69	1750.56	-19.53	14.13
63	45	0.0	-2232.10	601.01	-5.55	8.718e+04	15.32	-18.94
63	45	45.00	-2251.10	587.28	-5.55	6.597e+04	-193.50	23.25
63	45	130.00	-2125.93	618.32	-8.29	-7.314e+04	-914.08	181.39
63	45	215.00	-2045.50	595.77	-6.87	-8.784e+04	-1468.32	-77.87
63	45	225.00	-2222.21	589.25	-5.61	-5.523e+04	-1543.58	-122.55
63	45	231.00	-2124.81	575.61	-10.43	-8.061e+04	-1574.33	-144.43
63	45	237.00	-2129.91	575.12	-16.22	-8.783e+04	-1614.92	-178.59
63	45	243.00	-2150.28	579.30	-22.63	-1.056e+05	-1712.39	-227.67
63	45	244.76	-2164.12	579.89	-24.25	-1.122e+05	-1750.57	-242.25
63	45	249.00	-2158.73	582.41	-29.88	-1.195e+05	-1880.27	-270.42
63	45	255.00	-2109.87	588.13	-37.87	-1.154e+05	-2094.06	-307.38
63	45	305.00	-2138.05	572.22	-37.87	-1.391e+05	-4041.50	-494.57
63	45	380.00	-1971.22	667.26	-83.95	6.207e+04	2628.47	15.47
63	45	395.05	-1724.78	445.46	-45.81	6.796e+04	1918.90	4.37
63	45	400.00	-1743.78	434.93	-44.24	7.162e+04	1676.96	-8.86
63	45	410.11	-1629.25	315.86	-40.34	7.462e+04	1221.64	-45.43
63	45	425.16	-1461.02	198.47	-31.88	7.934e+04	668.25	-66.62
63	45	440.21	-1280.96	71.60	-22.63	8.176e+04	261.05	-85.29
63	45	443.46	-1248.78	76.67	-20.94	8.387e+04	192.84	-81.22
63	45	455.27	-1143.76	-112.68	-14.58	7.443e+04	11.86	-97.10
63	45	460.00	-908.31	-218.77	-12.33	5.330e+04	-49.38	-96.07
63	45	474.76	-432.62	-93.30	1.49	-6485.38	-52.65	-36.27

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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63	45	494.25	-335.25	-43.35	1.40	-1256.09	9.62	21.43
63	45	497.18	-306.61	-19.22	0.56	-2269.29	13.82	26.44
63	45	502.84	-292.13	-48.76	-0.21	544.99	8.25	18.60
63	45	518.61	-174.55	-51.59	-0.49	1444.40	2.33	2.53
63	45	534.39	-37.28	-16.31	-0.07	591.06	0.99	-1.78
63	47	0.0	-3546.25	193.10	-11.05	7.382e+04	9.92	-53.17
63	47	45.00	-3538.45	182.04	-11.05	6.311e+04	-410.38	45.30
63	47	130.00	-3406.23	181.84	-17.13	-1.394e+05	-1858.91	373.16
63	47	215.00	-3329.04	175.96	-13.73	-1.732e+05	-2963.75	-142.67
63	47	225.00	-3364.29	169.01	-10.84	-1.673e+05	-3121.93	-234.15
63	47	231.00	-3340.41	167.62	-20.31	-1.862e+05	-3174.46	-277.17
63	47	237.00	-3339.18	166.63	-32.84	-1.965e+05	-3258.20	-353.42
63	47	243.00	-3378.27	172.67	-45.58	-2.192e+05	-3465.08	-452.30
63	47	244.76	-3399.41	173.93	-48.92	-2.280e+05	-3544.92	-482.07
63	47	249.00	-3412.49	180.73	-60.68	-2.393e+05	-3810.89	-537.27
63	47	255.00	-3350.22	202.28	-77.13	-2.294e+05	-4249.23	-610.88
63	47	305.00	-3369.35	154.46	-77.13	-2.364e+05	-8304.40	-964.62
63	47	380.00	-2982.16	107.16	-165.90	8.816e+04	5163.59	59.21
63	47	395.05	-2715.87	-99.56	-89.79	8.900e+04	3705.24	30.68
63	47	400.00	-2776.20	-82.12	-86.77	8.115e+04	3240.29	-8.27
63	47	410.11	-2594.03	-206.99	-79.68	9.549e+04	2343.08	-83.63
63	47	425.16	-2328.63	-296.05	-63.17	1.168e+05	1258.24	-130.25
63	47	440.21	-2046.96	-424.01	-45.36	1.336e+05	455.17	-171.42
63	47	443.46	-2001.91	-403.73	-42.09	1.407e+05	319.67	-166.24
63	47	455.27	-1876.58	-636.99	-29.66	1.254e+05	-51.34	-209.53
63	47	460.00	-1460.53	-786.60	-25.20	8.863e+04	-175.48	-212.73
63	47	474.76	-691.25	-367.79	3.89	-1.648e+04	-167.30	-109.17
63	47	494.25	-530.57	-220.63	3.81	-5578.20	-25.04	3.08
63	47	497.18	-487.36	-161.71	2.20	-6576.15	-15.20	12.43
63	47	502.84	-466.41	-176.05	0.64	-1258.73	-20.03	1.56
63	47	518.61	-282.11	-127.39	-0.09	1533.08	-9.74	-17.88
63	47	534.39	-67.52	-31.99	0.16	858.48	3.91	-6.84
63	48	0.0	-3546.25	193.10	-11.05	7.382e+04	9.92	-53.17
63	48	45.00	-3538.45	182.04	-11.05	6.311e+04	-410.38	45.30
63	48	130.00	-3406.23	181.84	-17.13	-1.394e+05	-1858.91	373.16
63	48	215.00	-3329.04	175.96	-13.73	-1.732e+05	-2963.75	-142.67
63	48	225.00	-3364.29	169.01	-10.84	-1.673e+05	-3121.93	-234.15
63	48	231.00	-3340.41	167.62	-20.31	-1.862e+05	-3174.46	-277.17
63	48	237.00	-3339.18	166.63	-32.84	-1.965e+05	-3258.20	-353.42
63	48	243.00	-3378.27	172.67	-45.58	-2.192e+05	-3465.08	-452.30
63	48	244.76	-3399.41	173.93	-48.92	-2.280e+05	-3544.92	-482.07
63	48	249.00	-3412.49	180.73	-60.68	-2.393e+05	-3810.89	-537.27
63	48	255.00	-3350.22	202.28	-77.13	-2.294e+05	-4249.23	-610.88
63	48	305.00	-3369.35	154.46	-77.13	-2.364e+05	-8304.40	-964.62
63	48	380.00	-2982.16	107.16	-165.90	8.816e+04	5163.59	59.21
63	48	395.05	-2715.87	-99.56	-89.79	8.900e+04	3705.24	30.68
63	48	400.00	-2776.20	-82.12	-86.77	8.115e+04	3240.29	-8.27
63	48	410.11	-2594.03	-206.99	-79.68	9.549e+04	2343.08	-83.63
63	48	425.16	-2328.63	-296.05	-63.17	1.168e+05	1258.24	-130.25
63	48	440.21	-2046.96	-424.01	-45.36	1.336e+05	455.17	-171.42
63	48	443.46	-2001.91	-403.73	-42.09	1.407e+05	319.67	-166.24
63	48	455.27	-1876.58	-636.99	-29.66	1.254e+05	-51.34	-209.53
63	48	460.00	-1460.53	-786.60	-25.20	8.863e+04	-175.48	-212.73
63	48	474.76	-691.25	-367.79	3.89	-1.648e+04	-167.30	-109.17
63	48	494.25	-530.57	-220.63	3.81	-5578.20	-25.04	3.08
63	48	497.18	-487.36	-161.71	2.20	-6576.15	-15.20	12.43
63	48	502.84	-466.41	-176.05	0.64	-1258.73	-20.03	1.56
63	48	518.61	-282.11	-127.39	-0.09	1533.08	-9.74	-17.88
63	48	534.39	-67.52	-31.99	0.16	858.48	3.91	-6.84
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-9331.40	-2663.72	-736.32	-6.829e+05	-3.187e+04	-3728.47
			-37.28	757.86	54.29	4.936e+05	2.015e+04	1548.89

Macro	Tipo	Angolo 1-Z (gradi)
66	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
66	2	0.0	-6524.49	142.54	1.06	-1.855e+05	0.0	5.56

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66	2	45.00	-6524.49	142.54	1.06	-1.919e+05	41.96	-1.66
66	2	130.00	-6535.01	150.92	-0.61	-1.991e+05	-7.07	7.06
66	2	215.00	-6467.84	147.69	0.22	-2.263e+05	14.90	9.17
66	2	225.00	-6544.35	150.06	0.24	-2.633e+05	17.43	9.73
66	2	305.00	-6573.86	143.50	0.09	-3.188e+05	30.05	9.90
66	2	380.00	-6795.55	166.21	0.37	2.751e+05	49.00	0.20
66	2	395.86	-6007.09	-220.71	-0.19	1.248e+05	50.20	3.36
66	2	400.00	-6235.69	-41.97	-0.12	1.451e+05	49.31	2.08
66	2	411.73	-5695.65	-269.54	3.60e-03	1.488e+05	51.52	-0.97
66	2	427.59	-4905.08	-273.22	0.06	1.305e+05	56.97	-2.44
66	2	443.46	-4063.28	-300.73	0.15	9.875e+04	62.15	-5.58
66	2	459.32	-3236.64	-393.06	0.18	7.032e+04	70.97	-6.08
66	2	460.00	-2411.90	-360.00	0.13	-7.484e+04	71.80	-7.28
66	2	475.10	-2511.33	-488.78	-0.98	-2.929e+04	43.17	-8.54
66	2	490.87	-2064.33	-332.59	-1.19	-1517.28	19.24	-8.33
66	2	497.18	-1791.94	-190.18	-0.32	-5163.39	-0.08	-22.45
66	2	502.84	-1618.13	-344.73	0.18	2533.02	1.94	1.06
66	2	518.61	-941.57	-335.25	0.13	6517.16	3.40	8.15
66	2	534.39	-213.57	-118.69	-0.01	2964.07	6.80	15.32
66	14	0.0	-2981.01	192.95	267.60	-3.893e+04	-81.67	-2352.27
66	14	45.00	-2981.01	192.95	267.60	-4.760e+04	1.695e+04	-1.064e+04
66	14	130.00	-3113.36	220.86	310.71	-5.845e+04	4.211e+04	-6614.34
66	14	215.00	-3192.90	219.61	78.54	-8.034e+04	4.661e+04	634.48
66	14	225.00	-3237.56	221.05	58.73	-1.033e+05	4.745e+04	919.90
66	14	305.00	-3277.87	218.27	-134.24	-1.482e+05	3.282e+04	6495.29
66	14	380.00	-3322.60	231.13	-375.68	1.183e+05	1.325e+04	-718.04
66	14	395.86	-2873.95	17.18	-218.49	5.603e+04	6608.69	-5862.12
66	14	400.00	-2988.20	97.37	-206.61	6.550e+04	5248.18	-6423.18
66	14	411.73	-2734.87	-23.17	-167.43	6.748e+04	1833.84	-8213.08
66	14	427.59	-2363.21	-45.45	-68.41	5.922e+04	-870.90	-9368.35
66	14	443.46	-1967.61	-71.34	21.68	4.495e+04	-1312.08	-9100.06
66	14	459.32	-1578.30	-127.54	52.63	3.242e+04	-91.76	-6791.34
66	14	460.00	-1185.41	-127.54	74.81	-3.631e+04	226.88	-5869.95
66	14	475.10	-1179.95	-190.70	23.48	-1.338e+04	530.63	-2376.51
66	14	490.87	-973.60	-125.69	-3.92	-212.33	639.31	-482.26
66	14	497.18	-845.06	-67.31	-13.91	-2002.86	653.92	-2.12
66	14	502.84	-759.57	-141.11	-17.72	1107.55	433.27	178.28
66	14	518.61	-443.90	-147.19	-8.48	2905.60	83.76	117.84
66	14	534.39	-102.98	-52.87	-1.43	1334.21	5.85	21.17
66	35	0.0	-2536.34	-328.40	0.25	-1.126e+05	0.0	-13.88
66	35	45.00	-2536.34	-328.40	0.25	-9.784e+04	-2.19	-12.13
66	35	130.00	-2429.38	-396.04	-0.32	-8.975e+04	-27.05	3.33
66	35	215.00	-2266.87	-320.07	0.09	-1.033e+05	-14.83	9.51
66	35	225.00	-2293.29	-316.36	0.14	-1.124e+05	-13.09	10.27
66	35	305.00	-2127.61	-262.13	0.09	-1.189e+05	-0.05	12.52
66	35	380.00	-2010.17	-188.57	0.17	7.503e+04	21.06	15.11
66	35	395.86	-1644.37	-239.54	0.09	2.733e+04	25.02	11.13
66	35	400.00	-1717.50	-179.04	0.07	2.822e+04	25.71	10.90
66	35	411.73	-1567.85	-220.74	0.04	3.108e+04	26.54	10.36
66	35	427.59	-1347.97	-193.82	0.04	2.799e+04	27.00	9.53
66	35	443.46	-1117.83	-184.53	0.04	2.170e+04	27.47	9.40
66	35	459.32	-894.04	-198.77	0.03	1.680e+04	28.54	10.00
66	35	460.00	-668.83	-160.30	-0.02	-2.238e+04	28.68	9.46
66	35	475.10	-669.14	-176.09	-0.32	-9358.19	19.52	8.15
66	35	490.87	-551.21	-117.08	-0.38	-1376.31	11.77	7.67
66	35	497.18	-479.37	-71.84	-0.14	-2155.97	5.49	3.17
66	35	502.84	-435.50	-112.97	-0.02	272.81	5.41	9.81
66	35	518.61	-254.26	-104.39	-6.77e-03	1709.35	2.87	8.70
66	35	534.39	-55.83	-34.27	-8.16e-03	841.35	3.09	7.84
66	44	0.0	-4621.23	586.76	1.03	-8.338e+04	0.0	25.20
66	44	45.00	-4621.23	586.76	1.03	-1.098e+05	59.82	17.24
66	44	130.00	-4598.49	735.65	-0.28	-1.169e+05	35.21	3.43
66	44	215.00	-4481.47	654.08	0.12	-1.182e+05	42.21	-4.68
66	44	225.00	-4531.46	650.01	0.08	-1.481e+05	42.56	-5.27
66	44	305.00	-4571.84	605.61	-0.09	-2.121e+05	32.05	-7.80
66	44	380.00	-4722.60	545.32	0.15	1.792e+05	25.26	-15.25
66	44	395.86	-4082.16	214.59	-0.25	8.979e+04	23.08	-7.90
66	44	400.00	-4233.16	319.83	-0.16	1.072e+05	21.54	-9.16
66	44	411.73	-3872.83	128.10	-0.02	1.078e+05	23.11	-11.38
66	44	427.59	-3345.11	69.93	0.06	9.342e+04	28.36	-11.64
66	44	443.46	-2782.03	14.76	0.14	7.048e+04	33.73	-13.87
66	44	459.32	-2224.62	-84.37	0.18	4.936e+04	41.86	-15.02
66	44	460.00	-1660.72	-119.97	0.20	-4.938e+04	42.55	-15.59
66	44	475.10	-1668.44	-236.82	-0.62	-1.800e+04	23.15	-15.21
66	44	490.87	-1376.02	-159.72	-0.75	-15.55	6.78	-13.97

RELAZIONE DI RESISTENZA AL FUOCO



66	44	497.18	-1194.67	-78.41	-0.14	-2722.76	-5.41	-22.50
66	44	502.84	-1077.62	-187.58	0.22	2017.44	-3.24	-6.73
66	44	518.61	-628.94	-199.14	0.18	4370.99	0.35	0.87
66	44	534.39	-144.04	-73.29	0.02	1969.58	4.54	9.35
66	47	0.0	-3361.82	61.72	0.59	-9.482e+04	0.0	1.17
66	47	45.00	-3361.82	61.72	0.59	-9.758e+04	24.49	-0.07
66	47	130.00	-3314.15	65.12	-0.30	-9.905e+04	-0.18	3.03
66	47	215.00	-3204.39	63.55	0.11	-1.115e+05	9.91	2.94
66	47	225.00	-3242.55	64.74	0.12	-1.299e+05	11.15	3.08
66	47	305.00	-3181.06	61.53	0.03	-1.570e+05	16.69	2.32
66	47	380.00	-3200.77	72.92	0.19	1.256e+05	24.84	-0.65
66	47	395.86	-2742.39	-101.29	-0.08	5.682e+04	26.32	2.77
66	47	400.00	-2854.80	-18.75	-0.05	6.374e+04	26.20	2.48
66	47	411.73	-2608.19	-123.22	3.62e-03	6.590e+04	26.79	1.71
66	47	427.59	-2246.98	-125.89	0.03	5.805e+04	28.70	1.80
66	47	443.46	-1862.98	-142.30	0.06	4.425e+04	30.51	1.17
66	47	459.32	-1486.12	-191.15	0.07	3.201e+04	33.79	1.46
66	47	460.00	-1107.98	-179.31	0.03	-3.419e+04	34.13	0.90
66	47	475.10	-1128.09	-236.43	-0.45	-1.370e+04	20.88	-0.44
66	47	490.87	-928.45	-163.58	-0.54	-920.13	9.64	-0.70
66	47	497.18	-806.10	-97.58	-0.14	-2490.97	0.71	-7.21
66	47	502.84	-728.31	-166.08	0.08	1054.06	1.55	3.44
66	47	518.61	-423.80	-158.47	0.07	2992.13	1.66	5.64
66	47	534.39	-94.23	-54.84	7.82e-03	1391.47	3.62	8.25
66	48	0.0	-3361.82	61.72	0.59	-9.482e+04	0.0	1.17
66	48	45.00	-3361.82	61.72	0.59	-9.758e+04	24.49	-0.07
66	48	130.00	-3314.15	65.12	-0.30	-9.905e+04	-0.18	3.03
66	48	215.00	-3204.39	63.55	0.11	-1.115e+05	9.91	2.94
66	48	225.00	-3242.55	64.74	0.12	-1.299e+05	11.15	3.08
66	48	305.00	-3181.06	61.53	0.03	-1.570e+05	16.69	2.32
66	48	380.00	-3200.77	72.92	0.19	1.256e+05	24.84	-0.65
66	48	395.86	-2742.39	-101.29	-0.08	5.682e+04	26.32	2.77
66	48	400.00	-2854.80	-18.75	-0.05	6.374e+04	26.20	2.48
66	48	411.73	-2608.19	-123.22	3.62e-03	6.590e+04	26.79	1.71
66	48	427.59	-2246.98	-125.89	0.03	5.805e+04	28.70	1.80
66	48	443.46	-1862.98	-142.30	0.06	4.425e+04	30.51	1.17
66	48	459.32	-1486.12	-191.15	0.07	3.201e+04	33.79	1.46
66	48	460.00	-1107.98	-179.31	0.03	-3.419e+04	34.13	0.90
66	48	475.10	-1128.09	-236.43	-0.45	-1.370e+04	20.88	-0.44
66	48	490.87	-928.45	-163.58	-0.54	-920.13	9.64	-0.70
66	48	497.18	-806.10	-97.58	-0.14	-2490.97	0.71	-7.21
66	48	502.84	-728.31	-166.08	0.08	1054.06	1.55	3.44
66	48	518.61	-423.80	-158.47	0.07	2992.13	1.66	5.64
66	48	534.39	-94.23	-54.84	7.82e-03	1391.47	3.62	8.25
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6795.55	-488.78	-375.68	-3.188e+05	-1312.08	-1.064e+04
			-55.83	735.65	310.71	2.751e+05	4.745e+04	6495.29

Macro	Tipo	Angolo 1-Z (gradi)
57	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
57	2	0.0	-6655.73	23.90	-0.26	3.051e+05	12.39	-9.45
57	2	45.00	-6663.09	24.81	-0.26	3.060e+05	-8.32	-23.45
57	2	130.00	-6333.80	40.26	0.21	-1.586e+05	-37.01	-14.65
57	2	215.00	-6022.42	105.80	0.68	-1.769e+05	-119.53	4.63
57	2	225.00	-5530.10	280.82	-3.19	1.917e+05	-102.10	29.67
57	2	305.00	-6696.38	-158.98	-5.55	3.808e+05	-504.74	19.08
57	2	380.00	-6633.00	-252.03	1.18	1.881e+05	-368.06	6.03
57	2	386.67	-6678.14	-202.96	5.88	1.473e+05	-321.28	-6.80
57	2	393.33	-6535.39	-271.41	5.52	2.016e+05	-279.85	-11.95
57	2	398.99	-5550.51	-519.60	5.95	4.688e+04	-257.59	-15.68
57	2	400.00	-5260.40	-445.20	6.26	1.559e+05	-259.56	-14.25
57	2	417.97	-4669.02	-474.84	6.06	1.927e+05	-142.62	-13.32
57	2	436.96	-3814.74	-407.51	5.60	1.596e+05	-10.56	0.35
57	2	455.94	-2962.16	-355.38	5.28	1.246e+05	105.46	-3.12
57	2	460.00	-2612.77	-333.75	5.19	8.670e+04	133.41	1.27
57	2	474.54	-2007.06	-416.58	-2.16	2130.67	72.40	12.11

RELAZIONE DI RESISTENZA AL FUOCO



57	2	493.13	-1527.94	-299.11	-2.06	1.200e+04	-9.55	0.64
57	2	497.18	-1297.18	-201.53	-0.78	-1158.41	-21.09	-6.50
57	2	511.46	-1024.37	-348.90	0.10	1.636e+04	-2.84	9.82
57	2	525.73	-450.17	-248.84	-0.27	8861.31	1.33	5.83
57	35	0.0	-2571.32	-598.83	-0.18	5.154e+04	2.48	-9.90
57	35	45.00	-2538.28	-598.42	-0.18	6.990e+04	-6.87	-12.69
57	35	130.00	-2253.61	-598.08	0.53	-7.292e+04	21.39	-7.15
57	35	215.00	-1977.45	-561.31	1.06	-6.266e+04	54.55	-2.66
57	35	225.00	-1663.32	-369.42	-1.30	5.271e+04	50.36	6.14
57	35	305.00	-1934.14	-482.64	-1.97	1.230e+05	-63.38	1.89
57	35	380.00	-1748.46	-424.04	-0.57	4.932e+04	-69.70	-1.96
57	35	386.67	-1612.38	-353.17	0.22	2.892e+04	-69.26	-6.57
57	35	393.33	-1576.85	-378.97	0.12	4.328e+04	-68.06	-9.86
57	35	398.99	-1362.87	-453.35	0.72	-450.96	-71.63	-13.20
57	35	400.00	-1359.84	-447.19	0.85	5994.76	-75.92	-12.15
57	35	417.97	-1209.82	-428.18	0.82	2.375e+04	-54.90	-14.98
57	35	436.96	-994.42	-382.29	0.84	2.392e+04	-30.52	-17.14
57	35	455.94	-781.28	-346.00	0.85	2.330e+04	-6.73	-21.16
57	35	460.00	-693.88	-332.02	0.85	1.549e+04	-1.05	-21.31
57	35	474.54	-490.22	-254.31	0.21	-3690.80	-14.95	-13.81
57	35	493.13	-379.85	-188.71	0.13	644.33	-21.54	-12.71
57	35	497.18	-326.20	-146.76	0.39	-1989.16	-23.08	-15.05
57	35	511.46	-259.11	-138.22	0.46	3133.38	-12.13	-3.15
57	35	525.73	-117.45	-77.60	0.14	1982.59	-4.42	2.29
57	46	0.0	-3151.51	875.68	0.30	2.270e+05	9.41	4.90
57	46	45.00	-3207.54	875.54	0.30	2.022e+05	11.31	-6.96
57	46	130.00	-3123.94	889.29	-0.27	-6.156e+04	-22.65	-5.74
57	46	215.00	-3025.76	891.67	-0.56	-9.066e+04	-96.81	2.09
57	46	225.00	-2775.96	825.60	-0.83	1.011e+05	-87.67	12.76
57	46	305.00	-3354.84	615.35	-1.54	1.872e+05	-225.97	9.32
57	46	380.00	-3237.69	480.19	1.01	9.164e+04	-146.46	2.48
57	46	386.67	-3181.03	450.35	3.55	7.357e+04	-113.97	-1.69
57	46	393.33	-3096.39	397.91	3.44	1.003e+05	-89.36	-2.53
57	46	398.99	-2619.29	194.18	3.26	3.102e+04	-68.61	1.07
57	46	400.00	-2469.94	210.34	3.37	8.658e+04	-62.74	2.25
57	46	417.97	-2203.68	144.79	3.27	9.999e+04	-11.52	7.74
57	46	436.96	-1811.30	111.14	3.01	8.041e+04	46.18	20.64
57	46	455.94	-1414.42	75.19	2.82	5.985e+04	95.59	25.34
57	46	460.00	-1251.97	68.20	2.77	4.146e+04	107.51	28.65
57	46	474.54	-908.50	-94.42	-2.05	2505.85	86.26	23.22
57	46	493.13	-693.66	-82.45	-1.94	6149.39	35.16	13.79
57	46	497.18	-588.58	-52.18	-1.38	-40.40	27.05	9.58
57	46	511.46	-464.65	-145.28	-0.81	7427.43	22.06	8.24
57	46	525.73	-206.47	-111.55	-0.52	4006.20	9.36	-3.78
57	47	0.0	-3428.54	-37.32	0.13	1.474e+05	6.13	-5.71
57	47	45.00	-3430.98	-37.14	0.13	1.497e+05	4.65	-13.59
57	47	130.00	-3213.54	-30.08	0.38	-8.489e+04	18.86	-9.01
57	47	215.00	-3004.85	-4.99	0.50	-9.229e+04	14.60	-2.32
57	47	225.00	-2698.45	89.20	-1.22	9.366e+04	14.73	11.31
57	47	305.00	-3152.57	-69.54	-2.00	2.175e+05	-119.53	6.22
57	47	380.00	-3059.51	-105.37	-0.02	1.086e+05	-99.00	0.85
57	47	386.67	-2977.39	-96.68	1.68	9.319e+04	-85.47	-5.23
57	47	393.33	-2916.56	-135.07	1.49	1.147e+05	-74.66	-8.41
57	47	398.99	-2507.20	-268.46	1.63	2.841e+04	-69.02	-10.12
57	47	400.00	-2478.04	-240.21	1.73	4.708e+04	-69.83	-9.54
57	47	417.97	-2207.27	-265.09	1.69	6.912e+04	-36.69	-9.93
57	47	436.96	-1813.70	-255.82	1.63	5.871e+04	1.83	-6.89
57	47	455.94	-1420.46	-254.13	1.58	4.737e+04	37.32	-8.13
57	47	460.00	-1260.43	-248.03	1.56	3.114e+04	45.93	-7.00
57	47	474.54	-912.09	-280.76	-0.74	-3799.57	24.41	-4.17
57	47	493.13	-701.60	-220.22	-0.74	3119.39	-3.91	-7.14
57	47	497.18	-600.10	-169.62	-0.27	-2077.56	-8.67	-10.49
57	47	511.46	-468.16	-200.26	0.05	6179.59	-1.76	-0.79
57	47	525.73	-210.80	-124.89	-0.08	3761.56	0.22	-0.05
57	48	0.0	-3428.54	-37.32	0.13	1.474e+05	6.13	-5.71
57	48	45.00	-3430.98	-37.14	0.13	1.497e+05	4.65	-13.59
57	48	130.00	-3213.54	-30.08	0.38	-8.489e+04	18.86	-9.01
57	48	215.00	-3004.85	-4.99	0.50	-9.229e+04	14.60	-2.32
57	48	225.00	-2698.45	89.20	-1.22	9.366e+04	14.73	11.31
57	48	305.00	-3152.57	-69.54	-2.00	2.175e+05	-119.53	6.22
57	48	380.00	-3059.51	-105.37	-0.02	1.086e+05	-99.00	0.85
57	48	386.67	-2977.39	-96.68	1.68	9.319e+04	-85.47	-5.23
57	48	393.33	-2916.56	-135.07	1.49	1.147e+05	-74.66	-8.41
57	48	398.99	-2507.20	-268.46	1.63	2.841e+04	-69.02	-10.12
57	48	400.00	-2478.04	-240.21	1.73	4.708e+04	-69.83	-9.54

RELAZIONE DI RESISTENZA AL FUOCO



57	48	417.97	-2207.27	-265.09	1.69	6.912e+04	-36.69	-9.93
57	48	436.96	-1813.70	-255.82	1.63	5.871e+04	1.83	-6.89
57	48	455.94	-1420.46	-254.13	1.58	4.737e+04	37.32	-8.13
57	48	460.00	-1260.43	-248.03	1.56	3.114e+04	45.93	-7.00
57	48	474.54	-912.09	-280.76	-0.74	-3799.57	24.41	-4.17
57	48	493.13	-701.60	-220.22	-0.74	3119.39	-3.91	-7.14
57	48	497.18	-600.10	-169.62	-0.27	-2077.56	-8.67	-10.49
57	48	511.46	-468.16	-200.26	0.05	6179.59	-1.76	-0.79
57	48	525.73	-210.80	-124.89	-0.08	3761.56	0.22	-0.05
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6696.38	-598.83	-5.55	-1.769e+05	-504.74	-23.45
			-117.45	891.67	6.26	3.808e+05	133.41	29.67

Macro	Tipo	Angolo 1-Z (gradi)
43	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
43	2	0.0	-7574.79	397.99	-0.87	-3.003e+05	0.0	5.35
43	2	45.00	-7574.79	397.99	-0.87	-3.182e+05	-49.81	2.47
43	2	130.00	-7299.17	397.43	0.23	-3.327e+05	-41.27	2.33
43	2	215.00	-7173.15	391.95	0.16	-3.724e+05	-25.40	22.06
43	2	225.00	-7045.06	197.82	0.26	4.409e+04	-22.14	15.55
43	2	305.00	-8506.04	-234.17	0.09	2.754e+05	-14.51	12.07
43	2	380.00	-9009.24	-334.84	-2.26	1.146e+05	-154.64	21.64
43	2	399.83	-7546.95	-840.54	0.94	1.887e+04	-305.78	-7.90
43	2	400.00	-7533.96	-826.58	0.97	2.760e+04	-308.07	-8.44
43	2	420.00	-6683.17	-814.12	1.02	1.307e+05	-236.80	-37.12
43	2	439.49	-5478.67	-704.56	1.02	1.142e+05	-166.37	-63.55
43	2	459.32	-4232.92	-596.03	1.05	8.816e+04	-95.96	-90.70
43	2	460.00	-3143.89	-427.67	1.10	-1.029e+05	-94.18	-89.90
43	2	475.10	-3063.87	-573.24	2.03	-3.380e+04	-53.86	-37.83
43	2	490.87	-2462.76	-415.67	1.82	-4161.07	-17.35	-25.14
43	2	497.18	-2060.76	-268.07	1.25	-1.551e+04	-4.40	-16.83
43	2	511.46	-1570.14	-430.22	0.59	1.356e+04	5.24	-9.99
43	2	525.73	-731.44	-273.01	0.12	9948.63	9.87	3.38
43	18	0.0	-7047.27	430.51	-0.73	-2.403e+05	0.0	4.61
43	18	45.00	-7047.27	430.51	-0.73	-2.597e+05	-39.76	0.94
43	18	130.00	-6771.51	429.36	0.18	-2.845e+05	-37.98	-1.22
43	18	215.00	-6633.28	424.34	0.15	-3.315e+05	-26.26	18.03
43	18	225.00	-6492.85	239.28	0.25	4.815e+04	-22.54	12.12
43	18	305.00	-7831.59	-124.51	-6.36e-03	2.581e+05	-20.24	5.85
43	18	380.00	-8247.88	-185.72	-2.47	1.042e+05	-170.49	12.30
43	18	399.83	-6851.02	-568.08	1.23	2.962e+04	-322.13	-13.41
43	18	400.00	-6837.08	-553.99	1.26	3.824e+04	-324.48	-13.90
43	18	420.00	-6072.50	-544.68	1.30	1.284e+05	-246.68	-43.63
43	18	439.49	-4983.80	-459.06	1.31	1.099e+05	-170.35	-71.78
43	18	459.32	-3854.75	-376.87	1.37	8.272e+04	-93.53	-99.76
43	18	460.00	-2861.03	-254.31	1.41	-9.161e+04	-91.46	-98.56
43	18	475.10	-2779.05	-413.30	1.91	-2.827e+04	-52.95	-44.20
43	18	490.87	-2232.45	-290.55	1.74	-2516.24	-20.55	-32.01
43	18	497.18	-1865.78	-173.64	1.28	-1.345e+04	-8.36	-23.39
43	18	511.46	-1423.92	-355.25	0.67	1.257e+04	3.60	-13.66
43	18	525.73	-662.87	-236.73	0.16	8913.09	9.41	1.85
43	35	0.0	-2563.48	-386.05	-0.41	-1.664e+05	0.0	-1.47
43	35	45.00	-2563.48	-386.05	-0.41	-1.490e+05	-26.44	-1.74
43	35	130.00	-2382.76	-382.95	0.08	-1.245e+05	-19.96	1.96
43	35	215.00	-2222.86	-385.40	0.04	-1.182e+05	-13.40	9.30
43	35	225.00	-2003.63	-417.86	0.05	-1796.23	-12.34	7.38
43	35	305.00	-2394.21	-542.85	0.24	1.086e+05	-2.20	5.09
43	35	380.00	-2391.56	-555.24	-0.08	5.182e+04	-11.42	6.03
43	35	399.83	-1958.53	-567.95	-0.05	-3.010e+04	-26.43	2.21
43	35	400.00	-1960.42	-564.44	-0.05	-2.942e+04	-26.62	2.08
43	35	420.00	-1739.14	-514.33	-0.03	7770.85	-22.27	-0.64
43	35	439.49	-1429.17	-442.86	-0.05	1.355e+04	-17.49	-1.95
43	35	459.32	-1108.04	-388.00	-0.06	1.569e+04	-13.54	-3.83
43	35	460.00	-828.61	-297.91	-0.10	-3.265e+04	-13.52	-3.67
43	35	475.10	-774.11	-257.03	0.23	-1.280e+04	-6.75	0.84
43	35	490.87	-624.79	-188.58	0.21	-3713.97	-1.35	1.36

RELAZIONE DI RESISTENZA AL FUOCO



43	35	497.18	-524.96	-130.89	0.10	-5913.75	0.55	2.13
43	35	511.46	-403.41	-145.48	0.03	2587.55	0.23	0.03
43	35	525.73	-189.80	-82.00	5.96e-03	2288.93	0.72	0.44
43	44	0.0	-5404.86	982.22	-0.38	-8.437e+04	0.0	6.95
43	44	45.00	-5404.86	982.22	-0.38	-1.285e+05	-16.15	3.23
43	44	130.00	-5161.40	977.33	0.14	-1.804e+05	-18.18	-2.74
43	44	215.00	-5015.23	970.70	0.12	-2.325e+05	-7.97	11.34
43	44	225.00	-4916.18	835.87	0.24	6.955e+04	-5.77	6.98
43	44	305.00	-5788.91	590.90	-0.10	2.197e+05	-4.01	5.83
43	44	380.00	-6023.26	486.11	-1.62	9.312e+04	-111.11	10.59
43	44	399.83	-4987.64	-91.30	0.69	2.715e+04	-218.64	-6.32
43	44	400.00	-4980.98	-84.15	0.72	3.243e+04	-220.31	-6.66
43	44	420.00	-4433.05	-154.71	0.75	9.483e+04	-171.61	-28.52
43	44	439.49	-3645.52	-171.16	0.78	7.814e+04	-123.61	-49.57
43	44	459.32	-2827.60	-170.34	0.84	5.600e+04	-74.96	-70.74
43	44	460.00	-2102.84	-117.38	0.91	-7.084e+04	-73.72	-70.05
43	44	475.10	-1982.70	-327.50	1.47	-2.182e+04	-45.62	-34.59
43	44	490.87	-1597.52	-256.85	1.35	-2992.96	-20.24	-25.36
43	44	497.18	-1337.88	-174.13	1.00	-1.045e+04	-10.77	-18.97
43	44	511.46	-1022.97	-287.30	0.55	8480.36	-0.74	-11.50
43	44	525.73	-483.40	-179.83	0.17	6605.99	5.37	0.05
43	47	0.0	-3808.28	123.67	-0.41	-1.395e+05	0.0	2.44
43	47	45.00	-3808.28	123.67	-0.41	-1.451e+05	-23.10	0.83
43	47	130.00	-3621.18	123.87	0.10	-1.501e+05	-20.48	0.24
43	47	215.00	-3492.39	117.78	0.05	-1.673e+05	-14.25	9.58
43	47	225.00	-3348.08	55.49	0.11	3.309e+04	-12.63	6.66
43	47	305.00	-3906.63	-92.13	0.13	1.863e+05	-2.60	4.62
43	47	380.00	-4078.97	-111.42	-0.63	8.878e+04	-45.69	5.74
43	47	399.83	-3468.27	-387.23	0.21	-4781.65	-86.89	1.09
43	47	400.00	-3469.49	-381.16	0.22	-2911.92	-87.49	0.95
43	47	420.00	-3082.22	-385.57	0.24	4.791e+04	-71.81	-7.09
43	47	439.49	-2530.31	-355.77	0.23	4.319e+04	-56.35	-14.35
43	47	459.32	-1959.42	-323.78	0.23	3.418e+04	-41.37	-21.80
43	47	460.00	-1460.74	-255.33	0.21	-5.287e+04	-41.11	-21.35
43	47	475.10	-1375.49	-324.71	0.73	-1.834e+04	-24.85	-8.73
43	47	490.87	-1109.14	-250.41	0.67	-3989.78	-10.73	-5.87
43	47	497.18	-930.43	-177.25	0.46	-8572.03	-5.56	-3.39
43	47	511.46	-710.28	-229.59	0.24	5121.70	-1.83	-3.56
43	47	525.73	-336.14	-135.94	0.09	4252.69	1.18	-0.44
43	48	0.0	-3808.28	123.67	-0.41	-1.395e+05	0.0	2.44
43	48	45.00	-3808.28	123.67	-0.41	-1.451e+05	-23.10	0.83
43	48	130.00	-3621.18	123.87	0.10	-1.501e+05	-20.48	0.24
43	48	215.00	-3492.39	117.78	0.05	-1.673e+05	-14.25	9.58
43	48	225.00	-3348.08	55.49	0.11	3.309e+04	-12.63	6.66
43	48	305.00	-3906.63	-92.13	0.13	1.863e+05	-2.60	4.62
43	48	380.00	-4078.97	-111.42	-0.63	8.878e+04	-45.69	5.74
43	48	399.83	-3468.27	-387.23	0.21	-4781.65	-86.89	1.09
43	48	400.00	-3469.49	-381.16	0.22	-2911.92	-87.49	0.95
43	48	420.00	-3082.22	-385.57	0.24	4.791e+04	-71.81	-7.09
43	48	439.49	-2530.31	-355.77	0.23	4.319e+04	-56.35	-14.35
43	48	459.32	-1959.42	-323.78	0.23	3.418e+04	-41.37	-21.80
43	48	460.00	-1460.74	-255.33	0.21	-5.287e+04	-41.11	-21.35
43	48	475.10	-1375.49	-324.71	0.73	-1.834e+04	-24.85	-8.73
43	48	490.87	-1109.14	-250.41	0.67	-3989.78	-10.73	-5.87
43	48	497.18	-930.43	-177.25	0.46	-8572.03	-5.56	-3.39
43	48	511.46	-710.28	-229.59	0.24	5121.70	-1.83	-3.56
43	48	525.73	-336.14	-135.94	0.09	4252.69	1.18	-0.44

M_S

N memb.

V memb.

V orto

M memb.

M orto

T

-9009.24

-840.54

-2.47

-3.724e+05

-324.48

-99.76

-189.80

982.22

2.03

2.754e+05

9.87

22.06

Macro	Tipo	Angolo 1-Z (gradi)
25	Setto	0.0

M_S

Cmb

Z

N memb.

V memb.

V orto

M memb.

M orto

T

cm

daN

daN

daN

daN cm

daN cm

daN cm

25

2

0.0

-5884.56

-73.55

0.43

-2.758e+05

0.0

40.04

25

2

45.00

-5884.56

-73.55

0.43

-2.791e+05

17.02

25.77

25

2

130.00

-5792.16

-72.92

0.76

-2.641e+05

213.71

-64.35

RELAZIONE DI RESISTENZA AL FUOCO



25	2	216.11	-5275.65	-64.84	-2.35	-2.587e+05	-176.33	-109.78
25	2	217.22	-5298.26	-66.35	-2.14	-2.671e+05	-192.94	-106.13
25	2	218.33	-5315.07	-69.59	-1.82	-2.798e+05	-206.31	-101.52
25	2	219.44	-5287.07	-72.51	-1.39	-2.823e+05	-217.99	-94.36
25	2	220.56	-5207.17	-74.60	-0.91	-2.720e+05	-228.02	-84.31
25	2	221.67	-5073.68	-75.77	-0.43	-2.476e+05	-235.81	-71.50
25	2	222.78	-4883.33	-76.16	0.07	-2.089e+05	-240.96	-56.07
25	2	223.89	-4622.38	-76.28	0.55	-1.596e+05	-244.15	-36.78
25	2	225.00	-4181.04	-72.67	0.75	-1.436e+05	-245.11	-12.50
25	2	305.00	-4239.58	-73.03	0.75	-1.646e+05	6.77	104.46
25	2	380.00	-3022.88	-72.34	0.22	-9.277e+04	27.44	80.17
25	2	460.00	-1755.82	-71.21	-0.28	-5.930e+04	172.93	74.30
25	2	497.18	-854.95	-71.30	-1.47	-5.691e+04	0.0	58.31
25	13	0.0	-2727.58	1142.63	0.27	-2.036e+05	-1.63e-05	9.75
25	13	45.00	-2727.58	1142.63	0.27	-1.523e+05	28.58	13.75
25	13	130.00	-2546.76	889.93	0.25	-1.083e+05	82.75	3.66
25	13	216.11	-2198.62	745.98	-0.73	-8.010e+04	-40.20	-14.46
25	13	217.22	-2172.42	745.00	-0.69	-7.313e+04	-44.98	-13.56
25	13	218.33	-2144.16	743.57	-0.62	-6.892e+04	-48.92	-12.40
25	13	219.44	-2107.21	742.48	-0.51	-6.495e+04	-52.42	-10.55
25	13	220.56	-2060.09	742.02	-0.38	-6.068e+04	-55.41	-7.91
25	13	221.67	-2002.18	742.38	-0.25	-5.596e+04	-57.70	-4.51
25	13	222.78	-1931.51	743.04	-0.13	-5.110e+04	-59.30	-0.44
25	13	223.89	-1838.72	733.20	0.02	-4.921e+04	-60.62	4.25
25	13	225.00	-1667.09	585.74	0.15	-7.427e+04	-60.82	10.32
25	13	305.00	-1681.93	587.81	0.15	-2.913e+04	-4.67	29.33
25	13	380.00	-1149.09	267.37	0.17	-1.286e+04	21.57	10.81
25	13	460.00	-632.31	-42.10	-0.10	-1.406e+04	51.38	7.59
25	13	497.18	-262.51	-154.29	-0.41	-1.674e+04	0.0	4.99
25	14	0.0	-3457.35	1146.13	0.31	-2.689e+05	-2.52e-05	12.62
25	14	45.00	-3457.35	1146.13	0.31	-2.173e+05	37.40	10.39
25	14	130.00	-3310.01	893.51	0.26	-1.736e+05	106.06	-19.75
25	14	216.11	-2942.52	751.26	-1.34	-1.459e+05	-115.64	-38.09
25	14	217.22	-2931.38	749.88	-1.21	-1.433e+05	-123.78	-36.02
25	14	218.33	-2917.10	747.74	-1.05	-1.435e+05	-130.61	-33.64
25	14	219.44	-2885.07	746.03	-0.82	-1.411e+05	-136.70	-29.94
25	14	220.56	-2832.40	745.14	-0.57	-1.351e+05	-142.04	-24.73
25	14	221.67	-2758.14	745.28	-0.32	-1.251e+05	-146.31	-18.07
25	14	222.78	-2659.65	745.88	-0.07	-1.112e+05	-149.45	-10.07
25	14	223.89	-2524.65	736.13	0.21	-9.747e+04	-151.99	-0.60
25	14	225.00	-2275.18	589.48	0.42	-1.163e+05	-153.04	11.40
25	14	305.00	-2301.99	591.39	0.42	-7.406e+04	-21.69	60.67
25	14	380.00	-1601.86	271.18	0.31	-3.954e+04	18.66	33.61
25	14	460.00	-906.64	-37.92	-0.10	-2.956e+04	85.36	29.56
25	14	497.18	-413.42	-150.23	-0.66	-2.887e+04	0.0	21.43
25	38	0.0	-5476.87	-70.29	0.58	-2.397e+05	-1.06e-04	11.29
25	38	45.00	-5476.87	-70.29	0.58	-2.428e+05	127.91	-6.95
25	38	130.00	-5391.41	-69.64	-0.09	-2.374e+05	145.39	-76.31
25	38	216.11	-4924.65	-61.65	-3.08	-2.443e+05	-354.51	-82.41
25	38	217.22	-4940.24	-63.31	-2.76	-2.507e+05	-369.99	-77.28
25	38	218.33	-4950.41	-66.58	-2.39	-2.612e+05	-383.49	-72.09
25	38	219.44	-4919.76	-69.48	-1.89	-2.629e+05	-395.57	-64.06
25	38	220.56	-4841.94	-71.53	-1.33	-2.531e+05	-406.58	-52.81
25	38	221.67	-4715.43	-72.64	-0.79	-2.310e+05	-415.96	-38.45
25	38	222.78	-4537.36	-72.93	-0.25	-1.962e+05	-423.66	-21.30
25	38	223.89	-4295.74	-72.86	0.37	-1.519e+05	-430.96	-1.48
25	38	225.00	-3893.65	-69.30	0.88	-1.368e+05	-435.46	24.61
25	38	305.00	-3946.76	-69.75	0.88	-1.562e+05	-148.45	123.34
25	38	380.00	-2806.02	-68.85	0.82	-8.783e+04	-42.00	53.63
25	38	460.00	-1624.40	-67.50	0.17	-5.519e+04	128.22	67.92
25	38	497.18	-783.26	-67.35	-0.97	-5.145e+04	0.0	55.05
25	47	0.0	-3329.73	-58.52	0.26	-1.080e+05	1.26e-05	25.23
25	47	45.00	-3329.73	-58.52	0.26	-1.106e+05	-0.03	23.93
25	47	130.00	-3204.21	-58.17	0.54	-9.900e+04	122.93	-12.86
25	47	216.11	-2839.59	-54.71	-0.85	-9.432e+04	-20.43	-46.00
25	47	217.22	-2832.42	-55.22	-0.82	-9.373e+04	-27.74	-45.03
25	47	218.33	-2822.54	-56.57	-0.71	-9.623e+04	-33.38	-43.42
25	47	219.44	-2792.95	-57.82	-0.56	-9.554e+04	-38.19	-40.84
25	47	220.56	-2740.53	-58.72	-0.39	-9.040e+04	-42.14	-37.20
25	47	221.67	-2664.50	-59.25	-0.22	-8.033e+04	-44.99	-32.54
25	47	222.78	-2563.43	-59.48	-0.04	-6.521e+04	-46.55	-26.91
25	47	223.89	-2431.54	-59.68	0.13	-4.663e+04	-47.12	-19.70
25	47	225.00	-2219.31	-58.22	0.17	-4.421e+04	-46.60	-10.51
25	47	305.00	-2244.81	-58.24	0.17	-5.544e+04	29.04	31.13
25	47	380.00	-1582.23	-58.08	-0.03	-2.916e+04	23.97	25.48

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



25	47	460.00	-899.69	-57.78	-0.20	-2.083e+04	76.88	22.45
25	47	497.18	-408.75	-57.68	-0.70	-2.391e+04	0.0	18.80
25	48	0.0	-3329.73	-58.52	0.26	-1.080e+05	1.26e-05	25.23
25	48	45.00	-3329.73	-58.52	0.26	-1.106e+05	-0.03	23.93
25	48	130.00	-3204.21	-58.17	0.54	-9.900e+04	122.93	-12.86
25	48	216.11	-2839.59	-54.71	-0.85	-9.432e+04	-20.43	-46.00
25	48	217.22	-2832.42	-55.22	-0.82	-9.373e+04	-27.74	-45.03
25	48	218.33	-2822.54	-56.57	-0.71	-9.623e+04	-33.38	-43.42
25	48	219.44	-2792.95	-57.82	-0.56	-9.554e+04	-38.19	-40.84
25	48	220.56	-2740.53	-58.72	-0.39	-9.040e+04	-42.14	-37.20
25	48	221.67	-2664.50	-59.25	-0.22	-8.033e+04	-44.99	-32.54
25	48	222.78	-2563.43	-59.48	-0.04	-6.521e+04	-46.55	-26.91
25	48	223.89	-2431.54	-59.68	0.13	-4.663e+04	-47.12	-19.70
25	48	225.00	-2219.31	-58.22	0.17	-4.421e+04	-46.60	-10.51
25	48	305.00	-2244.81	-58.24	0.17	-5.544e+04	29.04	31.13
25	48	380.00	-1582.23	-58.08	-0.03	-2.916e+04	23.97	25.48
25	48	460.00	-899.69	-57.78	-0.20	-2.083e+04	76.88	22.45
25	48	497.18	-408.75	-57.68	-0.70	-2.391e+04	0.0	18.80
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-5884.56	-154.29	-3.08	-2.823e+05	-435.46	-109.78
			-262.51	1146.13	0.88	-1.286e+04	213.71	123.34

Macro	Tipo	Angolo 1-Z (gradi)
27	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
27	2	0.0	-5033.11	-503.01	0.12	3.537e+04	-1.06e-06	12.37
27	2	45.00	-5033.11	-503.01	0.12	1.270e+04	-82.28	24.12
27	2	130.00	-5144.19	-481.75	3.56	-3.217e+04	327.14	74.53
27	2	215.00	-4788.91	-555.99	-2.83	-4.434e+04	87.99	148.23
27	2	225.00	-4405.47	-541.93	2.10	-3.663e+05	49.76	64.61
27	2	244.76	-3571.53	-105.81	1.29	-1.769e+05	126.09	5.74
27	2	305.00	-4006.79	-301.01	1.29	-2.709e+05	270.81	-158.11
27	2	380.00	-2708.09	1497.73	-1.81	-1.096e+05	15.86	-153.74
27	2	460.00	-1564.22	1190.75	0.02	-1.840e+04	181.91	-61.33
27	2	497.18	-623.73	1149.46	-3.21	2.393e+04	6.03e-04	-60.57
27	2	497.18	-623.73	1149.46	-3.21	2.393e+04	6.03e-04	-60.57
27	35	0.0	-1901.62	-31.53	-1.72	3.881e+04	0.0	8.01
27	35	45.00	-1901.62	-31.53	-1.72	3.738e+04	-181.93	-12.83
27	35	130.00	-1873.17	-28.93	2.60	3.196e+04	116.80	-29.80
27	35	215.00	-1673.24	-39.55	0.09	2.121e+04	170.36	37.82
27	35	225.00	-1431.64	-36.04	0.24	-7.718e+04	176.65	41.28
27	35	244.76	-1270.58	28.78	-0.12	-3.925e+04	178.85	29.26
27	35	305.00	-1350.31	-4.43	-0.12	-5.204e+04	148.03	1.69
27	35	380.00	-911.87	269.49	-0.67	-2.501e+04	49.58	-32.04
27	35	460.00	-503.29	232.08	-0.24	-5207.66	55.03	-10.88
27	35	497.18	-181.71	227.09	-0.92	4595.94	1.81e-04	-10.73
27	35	497.18	-181.71	227.09	-0.92	4595.94	1.81e-04	-10.73
27	38	0.0	-4685.75	-472.49	1.65	2.674e+04	0.0	7.63
27	38	45.00	-4685.75	-472.49	1.65	5449.64	74.23	33.25
27	38	130.00	-4784.83	-453.07	1.84	-3.474e+04	280.72	96.94
27	38	215.00	-4466.09	-521.24	-3.77	-3.545e+04	-87.14	134.06
27	38	225.00	-4096.00	-507.17	2.14	-3.348e+05	-143.95	34.98
27	38	244.76	-3324.98	-111.57	1.64	-1.600e+05	-61.36	-18.35
27	38	305.00	-3721.27	-285.72	1.64	-2.463e+05	140.91	-174.72
27	38	380.00	-2511.78	1343.35	-1.32	-1.003e+05	-46.55	-136.68
27	38	460.00	-1447.56	1058.29	0.40	-1.818e+04	142.63	-62.09
27	38	497.18	-573.42	1020.10	-2.50	2.069e+04	4.74e-04	-62.10
27	38	497.18	-573.42	1020.10	-2.50	2.069e+04	4.74e-04	-62.10
27	47	0.0	-2425.70	-111.66	-0.17	4.178e+04	0.0	10.09
27	47	45.00	-2425.70	-111.66	-0.17	3.674e+04	-43.24	3.30
27	47	130.00	-2434.37	-106.49	1.76	2.673e+04	151.33	4.78
27	47	215.00	-2231.77	-126.85	-1.36	2.387e+04	38.05	54.31
27	47	225.00	-1964.50	-120.59	0.68	-1.165e+05	19.22	27.51
27	47	244.76	-1689.87	-3.16	0.46	-5.299e+04	42.56	9.32
27	47	305.00	-1826.38	-58.76	0.46	-7.867e+04	91.17	-42.20
27	47	380.00	-1246.64	434.36	-0.54	-3.402e+04	15.78	-42.15
27	47	460.00	-712.71	357.87	-0.03	-5123.51	69.03	-18.38

RELAZIONE DI RESISTENZA AL FUOCO



27	47	497.18	-280.51	347.91	-1.21	9258.34	1.98e-04	-19.86
27	47	497.18	-280.51	347.91	-1.21	9258.34	1.98e-04	-19.86
27	48	0.0	-2425.70	-111.66	-0.17	4.178e+04	0.0	10.09
27	48	45.00	-2425.70	-111.66	-0.17	3.674e+04	-43.24	3.30
27	48	130.00	-2434.37	-106.49	1.76	2.673e+04	151.33	4.78
27	48	215.00	-2231.77	-126.85	-1.36	2.387e+04	38.05	54.31
27	48	225.00	-1964.50	-120.59	0.68	-1.165e+05	19.22	27.51
27	48	244.76	-1689.87	-3.16	0.46	-5.299e+04	42.56	9.32
27	48	305.00	-1826.38	-58.76	0.46	-7.867e+04	91.17	-42.20
27	48	380.00	-1246.64	434.36	-0.54	-3.402e+04	15.78	-42.15
27	48	460.00	-712.71	357.87	-0.03	-5123.51	69.03	-18.38
27	48	497.18	-280.51	347.91	-1.21	9258.34	1.98e-04	-19.86
27	48	497.18	-280.51	347.91	-1.21	9258.34	1.98e-04	-19.86
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-5144.19	-555.99	-3.77	-3.663e+05	-181.93	-174.72
			-181.71	1497.73	3.56	4.178e+04	327.14	148.23

Macro	Tipo	Angolo 1-Z (gradi)
68	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
68	13	0.0	-1147.24	512.35	-0.06	-1.076e+04	0.01	6.58
68	13	45.00	-1199.58	519.81	-0.06	2536.71	-11.78	4.22
68	13	130.00	-1097.23	492.77	0.09	1.434e+04	0.46	-1.73
68	13	215.00	-946.49	401.62	0.51	2.088e+04	45.53	14.69
68	13	305.00	-784.88	324.11	0.09	2.632e+04	-6.59	34.95
68	13	400.00	-614.25	226.59	1.26	2.781e+04	85.35	23.29
68	13	443.46	-168.96	95.14	2.17	4867.39	219.24	-55.36
68	13	460.00	-164.28	46.95	-1.78	5393.02	173.25	-55.72
68	13	540.00	-75.67	42.09	-3.15	3418.35	-6.72	-62.78
68	38	0.0	-3752.35	-98.09	-1.32	1.382e+05	0.07	-6.06
68	38	45.00	-3729.48	-88.26	-1.32	1.384e+05	59.05	45.73
68	38	130.00	-3282.61	-19.93	-0.84	1.236e+05	-100.89	41.66
68	38	215.00	-2809.85	120.65	1.05	1.200e+05	63.28	-86.71
68	38	305.00	-2286.34	270.60	-0.32	1.096e+05	111.33	-75.69
68	38	400.00	-1753.12	322.71	-1.11	1.060e+05	-79.46	-34.64
68	38	443.46	-441.45	135.27	1.65	1.188e+04	-16.46	-64.07
68	38	460.00	-357.57	167.21	0.55	1.635e+04	-137.39	-37.45
68	38	540.00	-210.05	150.54	1.48	1.143e+04	-7.56	79.61
68	45	0.0	-1754.03	-59.43	0.65	4.656e+04	-0.01	5.09
68	45	45.00	-1744.38	-58.22	0.65	4.575e+04	290.42	138.40
68	45	130.00	-1495.49	-38.97	-0.45	4.009e+04	-35.31	218.58
68	45	215.00	-1258.22	1.15	1.27	4.597e+04	48.62	-90.35
68	45	305.00	-921.11	38.40	1.91	3.315e+04	441.46	-225.78
68	45	400.00	-575.36	39.24	-3.78	2.128e+04	35.21	-130.14
68	45	443.46	-136.02	59.87	-0.43	3077.09	-160.58	-191.74
68	45	460.00	-112.37	72.92	-0.41	4301.43	-359.23	-112.26
68	45	540.00	-68.04	61.81	3.11	3472.73	-13.78	61.02
68	47	0.0	-1780.28	-13.19	-1.08	5.356e+04	0.02	7.94
68	47	45.00	-1773.17	-10.42	-1.08	5.438e+04	-79.12	-10.11
68	47	130.00	-1557.46	16.71	-0.15	4.941e+04	-35.29	-52.30
68	47	215.00	-1306.00	69.11	0.31	4.602e+04	45.92	-16.73
68	47	305.00	-1063.11	122.47	-0.59	4.541e+04	-54.86	42.67
68	47	400.00	-813.95	138.07	0.76	4.768e+04	-21.21	30.36
68	47	443.46	-254.18	101.00	1.33	5342.84	84.57	7.65
68	47	460.00	-220.72	109.95	0.04	7184.37	79.25	-1.79
68	47	540.00	-121.06	84.00	-0.91	6153.52	-0.90	5.26
68	48	0.0	-1780.28	-13.19	-1.08	5.356e+04	0.02	7.94
68	48	45.00	-1773.17	-10.42	-1.08	5.438e+04	-79.12	-10.11
68	48	130.00	-1557.46	16.71	-0.15	4.941e+04	-35.29	-52.30
68	48	215.00	-1306.00	69.11	0.31	4.602e+04	45.92	-16.73
68	48	305.00	-1063.11	122.47	-0.59	4.541e+04	-54.86	42.67
68	48	400.00	-813.95	138.07	0.76	4.768e+04	-21.21	30.36
68	48	443.46	-254.18	101.00	1.33	5342.84	84.57	7.65
68	48	460.00	-220.72	109.95	0.04	7184.37	79.25	-1.79
68	48	540.00	-121.06	84.00	-0.91	6153.52	-0.90	5.26
M_S			N memb.	V memb.	V orto	M memb.	M orto	T

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



-3752.35 -98.09 -3.78 -1.076e+04 -359.23 -225.78
 -68.04 519.81 3.11 1.384e+05 441.46 218.58

Macro	Tipo	Angolo 1-Z (gradi)
120	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
120	2	0.0	-3790.03	-79.48	-3.19	-3.626e+05	-0.58	28.79
120	2	45.00	-3774.00	-213.82	-3.19	-3.579e+05	-171.23	32.81
120	2	130.00	-3327.17	-256.05	-3.74	-2.819e+05	-497.91	-27.68
120	2	215.00	-2952.91	-417.33	3.79	-2.375e+05	-164.53	-47.86
120	2	225.00	-2551.48	-608.14	1.02	-7.202e+04	108.45	182.41
120	2	305.00	-2272.19	-993.48	1.02	-7.824e+04	163.55	6.83
120	2	400.00	-1526.23	-1089.16	0.47	-8.035e+04	139.50	7.70
120	18	0.0	-3564.51	-178.79	-2.92	-3.491e+05	-0.53	20.91
120	18	45.00	-3553.88	-300.17	-2.92	-3.421e+05	-159.26	23.66
120	18	130.00	-3134.50	-329.88	-3.61	-2.645e+05	-476.13	-32.36
120	18	215.00	-2777.65	-485.13	3.66	-2.167e+05	-161.21	-47.66
120	18	225.00	-2390.92	-679.40	1.10	-6.113e+04	56.88	163.56
120	18	305.00	-2145.10	-1053.60	1.10	-6.868e+04	136.70	17.95
120	18	400.00	-1440.05	-1142.13	0.32	-7.254e+04	59.72	38.30
120	38	0.0	-3641.24	-87.93	-1.49	-3.509e+05	-0.47	-21.80
120	38	45.00	-3623.93	-219.60	-1.49	-3.456e+05	-100.34	-24.23
120	38	130.00	-3175.94	-262.18	-3.18	-2.688e+05	-396.22	-53.59
120	38	215.00	-2779.66	-413.62	2.38	-2.184e+05	-180.85	-60.38
120	38	225.00	-2380.77	-597.59	1.77	-6.083e+04	106.24	201.67
120	38	305.00	-2133.15	-961.76	1.77	-6.951e+04	240.20	68.33
120	38	400.00	-1435.49	-1051.92	0.14	-7.459e+04	171.20	61.66
120	45	0.0	-1257.08	-42.17	1.97	-8.341e+04	0.09	-74.78
120	45	45.00	-1251.31	-73.60	1.97	-8.123e+04	74.85	-84.12
120	45	130.00	-1087.73	-87.86	0.10	-6.064e+04	58.06	-48.07
120	45	215.00	-912.35	-120.83	-1.15	-4.434e+04	-35.20	-26.66
120	45	225.00	-734.04	-163.40	1.05	1875.61	48.82	67.40
120	45	305.00	-696.70	-243.65	1.05	-1814.46	149.60	94.76
120	45	400.00	-472.86	-261.54	-0.38	-9249.17	91.50	85.32
120	47	0.0	-1547.65	-29.45	-0.90	-1.080e+05	-0.09	10.29
120	47	45.00	-1543.79	-66.93	-0.90	-1.067e+05	-45.48	11.79
120	47	130.00	-1378.28	-81.35	-0.87	-8.671e+04	-117.08	-4.92
120	47	215.00	-1237.48	-133.73	1.24	-7.990e+04	-8.57	-6.10
120	47	225.00	-1052.45	-190.69	-0.21	-1.853e+04	56.07	37.18
120	47	305.00	-956.90	-312.44	-0.21	-1.797e+04	23.08	-8.70
120	47	400.00	-643.62	-341.89	0.19	-2.033e+04	41.93	-5.62
120	48	0.0	-1547.65	-29.45	-0.90	-1.080e+05	-0.09	10.29
120	48	45.00	-1543.79	-66.93	-0.90	-1.067e+05	-45.48	11.79
120	48	130.00	-1378.28	-81.35	-0.87	-8.671e+04	-117.08	-4.92
120	48	215.00	-1237.48	-133.73	1.24	-7.990e+04	-8.57	-6.10
120	48	225.00	-1052.45	-190.69	-0.21	-1.853e+04	56.07	37.18
120	48	305.00	-956.90	-312.44	-0.21	-1.797e+04	23.08	-8.70
120	48	400.00	-643.62	-341.89	0.19	-2.033e+04	41.93	-5.62

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-3790.03	-1142.13	-3.74	-3.626e+05	-497.91	-84.12
	-472.86	-29.45	3.79	1875.61	240.20	201.67

Macro	Tipo	Angolo 1-Z (gradi)
67	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
67	2	0.0	-7744.56	107.45	-64.07	2.364e+05	-221.74	63.84
67	2	45.00	-7660.91	254.55	-64.07	2.648e+05	-1168.32	73.74
67	2	130.00	-6602.10	331.83	-34.25	2.020e+05	-1424.62	-6.06
67	2	215.00	-5401.34	448.36	-20.31	1.410e+05	-400.66	-157.75

RELAZIONE DI RESISTENZA AL FUOCO



67	2	225.00	-4721.84	582.58	-25.76	5.803e+04	13.32	-153.94
67	2	305.00	-3717.03	818.71	-25.76	3.770e+04	479.06	17.52
67	2	400.00	-1630.52	671.17	-38.40	2.475e+04	194.81	-8.43
67	8	0.0	-7304.46	321.64	-60.56	2.215e+05	-209.53	67.12
67	8	45.00	-7230.87	466.91	-60.56	2.494e+05	-1100.91	77.80
67	8	130.00	-6230.04	545.18	-32.45	1.918e+05	-1339.37	0.65
67	8	215.00	-5082.80	636.42	-19.18	1.347e+05	-355.15	-141.55
67	8	225.00	-4427.14	743.11	-24.50	5.548e+04	-3.01	-134.35
67	8	305.00	-3491.02	926.69	-24.50	3.864e+04	457.91	8.40
67	8	400.00	-1519.69	765.20	-36.83	2.548e+04	138.57	-36.88
67	25	0.0	-2410.62	-279.68	-23.28	2.293e+04	-85.24	-7.01
67	25	45.00	-2364.24	-261.91	-23.28	2.939e+04	-359.70	-2.30
67	25	130.00	-2011.07	-256.64	-12.33	1.909e+04	-330.14	11.86
67	25	215.00	-1606.46	-209.35	-8.83	9501.13	-9.81	6.62
67	25	225.00	-1390.45	-162.58	-10.83	-3680.97	-6.96	13.80
67	25	305.00	-1079.08	-70.12	-10.83	-1.104e+04	155.08	-3.01
67	25	400.00	-430.33	-59.15	-15.67	-8759.20	-35.84	-54.60
67	38	0.0	-7357.87	82.17	-58.85	2.339e+05	-206.85	56.12
67	38	45.00	-7283.45	226.26	-58.85	2.612e+05	-1069.42	71.96
67	38	130.00	-6260.57	302.44	-32.09	1.981e+05	-1385.83	15.20
67	38	215.00	-5077.47	407.45	-20.16	1.323e+05	-581.28	-153.43
67	38	225.00	-4405.21	536.00	-22.03	4.985e+04	-164.94	-178.95
67	38	305.00	-3488.16	750.46	-22.03	3.506e+04	408.34	-13.53
67	38	400.00	-1541.08	599.45	-34.63	2.518e+04	214.07	-12.78
67	47	0.0	-3234.93	19.76	-30.81	4.001e+04	-111.05	-16.00
67	47	45.00	-3185.72	59.42	-30.81	5.031e+04	-505.79	-14.75
67	47	130.00	-2754.47	77.16	-16.03	3.652e+04	-499.55	-7.98
67	47	215.00	-2260.33	109.71	-10.90	2.350e+04	-68.75	-26.20
67	47	225.00	-1992.43	150.19	-13.82	1737.06	55.54	-18.25
67	47	305.00	-1558.44	226.08	-13.82	-1.061e+04	195.10	17.30
67	47	400.00	-648.79	175.21	-19.06	-1.071e+04	78.40	-2.76
67	48	0.0	-3234.93	19.76	-30.81	4.001e+04	-111.05	-16.00
67	48	45.00	-3185.72	59.42	-30.81	5.031e+04	-505.79	-14.75
67	48	130.00	-2754.47	77.16	-16.03	3.652e+04	-499.55	-7.98
67	48	215.00	-2260.33	109.71	-10.90	2.350e+04	-68.75	-26.20
67	48	225.00	-1992.43	150.19	-13.82	1737.06	55.54	-18.25
67	48	305.00	-1558.44	226.08	-13.82	-1.061e+04	195.10	17.30
67	48	400.00	-648.79	175.21	-19.06	-1.071e+04	78.40	-2.76
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-7744.56	-279.68	-64.07	-1.104e+04	-1424.62	-178.95
			-430.33	926.69	-8.83	2.648e+05	479.06	77.80

Macro	Tipo	Angolo 1-Z (gradi)
40	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
40	2	0.0	-6267.15	113.76	-76.25	1.845e+04	-263.08	155.73
40	2	45.00	-6082.91	123.34	-76.25	1.763e+04	-1190.42	163.20
40	2	130.00	-5440.35	156.59	-39.53	1.489e+04	-1288.17	58.90
40	2	215.00	-4565.97	178.31	-28.92	5000.30	-495.54	-9.94
40	2	305.00	-3373.28	228.87	-31.84	-7443.11	167.52	-77.58
40	2	400.00	-1556.77	217.61	-43.08	-9250.34	49.94	-104.50
40	12	0.0	-4474.98	394.66	-55.38	-1506.10	-192.31	85.68
40	12	45.00	-4345.56	406.14	-55.38	-1436.18	-837.58	88.22
40	12	130.00	-3856.13	433.99	-28.98	-2202.24	-853.37	27.83
40	12	215.00	-3199.72	405.08	-21.61	-8063.90	-267.35	-10.93
40	12	305.00	-2344.90	326.93	-23.89	-1.340e+04	215.27	-45.13
40	12	400.00	-1066.24	260.74	-33.80	-1.136e+04	69.62	-51.31
40	25	0.0	-2216.47	-392.10	-27.94	-7052.25	-98.42	25.35
40	25	45.00	-2153.66	-397.57	-27.94	-7253.18	-405.96	24.89
40	25	130.00	-1882.90	-401.54	-14.52	-6756.14	-373.03	3.19
40	25	215.00	-1527.61	-353.79	-10.72	-7019.14	-55.92	-6.32
40	25	305.00	-1091.31	-256.96	-12.04	-9551.45	181.68	-8.43
40	25	400.00	-470.87	-206.75	-18.12	-8571.04	55.71	-3.75
40	47	0.0	-2889.91	30.33	-36.56	-6662.08	-127.73	44.16
40	47	45.00	-2808.48	32.62	-36.56	-6627.38	-542.33	45.35
40	47	130.00	-2485.60	40.95	-19.12	-6549.41	-527.50	15.37
40	47	215.00	-2059.25	43.58	-14.16	-8993.38	-135.92	-2.11

RELAZIONE DI RESISTENZA AL FUOCO



40	47	305.00	-1517.13	44.10	-15.77	-1.196e+04	157.92	-18.11
40	47	400.00	-694.35	40.43	-21.85	-9254.14	37.41	-22.65
40	48	0.0	-2889.91	30.33	-36.56	-6662.08	-127.73	44.16
40	48	45.00	-2808.48	32.62	-36.56	-6627.38	-542.33	45.35
40	48	130.00	-2485.60	40.95	-19.12	-6549.41	-527.50	15.37
40	48	215.00	-2059.25	43.58	-14.16	-8993.38	-135.92	-2.11
40	48	305.00	-1517.13	44.10	-15.77	-1.196e+04	157.92	-18.11
40	48	400.00	-694.35	40.43	-21.85	-9254.14	37.41	-22.65
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6267.15	-401.54	-76.25	-1.340e+04	-1288.17	-104.50
			-470.87	433.99	-10.72	1.845e+04	215.27	163.20

Macro	Tipo	Angolo 1-Z (gradi)
70	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
70	2	0.0	-6320.76	-122.93	-6.99	1.914e+05	-1.54	-116.37
70	2	45.00	-6327.05	-155.13	-6.99	1.857e+05	-370.91	-127.72
70	2	130.00	-5310.69	-255.17	-6.94	1.357e+05	-1032.38	31.66
70	2	215.00	-4375.71	-198.60	6.31	7.472e+04	-370.04	220.40
70	2	225.00	-3591.12	-81.11	4.40	1.404e+05	333.12	-45.73
70	2	305.00	-3043.87	251.74	4.40	1.046e+05	645.55	-81.44
70	2	400.00	-1847.20	514.25	-1.09	4.890e+04	327.43	-52.40
70	8	0.0	-5997.47	6.13	-6.53	1.972e+05	-1.45	-113.31
70	8	45.00	-6005.50	-29.52	-6.53	1.877e+05	-344.63	-125.68
70	8	130.00	-5039.81	-134.82	-6.79	1.309e+05	-985.05	25.22
70	8	215.00	-4142.32	-74.01	5.95	6.572e+04	-360.27	203.78
70	8	225.00	-3393.37	51.12	4.33	1.276e+05	223.94	-39.92
70	8	305.00	-2887.01	365.61	4.33	9.429e+04	573.31	-73.33
70	8	400.00	-1750.49	584.31	-1.14	4.439e+04	186.26	-47.97
70	25	0.0	-1783.46	-274.85	-1.31	-2125.31	-0.44	-7.84
70	25	45.00	-1781.00	-270.20	-1.31	4793.25	-63.69	-7.73
70	25	130.00	-1517.20	-267.69	-1.13	1.389e+04	-154.86	13.71
70	25	215.00	-1273.07	-279.17	1.85	1.723e+04	30.33	15.70
70	25	225.00	-1044.89	-291.68	-0.44	4.106e+04	23.92	-10.35
70	25	305.00	-890.33	-257.83	-0.44	2.944e+04	25.93	-17.61
70	25	400.00	-519.01	-184.61	-0.33	9869.81	-126.22	-15.73
70	38	0.0	-6096.71	-113.77	-5.43	1.876e+05	-1.38	-98.27
70	38	45.00	-6102.42	-144.77	-5.43	1.818e+05	-290.87	-116.44
70	38	130.00	-5093.37	-239.24	-7.30	1.321e+05	-997.06	6.70
70	38	215.00	-4122.00	-178.34	3.24	7.056e+04	-624.27	223.74
70	38	225.00	-3343.13	-63.55	6.61	1.307e+05	66.66	-34.96
70	38	305.00	-2863.20	261.04	6.61	9.907e+04	599.34	-74.98
70	38	400.00	-1755.80	512.30	-0.40	4.902e+04	375.17	-45.11
70	47	0.0	-2347.55	-28.58	-2.05	5.493e+04	-0.61	-14.88
70	47	45.00	-2351.67	-38.72	-2.05	5.270e+04	-102.61	-15.11
70	47	130.00	-2023.04	-70.27	-1.68	3.718e+04	-251.78	17.71
70	47	215.00	-1720.63	-58.07	2.08	1.934e+04	-29.85	46.20
70	47	225.00	-1439.09	-26.12	0.14	4.987e+04	165.11	-18.37
70	47	305.00	-1205.28	56.65	0.14	3.336e+04	149.90	-28.11
70	47	400.00	-713.55	123.60	-0.25	1.225e+04	110.48	-20.70
70	48	0.0	-2347.55	-28.58	-2.05	5.493e+04	-0.61	-14.88
70	48	45.00	-2351.67	-38.72	-2.05	5.270e+04	-102.61	-15.11
70	48	130.00	-2023.04	-70.27	-1.68	3.718e+04	-251.78	17.71
70	48	215.00	-1720.63	-58.07	2.08	1.934e+04	-29.85	46.20
70	48	225.00	-1439.09	-26.12	0.14	4.987e+04	165.11	-18.37
70	48	305.00	-1205.28	56.65	0.14	3.336e+04	149.90	-28.11
70	48	400.00	-713.55	123.60	-0.25	1.225e+04	110.48	-20.70
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6327.05	-291.68	-7.30	-2125.31	-1032.38	-127.72
			-519.01	584.31	6.61	1.972e+05	645.55	223.74

Macro	Tipo	Angolo 1-Z (gradi)
124	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
124	2	0.0	-4528.66	-153.08	-14.24	-1.582e+05	0.19	-12.10
124	2	45.00	-4527.30	-159.20	-14.24	-1.655e+05	-807.90	-17.13
124	2	130.00	-4098.83	-211.54	9.60	-1.478e+05	-156.93	2.37
124	2	215.00	-3522.63	-385.14	15.06	-1.489e+05	437.75	215.88
124	2	216.88	-3210.00	-418.23	90.76	-1.253e+05	259.78	1601.23
124	2	225.00	-3028.33	-455.93	87.21	-1.223e+05	1411.69	1335.70
124	2	305.00	-2951.72	-773.32	87.21	-1.882e+05	1.192e+04	-1877.78
124	2	400.00	-1782.04	224.94	81.89	-6.973e+04	-4.95	1895.58
124	18	0.0	-4162.73	-460.98	-13.17	-1.216e+05	0.18	-10.92
124	18	45.00	-4193.88	-471.77	-13.17	-1.368e+05	-750.25	-14.71
124	18	130.00	-3826.85	-497.60	8.91	-1.291e+05	-144.90	4.28
124	18	215.00	-3298.53	-594.84	14.00	-1.349e+05	426.30	197.50
124	18	216.88	-2968.52	-567.23	82.99	-1.075e+05	268.78	1472.48
124	18	225.00	-2799.61	-588.40	79.42	-1.053e+05	1317.43	1223.93
124	18	305.00	-2757.52	-912.97	79.42	-1.754e+05	1.095e+04	-1729.85
124	18	400.00	-1676.45	119.48	75.55	-6.462e+04	-4.65	1762.30
124	45	0.0	-1665.86	-14.10	5.71	-4.972e+04	-0.03	22.75
124	45	45.00	-1660.88	-13.81	5.71	-5.126e+04	420.73	6.28
124	45	130.00	-1424.25	-27.21	-9.27	-3.728e+04	-382.44	33.08
124	45	215.00	-1168.13	-66.47	-0.18	-2.897e+04	-539.68	51.95
124	45	216.88	-970.58	-76.02	15.24	-1.667e+04	-542.51	152.50
124	45	225.00	-874.92	-81.85	23.64	-1.294e+04	-327.37	163.67
124	45	305.00	-851.39	-128.59	23.64	-2.647e+04	1838.83	-220.33
124	45	400.00	-451.93	85.46	10.42	-1379.21	-1.55	265.39
124	47	0.0	-1951.37	-13.03	-5.14	-3.431e+04	0.04	-11.68
124	47	45.00	-1947.70	-13.44	-5.14	-3.559e+04	-288.45	-14.31
124	47	130.00	-1737.69	-29.64	3.60	-2.930e+04	-22.89	-5.00
124	47	215.00	-1461.00	-82.16	5.16	-2.862e+04	228.89	58.41
124	47	216.88	-1322.67	-92.98	24.62	-2.705e+04	188.49	435.84
124	47	225.00	-1207.86	-103.29	22.53	-2.281e+04	494.90	366.76
124	47	305.00	-1188.83	-181.13	22.53	-3.955e+04	3292.98	-503.56
124	47	400.00	-733.64	80.30	23.17	-8614.19	-1.33	527.51
124	48	0.0	-1951.37	-13.03	-5.14	-3.431e+04	0.04	-11.68
124	48	45.00	-1947.70	-13.44	-5.14	-3.559e+04	-288.45	-14.31
124	48	130.00	-1737.69	-29.64	3.60	-2.930e+04	-22.89	-5.00
124	48	215.00	-1461.00	-82.16	5.16	-2.862e+04	228.89	58.41
124	48	216.88	-1322.67	-92.98	24.62	-2.705e+04	188.49	435.84
124	48	225.00	-1207.86	-103.29	22.53	-2.281e+04	494.90	366.76
124	48	305.00	-1188.83	-181.13	22.53	-3.955e+04	3292.98	-503.56
124	48	400.00	-733.64	80.30	23.17	-8614.19	-1.33	527.51
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-4528.66	-912.97	-14.24	-1.882e+05	-807.90	-1877.78
			-451.93	224.94	90.76	-1379.21	1.192e+04	1895.58

Macro	Tipo	Angolo 1-Z (gradi)
44	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
44	2	0.0	-9533.54	201.56	0.29	-2.666e+05	-1.69e-03	21.48
44	2	45.00	-9613.85	174.14	0.29	-2.908e+05	33.89	18.28
44	2	130.00	-1.067e+04	60.04	0.13	-2.706e+04	46.98	-10.91
44	2	215.00	-1.155e+04	-303.14	-0.77	2.722e+05	-41.89	-25.18
44	2	225.00	-1.184e+04	35.13	0.36	-1.313e+05	-59.44	-8.81
44	2	305.00	-1.165e+04	-99.70	0.36	-1.359e+05	7.00	7.78
44	2	372.36	-1.230e+04	587.19	0.21	9.032e+04	2.46	-13.13
44	2	376.76	-1.075e+04	909.25	0.23	-1.599e+04	2.29	-12.69
44	2	381.15	-8943.26	1802.93	0.26	-7.369e+04	1.59	-11.18
44	2	386.08	-6663.18	2911.31	0.29	-1.032e+05	1.47	-13.74
44	2	391.01	-4080.18	2797.49	0.29	-9.502e+04	1.18	-14.90
44	2	395.94	-1359.39	1475.76	0.11	-5.943e+04	2.96	-19.86
44	12	0.0	-5896.64	120.77	0.16	-1.727e+05	-0.01	4.80
44	12	45.00	-5942.87	105.43	0.16	-1.869e+05	15.68	2.83
44	12	130.00	-6540.52	36.62	0.10	-2.553e+04	24.81	-7.69

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



44	12	215.00	-7023.15	-176.07	-0.24	1.552e+05	-0.67	-13.91
44	12	225.00	-7093.01	12.05	0.14	-9.372e+04	-5.89	-19.83
44	12	305.00	-6982.77	-43.63	0.14	-9.572e+04	8.46	-19.68
44	12	372.36	-7215.81	312.35	0.13	3.027e+04	3.64	-27.74
44	12	376.76	-6261.17	498.35	0.12	-2.001e+04	3.13	-25.88
44	12	381.15	-5176.11	1025.10	0.12	-4.598e+04	2.78	-23.57
44	12	386.08	-3835.18	1679.40	0.12	-5.858e+04	2.14	-19.90
44	12	391.01	-2342.57	1612.51	0.14	-5.228e+04	1.01	-16.80
44	12	395.94	-789.48	842.50	0.07	-3.217e+04	1.67	-14.99
44	45	0.0	-2444.80	495.67	0.06	-1.138e+05	-0.01	1.98
44	45	45.00	-2356.81	500.48	0.06	-1.189e+05	7.42	0.65
44	45	130.00	-2321.17	482.80	4.03e-03	-4.635e+04	8.14	-4.74
44	45	215.00	-2313.88	383.07	-0.21	4.670e+04	-13.95	-5.97
44	45	225.00	-2211.63	447.93	0.10	-3.352e+04	-18.17	-5.32
44	45	305.00	-2093.95	410.32	0.10	-4.104e+04	-2.23	-3.18
44	45	372.36	-1965.80	539.67	0.12	-2.863e+04	0.73	-9.07
44	45	376.76	-1628.57	509.19	0.08	-2.419e+04	0.95	-8.30
44	45	381.15	-1291.12	577.58	0.07	-1.998e+04	0.76	-7.24
44	45	386.08	-914.83	638.42	0.07	-1.617e+04	0.65	-6.67
44	45	391.01	-540.71	495.46	0.07	-1.200e+04	0.50	-5.91
44	45	395.94	-181.53	198.74	0.03	-6717.32	0.75	-5.74
44	47	0.0	-3163.38	38.14	0.08	-1.119e+05	-2.46e-03	5.47
44	47	45.00	-3183.30	31.42	0.08	-1.174e+05	9.34	4.52
44	47	130.00	-3424.21	-2.75	0.03	-4.120e+04	12.66	-3.22
44	47	215.00	-3577.98	-112.91	-0.24	3.646e+04	-13.70	-6.77
44	47	225.00	-3501.05	15.68	0.10	-1.030e+05	-18.78	-2.91
44	47	305.00	-3449.04	-9.23	0.10	-9.986e+04	-0.54	1.23
44	47	372.36	-3410.56	192.51	0.10	-5.746e+04	0.44	-4.89
44	47	376.76	-2826.02	242.79	0.09	-4.678e+04	0.53	-4.92
44	47	381.15	-2237.65	454.87	0.09	-3.617e+04	0.40	-4.41
44	47	386.08	-1590.34	721.06	0.09	-2.791e+04	0.41	-4.89
44	47	391.01	-943.59	656.97	0.10	-1.953e+04	0.27	-4.84
44	47	395.94	-326.81	306.66	0.04	-1.062e+04	0.89	-6.35
44	48	0.0	-3163.38	38.14	0.08	-1.119e+05	-2.46e-03	5.47
44	48	45.00	-3183.30	31.42	0.08	-1.174e+05	9.34	4.52
44	48	130.00	-3424.21	-2.75	0.03	-4.120e+04	12.66	-3.22
44	48	215.00	-3577.98	-112.91	-0.24	3.646e+04	-13.70	-6.77
44	48	225.00	-3501.05	15.68	0.10	-1.030e+05	-18.78	-2.91
44	48	305.00	-3449.04	-9.23	0.10	-9.986e+04	-0.54	1.23
44	48	372.36	-3410.56	192.51	0.10	-5.746e+04	0.44	-4.89
44	48	376.76	-2826.02	242.79	0.09	-4.678e+04	0.53	-4.92
44	48	381.15	-2237.65	454.87	0.09	-3.617e+04	0.40	-4.41
44	48	386.08	-1590.34	721.06	0.09	-2.791e+04	0.41	-4.89
44	48	391.01	-943.59	656.97	0.10	-1.953e+04	0.27	-4.84
44	48	395.94	-326.81	306.66	0.04	-1.062e+04	0.89	-6.35

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-1.230e+04	-303.14	-0.77	-2.908e+05	-59.44	-27.74
	-181.53	2911.31	0.36	2.722e+05	46.98	21.48

Macro	Tipo	Angolo 1-Z (gradi)
47	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
47	2	0.0	-9365.83	602.59	-0.15	-3.960e+05	-9.50e-03	-11.25
47	2	45.00	-9397.32	579.57	-0.15	-4.288e+05	-15.25	-10.70
47	2	130.00	-1.043e+04	298.00	-0.11	-1.327e+05	-25.46	0.17
47	2	215.00	-1.105e+04	-5.85	0.17	1.281e+05	-4.27	3.77
47	2	305.00	-1.132e+04	-107.40	-0.16	-2.060e+05	-32.80	1.34
47	2	372.36	-1.167e+04	17.58	0.15	-2.105e+04	-9.01	15.81
47	2	376.76	-1.011e+04	391.79	0.13	-9.927e+04	-7.65	15.24
47	2	381.43	-8208.78	1359.07	0.08	-1.367e+05	-5.67	13.92
47	2	386.08	-6025.31	2475.03	0.06	-1.308e+05	-4.53	16.46
47	2	391.01	-3482.06	2462.72	0.09	-9.538e+04	-3.17	15.29
47	2	395.94	-1092.35	1148.48	0.10	-3.957e+04	-1.42	12.25
47	24	0.0	-5785.38	355.79	-0.08	-2.509e+05	2.83e-03	0.04
47	24	45.00	-5803.93	342.96	-0.08	-2.702e+05	-5.21	0.32
47	24	130.00	-6381.32	170.14	-0.09	-9.241e+04	-12.73	0.37
47	24	215.00	-6691.33	-15.32	-0.08	6.141e+04	-27.69	-0.39

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



47	24	305.00	-6749.09	-67.97	-0.08	-1.429e+05	-34.44	20.05
47	24	372.36	-6829.16	32.02	0.14	-3.831e+04	-10.69	30.49
47	24	376.76	-5871.08	241.89	0.14	-7.194e+04	-9.06	29.37
47	24	381.43	-4729.67	804.03	0.13	-8.527e+04	-7.35	27.35
47	24	386.08	-3446.90	1453.42	0.13	-7.713e+04	-5.71	25.08
47	24	391.01	-1978.96	1435.49	0.14	-5.457e+04	-3.52	20.98
47	24	395.94	-618.68	659.93	0.11	-2.209e+04	-1.24	13.62
47	38	0.0	-9021.12	917.72	-0.14	-3.964e+05	-9.58e-03	-10.91
47	38	45.00	-8983.37	902.93	-0.14	-4.299e+05	-14.55	-10.52
47	38	130.00	-9858.27	624.13	-0.10	-1.319e+05	-24.73	-0.51
47	38	215.00	-1.039e+04	315.17	0.18	1.439e+05	-3.77	2.58
47	38	305.00	-1.062e+04	223.53	-0.16	-1.659e+05	-30.61	0.76
47	38	372.36	-1.092e+04	302.59	0.12	-1298.46	-8.64	15.05
47	38	376.76	-9492.73	621.70	0.12	-8.394e+04	-7.47	14.84
47	38	381.43	-7731.71	1496.83	0.07	-1.259e+05	-5.47	13.54
47	38	386.08	-5685.82	2488.40	0.06	-1.236e+05	-4.45	16.53
47	38	391.01	-3285.49	2412.20	0.09	-9.128e+04	-3.14	15.07
47	38	395.94	-1021.60	1112.22	0.10	-3.804e+04	-1.39	11.99
47	45	0.0	-2433.04	697.99	-0.02	-1.440e+05	-1.29e-03	-1.69
47	45	45.00	-2321.61	706.67	-0.02	-1.537e+05	-2.57	-1.78
47	45	130.00	-2278.27	621.16	-0.02	-6.826e+04	-4.63	-1.53
47	45	215.00	-2206.33	515.64	0.04	2.232e+04	-3.87	-2.59
47	45	305.00	-2057.02	521.20	-0.02	-4.481e+04	-5.67	1.55
47	45	372.36	-1871.47	538.83	-0.02	-4.304e+04	-2.34	5.46
47	45	376.76	-1534.19	509.22	0.02	-3.507e+04	-2.30	6.01
47	45	381.43	-1180.06	577.43	0.02	-2.770e+04	-1.64	5.52
47	45	386.08	-820.73	627.27	0.02	-1.947e+04	-1.43	6.74
47	45	391.01	-453.06	484.93	0.03	-1.159e+04	-0.96	5.39
47	45	395.94	-142.06	174.69	0.03	-3529.22	-0.37	3.87
47	47	0.0	-3140.62	180.95	-0.04	-1.497e+05	-1.41e-03	-2.42
47	47	45.00	-3144.70	175.58	-0.04	-1.585e+05	-3.92	-2.24
47	47	130.00	-3376.87	81.45	-0.03	-7.260e+04	-6.20	-0.44
47	47	215.00	-3454.60	-20.00	0.03	-3980.69	-5.15	-0.60
47	47	305.00	-3370.06	-31.25	-0.04	-1.169e+05	-9.98	2.63
47	47	372.36	-3280.74	68.44	0.03	-7.960e+04	-3.11	7.00
47	47	376.76	-2695.94	133.35	0.04	-6.350e+04	-2.74	6.95
47	47	381.43	-2077.49	365.26	0.03	-4.793e+04	-2.07	6.40
47	47	386.08	-1458.75	634.17	0.03	-3.301e+04	-1.66	6.91
47	47	391.01	-821.87	596.32	0.03	-1.930e+04	-1.08	6.02
47	47	395.94	-274.30	246.34	0.03	-6368.03	-0.45	4.49
47	48	0.0	-3140.62	180.95	-0.04	-1.497e+05	-1.41e-03	-2.42
47	48	45.00	-3144.70	175.58	-0.04	-1.585e+05	-3.92	-2.24
47	48	130.00	-3376.87	81.45	-0.03	-7.260e+04	-6.20	-0.44
47	48	215.00	-3454.60	-20.00	0.03	-3980.69	-5.15	-0.60
47	48	305.00	-3370.06	-31.25	-0.04	-1.169e+05	-9.98	2.63
47	48	372.36	-3280.74	68.44	0.03	-7.960e+04	-3.11	7.00
47	48	376.76	-2695.94	133.35	0.04	-6.350e+04	-2.74	6.95
47	48	381.43	-2077.49	365.26	0.03	-4.793e+04	-2.07	6.40
47	48	386.08	-1458.75	634.17	0.03	-3.301e+04	-1.66	6.91
47	48	391.01	-821.87	596.32	0.03	-1.930e+04	-1.08	6.02
47	48	395.94	-274.30	246.34	0.03	-6368.03	-0.45	4.49
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.167e+04	-107.40	-0.16	-4.299e+05	-34.44	-11.25
			-142.06	2488.40	0.18	1.439e+05	2.83e-03	30.49

Macro	Tipo	Angolo 1-Z (gradi)
56	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
56	2	0.0	-9481.79	202.18	-0.27	-2.981e+05	2.87e-03	-18.59
56	2	45.00	-9561.27	174.95	-0.27	-3.222e+05	-33.20	-14.17
56	2	130.00	-1.056e+04	65.30	-0.06	-7.181e+04	-35.47	10.91
56	2	215.00	-1.139e+04	-290.07	0.52	2.177e+05	21.78	15.66
56	2	225.00	-1.166e+04	47.85	-0.35	-1.768e+05	34.52	4.97
56	2	305.00	-1.146e+04	-70.16	-0.35	-1.793e+05	-31.14	-0.31
56	2	372.36	-1.213e+04	649.34	0.05	5.275e+04	-9.68	22.03
56	2	376.76	-1.059e+04	972.72	0.04	-4.816e+04	-8.22	21.27
56	2	381.15	-8784.20	1868.19	0.02	-9.996e+04	-6.79	20.18

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



56	2	386.08	-6506.34	2970.76	2.50e-03	-1.231e+05	-5.16	19.51
56	2	391.01	-3924.42	2851.23	0.02	-1.083e+05	-4.01	19.72
56	2	395.94	-1217.77	1535.24	0.10	-6.593e+04	-2.34	15.97
56	18	0.0	-8888.55	203.71	-0.24	-2.758e+05	7.47e-03	-12.98
56	18	45.00	-8962.80	178.32	-0.24	-2.990e+05	-28.52	-8.76
56	18	130.00	-9908.72	75.24	-0.07	-6.049e+04	-30.45	10.36
56	18	215.00	-1.070e+04	-254.81	0.31	2.180e+05	2.02	12.58
56	18	225.00	-1.097e+04	41.50	-0.28	-1.489e+05	10.06	12.13
56	18	305.00	-1.077e+04	-60.99	-0.28	-1.529e+05	-34.77	14.11
56	18	372.36	-1.140e+04	582.87	0.08	6.903e+04	-10.98	32.21
56	18	376.76	-9986.53	900.13	0.06	-3.469e+04	-9.22	30.94
56	18	381.15	-8310.00	1757.53	0.06	-8.938e+04	-7.84	29.23
56	18	386.08	-6173.41	2812.38	0.05	-1.149e+05	-5.90	25.76
56	18	391.01	-3732.42	2712.03	0.07	-1.025e+05	-4.15	23.58
56	18	395.94	-1158.94	1470.49	0.10	-6.275e+04	-2.10	16.76
56	45	0.0	-2451.99	505.35	-0.06	-1.167e+05	0.01	-1.75
56	45	45.00	-2362.01	511.60	-0.06	-1.219e+05	-7.51	-0.21
56	45	130.00	-2316.05	495.79	5.95e-03	-5.076e+04	-6.46	4.72
56	45	215.00	-2297.64	394.22	0.17	4.127e+04	11.30	4.52
56	45	225.00	-2190.76	442.87	-0.08	-3.862e+04	14.76	4.89
56	45	305.00	-2073.14	403.30	-0.08	-4.596e+04	1.34	3.69
56	45	372.36	-1944.61	530.78	-0.09	-3.341e+04	-0.98	8.25
56	45	376.76	-1608.38	503.46	-0.04	-2.840e+04	-1.09	7.57
56	45	381.15	-1270.99	575.12	-0.03	-2.339e+04	-1.02	6.89
56	45	386.08	-895.34	636.24	-0.02	-1.876e+04	-0.78	5.32
56	45	391.01	-520.98	493.90	-0.02	-1.369e+04	-0.58	4.52
56	45	395.94	-162.93	202.86	-1.48e-03	-7511.83	-0.44	3.43
56	47	0.0	-3154.10	34.79	-0.07	-1.209e+05	3.12e-03	-4.58
56	47	45.00	-3174.31	28.01	-0.07	-1.262e+05	-8.82	-3.38
56	47	130.00	-3400.21	-5.15	-0.01	-5.375e+04	-9.54	3.15
56	47	215.00	-3535.25	-114.73	0.17	2.084e+04	8.94	4.46
56	47	225.00	-3454.60	17.74	-0.09	-1.165e+05	12.72	2.17
56	47	305.00	-3394.36	-3.27	-0.09	-1.121e+05	-3.71	0.48
56	47	372.36	-3363.35	210.85	-0.04	-6.732e+04	-1.71	5.98
56	47	376.76	-2781.32	260.78	-0.03	-5.555e+04	-1.56	5.95
56	47	381.15	-2193.49	472.47	-0.02	-4.337e+04	-1.31	5.51
56	47	386.08	-1546.91	736.76	-0.03	-3.334e+04	-1.01	5.27
56	47	391.01	-900.86	671.07	-0.02	-2.316e+04	-0.83	5.19
56	47	395.94	-288.27	322.82	7.07e-03	-1.247e+04	-0.64	4.38
56	48	0.0	-3154.10	34.79	-0.07	-1.209e+05	3.12e-03	-4.58
56	48	45.00	-3174.31	28.01	-0.07	-1.262e+05	-8.82	-3.38
56	48	130.00	-3400.21	-5.15	-0.01	-5.375e+04	-9.54	3.15
56	48	215.00	-3535.25	-114.73	0.17	2.084e+04	8.94	4.46
56	48	225.00	-3454.60	17.74	-0.09	-1.165e+05	12.72	2.17
56	48	305.00	-3394.36	-3.27	-0.09	-1.121e+05	-3.71	0.48
56	48	372.36	-3363.35	210.85	-0.04	-6.732e+04	-1.71	5.98
56	48	376.76	-2781.32	260.78	-0.03	-5.555e+04	-1.56	5.95
56	48	381.15	-2193.49	472.47	-0.02	-4.337e+04	-1.31	5.51
56	48	386.08	-1546.91	736.76	-0.03	-3.334e+04	-1.01	5.27
56	48	391.01	-900.86	671.07	-0.02	-2.316e+04	-0.83	5.19
56	48	395.94	-288.27	322.82	7.07e-03	-1.247e+04	-0.64	4.38
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.213e+04	-290.07	-0.35	-3.222e+05	-35.47	-18.59
			-162.93	2970.76	0.52	2.180e+05	34.52	32.21

Macro	Tipo	Angolo 1-Z (gradi)
75	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
		0.0	-9443.46	639.49	0.21	-3.794e+05	9.96e-03	20.41
75	2	45.00	-9478.74	615.69	0.21	-4.147e+05	29.85	17.53
75	2	130.00	-1.055e+04	317.37	0.09	-1.191e+05	36.68	-6.50
75	2	215.00	-1.117e+04	-9.70	-0.40	1.248e+05	-20.70	-8.41
75	2	305.00	-1.142e+04	-145.81	0.36	-1.791e+05	50.27	7.93
75	2	372.36	-1.170e+04	11.79	-0.16	-1.699e+04	14.25	-20.60
75	2	376.76	-1.014e+04	393.27	-0.12	-9.537e+04	11.97	-21.06
75	2	381.43	-8237.18	1359.63	-0.09	-1.336e+05	9.68	-21.41
75	2	386.08	-6058.24	2451.60	-0.08	-1.295e+05	7.72	-22.28

RELAZIONE DI RESISTENZA AL FUOCO



75	2	391.01	-3522.31	2397.14	-0.07	-9.599e+04	4.77	-21.61
75	2	395.66	-1208.44	1172.69	-0.13	-4.367e+04	2.96	-22.73
75	12	0.0	-5827.00	380.60	0.12	-2.435e+05	-1.90e-03	5.34
75	12	45.00	-5847.01	367.43	0.12	-2.643e+05	14.18	3.63
75	12	130.00	-6450.22	186.39	0.09	-8.613e+04	19.20	-3.35
75	12	215.00	-6760.70	-12.22	-0.03	5.955e+04	18.62	-1.62
75	12	305.00	-6813.91	-85.36	0.17	-1.260e+05	43.73	-16.85
75	12	372.36	-6852.68	32.70	-0.15	-3.534e+04	13.51	-34.06
75	12	376.76	-5891.50	246.69	-0.13	-6.908e+04	11.36	-33.16
75	12	381.43	-4748.41	808.10	-0.14	-8.296e+04	9.51	-32.25
75	12	386.08	-3468.42	1442.17	-0.14	-7.598e+04	7.44	-28.83
75	12	391.01	-2004.33	1398.12	-0.13	-5.463e+04	4.32	-24.58
75	12	395.66	-686.56	674.08	-0.13	-2.429e+04	2.04	-19.48
75	38	0.0	-9101.94	963.85	0.20	-3.815e+05	0.01	19.98
75	38	45.00	-9066.71	947.57	0.20	-4.174e+05	28.85	17.31
75	38	130.00	-9979.94	653.68	0.08	-1.199e+05	35.64	-5.75
75	38	215.00	-1.051e+04	323.83	-0.40	1.398e+05	-21.53	-7.46
75	38	305.00	-1.072e+04	204.51	0.35	-1.409e+05	46.66	8.38
75	38	372.36	-1.095e+04	311.62	-0.13	1791.68	13.48	-19.17
75	38	376.76	-9516.34	636.87	-0.11	-8.097e+04	11.41	-19.88
75	38	381.43	-7752.66	1510.69	-0.09	-1.234e+05	9.24	-20.31
75	38	386.08	-5711.91	2476.13	-0.08	-1.228e+05	7.37	-21.16
75	38	391.01	-3318.90	2354.63	-0.07	-9.214e+04	4.56	-20.58
75	38	395.66	-1127.78	1138.91	-0.12	-4.210e+04	2.82	-21.62
75	45	0.0	-2454.53	717.80	0.04	-1.427e+05	1.82e-03	4.12
75	45	45.00	-2343.10	725.02	0.04	-1.528e+05	6.05	3.59
75	45	130.00	-2304.78	636.82	2.20e-03	-6.744e+04	6.38	-0.09
75	45	215.00	-2228.45	529.89	-0.10	2.000e+04	-3.92	1.06
75	45	305.00	-2070.67	536.59	0.07	-4.041e+04	7.78	1.05
75	45	372.36	-1871.30	554.40	0.01	-4.329e+04	3.02	-5.13
75	45	376.76	-1532.72	526.04	-0.01	-3.505e+04	2.73	-5.81
75	45	381.43	-1177.53	594.91	-0.02	-2.749e+04	2.26	-5.97
75	45	386.08	-820.25	636.57	-0.03	-1.952e+04	1.85	-5.98
75	45	391.01	-453.32	480.03	-0.03	-1.169e+04	1.06	-5.15
75	45	395.66	-152.72	182.92	-0.03	-4015.56	0.56	-5.05
75	47	0.0	-3157.60	185.65	0.05	-1.452e+05	1.87e-03	5.12
75	47	45.00	-3163.89	180.01	0.05	-1.547e+05	8.15	4.21
75	47	130.00	-3410.33	80.14	0.02	-6.888e+04	8.73	-1.40
75	47	215.00	-3487.68	-26.89	-0.09	-5057.69	-2.48	-0.62
75	47	305.00	-3401.39	-48.96	0.09	-1.089e+05	14.74	0.34
75	47	372.36	-3294.85	58.87	-0.03	-7.818e+04	4.54	-7.86
75	47	376.76	-2707.35	127.07	-0.04	-6.186e+04	3.88	-8.12
75	47	381.43	-2087.77	360.38	-0.03	-4.652e+04	3.16	-8.17
75	47	386.08	-1470.12	624.46	-0.04	-3.215e+04	2.58	-8.23
75	47	391.01	-834.04	577.19	-0.03	-1.897e+04	1.48	-7.19
75	47	395.66	-302.78	250.62	-0.04	-6939.99	0.82	-7.24
75	48	0.0	-3157.60	185.65	0.05	-1.452e+05	1.87e-03	5.12
75	48	45.00	-3163.89	180.01	0.05	-1.547e+05	8.15	4.21
75	48	130.00	-3410.33	80.14	0.02	-6.888e+04	8.73	-1.40
75	48	215.00	-3487.68	-26.89	-0.09	-5057.69	-2.48	-0.62
75	48	305.00	-3401.39	-48.96	0.09	-1.089e+05	14.74	0.34
75	48	372.36	-3294.85	58.87	-0.03	-7.818e+04	4.54	-7.86
75	48	376.76	-2707.35	127.07	-0.04	-6.186e+04	3.88	-8.12
75	48	381.43	-2087.77	360.38	-0.03	-4.652e+04	3.16	-8.17
75	48	386.08	-1470.12	624.46	-0.04	-3.215e+04	2.58	-8.23
75	48	391.01	-834.04	577.19	-0.03	-1.897e+04	1.48	-7.19
75	48	395.66	-302.78	250.62	-0.04	-6939.99	0.82	-7.24
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.170e+04	-145.81	-0.40	-4.174e+05	-21.53	-34.06
			-152.72	2476.13	0.36	1.398e+05	50.27	20.41

Macro	Tipo	Angolo 1-Z (gradi)
71	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
71	2	0.0	-7818.18	104.07	-0.01	-3.964e+04	-0.02	-4.94
71	2	45.00	-7810.51	107.00	-0.01	-4.226e+04	3.69	-7.76
71	2	130.00	-7742.09	108.06	-0.07	2114.70	-8.06	-8.99

RELAZIONE DI RESISTENZA AL FUOCO



71	2	215.00	-7553.65	115.25	-0.04	3.722e+04	-15.13	-2.29
71	2	217.50	-7617.17	113.09	0.05	5.876e+04	-14.73	-0.60
71	2	220.00	-7594.91	113.16	0.07	5.613e+04	-14.46	-0.26
71	2	222.50	-7554.04	112.84	0.06	5.282e+04	-14.10	-0.07
71	2	225.00	-7510.20	112.20	0.06	5.259e+04	-13.77	0.08
71	2	305.00	-7373.01	134.66	0.05	6.856e+04	-5.07	5.10
71	2	368.99	-7192.38	373.96	4.77e-03	9.671e+04	-2.03	5.52
71	2	373.42	-6390.37	375.10	0.01	3.354e+04	-1.80	5.57
71	2	377.85	-5519.27	406.68	0.01	-1.588e+04	-1.40	5.51
71	2	382.28	-4528.30	441.37	0.02	-4.243e+04	-1.28	6.69
71	2	386.71	-3409.50	467.65	0.03	-4.901e+04	-0.99	6.01
71	2	391.14	-2173.71	466.01	0.02	-4.102e+04	-0.44	5.16
71	2	395.57	-894.28	388.24	5.76e-03	-2.533e+04	-0.33	3.71
71	14	0.0	-4099.52	2.08	663.02	-2.793e+04	7.54	-6231.54
71	14	45.00	-4099.74	4.42	663.02	-2.812e+04	2.973e+04	-6930.91
71	14	130.00	-4009.48	3.61	426.33	-4057.35	6.280e+04	-3322.68
71	14	215.00	-3836.46	0.71	60.39	1.585e+04	6.671e+04	1556.76
71	14	217.50	-3855.39	-0.93	34.61	2.354e+04	6.688e+04	1950.82
71	14	220.00	-3832.42	-1.08	3.08	2.040e+04	6.698e+04	2144.01
71	14	222.50	-3800.23	-1.49	-42.82	1.788e+04	6.699e+04	2309.59
71	14	225.00	-3766.60	-2.14	-99.16	1.786e+04	6.685e+04	2452.23
71	14	305.00	-3669.22	-5.29	-282.55	3.457e+04	4.459e+04	5888.30
71	14	368.99	-3504.30	87.31	-608.76	5.043e+04	6841.11	6836.13
71	14	373.42	-3117.02	96.50	-504.34	1.902e+04	4417.36	7560.94
71	14	377.85	-2695.20	122.26	-395.83	-5520.35	2498.23	7904.89
71	14	382.28	-2215.52	148.79	-288.28	-1.904e+04	1098.41	7799.69
71	14	386.71	-1672.24	172.68	-187.83	-2.270e+04	218.90	7078.61
71	14	391.14	-1071.25	188.01	-102.77	-1.927e+04	-155.21	5520.49
71	14	395.57	-445.44	170.82	-42.38	-1.202e+04	-64.80	3008.85
71	45	0.0	-2335.27	886.80	0.02	4343.54	-1.70e-03	-2.48
71	45	45.00	-2262.47	889.84	0.02	-1.558e+04	-6.50e-03	-3.25
71	45	130.00	-2071.96	854.94	0.02	-1.659e+04	1.05	-4.57
71	45	215.00	-1810.61	802.02	0.01	-1.691e+04	2.13	-6.61
71	45	217.50	-1850.86	753.76	7.14e-03	-3006.44	2.12	-6.74
71	45	220.00	-1827.06	748.77	4.60e-03	-6318.60	2.11	-6.79
71	45	222.50	-1791.38	748.42	-1.10e-04	-9576.74	2.12	-6.84
71	45	225.00	-1753.95	748.25	-1.97e-03	-1.039e+04	2.07	-6.90
71	45	305.00	-1537.88	753.52	-0.01	-2.090e+04	1.36	-7.45
71	45	368.99	-1301.23	732.62	-0.03	-1.960e+04	0.66	-6.32
71	45	373.42	-1098.27	607.38	-0.02	-1.735e+04	0.54	-5.30
71	45	377.85	-897.72	491.15	-0.03	-1.529e+04	0.51	-4.01
71	45	382.28	-697.52	380.99	-0.03	-1.281e+04	0.43	-3.10
71	45	386.71	-498.01	280.74	-0.03	-1.001e+04	0.29	-1.88
71	45	391.14	-302.32	191.38	-0.02	-7120.17	0.19	-0.90
71	45	395.57	-115.50	112.50	-9.02e-03	-4365.10	-0.07	0.35
71	46	0.0	-4270.88	951.83	-1.36e-03	2.479e+04	-0.01	-5.19
71	46	45.00	-4193.06	954.13	-1.36e-03	3349.96	-0.14	-6.72
71	46	130.00	-4045.80	917.29	-5.62e-03	1.423e+04	-2.85	-7.36
71	46	215.00	-3825.24	863.58	-2.44e-03	2.544e+04	-4.19	-6.82
71	46	217.50	-3910.84	814.24	0.01	5.276e+04	-4.13	-6.57
71	46	220.00	-3895.90	809.08	0.02	5.121e+04	-4.10	-6.50
71	46	222.50	-3861.79	808.51	0.01	4.803e+04	-3.99	-6.46
71	46	225.00	-3824.69	808.05	0.01	4.711e+04	-3.96	-6.45
71	46	305.00	-3602.98	816.38	4.36e-03	3.476e+04	-2.52	-4.95
71	46	368.99	-3414.92	857.22	-9.11e-03	5.203e+04	-0.70	-3.11
71	46	373.42	-3036.08	733.53	1.46e-03	1.888e+04	-0.62	-2.45
71	46	377.85	-2624.68	634.38	-7.24e-03	-7470.17	-0.41	-1.30
71	46	382.28	-2153.11	542.94	-8.46e-03	-2.182e+04	-0.34	-0.05
71	46	386.71	-1617.27	457.53	-5.83e-03	-2.568e+04	-0.30	0.86
71	46	391.14	-1024.07	370.90	-6.88e-03	-2.193e+04	-0.12	1.46
71	46	395.57	-407.26	263.25	-5.06e-04	-1.403e+04	-0.24	2.03
71	47	0.0	-2965.16	-19.35	0.02	-6.015e+04	-3.31e-03	0.38
71	47	45.00	-2966.89	-15.99	0.02	-5.982e+04	2.88	-0.59
71	47	130.00	-2846.39	-12.39	-6.26e-03	-4.431e+04	-0.26	-2.53
71	47	215.00	-2637.82	-5.95	-5.41e-03	-3.520e+04	-1.87	-1.39
71	47	217.50	-2616.58	-5.95	0.03	-3.938e+04	-1.67	-0.71
71	47	220.00	-2585.73	-5.65	0.03	-4.413e+04	-1.53	-0.65
71	47	222.50	-2551.88	-5.56	0.03	-4.680e+04	-1.40	-0.63
71	47	225.00	-2517.65	-5.59	0.02	-4.681e+04	-1.28	-0.63
71	47	305.00	-2420.52	6.52	0.01	-3.165e+04	1.99	0.04
71	47	368.99	-2206.50	92.60	-0.03	-3.452e+04	0.51	-0.70
71	47	373.42	-1871.44	91.11	-0.02	-2.885e+04	0.38	-0.09
71	47	377.85	-1537.07	89.17	-0.02	-2.336e+04	0.30	0.09
71	47	382.28	-1203.58	87.11	-0.01	-1.808e+04	0.19	0.47
71	47	386.71	-871.65	84.56	-9.56e-03	-1.308e+04	0.12	0.42

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



71	47	391.14	-543.75	79.27	-9.10e-03	-8432.76	0.13	0.34
71	47	395.57	-231.65	64.28	-8.15e-03	-4431.18	6.50e-03	0.26
71	48	0.0	-2965.16	-19.35	0.02	-6.015e+04	-3.31e-03	0.38
71	48	45.00	-2966.89	-15.99	0.02	-5.982e+04	2.88	-0.59
71	48	130.00	-2846.39	-12.39	-6.26e-03	-4.431e+04	-0.26	-2.53
71	48	215.00	-2637.82	-5.95	-5.41e-03	-3.520e+04	-1.87	-1.39
71	48	217.50	-2616.58	-5.95	0.03	-3.938e+04	-1.67	-0.71
71	48	220.00	-2585.73	-5.65	0.03	-4.413e+04	-1.53	-0.65
71	48	222.50	-2551.88	-5.56	0.03	-4.680e+04	-1.40	-0.63
71	48	225.00	-2517.65	-5.59	0.02	-4.681e+04	-1.28	-0.63
71	48	305.00	-2420.52	6.52	0.01	-3.165e+04	1.99	0.04
71	48	368.99	-2206.50	92.60	-0.03	-3.452e+04	0.51	-0.70
71	48	373.42	-1871.44	91.11	-0.02	-2.885e+04	0.38	-0.09
71	48	377.85	-1537.07	89.17	-0.02	-2.336e+04	0.30	0.09
71	48	382.28	-1203.58	87.11	-0.01	-1.808e+04	0.19	0.47
71	48	386.71	-871.65	84.56	-9.56e-03	-1.308e+04	0.12	0.42
71	48	391.14	-543.75	79.27	-9.10e-03	-8432.76	0.13	0.34
71	48	395.57	-231.65	64.28	-8.15e-03	-4431.18	6.50e-03	0.26
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-7818.18	-19.35	-608.76	-6.015e+04	-155.21	-6930.91
			-115.50	954.13	663.02	9.671e+04	6.699e+04	7904.89

Macro	Tipo	Angolo 1-Z (gradi)
59	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
59	2	0.0	-8655.70	-218.49	-0.19	8.989e+04	0.02	-15.95
59	2	45.00	-8664.66	-219.65	-0.19	9.733e+04	-19.97	-15.48
59	2	130.00	-8634.71	-244.82	-0.08	1.653e+05	-18.52	-10.17
59	2	216.88	-8473.99	-285.82	-0.19	2.279e+05	3.81	-40.45
59	2	217.62	-8578.33	-216.14	-3.00	2.595e+05	0.03	-100.87
59	2	218.36	-8551.23	-197.12	-2.39	2.562e+05	-8.61	-100.56
59	2	219.09	-8506.85	-191.38	-2.12	2.529e+05	-11.18	-98.95
59	2	219.83	-8461.74	-189.34	-2.11	2.530e+05	-13.20	-97.82
59	2	220.57	-8416.48	-188.49	-2.14	2.567e+05	-16.23	-97.10
59	2	221.31	-8371.22	-187.98	-2.17	2.639e+05	-19.69	-96.49
59	2	222.05	-8325.64	-188.00	-2.17	2.748e+05	-23.30	-95.91
59	2	305.00	-8322.88	-207.93	-2.17	2.912e+05	-421.65	-21.99
59	2	368.99	-7491.53	60.79	2.22	1.624e+05	-142.44	151.06
59	2	373.42	-6683.80	63.08	2.24	8.992e+04	-123.31	156.66
59	2	377.85	-5808.80	100.79	2.26	3.070e+04	-103.82	160.86
59	2	382.28	-4817.76	135.38	2.30	-6245.79	-84.50	164.57
59	2	386.71	-3692.37	164.41	2.37	-2.235e+04	-65.74	164.74
59	2	391.14	-2436.90	189.67	2.40	-2.291e+04	-47.43	155.00
59	2	395.57	-1100.83	175.30	1.96	-1.432e+04	-16.96	109.65
59	25	0.0	-2108.64	-18.50	-663.28	-5.935e+04	-7.52	6229.24
59	25	45.00	-2111.20	-15.30	-663.28	-5.929e+04	-2.973e+04	6928.91
59	25	130.00	-2003.07	-13.36	-426.61	-4.120e+04	-6.280e+04	3315.18
59	25	216.88	-1832.91	-14.71	-66.96	-2.321e+04	-6.742e+04	-1673.20
59	25	217.62	-1849.67	-9.81	-41.78	-1.645e+04	-6.746e+04	-1990.22
59	25	218.36	-1823.08	-4.61	-9.99	-2.023e+04	-6.750e+04	-2097.84
59	25	219.09	-1789.86	-2.36	36.19	-2.279e+04	-6.751e+04	-2182.30
59	25	219.83	-1755.75	-1.49	92.91	-2.279e+04	-6.748e+04	-2247.34
59	25	220.57	-1721.52	-1.21	154.65	-2.009e+04	-6.739e+04	-2291.50
59	25	221.31	-1687.18	-1.23	217.27	-1.468e+04	-6.726e+04	-2318.81
59	25	222.05	-1652.82	-1.37	277.38	-6554.70	-6.708e+04	-2331.09
59	25	305.00	-1659.91	-5.34	277.38	-8035.44	-4.467e+04	-5911.61
59	25	368.99	-1386.52	-31.27	608.68	-2.205e+04	-6878.91	-6801.25
59	25	373.42	-1175.24	-27.83	504.35	-1.794e+04	-4450.13	-7523.48
59	25	377.85	-965.82	-23.18	395.97	-1.432e+04	-2526.07	-7862.54
59	25	382.28	-756.55	-14.44	288.59	-1.083e+04	-1121.25	-7754.61
59	25	386.71	-548.80	-3.08	188.25	-7623.20	-236.43	-7033.93
59	25	391.14	-343.16	7.64	103.23	-4622.64	142.77	-5477.94
59	25	395.57	-146.83	16.78	42.76	-2108.57	58.25	-2974.32
59	45	0.0	-2516.86	805.46	-0.07	3.125e+04	-1.27e-03	-2.92
59	45	45.00	-2446.59	807.04	-0.07	1.432e+04	-7.73	-0.98
59	45	130.00	-2237.90	782.85	-0.02	1.183e+04	-2.30	4.43
59	45	216.88	-1961.35	743.79	-0.04	9030.10	2.91	0.34

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



59	45	217.62	-1999.28	723.46	-0.56	2.236e+04	2.19	-10.53
59	45	218.36	-1976.21	728.65	-0.44	1.934e+04	0.66	-10.51
59	45	219.09	-1942.74	732.01	-0.40	1.665e+04	0.27	-10.20
59	45	219.83	-1907.86	733.29	-0.39	1.643e+04	-0.08	-9.99
59	45	220.57	-1872.79	733.50	-0.40	1.887e+04	-0.60	-9.84
59	45	221.31	-1837.51	733.12	-0.39	2.402e+04	-1.22	-9.72
59	45	222.05	-1802.21	732.39	-0.39	3.188e+04	-2.03	-9.54
59	45	305.00	-1684.67	724.42	-0.39	4376.82	-73.54	4.14
59	45	368.99	-1353.23	603.64	0.36	-1.268e+04	-25.27	34.72
59	45	373.42	-1148.50	481.91	0.36	-1.161e+04	-21.84	34.34
59	45	377.85	-946.46	368.47	0.37	-1.071e+04	-18.45	33.75
59	45	382.28	-743.20	268.15	0.37	-9206.85	-15.13	33.71
59	45	386.71	-539.73	183.86	0.38	-7291.61	-11.62	32.44
59	45	391.14	-335.22	114.74	0.38	-4819.18	-8.44	30.99
59	45	395.57	-139.13	62.82	0.32	-2303.28	-3.37	22.05
59	47	0.0	-3128.55	-98.25	-0.03	-3.396e+04	1.50e-03	-2.18
59	47	45.00	-3134.77	-95.76	-0.03	-3.129e+04	-2.37	-1.95
59	47	130.00	-3017.74	-97.77	-9.62e-03	-1.223e+04	0.54	-1.30
59	47	216.88	-2819.53	-102.08	-0.05	2793.26	5.91	-9.89
59	47	217.62	-2813.99	-82.97	-0.77	2736.64	4.95	-25.17
59	47	218.36	-2782.55	-77.67	-0.62	-2068.23	2.76	-25.13
59	47	219.09	-2747.90	-76.04	-0.55	-4750.47	2.09	-24.75
59	47	219.83	-2713.34	-75.46	-0.55	-4702.67	1.57	-24.48
59	47	220.57	-2678.82	-75.27	-0.55	-1931.41	0.80	-24.30
59	47	221.31	-2644.38	-75.22	-0.56	3549.63	-0.10	-24.16
59	47	222.05	-2609.96	-75.31	-0.55	1.174e+04	-1.10	-24.02
59	47	305.00	-2618.71	-72.28	-0.55	1.522e+04	-102.93	-6.57
59	47	368.99	-2242.68	20.11	0.55	-2.713e+04	-34.75	36.26
59	47	373.42	-1907.72	21.18	0.56	-2.272e+04	-30.03	36.81
59	47	377.85	-1573.17	22.82	0.55	-1.844e+04	-25.24	37.61
59	47	382.28	-1239.72	22.61	0.56	-1.440e+04	-20.55	38.55
59	47	386.71	-906.18	22.33	0.58	-1.039e+04	-16.04	38.85
59	47	391.14	-574.20	24.40	0.59	-6547.95	-11.65	36.80
59	47	395.57	-252.69	24.09	0.48	-3127.62	-4.13	26.15
59	48	0.0	-3128.55	-98.25	-0.03	-3.396e+04	1.50e-03	-2.18
59	48	45.00	-3134.77	-95.76	-0.03	-3.129e+04	-2.37	-1.95
59	48	130.00	-3017.74	-97.77	-9.62e-03	-1.223e+04	0.54	-1.30
59	48	216.88	-2819.53	-102.08	-0.05	2793.26	5.91	-9.89
59	48	217.62	-2813.99	-82.97	-0.77	2736.64	4.95	-25.17
59	48	218.36	-2782.55	-77.67	-0.62	-2068.23	2.76	-25.13
59	48	219.09	-2747.90	-76.04	-0.55	-4750.47	2.09	-24.75
59	48	219.83	-2713.34	-75.46	-0.55	-4702.67	1.57	-24.48
59	48	220.57	-2678.82	-75.27	-0.55	-1931.41	0.80	-24.30
59	48	221.31	-2644.38	-75.22	-0.56	3549.63	-0.10	-24.16
59	48	222.05	-2609.96	-75.31	-0.55	1.174e+04	-1.10	-24.02
59	48	305.00	-2618.71	-72.28	-0.55	1.522e+04	-102.93	-6.57
59	48	368.99	-2242.68	20.11	0.55	-2.713e+04	-34.75	36.26
59	48	373.42	-1907.72	21.18	0.56	-2.272e+04	-30.03	36.81
59	48	377.85	-1573.17	22.82	0.55	-1.844e+04	-25.24	37.61
59	48	382.28	-1239.72	22.61	0.56	-1.440e+04	-20.55	38.55
59	48	386.71	-906.18	22.33	0.58	-1.039e+04	-16.04	38.85
59	48	391.14	-574.20	24.40	0.59	-6547.95	-11.65	36.80
59	48	395.57	-252.69	24.09	0.48	-3127.62	-4.13	26.15
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-8664.66	-285.82	-663.28	-5.935e+04	-6.751e+04	-7862.54
			-139.13	807.04	608.68	2.912e+05	142.77	6928.91

Macro	Tipo	Angolo 1-Z (gradi)
48	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
48	2	0.0	-1.020e+04	142.48	-3.29	2.118e+05	9.50e-03	-25.54
48	2	45.00	-1.017e+04	165.50	-3.29	1.966e+05	-170.10	-50.73
48	2	130.00	-1.018e+04	282.20	5.37	1.062e+05	313.36	-62.63
48	2	215.00	-1.044e+04	586.37	-0.30	2906.20	306.88	33.98
48	2	225.00	-1.041e+04	677.36	-0.17	-3.382e+05	307.68	47.72
48	2	305.00	-1.079e+04	696.13	-3.49	-4.887e+05	-35.58	85.70
48	2	340.00	-1.078e+04	500.45	0.02	5.062e+04	11.95	-47.84

RELAZIONE DI RESISTENZA AL FUOCO



48	2	341.42	-1.051e+04	1285.19	-1.02	-1.422e+04	8.44	-20.99
48	2	345.22	-9277.24	2188.48	-0.75	-3.729e+04	6.01	35.33
48	2	348.74	-7977.17	598.92	-0.42	-1.399e+04	5.98	57.16
48	2	351.27	-7104.04	12.15	-0.72	-7619.76	4.26	54.57
48	2	355.05	-5885.10	58.58	-0.63	-2.688e+04	0.49	42.11
48	2	358.84	-4509.68	70.82	-0.26	-1.090e+04	-0.24	26.83
48	2	362.34	-3255.82	219.05	-0.04	554.35	-0.61	13.68
48	2	368.25	-1370.67	113.56	0.03	-451.73	0.03	1.67
48	38	0.0	-9118.12	653.81	-2.27	1.823e+05	9.58e-03	-24.06
48	38	45.00	-9155.87	668.60	-2.27	1.624e+05	-117.24	-42.57
48	38	130.00	-9213.17	748.78	4.07	1.082e+05	249.07	-43.23
48	38	215.00	-9494.83	991.30	-0.62	3.207e+04	205.54	31.54
48	38	225.00	-9481.51	1124.08	-0.51	-2.810e+05	201.57	40.31
48	38	305.00	-9921.02	1071.80	-3.57	-4.542e+05	-135.86	50.22
48	38	340.00	-9919.02	918.64	1.92	2.524e+04	-14.13	-48.59
48	38	341.42	-9629.72	1597.48	0.78	-2.333e+04	-14.35	-28.38
48	38	345.22	-8491.47	2360.38	1.08	-4.191e+04	-7.72	11.35
48	38	348.74	-7285.67	818.25	1.37	-1.683e+04	1.03	22.65
48	38	351.27	-6485.78	277.79	0.31	-1.064e+04	3.08	19.06
48	38	355.05	-5361.27	303.57	-0.31	-2.650e+04	0.07	20.40
48	38	358.84	-4097.87	274.23	-0.20	-1.047e+04	-8.97e-03	15.87
48	38	362.34	-2955.12	355.08	-0.03	178.21	-0.42	8.38
48	38	368.25	-1240.76	149.84	0.02	-234.44	0.13	0.22
48	43	0.0	-3650.68	872.25	2.29	6.328e+04	2.21e-03	-21.10
48	43	45.00	-3760.71	865.82	2.29	5.307e+04	117.94	-12.13
48	43	130.00	-3771.62	853.07	-1.08	7.975e+04	17.33	37.44
48	43	215.00	-3815.43	873.26	-2.07	8.563e+04	-185.13	27.65
48	43	225.00	-3773.22	973.33	-2.01	-4.856e+04	-209.67	18.80
48	43	305.00	-3980.90	846.28	-2.91	-1.354e+05	-449.08	-70.02
48	43	340.00	-3856.31	846.11	7.93	4.659e+04	-96.21	-43.85
48	43	341.42	-3691.58	995.31	6.42	4.436e+04	-86.14	-45.97
48	43	345.22	-3310.68	1185.23	6.82	2.261e+04	-51.09	-65.80
48	43	348.74	-2882.15	570.60	6.93	2.235e+04	-15.65	-90.17
48	43	351.27	-2601.59	387.84	3.65	1.735e+04	-1.70	-96.75
48	43	355.05	-2194.80	386.95	0.83	3152.66	-1.28	-52.01
48	43	358.84	-1724.80	359.92	0.04	1150.27	0.83	-21.19
48	43	362.34	-1267.39	356.57	-0.03	1752.08	0.42	-8.96
48	43	368.25	-535.16	155.52	-0.02	-345.73	0.32	-3.04
48	45	0.0	-2101.05	865.78	2.36	2.947e+04	1.29e-03	-15.39
48	45	45.00	-2212.47	857.11	2.36	1.998e+04	121.77	-4.64
48	45	130.00	-2230.08	830.42	-1.57	5.629e+04	-22.40	40.03
48	45	215.00	-2259.77	814.92	-1.78	7.394e+04	-199.59	20.13
48	45	225.00	-2231.90	906.15	-1.74	-8686.11	-221.23	10.61
48	45	305.00	-2398.79	781.59	-2.23	-8.008e+04	-397.75	-72.97
48	45	340.00	-2296.21	802.44	7.10	1.956e+04	-87.66	-33.74
48	45	341.42	-2170.16	853.64	5.88	2.672e+04	-78.19	-38.94
48	45	345.22	-1947.71	918.30	6.21	1.370e+04	-46.50	-63.29
48	45	348.74	-1691.94	507.94	6.26	1.440e+04	-14.69	-87.70
48	45	351.27	-1530.22	402.28	3.35	1.076e+04	-1.99	-93.27
48	45	355.05	-1289.79	391.75	0.82	2443.48	-1.21	-51.63
48	45	358.84	-1013.59	352.66	0.07	1044.72	0.76	-22.20
48	45	362.34	-745.83	317.82	-0.02	1061.88	0.43	-9.72
48	45	368.25	-313.50	127.42	-0.02	-133.09	0.29	-3.03
48	47	0.0	-4064.12	14.60	0.55	8.308e+04	1.41e-03	-18.01
48	47	45.00	-4060.04	19.97	0.55	8.122e+04	27.61	-19.12
48	47	130.00	-4015.79	55.75	0.73	5.625e+04	90.97	5.56
48	47	215.00	-4008.82	147.12	-1.20	2.712e+04	-20.40	24.31
48	47	225.00	-3952.70	169.75	-1.14	-1.079e+05	-33.57	23.54
48	47	305.00	-4029.62	163.33	-2.12	-1.436e+05	-222.86	-10.76
48	47	340.00	-3928.82	110.68	3.78	6.553e+04	-42.14	-32.66
48	47	341.42	-3824.23	351.28	2.74	4.411e+04	-38.42	-26.20
48	47	345.22	-3425.05	665.45	3.01	2.247e+04	-22.53	-21.38
48	47	348.74	-2990.92	151.06	3.14	2.009e+04	-6.01	-27.31
48	47	351.27	-2692.47	-41.46	1.54	1.660e+04	0.10	-31.16
48	47	355.05	-2274.21	-16.49	0.25	1884.98	-0.48	-13.59
48	47	358.84	-1787.43	15.02	-0.05	337.10	0.35	-2.99
48	47	362.34	-1311.11	96.07	-0.03	1768.60	0.09	-0.43
48	47	368.25	-557.25	70.44	-2.58e-03	-523.09	0.12	-0.54
48	48	0.0	-4064.12	14.60	0.55	8.308e+04	1.41e-03	-18.01
48	48	45.00	-4060.04	19.97	0.55	8.122e+04	27.61	-19.12
48	48	130.00	-4015.79	55.75	0.73	5.625e+04	90.97	5.56
48	48	215.00	-4008.82	147.12	-1.20	2.712e+04	-20.40	24.31
48	48	225.00	-3952.70	169.75	-1.14	-1.079e+05	-33.57	23.54
48	48	305.00	-4029.62	163.33	-2.12	-1.436e+05	-222.86	-10.76
48	48	340.00	-3928.82	110.68	3.78	6.553e+04	-42.14	-32.66

RELAZIONE DI RESISTENZA AL FUOCO



48	48	341.42	-3824.23	351.28	2.74	4.411e+04	-38.42	-26.20
48	48	345.22	-3425.05	665.45	3.01	2.247e+04	-22.53	-21.38
48	48	348.74	-2990.92	151.06	3.14	2.009e+04	-6.01	-27.31
48	48	351.27	-2692.47	-41.46	1.54	1.660e+04	0.10	-31.16
48	48	355.05	-2274.21	-16.49	0.25	1884.98	-0.48	-13.59
48	48	358.84	-1787.43	15.02	-0.05	337.10	0.35	-2.99
48	48	362.34	-1311.11	96.07	-0.03	1768.60	0.09	-0.43
48	48	368.25	-557.25	70.44	-2.58e-03	-523.09	0.12	-0.54
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.079e+04	-41.46	-3.57	-4.887e+05	-449.08	-96.75
			-313.50	2360.38	7.93	2.118e+05	313.36	85.70

Macro	Tipo	Angolo 1-Z (gradi)
58	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
58	2	0.0	-1.052e+04	-82.74	-1.02	2.093e+05	-2.87e-03	-31.54
58	2	45.00	-1.045e+04	-55.51	-1.02	1.917e+05	-54.61	-47.90
58	2	130.00	-1.038e+04	68.32	3.77	8.277e+04	284.19	-21.74
58	2	215.00	-1.056e+04	413.70	-2.01	-3.939e+04	110.45	62.02
58	2	218.16	-1.052e+04	504.39	-1.84	-3.806e+05	105.84	63.54
58	2	221.58	-1.046e+04	548.61	-1.89	-3.787e+05	87.80	66.19
58	2	225.00	-1.043e+04	603.99	-2.54	-3.769e+05	87.02	71.55
58	2	305.00	-1.092e+04	787.95	-3.56	-5.416e+05	-247.90	27.81
58	2	340.00	-1.102e+04	642.40	4.05	7038.05	-53.56	-11.92
58	2	341.42	-1.071e+04	1511.15	3.62	-4.992e+04	-47.44	-7.36
58	2	345.22	-9416.96	2575.47	3.77	-6.246e+04	-28.28	2.31
58	2	349.03	-7960.80	778.92	4.06	-2.888e+04	-3.65	-2.58
58	2	351.27	-7123.34	134.59	1.77	-1.176e+04	2.18	-9.62
58	2	355.05	-5890.99	133.35	0.03	-2.834e+04	-0.47	6.52
58	2	358.84	-4513.18	127.64	-0.21	-1.208e+04	0.45	12.18
58	2	362.34	-3255.05	259.06	-0.08	43.90	-0.05	8.46
58	2	368.25	-1369.46	146.40	0.01	-620.74	-6.40e-03	2.26
58	38	0.0	-9454.35	402.10	0.48	1.852e+05	-7.96e-03	-35.35
58	38	45.00	-9440.48	421.75	0.48	1.631e+05	22.48	-42.18
58	38	130.00	-9416.46	498.12	2.38	8.840e+04	234.61	5.42
58	38	215.00	-9635.45	783.93	-2.46	-1.022e+04	11.64	68.75
58	38	218.16	-9602.03	912.28	-2.29	-3.218e+05	4.35	67.78
58	38	221.58	-9542.49	934.49	-2.11	-3.209e+05	-15.87	69.15
58	38	225.00	-9514.37	959.04	-2.75	-3.185e+05	-15.65	73.53
58	38	305.00	-1.006e+04	1117.83	-3.72	-5.064e+05	-356.51	-3.71
58	38	340.00	-1.015e+04	1011.19	6.12	-1.576e+04	-84.82	2.98
58	38	341.42	-9825.97	1776.42	5.78	-5.665e+04	-74.48	-3.17
58	38	345.22	-8628.26	2691.74	5.90	-6.544e+04	-44.76	-15.80
58	38	349.03	-7277.80	947.80	6.17	-3.078e+04	-8.62	-35.11
58	38	351.27	-6509.42	349.15	2.98	-1.467e+04	0.88	-44.03
58	38	355.05	-5371.21	337.13	0.38	-2.797e+04	-1.22	-13.07
58	38	358.84	-4104.66	298.90	-0.15	-1.167e+04	0.55	3.42
58	38	362.34	-2956.66	371.84	-0.07	-320.15	0.02	4.90
58	38	368.25	-1240.62	173.37	3.69e-03	-410.14	0.11	1.08
58	43	0.0	-3778.06	722.08	4.63	7.289e+04	-0.01	-39.17
58	43	45.00	-3860.26	718.64	4.63	6.188e+04	237.95	-17.14
58	43	130.00	-3836.81	690.77	-2.30	7.793e+04	23.87	79.60
58	43	215.00	-3865.49	730.53	-3.40	7.047e+04	-307.75	61.95
58	43	218.16	-3794.29	820.38	-3.30	-6.065e+04	-321.82	52.18
58	43	221.58	-3754.70	804.98	-2.49	-5.991e+04	-343.47	48.79
58	43	225.00	-3707.75	778.43	-2.52	-5.411e+04	-341.92	46.22
58	43	305.00	-4008.92	793.71	-2.82	-1.504e+05	-573.18	-107.19
58	43	340.00	-3917.43	809.38	10.37	3.470e+04	-146.44	18.06
58	43	341.42	-3736.78	996.47	10.03	3.635e+04	-127.89	-10.47
58	43	345.22	-3342.15	1244.96	10.15	1.668e+04	-77.12	-77.57
58	43	349.03	-2869.46	556.56	10.23	1.794e+04	-19.89	-129.06
58	43	351.27	-2603.74	347.58	5.54	1.667e+04	-2.89	-138.82
58	43	355.05	-2195.47	343.59	1.29	2811.27	-2.41	-72.47
58	43	358.84	-1725.57	323.46	0.06	896.22	1.12	-27.85
58	43	362.34	-1267.36	329.14	-0.06	1679.31	0.65	-9.98
58	43	368.25	-535.57	151.42	-0.03	-383.30	0.35	-2.43
58	45	0.0	-2193.50	746.93	4.30	3.917e+04	-0.01	-31.47



58	45	45.00	-2283.49	740.69	4.30	2.914e+04	221.15	-9.65
58	45	130.00	-2277.89	697.99	-2.51	5.703e+04	-10.82	74.71
58	45	215.00	-2303.73	697.40	-2.81	6.354e+04	-288.40	49.57
58	45	218.16	-2247.42	779.41	-2.74	-1.613e+04	-300.51	40.73
58	45	221.58	-2221.37	757.83	-2.01	-1.594e+04	-317.96	37.41
58	45	225.00	-2182.48	724.05	-2.00	-1.113e+04	-316.33	34.73
58	45	305.00	-2420.14	722.26	-2.18	-8.988e+04	-490.18	-98.99
58	45	340.00	-2335.92	752.22	8.92	1.239e+04	-126.82	20.00
58	45	341.42	-2198.85	831.57	8.69	2.226e+04	-110.63	-6.92
58	45	345.22	-1968.46	933.58	8.77	1.033e+04	-66.78	-69.26
58	45	349.03	-1687.25	473.86	8.82	1.173e+04	-17.63	-115.63
58	45	351.27	-1533.91	349.26	4.82	1.033e+04	-2.88	-123.84
58	45	355.05	-1292.25	341.22	1.17	2198.75	-2.18	-65.74
58	45	358.84	-1015.74	311.36	0.08	857.29	0.93	-26.15
58	45	362.34	-746.93	287.20	-0.04	1016.51	0.56	-9.70
58	45	368.25	-314.30	120.00	-0.03	-162.82	0.33	-2.46
58	47	0.0	-4147.89	-63.97	1.71	8.357e+04	-3.12e-03	-25.18
58	47	45.00	-4127.68	-57.19	1.71	8.103e+04	87.88	-19.93
58	47	130.00	-4055.77	-19.08	-0.08	5.052e+04	77.52	27.73
58	47	215.00	-4020.61	84.28	-2.05	1.599e+04	-115.99	38.74
58	47	218.16	-3963.20	104.43	-1.98	-1.186e+05	-123.50	34.24
58	47	221.58	-3921.27	120.23	-1.63	-1.168e+05	-137.33	33.19
58	47	225.00	-3890.63	138.68	-1.66	-1.130e+05	-137.41	32.32
58	47	305.00	-4042.36	181.03	-1.93	-1.554e+05	-304.91	-43.97
58	47	340.00	-3983.29	144.48	5.38	5.352e+04	-73.50	-5.04
58	47	341.42	-3865.55	410.35	5.01	3.523e+04	-64.52	-13.63
58	47	345.22	-3451.99	778.69	5.13	1.607e+04	-38.68	-37.60
58	47	349.03	-2971.02	203.26	5.24	1.566e+04	-9.12	-59.23
58	47	351.27	-2688.73	-7.98	2.75	1.595e+04	-0.62	-64.33
58	47	355.05	-2269.70	2.41	0.56	1638.93	-0.92	-31.71
58	47	358.84	-1783.93	27.80	-0.02	170.17	0.75	-10.78
58	47	362.34	-1308.23	104.54	-0.05	1699.69	0.44	-3.39
58	47	368.25	-556.23	78.93	-0.01	-542.66	0.13	-0.41
58	48	0.0	-4147.89	-63.97	1.71	8.357e+04	-3.12e-03	-25.18
58	48	45.00	-4127.68	-57.19	1.71	8.103e+04	87.88	-19.93
58	48	130.00	-4055.77	-19.08	-0.08	5.052e+04	77.52	27.73
58	48	215.00	-4020.61	84.28	-2.05	1.599e+04	-115.99	38.74
58	48	218.16	-3963.20	104.43	-1.98	-1.186e+05	-123.50	34.24
58	48	221.58	-3921.27	120.23	-1.63	-1.168e+05	-137.33	33.19
58	48	225.00	-3890.63	138.68	-1.66	-1.130e+05	-137.41	32.32
58	48	305.00	-4042.36	181.03	-1.93	-1.554e+05	-304.91	-43.97
58	48	340.00	-3983.29	144.48	5.38	5.352e+04	-73.50	-5.04
58	48	341.42	-3865.55	410.35	5.01	3.523e+04	-64.52	-13.63
58	48	345.22	-3451.99	778.69	5.13	1.607e+04	-38.68	-37.60
58	48	349.03	-2971.02	203.26	5.24	1.566e+04	-9.12	-59.23
58	48	351.27	-2688.73	-7.98	2.75	1.595e+04	-0.62	-64.33
58	48	355.05	-2269.70	2.41	0.56	1638.93	-0.92	-31.71
58	48	358.84	-1783.93	27.80	-0.02	170.17	0.75	-10.78
58	48	362.34	-1308.23	104.54	-0.05	1699.69	0.44	-3.39
58	48	368.25	-556.23	78.93	-0.01	-542.66	0.13	-0.41
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.102e+04	-82.74	-3.72	-5.416e+05	-573.18	-138.82
			-314.30	2691.74	10.37	2.093e+05	284.19	79.60

Macro	Tipo	Angolo 1-Z (gradi)
53	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
53	2	0.0	-1.060e+04	-58.92	1.28	1.961e+05	1.69e-03	31.43
53	2	45.00	-1.052e+04	-31.51	1.28	1.776e+05	67.85	49.39
53	2	130.00	-1.043e+04	96.81	-3.95	6.899e+04	-288.26	27.53
53	2	215.00	-1.057e+04	453.46	1.81	-5.630e+04	-133.71	-59.69
53	2	218.33	-1.052e+04	543.99	1.64	-3.581e+05	-129.56	-61.58
53	2	221.67	-1.045e+04	586.73	1.73	-3.566e+05	-112.49	-64.58
53	2	225.00	-1.043e+04	642.03	2.52	-3.550e+05	-112.29	-71.01
53	2	305.00	-1.089e+04	846.40	3.67	-5.211e+05	233.46	-33.08
53	2	340.00	-1.096e+04	702.55	-3.78	2.678e+04	49.75	13.09
53	2	341.42	-1.066e+04	1527.08	-3.37	-3.409e+04	44.10	7.05

RELAZIONE DI RESISTENZA AL FUOCO



53	2	345.22	-9431.77	2585.02	-3.51	-6.431e+04	26.27	-5.38
53	2	349.03	-7973.40	859.67	-3.82	-3.387e+04	3.01	-2.27
53	2	351.27	-7112.89	187.19	-1.62	-1.165e+04	-2.43	5.25
53	2	355.05	-5893.63	173.99	0.04	-2.968e+04	0.22	-8.66
53	2	358.84	-4525.01	175.15	0.22	-1.655e+04	-0.37	-13.87
53	2	362.62	-3168.55	263.58	0.06	-4230.56	0.14	-8.08
53	2	367.97	-1430.29	128.48	-0.02	123.80	-6.71e-03	-2.07
53	38	0.0	-9519.96	430.54	-0.11	1.766e+05	6.72e-03	33.60
53	38	45.00	-9503.82	451.27	-0.11	1.527e+05	-4.00	42.36
53	38	130.00	-9453.13	530.04	-2.62	7.722e+04	-238.11	1.16
53	38	215.00	-9631.30	824.31	2.21	-2.506e+04	-38.45	-65.53
53	38	218.33	-9589.91	946.11	2.05	-3.006e+05	-31.79	-65.16
53	38	221.67	-9531.44	969.38	1.92	-2.999e+05	-12.83	-66.94
53	38	225.00	-9502.50	995.35	2.69	-2.978e+05	-13.57	-72.36
53	38	305.00	-1.002e+04	1171.94	3.78	-4.857e+05	333.86	-3.24
53	38	340.00	-1.008e+04	1059.23	-5.69	4456.29	78.71	-1.02
53	38	341.42	-9777.59	1781.16	-5.37	-4.109e+04	69.15	2.88
53	38	345.22	-8643.04	2695.35	-5.49	-6.744e+04	41.56	11.63
53	38	349.03	-7290.34	1029.98	-5.76	-3.588e+04	7.70	28.27
53	38	351.27	-6498.79	405.13	-2.75	-1.463e+04	-1.15	37.51
53	38	355.05	-5372.70	383.86	-0.29	-2.916e+04	0.93	9.81
53	38	358.84	-4116.48	353.16	0.16	-1.609e+04	-0.43	-5.67
53	38	362.62	-2876.96	380.20	0.05	-4344.96	0.12	-4.95
53	38	367.97	-1294.57	160.57	-6.78e-03	310.77	-0.12	-0.85
53	43	0.0	-3806.59	746.42	-4.10	7.189e+04	0.01	33.07
53	43	45.00	-3886.77	744.41	-4.10	5.892e+04	-211.52	13.16
53	43	130.00	-3851.90	714.59	2.02	7.150e+04	-22.91	-73.33
53	43	215.00	-3865.37	752.04	3.10	5.981e+04	281.85	-56.89
53	43	218.33	-3790.14	832.21	3.02	-5.713e+04	295.19	-48.32
53	43	221.67	-3750.60	819.83	2.28	-5.641e+04	315.06	-45.34
53	43	225.00	-3704.43	795.60	2.34	-5.083e+04	313.39	-43.17
53	43	305.00	-4001.48	812.01	2.65	-1.482e+05	531.18	97.89
53	43	340.00	-3909.57	813.05	-9.59	3.527e+04	135.31	-15.58
53	43	341.42	-3734.58	1002.60	-9.25	3.529e+04	118.23	10.05
53	43	345.22	-3340.12	1255.96	-9.37	1.560e+04	71.33	71.34
53	43	349.03	-2867.58	574.77	-9.46	1.684e+04	18.53	118.49
53	43	351.27	-2600.65	368.07	-5.12	1.578e+04	2.77	128.01
53	43	355.05	-2188.65	369.93	-1.18	2700.14	2.14	66.99
53	43	358.84	-1719.50	346.30	-0.06	843.13	-0.89	24.70
53	43	362.62	-1233.01	326.58	0.04	906.21	-0.40	8.48
53	43	367.97	-563.75	150.48	0.03	-271.35	-0.34	2.69
53	45	0.0	-2211.21	766.97	-3.86	4.066e+04	0.01	26.26
53	45	45.00	-2299.20	762.16	-3.86	2.883e+04	-199.52	6.14
53	45	130.00	-2284.06	717.06	2.28	5.376e+04	11.58	-69.74
53	45	215.00	-2298.25	713.42	2.57	5.702e+04	267.54	-45.40
53	45	218.33	-2239.48	785.51	2.52	-1.417e+04	279.03	-37.57
53	45	221.67	-2213.24	767.27	1.84	-1.395e+04	295.05	-34.59
53	45	225.00	-2175.08	735.84	1.84	-9287.19	293.36	-32.18
53	45	305.00	-2411.91	733.39	2.03	-8.819e+04	455.04	91.29
53	45	340.00	-2329.20	749.17	-8.27	1.305e+04	117.47	-17.83
53	45	341.42	-2197.47	830.74	-8.04	2.139e+04	102.53	6.60
53	45	345.22	-1967.08	938.72	-8.12	9489.96	61.92	64.11
53	45	349.03	-1685.95	487.66	-8.17	1.089e+04	16.50	106.83
53	45	351.27	-1531.69	365.64	-4.47	9664.60	2.79	114.79
53	45	355.05	-1286.87	363.05	-1.07	2195.94	1.96	61.14
53	45	358.84	-1011.46	330.98	-0.08	846.94	-0.73	23.53
53	45	362.62	-726.06	287.40	0.03	594.62	-0.35	8.35
53	45	367.97	-330.80	121.85	0.03	-95.00	-0.32	2.69
53	47	0.0	-4175.55	-51.37	-1.45	7.720e+04	2.46e-03	22.65
53	47	45.00	-4155.62	-44.65	-1.45	7.425e+04	-74.58	18.58
53	47	130.00	-4078.85	-5.42	-0.06	4.252e+04	-77.60	-23.99
53	47	215.00	-4034.34	99.69	1.89	5520.21	100.81	-36.01
53	47	218.33	-3972.48	120.57	1.82	-1.144e+05	107.97	-32.15
53	47	221.67	-3931.20	135.47	1.51	-1.127e+05	120.82	-31.34
53	47	225.00	-3900.79	153.79	1.57	-1.091e+05	120.73	-30.80
53	47	305.00	-4044.32	200.11	1.87	-1.541e+05	283.28	39.02
53	47	340.00	-3980.40	162.29	-4.99	5.336e+04	67.92	5.93
53	47	341.42	-3863.62	428.86	-4.62	3.478e+04	59.67	13.27
53	47	345.22	-3450.56	794.32	-4.74	1.545e+04	35.77	34.24
53	47	349.03	-2969.75	215.10	-4.85	1.497e+04	8.43	53.70
53	47	351.27	-2686.67	3.15	-2.54	1.538e+04	0.55	58.81
53	47	355.05	-2266.07	14.52	-0.50	1376.13	0.76	28.94
53	47	358.84	-1779.45	36.49	0.03	65.91	-0.61	9.08
53	47	362.62	-1274.36	97.93	0.04	818.33	-0.29	2.78
53	47	367.97	-585.63	71.90	0.01	-430.25	-0.13	0.57

RELAZIONE DI RESISTENZA AL FUOCO



53	48	0.0	-4175.55	-51.37	-1.45	7.720e+04	2.46e-03	22.65
53	48	45.00	-4155.62	-44.65	-1.45	7.425e+04	-74.58	18.58
53	48	130.00	-4078.85	-5.42	-0.06	4.252e+04	-77.60	-23.99
53	48	215.00	-4034.34	99.69	1.89	5520.21	100.81	-36.01
53	48	218.33	-3972.48	120.57	1.82	-1.144e+05	107.97	-32.15
53	48	221.67	-3931.20	135.47	1.51	-1.127e+05	120.82	-31.34
53	48	225.00	-3900.79	153.79	1.57	-1.091e+05	120.73	-30.80
53	48	305.00	-4044.32	200.11	1.87	-1.541e+05	283.28	39.02
53	48	340.00	-3980.40	162.29	-4.99	5.336e+04	67.92	5.93
53	48	341.42	-3863.62	428.86	-4.62	3.478e+04	59.67	13.27
53	48	345.22	-3450.56	794.32	-4.74	1.545e+04	35.77	34.24
53	48	349.03	-2969.75	215.10	-4.85	1.497e+04	8.43	53.70
53	48	351.27	-2686.67	3.15	-2.54	1.538e+04	0.55	58.81
53	48	355.05	-2266.07	14.52	-0.50	1376.13	0.76	28.94
53	48	358.84	-1779.45	36.49	0.03	65.91	-0.61	9.08
53	48	362.62	-1274.36	97.93	0.04	818.33	-0.29	2.78
53	48	367.97	-585.63	71.90	0.01	-430.25	-0.13	0.57
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.096e+04	-58.92	-9.59	-5.211e+05	-288.26	-73.33
			-330.80	2695.35	3.78	1.961e+05	531.18	128.01

Macro	Tipo	Angolo 1-Z (gradi)
117	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
117	2	0.0	-1.034e+04	141.41	3.72	1.847e+05	-9.96e-03	22.31
117	2	45.00	-1.030e+04	165.21	3.72	1.687e+05	194.53	54.88
117	2	130.00	-1.031e+04	286.93	-5.72	7.263e+04	-325.28	77.04
117	2	215.00	-1.053e+04	593.14	0.08	-4.356e+04	-341.20	-35.89
117	2	218.33	-1.049e+04	680.78	-0.08	-3.442e+05	-344.80	-42.69
117	2	221.67	-1.043e+04	703.15	0.46	-3.433e+05	-336.74	-48.22
117	2	225.00	-1.042e+04	741.94	1.62	-3.445e+05	-336.86	-59.00
117	2	305.00	-1.087e+04	721.07	3.70	-5.078e+05	25.66	-97.79
117	2	340.00	-1.087e+04	507.05	0.17	5.381e+04	-14.90	47.36
117	2	341.42	-1.061e+04	1305.45	1.21	-1.410e+04	-11.05	20.15
117	2	345.22	-9398.81	2310.01	0.93	-4.853e+04	-7.74	-40.64
117	2	349.03	-8011.78	597.92	0.56	-3.152e+04	-7.05	-65.32
117	2	351.27	-7188.77	29.63	0.89	-1.952e+04	-4.83	-62.81
117	2	355.05	-5927.49	76.92	0.72	-3.364e+04	-0.61	-47.96
117	2	358.84	-4525.34	73.71	0.28	-1.437e+04	0.19	-29.58
117	2	362.62	-3176.27	192.82	0.03	-3354.25	0.56	-14.11
117	2	367.97	-1436.69	84.31	-0.04	230.08	0.12	-2.70
117	38	0.0	-9247.59	664.99	2.78	1.587e+05	-0.01	20.42
117	38	45.00	-9282.84	681.27	2.78	1.374e+05	144.93	45.23
117	38	130.00	-9326.43	766.57	-4.44	7.725e+04	-258.44	56.23
117	38	215.00	-9586.29	1016.37	0.34	-1.111e+04	-242.14	-32.94
117	38	218.33	-9546.07	1140.70	0.20	-2.851e+05	-243.81	-36.73
117	38	221.67	-9495.12	1141.86	0.54	-2.851e+05	-234.72	-40.98
117	38	225.00	-9482.25	1151.10	1.64	-2.855e+05	-236.00	-50.49
117	38	305.00	-1.000e+04	1099.39	3.76	-4.722e+05	121.22	-61.67
117	38	340.00	-1.001e+04	934.98	-1.63	2.839e+04	10.10	47.54
117	38	341.42	-9725.85	1626.66	-0.50	-2.332e+04	10.77	27.13
117	38	345.22	-8611.95	2487.48	-0.80	-5.314e+04	5.34	-16.47
117	38	349.03	-7326.67	829.62	-1.14	-3.414e+04	-2.98	-30.11
117	38	351.27	-6570.52	307.22	-0.12	-2.263e+04	-3.79	-26.95
117	38	355.05	-5402.19	338.89	0.40	-3.303e+04	-0.25	-26.11
117	38	358.84	-4113.18	293.32	0.22	-1.381e+04	-0.10	-18.57
117	38	362.62	-2882.24	339.40	0.03	-3429.82	0.33	-9.14
117	38	367.97	-1300.08	127.89	-0.03	435.72	0.03	-1.40
117	45	0.0	-2099.78	882.72	-1.94	2.660e+04	-1.81e-03	13.63
117	45	45.00	-2211.22	875.50	-1.94	1.562e+04	-101.96	2.38
117	45	130.00	-2225.99	850.31	1.40	4.893e+04	26.52	-39.11
117	45	215.00	-2253.72	842.88	1.53	6.309e+04	181.31	-20.38
117	45	218.33	-2196.44	923.51	1.50	-6730.65	188.23	-13.52
117	45	221.67	-2173.71	896.68	1.04	-6866.09	198.74	-11.63
117	45	225.00	-2139.22	860.22	1.18	-2810.42	196.25	-10.98
117	45	305.00	-2391.93	788.83	2.25	-8.360e+04	382.19	71.67
117	45	340.00	-2293.33	814.50	-6.76	1.943e+04	83.76	32.98

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



117	45	341.42	-2167.34	871.99	-5.56	2.657e+04	74.71	38.61
117	45	345.22	-1945.66	958.45	-5.87	1.334e+04	44.10	63.35
117	45	349.03	-1674.01	518.47	-5.97	1.308e+04	11.16	88.51
117	45	351.27	-1524.25	412.78	-3.24	1.105e+04	1.32	92.34
117	45	355.05	-1284.56	414.84	-0.76	2655.20	0.94	50.45
117	45	358.84	-1009.92	373.53	-0.04	1139.70	-0.93	21.33
117	45	362.62	-725.43	318.59	0.04	722.88	-0.54	8.61
117	45	367.97	-330.91	128.80	0.02	-45.24	-0.20	2.24
117	47	0.0	-4083.18	11.08	-0.25	7.396e+04	-1.87e-03	16.75
117	47	45.00	-4076.89	16.73	-0.25	7.171e+04	-12.69	19.32
117	47	130.00	-4025.94	53.89	-0.88	4.398e+04	-91.12	-1.98
117	47	215.00	-4008.29	144.60	1.05	1.000e+04	5.67	-25.36
117	47	218.33	-3946.76	165.04	0.98	-1.091e+05	9.11	-23.80
117	47	221.67	-3907.99	173.92	0.87	-1.076e+05	17.82	-24.19
117	47	225.00	-3884.10	187.31	1.13	-1.051e+05	17.28	-25.91
117	47	305.00	-4026.03	166.40	2.18	-1.494e+05	215.02	8.17
117	47	340.00	-3927.96	106.44	-3.60	6.546e+04	40.01	32.81
117	47	341.42	-3822.86	355.08	-2.56	4.414e+04	36.52	26.51
117	47	345.22	-3424.80	697.96	-2.83	2.207e+04	21.19	21.00
117	47	349.03	-2960.82	140.48	-3.00	1.832e+04	4.01	26.74
117	47	351.27	-2686.17	-51.26	-1.47	1.706e+04	-0.55	29.47
117	47	355.05	-2271.28	-21.89	-0.20	1709.74	0.32	12.08
117	47	358.84	-1784.18	8.67	0.06	210.48	-0.43	1.99
117	47	362.62	-1277.96	78.47	0.03	885.61	-0.13	-0.10
117	47	367.97	-587.29	59.15	1.45e-03	-410.44	-0.05	-0.01
117	48	0.0	-4083.18	11.08	-0.25	7.396e+04	-1.87e-03	16.75
117	48	45.00	-4076.89	16.73	-0.25	7.171e+04	-12.69	19.32
117	48	130.00	-4025.94	53.89	-0.88	4.398e+04	-91.12	-1.98
117	48	215.00	-4008.29	144.60	1.05	1.000e+04	5.67	-25.36
117	48	218.33	-3946.76	165.04	0.98	-1.091e+05	9.11	-23.80
117	48	221.67	-3907.99	173.92	0.87	-1.076e+05	17.82	-24.19
117	48	225.00	-3884.10	187.31	1.13	-1.051e+05	17.28	-25.91
117	48	305.00	-4026.03	166.40	2.18	-1.494e+05	215.02	8.17
117	48	340.00	-3927.96	106.44	-3.60	6.546e+04	40.01	32.81
117	48	341.42	-3822.86	355.08	-2.56	4.414e+04	36.52	26.51
117	48	345.22	-3424.80	697.96	-2.83	2.207e+04	21.19	21.00
117	48	349.03	-2960.82	140.48	-3.00	1.832e+04	4.01	26.74
117	48	351.27	-2686.17	-51.26	-1.47	1.706e+04	-0.55	29.47
117	48	355.05	-2271.28	-21.89	-0.20	1709.74	0.32	12.08
117	48	358.84	-1784.18	8.67	0.06	210.48	-0.43	1.99
117	48	362.62	-1277.96	78.47	0.03	885.61	-0.13	-0.10
117	48	367.97	-587.29	59.15	1.45e-03	-410.44	-0.05	-0.01
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.087e+04	-51.26	-6.76	-5.078e+05	-344.80	-97.79
			-330.91	2487.48	3.76	1.847e+05	382.19	92.34

Macro	Tipo	Angolo 1-Z (gradi)
89	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
89	2	0.0	-6140.13	99.80	0.51	9.302e+04	0.02	1.95
89	2	45.00	-6147.81	96.87	0.51	9.055e+04	22.02	4.50
89	2	130.00	-5921.17	95.39	0.83	7.183e+04	84.60	6.03
89	2	225.00	-5634.77	88.16	-0.08	6.000e+04	73.53	-4.03
89	2	305.00	-5366.84	71.56	-2.57	5.200e+04	-147.07	-10.71
89	2	340.00	-5063.63	120.97	2.45	6.486e+04	-33.54	-8.18
89	2	343.76	-4574.39	234.30	2.49	1.238e+04	-21.81	-3.57
89	2	347.51	-3894.55	207.90	2.19	1.195e+04	-8.16	-6.12
89	2	351.27	-3252.90	144.02	1.04	8070.29	1.85	-12.40
89	2	355.70	-2502.15	168.91	0.02	-8642.22	0.36	-3.76
89	2	360.13	-1640.16	116.73	-0.13	-4863.76	0.50	2.75
89	2	364.56	-800.53	50.53	-0.04	-1292.48	-0.03	1.65
89	11	0.0	-2940.50	-67.73	236.30	5.981e+04	-7.55	6249.79
89	11	45.00	-2934.53	-71.90	236.30	6.140e+04	1.174e+04	6982.87
89	11	130.00	-2845.55	-74.75	128.03	4.144e+04	2.312e+04	3298.58
89	11	225.00	-2708.19	-75.00	9.41	2.435e+04	2.408e+04	-2167.93
89	11	305.00	-2370.91	-72.07	-104.23	2.616e+04	1.505e+04	-5972.99
89	11	340.00	-2000.32	-46.81	-238.78	3.850e+04	6106.07	-6433.14

RELAZIONE DI RESISTENZA AL FUOCO



89	11	343.76	-1823.39	4.09	-233.79	1.321e+04	5127.29	-6326.27
89	11	347.51	-1561.94	6.12	-232.54	1.053e+04	4242.10	-6466.65
89	11	351.27	-1310.03	1.92	-236.21	7672.08	3353.06	-6343.47
89	11	355.70	-1013.97	4.13	-221.72	738.14	2048.68	-4620.02
89	11	360.13	-681.30	1.50	-172.57	-130.40	1000.36	-2674.25
89	11	364.56	-341.53	-0.19	-94.85	-125.00	287.78	-1108.79
89	45	0.0	-1773.20	824.58	-0.08	7.400e+04	1.70e-03	6.69
89	45	45.00	-1846.01	821.54	-0.08	5.570e+04	-3.82	4.71
89	45	130.00	-1715.07	788.24	-0.86	3.814e+04	-74.94	-6.48
89	45	225.00	-1522.72	715.22	-1.01	2.566e+04	-174.06	-20.68
89	45	305.00	-1335.82	660.10	-1.11	1.812e+04	-286.08	-34.08
89	45	340.00	-1168.37	700.29	4.91	1.747e+04	-62.04	-39.86
89	45	343.76	-1044.37	665.47	4.66	9675.43	-40.95	-32.29
89	45	347.51	-895.04	574.91	3.94	8377.68	-18.44	-39.30
89	45	351.27	-755.39	472.66	2.17	6107.79	-1.39	-49.68
89	45	355.70	-593.02	379.62	0.55	335.79	-0.61	-29.34
89	45	360.13	-399.28	262.11	0.06	-411.39	0.53	-11.25
89	45	364.56	-198.55	132.95	-1.22e-03	-222.14	0.40	-4.52
89	46	0.0	-2960.48	881.14	-0.14	9.639e+04	0.01	4.49
89	46	45.00	-3038.30	878.84	-0.14	7.682e+04	-11.71	1.66
89	46	130.00	-2919.86	847.33	-0.31	5.347e+04	-34.08	-9.70
89	46	225.00	-2755.48	775.39	-0.62	3.474e+04	-91.34	-22.08
89	46	305.00	-2593.67	719.14	-1.53	2.195e+04	-231.88	-30.50
89	46	340.00	-2407.84	773.55	3.97	2.434e+04	-51.45	-32.45
89	46	343.76	-2158.32	766.46	3.85	5132.39	-33.87	-25.84
89	46	347.51	-1836.86	665.40	3.29	5290.87	-14.65	-31.15
89	46	351.27	-1535.93	543.19	1.78	3214.05	-0.53	-38.13
89	46	355.70	-1182.03	452.76	0.39	-5073.65	-0.22	-23.04
89	46	360.13	-771.52	310.58	7.85e-03	-2849.32	0.59	-7.87
89	46	364.56	-373.80	152.87	-0.01	-787.57	0.36	-3.34
89	47	0.0	-2833.10	-9.08	0.48	3.560e+04	3.31e-03	5.03
89	47	45.00	-2831.37	-12.44	0.48	3.563e+04	29.16	8.32
89	47	130.00	-2637.53	-16.15	-0.24	3.031e+04	-0.03	9.69
89	47	225.00	-2373.30	-23.05	-0.67	3.095e+04	-74.79	-0.95
89	47	305.00	-2127.78	-33.70	-1.32	3.297e+04	-199.06	-13.93
89	47	340.00	-1923.90	-18.14	3.38	3.797e+04	-42.60	-18.06
89	47	343.76	-1746.41	24.59	3.20	1.597e+04	-28.00	-13.01
89	47	347.51	-1496.59	20.37	2.73	1.349e+04	-12.28	-17.66
89	47	351.27	-1259.10	2.39	1.42	1.032e+04	0.05	-27.88
89	47	355.70	-985.51	16.95	0.26	1616.22	-0.33	-12.91
89	47	360.13	-666.61	14.79	-8.60e-03	5.86	0.28	-3.26
89	47	364.56	-334.93	7.98	-8.73e-03	-121.37	0.04	-0.61
89	48	0.0	-2833.10	-9.08	0.48	3.560e+04	3.31e-03	5.03
89	48	45.00	-2831.37	-12.44	0.48	3.563e+04	29.16	8.32
89	48	130.00	-2637.53	-16.15	-0.24	3.031e+04	-0.03	9.69
89	48	225.00	-2373.30	-23.05	-0.67	3.095e+04	-74.79	-0.95
89	48	305.00	-2127.78	-33.70	-1.32	3.297e+04	-199.06	-13.93
89	48	340.00	-1923.90	-18.14	3.38	3.797e+04	-42.60	-18.06
89	48	343.76	-1746.41	24.59	3.20	1.597e+04	-28.00	-13.01
89	48	347.51	-1496.59	20.37	2.73	1.349e+04	-12.28	-17.66
89	48	351.27	-1259.10	2.39	1.42	1.032e+04	0.05	-27.88
89	48	355.70	-985.51	16.95	0.26	1616.22	-0.33	-12.91
89	48	360.13	-666.61	14.79	-8.60e-03	5.86	0.28	-3.26
89	48	364.56	-334.93	7.98	-8.73e-03	-121.37	0.04	-0.61

M_S

N memb.

V memb.

V orto

M memb.

M orto

T

-6147.81
-198.55

-75.00
881.14

-238.78
236.30

-8642.22
9.639e+04

-286.08
2.408e+04

-6466.65
6982.87

Macro	Tipo	Angolo 1-Z (gradi)
60	Setto	0.0

M_S

Cmb

Z

N memb.

V memb.

V orto

M memb.

M orto

T

cm

daN

daN

daN

daN cm

daN cm

daN cm

60

2

0.0

-6322.85

-57.03

-0.44

8.670e+04

-0.02

0.63

60

2

45.00

-6313.91

-55.86

-0.44

8.692e+04

-19.04

-2.35

60

2

130.00

-6074.65

-31.53

-0.97

6.944e+04

-92.69

-6.33

60

2

222.05

-5786.74

9.62

0.16

5.794e+04

-70.32

4.13

60

2

222.79

-5741.16

9.54

0.18

4.810e+04

-70.39

4.19

60

2

223.52

-5695.99

8.92

0.17

4.194e+04

-70.14

4.48

RELAZIONE DI RESISTENZA AL FUOCO



60	2	224.26	-5651.68	8.33	0.20	3.936e+04	-65.44	4.25
60	2	225.00	-5604.26	9.74	1.72	4.032e+04	-70.51	-6.26
60	2	225.63	-5565.35	8.89	3.24	4.379e+04	-73.97	4.26
60	2	226.25	-5537.12	9.15	3.20	4.794e+04	-65.35	5.84
60	2	226.88	-5530.79	11.67	2.95	4.761e+04	-62.85	9.00
60	2	305.00	-5532.40	35.58	2.95	4.640e+04	185.07	14.79
60	2	340.00	-5287.95	100.60	-3.09	4.616e+04	41.41	12.33
60	2	343.76	-4728.78	208.12	-3.05	6835.26	26.74	7.07
60	2	347.51	-4027.27	191.51	-2.67	6362.34	10.57	7.20
60	2	351.27	-3358.57	142.26	-1.29	2625.26	-1.80	15.99
60	2	355.70	-2566.49	171.51	-0.06	-1.150e+04	-0.03	3.76
60	2	360.13	-1671.57	118.72	0.12	-5967.69	-0.34	-3.65
60	2	364.56	-811.01	50.58	0.02	-1541.89	0.14	-2.27
60	23	0.0	-2934.27	-54.49	-234.21	6.075e+04	7.52	-6258.74
60	23	45.00	-2929.48	-58.52	-234.21	6.205e+04	-1.161e+04	-6993.55
60	23	130.00	-2858.70	-60.19	-131.83	4.076e+04	-2.333e+04	-3306.22
60	23	222.05	-2753.32	-58.48	-11.14	2.142e+04	-2.442e+04	2019.80
60	23	222.79	-2708.41	-58.76	42.56	1.170e+04	-2.444e+04	2095.44
60	23	223.52	-2663.14	-59.22	84.15	5475.84	-2.448e+04	2182.38
60	23	224.26	-2615.18	-60.16	107.67	2763.22	-2.455e+04	2262.66
60	23	225.00	-2541.82	-62.05	112.96	5316.72	-2.416e+04	2523.00
60	23	225.63	-2479.70	-60.01	109.24	1.006e+04	-2.384e+04	2387.71
60	23	226.25	-2444.57	-59.42	106.65	1.531e+04	-2.398e+04	2430.17
60	23	226.88	-2423.06	-58.72	106.51	1.913e+04	-2.396e+04	2529.60
60	23	305.00	-2413.36	-54.80	106.51	2.119e+04	-1.501e+04	5983.62
60	23	340.00	-2058.23	-29.35	238.21	2.613e+04	-6096.49	6431.74
60	23	343.76	-1841.33	14.76	233.01	1.081e+04	-5121.59	6315.68
60	23	347.51	-1571.28	16.46	231.58	9712.79	-4241.68	6450.44
60	23	351.27	-1315.94	13.67	235.83	7239.95	-3357.37	6333.38
60	23	355.70	-1016.80	12.74	221.86	616.96	-2049.34	4603.82
60	23	360.13	-682.67	7.15	172.61	-144.81	-1000.38	2661.96
60	23	364.56	-342.15	2.51	94.79	-127.99	-287.38	1103.31
60	45	0.0	-1781.96	806.18	0.05	7.575e+04	1.26e-03	-7.16
60	45	45.00	-1852.23	804.60	0.05	5.759e+04	0.57	-5.01
60	45	130.00	-1721.03	782.35	1.07	3.958e+04	89.00	6.88
60	45	222.05	-1524.99	722.98	1.25	2.710e+04	209.83	21.24
60	45	222.79	-1491.68	722.00	1.24	1.937e+04	210.26	21.49
60	45	223.52	-1458.09	720.07	1.12	1.433e+04	211.03	22.35
60	45	224.26	-1422.78	714.21	0.78	1.199e+04	215.71	23.10
60	45	225.00	-1375.92	687.75	1.37	1.325e+04	212.40	17.38
60	45	225.63	-1338.01	659.76	2.01	1.618e+04	209.38	23.52
60	45	226.25	-1303.26	645.32	1.55	2.177e+04	216.37	24.24
60	45	226.88	-1237.80	613.51	1.19	3.793e+04	216.82	23.86
60	45	305.00	-1349.76	619.83	1.19	1.842e+04	333.30	36.17
60	45	340.00	-1209.82	681.21	-5.83	1.093e+04	74.43	40.46
60	45	343.76	-1062.03	635.38	-5.54	9002.56	49.00	35.62
60	45	347.51	-910.26	556.81	-4.69	7565.29	22.39	44.72
60	45	351.27	-766.49	459.72	-2.60	5592.11	2.05	58.25
60	45	355.70	-599.68	368.32	-0.68	157.46	0.93	34.41
60	45	360.13	-402.85	253.44	-0.09	-446.10	-0.52	13.23
60	45	364.56	-200.19	128.54	-6.92e-03	-225.67	-0.41	5.15
60	46	0.0	-3049.86	812.62	0.17	9.670e+04	-6.99e-03	-3.82
60	46	45.00	-3119.79	813.26	0.17	7.812e+04	12.51	-0.90
60	46	130.00	-2995.35	802.03	0.39	5.486e+04	41.06	10.24
60	46	222.05	-2825.54	760.75	0.79	3.648e+04	114.33	22.83
60	46	222.79	-2791.92	759.86	0.79	2.869e+04	114.45	23.01
60	46	223.52	-2758.29	757.80	0.69	2.367e+04	114.90	23.69
60	46	224.26	-2723.93	751.71	0.48	2.138e+04	119.40	24.01
60	46	225.00	-2680.78	725.49	1.36	2.236e+04	115.59	17.00
60	46	225.63	-2646.46	697.55	2.27	2.510e+04	112.42	24.23
60	46	226.25	-2614.91	683.25	1.98	3.013e+04	119.53	25.16
60	46	226.88	-2559.40	652.38	1.70	4.354e+04	120.58	25.32
60	46	305.00	-2677.95	671.51	1.70	2.225e+04	272.69	33.43
60	46	340.00	-2528.09	752.29	-4.73	1.613e+04	61.64	34.26
60	46	343.76	-2243.79	734.28	-4.57	3339.81	40.49	28.85
60	46	347.51	-1914.26	648.49	-3.90	2328.11	17.92	34.72
60	46	351.27	-1598.18	536.89	-2.13	275.13	1.05	44.18
60	46	355.70	-1220.75	448.37	-0.49	-6647.93	0.56	26.16
60	46	360.13	-790.88	306.61	-0.03	-3436.82	-0.52	8.71
60	46	364.56	-380.70	150.33	9.21e-04	-916.89	-0.31	3.46
60	47	0.0	-2849.31	-52.02	-0.54	3.297e+04	-1.50e-03	-4.76
60	47	45.00	-2843.10	-54.50	-0.54	3.376e+04	-33.63	-8.26
60	47	130.00	-2648.41	-52.58	0.34	2.855e+04	4.66	-10.13
60	47	222.05	-2385.58	-48.55	0.86	2.895e+04	97.28	0.72
60	47	222.79	-2351.00	-48.73	0.87	2.147e+04	97.71	0.88

RELAZIONE DI RESISTENZA AL FUOCO



60	47	223.52	-2316.30	-48.98	0.81	1.670e+04	98.42	1.38
60	47	224.26	-2280.74	-49.08	0.63	1.464e+04	102.32	1.89
60	47	225.00	-2238.36	-48.35	1.35	1.582e+04	99.21	-4.15
60	47	225.63	-2202.72	-49.08	2.10	1.878e+04	96.77	2.21
60	47	226.25	-2175.91	-49.10	1.79	2.287e+04	103.21	3.08
60	47	226.88	-2155.05	-48.64	1.45	2.702e+04	104.19	4.67
60	47	305.00	-2146.45	-49.71	1.45	2.873e+04	238.47	15.75
60	47	340.00	-1974.29	-30.21	-4.13	2.635e+04	52.15	19.35
60	47	343.76	-1760.42	7.95	-3.89	1.347e+04	34.08	16.17
60	47	347.51	-1502.71	6.16	-3.31	1.253e+04	15.23	21.38
60	47	351.27	-1261.53	-9.00	-1.74	9879.13	0.21	34.58
60	47	355.70	-985.61	8.46	-0.35	1563.82	0.57	15.95
60	47	360.13	-666.45	9.19	-8.96e-03	6.43	-0.26	4.34
60	47	364.56	-334.86	5.20	3.09e-03	-119.98	-0.04	0.92
60	48	0.0	-2849.31	-52.02	-0.54	3.297e+04	-1.50e-03	-4.76
60	48	45.00	-2843.10	-54.50	-0.54	3.376e+04	-33.63	-8.26
60	48	130.00	-2648.41	-52.58	0.34	2.855e+04	4.66	-10.13
60	48	222.05	-2385.58	-48.55	0.86	2.895e+04	97.28	0.72
60	48	222.79	-2351.00	-48.73	0.87	2.147e+04	97.71	0.88
60	48	223.52	-2316.30	-48.98	0.81	1.670e+04	98.42	1.38
60	48	224.26	-2280.74	-49.08	0.63	1.464e+04	102.32	1.89
60	48	225.00	-2238.36	-48.35	1.35	1.582e+04	99.21	-4.15
60	48	225.63	-2202.72	-49.08	2.10	1.878e+04	96.77	2.21
60	48	226.25	-2175.91	-49.10	1.79	2.287e+04	103.21	3.08
60	48	226.88	-2155.05	-48.64	1.45	2.702e+04	104.19	4.67
60	48	305.00	-2146.45	-49.71	1.45	2.873e+04	238.47	15.75
60	48	340.00	-1974.29	-30.21	-4.13	2.635e+04	52.15	19.35
60	48	343.76	-1760.42	7.95	-3.89	1.347e+04	34.08	16.17
60	48	347.51	-1502.71	6.16	-3.31	1.253e+04	15.23	21.38
60	48	351.27	-1261.53	-9.00	-1.74	9879.13	0.21	34.58
60	48	355.70	-985.61	8.46	-0.35	1563.82	0.57	15.95
60	48	360.13	-666.45	9.19	-8.96e-03	6.43	-0.26	4.34
60	48	364.56	-334.86	5.20	3.09e-03	-119.98	-0.04	0.92

M_S

N memb.

V memb.

V orto

M memb.

M orto

T

-6322.85
-200.19

-62.05
813.26

-234.21
238.21

-1.150e+04
9.670e+04

-2.455e+04
333.30

-6993.55
6450.44

Macro	Tipo	Angolo 1-Z (gradi)
35	Setto	0.0

M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
35	13	0.0	-311.46	213.04	-0.06	-2.103e+04	-1.80	-2.30
35	13	45.00	-311.46	213.04	-0.06	-1.145e+04	-0.60	-1.23
35	13	130.00	-201.63	308.32	0.01	1.128e+04	0.63	-5.82e-03
35	13	225.00	-30.99	57.78	1.57e-04	1.134e+04	0.57	1.04
35	13	305.00	-36.00	-185.88	0.01	-1802.86	-2.26	3.30
35	13	351.27	-41.28	3.10	0.10	1254.41	0.15	5.24
35	13	351.27	-41.28	3.10	0.10	1254.41	0.15	5.24
35	14	0.0	-394.78	217.51	-0.13	-2.213e+04	-4.13	-5.42
35	14	45.00	-394.78	217.51	-0.13	-1.236e+04	-1.72	-3.06
35	14	130.00	-301.87	320.19	0.02	1.207e+04	1.09	-0.36
35	14	225.00	-126.39	69.87	-3.56e-03	1.308e+04	0.52	1.70
35	14	305.00	-122.35	-173.02	0.02	601.24	-4.74	4.95
35	14	351.27	-122.22	33.04	0.14	5766.73	0.21	7.12
35	14	351.27	-122.22	33.04	0.14	5766.73	0.21	7.12
35	18	0.0	-368.47	-73.15	-0.21	3167.74	-6.19	-8.59
35	18	45.00	-368.47	-73.15	-0.21	-118.81	-4.71	-5.70
35	18	130.00	-499.32	-104.66	0.03	-2208.56	0.45	-2.48
35	18	225.00	-548.65	-28.29	-0.02	-921.93	-1.92	1.76
35	18	305.00	-504.93	47.89	0.03	3010.45	-14.24	5.98
35	18	351.27	-332.21	204.21	0.25	1.807e+04	0.25	7.50
35	18	351.27	-332.21	204.21	0.25	1.807e+04	0.25	7.50
35	44	0.0	-331.30	-10.89	90.06	-2884.97	3030.43	-2193.96
35	44	45.00	-331.30	-10.89	90.06	-3374.16	968.51	-4592.31
35	44	130.00	-403.25	-18.05	-35.11	-533.75	-2010.00	-3800.55
35	44	225.00	-407.06	-17.48	-41.12	-70.28	-6364.62	-526.45
35	44	305.00	-378.51	-15.77	52.83	-592.91	-1.234e+04	6859.58
35	44	351.27	-226.32	142.62	188.01	1.146e+04	197.78	1.058e+04

RELAZIONE DI RESISTENZA AL FUOCO



35	44	351.27	-226.32	142.62	188.01	1.146e+04	197.78	1.058e+04
35	47	0.0	-213.79	-8.74	-0.04	-1427.62	-1.31	-2.00
35	47	45.00	-213.79	-8.74	-0.04	-1820.16	-1.45	-1.57
35	47	130.00	-258.11	-15.73	7.09e-03	-244.09	0.11	-1.01
35	47	225.00	-258.46	-15.28	-0.01	-166.92	-0.94	0.77
35	47	305.00	-237.31	-14.15	0.01	-697.76	-6.97	2.81
35	47	351.27	-134.43	94.77	0.14	7014.66	0.12	3.82
35	47	351.27	-134.43	94.77	0.14	7014.66	0.12	3.82
35	48	0.0	-213.79	-8.74	-0.04	-1427.62	-1.31	-2.00
35	48	45.00	-213.79	-8.74	-0.04	-1820.16	-1.45	-1.57
35	48	130.00	-258.11	-15.73	7.09e-03	-244.09	0.11	-1.01
35	48	225.00	-258.46	-15.28	-0.01	-166.92	-0.94	0.77
35	48	305.00	-237.31	-14.15	0.01	-697.76	-6.97	2.81
35	48	351.27	-134.43	94.77	0.14	7014.66	0.12	3.82
35	48	351.27	-134.43	94.77	0.14	7014.66	0.12	3.82
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-548.65	-185.88	-41.12	-2.213e+04	-1.234e+04	-4592.31
			-30.99	320.19	188.01	1.807e+04	3030.43	1.058e+04

Macro	Tipo	Angolo 1-Z (gradi)
34	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
34	2	0.0	-969.55	-3.67	-0.20	1.734e+05	1.05e-06	16.19
34	2	45.00	-969.55	-3.67	-0.20	1.733e+05	-2.75	4.42
34	2	130.00	-1165.94	-3.94	0.13	1.986e+05	7.31	0.41
34	2	225.00	-1152.24	0.70	0.27	1.949e+05	21.15	-1.03
34	2	305.00	-1038.35	-1.00	-0.27	1.651e+05	-80.42	36.63
34	2	351.27	-343.43	-191.62	0.30	-1.605e+04	0.32	-10.86
34	25	0.0	-410.50	-200.27	-0.03	2.053e+04	0.0	2.11
34	25	45.00	-410.50	-200.27	-0.03	1.154e+04	-0.13	0.08
34	25	130.00	-312.65	-302.59	0.03	2.304e+04	2.43	-0.91
34	25	225.00	-137.96	-54.24	0.03	5.751e+04	2.72	-0.80
34	25	305.00	-161.51	184.94	-0.03	6.656e+04	-15.99	4.97
34	25	351.27	-33.25	-25.42	0.11	-691.23	0.21	-4.91
34	26	0.0	-629.39	-206.78	-0.10	6.720e+04	0.0	8.32
34	26	45.00	-629.39	-206.78	-0.10	5.792e+04	-0.54	1.79
34	26	130.00	-574.56	-311.73	0.06	7.645e+04	3.77	-0.70
34	26	225.00	-387.60	-62.14	0.12	1.080e+05	9.08	-1.11
34	26	305.00	-377.34	177.25	-0.10	1.065e+05	-36.27	15.39
34	26	351.27	-117.63	-58.09	0.16	-4745.52	0.28	-7.58
34	44	0.0	-582.49	8.66	85.56	7.270e+04	3234.38	578.81
34	44	45.00	-582.49	8.66	85.56	7.309e+04	879.53	2709.93
34	44	130.00	-724.07	9.03	-30.02	8.849e+04	-1756.60	2506.42
34	44	225.00	-770.69	11.34	-25.18	1.037e+05	-5096.96	263.59
34	44	305.00	-746.19	9.32	19.27	1.039e+05	-1.531e+04	-4721.02
34	44	351.27	-228.19	-145.82	206.37	-1.006e+04	215.62	-1.067e+04
34	47	0.0	-398.45	7.49	-0.05	5.927e+04	0.0	2.79
34	47	45.00	-398.45	7.49	-0.05	5.961e+04	-1.47	0.76
34	47	130.00	-481.36	11.46	0.06	6.795e+04	3.45	7.78e-03
34	47	225.00	-490.42	13.06	0.07	6.979e+04	6.27	-0.30
34	47	305.00	-456.60	11.43	-0.09	6.373e+04	-29.69	11.72
34	47	351.27	-130.55	-95.65	0.16	-5928.22	0.15	-4.15
34	48	0.0	-398.45	7.49	-0.05	5.927e+04	0.0	2.79
34	48	45.00	-398.45	7.49	-0.05	5.961e+04	-1.47	0.76
34	48	130.00	-481.36	11.46	0.06	6.795e+04	3.45	7.78e-03
34	48	225.00	-490.42	13.06	0.07	6.979e+04	6.27	-0.30
34	48	305.00	-456.60	11.43	-0.09	6.373e+04	-29.69	11.72
34	48	351.27	-130.55	-95.65	0.16	-5928.22	0.15	-4.15
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1165.94	-311.73	-30.02	-1.605e+04	-1.531e+04	-1.067e+04
			-33.25	184.94	206.37	1.986e+05	3234.38	2709.93

Macro	Tipo	Angolo 1-Z (gradi)
42	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
42	2	0.0	-528.53	-124.02	0.07	-4158.56	0.0	-12.04
42	2	45.00	-528.53	-124.02	0.07	1391.29	4.42	-13.27
42	2	130.00	-788.71	-119.42	0.04	5473.87	7.38	-10.76
42	2	225.00	-1065.77	-117.45	-0.05	1.010e+04	-0.18	-8.76
42	2	305.00	-1291.00	-127.26	0.35	1.496e+04	20.34	20.82
42	2	340.00	-1781.42	-164.54	-0.66	-3.173e+04	-19.27	336.87
42	2	342.42	-1373.12	431.72	-1.05	-3.486e+04	-12.68	256.99
42	2	345.38	-760.08	1414.99	-0.80	-2.430e+04	-8.82	171.77
42	2	348.34	-242.58	1226.16	-0.69	-1.559e+04	-3.64	75.57
42	45	0.0	-320.73	76.04	0.03	5748.03	0.0	-1.43
42	45	45.00	-320.73	76.04	0.03	2345.48	1.52	-1.53
42	45	130.00	-328.11	33.72	0.02	-961.40	3.75	-0.78
42	45	225.00	-338.46	-32.80	-0.10	1449.68	-6.94	-2.07
42	45	305.00	-414.56	-78.67	0.50	5685.63	46.51	-2.65
42	45	340.00	-391.13	-385.86	-0.54	-1.714e+04	-3.00	53.80
42	45	342.42	-238.26	-181.84	0.03	-9063.91	-0.84	30.53
42	45	345.38	-107.68	238.69	-0.04	-4681.40	-1.29	18.57
42	45	348.34	-6.31	352.91	-0.05	-1803.58	-0.53	7.02
42	47	0.0	-235.42	-42.75	0.03	-1259.98	0.0	-3.90
42	47	45.00	-235.42	-42.75	0.03	652.98	1.62	-4.36
42	47	130.00	-329.27	-41.24	0.03	1811.17	3.86	-3.55
42	47	225.00	-419.06	-40.39	-0.05	3289.69	-2.36	-3.82
42	47	305.00	-490.64	-43.35	0.37	4830.73	32.51	4.78
42	47	340.00	-634.08	-55.46	-0.51	-1.280e+04	-7.17	126.60
42	47	342.42	-474.91	129.42	-0.27	-1.176e+04	-4.13	90.99
42	47	345.38	-264.58	476.55	-0.25	-8212.90	-3.27	59.05
42	47	348.34	-86.36	422.36	-0.23	-5387.39	-1.31	25.32
42	48	0.0	-235.42	-42.75	0.03	-1259.98	0.0	-3.90
42	48	45.00	-235.42	-42.75	0.03	652.98	1.62	-4.36
42	48	130.00	-329.27	-41.24	0.03	1811.17	3.86	-3.55
42	48	225.00	-419.06	-40.39	-0.05	3289.69	-2.36	-3.82
42	48	305.00	-490.64	-43.35	0.37	4830.73	32.51	4.78
42	48	340.00	-634.08	-55.46	-0.51	-1.280e+04	-7.17	126.60
42	48	342.42	-474.91	129.42	-0.27	-1.176e+04	-4.13	90.99
42	48	345.38	-264.58	476.55	-0.25	-8212.90	-3.27	59.05
42	48	348.34	-86.36	422.36	-0.23	-5387.39	-1.31	25.32
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1781.42	-385.86	-1.05	-3.486e+04	-19.27	-13.27
			-6.31	1414.99	0.50	1.496e+04	46.51	336.87

Macro	Tipo	Angolo 1-Z (gradi)
39	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
39	2	0.0	-392.94	-160.84	-0.05	-8042.42	0.0	-20.17
39	2	45.00	-392.94	-160.84	-0.05	-844.73	-4.25	-25.13
39	2	130.00	-647.85	-153.07	0.15	6187.51	9.73	-26.48
39	2	225.00	-956.50	-151.41	0.16	1.335e+04	21.01	-12.67
39	2	305.00	-1195.07	-155.87	-0.88	2.023e+04	-113.20	57.19
39	2	340.00	-1376.93	-223.57	-0.20	-3.912e+04	-35.44	620.58
39	2	342.42	-974.98	-228.70	-3.12	-2.888e+04	-27.44	513.53
39	2	345.38	-515.53	563.33	-2.31	-1.824e+04	-14.80	353.03
39	2	348.34	-150.06	652.51	-1.86	-1.120e+04	-8.74	184.12
39	45	0.0	-273.69	78.43	0.02	5377.81	0.0	-5.45
39	45	45.00	-273.69	78.43	0.02	1868.24	1.09	-6.28
39	45	130.00	-258.52	36.45	0.03	-1183.78	3.23	-6.02
39	45	225.00	-249.03	-30.12	0.10	1400.29	12.24	-3.35
39	45	305.00	-307.78	-75.20	-0.31	5731.22	-28.30	15.01
39	45	340.00	-306.95	-245.29	0.02	-1.175e+04	-7.93	138.82
39	45	342.42	-199.40	-184.03	-0.70	-6918.02	-6.12	114.41
39	45	345.38	-95.14	106.58	-0.52	-3703.88	-3.30	79.75

RELAZIONE DI RESISTENZA AL FUOCO



39	45	348.34	-16.19	202.26	-0.41	-1738.06	-1.95	41.09
39	47	0.0	-176.99	-60.44	-0.02	-3031.26	0.0	-8.14
39	47	45.00	-176.99	-60.44	-0.02	-326.75	-1.51	-10.16
39	47	130.00	-270.01	-57.48	0.07	2218.69	4.50	-10.86
39	47	225.00	-376.04	-56.78	0.10	4899.12	12.86	-5.30
39	47	305.00	-456.03	-58.09	-0.42	7447.13	-47.63	23.87
39	47	340.00	-501.97	-82.12	-0.05	-1.501e+04	-13.98	245.24
39	47	342.42	-347.95	-107.61	-1.25	-1.008e+04	-10.88	203.48
39	47	345.38	-185.19	182.66	-0.92	-6351.23	-5.86	140.46
39	47	348.34	-55.44	226.91	-0.74	-3965.15	-3.50	73.25
39	48	0.0	-176.99	-60.44	-0.02	-3031.26	0.0	-8.14
39	48	45.00	-176.99	-60.44	-0.02	-326.75	-1.51	-10.16
39	48	130.00	-270.01	-57.48	0.07	2218.69	4.50	-10.86
39	48	225.00	-376.04	-56.78	0.10	4899.12	12.86	-5.30
39	48	305.00	-456.03	-58.09	-0.42	7447.13	-47.63	23.87
39	48	340.00	-501.97	-82.12	-0.05	-1.501e+04	-13.98	245.24
39	48	342.42	-347.95	-107.61	-1.25	-1.008e+04	-10.88	203.48
39	48	345.38	-185.19	182.66	-0.92	-6351.23	-5.86	140.46
39	48	348.34	-55.44	226.91	-0.74	-3965.15	-3.50	73.25
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1376.93	-245.29	-3.12	-3.912e+04	-113.20	-26.48
			-16.19	652.51	0.16	2.023e+04	21.01	620.58

Macro	Tipo	Angolo 1-Z (gradi)
65	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
65	2	0.0	-392.95	-159.84	0.05	-7979.76	0.0	20.48
65	2	45.00	-392.95	-159.84	0.05	-827.02	4.17	25.45
65	2	130.00	-646.58	-152.11	-0.15	6152.41	-9.62	26.73
65	2	225.00	-953.27	-150.43	-0.16	1.326e+04	-20.80	13.03
65	2	305.00	-1190.25	-154.89	0.86	2.010e+04	111.73	-57.01
65	2	340.00	-1372.71	-223.14	0.21	-3.901e+04	35.73	-625.57
65	2	342.43	-972.85	-222.98	3.10	-2.894e+04	27.61	-517.85
65	2	345.38	-514.66	565.61	2.28	-1.836e+04	15.16	-355.47
65	2	348.34	-148.04	653.25	1.84	-1.125e+04	8.70	-183.14
65	45	0.0	-276.92	78.82	-0.01	5395.54	0.0	5.19
65	45	45.00	-276.92	78.82	-0.01	1868.20	-0.65	6.08
65	45	130.00	-261.06	36.84	-0.03	-1201.99	-2.97	6.04
65	45	225.00	-249.94	-29.71	-0.10	1378.41	-12.20	3.54
65	45	305.00	-306.99	-74.79	0.28	5712.66	25.23	-14.44
65	45	340.00	-305.96	-244.54	0.04	-1.169e+04	7.85	-138.23
65	45	342.43	-198.94	-182.75	0.68	-6906.99	6.10	-114.17
65	45	345.38	-95.53	105.68	0.51	-3742.70	3.29	-78.40
65	45	348.34	-15.70	200.95	0.41	-1752.36	1.93	-40.85
65	47	0.0	-178.57	-60.03	0.02	-3014.27	0.0	8.07
65	47	45.00	-178.57	-60.03	0.02	-327.82	1.74	10.13
65	47	130.00	-270.93	-57.09	-0.07	2198.63	-4.34	10.94
65	47	225.00	-375.68	-56.37	-0.10	4868.17	-12.85	5.49
65	47	305.00	-454.47	-57.68	0.41	7409.41	45.61	-23.56
65	47	340.00	-500.38	-81.97	0.07	-1.496e+04	14.01	-245.96
65	47	342.43	-347.18	-105.86	1.22	-1.011e+04	10.88	-204.06
65	47	345.38	-184.85	183.29	0.90	-6392.15	5.97	-140.29
65	47	348.34	-54.71	227.11	0.73	-3982.42	3.45	-72.42
65	48	0.0	-178.57	-60.03	0.02	-3014.27	0.0	8.07
65	48	45.00	-178.57	-60.03	0.02	-327.82	1.74	10.13
65	48	130.00	-270.93	-57.09	-0.07	2198.63	-4.34	10.94
65	48	225.00	-375.68	-56.37	-0.10	4868.17	-12.85	5.49
65	48	305.00	-454.47	-57.68	0.41	7409.41	45.61	-23.56
65	48	340.00	-500.38	-81.97	0.07	-1.496e+04	14.01	-245.96
65	48	342.43	-347.18	-105.86	1.22	-1.011e+04	10.88	-204.06
65	48	345.38	-184.85	183.29	0.90	-6392.15	5.97	-140.29
65	48	348.34	-54.71	227.11	0.73	-3982.42	3.45	-72.42
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1372.71	-244.54	-0.16	-3.901e+04	-20.80	-625.57
			-15.70	653.25	3.10	2.010e+04	111.73	26.73

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Macro	Tipo	Angolo 1-Z (gradi)
61	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
61	2	0.0	-526.80	-125.31	-0.07	-4251.87	0.0	11.78
61	2	45.00	-526.80	-125.31	-0.07	1355.89	-4.52	12.93
61	2	130.00	-788.26	-120.64	-0.04	5513.97	-7.32	10.40
61	2	225.00	-1067.70	-118.69	0.05	1.020e+04	0.63	8.81
61	2	305.00	-1294.68	-128.38	-0.41	1.512e+04	-25.65	-19.19
61	2	340.00	-1783.49	-169.02	0.87	-3.201e+04	18.83	-330.99
61	2	342.43	-1375.08	412.76	1.04	-3.510e+04	13.00	-255.19
61	2	345.38	-759.83	1395.95	0.84	-2.441e+04	8.18	-162.13
61	2	348.34	-240.63	1218.34	0.74	-1.562e+04	3.35	-76.92
61	45	0.0	-317.07	75.19	-0.02	5701.95	0.0	1.09
61	45	45.00	-317.07	75.19	-0.02	2337.28	-1.09	1.23
61	45	130.00	-325.60	32.91	-0.03	-925.73	-3.51	0.71
61	45	225.00	-338.40	-33.62	0.10	1510.97	7.11	2.29
61	45	305.00	-416.68	-79.41	-0.55	5759.58	-51.52	3.58
61	45	340.00	-393.48	-384.68	0.69	-1.731e+04	2.94	-54.18
61	45	342.43	-239.97	-189.22	-0.05	-9167.86	1.11	-32.33
61	45	345.38	-107.64	231.46	0.06	-4700.98	1.13	-14.93
61	45	348.34	-5.96	350.68	0.08	-1812.15	0.41	-7.90
61	47	0.0	-233.20	-43.41	-0.02	-1300.26	0.0	3.67
61	47	45.00	-233.20	-43.41	-0.02	642.19	-1.40	4.15
61	47	130.00	-327.90	-41.87	-0.03	1835.20	-3.72	3.45
61	47	225.00	-419.41	-41.03	0.05	3336.97	2.60	3.92
61	47	305.00	-492.52	-43.94	-0.40	4892.55	-35.86	-4.03
61	47	340.00	-635.79	-57.30	0.62	-1.291e+04	7.04	-125.17
61	47	342.43	-476.14	122.27	0.27	-1.182e+04	4.30	-90.88
61	47	345.38	-264.99	469.61	0.27	-8232.61	2.98	-55.18
61	47	348.34	-86.06	419.57	0.25	-5387.15	1.21	-26.41
61	48	0.0	-233.20	-43.41	-0.02	-1300.26	0.0	3.67
61	48	45.00	-233.20	-43.41	-0.02	642.19	-1.40	4.15
61	48	130.00	-327.90	-41.87	-0.03	1835.20	-3.72	3.45
61	48	225.00	-419.41	-41.03	0.05	3336.97	2.60	3.92
61	48	305.00	-492.52	-43.94	-0.40	4892.55	-35.86	-4.03
61	48	340.00	-635.79	-57.30	0.62	-1.291e+04	7.04	-125.17
61	48	342.43	-476.14	122.27	0.27	-1.182e+04	4.30	-90.88
61	48	345.38	-264.99	469.61	0.27	-8232.61	2.98	-55.18
61	48	348.34	-86.06	419.57	0.25	-5387.15	1.21	-26.41
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1783.49	-384.68	-0.55	-3.510e+04	-51.52	-330.99
			-5.96	1395.95	1.04	1.512e+04	18.83	12.93

Macro	Tipo	Angolo 1-Z (gradi)
1	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
1	14	0.0	-596.85	100.53	0.02	-6572.75	0.0	5.12
1	14	45.00	-596.85	100.53	0.02	-2057.75	0.30	5.53
1	14	130.00	-494.34	69.73	0.05	977.46	5.11	3.71
1	14	225.00	-400.54	22.83	0.08	932.87	12.50	2.09
1	14	305.00	-349.51	-22.10	0.17	-1516.79	18.08	-10.40
1	14	340.00	-346.95	-48.12	0.11	-2532.63	46.43	-31.03
1	28	0.0	-875.98	8.66	4.68	2813.00	0.0	213.01
1	28	45.00	-875.98	8.66	4.68	3201.92	284.88	161.26
1	28	130.00	-751.63	9.08	1.00	558.35	420.52	-163.70
1	28	225.00	-657.79	8.94	-6.08	-460.25	-44.36	-372.22
1	28	305.00	-588.39	8.51	-19.89	-795.40	-1806.36	257.55
1	28	340.00	-577.89	8.45	-32.31	114.49	-3024.83	1897.34

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1	44	0.0	-429.93	-17.75	-15.74	-462.92	0.0	-663.57
1	44	45.00	-429.93	-17.75	-15.74	-1260.27	-968.17	-492.54
1	44	130.00	-414.64	-17.93	-2.91	-2212.33	-1371.03	566.90
1	44	225.00	-415.16	-18.01	20.81	-2343.59	222.31	1256.37
1	44	305.00	-419.01	-18.23	67.64	-2148.67	6131.56	-943.95
1	44	340.00	-444.63	-18.64	108.54	-874.46	1.043e+04	-6565.92
1	45	0.0	-151.04	-24.68	-15.75	-890.30	0.0	-668.13
1	45	45.00	-151.04	-24.68	-15.75	-1998.57	-967.46	-497.25
1	45	130.00	-171.96	-24.87	-2.95	-2476.83	-1374.64	564.04
1	45	225.00	-199.39	-24.86	20.75	-2635.05	213.74	1254.48
1	45	305.00	-222.09	-25.00	67.50	-2644.91	6119.27	-934.88
1	45	340.00	-243.01	-25.62	108.44	-2017.94	1.039e+04	-6539.11
1	47	0.0	-448.16	-7.58	-0.04	1779.23	0.0	5.88
1	47	45.00	-448.16	-7.58	-0.04	1438.80	-3.74	5.30
1	47	130.00	-389.89	-7.27	0.06	-438.06	3.35	1.74
1	47	225.00	-348.31	-7.29	0.06	-1448.03	7.71	1.95
1	47	305.00	-317.16	-7.63	0.15	-2030.75	10.85	-8.32
1	47	340.00	-307.00	-8.10	0.09	-1920.66	37.86	-22.95
1	48	0.0	-448.16	-7.58	-0.04	1779.23	0.0	5.88
1	48	45.00	-448.16	-7.58	-0.04	1438.80	-3.74	5.30
1	48	130.00	-389.89	-7.27	0.06	-438.06	3.35	1.74
1	48	225.00	-348.31	-7.29	0.06	-1448.03	7.71	1.95
1	48	305.00	-317.16	-7.63	0.15	-2030.75	10.85	-8.32
1	48	340.00	-307.00	-8.10	0.09	-1920.66	37.86	-22.95

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-875.98	-48.12	-32.31	-6572.75	-3024.83	-6565.92
	-151.04	100.53	108.54	3201.92	1.043e+04	1897.34

Macro	Tipo	Angolo 1-Z (gradi)
8	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
8	2	0.0	-5239.62	45.06	3.89	-1.872e+04	0.0	-21.09
8	2	45.00	-5239.62	45.06	3.89	-1.669e+04	-65.98	-38.53
8	2	130.00	-4493.49	45.06	12.75	-1.641e+04	1794.17	-61.67
8	2	225.00	-3506.64	44.95	10.94	-1.888e+04	3704.42	-26.08
8	2	305.00	-2465.65	45.54	-14.36	-2.131e+04	1541.99	22.04
8	2	340.00	-1674.33	160.98	-18.35	3.281e+04	73.10	42.75
8	12	0.0	-3955.94	621.82	2.24	-1.646e+05	0.0	-24.85
8	12	45.00	-3955.94	621.82	2.24	-1.367e+05	-44.40	-38.45
8	12	130.00	-3396.62	621.54	7.53	-9.276e+04	1055.00	-47.05
8	12	225.00	-2660.08	621.54	6.51	-5.267e+04	2192.96	-7.02
8	12	305.00	-1892.57	621.99	-8.50	-2.111e+04	915.21	34.51
8	12	340.00	-1314.12	689.81	-10.71	2.691e+04	39.95	46.34
8	25	0.0	-2148.44	-518.28	0.65	1.224e+05	0.0	4.68
8	25	45.00	-2148.44	-518.28	0.65	9.905e+04	-14.01	2.88
8	25	130.00	-1843.77	-518.02	2.21	6.037e+04	306.41	-5.97
8	25	225.00	-1446.37	-518.25	1.95	2.273e+04	644.57	-5.42
8	25	305.00	-1040.03	-517.24	-2.37	-6654.09	285.35	1.57
8	25	340.00	-699.90	-339.54	-3.45	1.559e+04	17.93	-1.17
8	44	0.0	-3710.58	118.24	-497.29	-3.710e+04	-4.45e-06	-37.47
8	44	45.00	-3710.58	118.24	-497.29	-3.178e+04	-2.163e+04	-65.60
8	44	130.00	-3461.54	118.23	-253.37	-2.897e+04	-4.077e+04	-98.85
8	44	225.00	-2878.29	118.08	131.80	-3.064e+04	-2.943e+04	-71.14
8	44	305.00	-1925.81	118.99	538.56	-2.488e+04	8913.10	238.31
8	44	340.00	-1316.83	283.26	740.37	2.319e+04	4.812e+04	2101.25
8	47	0.0	-2595.60	5.75	1.15	-4016.62	0.0	-9.32
8	47	45.00	-2595.60	5.75	1.15	-3757.85	-30.54	-16.87
8	47	130.00	-2226.09	5.77	4.07	-4903.19	562.89	-26.09
8	47	225.00	-1740.88	5.67	3.58	-7247.34	1185.55	-7.27
8	47	305.00	-1239.98	6.26	-4.47	-9237.87	518.09	15.71
8	47	340.00	-852.16	109.90	-6.03	1.919e+04	26.71	18.63
8	48	0.0	-2595.60	5.75	1.15	-4016.62	0.0	-9.32
8	48	45.00	-2595.60	5.75	1.15	-3757.85	-30.54	-16.87
8	48	130.00	-2226.09	5.77	4.07	-4903.19	562.89	-26.09
8	48	225.00	-1740.88	5.67	3.58	-7247.34	1185.55	-7.27
8	48	305.00	-1239.98	6.26	-4.47	-9237.87	518.09	15.71
8	48	340.00	-852.16	109.90	-6.03	1.919e+04	26.71	18.63

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-5239.62	-518.28	-497.29	-1.645e+05	-4.077e+04	-98.85
	-699.90	689.81	740.37	1.224e+05	4.812e+04	2101.25

Macro	Tipo	Angolo 1-Z (gradi)
41	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
41	2	0.0	-2885.13	86.34	1.67	962.99	0.0	50.49
41	2	45.00	-2885.13	86.34	1.67	4844.98	-120.48	85.35
41	2	130.00	-2256.81	86.15	7.90	1.169e+04	703.85	134.65
41	2	225.00	-1514.31	86.31	9.11	2.276e+04	1970.55	60.29
41	2	305.00	-898.10	87.77	-4.55	3.098e+04	1895.66	-293.80
41	2	340.00	-612.54	46.07	-31.22	1.728e+04	364.63	-443.25
41	12	0.0	-2073.98	194.81	0.87	-2.130e+04	0.0	30.85
41	12	45.00	-2073.98	194.81	0.87	-1.255e+04	-82.90	56.80
41	12	130.00	-1639.58	194.09	4.78	2141.80	413.63	98.24
41	12	225.00	-1132.92	194.24	5.72	1.819e+04	1203.59	41.36
41	12	305.00	-706.79	194.04	-2.39	2.986e+04	1219.65	-210.00
41	12	340.00	-471.55	18.26	-19.98	1.559e+04	234.35	-302.98
41	13	0.0	-1052.30	164.75	0.15	-2.167e+04	0.0	12.73
41	13	45.00	-1052.30	164.75	0.15	-1.427e+04	-37.42	26.00
41	13	130.00	-848.76	164.10	1.56	-1936.82	122.62	48.89
41	13	225.00	-618.33	164.19	2.11	1.024e+04	407.04	17.23
41	13	305.00	-418.88	163.33	-0.39	1.905e+04	479.39	-101.21
41	13	340.00	-271.30	-7.76	-7.73	9592.74	92.62	-135.09
41	34	0.0	-2181.97	61.87	24.01	-37.37	-5.23e-06	41.06
41	34	45.00	-2181.97	61.87	24.01	2744.64	556.10	69.00
41	34	130.00	-1675.22	61.71	12.66	8217.80	1386.60	106.15
41	34	225.00	-1109.77	61.81	-1.93	1.699e+04	1889.50	46.78
41	34	305.00	-705.12	62.60	-38.43	2.352e+04	-637.81	-171.94
41	34	340.00	-472.98	17.10	-161.32	1.285e+04	-7846.44	-652.51
41	47	0.0	-1349.23	40.29	0.41	357.12	0.0	23.63
41	47	45.00	-1349.23	40.29	0.41	2168.65	-53.10	39.39
41	47	130.00	-1075.25	40.20	2.69	5509.20	225.67	59.91
41	47	225.00	-758.83	40.27	3.35	1.081e+04	684.88	21.38
41	47	305.00	-490.01	40.61	-1.15	1.482e+04	730.32	-128.10
41	47	340.00	-324.68	-2.47	-11.87	8345.14	141.96	-183.26
41	48	0.0	-1349.23	40.29	0.41	357.12	0.0	23.63
41	48	45.00	-1349.23	40.29	0.41	2168.65	-53.10	39.39
41	48	130.00	-1075.25	40.20	2.69	5509.20	225.67	59.91
41	48	225.00	-758.83	40.27	3.35	1.081e+04	684.88	21.38
41	48	305.00	-490.01	40.61	-1.15	1.482e+04	730.32	-128.10
41	48	340.00	-324.68	-2.47	-11.87	8345.14	141.96	-183.26

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-2885.13	-7.76	-161.32	-2.167e+04	-7846.44	-652.51
	-271.30	194.81	24.01	3.098e+04	1970.55	134.65

Macro	Tipo	Angolo 1-Z (gradi)
46	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
46	2	0.0	-2882.01	-87.12	1.65	-1125.30	0.0	-47.97
46	2	45.00	-2882.01	-87.12	1.65	-5042.03	-121.68	-81.43
46	2	130.00	-2253.69	-86.93	7.89	-1.172e+04	702.03	-129.37
46	2	225.00	-1510.78	-87.09	9.12	-2.247e+04	1967.69	-58.44
46	2	305.00	-894.39	-88.45	-4.39	-3.044e+04	1902.21	280.91
46	2	340.00	-608.69	-45.34	-30.96	-1.709e+04	384.96	428.00
46	24	0.0	-2072.94	-193.85	0.86	2.097e+04	0.0	-29.48
46	24	45.00	-2072.94	-193.85	0.86	1.226e+04	-84.21	-54.63

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



46	24	130.00	-1638.39	-193.14	4.77	-2232.03	412.26	-95.24
46	24	225.00	-1131.18	-193.29	5.74	-1.801e+04	1202.54	-40.32
46	24	305.00	-704.70	-193.03	-2.29	-2.949e+04	1225.37	202.35
46	24	340.00	-469.09	-18.21	-19.85	-1.547e+04	247.08	294.04
46	25	0.0	-1052.78	-164.33	0.14	2.153e+04	0.0	-12.33
46	25	45.00	-1052.78	-164.33	0.14	1.414e+04	-38.36	-25.36
46	25	130.00	-849.04	-163.68	1.56	1882.82	121.96	-48.00
46	25	225.00	-618.16	-163.78	2.12	-1.020e+04	407.33	-16.91
46	25	305.00	-418.35	-162.89	-0.35	-1.895e+04	482.92	98.82
46	25	340.00	-270.37	7.22	-7.71	-9582.33	97.15	132.33
46	34	0.0	-2180.74	-63.82	23.98	163.05	4.22e-06	-39.50
46	34	45.00	-2180.74	-63.82	23.98	-2706.27	554.60	-66.60
46	34	130.00	-1674.02	-63.65	12.65	-8188.79	1384.67	-102.95
46	34	225.00	-1108.21	-63.76	-1.92	-1.686e+04	1887.31	-45.53
46	34	305.00	-703.29	-64.47	-38.34	-2.331e+04	-635.03	165.02
46	34	340.00	-470.61	-17.47	-161.15	-1.280e+04	-7835.09	644.13
46	47	0.0	-1349.07	-44.26	0.40	127.80	0.0	-22.57
46	47	45.00	-1349.07	-44.26	0.40	-1862.17	-53.93	-37.84
46	47	130.00	-1074.90	-44.15	2.69	-5401.20	224.97	-58.06
46	47	225.00	-758.04	-44.23	3.36	-1.081e+04	684.71	-20.71
46	47	305.00	-488.90	-44.50	-1.08	-1.488e+04	734.52	123.85
46	47	340.00	-323.25	1.96	-11.81	-8404.86	149.05	178.11
46	48	0.0	-1349.07	-44.26	0.40	127.80	0.0	-22.57
46	48	45.00	-1349.07	-44.26	0.40	-1862.17	-53.93	-37.84
46	48	130.00	-1074.90	-44.15	2.69	-5401.20	224.97	-58.06
46	48	225.00	-758.04	-44.23	3.36	-1.081e+04	684.71	-20.71
46	48	305.00	-488.90	-44.50	-1.08	-1.488e+04	734.52	123.85
46	48	340.00	-323.25	1.96	-11.81	-8404.86	149.05	178.11
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2882.01	-193.85	-161.15	-3.044e+04	-7835.09	-129.37
			-270.37	7.22	23.98	2.153e+04	1967.69	644.13

Macro	Tipo	Angolo 1-Z (gradi)
13	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
13	2	0.0	-5345.03	-74.03	4.00	-4883.11	1.43e-06	20.69
13	2	45.00	-5345.03	-74.03	4.00	-8213.18	-77.49	36.83
13	2	130.00	-4579.79	-74.05	13.37	-8656.27	1872.59	56.79
13	2	225.00	-3565.95	-73.94	11.53	-6605.76	3879.68	19.07
13	2	305.00	-2496.97	-74.53	-14.74	-3158.74	1654.29	-11.17
13	2	340.00	-1699.09	-190.29	-19.97	-5.099e+04	98.97	-15.71
13	13	0.0	-2157.37	527.69	0.68	-1.227e+05	0.0	-6.77
13	13	45.00	-2157.37	527.69	0.68	-9.899e+04	-13.85	-6.45
13	13	130.00	-1850.93	527.43	2.27	-6.015e+04	315.41	1.04
13	13	225.00	-1451.13	527.66	2.01	-2.261e+04	662.62	4.95
13	13	305.00	-1042.38	526.66	-2.38	6570.11	300.91	5.91
13	13	340.00	-701.86	350.86	-3.67	-1.563e+04	22.40	8.56
13	24	0.0	-4012.48	-630.82	2.31	1.519e+05	0.0	23.08
13	24	45.00	-4012.48	-630.82	2.31	1.235e+05	-49.70	34.83
13	24	130.00	-3442.57	-630.55	7.87	7.962e+04	1098.96	40.52
13	24	225.00	-2691.20	-630.55	6.84	3.923e+04	2289.72	2.40
13	24	305.00	-1908.40	-631.01	-8.68	8030.87	979.72	-24.69
13	24	340.00	-1326.86	-700.07	-11.64	-3.682e+04	55.98	-28.39
13	44	0.0	-3766.58	-156.23	-498.07	3.295e+04	5.15e-06	37.18
13	44	45.00	-3766.58	-156.23	-498.07	2.592e+04	-2.167e+04	64.28
13	44	130.00	-3506.10	-156.22	-253.82	2.111e+04	-4.081e+04	96.27
13	44	225.00	-2905.97	-156.07	131.44	2.089e+04	-2.952e+04	73.09
13	44	305.00	-1936.73	-156.97	539.94	1.413e+04	8750.65	-235.26
13	44	340.00	-1328.57	-318.92	756.57	-3.238e+04	4.875e+04	-2397.77
13	47	0.0	-2613.59	-19.62	1.16	1.051e+04	0.0	6.74
13	47	45.00	-2613.59	-19.62	1.16	9630.94	-34.73	12.28
13	47	130.00	-2240.19	-19.62	4.21	8936.98	578.46	19.62
13	47	225.00	-1749.32	-19.52	3.73	9148.24	1224.01	7.51
13	47	305.00	-1242.89	-20.11	-4.49	9253.33	553.47	-2.98
13	47	340.00	-855.01	-120.24	-6.47	-1.937e+04	35.40	-6.78
13	48	0.0	-2613.59	-19.62	1.16	1.051e+04	0.0	6.74
13	48	45.00	-2613.59	-19.62	1.16	9630.94	-34.73	12.28

RELAZIONE DI RESISTENZA AL FUOCO



13	48	130.00	-2240.19	-19.62	4.21	8936.98	578.46	19.62
13	48	225.00	-1749.32	-19.52	3.73	9148.24	1224.01	7.51
13	48	305.00	-1242.89	-20.11	-4.49	9253.33	553.47	-2.98
13	48	340.00	-855.01	-120.24	-6.47	-1.937e+04	35.40	-6.78
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-5345.03	-700.07	-498.07	-1.227e+05	-4.081e+04	-2397.77
			-701.86	527.69	756.57	1.519e+05	4.875e+04	96.27

Macro	Tipo	Angolo 1-Z (gradi)
50	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
50	26	0.0	-594.84	-99.60	0.02	6401.87	0.0	-1.90
50	26	45.00	-594.84	-99.60	0.02	1928.41	0.48	-1.76
50	26	130.00	-490.57	-68.70	0.05	-955.70	5.60	-0.74
50	26	226.88	-393.25	-21.16	0.04	-676.12	10.90	-2.36
50	26	305.00	-331.85	24.12	-0.07	2269.10	-0.85	4.35
50	26	340.00	-301.53	49.49	-0.30	4358.94	15.52	23.18
50	28	0.0	-903.92	-11.71	5.32	-3266.46	0.0	-442.71
50	28	45.00	-903.92	-11.71	5.32	-3792.31	306.56	-428.15
50	28	130.00	-765.26	-12.23	2.16	-893.51	501.59	-44.39
50	28	226.88	-654.13	-12.13	-2.43	414.14	257.23	375.17
50	28	305.00	-559.89	-11.53	-4.12	1435.21	-354.64	181.98
50	28	340.00	-501.64	-11.35	-11.39	2182.12	-1302.59	-1246.25
50	44	0.0	-434.01	15.12	-17.84	481.25	0.0	1449.68
50	44	45.00	-434.01	15.12	-17.84	1160.38	-1040.89	1407.10
50	44	130.00	-412.24	15.29	-6.76	2124.76	-1633.42	147.71
50	44	226.88	-403.35	15.30	8.32	2354.59	-789.21	-1269.94
50	44	305.00	-386.53	15.67	13.27	2680.15	1162.36	-564.74
50	44	340.00	-372.02	16.01	35.61	2793.75	4463.60	4344.90
50	45	0.0	-144.99	23.24	-17.85	1071.05	0.0	1451.92
50	45	45.00	-144.99	23.24	-17.85	2115.04	-1040.19	1409.01
50	45	130.00	-164.80	23.46	-6.80	2513.88	-1637.93	148.22
50	45	226.88	-189.06	23.38	8.29	2679.00	-797.26	-1267.76
50	45	305.00	-199.80	23.63	13.33	2971.48	1163.70	-568.98
50	45	340.00	-196.79	24.10	35.85	3176.62	4450.18	4324.32
50	47	0.0	-451.53	6.31	-0.04	-1847.71	0.0	-3.77
50	47	45.00	-451.53	6.31	-0.04	-1564.29	-3.89	-2.77
50	47	130.00	-389.17	5.97	0.05	351.83	3.55	0.36
50	47	226.88	-341.16	5.94	0.02	1467.11	6.37	-2.33
50	47	305.00	-297.61	6.38	-0.05	2390.19	-3.77	3.73
50	47	340.00	-261.35	6.82	-0.24	3200.32	11.31	18.39
50	48	0.0	-451.53	6.31	-0.04	-1847.71	0.0	-3.77
50	48	45.00	-451.53	6.31	-0.04	-1564.29	-3.89	-2.77
50	48	130.00	-389.17	5.97	0.05	351.83	3.55	0.36
50	48	226.88	-341.16	5.94	0.02	1467.11	6.37	-2.33
50	48	305.00	-297.61	6.38	-0.05	2390.19	-3.77	3.73
50	48	340.00	-261.35	6.82	-0.24	3200.32	11.31	18.39
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-903.92	-99.60	-17.85	-3792.31	-1637.93	-1269.94
			-144.99	49.49	35.85	6401.87	4463.60	4344.90

Macro	Tipo	Angolo 1-Z (gradi)
15	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
15	2	215.00	-763.17	2.93	8.85	3024.41	2.23e-04	-6.18
15	2	305.00	-763.18	2.93	8.85	3288.98	1950.29	-8.25
15	12	215.00	-484.70	5.12	5.56	1369.77	3.27e-04	-5.76
15	12	305.00	-484.70	5.12	5.56	1829.68	981.57	-5.33

RELAZIONE DI RESISTENZA AL FUOCO



15	35	215.00	-125.22	0.60	-344.02	858.05	5.21e-03	-1.72
15	35	305.00	-125.22	0.60	-344.02	912.64	-2.946e+04	-1.86
15	38	215.00	-737.03	2.68	112.31	2795.91	-1.25e-03	-6.63
15	38	305.00	-737.03	2.68	112.31	3037.44	1.067e+04	-8.50
15	47	215.00	-285.45	1.01	3.02	1364.81	2.44e-04	-2.32
15	47	305.00	-285.45	1.01	3.02	1455.80	405.50	-3.67
15	48	215.00	-285.45	1.01	3.02	1364.81	2.44e-04	-2.32
15	48	305.00	-285.45	1.01	3.02	1455.80	405.50	-3.67
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-763.18	0.60	-344.02	858.05	-2.946e+04	-8.50
			-125.22	5.12	112.31	3288.98	1.067e+04	-1.72

Macro	Tipo	Angolo 1-Z (gradi)
79	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
79	2	215.00	-977.71	295.04	2.02	-8.175e+04	65.47	-10.98
79	2	305.00	-2108.81	-325.16	2.02	1.107e+05	6.06	-181.51
79	2	360.66	-3459.60	-556.22	2.93	7.065e+04	-110.22	54.87
79	2	365.28	-2618.82	-1391.28	0.88	8.038e+04	4.15	13.71
79	2	370.19	-1549.98	-1576.59	1.13	6.020e+04	-2.85	64.13
79	2	375.09	-533.72	-1093.49	0.82	3.862e+04	-1.95	36.03
79	35	215.00	-235.19	-16.23	0.74	-3.512e+04	17.85	16.79
79	35	305.00	-504.39	-364.64	0.74	2.745e+04	44.46	-45.62
79	35	360.66	-849.21	-311.24	0.19	2.240e+04	-33.38	11.37
79	35	365.28	-626.32	-505.07	0.12	2.210e+04	1.03	-2.66
79	35	370.19	-359.78	-511.29	0.29	1.646e+04	-1.30	13.42
79	35	375.09	-113.49	-331.11	0.22	1.056e+04	-0.81	7.15
79	47	215.00	-409.74	139.51	0.21	-3.730e+04	28.90	-1.95
79	47	305.00	-909.10	-131.69	0.21	4.669e+04	-35.81	-57.80
79	47	360.66	-1454.97	-243.50	1.34	3.080e+04	-36.68	19.62
79	47	365.28	-1100.30	-612.68	0.33	3.498e+04	-1.65	-1.06
79	47	370.19	-645.85	-693.72	0.36	2.591e+04	-2.67	11.18
79	47	375.09	-218.68	-475.99	0.28	1.624e+04	-1.48	5.30
79	48	215.00	-409.74	139.51	0.21	-3.730e+04	28.90	-1.95
79	48	305.00	-909.10	-131.69	0.21	4.669e+04	-35.81	-57.80
79	48	360.66	-1454.97	-243.50	1.34	3.080e+04	-36.68	19.62
79	48	365.28	-1100.30	-612.68	0.33	3.498e+04	-1.65	-1.06
79	48	370.19	-645.85	-693.72	0.36	2.591e+04	-2.67	11.18
79	48	375.09	-218.68	-475.99	0.28	1.624e+04	-1.48	5.30
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-3459.60	-1576.59	0.12	-8.175e+04	-110.22	-181.51
			-113.49	295.04	2.93	1.107e+05	65.47	64.13

Macro	Tipo	Angolo 1-Z (gradi)
81	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
81	2	215.00	-1022.88	432.75	-2.39	-8.309e+04	-48.84	10.13
81	2	305.00	-2240.33	-318.21	-2.39	1.174e+05	-83.30	140.04
81	2	360.66	-3680.89	-82.56	-2.20	6.134e+04	79.33	-122.13
81	2	365.50	-2731.98	-1049.28	-0.75	6.910e+04	-20.52	-87.12
81	2	370.33	-1598.07	-1291.04	-0.83	4.344e+04	-10.56	-122.50
81	2	375.17	-609.04	-836.49	-0.51	1.900e+04	-4.70	-74.43
81	18	215.00	-931.18	423.55	-2.04	-7.371e+04	-53.03	16.26
81	18	305.00	-2065.94	-218.23	-2.04	1.087e+05	-71.22	142.22
81	18	360.66	-3361.76	-16.45	-2.07	5.682e+04	74.44	-110.65
81	18	365.50	-2490.82	-908.51	-0.63	6.235e+04	-19.07	-73.03
81	18	370.33	-1460.10	-1144.02	-0.71	3.914e+04	-9.74	-106.97
81	18	375.17	-559.58	-746.45	-0.43	1.721e+04	-4.31	-65.86

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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81	35	215.00	-269.70	1.60	-0.89	-3.863e+04	-14.61	-15.62
81	35	305.00	-562.58	-353.96	-0.89	2.665e+04	-71.02	36.79
81	35	360.66	-922.14	-145.63	0.07	1.666e+04	24.96	-25.96
81	35	365.50	-671.25	-373.92	-0.06	1.626e+04	-5.57	-14.89
81	35	370.33	-388.87	-402.02	-0.19	9868.45	-2.47	-27.90
81	35	375.17	-150.09	-240.04	-0.11	3892.72	-1.09	-17.04
81	47	215.00	-428.11	213.23	-0.36	-3.764e+04	-23.64	4.38
81	47	305.00	-966.86	-120.20	-0.36	4.917e+04	3.42	42.83
81	47	360.66	-1561.69	-28.86	-1.12	2.449e+04	24.20	-48.06
81	47	365.50	-1161.72	-457.68	-0.25	2.843e+04	-6.03	-28.57
81	47	370.33	-679.72	-565.49	-0.21	1.760e+04	-3.42	-35.88
81	47	375.17	-262.58	-362.75	-0.13	7273.87	-1.53	-21.94
81	48	215.00	-428.11	213.23	-0.36	-3.764e+04	-23.64	4.38
81	48	305.00	-966.86	-120.20	-0.36	4.917e+04	3.42	42.83
81	48	360.66	-1561.69	-28.86	-1.12	2.449e+04	24.20	-48.06
81	48	365.50	-1161.72	-457.68	-0.25	2.843e+04	-6.03	-28.57
81	48	370.33	-679.72	-565.49	-0.21	1.760e+04	-3.42	-35.88
81	48	375.17	-262.58	-362.75	-0.13	7273.87	-1.53	-21.94
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-3680.89	-1291.04	-2.39	-8.309e+04	-83.30	-122.50
			-150.09	432.75	0.07	1.174e+05	79.33	142.22

Macro	Tipo	Angolo 1-Z (gradi)
28	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
28	2	215.00	-1035.61	73.34	9.26	-5.611e+04	415.27	5.37
28	2	305.00	-1985.77	252.06	9.26	-6.522e+04	378.71	-14.35
28	2	380.00	-1467.31	484.95	-2.87	-1.633e+04	101.09	78.15
28	8	215.00	-925.27	106.74	8.04	-5.297e+04	364.54	8.68
28	8	305.00	-1778.21	339.52	8.04	-5.842e+04	289.65	-11.49
28	8	380.00	-1302.60	539.49	-1.34	-1.123e+04	69.04	66.94
28	28	215.00	-949.99	70.63	8.75	-5.084e+04	389.77	-9.03
28	28	305.00	-1807.64	256.34	8.75	-5.580e+04	301.18	-10.19
28	28	380.00	-1309.25	470.26	-0.82	-9525.60	70.00	79.26
28	45	215.00	-219.17	15.57	1.35	-1.396e+04	63.19	35.20
28	45	305.00	-477.59	61.45	1.35	-1.305e+04	-45.04	-3.09
28	45	380.00	-311.23	104.96	2.68	-2078.91	-49.61	-7.16
28	47	215.00	-477.97	24.36	4.47	-2.706e+04	199.63	8.93
28	47	305.00	-959.01	92.20	4.47	-3.211e+04	194.48	-9.42
28	47	380.00	-699.50	196.96	-1.68	-1.068e+04	49.03	31.21
28	48	215.00	-477.97	24.36	4.47	-2.706e+04	199.63	8.93
28	48	305.00	-959.01	92.20	4.47	-3.211e+04	194.48	-9.42
28	48	380.00	-699.50	196.96	-1.68	-1.068e+04	49.03	31.21
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1985.77	15.57	-2.87	-6.522e+04	-49.61	-14.35
			-219.17	539.49	9.26	-2078.91	415.27	79.26

Macro	Tipo	Angolo 1-Z (gradi)
36	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
36	2	217.50	-1253.88	4.13	-24.47	784.33	-350.94	0.47
36	2	305.00	-2752.38	24.36	-24.47	387.30	-1001.29	0.85
36	2	400.00	-1966.23	7.02	-0.18	-748.13	-375.95	-0.32
36	11	217.50	-578.45	50.24	-12.69	-4743.47	-203.37	-2.88
36	11	305.00	-1343.60	122.98	-12.69	-1481.01	-488.35	-1.14
36	11	400.00	-924.46	73.97	-0.15	3148.76	-177.81	4.90
36	12	217.50	-846.92	51.86	-17.40	-4599.81	-261.83	-2.83
36	12	305.00	-1902.54	130.32	-17.40	-1466.49	-720.51	-0.88

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36	12	400.00	-1335.81	75.21	0.50	2908.16	-262.34	3.59
36	35	217.50	-312.46	1.44	-7.88	112.27	-100.00	0.33
36	35	305.00	-778.62	6.43	-7.88	-23.25	-71.18	0.66
36	35	400.00	-521.21	4.02	-6.50	-303.86	-25.47	0.83
36	47	217.50	-528.79	0.67	-11.15	365.00	-173.52	0.26
36	47	305.00	-1211.07	7.24	-11.15	268.10	-397.48	0.25
36	47	400.00	-844.51	3.50	-1.10	-191.12	-152.08	1.69
36	48	217.50	-528.79	0.67	-11.15	365.00	-173.52	0.26
36	48	305.00	-1211.07	7.24	-11.15	268.10	-397.48	0.25
36	48	400.00	-844.51	3.50	-1.10	-191.12	-152.08	1.69
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2752.38	0.67	-24.47	-4743.47	-1001.29	-2.88
			-312.46	130.32	0.50	3148.76	-25.47	4.90

Macro	Tipo	Angolo 1-Z (gradi)
54	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
54	2	305.00	-123.23	12.76	-2.42	-4756.53	61.46	199.23
54	2	340.00	-349.96	45.44	-2.42	5030.81	-164.33	205.81
54	12	305.00	-98.00	53.13	-1.17	-9430.17	36.58	112.88
54	12	340.00	-269.02	156.87	-1.17	-7290.96	-87.84	113.22
54	28	305.00	-121.55	11.45	-110.84	-3120.18	83.23	221.59
54	28	340.00	-337.43	48.10	-110.84	6062.15	-5276.04	262.50
54	45	305.00	-46.66	3.31	361.87	-4998.03	-97.05	-90.72
54	45	340.00	-152.99	6.62	361.87	-3763.66	1.708e+04	-195.71
54	47	305.00	-63.29	1.83	-0.56	-1663.56	24.96	60.48
54	47	340.00	-177.04	11.21	-0.56	1838.08	-50.91	60.52
54	48	305.00	-63.29	1.83	-0.56	-1663.56	24.96	60.48
54	48	340.00	-177.04	11.21	-0.56	1838.08	-50.91	60.52
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-349.96	1.83	-110.84	-9430.17	-5276.04	-195.71
			-46.66	156.87	361.87	6062.15	1.708e+04	262.50

Macro	Tipo	Angolo 1-Z (gradi)
23	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
23	8	305.00	-24.48	29.40	-6.48	-2596.50	390.23	8.01
23	8	340.00	-99.91	75.45	-6.48	-3320.99	-699.34	10.57
23	14	305.00	-14.20	49.11	-3.62	-4296.38	209.23	7.09
23	14	340.00	-65.31	122.32	-3.62	-5379.25	-380.48	9.11
23	38	305.00	-23.44	-0.62	102.90	9.75	300.20	4.82
23	38	340.00	-109.03	2.92	102.90	-60.16	4409.32	6.80
23	45	305.00	-6.41	-1.27	180.21	91.70	-39.57	0.05
23	45	340.00	-65.77	9.63e-03	180.21	140.28	8306.38	0.48
23	47	305.00	-10.19	-0.65	-2.87	51.48	164.85	1.79
23	47	340.00	-55.75	0.32	-2.87	27.30	-300.41	2.41
23	48	305.00	-10.19	-0.65	-2.87	51.48	164.85	1.79
23	48	340.00	-55.75	0.32	-2.87	27.30	-300.41	2.41
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-109.03	-1.27	-6.48	-5379.25	-699.34	0.05
			-6.41	122.32	180.21	140.28	8306.38	10.57

Macro	Tipo	Angolo 1-Z (gradi)
73	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
73	2	305.00	-117.28	-13.08	-3.07	6074.94	77.04	-226.64
73	2	340.00	-339.31	-49.87	-3.07	-3290.14	-212.29	-243.45
73	24	305.00	-94.75	-53.26	-1.57	1.011e+04	45.83	-129.75
73	24	340.00	-263.15	-159.07	-1.57	8135.85	-116.60	-136.25
73	28	305.00	-115.63	-11.45	-111.43	4394.84	97.94	-247.65
73	28	340.00	-326.84	-51.17	-111.43	-4275.07	-5320.24	-298.34
73	45	305.00	-46.52	-5.93	361.63	5378.73	-93.41	87.40
73	45	340.00	-152.25	-13.88	361.63	4024.17	1.707e+04	191.13
73	47	305.00	-63.06	-3.82	-0.78	1928.80	29.53	-68.95
73	47	340.00	-176.38	-18.59	-0.78	-1645.01	-66.39	-71.73
73	48	305.00	-63.06	-3.82	-0.78	1928.80	29.53	-68.95
73	48	340.00	-176.38	-18.59	-0.78	-1645.01	-66.39	-71.73

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	daN	daN	daN	daN cm	daN cm	daN cm
	-339.31	-159.07	-111.43	-4275.07	-5320.24	-298.34
	-46.52	-3.82	361.63	1.011e+04	1.707e+04	191.13

Macro	Tipo	Angolo 1-Z (gradi)
114	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
114	2	305.00	-379.36	-122.25	-1.68	-8.888e+04	-63.32	101.61
114	2	351.27	-123.48	-143.38	-0.32	1.659e+04	2.46	59.95
114	2	351.27	-123.48	-143.38	-0.32	1.659e+04	2.46	59.95
114	11	305.00	-147.45	-133.82	-0.56	-3.089e+04	-21.00	31.41
114	11	351.27	-80.71	-357.18	-0.12	6377.56	0.77	16.38
114	11	351.27	-80.71	-357.18	-0.12	6377.56	0.77	16.38
114	13	305.00	-93.12	-109.97	-0.33	-1.858e+04	-12.42	17.90
114	13	351.27	-57.41	-317.28	-0.07	3715.67	0.44	8.69
114	13	351.27	-57.41	-317.28	-0.07	3715.67	0.44	8.69
114	45	305.00	-111.39	-70.07	79.86	-1.991e+04	-6008.43	-8719.99
114	45	351.27	-87.86	-169.32	73.28	5892.90	-22.54	8636.33
114	45	351.27	-87.86	-169.32	73.28	5892.90	-22.54	8636.33
114	47	305.00	-142.94	-73.55	-0.59	-3.170e+04	-21.97	34.32
114	47	351.27	-71.22	-139.04	-0.13	7416.94	0.87	19.06
114	47	351.27	-71.22	-139.04	-0.13	7416.94	0.87	19.06
114	48	305.00	-142.94	-73.55	-0.59	-3.170e+04	-21.97	34.32
114	48	351.27	-71.22	-139.04	-0.13	7416.94	0.87	19.06
114	48	351.27	-71.22	-139.04	-0.13	7416.94	0.87	19.06

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	daN	daN	daN	daN cm	daN cm	daN cm
	-379.36	-357.18	-1.68	-8.888e+04	-6008.43	-8719.99
	-57.41	-70.07	79.86	1.659e+04	2.46	8636.33

Macro	Tipo	Angolo 1-Z (gradi)
91	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
91	2	305.00	-280.69	212.13	-2.21	1.010e+05	-213.61	442.66
91	2	351.27	-455.71	734.96	-2.21	7.515e+04	-34.92	565.47
91	25	305.00	-67.05	66.45	-0.42	2.925e+04	-40.72	87.19
91	25	351.27	-139.65	224.70	-0.42	1.616e+04	-6.44	111.42
91	44	305.00	-195.74	166.45	84.99	6.308e+04	-4447.09	2655.83
91	44	351.27	-322.02	539.36	84.99	4.491e+04	185.00	2809.81
91	47	305.00	-104.86	109.59	-0.75	3.764e+04	-72.25	150.69
91	47	351.27	-189.43	338.56	-0.75	2.490e+04	-11.79	192.88
91	48	305.00	-104.86	109.59	-0.75	3.764e+04	-72.25	150.69
91	48	351.27	-189.43	338.56	-0.75	2.490e+04	-11.79	192.88

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-455.71	66.45	-2.21	1.616e+04	-4447.09	87.19
	-67.05	734.96	84.99	1.010e+05	185.00	2809.81

Macro	Tipo	Angolo 1-Z (gradi)
11	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
11	2	305.00	-174.59	5.51	-4.80	4.11	54.34	-12.24
11	2	351.27	-945.92	22.20	-4.80	-491.62	1.31	-18.26
11	2	351.29	-945.92	22.20	-4.80	-491.62	1.31	-18.26
11	12	305.00	-95.00	42.57	-2.95	-5794.08	33.99	-7.52
11	12	351.27	-615.31	85.28	-2.95	-1637.97	0.56	-10.62
11	12	351.29	-615.31	85.28	-2.95	-1637.97	0.56	-10.62
11	25	305.00	-19.50	-39.33	-1.03	5395.56	12.50	-2.66
11	25	351.27	-249.42	-69.16	-1.03	1055.96	-0.20	-4.17
11	25	351.29	-249.42	-69.16	-1.03	1055.96	-0.20	-4.17
11	44	305.00	-140.17	1.67	-20.10	-226.43	-197.81	-32.37
11	44	351.27	-625.28	10.32	-20.10	-325.16	70.90	-10.72
11	44	351.29	-625.28	10.32	-20.10	-325.16	70.90	-10.72
11	47	305.00	-49.26	0.06	-1.72	-153.74	19.79	-3.95
11	47	351.27	-370.66	4.33	-1.72	-313.70	-0.03	-5.91
11	47	351.29	-370.66	4.33	-1.72	-313.70	-0.03	-5.91
11	48	305.00	-49.26	0.06	-1.72	-153.74	19.79	-3.95
11	48	351.27	-370.66	4.33	-1.72	-313.70	-0.03	-5.91
11	48	351.29	-370.66	4.33	-1.72	-313.70	-0.03	-5.91

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-945.92	-69.16	-20.10	-5794.08	-197.81	-32.37
	-19.50	85.28	-1.03	5395.56	70.90	-2.66

Macro	Tipo	Angolo 1-Z (gradi)
87	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
87	2	305.00	-300.26	-210.51	-2.68	-1.057e+05	-216.16	-426.33
87	2	351.27	-473.51	-737.91	-2.68	-8.028e+04	-30.68	-536.86
87	13	305.00	-67.67	-66.29	-0.53	-2.919e+04	-41.50	-83.65
87	13	351.27	-139.76	-222.77	-0.53	-1.619e+04	-5.62	-105.45
87	18	305.00	-281.45	-218.72	-2.52	-9.518e+04	-200.10	-390.19
87	18	351.27	-442.72	-738.02	-2.52	-7.325e+04	-28.16	-491.75
87	44	305.00	-205.79	-167.11	84.33	-6.521e+04	-4455.81	-2628.62
87	44	351.27	-330.76	-542.20	84.33	-4.748e+04	186.38	-2777.91
87	47	305.00	-105.64	-110.18	-0.92	-3.738e+04	-73.16	-143.46
87	47	351.27	-189.52	-340.51	-0.92	-2.490e+04	-10.26	-181.26
87	48	305.00	-105.64	-110.18	-0.92	-3.738e+04	-73.16	-143.46
87	48	351.27	-189.52	-340.51	-0.92	-2.490e+04	-10.26	-181.26

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-473.51	-738.02	-2.68	-1.057e+05	-4455.81	-2777.91
	-67.67	-66.29	84.33	-1.619e+04	186.38	-83.65

Macro	Tipo	Angolo 1-Z (gradi)
83	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



		cm	daN	daN	daN	daN cm	daN cm	daN cm
83	2	305.00	-377.26	119.65	-1.94	9.313e+04	-69.08	-105.52
83	2	351.27	-153.78	47.84	-1.71	-1.207e+04	3.18	-90.75
83	2	351.27	-153.78	47.84	-1.71	-1.207e+04	3.18	-90.75
83	23	305.00	-149.07	145.59	-0.61	3.105e+04	-22.32	-33.06
83	23	351.27	-100.28	317.89	-0.55	-4196.70	0.77	-27.75
83	23	351.27	-100.28	317.89	-0.55	-4196.70	0.77	-27.75
83	25	305.00	-95.11	122.97	-0.36	1.802e+04	-13.32	-19.55
83	25	351.27	-72.19	300.59	-0.32	-2203.53	0.40	-16.28
83	25	351.27	-72.19	300.59	-0.32	-2203.53	0.40	-16.28
83	45	305.00	-112.42	65.88	89.52	2.203e+04	-5971.48	8561.77
83	45	351.27	-104.11	76.70	67.88	-5201.66	68.24	4496.29
83	45	351.27	-104.11	76.70	67.88	-5201.66	68.24	4496.29
83	47	305.00	-142.05	69.88	-0.64	3.373e+04	-23.07	-34.28
83	47	351.27	-85.37	65.35	-0.58	-5797.51	0.92	-28.90
83	47	351.27	-85.37	65.35	-0.58	-5797.51	0.92	-28.90
83	48	305.00	-142.05	69.88	-0.64	3.373e+04	-23.07	-34.28
83	48	351.27	-85.37	65.35	-0.58	-5797.51	0.92	-28.90
83	48	351.27	-85.37	65.35	-0.58	-5797.51	0.92	-28.90
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-377.26	47.84	-1.94	-1.207e+04	-5971.48	-105.52
			-72.19	317.89	89.52	9.313e+04	68.24	8561.77

Macro	Tipo	Angolo 1-Z (gradi)
18	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
18	8	305.00	-196.06	51.43	413.32	2809.56	-2.393e+04	12.20
18	8	360.66	-196.06	51.43	413.32	5669.05	-0.03	12.61
18	8	360.66	-196.06	51.43	413.32	5669.05	-0.03	12.61
18	8	360.66	-196.06	51.43	413.32	5669.05	-0.03	12.61
18	12	305.00	-211.27	64.57	227.03	782.37	-1.297e+04	10.57
18	12	360.66	-211.27	64.57	227.03	4372.99	-0.02	10.84
18	12	360.66	-211.27	64.57	227.03	4372.99	-0.02	10.84
18	12	360.66	-211.27	64.57	227.03	4372.99	-0.02	10.84
18	33	305.00	-294.05	18.69	243.84	1570.20	-1.405e+04	3.80
18	33	360.66	-294.05	18.69	243.84	2609.13	-0.03	3.98
18	33	360.66	-294.05	18.69	243.84	2609.13	-0.03	3.98
18	33	360.66	-294.05	18.69	243.84	2609.13	-0.03	3.98
18	40	305.00	-104.59	12.32	326.72	3386.12	-1.890e+04	7.51
18	40	360.66	-104.59	12.32	326.72	4070.54	-0.02	7.96
18	40	360.66	-104.59	12.32	326.72	4070.54	-0.02	7.96
18	40	360.66	-104.59	12.32	326.72	4070.54	-0.02	7.96
18	47	305.00	-204.63	4.49	96.92	1989.20	-5400.15	4.99
18	47	360.66	-204.63	4.49	96.92	2238.53	-3.88e-03	5.41
18	47	360.66	-204.63	4.49	96.92	2238.53	-3.88e-03	5.41
18	47	360.66	-204.63	4.49	96.92	2238.53	-3.88e-03	5.41
18	48	305.00	-204.63	4.49	96.92	1989.20	-5400.15	4.99
18	48	360.66	-204.63	4.49	96.92	2238.53	-3.88e-03	5.41
18	48	360.66	-204.63	4.49	96.92	2238.53	-3.88e-03	5.41
18	48	360.66	-204.63	4.49	96.92	2238.53	-3.88e-03	5.41
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-294.05	4.49	96.92	782.37	-2.393e+04	3.80
			-104.59	64.57	413.32	5669.05	-3.88e-03	12.61

Macro	Tipo	Angolo 1-Z (gradi)
16	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
16	11	340.00	-179.84	224.06	0.06	1.772e+04	-25.06	-18.74

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



16	11	443.46	-280.98	201.62	0.06	-357.44	-0.83	-21.42
16	25	340.00	-77.87	187.24	0.05	2.647e+04	-26.09	-14.46
16	25	443.46	-195.29	-5.44	0.05	-1.065e+04	-1.36	-19.17
16	33	340.00	-140.19	274.50	450.36	2.442e+04	-5.798e+04	-73.48
16	33	443.46	-266.09	83.88	450.36	-6951.57	146.37	-1197.95
16	34	340.00	-152.57	258.14	450.43	2.478e+04	-5.799e+04	-85.86
16	34	443.46	-263.86	79.51	450.43	-1887.30	147.80	-1210.87
16	47	340.00	-114.28	173.79	-0.10	1.946e+04	-5.48	-11.25
16	47	443.46	-202.02	55.30	-0.10	-3467.92	-0.63	-7.69
16	48	340.00	-114.28	173.79	-0.10	1.946e+04	-5.48	-11.25
16	48	443.46	-202.02	55.30	-0.10	-3467.92	-0.63	-7.69
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-280.98	-5.44	-0.10	-1.065e+04	-5.799e+04	-1210.87
			-77.87	274.50	450.43	2.647e+04	147.80	-7.69

Macro	Tipo	Angolo 1-Z (gradi)
22	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
22	23	340.00	-305.90	-176.49	-0.06	3.213e+04	-1.43	7.81
22	23	443.46	-130.73	-74.18	-0.06	-3231.64	-0.84	6.81
22	33	340.00	-287.25	-181.16	149.91	2.999e+04	-1.395e+04	1210.85
22	33	443.46	-130.05	-80.23	149.91	-3149.92	-61.62	2432.55
22	34	340.00	-280.59	-164.92	149.85	2.776e+04	-1.395e+04	1214.41
22	34	443.46	-140.44	-79.92	149.85	-1997.56	-63.98	2435.65
22	35	340.00	-222.60	-143.01	149.94	2.386e+04	-1.395e+04	1207.96
22	35	443.46	-96.24	-62.61	149.94	-2766.73	-60.81	2429.93
22	47	340.00	-217.15	-118.89	-0.05	2.054e+04	-1.04	7.56
22	47	443.46	-105.21	-56.46	-0.05	-1700.70	-0.88	6.56
22	48	340.00	-217.15	-118.89	-0.05	2.054e+04	-1.04	7.56
22	48	443.46	-105.21	-56.46	-0.05	-1700.70	-0.88	6.56
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-305.90	-181.16	-0.06	-3231.64	-1.395e+04	6.56
			-96.24	-56.46	149.94	3.213e+04	-0.84	2435.65

Macro	Tipo	Angolo 1-Z (gradi)
93	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
93	12	340.00	-119.47	5.50	-0.07	-1.227e+04	-0.35	-1.06
93	12	443.46	-100.07	-8.73	-0.07	-807.69	2.68	-0.57
93	23	340.00	-80.40	-63.06	-0.08	-4200.54	1.39	-1.68
93	23	443.46	-103.11	-2.71	-0.08	-731.51	1.13	-1.25
93	25	340.00	-57.06	-55.12	-0.06	-2260.99	1.53	-2.98
93	25	443.46	-80.11	-1.55	-0.06	-432.03	0.46	-2.29
93	34	340.00	-106.68	-30.81	124.21	-8744.23	-1.392e+04	152.16
93	34	443.46	-100.27	-5.12	124.21	-690.38	10.23	115.32
93	47	340.00	-75.73	-34.08	-0.04	-5554.60	-0.39	3.42
93	47	443.46	-78.60	-5.15	-0.04	-538.58	1.45	3.00
93	48	340.00	-75.73	-34.08	-0.04	-5554.60	-0.39	3.42
93	48	443.46	-78.60	-5.15	-0.04	-538.58	1.45	3.00
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-119.47	-63.06	-0.08	-1.227e+04	-1.392e+04	-2.98
			-57.06	5.50	124.21	-432.03	10.23	152.16

Macro	Tipo	Angolo 1-Z (gradi)
94	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
94	2	340.00	-221.15	-35.99	6.36	-2.980e+04	-250.31	78.16
94	2	443.46	-257.03	23.30	6.36	-1.989e+04	0.42	93.66
94	13	340.00	-130.74	61.21	1.24	-1.811e+04	-91.91	29.66
94	13	443.46	-167.12	10.40	1.24	-3743.33	-2.35e-03	47.48
94	24	340.00	-218.69	-67.39	3.70	-1.353e+04	-189.00	68.95
94	24	443.46	-233.48	7.72	3.70	-1.224e+04	1.16	89.28
94	35	340.00	-136.29	-51.86	208.48	-6267.58	-2.742e+04	-448.51
94	35	443.46	-160.63	-1.69	208.48	-1906.74	-94.28	-1198.65
94	47	340.00	-152.27	-20.93	2.24	-1.232e+04	-94.69	35.26
94	47	443.46	-173.61	6.21	2.24	-6815.12	0.06	41.94
94	48	340.00	-152.27	-20.93	2.24	-1.232e+04	-94.69	35.26
94	48	443.46	-173.61	6.21	2.24	-6815.12	0.06	41.94
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-257.03	-67.39	1.24	-2.980e+04	-2.742e+04	-1198.65
			-130.74	61.21	208.48	-1906.74	1.16	93.66

Macro	Tipo	Angolo 1-Z (gradi)
95	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
95	35	340.00	-134.96	-17.26	209.50	3860.32	-2.655e+04	557.97
95	35	443.46	-139.46	-2.59	209.50	1682.88	68.04	1035.01
95	38	340.00	-252.87	28.30	-58.62	1.105e+04	7667.44	-217.33
95	38	443.46	-226.55	-26.91	-58.62	1.774e+04	-15.46	-431.37
95	46	340.00	-183.84	41.45	-102.04	4808.14	1.304e+04	-322.92
95	46	443.46	-165.51	-14.41	-102.04	1.082e+04	-30.49	-623.01
95	47	340.00	-159.48	1.71	1.46	4789.84	-91.64	-19.66
95	47	443.46	-152.37	-8.37	1.46	6228.74	1.80	-38.23
95	48	340.00	-159.48	1.71	1.46	4789.84	-91.64	-19.66
95	48	443.46	-152.37	-8.37	1.46	6228.74	1.80	-38.23
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-252.87	-26.91	-102.04	1682.88	-2.655e+04	-623.01
			-134.96	41.45	209.50	1.774e+04	1.304e+04	1035.01

Macro	Tipo	Angolo 1-Z (gradi)
96	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
96	14	340.00	-122.21	-24.46	-0.20	-2244.04	0.21	6.99
96	14	443.46	-157.55	-15.71	-0.20	395.34	-2.89	6.25
96	18	340.00	-188.49	-180.84	-0.36	7479.72	-0.64	7.60
96	18	443.46	-204.63	-34.22	-0.36	344.81	-4.80	6.96
96	23	340.00	-209.20	-131.35	-0.18	7397.13	-0.98	8.95
96	23	443.46	-198.82	-21.39	-0.18	-190.27	-2.21	8.00
96	35	340.00	-156.20	-63.37	225.32	5232.73	-2.696e+04	-297.60
96	35	443.46	-152.42	-17.36	225.32	-468.95	-95.53	-599.72
96	47	340.00	-144.52	-61.90	-0.17	2984.63	-0.07	0.72
96	47	443.46	-155.00	-17.36	-0.17	3.54	-2.15	0.71
96	48	340.00	-144.52	-61.90	-0.17	2984.63	-0.07	0.72
96	48	443.46	-155.00	-17.36	-0.17	3.54	-2.15	0.71
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-209.20	-180.84	-0.36	-2244.04	-2.696e+04	-599.72

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



-122.21 -15.71 225.32 7479.72 0.21

Macro	Tipo	Angolo 1-Z (gradi)
97	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
97	13	340.00	-169.98	55.06	0.13	-6138.41	-50.43	-2.97
97	13	443.46	-161.75	84.08	0.13	-1496.23	0.22	16.21
97	18	340.00	-254.29	92.10	0.24	-1.616e+04	-94.09	-17.63
97	18	443.46	-252.95	-24.01	0.24	-1.304e+04	0.69	14.69
97	28	340.00	-244.31	154.75	108.13	-1.827e+04	-1.926e+04	-174.97
97	28	443.46	-238.18	58.29	108.13	-9155.80	17.10	-293.35
97	35	340.00	-165.98	77.52	179.90	-5674.70	-3.197e+04	-261.12
97	35	443.46	-165.27	16.84	179.90	-1032.53	27.48	-502.34
97	47	340.00	-178.21	60.22	0.08	-7941.75	-38.52	-9.41
97	47	443.46	-174.85	25.75	0.08	-4536.91	0.35	3.74
97	48	340.00	-178.21	60.22	0.08	-7941.75	-38.52	-9.41
97	48	443.46	-174.85	25.75	0.08	-4536.91	0.35	3.74
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-254.29	-24.01	0.08	-1.827e+04	-3.197e+04	-502.34
			-161.75	154.75	179.90	-1032.53	27.48	16.21

Macro	Tipo	Angolo 1-Z (gradi)
20	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
20	2	340.00	-177.00	-324.84	-1.06	2.841e+04	89.73	-285.18
20	2	443.46	-163.80	-140.49	-1.06	6538.99	-4.16	-253.08
20	44	340.00	-144.24	-388.37	-190.80	2.854e+04	1.050e+04	-1.149e+04
20	44	443.46	-140.80	-135.51	-190.80	2004.47	66.72	-8925.10
20	45	340.00	-92.38	-307.37	-190.37	2.142e+04	1.046e+04	-1.137e+04
20	45	443.46	-96.89	-101.63	-190.37	-513.24	68.43	-8819.95
20	47	340.00	-109.20	-233.77	-0.36	2.046e+04	36.49	-92.16
20	47	443.46	-111.14	-104.52	-0.36	2589.46	-1.35	-78.45
20	48	340.00	-109.20	-233.77	-0.36	2.046e+04	36.49	-92.16
20	48	443.46	-111.14	-104.52	-0.36	2589.46	-1.35	-78.45
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-177.00	-388.37	-190.80	-513.24	-4.16	-1.149e+04
			-92.38	-101.63	-0.36	2.854e+04	1.050e+04	-78.45

Macro	Tipo	Angolo 1-Z (gradi)
98	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
98	2	340.00	164.60	258.98	-1.75	1.080e+04	-115.93	-211.14
98	2	443.46	-120.09	156.96	-1.75	-2954.26	-1.29	-116.44
98	8	340.00	139.63	305.94	-1.63	7507.51	-107.95	-196.64
98	8	443.46	-121.47	189.79	-1.63	-3024.55	-1.20	-108.43
98	11	340.00	35.59	385.91	-0.58	-6477.35	-38.43	-68.01
98	11	443.46	-118.32	244.07	-0.58	-2392.45	-0.33	-36.69
98	45	340.00	30.64	242.28	3.38	-4729.48	3805.57	4696.67
98	45	443.46	-86.59	155.58	3.38	-1425.91	732.36	3450.24
98	47	340.00	57.39	237.73	-0.58	-1037.62	-38.26	-68.19
98	47	443.46	-89.15	146.40	-0.58	-1734.25	-0.35	-37.03

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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98	48	340.00	57.39	237.73	-0.58	-1037.62	-38.26	-68.19
98	48	443.46	-89.15	146.40	-0.58	-1734.25	-0.35	-37.03
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-121.47	146.40	-1.75	-6477.35	-115.93	-211.14
			164.60	385.91	3.38	1.080e+04	3805.57	4696.67

Macro	Tipo	Angolo 1-Z (gradi)
99	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
99	2	340.00	-700.70	-1.08	-2.50	-3382.57	189.09	-22.94
99	2	443.46	-143.90	-19.95	-2.50	-392.01	-4.98	-63.34
99	10	340.00	-553.06	29.63	-1.94	-4718.78	146.35	-9.75
99	10	443.46	-108.04	-41.94	-1.94	-251.93	-3.47	-43.35
99	11	340.00	-517.88	113.48	-0.81	-3385.19	59.28	13.24
99	11	443.46	-155.88	-74.03	-0.81	-1395.76	-2.17	-2.88
99	45	340.00	-373.91	66.52	-336.44	-4214.09	4.388e+04	3619.31
99	45	443.46	-124.82	-24.28	-336.44	-370.67	-1065.43	3239.31
99	47	340.00	-413.75	37.39	-0.86	-609.74	64.28	-3.63
99	47	443.46	-120.67	-21.72	-0.86	-945.02	-2.37	-17.23
99	48	340.00	-413.75	37.39	-0.86	-609.74	64.28	-3.63
99	48	443.46	-120.67	-21.72	-0.86	-945.02	-2.37	-17.23
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-700.70	-74.03	-336.44	-4718.78	-1065.43	-63.34
			-108.04	113.48	-0.81	-251.93	4.388e+04	3619.31

Macro	Tipo	Angolo 1-Z (gradi)
37	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
37	2	340.00	273.25	111.94	1.11	-2.277e+04	-148.68	119.58
37	2	443.46	-237.93	47.91	1.11	2436.56	24.28	7.03
37	8	340.00	255.03	152.98	1.01	-2.781e+04	-132.44	107.87
37	8	443.46	-235.80	61.07	1.01	2719.71	22.36	3.74
37	43	340.00	120.43	50.11	-173.78	-5062.03	1.774e+04	-419.72
37	43	443.46	-222.74	18.79	-173.78	878.06	549.24	-768.41
37	47	340.00	100.11	31.99	0.39	-6461.99	-43.96	31.22
37	47	443.46	-172.14	16.18	0.39	856.63	9.65	-8.31
37	48	340.00	100.11	31.99	0.39	-6461.99	-43.96	31.22
37	48	443.46	-172.14	16.18	0.39	856.63	9.65	-8.31
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-237.93	16.18	-173.78	-2.781e+04	-148.68	-768.41
			273.25	152.98	1.11	2719.71	1.774e+04	119.58

Macro	Tipo	Angolo 1-Z (gradi)
100	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
100	2	340.00	-628.97	-8.98	-4.30	822.13	-25.63	-5.87
100	2	443.46	-178.22	0.17	-4.30	46.78	-33.39	-5.43
100	4	340.00	-502.95	-8.76	-3.66	742.81	-19.22	-4.97
100	4	443.46	-135.14	-0.14	-3.66	36.11	-28.31	-4.64
100	12	340.00	-552.55	-50.12	-2.72	-2774.38	-28.82	-4.55

RELAZIONE DI RESISTENZA AL FUOCO



100	12	443.46	-185.89	-25.87	-2.72	374.99	-21.54	-3.90
100	38	340.00	-628.75	-7.72	-194.64	795.35	2.401e+04	-6.64
100	38	443.46	-178.25	0.25	-194.64	80.46	-364.59	-6.31
100	47	340.00	-400.36	-0.82	-1.63	200.86	-20.84	-2.22
100	47	443.46	-145.57	0.70	-1.63	28.24	-13.15	-1.96
100	48	340.00	-400.36	-0.82	-1.63	200.86	-20.84	-2.22
100	48	443.46	-145.57	0.70	-1.63	28.24	-13.15	-1.96

M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-628.97	-50.12	-194.64	-2774.38	-364.59	-6.64
			-135.14	0.70	-1.63	822.13	2.401e+04	-1.96

Macro	Tipo	Angolo 1-Z (gradi)
101	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
101	2	340.00	267.46	-89.41	1.43	2.087e+04	-188.75	-149.94
101	2	443.46	-238.27	-46.85	1.43	-2128.29	33.83	-30.78
101	24	340.00	170.88	-131.09	0.84	2.328e+04	-101.30	-80.25
101	24	443.46	-227.84	-55.93	0.84	-2106.65	21.16	-7.38
101	45	340.00	83.06	-42.24	-173.85	3275.85	1.774e+04	428.18
101	45	443.46	-170.66	-14.33	-173.85	-529.78	548.36	763.42
101	47	340.00	100.70	-31.11	0.50	7054.14	-56.85	-40.34
101	47	443.46	-172.49	-17.75	0.50	-862.84	12.79	1.09
101	48	340.00	100.70	-31.11	0.50	7054.14	-56.85	-40.34
101	48	443.46	-172.49	-17.75	0.50	-862.84	12.79	1.09

M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-238.27	-131.09	-173.85	-2128.29	-188.75	-149.94
			267.46	-14.33	1.43	2.328e+04	1.774e+04	763.42

Macro	Tipo	Angolo 1-Z (gradi)
7	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
7	2	340.00	-525.59	312.44	-4.50	2.190e+04	529.12	176.87
7	2	443.46	-137.05	86.69	-4.50	-2202.99	-40.33	115.63
7	20	340.00	-409.51	220.73	-3.56	2.036e+04	419.44	130.61
7	20	443.46	-103.13	81.70	-3.56	-1641.88	-32.01	83.54
7	44	340.00	-422.08	159.68	-215.59	2.945e+04	3.143e+04	1892.80
7	44	443.46	-142.65	53.94	-215.59	-1788.82	909.37	1086.26
7	47	340.00	-287.60	101.34	-1.47	2.218e+04	172.61	58.12
7	47	443.46	-112.98	33.14	-1.47	-1196.88	-13.27	37.43
7	48	340.00	-287.60	101.34	-1.47	2.218e+04	172.61	58.12
7	48	443.46	-112.98	33.14	-1.47	-1196.88	-13.27	37.43

M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-525.59	33.14	-215.59	-2202.99	-40.33	37.43
			-103.13	312.44	-1.47	2.945e+04	3.143e+04	1892.80

Macro	Tipo	Angolo 1-Z (gradi)
19	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
19	10	340.00	-94.87	-178.46	-0.06	-2.264e+04	-320.21	304.10
19	10	443.46	-188.41	-7.70	-0.06	121.22	20.85	279.13

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



19	18	340.00	-170.00	-288.53	-0.08	-9697.09	-376.95	355.14
19	18	443.46	-262.57	-197.05	-0.08	-2746.72	24.23	324.38
19	24	340.00	-217.44	-272.75	-0.07	8304.83	-243.33	227.15
19	24	443.46	-265.57	-264.27	-0.07	-2811.34	15.45	207.28
19	44	340.00	-178.61	-113.17	-114.28	-4668.81	2.145e+04	1958.36
19	44	443.46	-236.45	-73.73	-114.28	5615.46	-1179.70	746.28
19	47	340.00	-157.34	-142.73	-0.06	1929.16	-128.88	117.65
19	47	443.46	-185.90	-52.42	-0.06	1680.39	8.05	107.30
19	48	340.00	-157.34	-142.73	-0.06	1929.16	-128.88	117.65
19	48	443.46	-185.90	-52.42	-0.06	1680.39	8.05	107.30
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-265.57	-288.53	-114.28	-2.264e+04	-1179.70	107.30
			-94.87	-7.70	-0.06	8304.83	2.145e+04	1958.36

Macro	Tipo	Angolo 1-Z (gradi)
21	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
21	2	343.46	-167.50	23.78	0.01	-3562.15	-0.46	1.24
21	2	346.92	-230.82	225.72	0.03	2154.55	-0.37	4.84
21	2	350.92	-34.86	497.97	0.05	3.095e+04	0.15	11.87
21	2	354.92	91.73	186.94	0.06	3.007e+04	0.42	18.92
21	2	359.10	-56.93	-71.17	0.11	1704.24	0.66	27.31
21	2	443.46	-61.16	-12.81	0.08	8752.36	0.06	26.51
21	14	343.46	-72.25	-10.39	-61.70	-2261.72	346.52	-3805.55
21	14	346.92	-122.40	85.60	-64.28	-360.51	759.29	-8436.47
21	14	350.92	-42.40	231.09	-57.28	1.374e+04	551.13	-1.334e+04
21	14	354.92	15.78	93.63	-50.10	1.443e+04	398.61	-1.679e+04
21	14	359.10	-58.90	-30.54	-44.21	1499.85	538.38	-1.935e+04
21	14	443.46	-56.11	-10.61	29.07	4690.87	709.08	-1.631e+04
21	47	343.46	-61.37	-22.10	0.02	-2238.42	-0.31	1.73
21	47	346.92	-107.30	62.98	0.04	-426.41	-0.37	5.32
21	47	350.92	-37.64	184.42	0.05	1.184e+04	-2.53e-03	11.35
21	47	354.92	6.53	60.13	0.06	1.178e+04	0.30	17.66
21	47	359.10	-63.91	-34.97	0.11	515.52	0.51	25.18
21	47	443.46	-59.58	-18.90	0.07	3911.69	-0.12	24.09
21	48	343.46	-61.37	-22.10	0.02	-2238.42	-0.31	1.73
21	48	346.92	-107.30	62.98	0.04	-426.41	-0.37	5.32
21	48	350.92	-37.64	184.42	0.05	1.184e+04	-2.53e-03	11.35
21	48	354.92	6.53	60.13	0.06	1.178e+04	0.30	17.66
21	48	359.10	-63.91	-34.97	0.11	515.52	0.51	25.18
21	48	443.46	-59.58	-18.90	0.07	3911.69	-0.12	24.09
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-230.82	-71.17	-64.28	-3562.15	-0.46	-1.935e+04
			91.73	497.97	29.07	3.095e+04	759.29	27.31

Macro	Tipo	Angolo 1-Z (gradi)
103	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
103	2	347.51	29.20	-7.72	-0.03	818.51	-0.48	-3.04
103	2	351.27	-16.72	45.19	-0.02	6818.68	-0.39	0.93
103	2	355.70	-48.06	-29.65	-0.01	4838.35	1.13	-6.04
103	2	360.13	-40.21	-18.36	-0.03	3789.61	-0.14	-5.60
103	2	364.56	-54.61	18.58	-0.03	5982.32	0.30	-6.38
103	2	368.99	-82.05	46.23	-0.03	1.035e+04	0.41	-8.15
103	2	373.42	-110.94	36.83	-0.03	1.466e+04	0.40	-9.09
103	2	443.46	-130.06	57.03	-0.08	1.193e+04	-0.29	-9.50
103	14	347.51	8.27	-18.44	119.13	1152.29	-497.09	8578.32
103	14	351.27	-8.18	-16.52	155.65	3519.89	-1452.13	1.762e+04

RELAZIONE DI RESISTENZA AL FUOCO



103	14	355.70	-18.14	-40.35	186.72	4047.17	-2134.23	2.657e+04
103	14	360.13	-19.89	-30.65	216.75	5389.47	-2617.14	3.356e+04
103	14	364.56	-30.58	-9.79	246.16	8135.83	-2955.41	3.860e+04
103	14	368.99	-47.20	7.44	274.82	1.192e+04	-3157.31	4.175e+04
103	14	373.42	-64.63	11.63	305.15	1.561e+04	-3189.42	4.343e+04
103	14	443.46	-100.40	23.39	613.39	9367.63	-2288.47	5.149e+04
103	43	347.51	1.16	5.97	-0.04	626.55	-0.69	-2.08
103	43	351.27	-29.63	50.74	-0.03	3121.94	-0.36	0.95
103	43	355.70	-63.24	58.07	-0.02	3359.27	1.02	-6.01
103	43	360.13	-83.45	72.18	-0.03	3428.92	0.03	-6.35
103	43	364.56	-106.34	78.50	-0.03	3822.05	0.44	-8.62
103	43	368.99	-127.14	76.24	-0.02	3762.57	0.57	-10.38
103	43	373.42	-146.63	68.78	5.92e-04	3474.52	0.76	-14.40
103	43	443.46	-152.00	53.61	-0.02	1496.49	0.28	-14.59
103	46	347.51	11.03	4.38	-0.03	680.80	-1.01	-0.82
103	46	351.27	-19.28	53.77	-0.01	3817.68	-0.63	4.27
103	46	355.70	-45.03	47.51	6.53e-03	3071.77	1.03	-2.78
103	46	360.13	-52.39	72.16	-0.01	2711.65	-0.24	-2.00
103	46	364.56	-70.51	95.02	-8.90e-03	3795.26	0.12	-3.20
103	46	368.99	-91.68	102.43	-3.86e-03	5269.17	0.15	-3.60
103	46	373.42	-111.82	84.71	0.01	6400.76	0.27	-6.10
103	46	443.46	-117.73	75.71	0.03	2323.68	0.09	-5.60
103	47	347.51	2.82	-1.87	-0.02	352.61	0.13	-2.91
103	47	351.27	-20.98	18.88	-0.03	2596.25	0.11	-3.28
103	47	355.70	-44.92	-3.50	-0.03	2598.04	0.54	-6.60
103	47	360.13	-55.06	-7.98	-0.04	2520.08	0.23	-7.61
103	47	364.56	-67.99	-6.13	-0.04	2906.96	0.50	-9.18
103	47	368.99	-82.15	-2.27	-0.04	3506.12	0.67	-11.59
103	47	373.42	-96.60	2.72	-0.03	4168.93	0.73	-13.74
103	47	443.46	-105.30	6.21	-0.09	5055.99	0.06	-14.72
103	48	347.51	2.82	-1.87	-0.02	352.61	0.13	-2.91
103	48	351.27	-20.98	18.88	-0.03	2596.25	0.11	-3.28
103	48	355.70	-44.92	-3.50	-0.03	2598.04	0.54	-6.60
103	48	360.13	-55.06	-7.98	-0.04	2520.08	0.23	-7.61
103	48	364.56	-67.99	-6.13	-0.04	2906.96	0.50	-9.18
103	48	368.99	-82.15	-2.27	-0.04	3506.12	0.67	-11.59
103	48	373.42	-96.60	2.72	-0.03	4168.93	0.73	-13.74
103	48	443.46	-105.30	6.21	-0.09	5055.99	0.06	-14.72
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-152.00	-40.35	-0.09	352.61	-3189.42	-14.72
			29.20	102.43	613.39	1.561e+04	1.13	5.149e+04

Macro	Tipo	Angolo 1-Z (gradi)
107	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
107	25	347.51	-14.44	-14.35	-113.13	195.98	463.84	-8014.54
107	25	351.27	-26.32	-26.19	-148.21	98.63	1365.26	-1.641e+04
107	25	355.70	-39.16	-22.73	-178.18	554.57	1999.33	-2.457e+04
107	25	360.13	-55.68	-19.52	-206.99	1156.81	2436.76	-3.078e+04
107	25	364.56	-71.50	-14.47	-233.93	1700.05	2738.51	-3.506e+04
107	25	368.99	-86.77	-4.15	-257.30	2125.21	2840.62	-3.794e+04
107	25	443.46	-90.69	-1.69	-564.60	4752.43	2222.48	-4.587e+04
107	40	347.51	7.86	-1.56	0.06	223.42	0.84	4.78
107	40	351.27	-36.98	48.05	0.05	3734.52	-0.04	3.91
107	40	355.70	-63.94	6.82	0.04	53.10	-2.26	17.72
107	40	360.13	-61.04	39.48	0.07	-2763.77	-1.12	22.91
107	40	364.56	-79.85	86.44	0.06	-2586.21	-1.98	30.34
107	40	368.99	-114.78	108.74	0.02	649.14	-2.34	38.57
107	40	443.46	-93.28	103.34	0.17	432.18	-1.07	42.28
107	43	347.51	-6.89	8.88	0.04	378.45	0.74	2.62
107	43	351.27	-46.07	64.07	0.03	2387.25	0.11	0.99
107	43	355.70	-87.75	79.83	0.02	1524.74	-1.42	10.22
107	43	360.13	-113.42	101.08	0.04	88.75	-0.44	12.41
107	43	364.56	-140.15	113.78	0.04	-1310.75	-1.10	16.71
107	43	368.99	-165.29	116.21	0.02	-3017.29	-1.28	21.69
107	43	443.46	-145.21	90.08	0.08	-2839.23	-0.61	23.00
107	46	347.51	1.30	5.50	0.05	536.91	0.99	2.96

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



107	46	351.27	-36.63	59.64	0.04	3004.46	0.16	0.88
107	46	355.70	-67.56	60.79	0.02	1055.13	-1.83	12.53
107	46	360.13	-78.93	94.47	0.05	-737.64	-0.68	15.83
107	46	364.56	-100.74	125.85	0.04	-1173.29	-1.43	21.49
107	46	368.99	-128.81	135.54	0.02	-413.93	-1.66	27.68
107	46	443.46	-110.69	113.01	0.09	-3057.95	-0.81	29.68
107	47	347.51	-7.22	0.35	0.02	-380.86	-0.18	3.14
107	47	351.27	-35.15	20.67	0.03	1090.15	-0.29	4.68
107	47	355.70	-62.74	-2.57	0.03	-55.99	-0.68	8.69
107	47	360.13	-75.94	-7.85	0.04	-1486.94	-0.51	10.82
107	47	364.56	-91.54	-5.77	0.04	-2579.36	-0.81	13.50
107	47	368.99	-108.51	0.78	0.02	-3429.48	-1.03	17.06
107	47	443.46	-92.49	3.88	0.12	2884.62	-0.39	18.99
107	48	347.51	-7.22	0.35	0.02	-380.86	-0.18	3.14
107	48	351.27	-35.15	20.67	0.03	1090.15	-0.29	4.68
107	48	355.70	-62.74	-2.57	0.03	-55.99	-0.68	8.69
107	48	360.13	-75.94	-7.85	0.04	-1486.94	-0.51	10.82
107	48	364.56	-91.54	-5.77	0.04	-2579.36	-0.81	13.50
107	48	368.99	-108.51	0.78	0.02	-3429.48	-1.03	17.06
107	48	443.46	-92.49	3.88	0.12	2884.62	-0.39	18.99
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-165.29	-26.19	-564.60	-3429.48	-2.34	-4.587e+04
			7.86	135.54	0.17	4752.43	2840.62	42.28

Macro	Tipo	Angolo 1-Z (gradi)
62	Setto	0.0

M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
62	11	344.03	-1.53	10.06	-41.05	-65.00	226.33	-2327.70
62	11	348.06	-18.34	-6.63	-43.65	-801.67	443.87	-5200.59
62	11	352.09	-49.84	-15.97	-39.50	-2188.74	376.07	-7688.18
62	11	356.12	-89.91	-6.49	-34.53	-4071.94	347.39	-9358.77
62	11	360.15	-118.38	34.00	-29.38	-3310.36	383.47	-1.014e+04
62	11	362.59	-118.93	59.06	-25.76	-117.94	426.79	-1.018e+04
62	11	365.02	-107.01	59.70	-22.26	5043.16	484.50	-9869.18
62	11	367.46	-108.72	34.92	-18.30	6986.69	558.16	-9208.04
62	11	371.64	-135.51	-8.54	-9.50	4860.02	718.48	-7268.51
62	11	375.82	-162.47	-15.49	16.24	3845.18	920.83	-4526.81
62	11	443.46	-144.68	2.28	317.68	6674.39	138.10	1968.29
62	13	344.03	2.08	-2.18	-41.04	-234.49	226.31	-2327.10
62	13	348.06	-13.79	-15.93	-43.64	-930.48	443.81	-5199.29
62	13	352.09	-38.62	-22.88	-39.49	-1912.95	376.02	-7686.07
62	13	356.12	-68.24	-16.31	-34.52	-3117.16	347.33	-9355.98
62	13	360.15	-90.30	11.20	-29.37	-2585.24	383.44	-1.014e+04
62	13	362.59	-93.05	29.02	-25.75	-507.33	426.78	-1.018e+04
62	13	365.02	-86.92	31.37	-22.25	3000.52	484.50	-9864.74
62	13	367.46	-89.31	17.08	-18.29	4479.73	558.15	-9203.15
62	13	371.64	-108.76	-9.09	-9.49	3473.25	718.53	-7262.74
62	13	375.82	-128.22	-9.85	16.25	3239.06	920.91	-4519.95
62	13	443.46	-112.94	-1.77	317.77	4852.26	137.93	1976.41
62	25	344.03	-14.55	35.17	82.05	153.16	-452.50	4652.64
62	25	348.06	-22.65	37.72	87.24	236.95	-887.62	1.039e+04
62	25	352.09	-40.46	36.93	78.95	-327.39	-751.96	1.536e+04
62	25	356.12	-65.99	41.41	69.01	-1479.28	-694.20	1.870e+04
62	25	360.15	-84.12	63.47	58.71	-924.70	-766.83	2.027e+04
62	25	362.59	-85.22	77.39	51.47	1032.44	-853.64	2.034e+04
62	25	365.02	-78.44	74.61	44.48	4227.94	-968.94	1.972e+04
62	25	367.46	-80.28	54.18	36.55	5388.19	-1116.18	1.839e+04
62	25	371.64	-97.20	17.09	18.94	4289.71	-1437.19	1.451e+04
62	25	375.82	-116.82	-8.10	-32.52	3109.85	-1842.11	9017.60
62	25	443.46	-108.15	14.01	-635.92	8734.95	-275.45	-3980.96
62	28	344.03	-22.52	73.80	-0.10	1317.40	0.13	-4.99
62	28	348.06	-16.62	55.69	-0.12	1474.54	0.48	-12.66
62	28	352.09	-42.14	39.76	-0.12	-486.66	0.33	-21.20
62	28	356.12	-87.69	52.16	-0.12	-3866.14	0.13	-29.91
62	28	360.15	-111.99	110.78	-0.12	-2478.52	-0.30	-38.47
62	28	362.59	-94.12	134.37	-0.11	3505.97	-0.35	-44.44
62	28	365.02	-62.12	108.67	-0.10	1.141e+04	0.03	-48.99

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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62	28	367.46	-61.77	39.76	-0.10	1.207e+04	-0.18	-53.37
62	28	371.64	-107.11	-48.88	-0.12	3046.03	-0.87	-63.20
62	28	375.82	-147.51	-41.75	-0.14	-2368.63	-1.23	-75.70
62	28	443.46	-141.05	4.10	-1.07	4926.27	1.73	-91.56
62	47	344.03	-8.98	29.26	-0.03	302.06	0.06	-1.94
62	47	348.06	-15.86	20.45	-0.04	82.15	0.19	-4.23
62	47	352.09	-37.61	13.36	-0.04	-1027.45	0.16	-6.93
62	47	356.12	-69.01	20.47	-0.04	-2794.07	0.18	-9.17
62	47	360.15	-89.26	54.36	-0.04	-2055.74	0.06	-11.56
62	47	362.59	-85.63	73.22	-0.04	950.56	0.02	-13.14
62	47	365.02	-72.14	68.04	-0.03	5443.51	0.06	-14.59
62	47	367.46	-72.62	39.37	-0.03	6687.55	0.04	-15.94
62	47	371.64	-95.72	-6.13	-0.04	3813.46	-0.14	-18.78
62	47	375.82	-118.90	-17.44	-0.05	1973.24	-0.24	-22.38
62	47	443.46	-108.94	6.72	-0.30	5818.73	0.55	-26.63
62	48	344.03	-8.98	29.26	-0.03	302.06	0.06	-1.94
62	48	348.06	-15.86	20.45	-0.04	82.15	0.19	-4.23
62	48	352.09	-37.61	13.36	-0.04	-1027.45	0.16	-6.93
62	48	356.12	-69.01	20.47	-0.04	-2794.07	0.18	-9.17
62	48	360.15	-89.26	54.36	-0.04	-2055.74	0.06	-11.56
62	48	362.59	-85.63	73.22	-0.04	950.56	0.02	-13.14
62	48	365.02	-72.14	68.04	-0.03	5443.51	0.06	-14.59
62	48	367.46	-72.62	39.37	-0.03	6687.55	0.04	-15.94
62	48	371.64	-95.72	-6.13	-0.04	3813.46	-0.14	-18.78
62	48	375.82	-118.90	-17.44	-0.05	1973.24	-0.24	-22.38
62	48	443.46	-108.94	6.72	-0.30	5818.73	0.55	-26.63
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-162.47	-48.88	-635.92	-4071.94	-1842.11	-1.018e+04
			2.08	134.37	317.77	1.207e+04	920.91	2.034e+04

Macro	Tipo	Angolo 1-Z (gradi)
112	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
112	2	344.08	115.18	-170.98	-0.26	-1457.47	-0.41	-18.40
112	2	348.15	70.34	-292.28	-0.22	-7143.79	0.82	-23.85
112	2	352.23	-30.66	-381.33	-0.14	-1.649e+04	2.67	-29.23
112	2	356.30	-196.85	-333.51	-0.03	-3.114e+04	6.80	-14.53
112	2	360.66	-187.67	45.11	0.30	-7061.91	4.79	4.00
112	2	443.46	-162.22	-35.76	0.52	-1.121e+04	2.37	22.30
112	35	344.08	38.70	-56.49	1.88	-546.08	-16.22	130.34
112	35	348.15	20.74	-104.85	2.10	-2381.57	-34.84	300.16
112	35	352.23	-15.16	-147.65	1.35	-5349.58	-49.01	437.10
112	35	356.30	-71.47	-145.89	-1.56	-9796.58	-86.42	437.48
112	35	360.66	-92.38	-36.49	-17.93	-5831.36	-52.68	148.91
112	35	443.46	-74.87	-80.93	-20.24	-1827.92	-28.00	-484.66
112	47	344.08	50.13	-73.81	-0.06	-786.46	-0.07	-4.82
112	47	348.15	22.73	-130.33	-0.04	-3531.53	0.25	-5.34
112	47	352.23	-30.61	-171.65	-0.03	-7803.89	0.72	-5.94
112	47	356.30	-111.07	-150.24	0.01	-1.412e+04	1.98	-0.82
112	47	360.66	-111.87	17.99	0.11	-2918.96	1.47	6.02
112	47	443.46	-96.45	-16.65	0.16	-4397.59	0.51	10.78
112	48	344.08	50.13	-73.81	-0.06	-786.46	-0.07	-4.82
112	48	348.15	22.73	-130.33	-0.04	-3531.53	0.25	-5.34
112	48	352.23	-30.61	-171.65	-0.03	-7803.89	0.72	-5.94
112	48	356.30	-111.07	-150.24	0.01	-1.412e+04	1.98	-0.82
112	48	360.66	-111.87	17.99	0.11	-2918.96	1.47	6.02
112	48	443.46	-96.45	-16.65	0.16	-4397.59	0.51	10.78
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-196.85	-381.33	-20.24	-3.114e+04	-86.42	-484.66
			115.18	45.11	2.10	-546.08	6.80	437.48

Macro	Tipo	Angolo 1-Z (gradi)
111	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
111	2	344.13	117.67	-160.99	0.28	-1169.65	0.63	15.47
111	2	348.26	73.93	-291.01	0.26	-7242.14	-1.65	26.92
111	2	352.40	-33.41	-388.66	0.25	-1.754e+04	-0.45	32.61
111	2	356.53	-210.43	-334.31	0.12	-3.338e+04	-1.88	47.63
111	2	360.66	-190.85	47.85	-0.37	-7930.79	-3.04	25.54
111	2	443.46	-165.03	-35.43	-0.61	-1.182e+04	-2.76	13.72
111	34	344.13	90.52	-108.48	-1.78	-774.70	16.97	-126.80
111	34	348.26	57.98	-211.10	-2.00	-5280.48	34.79	-291.92
111	34	352.40	-18.00	-303.19	-1.21	-1.260e+04	50.97	-424.16
111	34	356.53	-140.74	-286.83	1.75	-2.342e+04	83.95	-390.95
111	34	360.66	-151.32	-38.33	17.60	-1.017e+04	52.56	-128.63
111	34	443.46	-125.17	-109.06	19.83	-6081.58	26.93	506.08
111	47	344.13	51.19	-70.33	0.09	-685.27	0.15	4.76
111	47	348.26	24.03	-130.49	0.08	-3596.03	-0.55	8.32
111	47	352.40	-32.19	-175.06	0.08	-8275.07	-0.18	10.20
111	47	356.53	-117.41	-150.29	0.04	-1.508e+04	-0.62	14.83
111	47	360.66	-113.49	19.31	-0.12	-3314.22	-0.95	8.15
111	47	443.46	-97.76	-16.69	-0.19	-4695.55	-0.84	4.15
111	48	344.13	51.19	-70.33	0.09	-685.27	0.15	4.76
111	48	348.26	24.03	-130.49	0.08	-3596.03	-0.55	8.32
111	48	352.40	-32.19	-175.06	0.08	-8275.07	-0.18	10.20
111	48	356.53	-117.41	-150.29	0.04	-1.508e+04	-0.62	14.83
111	48	360.66	-113.49	19.31	-0.12	-3314.22	-0.95	8.15
111	48	443.46	-97.76	-16.69	-0.19	-4695.55	-0.84	4.15
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-210.43	-388.66	-2.00	-3.338e+04	-3.04	-424.16
			117.67	47.85	19.83	-685.27	83.95	506.08

Macro	Tipo	Angolo 1-Z (gradi)
113	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
113	4	360.66	55.02	0.10	1.39	-623.41	-1.69e-03	-9.43
113	4	360.66	55.02	0.10	1.39	-623.41	-1.69e-03	-9.43
113	4	360.66	55.02	0.10	1.39	-623.41	-1.69e-03	-9.43
113	4	443.46	55.02	0.10	1.39	-616.24	1.22e-03	-10.68
113	8	360.66	42.13	0.12	1.52	-783.58	-1.84e-03	-7.37
113	8	360.66	42.13	0.12	1.52	-783.58	-1.84e-03	-7.37
113	8	360.66	42.13	0.12	1.52	-783.58	-1.84e-03	-7.37
113	8	443.46	42.13	0.12	1.52	-774.26	1.34e-03	-8.69
113	18	360.66	41.59	0.10	1.50	-640.89	-1.88e-03	-14.54
113	18	360.66	41.59	0.10	1.50	-640.89	-1.88e-03	-14.54
113	18	360.66	41.59	0.10	1.50	-640.89	-1.88e-03	-14.54
113	18	443.46	41.59	0.10	1.50	-633.53	1.34e-03	-15.48
113	33	360.66	-61.08	0.06	48.20	-242.88	-5.59e-03	-5.84
113	33	360.66	-61.08	0.06	48.20	-242.88	-5.59e-03	-5.84
113	33	360.66	-61.08	0.06	48.20	-242.88	-5.59e-03	-5.84
113	33	443.46	-61.08	0.06	48.20	-238.55	8.82e-04	-6.13
113	47	360.66	-17.16	0.05	0.57	-370.20	-8.12e-04	-5.91
113	47	360.66	-17.16	0.05	0.57	-370.20	-8.12e-04	-5.91
113	47	360.66	-17.16	0.05	0.57	-370.20	-8.12e-04	-5.91
113	47	443.46	-17.16	0.06	0.57	-366.08	6.55e-04	-6.21
113	48	360.66	-17.16	0.05	0.57	-370.20	-8.12e-04	-5.91
113	48	360.66	-17.16	0.05	0.57	-370.20	-8.12e-04	-5.91
113	48	360.66	-17.16	0.05	0.57	-370.20	-8.12e-04	-5.91
113	48	443.46	-17.16	0.06	0.57	-366.08	6.55e-04	-6.21
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-61.08	0.05	0.57	-783.58	-5.59e-03	-15.48
			55.02	0.12	48.20	-238.55	1.34e-03	-5.84

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Macro	Tipo	Angolo 1-Z (gradi)
105	Setto	0.0

M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
105	11	363.28	-38.49	-27.52	14.50	46.63	46.63	1162.21
105	11	367.46	-67.96	-12.51	25.39	798.84	156.53	3707.75
105	11	371.64	-85.64	15.58	37.33	2308.39	392.97	8153.37
105	11	375.82	-89.48	37.67	57.16	5436.69	749.90	1.456e+04
105	11	380.00	-101.32	17.01	128.76	5970.07	1230.49	2.291e+04
105	11	443.46	-100.06	19.79	128.76	4920.14	85.27	2.235e+04
105	28	363.28	-54.34	-49.79	-0.05	366.66	0.21	5.65
105	28	367.46	-93.34	-14.46	-0.06	1715.85	0.49	11.42
105	28	371.64	-109.90	39.67	-0.06	4478.53	0.80	17.54
105	28	375.82	-100.08	79.96	-0.05	1.038e+04	1.21	24.18
105	28	380.00	-112.37	34.13	0.02	9892.74	1.54	32.57
105	28	443.46	-109.71	36.77	0.02	8209.54	-0.37	33.14
105	35	363.28	-21.23	-7.07	-0.04	953.17	0.11	3.64
105	35	367.46	-35.05	17.56	-0.04	1409.87	0.28	7.29
105	35	371.64	-44.26	34.59	-0.04	1928.50	0.47	11.13
105	35	375.82	-49.48	44.43	-0.03	2985.92	0.77	15.34
105	35	380.00	-59.44	39.43	0.02	2686.74	1.00	21.26
105	35	443.46	-59.44	31.82	0.02	950.87	-0.29	21.69
105	38	363.28	-60.50	-56.85	-0.08	-492.83	0.39	9.60
105	38	367.46	-106.12	-32.64	-0.09	959.62	1.05	20.44
105	38	371.64	-125.34	23.39	-0.08	4287.09	1.61	31.92
105	38	375.82	-114.41	64.63	-0.07	1.103e+04	2.23	44.21
105	38	380.00	-127.12	7.48	0.04	1.100e+04	2.78	57.71
105	38	443.46	-123.60	17.25	0.04	1.028e+04	-0.41	58.53
105	47	363.28	-33.57	-26.03	-0.05	122.76	0.24	6.25
105	47	367.46	-58.15	-9.54	-0.06	870.42	0.69	13.52
105	47	371.64	-71.09	18.00	-0.06	2349.91	1.05	21.14
105	47	375.82	-70.92	38.29	-0.04	5350.32	1.48	29.32
105	47	380.00	-80.25	16.36	0.03	5507.30	1.86	38.57
105	47	443.46	-79.07	21.45	0.03	4515.19	-0.29	39.19
105	48	363.28	-33.57	-26.03	-0.05	122.76	0.24	6.25
105	48	367.46	-58.15	-9.54	-0.06	870.42	0.69	13.52
105	48	371.64	-71.09	18.00	-0.06	2349.91	1.05	21.14
105	48	375.82	-70.92	38.29	-0.04	5350.32	1.48	29.32
105	48	380.00	-80.25	16.36	0.03	5507.30	1.86	38.57
105	48	443.46	-79.07	21.45	0.03	4515.19	-0.29	39.19

M_S	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
	-127.12	-56.85	-0.09	-492.83	-0.41	3.64
	-21.23	79.96	128.76	1.103e+04	1230.49	2.291e+04

Macro	Tipo	Angolo 1-Z (gradi)
108	Setto	0.0

M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
108	8	373.42	-23.93	37.39	4.24	251.78	6.60	-265.52
108	8	377.85	-48.02	36.99	7.23	-68.41	46.20	-1013.82
108	8	382.28	-65.82	19.97	10.12	-629.34	118.87	-2354.08
108	8	386.71	-85.91	-7.43	12.86	-848.63	220.62	-4319.32
108	8	391.14	-101.27	-39.66	15.95	-1861.06	350.61	-6942.81
108	8	395.57	-98.22	-73.60	22.94	-7341.78	511.97	-1.026e+04
108	8	400.00	-108.53	-21.34	56.60	-6957.28	697.68	-1.445e+04
108	8	443.46	-105.97	-36.99	56.60	-6555.45	22.25	-1.440e+04
108	13	373.42	-12.47	14.04	6.99	-45.17	11.41	-453.66
108	13	377.85	-26.01	24.06	11.97	10.10	77.99	-1711.72
108	13	382.28	-38.81	28.85	16.78	-37.41	199.87	-3958.87
108	13	386.71	-52.52	27.91	21.35	-23.74	369.94	-7248.12
108	13	391.14	-65.34	23.35	26.51	-124.99	587.28	-1.163e+04
108	13	395.57	-75.30	10.51	38.18	-943.39	857.09	-1.718e+04
108	13	400.00	-80.25	-3.58	94.39	-2933.50	1166.93	-2.419e+04

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



108	13	443.46	-80.58	-7.38	94.39	-2983.05	36.64	-2.411e+04
108	18	373.42	-25.64	24.94	-8.30	312.04	-14.15	556.30
108	18	377.85	-49.77	16.51	-14.26	-94.10	-94.66	2078.25
108	18	382.28	-67.74	-4.23	-20.04	-686.44	-241.71	4788.70
108	18	386.71	-86.42	-31.69	-25.53	-1085.06	-446.47	8751.62
108	18	391.14	-99.84	-63.07	-31.72	-2431.46	-707.99	1.403e+04
108	18	395.57	-94.28	-86.96	-45.75	-8311.24	-1032.64	2.071e+04
108	18	400.00	-107.56	-9.87	-113.32	-6670.96	-1404.89	2.913e+04
108	18	443.46	-104.23	-26.80	-113.32	-6411.36	-43.50	2.904e+04
108	24	373.42	-22.90	7.43	-13.89	196.53	-23.28	919.18
108	24	377.85	-43.85	0.55	-23.83	-67.12	-157.05	3447.90
108	24	382.28	-61.42	-11.12	-33.46	-427.63	-401.59	7955.72
108	24	386.71	-78.10	-25.87	-42.60	-822.66	-742.52	1.455e+04
108	24	391.14	-90.89	-44.00	-52.93	-1958.36	-1177.88	2.334e+04
108	24	395.57	-91.48	-52.97	-76.29	-5948.70	-1718.34	3.446e+04
108	24	400.00	-104.83	6.09	-188.83	-4927.51	-2338.51	4.848e+04
108	24	443.46	-102.45	-6.64	-188.83	-5002.40	-72.82	4.832e+04
108	47	373.42	-13.66	2.69	0.02	61.31	-0.12	3.26
108	47	377.85	-27.32	7.58	0.02	62.22	-0.32	6.76
108	47	382.28	-40.02	10.75	0.02	-34.41	-0.53	10.80
108	47	386.71	-52.90	11.57	0.03	-121.88	-0.68	15.03
108	47	391.14	-64.63	10.14	0.02	-401.25	-0.86	19.22
108	47	395.57	-72.50	4.91	0.02	-1622.39	-1.10	24.53
108	47	400.00	-79.66	9.81	-0.03	-2662.35	-1.27	30.18
108	47	443.46	-79.35	4.36	-0.03	-2950.72	0.13	30.38
108	48	373.42	-13.66	2.69	0.02	61.31	-0.12	3.26
108	48	377.85	-27.32	7.58	0.02	62.22	-0.32	6.76
108	48	382.28	-40.02	10.75	0.02	-34.41	-0.53	10.80
108	48	386.71	-52.90	11.57	0.03	-121.88	-0.68	15.03
108	48	391.14	-64.63	10.14	0.02	-401.25	-0.86	19.22
108	48	395.57	-72.50	4.91	0.02	-1622.39	-1.10	24.53
108	48	400.00	-79.66	9.81	-0.03	-2662.35	-1.27	30.18
108	48	443.46	-79.35	4.36	-0.03	-2950.72	0.13	30.38

M_S

N memb.

V memb.

V orto

M memb.

M orto

T

-108.53

-86.96

-188.83

-8311.24

-2338.51

-2.419e+04

-12.47

37.39

94.39

312.04

1166.93

4.848e+04

Macro	Tipo	Angolo 1-Z (gradi)
102	Setto	0.0

M_S	Cmb	Z cm	N memb. daN	V memb. daN	V orto daN	M memb. daN cm	M orto daN cm	T daN cm
102	11	377.85	-19.17	-7.90	5.45	82.22	63.24	-1821.79
102	11	382.28	-35.79	-13.03	13.53	-51.17	252.93	-5315.23
102	11	386.71	-50.48	-18.06	21.45	-364.53	546.75	-1.076e+04
102	11	391.14	-60.83	-19.07	25.24	-1231.50	995.79	-1.820e+04
102	11	395.57	-64.74	-14.77	-4.80	-3141.13	1692.65	-2.768e+04
102	11	400.00	-71.62	27.06	-173.41	-4405.19	1031.75	-3.285e+04
102	11	443.46	-71.03	19.48	-4.80	-1505.65	1367.13	-3.004e+04
102	28	377.85	-28.02	-19.24	-0.02	-585.29	-2.06e-03	-1.78
102	28	382.28	-49.92	-58.73	-0.02	-811.67	0.03	-2.42
102	28	386.71	-68.11	-109.84	-0.01	-1185.53	0.29	-4.80
102	28	391.14	-75.51	-169.68	-0.02	-3187.07	0.34	-6.85
102	28	395.57	-55.49	-206.30	-0.03	-9989.75	0.52	-8.87
102	28	400.00	-60.12	-24.47	-0.07	-8049.59	0.38	-11.03
102	28	443.46	-59.89	-70.05	-0.03	-1846.11	0.39	-9.71
102	33	377.85	-19.14	-4.86	-0.03	48.82	0.13	-3.46
102	33	382.28	-37.43	-9.72	-0.03	29.30	0.32	-6.93
102	33	386.71	-54.65	-18.91	-0.03	-55.53	0.59	-11.31
102	33	391.14	-70.16	-33.65	-0.03	-395.42	0.84	-15.90
102	33	395.57	-80.44	-42.52	-0.05	-1794.12	1.20	-21.19
102	33	400.00	-73.24	-11.35	-0.13	-6393.98	0.81	-23.62
102	33	443.46	-74.05	-22.29	-0.05	-949.44	0.63	-22.47
102	45	377.85	-11.39	7.77	-0.02	-72.18	0.11	-2.30
102	45	382.28	-21.84	13.75	-0.02	-177.57	0.19	-4.77
102	45	386.71	-30.77	24.39	-0.02	-441.02	0.24	-6.89
102	45	391.14	-36.15	40.84	-0.03	-1191.94	0.34	-9.30
102	45	395.57	-35.67	47.45	-0.04	-2751.35	0.46	-11.34
102	45	400.00	-54.81	47.43	-0.07	-947.14	0.32	-13.30

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



102	45	443.46	-52.40	44.44	-0.04	-2068.50	0.06	-12.36
102	47	377.85	-13.98	-0.26	-0.02	22.27	0.08	-2.30
102	47	382.28	-27.41	-1.47	-0.02	-10.01	0.20	-4.53
102	47	386.71	-39.61	-4.64	-0.02	-145.77	0.36	-7.27
102	47	391.14	-49.25	-10.16	-0.02	-659.19	0.49	-10.11
102	47	395.57	-52.77	-14.93	-0.03	-2244.47	0.70	-13.12
102	47	400.00	-55.47	10.87	-0.08	-3778.98	0.48	-15.02
102	47	443.46	-55.05	1.32	-0.03	-1267.07	0.35	-14.06
102	48	377.85	-13.98	-0.26	-0.02	22.27	0.08	-2.30
102	48	382.28	-27.41	-1.47	-0.02	-10.01	0.20	-4.53
102	48	386.71	-39.61	-4.64	-0.02	-145.77	0.36	-7.27
102	48	391.14	-49.25	-10.16	-0.02	-659.19	0.49	-10.11
102	48	395.57	-52.77	-14.93	-0.03	-2244.47	0.70	-13.12
102	48	400.00	-55.47	10.87	-0.08	-3778.98	0.48	-15.02
102	48	443.46	-55.05	1.32	-0.03	-1267.07	0.35	-14.06

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-80.44	-206.30	-173.41	-9989.75	-2.06e-03	-3.285e+04
	-11.39	47.45	25.24	82.22	1692.65	-1.78

Macro	Tipo	Angolo 1-Z (gradi)
110	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
110	11	380.00	-4.47e-06	-9.18e-06	-0.28	-4244.95	-1.45	-4.63
110	11	443.46	1.62e-05	-9.90e-06	1.41	1670.85	-7.27	-21.24
110	13	380.00	-4.70e-06	-9.52e-06	-0.20	-3585.06	-0.79	-1.80
110	13	443.46	1.60e-05	-9.50e-06	0.80	2012.71	-4.15	-12.13
110	34	380.00	1.89e-06	1.07e-06	-8.01	-2340.29	-21.62	-5.23
110	34	443.46	0.0	0.0	14.94	-1333.78	-58.94	-155.48
110	47	380.00	0.0	0.0	-0.20	-1667.73	-1.59	-6.89
110	47	443.46	0.0	-1.13e-06	1.46	-905.97	-7.51	-21.89
110	48	380.00	0.0	0.0	-0.20	-1667.73	-1.59	-6.89
110	48	443.46	0.0	-1.13e-06	1.46	-905.97	-7.51	-21.89

M_S	N memb.	V memb.	V orto	M memb.	M orto	T
	-4.70e-06	-9.90e-06	-8.01	-4244.95	-58.94	-155.48
	1.62e-05	1.07e-06	14.94	2012.71	-0.79	-1.80

Macro	Tipo	Angolo 1-Z (gradi)
106	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
106	4	395.05	-1.69	9.48	0.27	155.59	28.12	-35.39
106	4	410.11	-11.56	-13.45	1.01	-368.55	10.30	-32.98
106	4	425.16	-14.80	-10.86	1.02	104.18	0.99	-20.16
106	4	440.21	-10.61	-12.39	0.29	751.97	-0.73	-1.94
106	4	443.46	-9.09	-21.50	0.01	257.68	0.06	2.02
106	23	395.05	-5.36	1.26	35.76	-47.37	1172.69	-47.82
106	23	410.11	-17.15	-7.32	10.37	21.23	774.12	418.41
106	23	425.16	-20.74	-6.18	-1.49	572.33	417.24	697.92
106	23	440.21	-14.04	-5.06	-3.98	1041.91	58.58	732.69
106	23	443.46	-11.96	-7.34	-4.09	256.87	1.16	742.65
106	24	395.05	-4.75	5.33	35.86	15.21	1182.93	-60.60
106	24	410.11	-16.83	-11.34	10.74	-145.89	777.90	406.50
106	24	425.16	-20.46	-9.23	-1.12	447.99	417.63	690.69
106	24	440.21	-14.15	-8.78	-3.87	1046.03	58.32	732.05
106	24	443.46	-12.10	-13.72	-4.09	301.18	1.19	743.41
106	28	395.05	-2.18	14.01	0.15	237.62	24.38	-35.64
106	28	410.11	-14.09	-9.76	0.97	-349.77	8.00	-33.42
106	28	425.16	-18.41	-10.64	1.02	116.97	-0.15	-20.71
106	28	440.21	-12.82	-14.87	0.29	846.51	-0.91	-2.19

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106	28	443.46	-10.91	-26.50	0.01	217.20	0.06	1.92
106	47	395.05	-2.58	1.28	0.07	48.84	7.58	-9.86
106	47	410.11	-11.87	-5.17	0.28	-39.02	2.72	-9.18
106	47	425.16	-15.16	-4.70	0.28	333.08	0.18	-5.74
106	47	440.21	-10.23	-5.05	0.08	726.15	-0.22	-0.67
106	47	443.46	-8.67	-9.18	2.36e-03	156.86	0.01	0.49
106	48	395.05	-2.58	1.28	0.07	48.84	7.58	-9.86
106	48	410.11	-11.87	-5.17	0.28	-39.02	2.72	-9.18
106	48	425.16	-15.16	-4.70	0.28	333.08	0.18	-5.74
106	48	440.21	-10.23	-5.05	0.08	726.15	-0.22	-0.67
106	48	443.46	-8.67	-9.18	2.36e-03	156.86	0.01	0.49
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-20.74	-26.50	-4.09	-368.55	-0.91	-60.60
			-1.69	14.01	35.86	1046.03	1182.93	743.41

Macro	Tipo	Angolo 1-Z (gradi)
104	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
104	2	395.86	4.73	51.20	-0.05	1524.13	1.55	7.03
104	2	411.73	-6.61	16.99	-0.11	-67.21	-0.13	4.94
104	2	427.59	-15.58	14.11	-0.10	-426.26	0.11	3.99
104	2	443.46	-15.73	27.46	-0.10	462.88	0.03	3.23
104	2	443.46	-15.73	27.46	-0.10	462.88	0.03	3.23
104	13	395.86	-4.06	17.94	8.04	461.83	-132.13	-742.53
104	13	411.73	-10.77	8.62	10.10	78.82	-245.38	-1386.70
104	13	427.59	-15.86	5.24	9.90	64.28	-163.59	-1707.58
104	13	443.46	-15.41	7.71	8.41	751.06	10.42	-1830.52
104	13	443.46	-15.41	7.71	8.41	751.06	10.42	-1830.52
104	33	395.86	-5.61	14.21	9.90e-03	459.25	-0.29	-1.29
104	33	411.73	-15.49	-9.83	0.02	-42.00	7.80e-03	-0.98
104	33	427.59	-22.14	-11.97	0.02	224.09	-0.04	-0.92
104	33	443.46	-21.73	-4.96	0.02	1447.72	-5.75e-03	-0.76
104	33	443.46	-21.73	-4.96	0.02	1447.72	-5.75e-03	-0.76
104	38	395.86	3.51	53.25	-0.07	1489.61	1.95	8.82
104	38	411.73	-7.13	25.01	-0.14	4.11	-0.16	6.23
104	38	427.59	-15.85	20.24	-0.13	-445.29	0.12	4.94
104	38	443.46	-15.59	29.44	-0.13	311.34	0.04	3.97
104	38	443.46	-15.59	29.44	-0.13	311.34	0.04	3.97
104	47	395.86	-0.96	21.18	-0.02	662.15	0.70	3.19
104	47	411.73	-8.96	5.34	-0.05	-20.55	-0.06	2.24
104	47	427.59	-14.31	4.93	-0.05	0.46	0.04	1.78
104	47	443.46	-14.51	11.42	-0.05	733.64	0.01	1.43
104	47	443.46	-14.51	11.42	-0.05	733.64	0.01	1.43
104	48	395.86	-0.96	21.18	-0.02	662.15	0.70	3.19
104	48	411.73	-8.96	5.34	-0.05	-20.55	-0.06	2.24
104	48	427.59	-14.31	4.93	-0.05	0.46	0.04	1.78
104	48	443.46	-14.51	11.42	-0.05	733.64	0.01	1.43
104	48	443.46	-14.51	11.42	-0.05	733.64	0.01	1.43
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-22.14	-11.97	-0.14	-445.29	-245.38	-1830.52
			4.73	53.25	10.10	1524.13	10.42	8.82

Macro	Tipo	Angolo 1-Z (gradi)
109	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
109	8	400.00	-111.51	96.81	0.26	832.70	0.0	-3.11
109	8	443.46	-111.51	96.81	-0.13	6717.08	21.50	25.76
109	18	400.00	-138.04	32.06	0.16	2402.27	0.0	0.10

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109	18	443.46	-138.04	32.06	-0.38	5279.22	21.58	30.96
109	45	400.00	-19.33	-9.21	1.03	718.45	0.0	-353.44
109	45	443.46	-19.33	-9.21	-12.16	163.41	15.63	-13.73
109	46	400.00	-45.71	4.99	1.17	1015.99	0.0	-356.34
109	46	443.46	-45.71	4.99	-11.93	1193.20	23.54	-8.83
109	47	400.00	-60.66	42.78	0.02	699.81	0.0	-0.51
109	47	443.46	-60.66	42.78	-0.11	3859.53	7.28	8.81
109	48	400.00	-60.66	42.78	0.02	699.81	0.0	-0.51
109	48	443.46	-60.66	42.78	-0.11	3859.53	7.28	8.81
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-138.04	-9.21	-12.16	163.41	0.0	-356.34
			-19.33	96.81	1.17	6717.08	23.54	30.96

Macro	Tipo	Angolo 1-Z (gradi)
121	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
121	2	400.00	-1257.89	-353.84	2.19	-1.155e+05	22.83	75.46
121	2	443.46	-1148.16	-334.68	1.42	-6.544e+04	160.53	81.95
121	2	460.00	-1189.71	-391.50	2.12	-1.543e+05	178.92	89.40
121	2	540.00	-511.64	-345.69	-2.22	-1.035e+05	-5.98	45.44
121	28	400.00	-1215.20	-401.09	51.95	-1.055e+05	17.47	91.78
121	28	443.46	-1104.71	-381.60	50.63	-6.009e+04	2545.57	35.55
121	28	460.00	-1155.50	-433.72	49.47	-1.444e+05	3573.22	27.43
121	28	540.00	-507.36	-383.85	-40.62	-9.491e+04	8.84	25.27
121	44	400.00	-845.37	-56.32	-166.33	-7.170e+04	34.69	38.17
121	44	443.46	-814.17	-46.15	-165.51	-4.274e+04	-8014.59	182.96
121	44	460.00	-785.47	-83.37	-154.58	-9.219e+04	-1.132e+04	229.03
121	44	540.00	-291.30	-57.24	128.80	-6.252e+04	-49.67	20.80
121	45	400.00	-401.76	73.97	-167.04	-2.363e+04	25.70	5.38
121	45	443.46	-428.26	76.95	-165.92	-2.058e+04	-8068.77	151.30
121	45	460.00	-368.03	63.87	-155.52	-2.983e+04	-1.139e+04	194.52
121	45	540.00	-117.63	74.83	129.56	-2.211e+04	-47.38	5.48
121	47	400.00	-611.40	-184.66	1.43	-3.926e+04	9.75	19.11
121	47	443.46	-616.73	-176.40	1.08	-4.170e+04	96.33	33.08
121	47	460.00	-585.54	-192.37	0.53	-5.794e+04	96.39	36.29
121	47	540.00	-278.20	-162.99	-1.29	-4.556e+04	-2.58	24.10
121	48	400.00	-611.40	-184.66	1.43	-3.926e+04	9.75	19.11
121	48	443.46	-616.73	-176.40	1.08	-4.170e+04	96.33	33.08
121	48	460.00	-585.54	-192.37	0.53	-5.794e+04	96.39	36.29
121	48	540.00	-278.20	-162.99	-1.29	-4.556e+04	-2.58	24.10
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1257.89	-433.72	-167.04	-1.543e+05	-1.139e+04	5.38
			-117.63	76.95	129.56	-2.058e+04	3573.22	229.03

Macro	Tipo	Angolo 1-Z (gradi)
126	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
126	2	400.00	-670.32	226.55	1.06	-1.767e+04	1.97	36.74
126	2	443.46	-681.90	196.18	1.06	-8970.46	125.84	-3.58
126	2	460.00	-605.08	197.03	-1.27	3674.08	106.07	-37.07
126	2	540.00	-189.17	230.80	-0.78	-1.669e+04	-4.75	-83.83
126	28	400.00	-653.85	242.72	19.22	-1.801e+04	-0.90	-79.86
126	28	443.46	-663.34	216.66	19.22	-8263.74	1000.46	-66.10
126	28	460.00	-593.38	229.96	10.83	3635.40	1371.64	-33.22
126	28	540.00	-184.22	259.07	-14.38	-1.472e+04	1.33	21.45
126	44	400.00	-415.54	37.02	-56.30	-4943.72	12.98	404.22
126	44	443.46	-428.20	10.03	-56.30	-4905.26	-2776.86	164.44
126	44	460.00	-354.91	-21.26	-42.03	4001.04	-4097.59	-49.87

RELAZIONE DI RESISTENZA AL FUOCO



126	44	540.00	-121.12	22.30	42.94	-1.216e+04	-21.66	-427.78
126	45	400.00	-174.60	-58.30	-56.75	2106.22	12.15	389.03
126	45	443.46	-183.12	-72.12	-56.75	-1482.94	-2829.12	166.07
126	45	460.00	-136.00	-97.09	-41.50	2605.31	-4141.59	-34.38
126	45	540.00	-57.57	-69.42	43.26	-5611.52	-19.69	-392.83
126	47	400.00	-306.36	37.82	0.25	-5801.31	0.52	10.30
126	47	443.46	-313.61	31.22	0.25	-4488.43	34.04	-0.47
126	47	460.00	-271.40	52.38	-0.35	673.57	28.68	-10.09
126	47	540.00	-106.08	58.41	-0.20	-7271.50	-1.36	-22.98
126	48	400.00	-306.36	37.82	0.25	-5801.31	0.52	10.30
126	48	443.46	-313.61	31.22	0.25	-4488.43	34.04	-0.47
126	48	460.00	-271.40	52.38	-0.35	673.57	28.68	-10.09
126	48	540.00	-106.08	58.41	-0.20	-7271.50	-1.36	-22.98
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-681.90	-97.09	-56.75	-1.801e+04	-4141.59	-427.78
			-57.57	259.07	43.26	4001.04	1371.64	404.22

Macro	Tipo	Angolo 1-Z (gradi)
122	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
122	2	400.00	-635.03	776.81	9.35	-1.186e+04	-1.32e-06	-73.03
122	2	460.00	-635.03	776.81	9.35	3.474e+04	535.81	-79.82
122	2	540.00	-379.27	760.21	-7.19	1.451e+04	92.24	-73.09
122	44	400.00	-500.58	281.09	-81.01	7518.74	-9.29e-06	685.13
122	44	460.00	-500.58	281.09	-81.01	2.439e+04	-7248.89	272.41
122	44	540.00	-221.66	252.81	65.73	7768.70	314.65	-734.81
122	45	400.00	-299.75	-38.92	-84.77	1.368e+04	-8.85e-06	715.15
122	45	460.00	-299.75	-38.92	-84.77	1.136e+04	-7464.82	305.28
122	45	540.00	-89.66	-57.96	68.62	2124.98	280.80	-705.08
122	47	400.00	-399.43	219.42	3.56	3412.56	0.0	-23.84
122	47	460.00	-399.43	219.42	3.56	1.658e+04	204.87	-25.81
122	47	540.00	-199.48	220.54	-2.79	6563.65	47.63	-25.44
122	48	400.00	-399.43	219.42	3.56	3412.56	0.0	-23.84
122	48	460.00	-399.43	219.42	3.56	1.658e+04	204.87	-25.81
122	48	540.00	-199.48	220.54	-2.79	6563.65	47.63	-25.44
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-635.03	-57.96	-84.77	-1.186e+04	-7464.82	-734.81
			-89.66	776.81	68.62	3.474e+04	535.81	715.15

Macro	Tipo	Angolo 1-Z (gradi)
9	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
9	12	443.46	8.47e-06	8.99e-06	-1.22	3850.11	6.01	-17.29
9	25	443.46	-4.32e-06	-5.06e-06	-0.47	-624.43	2.31	-6.65
9	35	443.46	0.0	0.0	12.60	464.45	-47.03	120.79
9	47	443.46	0.0	0.0	-0.98	896.17	4.87	-14.03
9	48	443.46	0.0	0.0	-0.98	896.17	4.87	-14.03
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-4.32e-06	-5.06e-06	-1.22	-624.43	-47.03	-17.29
			8.47e-06	8.99e-06	12.60	3850.11	6.01	120.79

Macro	Tipo	Angolo 1-Z (gradi)
5	Setto	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
5	2	380.00	-3.15e-06	1.01e-06	-0.70	3517.43	3.32	-33.04
5	12	380.00	-6.69e-06	4.40e-06	-0.52	-333.31	1.95	-21.20
5	25	380.00	7.11e-06	-7.28e-06	-0.20	2567.74	0.75	-8.11
5	26	380.00	6.14e-06	-7.30e-06	-0.34	3205.08	1.42	-14.83
5	47	380.00	0.0	0.0	-0.30	1663.85	1.46	-14.42
5	48	380.00	0.0	0.0	-0.30	1663.85	1.46	-14.42
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6.69e-06	-7.30e-06	-0.70	-333.31	0.75	-33.04
			7.11e-06	4.40e-06	-0.20	3517.43	3.32	-8.11

Macro	Tipo	Angolo 1-Z (gradi)
3	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
3	14	443.46	2.23e-06	0.0	233.68	-429.83	-2415.68	-3856.73
3	33	443.46	6.01e-06	-5.69e-06	-0.04	599.96	0.36	0.52
3	40	443.46	-2.32e-06	0.0	-0.17	424.07	1.74	2.78
3	47	443.46	1.68e-06	0.0	-0.12	910.42	1.27	2.02
3	48	443.46	1.68e-06	0.0	-0.12	910.42	1.27	2.02
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.32e-06	-5.69e-06	-0.17	-429.83	-2415.68	-3856.73
			6.01e-06	0.0	233.68	910.42	1.74	2.78

Macro	Tipo	Angolo 1-Z (gradi)
6	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
6	8	443.46	4.33e-06	-1.64e-06	-0.65	-1830.79	6.61	12.56
6	35	443.46	0.0	-1.15e-06	8.10	587.64	-79.69	-149.94
6	44	443.46	2.67e-06	-2.04e-06	-4.43	-1650.87	43.71	82.32
6	47	443.46	0.0	-1.01e-06	-0.21	-360.35	2.13	4.04
6	48	443.46	0.0	-1.01e-06	-0.21	-360.35	2.13	4.04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			0.0	-2.04e-06	-4.43	-1830.79	-79.69	-149.94
			4.33e-06	-1.01e-06	8.10	587.64	43.71	82.32

Macro	Tipo	Angolo 1-Z (gradi)
2	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
2	30	443.46	0.0	2.84e-06	-4.27	-1240.08	41.84	77.56
2	35	443.46	0.0	2.93e-06	-7.97	430.52	78.66	146.11
2	43	443.46	-1.77e-06	3.60e-06	4.02	-816.07	-39.74	-73.86
2	44	443.46	-1.21e-06	3.70e-06	4.25	-1505.30	-42.09	-78.29
2	47	443.46	0.0	2.16e-06	0.16	-318.26	-1.67	-3.17
2	48	443.46	0.0	2.16e-06	0.16	-318.26	-1.67	-3.17
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			0.0	2.16e-06	0.16	-318.26	-1.67	-3.17
			0.0	2.84e-06	-4.27	-1240.08	41.84	77.56

RELAZIONE DI RESISTENZA AL FUOCO



-1.77e-06	2.16e-06	-7.97	-1505.30	-42.09	-78.29
0.0	3.70e-06	4.25	430.52	78.66	146.11

Macro	Tipo	Angolo 1-Z (gradi)
12	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
12	23	443.46	5.32e-06	0.0	-298.68	-2683.68	2945.42	5407.53
12	25	443.46	5.05e-06	0.0	-298.71	-2163.81	2945.73	5408.11
12	36	443.46	0.0	-1.85e-06	0.14	-1431.65	-1.40	-2.57
12	38	443.46	1.20e-06	-3.76e-06	0.28	-3313.10	-2.85	-5.28
12	47	443.46	1.18e-06	0.0	0.10	-1246.65	-1.03	-1.91
12	48	443.46	1.18e-06	0.0	0.10	-1246.65	-1.03	-1.91
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			0.0	-3.76e-06	-298.71	-3313.10	-2.85	-5.28
			5.32e-06	0.0	0.28	-1246.65	2945.73	5408.11

Macro	Tipo	Angolo 1-Z (gradi)
52	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
52	10	380.00	2.88	-3.62	-75.78	1929.58	80.84	1369.67
52	18	380.00	1.68	-5.61	152.71	1659.65	-163.76	-2767.15
52	23	380.00	-1.54	-4.00	253.93	289.92	-271.88	-4597.80
52	24	380.00	-0.18	-4.82	254.08	867.33	-272.14	-4601.28
52	47	380.00	-0.12	-2.90	0.13	664.23	-0.21	-2.91
52	48	380.00	-0.12	-2.90	0.13	664.23	-0.21	-2.91
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.54	-5.61	-75.78	289.92	-272.14	-4601.28
			2.88	-2.90	254.08	1929.58	80.84	1369.67

Macro	Tipo	Angolo 1-Z (gradi)
51	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
51	20	443.46	0.0	0.0	-3.46	-19.18	-18.97	191.65
51	25	443.46	0.0	1.26e-06	-6.72	1036.89	-36.90	372.81
51	43	443.46	-1.36e-06	0.0	0.45	-143.17	2.45	-24.80
51	47	443.46	-1.05e-06	0.0	0.18	-142.63	1.00	-10.15
51	48	443.46	-1.05e-06	0.0	0.18	-142.63	1.00	-10.15
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.36e-06	0.0	-6.72	-143.17	-36.90	-24.80
			0.0	1.26e-06	0.45	1036.89	2.45	372.81

Macro	Tipo	Angolo 1-Z (gradi)
4	Setto	0.0

RELAZIONE DI RESISTENZA AL FUOCO



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
4	11	400.00	0.0	2.43e-06	0.29	1707.01	0.20	3.63
4	13	400.00	-1.34e-06	2.12e-06	0.31	927.04	0.46	3.15
4	28	400.00	8.92e-06	0.0	-0.44	6338.92	-2.65	0.72
4	44	400.00	7.02e-06	0.0	3.00	4182.72	13.41	7.51
4	47	400.00	3.03e-06	0.0	-0.09	2139.43	-0.81	0.85
4	48	400.00	3.03e-06	0.0	-0.09	2139.43	-0.81	0.85
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.34e-06	0.0	-0.44	927.04	-2.65	0.72
			8.92e-06	2.43e-06	3.00	6338.92	13.41	7.51

Macro	Tipo	Angolo 1-Z (gradi)
129	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
129	25	343.76	-0.93	0.20	301.29	-159.65	-1122.06	-7902.87
129	35	343.76	-1.65	-1.60	-0.07	-105.34	0.30	3.27
129	38	343.76	2.97	3.92	-0.14	-1631.33	0.54	4.55
129	44	343.76	1.74	5.06	-0.09	-603.25	0.35	2.64
129	47	343.76	-0.30	0.68	-0.06	-340.86	0.26	2.63
129	48	343.76	-0.30	0.68	-0.06	-340.86	0.26	2.63
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.65	-1.60	-0.14	-1631.33	-1122.06	-7902.87
			2.97	5.06	301.29	-105.34	0.54	4.55

Macro	Tipo	Angolo 1-Z (gradi)
130	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
130	14	343.76	1.06	0.70	-317.65	-1199.59	1184.27	8373.54
130	35	343.76	-1.05	-4.79	0.05	-325.33	-0.23	-2.74
130	38	343.76	3.64	8.19	-0.02	-2119.50	0.05	-0.19
130	44	343.76	1.99	11.67	-9.75e-03	-974.96	0.03	0.05
130	47	343.76	0.15	0.79	0.03	-592.84	-0.13	-1.63
130	48	343.76	0.15	0.79	0.03	-592.84	-0.13	-1.63
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.05	-4.79	-317.65	-2119.50	-0.23	-2.74
			3.64	11.67	0.05	-325.33	1184.27	8373.54

Macro	Tipo	Angolo 1-Z (gradi)
55	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
55	11	443.46	0.0	0.0	1073.06	-280.96	-2628.19	-1.601e+04
55	25	443.46	3.62e-06	-1.24e-06	-535.94	504.26	1312.64	7995.47
55	28	443.46	-2.78e-05	1.89e-05	0.30	-7963.83	-0.75	-4.57
55	47	443.46	0.0	0.0	0.33	-264.54	-0.81	-4.94
55	48	443.46	0.0	0.0	0.33	-264.54	-0.81	-4.94
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.78e-05	-1.24e-06	-535.94	-7963.83	-2628.19	-1.601e+04
			3.62e-06	1.89e-05	1073.06	504.26	1312.64	7995.47

VERIFICHE DI RESISTENZA AL FUOCO

Legenda tabella verifiche resistenza al fuoco per elementi in cemento armato

Le verifiche di resistenza al fuoco sono condotte in ottemperanza alla UNI EN 1992-1-2:2005 come previsto dal DM Infrastrutture 17 gennaio 2018.

Si precisa che:

- con riferimento alla figura 1. di UNI EN 1992-1-2:2005 "Procedure di progettazione" si è seguito il ramo "progettazione" > "regole prescrittive" > "analisi delle membrature" > calcolo delle azioni" > "modelli di calcolo semplificati" e "modelli di calcolo avanzati";
- l' incendio di progetto, assieme alle regole per l' analisi della temperatura, è previsto come nella sezione 3 di UNI EN-1991-1-2:2005
- i materiali sono definiti come nella sezione 3 di UNI EN 1992-1-2:2005 per quanto concerne proprietà meccaniche e fisiche in funzione della temperatura;
- parametri di riduzione della resistenza per i modelli di calcolo semplificati sono tratti dalla sezione 4 di UNI EN 1992-1-2:2005.

La verifica dello stato limite per sollecitazioni N,M2,M3 è condotta sia per i modelli semplificati che per i modelli avanzati con le usuali ipotesi di conservazione delle sezioni piane ed aderenza acciaio-clt. La verifica dello stato limite per la sollecitazione di taglio V si esplica nel controllo della minor sicurezza lato acciaio (taglio portato dall' armatura trasversale) e lato clt (verifica della biella compressa).

I modelli semplificati adottano:

- diagrammi tensioni deformazioni utilizzati a freddo opportunamente ridotti:
- UNI EN 1992-1-1:2005 per il calcestruzzo prevede al punto 3.1.7. il diagramma parabola rettangolo o bilineare
- UNI EN 1992-1-1:2005 per l' acciaio prevede al punto 3.2.7 e 3.3.6 diagrammi di tipo elastico perfettamente plastico senza limiti di deformazione o elastico incrudito con limite di deformazione.
- fattori di riduzione funzione della temperatura per i calcestruzzi silicei o calcarei;
- fattori di riduzione per gli acciai funzione del tipo e del comportamento limite della sezione (acciaio compresso e teso con deformazione inferiore al 2% e acciaio teso con deformazione superiore al 2%).

La modalità di verifica secondo il modello semplificato richiede pertanto gli usuali parametri e algoritmi in uso nelle verifiche a freddo.

I modelli avanzati utilizzano diagrammi tensioni deformazioni come da sezione 3 di UNI EN-1991-1-2:2005:

1. per il calcestruzzo si adotta un diagramma definito dai tre parametri funzione della temperatura resistenza massima, deformazione corrispondente alla resistenza massima, deformazione corrispondente alla tensione nulla (esiste pertanto un ramo discendente);
2. per l' acciaio si adotta un diagramma definito dai seguenti parametri tutti funzione della temperatura:
 - $E(t)$ modulo elastico
 - $f_p(t)$ tensione al limite proporzionale
 - $f_y(t)$ tensione massima
 - $e_p(t)$ deformazione per f_p
 - $e_y(t)$ deformazione iniziale per f_y (inizio tratto orizzontale)
 - $e_t(t)$ deformazione finale per f_y (fine tratto orizzontale)
 - $e_u(t)$ deformazione per tensione nulla (esiste pertanto un ramo discendente);

La modalità di verifica con il modello avanzato necessita di alcune precisazioni:

- il calcestruzzo al crescere della temperatura diminuisce la resistenza
- il calcestruzzo al crescere della temperatura diventa più duttile ossia aumenta la deformazione per cui attinge la massima resistenza e la deformazione in cui si annulla la resistenza
- si ammette pertanto che alcune fibre siano deformate in modo da cadere nel ramo discendente



- l' acciaio al crescere della temperatura diminuisce il modulo elastico, presenta una fascia non lineare (tra la proporzionale e la plastica) crescente, e in particolare nel precompresso varia $et(t)$ e $eu(t)$.

La resistenza limite della sezione si ottiene pertanto iterando sulla curvatura ossia variando la deformazione massima del calcestruzzo e limitando quella dell' acciaio alla $et(t)$.

La modalità di analisi termica della sezione è identica nei due modelli. Per determinare la mappa termica si è effettuata una analisi del transitorio con elementi finiti bidimensionali utilizzando il codice "FIRES-T3: A Computer Program for the Fire Response of Structure-Thermal (Three-Dimensional Version)" di Iding, R.; Bresler, B.; Nizamuddin, Z. disponibile presso il "Building and Fire Research Laboratory National Institute of Standards and Technology Gaithersburg, MD 20899". Il software, opportunamente adattato per operare in ambiente grafico-interattivo assicura risultati coerenti con le mappe termiche delle norma UNI EN 1992-1-2:2005. Poiché l' analisi termica della sezione è effettuata indipendentemente dalla disposizione delle armature può essere adottata per tutte le verifiche allo stato limite ultimo.

Le tabelle sottoriportate, relative ad elementi trave e pilastro, guscio e setto riportano le verifiche condotte ed in particolare:

Trave / Pilas	Numero dell' elemento
Stato	Codice di verifica dell' elemento ok: verificato NV: non verificato
Note	Indice della sezione dell' elemento e valore del tempo di esposizione (in minuti)
%Res C	Indicatore della capacità residua per compressione (in percentuale).
%Res T	Indicatore della capacità residua per trazione (in percentuale).
Temp. s	Massima temperatura dell' armatura longitudinale (valutata per un D16 a titolo esemplificativo)
Temp. w	Massima temperatura delle staffe
Pos.	Posizione della sezione lungo l' elemento
Verif. N/M	Rapporto azioni di calcolo e azioni ultime N,M2,M3
Verif. V	Rapporto azioni di calcolo e azioni ultime T,V2,V3 (verifica della biella compressa)
Verif. V(w)	Rapporto azioni di calcolo e azioni ultime T,V2,V3 (verifica dell' armatura trasversale)
Rif. cmb	Combinazioni in cui si sono rispettivamente attinti i massimi dei tre precedenti rapporti.

Guscio /Setto	Numero dell' elemento
Stato	Codice di verifica dell' elemento ok: verificato NV: non verificato
Note	Modalità di esposizione all' incendio: lato - (intradosso) e/o lato + (estradosso) e valore del tempo di esposizione (in minuti)
%Res C	Indicatore della capacità residua per compressione (in percentuale).
%Res T	Indicatore della capacità residua per trazione (in percentuale).
Temp. L-	Temperatura dell' armatura longitudinale valutata al centro del ferro più esterno (lato -)
Temp. L+	Temperatura dell' armatura longitudinale valutata al centro del ferro più esterno (lato +)
Nodo	Numero del nodo verificato
Verif. N/M	Rapporto azioni di calcolo e azioni ultime N,M (azioni di membrana e flessione)
Verif. V	Rapporto azioni di calcolo e azioni ultime V (azione di taglio ortogonale al piano): verifica della biella compressa
Verif. V(t)	Rapporto azioni di calcolo e azioni ultime V (azione di taglio ortogonale al piano): verifica della

	capacità in assenza di armatura per taglio
Rif. cmb	Combinazioni in cui si sono rispettivamente attinti i massimi dei tre precedenti rapporti.

Legenda tabella verifiche resistenza al fuoco per elementi in legno

Le verifiche per elementi in legno sono condotte in ottemperanza alla norma tecnica UNI EN 1995-1-2:2005 "Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-2: Regole generali – Progettazione strutturale contro l' incendio".

In particolare si utilizza il metodo della sezione efficace di cui al par. 4.2.2 "reduced cross-section method" con riferimento alla carbonizzazione della sezione come da par. 3.4.1 "notional charring rate". Laddove previsto il programma consente di considerare l' effetto di rivestimenti di protezione.

Le verifiche di resistenza e stabilità sono analoghe a quelle per la situazione a "freddo", come descritte nel capitolo "VERIFICHE S.L. ELEMENTI IN LEGNO" e sempre in analogia sono tabulate come di seguito:

Elem.	Numero dell'elemento
Tipo	Codice di individuazione del tipo di elemento: trave (T) pilastro (P) asta (A)
Stato	Codice della verifica ok verificato, NV non verificato
Note	Numero della sezione (s) e del materiale (m) dell'archivio
Ver N+/M	Verifica come da formula 6.17 e 6.18 per tensoflessione
Ver N-/M	Verifica come da formula 6.19 e 6.20 per pressoflessione
Ver V/T	Verifica come da formula 6.13 e 6.14 (taglio torsione) con interazione ottenuta per quadratura del termine di taglio
Ver N(s)	Verifica come da formula 6.23 e 6.24 per pressoflessione di elementi con snellezza relativa in un piano maggiore di 0.3
Kcy(z)	Fattore di instabilità utilizzato nella formula 6.23 (6.24)
Ver M(s)	Verifica come da formula 6.35 (effettuata in entrambi i piani principali) per instabilità laterale
Kcrit (y) / (z)	Fattore di instabilità laterale utilizzato nella formula 6.35 rispettivamente per la flessione y e z

Legenda tabella verifiche resistenza al fuoco per elementi in acciaio

Le verifiche per elementi monodimensionali in acciaio sono condotte in ottemperanza alla norma tecnica UNI EN 1993-1-2:2005 "Eurocodice 3 - Progettazione delle strutture in acciaio - Parte 1-2: Regole generali – Progettazione strutturale contro l'incendio".

In particolare con riferimento al capitolo

4 Structural fire design

si considerano i seguenti paragrafi :

4.2 Simple calculation models

4.2.1 General

Le verifiche saranno riportate in conformità alla formula (4.1) " $E_{f,d} < R_{f,d,t}$ " normalizzata a 1 ossia " $E_{f,d} / R_{f,d,t} < 1$ "; valori maggiori di 1 indicheranno la non verifica.

Il programma segue il paragrafo (4.2) e pertanto determina le resistenze $R_{f,d,t}$ in conformità alla UNI EN 1993-1-1 nell' ipotesi di temperatura uniforme della sezione e modificando le proprietà meccaniche dell'acciaio per alte temperature. Viene lasciata all'utente la possibilità di considerare una distribuzione di temperatura non uniforme nella sezione per mezzo del fattore di adattamento k_1 . Non è considerata la variazione di temperatura nello sviluppo dell'elemento in quanto questo può essere modellato suddividendo lo stesso.

4.2.2 Classification of cross-sections

4.2.3 Resistance

Per effettuare le verifiche di resistenza e di stabilità flessionale e torsionale deve considerarsi sia la riduzione in funzione della temperatura sia della resistenza che del modulo elastico come da "Table 3.1: Reduction factors for stress-strain relationship of carbon steel at elevated temperatures".

Si considera un fattore di imperfezione α specifico e snellezze adimensionali corrette dalla radice del rapporto tra riduzione di resistenza e riduzione di modulo come da formula (4.7) e (4.15); nella formula (4.15) si considera a favore di sicurezza T_{α} .

4.2.5 Steel temperature development

L'analisi termica della sezione è condotta con riferimento al paragrafo 4.2.5; per i profili senza protezione si opera come da par. "4.2.5.1 Unprotected internal steelwork"; laddove previsto il programma consente di considerare l'effetto di rivestimenti di protezione e pertanto verrà applicato il par. "4.2.5.2 Internal steelwork insulated by fire protection material".

Le verifiche sono riassunte in tabella con la seguente modalità:

Elem.	Numero dell' elemento
Stato	Codice di verifica dell' elemento ok: verificato NV: non verificato
Note	Sezione e materiale
Min.	Tempo di esposizione per il quale si sono condotte le verifiche (minuti)
Prot.	Indicatore della protezione (si/no)
Temp.	Temperatura raggiunta al tempo di esposizione
Rid. f_y	Fattore di riduzione della tensione di snervamento f_y come da Table 3.1: Reduction factors for stress-strain relationship of carbon steel at elevated temperatures
Rid. E	Fattore di riduzione del modulo elastico E come da Table 3.1: Reduction factors for stress-strain relationship of carbon steel at elevated temperatures
Cl.	Classe massima adottata nelle verifiche di interesse
V V/T	verifica di resistenza come da par. 4.2.3 per azioni taglio-torsione
V N/M	verifica di resistenza come da par. 4.2.3 per azioni composte con riduzione per taglio ove richiesto
V stab	verifica come da par. 4.2.3.5 (membrature inflesse e compresse senza/con presenza di

	instabilità flesso-torsionale)
V flst	verifica di stabilità flessotorsionale come da par. 4.2.3.3
Rif. cmb	combinazioni in cui si sono rispettivamente attinti i valori di verifica più elevati

Elem.	Note	Pos.	Ver N+/M	Ver N-/M	Ver V/T	Rif. cmb	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)	Rif. cmb
4 ok P,s=1,m=129		0.0		1.58e-02	5.82e-05	0,47,47	4.70e-02	0.9	0.2				47,0
		32.5		1.28e-02	5.82e-05	0,47,47	4.44e-02	0.9	0.2				47,0
5 ok P,s=1,m=129		0.0		1.47e-02	1.64e-03	0,47,47	2.29e-02	1.0	0.3				47,0
		45.0		1.22e-02	1.64e-03	0,47,47	2.10e-02	1.0	0.3				47,0
6 ok P,s=1,m=129		0.0		1.27e-02	5.20e-04	0,47,47	2.02e-02	1.0	0.3				47,0
		45.0		7.03e-03	5.20e-04	0,47,47	1.58e-02	1.0	0.3				47,0
7 ok P,s=1,m=129		0.0		1.53e-02	3.71e-04	0,47,47	2.42e-02	1.0	0.3				47,0
		45.0		7.73e-03	3.71e-04	0,47,47	1.85e-02	1.0	0.3				47,0
8 ok P,s=1,m=129		0.0		9.55e-03	4.18e-04	0,47,47	1.50e-02	1.0	0.3				47,0
		45.0		7.83e-03	4.18e-04	0,47,47	1.34e-02	1.0	0.3				47,0
9 ok P,s=1,m=129		0.0		2.71e-02	1.20e-03	0,47,47	4.24e-02	1.0	0.3				47,0
		45.0		2.22e-02	1.20e-03	0,47,47	3.91e-02	1.0	0.3				47,0
10 ok P,s=1,m=129		0.0		1.54e-02	8.42e-04	0,47,47	2.41e-02	1.0	0.3				47,0
		45.0		1.30e-02	8.42e-04	0,47,47	2.22e-02	1.0	0.3				47,0
11 ok P,s=1,m=129		0.0		1.25e-02	6.44e-05	0,47,47	1.97e-02	1.0	0.3				47,0
		45.0		8.43e-03	6.44e-05	0,47,47	1.65e-02	1.0	0.3				47,0
12 ok P,s=1,m=129		0.0		1.11e-02	8.45e-05	0,47,47	1.75e-02	1.0	0.3				47,0
		45.0		8.87e-03	8.45e-05	0,47,47	1.55e-02	1.0	0.3				47,0
13 ok P,s=1,m=129		0.0		1.29e-02	1.52e-04	0,47,47	3.86e-02	0.9	0.2				47,0
		45.0		9.10e-03	1.52e-04	0,47,47	3.52e-02	0.9	0.2				47,0
14 ok P,s=1,m=129		0.0		1.99e-02	4.19e-04	0,47,47	5.94e-02	0.9	0.2				47,0
		45.0		1.43e-02	4.19e-04	0,47,47	5.47e-02	0.9	0.2				47,0
15 ok P,s=1,m=129		0.0		2.15e-02	5.32e-04	0,47,47	6.40e-02	0.9	0.2				47,0
		45.0		1.54e-02	5.32e-04	0,47,47	5.91e-02	0.9	0.2				47,0
16 ok P,s=1,m=129		0.0		1.30e-02	1.33e-04	0,47,47	3.90e-02	0.9	0.2				47,0
		45.0		9.21e-03	1.33e-04	0,47,47	3.56e-02	0.9	0.2				47,0
17 ok P,s=1,m=129		0.0		1.31e-02	2.51e-04	0,47,47	4.81e-02	0.9	0.2				47,0
		97.5		6.29e-03	2.51e-04	0,47,47	4.17e-02	0.9	0.2				47,0
18 ok P,s=1,m=129		0.0		1.26e-02	1.16e-03	0,47,47	6.06e-02	0.9	0.2				47,0
		97.5		2.23e-03	1.16e-03	0,47,47	5.15e-02	0.9	0.2				47,0
19 ok P,s=1,m=129		0.0		1.22e-02	1.11e-03	0,47,47	5.92e-02	0.9	0.2				47,0
		97.5		2.19e-03	1.11e-03	0,47,47	5.04e-02	0.9	0.2				47,0
20 ok P,s=1,m=129		0.0		1.28e-02	1.77e-04	0,47,47	4.73e-02	0.9	0.2				47,0
		97.5		6.12e-03	1.77e-04	0,47,47	4.09e-02	0.9	0.2				47,0
21 ok P,s=1,m=129		0.0		1.25e-02	1.21e-03	0,47,47	2.25e-02	1.0	0.3				47,0
		85.0		9.43e-03	1.21e-03	0,47,47	2.00e-02	1.0	0.3				47,0
22 ok P,s=1,m=129		0.0		5.38e-03	4.46e-04	0,47,47	1.58e-02	1.0	0.3				47,0
		85.0		1.92e-03	4.46e-04	0,47,47	1.27e-02	1.0	0.3				47,0
23 ok P,s=1,m=129		0.0		6.51e-03	2.74e-04	0,47,47	2.00e-02	1.0	0.3				47,0
		85.0		1.33e-03	2.74e-04	0,47,47	1.56e-02	1.0	0.3				47,0
24 ok P,s=1,m=129		0.0		7.63e-03	3.75e-04	0,47,47	1.41e-02	1.0	0.3				47,0
		85.0		5.64e-03	3.75e-04	0,47,47	1.20e-02	1.0	0.3				47,0
25 ok P,s=1,m=129		0.0		2.32e-02	6.54e-04	0,47,47	4.30e-02	1.0	0.3				47,0
		85.0		1.59e-02	6.54e-04	0,47,47	3.74e-02	1.0	0.3				47,0
26 ok P,s=1,m=129		0.0		1.32e-02	3.54e-04	0,47,47	2.38e-02	1.0	0.3				47,0
		85.0		9.98e-03	3.54e-04	0,47,47	2.09e-02	1.0	0.3				47,0
27 ok P,s=1,m=129		0.0		6.94e-03	7.15e-05	0,47,47	1.62e-02	1.0	0.3				47,0
		85.0		4.11e-03	7.15e-05	0,47,47	1.35e-02	1.0	0.3				47,0
28 ok P,s=1,m=129		0.0		8.78e-03	4.98e-05	0,47,47	1.66e-02	1.0	0.3				47,0
		85.0		6.19e-03	4.98e-05	0,47,47	1.41e-02	1.0	0.3				47,0
29 ok P,s=1,m=129		0.0		8.96e-03	1.36e-04	0,47,47	3.83e-02	0.9	0.2				47,0
		85.0		3.71e-03	1.36e-04	0,47,47	3.31e-02	0.9	0.2				47,0
30 ok P,s=1,m=129		0.0		9.01e-03	2.69e-04	0,47,47	4.41e-02	0.9	0.2				47,0
		85.0		7.10e-03	2.69e-04	0,47,47	4.13e-02	0.9	0.2				47,0
31 ok P,s=1,m=129		0.0		9.93e-03	2.07e-04	0,47,47	4.80e-02	0.9	0.2				47,0
		85.0		7.24e-03	2.07e-04	0,47,47	4.46e-02	0.9	0.2				47,0
32 ok P,s=1,m=129		0.0		9.05e-03	1.24e-04	0,47,47	3.86e-02	0.9	0.2				47,0
		85.0		3.83e-03	1.24e-04	0,47,47	3.35e-02	0.9	0.2				47,0
33 ok P,s=1,m=129		0.0		3.51e-02	5.48e-04	0,47,47	5.45e-02	1.0	0.3				47,0
		215.0		2.16e-02	5.48e-04	0,47,47	4.40e-02	1.0	0.3				47,0
34 ok P,s=1,m=129		0.0		4.32e-02	2.05e-05	0,47,47	0.1	0.9	0.2				47,0
		217.5		2.61e-02	2.05e-05	0,47,47	0.1	0.9	0.2				47,0
35 ok P,s=1,m=129		0.0		9.99e-03	3.04e-04	0,47,47	2.31e-02	1.0	0.3				47,0
		85.0		6.52e-03	3.04e-04	0,47,47	1.94e-02	1.0	0.3				47,0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



36 ok P,s=1,m=129	0.0	1.14e-03	7.36e-05	0,47,47	1.50e-02	1.0	0.3	47,0
	85.0	9.63e-04	7.36e-05	0,47,47	1.42e-02	1.0	0.3	47,0
37 ok P,s=1,m=129	0.0	1.19e-03	7.24e-05	0,47,47	1.99e-02	1.0	0.3	47,0
	85.0	2.56e-04	7.24e-05	0,47,47	1.85e-02	1.0	0.3	47,0
38 ok P,s=1,m=129	0.0	5.60e-03	1.82e-04	0,47,47	1.39e-02	1.0	0.3	47,0
	85.0	4.65e-03	1.82e-04	0,47,47	1.27e-02	1.0	0.3	47,0
39 ok P,s=1,m=129	0.0	1.77e-02	2.85e-04	0,47,47	4.57e-02	1.0	0.3	47,0
	85.0	1.09e-02	2.85e-04	0,47,47	3.97e-02	1.0	0.3	47,0
40 ok P,s=1,m=129	0.0	1.05e-02	1.05e-03	0,47,47	2.47e-02	1.0	0.3	47,0
	85.0	7.64e-03	1.05e-03	0,47,47	2.18e-02	1.0	0.3	47,0
41 ok P,s=1,m=129	0.0	3.71e-03	6.26e-05	0,47,47	1.63e-02	1.0	0.3	47,0
	85.0	1.22e-03	6.26e-05	0,47,47	1.38e-02	1.0	0.3	47,0
42 ok P,s=1,m=129	0.0	6.46e-03	7.99e-05	0,47,47	1.71e-02	1.0	0.3	47,0
	85.0	4.98e-03	7.99e-05	0,47,47	1.53e-02	1.0	0.3	47,0
43 ok P,s=1,m=129	0.0	4.00e-03	5.91e-05	0,47,47	4.15e-02	0.9	0.2	47,0
	85.0	3.41e-04	5.91e-05	0,47,47	3.75e-02	0.9	0.2	47,0
44 ok P,s=1,m=129	0.0	3.99e-03	1.40e-04	0,47,47	4.03e-02	0.9	0.2	47,0
	85.0	3.68e-03	1.40e-04	0,47,47	3.85e-02	0.9	0.2	47,0
45 ok P,s=1,m=129	0.0	6.44e-03	5.33e-04	0,47,47	4.99e-02	0.9	0.2	47,0
	85.0	1.61e-03	5.33e-04	0,47,47	4.49e-02	0.9	0.2	47,0
46 ok P,s=1,m=129	0.0	4.14e-03	2.26e-04	0,47,47	4.39e-02	0.9	0.2	47,0
	85.0	3.35e-03	2.26e-04	0,47,47	4.17e-02	0.9	0.2	47,0
47 ok P,s=1,m=129	0.0	4.09e-03	6.07e-05	0,47,47	4.19e-02	0.9	0.2	47,0
	85.0	2.21e-04	6.07e-05	0,47,47	3.77e-02	0.9	0.2	47,0
48 ok P,s=1,m=129	0.0	6.68e-03	4.98e-04	0,47,47	5.07e-02	0.9	0.2	47,0
	85.8	1.70e-03	4.98e-04	0,47,47	4.56e-02	0.9	0.2	47,0
49 ok P,s=1,m=129	0.0	2.64e-03	7.33e-04	0,47,47	6.12e-02	0.9	0.2	47,0
	87.5	3.58e-03	7.33e-04	0,47,47	6.13e-02	0.9	0.2	47,0
50 ok P,s=1,m=129	0.0	2.53e-03	7.82e-04	0,47,47	5.99e-02	0.9	0.2	47,0
	87.5	3.50e-03	7.82e-04	0,47,47	6.00e-02	0.9	0.2	47,0
51 ok P,s=1,m=129	0.0	6.96e-03	1.32e-03	0,47,47	2.26e-02	1.0	0.3	47,0
	90.0	5.86e-03	1.32e-03	0,47,47	2.10e-02	1.0	0.3	47,0
52 ok P,s=1,m=129	0.0	3.90e-04	3.27e-04	0,47,47	1.57e-02	1.0	0.3	47,0
	90.0	2.26e-03	3.27e-04	0,47,47	1.62e-02	1.0	0.3	47,0
53 ok P,s=1,m=129	0.0	2.60e-04	1.07e-04	0,47,47	2.19e-02	1.0	0.3	47,0
	90.0	1.82e-03	1.07e-04	0,47,47	2.22e-02	1.0	0.3	47,0
54 ok P,s=1,m=129	0.0	4.58e-03	2.05e-04	0,47,47	1.51e-02	1.0	0.3	47,0
	90.0	4.05e-03	2.05e-04	0,47,47	1.38e-02	1.0	0.3	47,0
55 ok P,s=1,m=129	0.0	4.15e-03	9.72e-04	0,47,47	3.54e-02	1.0	0.3	47,0
	90.0	6.17e-03	9.72e-04	0,47,47	3.61e-02	1.0	0.3	47,0
56 ok P,s=1,m=129	0.0	8.73e-03	9.46e-04	0,47,47	2.43e-02	1.0	0.3	47,0
	90.0	3.10e-03	9.46e-04	0,47,47	1.93e-02	1.0	0.3	47,0
57 ok P,s=1,m=129	0.0	8.02e-03	5.91e-04	0,47,47	2.56e-02	1.0	0.3	47,0
	90.0	7.16e-03	5.91e-04	0,47,47	2.45e-02	1.0	0.3	47,0
58 ok P,s=1,m=129	0.0	8.08e-04	3.39e-05	0,47,47	1.68e-02	1.0	0.3	47,0
	90.0	3.15e-03	3.39e-05	0,47,47	1.76e-02	1.0	0.3	47,0
59 ok P,s=1,m=129	0.0	5.58e-03	7.43e-05	0,47,47	1.95e-02	1.0	0.3	47,0
	90.0	5.94e-03	7.43e-05	0,47,47	1.89e-02	1.0	0.3	47,0
60 ok P,s=1,m=129	0.0	4.50e-04	4.79e-05	0,47,47	4.80e-02	0.9	0.2	47,0
	90.0	3.41e-03	4.79e-05	0,47,47	4.85e-02	0.9	0.2	47,0
61 ok P,s=1,m=129	0.0	1.82e-03	2.69e-04	0,47,47	4.15e-02	0.9	0.2	47,0
	90.0	6.00e-04	2.69e-04	0,47,47	3.91e-02	0.9	0.2	47,0
62 ok P,s=1,m=129	0.0	1.88e-03	2.14e-05	0,47,47	5.47e-02	0.9	0.2	47,0
	90.0	2.59e-03	2.14e-05	0,47,47	5.36e-02	0.9	0.2	47,0
63 ok P,s=1,m=129	0.0	1.52e-03	3.51e-04	0,47,47	4.38e-02	0.9	0.2	47,0
	90.0	8.42e-04	3.51e-04	0,47,47	4.19e-02	0.9	0.2	47,0
64 ok P,s=1,m=129	0.0	4.82e-04	4.06e-05	0,47,47	4.83e-02	0.9	0.2	47,0
	90.0	3.27e-03	4.06e-05	0,47,47	4.86e-02	0.9	0.2	47,0
65 ok P,s=1,m=129	0.0	2.01e-03	1.15e-04	0,47,47	5.54e-02	0.9	0.2	47,0
	89.2	2.56e-03	1.15e-04	0,47,47	5.42e-02	0.9	0.2	47,0
66 ok P,s=1,m=129	0.0	3.56e-03	2.26e-04	0,47,47	6.28e-02	0.9	0.2	47,0
	87.5	1.42e-03	2.26e-04	0,47,47	5.90e-02	0.9	0.2	47,0
67 ok P,s=1,m=129	0.0	1.20e-02	1.35e-05	0,47,47	6.99e-02	0.9	0.2	47,0
	87.5	3.44e-03	1.35e-05	0,47,47	6.24e-02	0.9	0.2	47,0
68 ok P,s=1,m=129	0.0	3.45e-03	2.53e-04	0,47,47	6.15e-02	0.9	0.2	47,0
	87.5	1.48e-03	2.53e-04	0,47,47	5.80e-02	0.9	0.2	47,0
69 ok P,s=1,m=129	0.0	6.38e-03	7.19e-04	0,47,47	2.51e-02	1.0	0.3	47,0
	75.0	1.35e-02	7.19e-04	0,47,47	2.95e-02	1.0	0.3	47,0
70 ok P,s=1,m=129	0.0	2.65e-03	4.58e-04	0,47,47	1.93e-02	1.0	0.3	47,0
	75.0	1.19e-02	4.58e-04	0,47,47	2.50e-02	1.0	0.3	47,0
71 ok P,s=1,m=129	0.0	2.99e-03	9.19e-05	0,47,47	2.75e-02	1.0	0.3	47,0
	75.0	1.67e-02	9.19e-05	0,47,47	3.66e-02	1.0	0.3	47,0
72 ok P,s=1,m=129	0.0	4.86e-03	2.14e-04	0,47,47	1.84e-02	1.0	0.3	47,0
	75.0	8.37e-03	2.14e-04	0,47,47	2.02e-02	1.0	0.3	47,0
73 ok P,s=1,m=129	0.0	4.28e-03	1.17e-03	0,47,47	3.24e-02	1.0	0.3	47,0



74 ok P,s=1,m=129	75.0	1.46e-02	1.17e-03	0,47,47	3.95e-02	1.0	0.3					47,0
	0.0	3.78e-03	1.57e-03	0,47,47	1.96e-02	1.0	0.3					47,0
	75.0	7.19e-03	1.57e-03	0,47,47	2.18e-02	1.0	0.3					47,0
75 ok P,s=1,m=129	0.0	8.11e-03	1.83e-04	0,47,47	3.00e-02	1.0	0.3					47,0
	75.0	1.55e-02	1.83e-04	0,47,47	3.51e-02	1.0	0.3					47,0
76 ok P,s=1,m=129	0.0	1.64e-03	5.25e-05	0,47,47	1.85e-02	1.0	0.3					47,0
	75.0	1.23e-02	5.25e-05	0,47,47	2.54e-02	1.0	0.3					47,0
77 ok P,s=1,m=129	0.0	7.54e-03	6.85e-06	0,47,47	2.62e-02	1.0	0.3					47,0
	75.0	1.40e-02	6.85e-06	0,47,47	3.01e-02	1.0	0.3					47,0
78 ok P,s=1,m=129	0.0	2.43e-03	7.63e-05	0,47,47	6.21e-02	0.9	0.2					47,0
	95.0	3.16e-03	7.63e-05	0,47,47	6.09e-02	0.9	0.2					47,0
79 ok P,s=1,m=129	0.0	1.32e-03	1.88e-04	0,47,47	4.77e-02	0.9	0.2					47,0
	95.0	7.88e-04	1.88e-04	0,47,47	4.57e-02	0.9	0.2					47,0
80 ok P,s=1,m=129	0.0	1.75e-03	3.54e-04	0,47,47	6.64e-02	0.9	0.2					47,0
	95.0	3.01e-03	3.54e-04	0,47,47	6.60e-02	0.9	0.2					47,0
81 ok P,s=1,m=129	0.0	8.36e-04	1.86e-03	0,47,47	5.57e-02	0.9	0.2					47,0
	95.0	3.28e-03	1.86e-03	0,47,47	5.59e-02	0.9	0.2					47,0
82 ok P,s=1,m=129	0.0	3.33e-03	8.78e-06	0,47,47	5.61e-02	0.9	0.2					47,0
	95.0	5.81e-03	8.78e-06	0,47,47	5.61e-02	0.9	0.2					47,0
83 ok P,s=1,m=129	0.0	8.72e-04	1.87e-03	0,47,47	5.49e-02	0.9	0.2					47,0
	95.0	3.15e-03	1.87e-03	0,47,47	5.48e-02	0.9	0.2					47,0
84 ok P,s=1,m=129	0.0	1.75e-03	2.83e-04	0,47,47	6.63e-02	0.9	0.2					47,0
	95.0	2.98e-03	2.83e-04	0,47,47	6.59e-02	0.9	0.2					47,0
85 ok P,s=1,m=129	0.0	1.54e-03	1.33e-04	0,47,47	4.87e-02	0.9	0.2					47,0
	95.0	1.68e-03	1.33e-04	0,47,47	4.72e-02	0.9	0.2					47,0
86 ok P,s=1,m=129	0.0	2.31e-03	4.68e-05	0,47,47	6.23e-02	0.9	0.2					47,0
	95.0	3.06e-03	4.68e-05	0,47,47	6.11e-02	0.9	0.2					47,0
87 ok T,s=2,m=129	0.0	7.38e-05	3.19e-02	0,47,47	0.2	0.94.50e-02	0.2	0.7	1.0			47,47
	182.0	0.3	7.97e-03	0,47,47	0.4	0.94.50e-02	0.4	0.7	1.0			47,47
88 ok T,s=2,m=129	0.0	2.81e-05	1.33e-02	0,47,47	0.1	0.94.50e-02	0.1	0.7	1.0			47,47
	727.8	0.0	1.33e-02	0,47,47	5.71e-03	0.94.50e-02	5.71e-03	0.7	1.0			47,47
89 ok T,s=2,m=129	0.0	7.11e-05	3.50e-02	0,47,47	0.2	0.94.50e-02	0.2	0.7	1.0			47,47
	727.8	0.0	3.50e-02	0,47,47	5.25e-03	0.94.50e-02	5.25e-03	0.7	1.0			47,47
90 ok T,s=2,m=129	0.0	3.45e-05	1.26e-02	0,47,47	0.1	0.94.50e-02	0.1	0.7	1.0			47,47
	727.8	0.0	1.26e-02	0,47,47	2.17e-02	0.94.50e-02	2.17e-02	0.7	1.0			47,47
91 ok T,s=2,m=129	0.0	1.05e-04	2.82e-02	0,47,47	0.2	0.94.50e-02	0.2	0.7	1.0			47,47
	727.8	8.46e-06	2.82e-02	0,47,47	6.46e-02	0.94.50e-02	6.46e-02	0.7	1.0			47,47
92 ok T,s=2,m=129	0.0	4.15e-05	1.26e-02	0,47,47	0.1	0.94.50e-02	0.1	0.7	1.0			47,47
	727.8	2.39e-06	1.26e-02	0,47,47	3.44e-02	0.94.50e-02	3.44e-02	0.7	1.0			47,47
93 ok T,s=2,m=129	0.0	8.94e-05	3.52e-02	0,47,47	0.2	0.94.50e-02	0.2	0.7	1.0			47,47
	727.8	1.58e-06	3.52e-02	0,47,47	2.79e-02	0.94.50e-02	2.79e-02	0.7	1.0			47,47
94 ok T,s=2,m=129	0.0	2.96e-05	1.33e-02	0,47,47	0.1	0.94.50e-02	0.1	0.7	1.0			47,47
	727.8	0.0	1.33e-02	0,47,47	8.85e-03	0.94.50e-02	8.85e-03	0.7	1.0			47,47
95 ok T,s=2,m=129	0.0	7.35e-05	3.20e-02	0,47,47	0.2	0.94.50e-02	0.2	0.7	1.0			47,47
	182.0	0.3	8.03e-03	0,47,47	0.4	0.94.50e-02	0.4	0.7	1.0			47,47
96 ok P,s=1,m=129	0.0	1.29e-02	3.20e-04	0,47,47	0.1	0.9	0.2					47,0
	140.0	2.84e-02	3.20e-04	0,47,47	0.1	0.9	0.2					47,0
97 ok P,s=1,m=129	0.0	4.89e-03	1.01e-04	0,47,47	7.68e-02	0.9	0.2					47,0
	140.0	1.98e-02	1.01e-04	0,47,47	8.47e-02	0.9	0.2					47,0
98 ok P,s=1,m=129	0.0	1.34e-02	1.26e-04	0,47,47	0.1	0.9	0.2					47,0
	140.0	3.30e-02	1.26e-04	0,47,47	0.1	0.9	0.2					47,0
99 ok P,s=1,m=129	0.0	1.01e-02	3.46e-04	0,47,47	7.84e-02	0.9	0.2					47,0
	140.0	1.59e-02	3.46e-04	0,47,47	7.94e-02	0.9	0.2					47,0
100 ok P,s=1,m=129	0.0	2.35e-02	2.65e-04	0,47,47	0.1	0.9	0.2					47,0
	140.0	1.72e-02	2.65e-04	0,47,47	0.1	0.9	0.2					47,0
101 ok P,s=1,m=129	0.0	1.15e-02	1.03e-03	0,47,47	8.02e-02	0.9	0.2					47,0
	140.0	1.33e-02	1.03e-03	0,47,47	7.75e-02	0.9	0.2					47,0
102 ok P,s=1,m=129	0.0	1.50e-02	8.14e-04	0,47,47	0.1	0.9	0.2					47,0
	140.0	2.85e-02	8.14e-04	0,47,47	0.1	0.9	0.2					47,0
103 ok P,s=1,m=129	0.0	7.37e-03	9.70e-04	0,47,47	7.98e-02	0.9	0.2					47,0
	140.0	1.91e-02	9.70e-04	0,47,47	8.41e-02	0.9	0.2					47,0
104 ok P,s=1,m=129	0.0	1.32e-02	5.02e-04	0,47,47	0.1	0.9	0.2					47,0
	140.0	2.85e-02	5.02e-04	0,47,47	0.1	0.9	0.2					47,0
118 ok T,s=2,m=129	0.0	0.4	1.01e-05	0,47,47	0.4	0.94.50e-02	0.5	0.7	1.0			47,47
	182.0	0.3	8.01e-03	0,47,47	0.3	0.94.50e-02	0.3	0.7	1.0			47,47
119 ok T,s=2,m=129	0.0	0.4	7.04e-05	0,47,47	0.4	0.94.50e-02	0.5	0.7	1.0			47,47
	182.0	0.3	8.07e-03	0,47,47	0.3	0.94.50e-02	0.3	0.7	1.0			47,47
120 ok T,s=2,m=129	0.0	0.3	7.97e-03	0,47,47	0.4	0.94.50e-02	0.4	0.7	1.0			47,47
	182.0	0.4	1.01e-05	0,47,47	0.4	0.94.50e-02	0.5	0.7	1.0			47,47
121 ok T,s=2,m=129	0.0	0.3	8.03e-03	0,47,47	0.4	0.94.50e-02	0.4	0.7	1.0			47,47
	182.0	0.4	7.04e-05	0,47,47	0.4	0.94.50e-02	0.5	0.7	1.0			47,47
122 ok T,s=2,m=129	0.0	0.3	8.01e-03	0,47,47	0.3	0.94.50e-02	0.3	0.7	1.0			47,47
	182.0	0.0	3.20e-02	0,47,47	1.70e-02	0.94.50e-02	1.70e-02	0.7	1.0			47,47
123 ok T,s=2,m=129	0.0	0.3	8.07e-03	0,47,47	0.3	0.94.50e-02	0.3	0.7	1.0			47,47
	182.0	0.0	3.20e-02	0,47,47	1.65e-02	0.94.50e-02	1.65e-02	0.7	1.0			47,47

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



124 ok P,s=1,m=129	0.0	1.61e-02	5.93e-05	0,47,47	4.78e-02	0.9	0.2	47,0
	32.5	1.30e-02	5.93e-05	0,47,47	4.51e-02	0.9	0.2	47,0
125 ok P,s=1,m=129	0.0	2.32e-02	1.61e-03	0,47,47	6.84e-02	0.9	0.2	47,0
	32.5	1.43e-02	1.61e-03	0,47,47	6.18e-02	0.9	0.2	47,0
126 ok P,s=1,m=129	0.0	2.26e-02	1.52e-03	0,47,47	6.69e-02	0.9	0.2	47,0
	32.5	1.40e-02	1.52e-03	0,47,47	6.04e-02	0.9	0.2	47,0

Elem.	Ver N+/M	Ver N-/M	Ver V/T	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)
		0.41	0.04	0.42	0.86	0.04	0.50	0.65	1.00

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
8	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
394	0.0	0.01	0.0	0,47,0	1.71e-06	2.62e-04	4.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.67e-04	0.0	0,47,0	1.58e-06	5.38e-04	3.82e-04	47,47,47			0.0	0.0	0.0
395	0.0	0.01	0.0	0,47,0	1.71e-06	2.62e-04	4.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.67e-04	0.0	0,47,0	1.58e-06	5.38e-04	3.82e-04	47,47,47			0.0	0.0	0.0
396	0.0	7.91e-03	0.0	0,47,0	0.0	2.23e-04	2.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.25e-04	0.0	0,47,0	0.0	2.56e-04	3.34e-04	47,47,47			0.0	0.0	0.0
397	0.0	5.44e-03	0.0	0,47,0	0.0	1.60e-04	1.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.48e-04	0.0	0,47,0	0.0	1.50e-04	2.23e-04	47,47,47			0.0	0.0	0.0
398	0.0	4.50e-03	0.0	0,47,0	0.0	5.48e-05	1.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.48e-04	0.0	0,47,0	0.0	4.41e-05	1.29e-04	47,47,47			0.0	0.0	0.0
399	0.0	5.50e-03	0.0	0,47,0	0.0	1.35e-04	1.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.42e-04	0.0	0,47,0	0.0	1.26e-04	1.99e-04	47,47,47			0.0	0.0	0.0
400	0.0	8.08e-03	0.0	0,47,0	0.0	1.95e-04	2.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.11e-04	0.0	0,47,0	0.0	2.15e-04	2.90e-04	47,47,47			0.0	0.0	0.0
401	0.0	0.01	0.0	0,47,0	1.51e-06	1.95e-04	4.72e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.99e-04	0.0	0,47,0	1.38e-06	3.83e-04	3.19e-04	47,47,47			0.0	0.0	0.0
402	0.0	0.01	0.0	0,47,0	1.51e-06	1.95e-04	4.72e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.99e-04	0.0	0,47,0	1.38e-06	3.83e-04	3.19e-04	47,47,47			0.0	0.0	0.0
813	0.0	0.01	0.0	0,47,0	5.91e-06	3.97e-04	4.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.67e-04	0.0	0,47,0	5.26e-06	5.38e-04	3.82e-04	47,47,47			0.0	0.0	0.0
814	0.0	0.01	0.0	0,47,0	5.91e-06	3.97e-04	4.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.67e-04	0.0	0,47,0	5.26e-06	5.38e-04	4.06e-04	47,47,47			0.0	0.0	0.0
815	0.0	7.91e-03	0.0	0,47,0	1.27e-06	2.23e-04	2.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.89e-04	0.0	0,47,0	1.08e-06	2.81e-04	4.06e-04	47,47,47			0.0	0.0	0.0
816	0.0	5.44e-03	0.0	0,47,0	0.0	1.60e-04	1.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.69e-04	0.0	0,47,0	0.0	1.50e-04	3.68e-04	47,47,47			0.0	0.0	0.0
817	0.0	4.50e-03	0.0	0,47,0	0.0	5.48e-05	1.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.69e-04	0.0	0,47,0	0.0	4.41e-05	3.68e-04	47,47,47			0.0	0.0	0.0
818	0.0	5.50e-03	0.0	0,47,0	0.0	1.35e-04	1.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.50e-04	0.0	0,47,0	0.0	1.26e-04	3.59e-04	47,47,47			0.0	0.0	0.0
819	0.0	8.08e-03	0.0	0,47,0	1.08e-06	1.95e-04	2.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.50e-04	0.0	0,47,0	0.0	2.37e-04	3.62e-04	47,47,47			0.0	0.0	0.0
820	0.0	0.01	0.0	0,47,0	5.07e-06	3.52e-04	4.72e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.99e-04	0.0	0,47,0	4.57e-06	3.83e-04	3.62e-04	47,47,47			0.0	0.0	0.0
821	0.0	0.01	0.0	0,47,0	5.07e-06	3.52e-04	4.72e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.99e-04	0.0	0,47,0	4.57e-06	3.83e-04	3.19e-04	47,47,47			0.0	0.0	0.0
1213	0.0	0.01	0.0	0,47,0	1.13e-05	5.49e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.86e-04	7.32e-04	0.0	47,47,0	1.05e-05	9.74e-04	7.45e-04	47,47,47			1.00	0.07	0.93
1214	0.0	0.01	0.0	0,47,0	1.13e-05	5.49e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.98e-04	1.31e-03	0.0	47,47,0	1.05e-05	1.13e-03	7.45e-04	47,47,47			1.00	0.07	0.93
1215	0.0	7.52e-03	0.0	0,47,0	2.36e-06	1.86e-04	2.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.98e-04	1.31e-03	0.0	47,47,0	2.26e-06	1.13e-03	5.60e-04	47,47,47			1.00	0.07	0.93
1216	0.0	5.05e-03	0.0	0,47,0	0.0	6.46e-05	1.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.28e-03	0.0	0,47,0	0.0	5.32e-04	5.16e-04	47,47,47			0.0	0.0	0.0
1217	0.0	3.97e-03	0.0	0,47,0	0.0	2.15e-05	1.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.21e-03	0.0	0,47,0	0.0	1.77e-04	4.71e-04	47,47,47			0.0	0.0	0.0
1218	0.0	5.06e-03	0.0	0,47,0	0.0	6.14e-05	1.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.22e-03	0.0	0,47,0	0.0	2.66e-04	4.77e-04	47,47,47			0.0	0.0	0.0
1219	0.0	7.63e-03	0.0	0,47,0	2.19e-06	1.66e-04	2.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.00e-04	1.22e-03	0.0	47,47,0	2.12e-06	7.00e-04	4.93e-04	47,47,47			1.00	0.07	0.93
1220	0.0	0.01	0.0	0,47,0	1.04e-05	4.86e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.49e-04	1.20e-03	0.0	47,47,0	9.85e-06	7.00e-04	6.27e-04	47,47,47			1.00	0.07	0.93
1221	0.0	0.01	0.0	0,47,0	1.04e-05	4.86e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

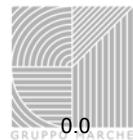


1667	3.49e-04	6.69e-04	0.0	47,47,0	9.85e-06	6.39e-04	6.27e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	0.01	0.0	0,47,0	2.19e-05	8.58e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
1668	6.58e-04	9.47e-04	0.0	47,47,0	2.01e-05	1.13e-03	8.73e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	0.01	0.0	0,47,0	2.19e-05	8.58e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
1669	6.58e-04	1.31e-03	0.0	47,47,0	2.01e-05	1.13e-03	8.73e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	6.80e-03	0.0	0,47,0	5.16e-06	9.95e-05	2.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
1670	5.98e-04	1.31e-03	0.0	47,47,0	4.73e-06	1.13e-03	5.60e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	4.04e-03	0.0	0,47,0	1.02e-06	5.16e-05	1.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.28e-03	0.0	0,47,0	0.0	5.32e-04	5.16e-04	47,47,47	0.0	0	0.0	0.0	0.0
1671	0.0	3.03e-03	0.0	0,47,0	0.0	5.16e-05	9.66e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.21e-03	0.0	0,47,0	0.0	1.77e-04	4.71e-04	47,47,47	0.0	0	0.0	0.0	0.0
1672	0.0	4.06e-03	0.0	0,47,0	0.0	4.61e-05	1.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.23e-03	0.0	0,47,0	0.0	2.66e-04	4.77e-04	47,47,47	0.0	0	0.0	0.0	0.0
1673	0.0	6.80e-03	0.0	0,47,0	4.57e-06	5.71e-05	2.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.00e-04	1.45e-03	0.0	47,47,0	4.21e-06	7.00e-04	5.48e-04	47,47,47	0.0	0	1.00	0.07	0.93
1674	0.0	0.01	0.0	0,47,0	2.53e-05	5.48e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.49e-04	1.45e-03	0.0	47,47,0	2.36e-05	7.00e-04	7.47e-04	47,47,47	0.0	0	1.00	0.07	0.93
1675	0.0	0.01	0.0	0,47,0	2.53e-05	5.48e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.49e-04	1.19e-03	0.0	47,47,0	2.36e-05	6.39e-04	7.47e-04	47,47,47	0.0	0	1.00	0.07	0.93
2291	0.0	0.01	0.0	0,47,0	3.16e-05	8.58e-04	3.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.58e-04	9.47e-04	0.0	47,47,0	2.91e-05	1.13e-03	8.73e-04	47,47,47	0.0	0	1.00	0.07	0.93
2292	0.0	0.01	0.0	0,47,0	3.16e-05	8.58e-04	3.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.58e-04	1.29e-03	0.0	47,47,0	2.91e-05	1.13e-03	8.73e-04	47,47,47	0.0	0	1.00	0.07	0.93
2293	0.0	4.84e-03	0.0	0,47,0	6.09e-06	2.38e-04	1.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.91e-04	1.29e-03	0.0	47,47,0	5.44e-06	9.80e-04	5.51e-04	47,47,47	0.0	0	1.00	0.07	0.93
2294	0.0	2.73e-03	0.0	0,47,0	1.26e-06	5.82e-05	8.98e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-03	0.0	0,47,0	1.11e-06	2.53e-04	4.31e-04	47,47,47	0.0	0	0.0	0.0	0.0
2295	0.0	1.99e-03	0.0	0,47,0	0.0	5.82e-05	6.59e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	0.0	4.96e-05	3.71e-04	47,47,47	0.0	0	0.0	0.0	0.0
2296	0.0	2.76e-03	0.0	0,47,0	0.0	4.96e-05	9.02e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.23e-03	0.0	0,47,0	0.0	4.96e-05	4.56e-04	47,47,47	0.0	0	0.0	0.0	0.0
2297	0.0	4.90e-03	0.0	0,47,0	4.57e-06	2.42e-04	1.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.45e-03	0.0	0,47,0	4.21e-06	2.72e-04	5.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
2298	0.0	0.01	0.0	0,47,0	2.53e-05	1.19e-03	3.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.87e-03	0.0	0,47,0	2.36e-05	4.97e-04	7.47e-04	47,47,47	0.0	0	0.0	0.0	0.0
2299	0.0	0.01	0.0	0,47,0	2.53e-05	1.19e-03	3.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.87e-03	0.0	0,47,0	2.36e-05	4.97e-04	7.47e-04	47,47,47	0.0	0	0.0	0.0	0.0
2400	0.0	5.91e-03	0.0	0,47,0	3.16e-05	3.08e-04	2.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.82e-04	0.0	0,47,0	2.91e-05	1.46e-04	2.93e-04	47,47,47	0.0	0	0.0	0.0	0.0
2401	0.0	5.91e-03	0.0	0,47,0	3.16e-05	3.08e-04	2.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.82e-04	0.0	0,47,0	2.91e-05	1.46e-04	2.93e-04	47,47,47	0.0	0	0.0	0.0	0.0
2402	0.0	3.05e-03	0.0	0,47,0	6.09e-06	2.38e-04	1.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.06e-04	0.0	0,47,0	5.44e-06	2.75e-05	1.85e-04	47,47,47	0.0	0	0.0	0.0	0.0
2403	0.0	1.86e-03	0.0	0,47,0	1.26e-06	5.82e-05	6.11e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.54e-04	0.0	0,47,0	1.11e-06	4.54e-05	1.66e-04	47,47,47	0.0	0	0.0	0.0	0.0
2404	0.0	1.37e-03	0.0	0,47,0	0.0	5.82e-05	4.70e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.20e-04	0.0	0,47,0	0.0	4.96e-05	1.50e-04	47,47,47	0.0	0	0.0	0.0	0.0
2405	0.0	1.82e-03	0.0	0,47,0	0.0	4.96e-05	6.03e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.70e-04	0.0	0,47,0	0.0	4.96e-05	2.27e-04	47,47,47	0.0	0	0.0	0.0	0.0
2406	0.0	3.14e-03	0.0	0,47,0	2.51e-06	2.42e-04	1.13e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.70e-04	0.0	0,47,0	2.14e-06	2.72e-04	5.08e-04	47,47,47	0.0	0	0.0	0.0	0.0
2407	0.0	5.97e-03	0.0	0,47,0	1.86e-05	1.19e-03	2.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.87e-03	0.0	0,47,0	1.70e-05	2.72e-04	7.24e-04	47,47,47	0.0	0	0.0	0.0	0.0
2408	0.0	5.97e-03	0.0	0,47,0	1.86e-05	1.19e-03	2.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.87e-03	0.0	0,47,0	1.70e-05	2.35e-04	7.24e-04	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	6.58e-04	0.01	0.0		3.16e-05	1.19e-03	4.77e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
10	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

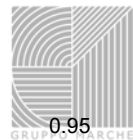
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1	0.0	0.03	0.0	0,47,0	2.07e-05	4.29e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.81e-04	0.0	0,47,0	2.01e-05	1.04e-04	1.82e-04	47,47,47	0.0	0	0.0	0.0	0.0
2	4.11e-04	0.03	0.0	47,47,0	2.07e-05	4.90e-04	0.01	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.26e-03	0.0	0,47,0	2.01e-05	1.04e-04	3.87e-04	47,47,47	0.0	0	0.0	0.0	0.0
3	4.11e-04	0.0	0.0	47,0,0	0.0	4.90e-04	2.26e-05	47,47,47	0.0	0	0.97	0.05	0.95

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	0.0	1.26e-03	0.0	0,47,0	0.0	3.42e-05	3.87e-04	47,47,47			0.0	0.0	0.0
4	3.88e-04	0.0	0.0	47,0,0	0.0	4.57e-04	3.03e-06	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	2.45e-04	0.0	0,47,0	0.0	6.54e-06	7.55e-05	47,47,47			0.0	0.0	0.0
5	1.75e-04	0.0	0.0	47,0,0	0.0	2.06e-04	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.35e-04	0.0	0,47,0	0.0	1.21e-06	3.95e-05	47,47,47			0.0	0.0	0.0
6	7.95e-05	0.0	0.0	47,0,0	0.0	9.37e-05	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.27e-04	0.0	0,47,0	0.0	0.0	3.62e-05	47,47,47			0.0	0.0	0.0
7	5.42e-05	0.0	0.0	47,0,0	0.0	6.38e-05	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.27e-04	0.0	0,47,0	0.0	0.0	3.60e-05	47,47,47			0.0	0.0	0.0
8	1.04e-04	0.0	0.0	47,0,0	0.0	1.23e-04	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.27e-04	0.0	0,47,0	0.0	0.0	3.59e-05	47,47,47			0.0	0.0	0.0
9	2.39e-04	0.0	0.0	47,0,0	0.0	2.81e-04	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.26e-04	0.0	0,47,0	0.0	0.0	3.56e-05	47,47,47			0.0	0.0	0.0
10	5.56e-04	0.0	0.0	47,0,0	0.0	6.55e-04	1.47e-06	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.68e-04	0.0	0,47,0	0.0	0.0	4.75e-05	47,47,47			0.0	0.0	0.0
11	1.10e-03	0.0	0.0	47,0,0	0.0	1.30e-03	9.06e-06	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	6.14e-04	0.0	0,47,0	0.0	1.48e-06	1.75e-04	47,47,47			0.0	0.0	0.0
12	1.10e-03	0.0	0.0	47,0,0	0.0	1.30e-03	9.06e-06	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	6.14e-04	0.0	0,47,0	0.0	1.48e-06	1.75e-04	47,47,47			0.0	0.0	0.0
470	0.0	0.03	0.0	0,47,0	2.07e-05	4.29e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-04	2.81e-04	0.0	47,47,0	2.01e-05	2.75e-04	1.82e-04	47,47,47			1.00	0.07	0.93
471	4.11e-04	0.03	0.0	47,47,0	2.07e-05	4.90e-04	0.01	47,47,47	0.0	0	0.97	0.05	0.95
	2.00e-04	1.26e-03	0.0	47,47,0	2.01e-05	2.75e-04	3.87e-04	47,47,47			1.00	0.07	0.93
472	4.11e-04	0.0	0.0	47,0,0	0.0	4.90e-04	2.26e-05	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.26e-03	0.0	0,47,0	0.0	3.42e-05	3.87e-04	47,47,47			0.0	0.0	0.0
473	3.88e-04	0.0	0.0	47,0,0	0.0	4.57e-04	3.03e-06	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	2.45e-04	0.0	0,47,0	0.0	6.54e-06	7.55e-05	47,47,47			0.0	0.0	0.0
474	1.75e-04	0.0	0.0	47,0,0	0.0	2.06e-04	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.35e-04	0.0	0,47,0	0.0	1.21e-06	3.95e-05	47,47,47			0.0	0.0	0.0
475	7.95e-05	0.0	0.0	47,0,0	0.0	9.37e-05	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.27e-04	0.0	0,47,0	0.0	0.0	3.62e-05	47,47,47			0.0	0.0	0.0
476	5.42e-05	0.0	0.0	47,0,0	0.0	6.38e-05	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.27e-04	0.0	0,47,0	0.0	0.0	3.60e-05	47,47,47			0.0	0.0	0.0
477	1.04e-04	0.0	0.0	47,0,0	0.0	1.23e-04	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.27e-04	0.0	0,47,0	0.0	0.0	3.59e-05	47,47,47			0.0	0.0	0.0
478	2.39e-04	0.0	0.0	47,0,0	0.0	2.81e-04	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.26e-04	0.0	0,47,0	0.0	0.0	3.56e-05	47,47,47			0.0	0.0	0.0
479	5.56e-04	0.0	0.0	47,0,0	0.0	6.55e-04	1.47e-06	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.68e-04	0.0	0,47,0	0.0	0.0	4.75e-05	47,47,47			0.0	0.0	0.0
480	1.10e-03	0.0	0.0	47,0,0	0.0	1.30e-03	9.06e-06	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	6.14e-04	0.0	0,47,0	0.0	1.48e-06	1.75e-04	47,47,47			0.0	0.0	0.0
481	1.10e-03	0.0	0.0	47,0,0	0.0	1.30e-03	9.06e-06	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	6.14e-04	0.0	0,47,0	0.0	1.48e-06	1.75e-04	47,47,47			0.0	0.0	0.0
841	0.0	0.04	0.0	0,47,0	4.23e-06	3.40e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-04	0.0	0.0	47,0,0	3.49e-06	2.75e-04	4.32e-05	47,47,47			1.00	0.07	0.93
842	0.0	0.04	0.0	0,47,0	4.23e-06	3.40e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-04	0.0	0.0	47,0,0	3.49e-06	2.75e-04	4.32e-05	47,47,47			1.00	0.07	0.93
1241	0.0	0.04	0.0	0,47,0	2.88e-05	2.19e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.27e-04	0.0	0.0	47,0,0	2.86e-05	3.01e-04	3.62e-05	47,47,47			1.00	0.07	0.93
1242	1.70e-03	0.04	0.0	47,47,0	2.88e-05	2.01e-03	0.01	47,47,47	0.0	0	0.97	0.05	0.95
	2.27e-04	1.68e-03	0.0	47,47,0	2.86e-05	3.01e-04	4.99e-04	47,47,47			1.00	0.07	0.93
1243	4.22e-03	0.0	0.0	47,0,0	2.53e-05	4.97e-03	3.07e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.05e-04	1.68e-03	0.0	47,47,0	2.53e-05	1.24e-04	4.99e-04	47,47,47			1.00	0.07	0.93
1244	6.07e-03	0.0	0.0	47,0,0	9.03e-06	7.13e-03	5.18e-06	47,47,47	0.0	0	0.97	0.05	0.95
	1.85e-04	0.0	0.0	47,0,0	9.03e-06	2.23e-04	5.86e-06	47,47,47			1.00	0.07	0.93
1245	7.18e-03	0.0	0.0	47,0,0	4.33e-06	8.45e-03	5.38e-06	47,47,47	0.0	0	0.97	0.05	0.95
	1.85e-04	0.0	0.0	47,0,0	4.32e-06	2.23e-04	5.86e-06	47,47,47			1.00	0.07	0.93
1246	7.60e-03	0.0	0.0	47,0,0	1.22e-06	8.94e-03	5.38e-06	47,47,47	0.0	0	0.97	0.05	0.95
	1.63e-04	0.0	0.0	47,0,0	1.22e-06	1.93e-04	1.88e-06	47,47,47			1.00	0.07	0.93
1247	7.60e-03	0.0	0.0	47,0,0	0.0	8.94e-03	0.0	47,47,47	0.0	0	0.97	0.05	0.95
	1.51e-04	0.0	0.0	47,0,0	0.0	1.79e-04	2.52e-06	47,47,47			1.00	0.07	0.93
1248	7.32e-03	0.0	0.0	47,0,0	4.18e-06	8.62e-03	4.43e-06	47,47,47	0.0	0	0.97	0.05	0.95
	1.45e-04	0.0	0.0	47,0,0	4.17e-06	1.72e-04	2.52e-06	47,47,47			1.00	0.07	0.93
1249	6.32e-03	0.0	0.0	47,0,0	9.62e-06	7.44e-03	4.67e-06	47,47,47	0.0	0	0.97	0.05	0.95
	1.40e-04	0.0	0.0	47,0,0	9.62e-06	1.66e-04	3.80e-06	47,47,47			1.00	0.07	0.93
1250	4.64e-03	0.0	0.0	47,0,0	1.79e-05	5.46e-03	1.83e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.17e-04	9.33e-05	0.0	47,47,0	1.79e-05	1.40e-04	3.72e-05	47,47,47			1.00	0.07	0.93
1251	2.32e-03	4.79e-04	0.0	47,47,0	4.28e-05	2.74e-03	1.72e-04	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	2.10e-03	0.0	0,47,0	4.27e-05	4.22e-05	6.18e-04	47,47,47			0.0	0.0	0.0
1252	0.0	4.79e-04	0.0	0,47,0	4.28e-05	3.69e-05	1.72e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.10e-03	0.0	0,47,0	4.27e-05	4.22e-05	6.18e-04	47,47,47			0.0	0.0	0.0
1725	0.0	0.02	0.0	0,47,0	4.72e-05	7.91e-04	5.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.27e-04	6.36e-04	0.0	47,47,0	4.66e-05	3.01e-04	2.05e-04	47,47,47			1.00	0.07	0.93
1726	1.70e-03	0.02	0.0	47,47,0	4.72e-05	2.01e-03	5.62e-03	47,47,47	0.0	0	0.97	0.05	0.95
	2.27e-04	1.79e-03	0.0	47,47,0	4.66e-05	3.01e-04	6.89e-04	47,47,47			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

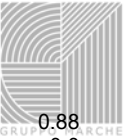


1727	4.22e-03	6.47e-04	0.0	47,47,0	4.31e-05	4.97e-03	2.81e-04	47,47,47	0.0	0	0.97	0.05	0.95
	1.05e-04	1.79e-03	0.0	47,47,0	4.31e-05	1.86e-04	6.89e-04	47,47,47			1.00	0.07	0.93
1728	6.07e-03	2.62e-04	0.0	47,47,0	2.97e-05	7.13e-03	1.40e-04	47,47,47	0.0	0	0.97	0.05	0.95
	1.85e-04	0.0	0.0	47,0,0	2.97e-05	2.23e-04	8.53e-06	47,47,47			1.00	0.07	0.93
1729	7.18e-03	0.0	0.0	47,0,0	1.42e-05	8.45e-03	4.02e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.85e-04	0.0	0.0	47,0,0	1.42e-05	2.23e-04	8.53e-06	47,47,47			1.00	0.07	0.93
1730	7.60e-03	0.0	0.0	47,0,0	4.15e-06	8.94e-03	4.02e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.63e-04	3.01e-06	0.0	47,47,0	4.14e-06	1.93e-04	3.73e-06	47,47,47			1.00	0.07	0.93
1731	7.60e-03	0.0	0.0	47,0,0	2.56e-06	8.94e-03	3.72e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.51e-04	9.16e-06	0.0	47,47,0	2.56e-06	1.79e-04	6.97e-06	47,47,47			1.00	0.07	0.93
1732	7.32e-03	0.0	0.0	47,0,0	1.12e-05	8.62e-03	1.74e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.45e-04	9.16e-06	0.0	47,47,0	1.12e-05	1.72e-04	6.97e-06	47,47,47			1.00	0.07	0.93
1733	6.32e-03	0.0	0.0	47,0,0	2.47e-05	7.44e-03	4.67e-06	47,47,47	0.0	0	0.97	0.05	0.95
	1.40e-04	0.0	0.0	47,0,0	2.47e-05	1.66e-04	5.68e-06	47,47,47			1.00	0.07	0.93
1734	4.64e-03	0.0	0.0	47,0,0	4.01e-05	5.46e-03	1.83e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.17e-04	1.06e-04	0.0	47,47,0	4.01e-05	1.40e-04	4.06e-05	47,47,47			1.00	0.07	0.93
1735	2.32e-03	4.79e-04	0.0	47,47,0	4.69e-05	2.74e-03	1.72e-04	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	2.10e-03	0.0	0,47,0	4.67e-05	1.01e-04	6.18e-04	47,47,47			0.0	0.0	0.0
1736	0.0	4.79e-04	0.0	0,47,0	4.69e-05	4.09e-05	1.72e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.10e-03	0.0	0,47,0	4.67e-05	1.01e-04	6.18e-04	47,47,47			0.0	0.0	0.0
2336	0.0	0.02	0.0	0,47,0	4.72e-05	7.91e-04	5.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.36e-04	0.0	0,47,0	4.66e-05	2.64e-05	2.05e-04	47,47,47			0.0	0.0	0.0
2337	0.0	0.02	0.0	0,47,0	4.72e-05	7.91e-04	5.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.79e-03	0.0	0,47,0	4.66e-05	1.86e-04	6.89e-04	47,47,47			0.0	0.0	0.0
2338	0.0	6.47e-04	0.0	0,47,0	4.31e-05	4.34e-05	2.81e-04	47,47,47	0.0	0	0.0	0.0	0.0
	7.35e-05	1.79e-03	0.0	47,47,0	4.31e-05	1.86e-04	6.89e-04	47,47,47			1.00	0.07	0.93
2339	2.72e-04	2.62e-04	0.0	47,47,0	2.97e-05	3.15e-04	1.40e-04	47,47,47	0.0	0	0.97	0.05	0.95
	1.10e-04	0.0	0.0	47,0,0	2.97e-05	1.37e-04	8.53e-06	47,47,47			1.00	0.07	0.93
2340	5.12e-04	0.0	0.0	47,0,0	1.42e-05	6.13e-04	4.02e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.10e-04	0.0	0.0	47,0,0	1.42e-05	1.37e-04	8.53e-06	47,47,47			1.00	0.07	0.93
2341	7.51e-04	0.0	0.0	47,0,0	4.15e-06	8.94e-04	4.02e-05	47,47,47	0.0	0	0.97	0.05	0.95
	3.93e-05	3.01e-06	0.0	47,47,0	4.14e-06	5.17e-05	3.73e-06	47,47,47			1.00	0.07	0.93
2342	7.85e-04	0.0	0.0	47,0,0	2.56e-06	9.25e-04	3.72e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.07e-05	9.16e-06	0.0	47,47,0	2.56e-06	2.08e-05	6.97e-06	47,47,47			1.00	0.07	0.93
2343	7.85e-04	0.0	0.0	47,0,0	1.12e-05	9.25e-04	1.74e-05	47,47,47	0.0	0	0.97	0.05	0.95
	1.10e-05	9.16e-06	0.0	47,47,0	1.12e-05	1.46e-05	6.97e-06	47,47,47			1.00	0.07	0.93
2344	6.33e-04	0.0	0.0	47,0,0	2.47e-05	7.41e-04	2.02e-06	47,47,47	0.0	0	0.97	0.05	0.95
	4.02e-05	0.0	0.0	47,0,0	2.47e-05	5.51e-05	5.68e-06	47,47,47			1.00	0.07	0.93
2345	4.63e-04	0.0	0.0	47,0,0	4.01e-05	5.42e-04	1.68e-06	47,47,47	0.0	0	0.97	0.05	0.95
	4.02e-05	1.06e-04	0.0	47,47,0	4.01e-05	5.51e-05	4.06e-05	47,47,47			1.00	0.07	0.93
2346	1.60e-04	3.30e-04	0.0	47,47,0	4.69e-05	1.87e-04	1.34e-04	47,47,47	0.0	0	0.97	0.05	0.95
	0.0	1.80e-03	0.0	0,47,0	4.67e-05	1.01e-04	5.95e-04	47,47,47			0.0	0.0	0.0
2347	0.0	3.30e-04	0.0	0,47,0	4.69e-05	4.09e-05	1.34e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.80e-03	0.0	0,47,0	4.67e-05	1.01e-04	5.95e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	7.60e-03	0.04	0.0		4.72e-05	8.94e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
11	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2230	0.0	7.35e-03	0.0	0,47,0	3.55e-04	4.89e-04	5.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.44e-03	0.0	0,47,0	3.44e-04	1.08e-04	5.12e-04	47,47,47			0.0	0.0	0.0
2231	5.62e-03	7.35e-03	0.0	47,47,0	3.55e-04	6.56e-03	5.52e-03	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	1.44e-03	0.0	0,47,0	3.44e-04	1.73e-04	5.12e-04	47,47,47			0.0	0.0	0.0
2232	0.01	0.0	0.0	47,0,0	3.04e-04	0.01	2.23e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	3.44e-04	0.0	0,47,0	2.99e-04	1.73e-04	2.67e-04	47,47,47			0.0	0.0	0.0
2233	0.01	0.0	0.0	47,0,0	4.52e-06	0.02	2.23e-04	47,47,47	0.0	0	0.39	0.12	0.88
	1.86e-04	3.35e-04	0.0	47,47,0	4.18e-06	2.49e-04	2.60e-04	47,47,47			1.00	0.07	0.93
2234	0.01	0.0	0.0	47,0,0	1.22e-06	0.02	7.13e-05	47,47,47	0.0	0	0.39	0.12	0.88
	1.86e-04	0.0	0.0	47,0,0	1.19e-06	2.49e-04	4.04e-05	47,47,47			1.00	0.07	0.93
2235	0.01	0.0	0.0	47,0,0	1.54e-06	0.02	5.55e-05	47,47,47	0.0	0	0.39	0.12	0.88
	1.78e-04	0.0	0.0	47,0,0	1.49e-06	2.45e-04	3.99e-05	47,47,47			1.00	0.07	0.93
2236	0.01	0.0	0.0	47,0,0	5.20e-06	0.02	2.52e-04	47,47,47	0.0	0	0.39	0.12	0.88
	1.78e-04	3.21e-04	0.0	47,47,0	4.81e-06	2.45e-04	2.18e-04	47,47,47			1.00	0.07	0.93
2237	0.01	0.0	0.0	47,0,0	3.08e-04	0.01	2.52e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	3.39e-04	0.0	0,47,0	3.03e-04	1.65e-04	2.58e-04	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2238	5.52e-03	7.38e-03	0.0	47,47,0	3.60e-04	6.41e-03	5.45e-03	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	1.48e-03	0.0	0,47,0	3.49e-04	1.65e-04	5.36e-04	47,47,47			0.0	0.0	0.0
2239	0.0	7.38e-03	0.0	0,47,0	3.60e-04	5.32e-04	5.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.48e-03	0.0	0,47,0	3.49e-04	1.26e-04	5.36e-04	47,47,47			0.0	0.0	0.0
2522	0.0	7.35e-03	0.0	0,47,0	3.55e-04	4.89e-04	5.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.44e-03	0.0	0,47,0	3.44e-04	1.08e-04	5.12e-04	47,47,47			0.0	0.0	0.0
2523	5.62e-03	7.35e-03	0.0	47,47,0	3.55e-04	6.56e-03	5.52e-03	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	1.44e-03	0.0	0,47,0	3.44e-04	1.73e-04	5.12e-04	47,47,47			0.0	0.0	0.0
2524	0.01	0.0	0.0	47,0,0	3.04e-04	0.01	2.23e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	3.44e-04	0.0	0,47,0	2.99e-04	1.73e-04	2.67e-04	47,47,47			0.0	0.0	0.0
2525	0.0	0.0	0.0	47,0,0	4.52e-06	0.02	2.23e-04	47,47,47	0.0	0	0.39	0.12	0.88
	1.86e-04	3.35e-04	0.0	47,47,0	4.18e-06	2.49e-04	2.60e-04	47,47,47			1.00	0.07	0.93
2526	0.01	0.0	0.0	47,0,0	1.22e-06	0.02	7.13e-05	47,47,47	0.0	0	0.39	0.12	0.88
	1.86e-04	0.0	0.0	47,0,0	1.19e-06	2.49e-04	4.04e-05	47,47,47			1.00	0.07	0.93
2527	0.01	0.0	0.0	47,0,0	1.54e-06	0.02	5.55e-05	47,47,47	0.0	0	0.39	0.12	0.88
	1.78e-04	0.0	0.0	47,0,0	1.49e-06	2.45e-04	3.99e-05	47,47,47			1.00	0.07	0.93
2528	0.01	0.0	0.0	47,0,0	5.20e-06	0.02	2.52e-04	47,47,47	0.0	0	0.39	0.12	0.88
	1.78e-04	3.21e-04	0.0	47,47,0	4.81e-06	2.45e-04	2.18e-04	47,47,47			1.00	0.07	0.93
2529	0.01	0.0	0.0	47,0,0	3.08e-04	0.01	2.52e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	3.39e-04	0.0	0,47,0	3.03e-04	1.65e-04	2.58e-04	47,47,47			0.0	0.0	0.0
2530	5.52e-03	7.38e-03	0.0	47,47,0	3.60e-04	6.41e-03	5.45e-03	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	1.48e-03	0.0	0,47,0	3.49e-04	1.65e-04	5.36e-04	47,47,47			0.0	0.0	0.0
2531	0.0	7.38e-03	0.0	0,47,0	3.60e-04	5.32e-04	5.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.48e-03	0.0	0,47,0	3.49e-04	1.26e-04	5.36e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	7.38e-03	0.0		3.60e-04	0.02	5.52e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
13	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
411	0.0	0.01	0.0	0,47,0	1.44e-06	2.15e-04	4.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.32e-04	0.0	0,47,0	1.31e-06	4.27e-04	3.47e-04	47,47,47			0.0	0.0	0.0
412	0.0	0.01	0.0	0,47,0	1.44e-06	2.15e-04	4.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.32e-04	0.0	0,47,0	1.31e-06	4.27e-04	3.47e-04	47,47,47			0.0	0.0	0.0
413	0.0	8.20e-03	0.0	0,47,0	0.0	2.06e-04	2.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.21e-04	0.0	0,47,0	0.0	2.27e-04	3.06e-04	47,47,47			0.0	0.0	0.0
414	0.0	5.54e-03	0.0	0,47,0	0.0	1.45e-04	1.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.50e-04	0.0	0,47,0	0.0	1.34e-04	2.09e-04	47,47,47			0.0	0.0	0.0
415	0.0	4.52e-03	0.0	0,47,0	0.0	5.64e-05	1.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.53e-04	0.0	0,47,0	0.0	4.32e-05	1.31e-04	47,47,47			0.0	0.0	0.0
416	0.0	5.43e-03	0.0	0,47,0	0.0	1.61e-04	1.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.53e-04	0.0	0,47,0	0.0	1.51e-04	2.24e-04	47,47,47			0.0	0.0	0.0
417	0.0	7.89e-03	0.0	0,47,0	0.0	2.23e-04	2.57e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.25e-04	0.0	0,47,0	0.0	2.58e-04	3.36e-04	47,47,47			0.0	0.0	0.0
418	0.0	0.01	0.0	0,47,0	1.90e-06	2.68e-04	4.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.69e-04	0.0	0,47,0	1.77e-06	5.54e-04	3.87e-04	47,47,47			0.0	0.0	0.0
419	0.0	0.01	0.0	0,47,0	1.90e-06	2.68e-04	4.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.69e-04	0.0	0,47,0	1.77e-06	5.54e-04	3.87e-04	47,47,47			0.0	0.0	0.0
830	0.0	0.01	0.0	0,47,0	5.19e-06	3.75e-04	4.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.32e-04	0.0	0,47,0	4.66e-06	4.27e-04	3.47e-04	47,47,47			0.0	0.0	0.0
831	0.0	0.01	0.0	0,47,0	5.19e-06	3.75e-04	4.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.32e-04	0.0	0,47,0	4.66e-06	4.27e-04	3.78e-04	47,47,47			0.0	0.0	0.0
832	0.0	8.20e-03	0.0	0,47,0	0.0	2.06e-04	2.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.70e-04	0.0	0,47,0	0.0	2.50e-04	3.78e-04	47,47,47			0.0	0.0	0.0
833	0.0	5.54e-03	0.0	0,47,0	0.0	1.45e-04	1.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.72e-04	0.0	0,47,0	0.0	1.34e-04	3.69e-04	47,47,47			0.0	0.0	0.0
834	0.0	4.52e-03	0.0	0,47,0	0.0	5.64e-05	1.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.86e-04	0.0	0,47,0	0.0	4.32e-05	3.76e-04	47,47,47			0.0	0.0	0.0
835	0.0	5.43e-03	0.0	0,47,0	0.0	1.61e-04	1.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.86e-04	0.0	0,47,0	0.0	1.51e-04	3.76e-04	47,47,47			0.0	0.0	0.0
836	0.0	7.89e-03	0.0	0,47,0	1.47e-06	2.23e-04	2.57e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.98e-04	0.0	0,47,0	1.27e-06	2.84e-04	4.09e-04	47,47,47			0.0	0.0	0.0
837	0.0	0.01	0.0	0,47,0	6.28e-06	4.00e-04	4.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.69e-04	0.0	0,47,0	5.61e-06	5.54e-04	4.09e-04	47,47,47			0.0	0.0	0.0
838	0.0	0.01	0.0	0,47,0	6.28e-06	4.00e-04	4.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.69e-04	0.0	0,47,0	5.61e-06	5.54e-04	3.87e-04	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

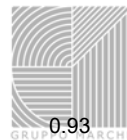


Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
15	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	7.9	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1331	9.31e-04	0.0	0.0	47,0,0	3.48e-05	1.20e-03	1.41e-04	47,47,47	0.0	0	0.54	0.13	0.87
	0.0	2.40e-03	0.0	0,47,0	3.18e-05	3.06e-04	9.67e-04	47,47,47			0.0	0.0	0.0
1332	3.99e-03	0.0	0.0	47,0,0	3.48e-05	5.83e-03	7.89e-04	47,47,47	0.0	0	0.54	0.13	0.87
	0.0	2.40e-03	0.0	0,47,0	3.18e-05	3.06e-04	9.67e-04	47,47,47			0.0	0.0	0.0
1333	6.55e-03	0.0	0.0	47,0,0	1.07e-05	0.01	7.89e-04	47,47,47	0.0	0	0.54	0.13	0.87
	1.49e-03	1.02e-03	0.0	47,47,0	9.41e-06	1.63e-03	9.61e-04	47,47,47			1.00	0.07	0.93
1334	6.56e-03	0.0	0.0	47,0,0	1.21e-06	0.01	2.55e-04	47,47,47	0.0	0	0.54	0.13	0.87
	1.49e-03	1.02e-03	0.0	47,47,0	1.06e-06	1.63e-03	9.61e-04	47,47,47			1.00	0.07	0.93
1335	6.56e-03	0.0	0.0	47,0,0	1.09e-05	0.01	7.89e-04	47,47,47	0.0	0	0.54	0.13	0.87
	1.49e-03	1.02e-03	0.0	47,47,0	9.60e-06	1.62e-03	9.55e-04	47,47,47			1.00	0.07	0.93
1336	4.04e-03	0.0	0.0	47,0,0	3.43e-05	5.93e-03	7.69e-04	47,47,47	0.0	0	0.54	0.13	0.87
	0.0	2.26e-03	0.0	0,47,0	3.14e-05	3.11e-04	9.36e-04	47,47,47			0.0	0.0	0.0
1337	9.65e-04	0.0	0.0	47,0,0	3.43e-05	1.25e-03	1.15e-04	47,47,47	0.0	0	0.54	0.13	0.87
	0.0	2.26e-03	0.0	0,47,0	3.14e-05	3.11e-04	9.36e-04	47,47,47			0.0	0.0	0.0
1847	9.31e-04	0.0	0.0	47,0,0	3.48e-05	1.20e-03	1.41e-04	47,47,47	0.0	0	0.54	0.13	0.87
	0.0	2.40e-03	0.0	0,47,0	3.18e-05	3.06e-04	9.67e-04	47,47,47			0.0	0.0	0.0
1848	3.99e-03	0.0	0.0	47,0,0	3.48e-05	5.83e-03	7.89e-04	47,47,47	0.0	0	0.54	0.13	0.87
	0.0	2.40e-03	0.0	0,47,0	3.18e-05	3.06e-04	9.67e-04	47,47,47			0.0	0.0	0.0
1849	6.55e-03	0.0	0.0	47,0,0	1.07e-05	0.01	7.89e-04	47,47,47	0.0	0	0.54	0.13	0.87
	1.49e-03	1.02e-03	0.0	47,47,0	9.41e-06	1.63e-03	9.61e-04	47,47,47			1.00	0.07	0.93
1850	6.56e-03	0.0	0.0	47,0,0	1.21e-06	0.01	2.55e-04	47,47,47	0.0	0	0.54	0.13	0.87
	1.49e-03	1.02e-03	0.0	47,47,0	1.06e-06	1.63e-03	9.61e-04	47,47,47			1.00	0.07	0.93
1851	6.56e-03	0.0	0.0	47,0,0	1.09e-05	0.01	7.89e-04	47,47,47	0.0	0	0.54	0.13	0.87
	1.49e-03	1.02e-03	0.0	47,47,0	9.60e-06	1.62e-03	9.55e-04	47,47,47			1.00	0.07	0.93
1852	4.04e-03	0.0	0.0	47,0,0	3.43e-05	5.93e-03	7.69e-04	47,47,47	0.0	0	0.54	0.13	0.87
	0.0	2.26e-03	0.0	0,47,0	3.14e-05	3.11e-04	9.36e-04	47,47,47			0.0	0.0	0.0
1853	9.65e-04	0.0	0.0	47,0,0	3.43e-05	1.25e-03	1.15e-04	47,47,47	0.0	0	0.54	0.13	0.87
	0.0	2.26e-03	0.0	0,47,0	3.14e-05	3.11e-04	9.36e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	6.56e-03	2.40e-03	0.0		3.48e-05	0.01	9.67e-04		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
18	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	7.9	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1847	0.0	1.23e-03	0.0	0,47,0	1.59e-05	5.33e-04	1.38e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.54e-03	0.0	0,47,0	1.53e-05	1.58e-04	7.98e-04	47,47,47			0.0	0.0	0.0
1848	0.0	1.23e-03	0.0	0,47,0	1.59e-05	1.43e-03	2.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.60e-03	6.07e-03	0.0	47,47,0	1.53e-05	0.02	8.49e-03	47,47,47			1.00	0.07	0.93
1849	0.0	1.49e-03	0.0	0,47,0	1.24e-05	1.43e-03	2.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	9.90e-03	0.0	47,47,0	1.43e-05	0.03	0.01	47,47,47			1.00	0.07	0.93
1850	0.0	1.49e-03	0.0	0,47,0	1.85e-06	4.62e-04	1.68e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	9.98e-03	0.0	47,47,0	9.33e-06	0.03	0.01	47,47,47			1.00	0.07	0.93
1851	0.0	1.48e-03	0.0	0,47,0	1.30e-05	1.40e-03	2.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	9.98e-03	0.0	47,47,0	1.50e-05	0.03	0.01	47,47,47			1.00	0.07	0.93
1852	0.0	1.25e-03	0.0	0,47,0	1.68e-05	1.40e-03	2.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.00e-03	6.27e-03	0.0	47,47,0	1.61e-05	0.02	8.85e-03	47,47,47			1.00	0.07	0.93
1853	0.0	1.25e-03	0.0	0,47,0	1.68e-05	6.11e-04	1.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.44e-03	0.0	0,47,0	1.61e-05	2.30e-04	8.31e-04	47,47,47			0.0	0.0	0.0
2590	0.0	1.23e-03	0.0	0,47,0	1.59e-05	5.33e-04	1.38e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.54e-03	0.0	0,47,0	1.53e-05	1.58e-04	7.98e-04	47,47,47			0.0	0.0	0.0
2591	0.0	1.23e-03	0.0	0,47,0	1.59e-05	1.43e-03	2.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.60e-03	6.07e-03	0.0	47,47,0	1.53e-05	0.02	8.49e-03	47,47,47			1.00	0.07	0.93
2592	0.0	1.49e-03	0.0	0,47,0	1.24e-05	1.43e-03	2.31e-03	47,47,47	0.0	0	0.0	0.0	0.0



	0.01	9.90e-03	0.0	47,47,0	1.43e-05	0.03	0.01	47,47,47		1.00	0.07	0.93
2593	0.0	1.49e-03	0.0	0,47,0	1.85e-06	4.62e-04	1.68e-03	47,47,47	0.0	0	0.0	0.0
	0.01	9.98e-03	0.0	47,47,0	9.33e-06	0.03	0.01	47,47,47		1.00	0.07	0.93
2594	0.0	1.48e-03	0.0	0,47,0	1.30e-05	1.40e-03	2.26e-03	47,47,47	0.0	0	0.0	0.0
	0.01	9.98e-03	0.0	47,47,0	1.50e-05	0.03	0.01	47,47,47		1.00	0.07	0.93
2595	0.0	1.25e-03	0.0	0,47,0	1.68e-05	1.40e-03	2.26e-03	47,47,47	0.0	0	0.0	0.0
	7.00e-03	6.27e-03	0.0	47,47,0	1.61e-05	0.02	8.85e-03	47,47,47		1.00	0.07	0.93
2596	0.0	1.25e-03	0.0	0,47,0	1.68e-05	6.11e-04	1.54e-03	47,47,47	0.0	0	0.0	0.0
	0.0	2.44e-03	0.0	0,47,0	1.61e-05	2.30e-04	8.31e-04	47,47,47		0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26			
	0.01	9.98e-03	0.0		1.68e-05	0.03	0.01		0.0			

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
24	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
137	0.0	0.03	0.0	0,47,0	2.96e-06	4.07e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.77e-05	0.0	0.0	47,0,0	0.0	9.43e-04	8.76e-04	47,47,47			1.00	0.08	0.92
138	0.0	0.03	0.0	0,47,0	4.79e-06	4.07e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.53e-04	1.25e-04	0.0	47,47,0	2.94e-06	9.43e-04	8.76e-04	47,47,47			1.00	0.08	0.92
139	0.0	0.03	0.0	0,47,0	4.79e-06	3.95e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.53e-04	2.90e-04	0.0	47,47,0	2.94e-06	9.25e-04	8.75e-04	47,47,47			1.00	0.08	0.92
140	0.0	0.02	0.0	0,47,0	0.0	7.83e-04	7.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.90e-04	0.0	0,47,0	0.0	1.45e-04	2.00e-04	47,47,47			0.0	0.0	0.0
141	0.0	0.04	0.0	0,47,0	5.20e-06	5.11e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.26e-04	2.58e-04	0.0	47,47,0	1.18e-06	1.18e-03	1.07e-03	47,47,47			1.00	0.08	0.92
142	0.0	0.04	0.0	0,47,0	6.19e-06	5.15e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.26e-04	0.0	0.0	47,0,0	1.88e-06	1.26e-03	1.15e-03	47,47,47			1.00	0.08	0.92
143	0.0	0.04	0.0	0,47,0	6.19e-06	5.15e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.10e-04	2.87e-04	0.0	47,47,0	1.88e-06	1.26e-03	1.15e-03	47,47,47			1.00	0.08	0.92
144	0.0	0.02	0.0	0,47,0	0.0	8.48e-04	7.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.87e-04	0.0	0,47,0	0.0	4.47e-05	1.05e-04	47,47,47			0.0	0.0	0.0
606	0.0	0.03	0.0	0,47,0	2.96e-06	4.07e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.38e-04	3.81e-04	0.0	47,47,0	0.0	9.43e-04	8.76e-04	47,47,47			1.00	0.08	0.92
607	0.0	0.03	0.0	0,47,0	6.58e-06	4.07e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.38e-04	4.71e-04	0.0	47,47,0	6.22e-06	9.43e-04	8.76e-04	47,47,47			1.00	0.08	0.92
608	0.0	0.03	0.0	0,47,0	6.58e-06	3.95e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.53e-04	7.28e-04	0.0	47,47,0	6.22e-06	9.25e-04	8.75e-04	47,47,47			1.00	0.08	0.92
609	0.0	0.02	0.0	0,47,0	0.0	7.83e-04	7.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.28e-04	0.0	0,47,0	0.0	1.45e-04	2.53e-04	47,47,47			0.0	0.0	0.0
610	0.0	0.04	0.0	0,47,0	5.20e-06	5.11e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.26e-04	6.36e-04	0.0	47,47,0	3.95e-06	1.18e-03	1.07e-03	47,47,47			1.00	0.08	0.92
611	0.0	0.04	0.0	0,47,0	7.05e-06	5.15e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.26e-04	2.49e-04	0.0	47,47,0	5.95e-06	1.26e-03	1.15e-03	47,47,47			1.00	0.08	0.92
612	0.0	0.04	0.0	0,47,0	7.05e-06	5.15e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.10e-04	7.27e-04	0.0	47,47,0	5.95e-06	1.26e-03	1.15e-03	47,47,47			1.00	0.08	0.92
613	0.0	0.02	0.0	0,47,0	1.18e-06	8.48e-04	7.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.27e-04	0.0	0,47,0	1.07e-06	6.09e-05	2.20e-04	47,47,47			0.0	0.0	0.0
964	0.0	0.03	0.0	0,47,0	1.19e-06	1.60e-03	9.99e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.84e-04	1.40e-03	0.0	47,47,0	0.0	7.30e-04	5.07e-04	47,47,47			1.00	0.08	0.92
965	0.0	0.03	0.0	0,47,0	9.05e-06	1.60e-03	9.99e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.84e-04	1.40e-03	0.0	47,47,0	8.93e-06	7.30e-04	5.07e-04	47,47,47			1.00	0.08	0.92
966	0.0	0.02	0.0	0,47,0	9.05e-06	1.55e-03	9.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.30e-04	1.13e-03	0.0	47,47,0	8.93e-06	3.56e-04	4.35e-04	47,47,47			1.00	0.08	0.92
967	0.0	0.02	0.0	0,47,0	1.51e-06	4.09e-04	6.21e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.55e-04	0.0	0,47,0	1.48e-06	1.21e-04	2.85e-04	47,47,47			0.0	0.0	0.0
968	0.0	0.03	0.0	0,47,0	7.10e-06	2.20e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.88e-04	0.0	0,47,0	6.87e-06	4.87e-04	5.23e-04	47,47,47			0.0	0.0	0.0
969	0.0	0.03	0.0	0,47,0	1.16e-05	2.21e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.40e-04	0.0	0,47,0	1.13e-05	4.87e-04	5.23e-04	47,47,47			0.0	0.0	0.0
970	0.0	0.03	0.0	0,47,0	1.16e-05	2.21e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.60e-04	0.0	0,47,0	1.13e-05	4.39e-04	4.86e-04	47,47,47			0.0	0.0	0.0
971	0.0	0.02	0.0	0,47,0	2.86e-06	4.84e-04	6.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.60e-04	0.0	0,47,0	2.80e-06	6.50e-05	2.92e-04	47,47,47			0.0	0.0	0.0
1378	0.0	0.02	0.0	0,47,0	3.80e-06	7.15e-04	7.28e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.91e-04	1.40e-03	0.0	47,47,0	3.65e-06	7.30e-04	5.07e-04	47,47,47			1.00	0.08	0.92
1379	0.0	0.02	0.0	0,47,0	1.15e-05	7.26e-04	7.28e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



	2.91e-04	1.40e-03	0.0	47,47,0	1.14e-05	7.30e-04	5.07e-04	47,47,47			1.00	0.08	0.92
1380	0.0	0.02	0.0	0,47,0	1.15e-05	7.26e-04	6.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.13e-03	0.0	0,47,0	1.14e-05	3.19e-04	3.53e-04	47,47,47			0.0	0.0	0.0
1381	0.0	0.02	0.0	0,47,0	2.70e-06	1.80e-04	4.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.55e-04	0.0	0,47,0	2.68e-06	1.58e-04	3.11e-04	47,47,47			0.0	0.0	0.0
1382	0.0	0.02	0.0	0,47,0	1.11e-05	1.15e-03	8.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.88e-04	0.0	0,47,0	1.09e-05	1.58e-04	3.11e-04	47,47,47			0.0	0.0	0.0
1383	0.0	0.02	0.0	0,47,0	2.18e-05	1.15e-03	8.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.20e-04	0.0	0,47,0	2.16e-05	1.13e-04	2.78e-04	47,47,47			0.0	0.0	0.0
1384	0.0	0.02	0.0	0,47,0	2.18e-05	1.15e-03	8.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.60e-04	0.0	0,47,0	2.16e-05	1.13e-04	2.92e-04	47,47,47			0.0	0.0	0.0
1385	0.0	0.02	0.0	0,47,0	8.69e-06	2.05e-04	5.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.60e-04	0.0	0,47,0	8.55e-06	6.50e-05	2.92e-04	47,47,47			0.0	0.0	0.0
1901	0.0	0.02	0.0	0,47,0	1.34e-05	1.31e-03	5.69e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.91e-04	1.26e-03	0.0	47,47,0	1.30e-05	9.48e-04	9.92e-04	47,47,47			1.00	0.08	0.92
1902	0.0	0.02	0.0	0,47,0	2.68e-05	1.31e-03	5.69e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.91e-04	1.26e-03	0.0	47,47,0	2.64e-05	9.48e-04	1.03e-03	47,47,47			1.00	0.08	0.92
1903	0.0	0.02	0.0	0,47,0	2.68e-05	1.26e-03	5.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.84e-04	1.03e-03	0.0	47,47,0	2.64e-05	9.31e-04	1.03e-03	47,47,47			1.00	0.08	0.92
1904	0.0	0.01	0.0	0,47,0	8.89e-06	2.92e-04	3.57e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.84e-04	8.37e-04	0.0	47,47,0	8.85e-06	5.79e-04	3.11e-04	47,47,47			1.00	0.08	0.92
1905	0.0	0.02	0.0	0,47,0	3.39e-05	1.77e-03	7.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.56e-04	6.79e-04	0.0	47,47,0	3.35e-05	1.53e-03	1.67e-03	47,47,47			1.00	0.08	0.92
1906	0.0	0.02	0.0	0,47,0	4.90e-05	1.77e-03	7.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.20e-04	0.0	0,47,0	4.87e-05	1.53e-03	1.67e-03	47,47,47			0.0	0.0	0.0
1907	0.0	0.02	0.0	0,47,0	4.90e-05	1.77e-03	7.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.09e-04	9.28e-04	0.0	47,47,0	4.87e-05	1.40e-03	1.57e-03	47,47,47			1.00	0.08	0.92
1908	0.0	0.01	0.0	0,47,0	1.96e-05	3.75e-04	4.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.09e-04	9.28e-04	0.0	47,47,0	1.94e-05	5.17e-04	2.74e-04	47,47,47			1.00	0.08	0.92
2676	0.0	0.01	0.0	0,47,0	1.34e-05	1.31e-03	5.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.77e-04	0.0	0,47,0	1.30e-05	9.48e-04	9.92e-04	47,47,47			0.0	0.0	0.0
2677	0.0	0.01	0.0	0,47,0	2.68e-05	1.31e-03	5.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.43e-04	0.0	0,47,0	2.64e-05	9.48e-04	1.03e-03	47,47,47			0.0	0.0	0.0
2678	0.0	0.01	0.0	0,47,0	2.68e-05	1.26e-03	5.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.84e-04	4.43e-04	0.0	47,47,0	2.64e-05	9.31e-04	1.03e-03	47,47,47			1.00	0.08	0.92
2679	0.0	6.32e-03	0.0	0,47,0	8.89e-06	2.92e-04	2.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.84e-04	3.17e-04	0.0	47,47,0	8.85e-06	5.79e-04	1.63e-04	47,47,47			1.00	0.08	0.92
2680	0.0	0.02	0.0	0,47,0	3.39e-05	1.77e-03	7.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.56e-04	5.17e-04	0.0	47,47,0	3.35e-05	1.53e-03	1.67e-03	47,47,47			1.00	0.08	0.92
2681	0.0	0.02	0.0	0,47,0	4.90e-05	1.77e-03	7.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.15e-04	0.0	0,47,0	4.87e-05	1.53e-03	1.67e-03	47,47,47			0.0	0.0	0.0
2682	0.0	0.02	0.0	0,47,0	4.90e-05	1.77e-03	7.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.09e-04	7.15e-04	0.0	47,47,0	4.87e-05	1.40e-03	1.57e-03	47,47,47			1.00	0.08	0.92
2683	0.0	7.16e-03	0.0	0,47,0	1.96e-05	3.75e-04	2.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.09e-04	4.12e-04	0.0	47,47,0	1.94e-05	5.17e-04	1.32e-04	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	3.84e-04	0.04	0.0		4.90e-05	5.15e-03	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo cm	Incoll.	Stato
25	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
202	0.0	0.01	0.0	0,47,0	0.0	2.59e-05	4.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.70e-04	0.0	0,47,0	0.0	7.51e-05	2.59e-04	47,47,47			0.0	0.0	0.0
203	0.0	0.03	0.0	0,47,0	1.78e-06	2.59e-05	8.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.70e-04	0.0	0,47,0	1.70e-06	7.51e-05	2.59e-04	47,47,47			0.0	0.0	0.0
204	0.0	0.03	0.0	0,47,0	1.78e-06	9.32e-06	8.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.36e-04	0.0	0,47,0	1.70e-06	2.85e-05	8.27e-05	47,47,47			0.0	0.0	0.0
205	0.0	0.02	0.0	0,47,0	0.0	9.32e-06	4.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.40e-04	0.0	0,47,0	0.0	1.17e-05	7.82e-05	47,47,47			0.0	0.0	0.0
206	0.0	0.01	0.0	0,47,0	0.0	4.79e-06	3.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.52e-04	0.0	0,47,0	0.0	5.82e-06	7.29e-05	47,47,47			0.0	0.0	0.0
207	0.0	0.01	0.0	0,47,0	0.0	7.20e-06	4.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.90e-04	0.0	0,47,0	0.0	3.27e-06	8.35e-05	47,47,47			0.0	0.0	0.0
208	0.0	0.02	0.0	0,47,0	0.0	1.36e-05	5.92e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.67e-04	0.0	0,47,0	0.0	7.40e-06	1.06e-04	47,47,47			0.0	0.0	0.0
209	0.0	0.04	0.0	0,47,0	4.98e-06	3.63e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
26	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
144	0.0	0.02	0.0	0,47,0	0.0	5.30e-04	6.86e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.09e-04	0.0	0,47,0	0.0	1.69e-04	2.36e-04	47,47,47			0.0	0.0	0.0
145	0.0	0.03	0.0	0,47,0	1.66e-06	2.15e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.09e-04	0.0	0,47,0	1.05e-06	9.84e-04	1.01e-03	47,47,47			0.0	0.0	0.0
146	0.0	0.04	0.0	0,47,0	1.73e-06	2.46e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.95e-04	2.18e-04	0.0	47,47,0	1.05e-06	1.17e-03	1.05e-03	47,47,47			1.00	0.08	0.92
147	0.0	0.04	0.0	0,47,0	1.73e-06	2.46e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.95e-04	2.18e-04	0.0	47,47,0	0.0	1.17e-03	1.05e-03	47,47,47			1.00	0.08	0.92
148	0.0	0.07	0.0	0,47,0	2.72e-05	1.77e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.17e-04	0.0	0,47,0	2.47e-05	3.27e-04	4.09e-04	47,47,47			0.0	0.0	0.0
149	0.0	0.11	0.0	0,47,0	6.16e-05	6.36e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	4.38e-04	4.17e-04	0.0	47,47,0	5.11e-05	2.54e-03	2.39e-03	47,47,47			1.00	0.08	0.92
150	0.0	0.11	0.0	0,47,0	6.16e-05	6.36e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	4.38e-04	3.45e-04	0.0	47,47,0	5.11e-05	2.54e-03	2.39e-03	47,47,47			1.00	0.08	0.92
613	0.0	0.02	0.0	0,47,0	0.0	5.30e-04	6.86e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.79e-04	0.0	0,47,0	0.0	1.69e-04	3.09e-04	47,47,47			0.0	0.0	0.0
614	0.0	0.03	0.0	0,47,0	2.72e-06	2.15e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.45e-04	6.79e-04	0.0	47,47,0	2.46e-06	9.84e-04	1.01e-03	47,47,47			1.00	0.08	0.92
615	0.0	0.04	0.0	0,47,0	2.72e-06	2.46e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.23e-04	6.32e-04	0.0	47,47,0	2.46e-06	1.17e-03	1.05e-03	47,47,47			1.00	0.08	0.92
616	0.0	0.04	0.0	0,47,0	1.73e-06	2.46e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.23e-04	3.80e-04	0.0	47,47,0	0.0	1.17e-03	1.05e-03	47,47,47			1.00	0.08	0.92
617	0.0	0.07	0.0	0,47,0	2.72e-05	1.77e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.17e-04	0.0	0,47,0	2.47e-05	3.27e-04	4.09e-04	47,47,47			0.0	0.0	0.0
618	0.0	0.11	0.0	0,47,0	6.75e-05	6.36e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	8.16e-04	7.40e-04	0.0	47,47,0	6.33e-05	2.54e-03	2.39e-03	47,47,47			1.00	0.08	0.92
619	0.0	0.11	0.0	0,47,0	6.75e-05	6.36e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	8.16e-04	7.40e-04	0.0	47,47,0	6.33e-05	2.54e-03	2.39e-03	47,47,47			1.00	0.08	0.92
971	0.0	0.02	0.0	0,47,0	0.0	3.66e-04	6.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.55e-04	0.0	0,47,0	0.0	1.97e-04	4.38e-04	47,47,47			0.0	0.0	0.0
972	0.0	0.03	0.0	0,47,0	6.87e-06	9.60e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.45e-04	1.17e-03	0.0	47,47,0	6.59e-06	6.43e-04	7.51e-04	47,47,47			1.00	0.08	0.92
973	0.0	0.04	0.0	0,47,0	6.87e-06	1.08e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.23e-04	1.17e-03	0.0	47,47,0	6.59e-06	6.43e-04	7.51e-04	47,47,47			1.00	0.08	0.92
974	0.0	0.04	0.0	0,47,0	1.31e-06	1.08e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.23e-04	7.74e-04	0.0	47,47,0	0.0	5.31e-04	4.13e-04	47,47,47			1.00	0.08	0.92
975	0.0	0.07	0.0	0,47,0	1.21e-05	9.00e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.04e-04	0.0	0,47,0	1.11e-05	3.18e-04	3.91e-04	47,47,47			0.0	0.0	0.0
976	0.0	0.10	0.0	0,47,0	7.78e-05	2.92e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	8.16e-04	7.40e-04	0.0	47,47,0	7.46e-05	1.79e-03	1.57e-03	47,47,47			1.00	0.08	0.92
977	0.0	0.10	0.0	0,47,0	7.78e-05	2.92e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	8.16e-04	7.40e-04	0.0	47,47,0	7.46e-05	1.79e-03	1.57e-03	47,47,47			1.00	0.08	0.92
1385	0.0	0.02	0.0	0,47,0	0.0	1.93e-04	5.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.11e-04	0.0	0,47,0	0.0	2.23e-04	4.73e-04	47,47,47			0.0	0.0	0.0
1386	0.0	0.02	0.0	0,47,0	8.87e-06	9.13e-04	8.81e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.54e-03	0.0	0,47,0	8.57e-06	2.81e-04	6.15e-04	47,47,47			0.0	0.0	0.0
1387	0.0	0.03	0.0	0,47,0	8.87e-06	9.13e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.64e-03	0.0	0,47,0	8.57e-06	3.24e-04	6.83e-04	47,47,47			0.0	0.0	0.0
1388	0.0	0.03	0.0	0,47,0	2.58e-06	8.73e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.64e-03	0.0	0,47,0	2.54e-06	3.39e-04	7.38e-04	47,47,47			0.0	0.0	0.0
1389	0.0	0.05	0.0	0,47,0	1.83e-05	3.58e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.80e-04	1.62e-03	0.0	47,47,0	1.79e-05	1.02e-03	7.38e-04	47,47,47			1.00	0.08	0.92
1390	0.0	0.08	0.0	0,47,0	1.39e-04	1.83e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-03	1.23e-03	0.0	47,47,0	1.38e-04	3.84e-03	1.29e-03	47,47,47			1.00	0.08	0.92
1391	0.0	0.08	0.0	0,47,0	1.39e-04	1.83e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-03	1.23e-03	0.0	47,47,0	1.38e-04	3.84e-03	1.29e-03	47,47,47			1.00	0.08	0.92
1908	0.0	0.01	0.0	0,47,0	1.21e-06	1.49e-04	3.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.58e-04	9.11e-04	0.0	47,47,0	1.14e-06	2.86e-04	4.73e-04	47,47,47			1.00	0.08	0.92
1909	0.0	0.02	0.0	0,47,0	1.99e-05	9.13e-04	7.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.58e-04	1.54e-03	0.0	47,47,0	1.97e-05	8.78e-04	1.00e-03	47,47,47			1.00	0.08	0.92
1910	0.0	0.02	0.0	0,47,0	1.99e-05	9.13e-04	8.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.74e-04	1.64e-03	0.0	47,47,0	1.97e-05	1.10e-03	1.21e-03	47,47,47			1.00	0.08	0.92
1911	0.0	0.02	0.0	0,47,0	6.72e-06	8.73e-04	8.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.74e-04	1.64e-03	0.0	47,47,0	6.69e-06	1.10e-03	1.21e-03	47,47,47			1.00	0.08	0.92
1912	0.0	0.03	0.0	0,47,0	6.91e-05	3.58e-04	1.00e-02	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

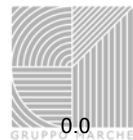


1913	5.80e-04	1.62e-03	0.0	47,47,0	6.90e-05	1.02e-03	7.38e-04	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.05	0.0	0,47,0	1.81e-04	1.52e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-03	1.23e-03	0.0	47,47,0	1.79e-04	3.84e-03	9.79e-04	47,47,47	0.0	0	1.00	0.08	0.92
1914	0.0	0.05	0.0	0,47,0	1.81e-04	1.52e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-03	1.23e-03	0.0	47,47,0	1.79e-04	3.84e-03	9.79e-04	47,47,47	0.0	0	1.00	0.08	0.92
2683	0.0	6.05e-03	0.0	0,47,0	1.21e-06	1.49e-04	2.06e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.58e-04	2.89e-04	0.0	47,47,0	1.14e-06	2.86e-04	2.60e-04	47,47,47	0.0	0	1.00	0.08	0.92
2684	0.0	0.01	0.0	0,47,0	1.99e-05	3.32e-04	4.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.58e-04	6.68e-04	0.0	47,47,0	1.97e-05	8.78e-04	1.00e-03	47,47,47	0.0	0	1.00	0.08	0.92
2685	0.0	0.01	0.0	0,47,0	1.99e-05	3.67e-04	4.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.74e-04	6.68e-04	0.0	47,47,0	1.97e-05	1.10e-03	1.21e-03	47,47,47	0.0	0	1.00	0.08	0.92
2686	0.0	0.01	0.0	0,47,0	6.72e-06	3.67e-04	4.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.74e-04	6.51e-04	0.0	47,47,0	6.69e-06	1.10e-03	1.21e-03	47,47,47	0.0	0	1.00	0.08	0.92
2687	0.0	0.02	0.0	0,47,0	6.91e-05	1.02e-04	5.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.53e-04	3.50e-04	0.0	47,47,0	6.90e-05	3.92e-04	2.11e-04	47,47,47	0.0	0	1.00	0.08	0.92
2688	0.0	0.03	0.0	0,47,0	1.81e-04	1.52e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.79e-04	1.22e-03	0.0	47,47,0	1.79e-04	6.80e-04	4.42e-04	47,47,47	0.0	0	1.00	0.08	0.92
2689	0.0	0.03	0.0	0,47,0	1.81e-04	1.52e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.79e-04	1.22e-03	0.0	47,47,0	1.79e-04	6.80e-04	4.42e-04	47,47,47	0.0	0	1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	2.63e-03	0.11	0.0		1.81e-04	6.36e-03	0.04		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
27	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
212	0.0	0.05	0.0	0,47,0	0.0	1.06e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.54e-03	0.0	0,47,0	0.0	1.15e-04	5.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
213	0.0	0.05	0.0	0,47,0	0.0	1.06e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.54e-03	0.0	0,47,0	0.0	1.15e-04	5.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
214	0.0	0.03	0.0	0,47,0	0.0	1.45e-05	8.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-04	0.0	0,47,0	0.0	1.10e-05	3.94e-05	47,47,47	0.0	0	0.0	0.0	0.0
215	0.0	0.03	0.0	0,47,0	0.0	2.23e-05	8.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.89e-04	0.0	0,47,0	0.0	1.55e-05	6.80e-05	47,47,47	0.0	0	0.0	0.0	0.0
216	0.0	0.03	0.0	0,47,0	1.72e-06	3.05e-05	7.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.46e-04	0.0	0,47,0	1.67e-06	2.42e-05	9.24e-05	47,47,47	0.0	0	0.0	0.0	0.0
217	0.0	0.04	0.0	0,47,0	4.96e-06	3.05e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.46e-04	0.0	0,47,0	4.82e-06	4.41e-05	1.02e-04	47,47,47	0.0	0	0.0	0.0	0.0
218	0.0	0.04	0.0	0,47,0	4.96e-06	5.55e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.13e-04	0.0	0,47,0	4.82e-06	1.12e-04	3.33e-04	47,47,47	0.0	0	0.0	0.0	0.0
219	0.0	0.02	0.0	0,47,0	2.47e-06	5.55e-05	6.08e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.13e-04	0.0	0,47,0	2.43e-06	1.12e-04	3.33e-04	47,47,47	0.0	0	0.0	0.0	0.0
680	0.0	0.05	0.0	0,47,0	1.04e-06	5.32e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.54e-03	0.0	0,47,0	0.0	1.15e-04	5.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
681	0.0	0.05	0.0	0,47,0	1.04e-06	5.32e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.54e-03	0.0	0,47,0	0.0	1.15e-04	5.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
682	0.0	0.03	0.0	0,47,0	0.0	1.45e-05	8.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.71e-04	0.0	0,47,0	0.0	1.10e-05	5.15e-05	47,47,47	0.0	0	0.0	0.0	0.0
683	0.0	0.03	0.0	0,47,0	0.0	2.23e-05	8.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.91e-04	0.0	0,47,0	0.0	1.55e-05	1.12e-04	47,47,47	0.0	0	0.0	0.0	0.0
684	0.0	0.03	0.0	0,47,0	1.72e-06	3.05e-05	7.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.45e-04	0.0	0,47,0	1.67e-06	2.80e-05	1.53e-04	47,47,47	0.0	0	0.0	0.0	0.0
685	0.0	0.04	0.0	0,47,0	7.90e-06	3.05e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.45e-04	0.0	0,47,0	7.81e-06	4.41e-05	1.53e-04	47,47,47	0.0	0	0.0	0.0	0.0
686	0.0	0.04	0.0	0,47,0	7.90e-06	5.55e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.13e-04	0.0	0,47,0	7.81e-06	1.12e-04	3.33e-04	47,47,47	0.0	0	0.0	0.0	0.0
687	0.0	0.03	0.0	0,47,0	3.63e-06	5.55e-05	9.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.13e-04	0.0	0,47,0	3.53e-06	1.12e-04	3.33e-04	47,47,47	0.0	0	0.0	0.0	0.0
1036	0.0	0.05	0.0	0,47,0	1.40e-06	7.18e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.33e-04	0.0	0,47,0	0.0	3.83e-05	7.23e-05	47,47,47	0.0	0	0.0	0.0	0.0
1037	0.0	0.05	0.0	0,47,0	1.40e-06	7.18e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.33e-04	0.0	0,47,0	0.0	3.83e-05	7.23e-05	47,47,47	0.0	0	0.0	0.0	0.0
1038	0.0	0.03	0.0	0,47,0	4.45e-06	1.09e-05	7.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.36e-04	0.0	0,47,0	4.39e-06	3.33e-05	2.91e-04	47,47,47	0.0	0	0.0	0.0	0.0
1039	0.0	0.03	0.0	0,47,0	4.45e-06	1.41e-05	7.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.27e-03	0.0	0,47,0	4.39e-06	3.33e-05	3.63e-04	47,47,47	0.0	0	0.0	0.0	0.0
1040	0.0	0.02	0.0	0,47,0	2.28e-06	1.73e-05	6.91e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO

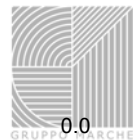


3121	0.0	0.01	0.0	0,47,0	4.94e-05	7.76e-05	4.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.01e-03	0.0	0.0	47,0,0	4.92e-05	2.49e-03	2.78e-04	47,47,47			1.00	0.08	0.92
3122	0.0	0.01	0.0	0,47,0	4.94e-05	7.76e-05	4.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.17e-03	0.0	0.0	47,0,0	4.92e-05	1.49e-03	2.78e-04	47,47,47			1.00	0.08	0.92
3172	0.0	9.62e-03	0.0	0,47,0	1.11e-04	2.08e-04	3.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.35e-04	0.0	0,47,0	1.11e-04	3.59e-04	4.62e-04	47,47,47			0.0	0.0	0.0
3173	0.0	9.62e-03	0.0	0,47,0	1.11e-04	2.08e-04	3.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.05e-03	5.35e-04	0.0	47,47,0	1.11e-04	1.36e-03	4.62e-04	47,47,47			1.00	0.08	0.92
3174	0.0	1.14e-03	0.0	0,47,0	4.47e-05	6.12e-05	4.10e-04	47,47,47	0.0	0	0.0	0.0	0.0
	1.22e-03	0.0	0.0	47,0,0	4.46e-05	1.47e-03	2.73e-04	47,47,47			1.00	0.08	0.92
3175	0.0	7.92e-04	0.0	0,47,0	3.96e-05	2.58e-05	2.60e-04	47,47,47	0.0	0	0.0	0.0	0.0
	1.70e-03	0.0	0.0	47,0,0	3.95e-05	2.07e-03	6.29e-05	47,47,47			1.00	0.08	0.92
3176	0.0	1.19e-03	0.0	0,47,0	2.74e-05	1.93e-05	3.71e-04	47,47,47	0.0	0	0.0	0.0	0.0
	1.70e-03	0.0	0.0	47,0,0	2.74e-05	2.07e-03	8.66e-05	47,47,47			1.00	0.08	0.92
3177	0.0	1.19e-03	0.0	0,47,0	1.11e-05	1.09e-05	3.71e-04	47,47,47	0.0	0	0.0	0.0	0.0
	1.56e-03	0.0	0.0	47,0,0	1.10e-05	1.86e-03	8.66e-05	47,47,47			1.00	0.08	0.92
3178	0.0	1.61e-03	0.0	0,47,0	1.80e-06	5.26e-05	5.41e-04	47,47,47	0.0	0	0.0	0.0	0.0
	2.01e-03	0.0	0.0	47,0,0	1.78e-06	2.49e-03	1.75e-04	47,47,47			1.00	0.08	0.92
3179	0.0	5.72e-03	0.0	0,47,0	4.45e-05	7.76e-05	1.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.01e-03	0.0	0.0	47,0,0	4.45e-05	2.49e-03	2.78e-04	47,47,47			1.00	0.08	0.92
3180	0.0	5.72e-03	0.0	0,47,0	4.45e-05	7.76e-05	1.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.17e-03	0.0	0.0	47,0,0	4.45e-05	1.49e-03	2.78e-04	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	2.01e-03	0.05	0.0		1.11e-04	2.49e-03	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
28	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	5.8	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1392	0.0	9.99e-03	0.0	0,47,0	4.61e-05	5.58e-05	6.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.65e-03	0.0	0.0	47,0,0	3.60e-05	5.07e-03	4.10e-04	47,47,47			1.00	0.07	0.93
1393	6.68e-04	9.99e-03	0.0	47,47,0	4.61e-05	3.89e-03	6.20e-03	47,47,47	0.0	0	1.00	0.59	0.41
	5.63e-03	0.0	0.0	47,0,0	3.60e-05	6.62e-03	8.62e-04	47,47,47			1.00	0.07	0.93
1394	6.68e-04	4.03e-03	0.0	47,47,0	1.00e-05	9.89e-03	3.36e-03	47,47,47	0.0	0	1.00	0.59	0.41
	8.64e-03	0.0	0.0	47,0,0	5.94e-06	8.59e-03	1.18e-03	47,47,47			1.00	0.07	0.93
1395	0.0	0.02	0.0	0,47,0	1.22e-05	0.01	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	2.17e-03	0.0	47,47,0	6.83e-06	0.01	2.65e-03	47,47,47			1.00	0.07	0.93
1396	0.0	0.03	0.0	0,47,0	1.22e-05	0.01	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	3.64e-03	0.0	47,47,0	9.33e-06	0.01	5.14e-03	47,47,47			1.00	0.07	0.93
1397	0.0	0.03	0.0	0,47,0	1.17e-04	2.02e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	3.64e-03	0.0	47,47,0	9.42e-05	0.01	5.14e-03	47,47,47			1.00	0.07	0.93
1398	0.0	0.02	0.0	0,47,0	1.17e-04	2.02e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-03	0.0	0.0	47,0,0	9.42e-05	6.10e-03	3.88e-03	47,47,47			1.00	0.07	0.93
1915	0.0	9.99e-03	0.0	0,47,0	4.61e-05	5.58e-05	6.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.65e-03	0.0	0.0	47,0,0	3.60e-05	5.07e-03	6.77e-04	47,47,47			1.00	0.07	0.93
1916	6.68e-04	9.99e-03	0.0	47,47,0	4.61e-05	3.89e-03	6.20e-03	47,47,47	0.0	0	1.00	0.59	0.41
	5.63e-03	2.86e-04	0.0	47,47,0	3.60e-05	6.62e-03	8.62e-04	47,47,47			1.00	0.07	0.93
1917	6.68e-04	4.20e-03	0.0	47,47,0	1.16e-05	0.01	3.52e-03	47,47,47	0.0	0	1.00	0.59	0.41
	8.64e-03	1.23e-03	0.0	47,47,0	6.27e-06	8.59e-03	1.18e-03	47,47,47			1.00	0.07	0.93
1918	0.0	0.02	0.0	0,47,0	1.22e-05	0.01	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	2.73e-03	0.0	47,47,0	6.83e-06	0.01	2.65e-03	47,47,47			1.00	0.07	0.93
1919	0.0	0.03	0.0	0,47,0	1.04e-04	0.01	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	3.64e-03	0.0	47,47,0	7.88e-05	0.01	5.14e-03	47,47,47			1.00	0.07	0.93
1920	0.0	0.03	0.0	0,47,0	2.35e-04	2.02e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	3.64e-03	0.0	47,47,0	1.81e-04	0.01	5.14e-03	47,47,47			1.00	0.07	0.93
1921	0.0	0.02	0.0	0,47,0	2.35e-04	2.02e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-03	0.0	0.0	47,0,0	1.81e-04	6.10e-03	3.88e-03	47,47,47			1.00	0.07	0.93
2690	0.0	9.88e-03	0.0	0,47,0	3.61e-06	2.95e-05	5.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.36e-04	0.0	0.0	47,0,0	0.0	1.39e-03	6.77e-04	47,47,47			1.00	0.07	0.93
2691	0.0	9.88e-03	0.0	0,47,0	1.16e-05	3.37e-03	5.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.36e-04	2.86e-04	0.0	47,47,0	6.27e-06	1.39e-03	6.77e-04	47,47,47			1.00	0.07	0.93
2692	0.0	4.20e-03	0.0	0,47,0	1.16e-05	0.01	3.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.09e-03	1.23e-03	0.0	47,47,0	6.27e-06	1.06e-03	9.24e-04	47,47,47			1.00	0.07	0.93
2693	0.0	0.01	0.0	0,47,0	2.64e-06	0.01	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.15e-03	2.73e-03	0.0	47,47,0	0.0	2.64e-03	1.67e-03	47,47,47			1.00	0.07	0.93
2694	0.0	0.03	0.0	0,47,0	1.04e-04	7.16e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	3.31e-03	2.73e-03	0.0	47,47,0	7.88e-05	5.84e-03	4.17e-03	47,47,47			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2695	0.0	0.03	0.0	0,47,0	2.35e-04	3.94e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	3.31e-03	1.93e-03	0.0	47,47,0	1.81e-04	5.84e-03	4.17e-03	47,47,47			1.00	0.07	0.93
2696	0.0	0.01	0.0	0,47,0	2.35e-04	1.03e-05	8.57e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.28e-04	0.0	0.0	47,0,0	1.81e-04	2.86e-03	2.64e-03	47,47,47			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	0.03	0.0		2.35e-04	0.01	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
31	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
362	0.0	0.02	0.0	0,47,0	0.0	5.13e-04	7.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.69e-04	0.0	0,47,0	0.0	5.21e-04	5.84e-04	47,47,47			0.0	0.0	0.0
363	0.0	0.02	0.0	0,47,0	1.04e-06	5.13e-04	7.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.38e-04	2.69e-04	0.0	47,47,0	0.0	9.13e-04	5.84e-04	47,47,47			1.00	0.07	0.93
364	0.0	0.02	0.0	0,47,0	2.48e-06	1.68e-04	5.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.38e-04	0.0	0.0	47,0,0	2.07e-06	9.13e-04	3.15e-04	47,47,47			1.00	0.07	0.93
365	0.0	0.02	0.0	0,47,0	2.48e-06	1.68e-04	5.85e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.15e-04	0.0	0.0	47,0,0	2.07e-06	4.34e-04	3.15e-04	47,47,47			1.00	0.07	0.93
462	0.0	0.02	0.0	0,47,0	2.32e-06	5.13e-04	7.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.69e-04	0.0	0,47,0	1.79e-06	5.21e-04	5.84e-04	47,47,47			0.0	0.0	0.0
463	0.0	0.02	0.0	0,47,0	8.86e-06	5.13e-04	7.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.38e-04	2.69e-04	0.0	47,47,0	7.72e-06	9.13e-04	5.84e-04	47,47,47			1.00	0.07	0.93
464	0.0	0.02	0.0	0,47,0	8.86e-06	5.38e-04	5.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.38e-04	9.57e-05	0.0	47,47,0	7.72e-06	9.13e-04	3.15e-04	47,47,47			1.00	0.07	0.93
465	0.0	0.02	0.0	0,47,0	2.48e-06	5.38e-04	5.85e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.15e-04	9.57e-05	0.0	47,47,0	2.07e-06	4.34e-04	3.15e-04	47,47,47			1.00	0.07	0.93
1181	0.0	0.02	0.0	0,47,0	2.32e-06	3.96e-04	6.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.31e-04	0.0	0,47,0	1.79e-06	7.90e-05	1.30e-04	47,47,47			0.0	0.0	0.0
1182	0.0	0.02	0.0	0,47,0	8.86e-06	3.96e-04	6.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.48e-04	2.31e-04	0.0	47,47,0	7.72e-06	4.42e-04	2.78e-04	47,47,47			1.00	0.07	0.93
1183	0.0	0.02	0.0	0,47,0	8.86e-06	5.38e-04	6.24e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.48e-04	4.26e-04	0.0	47,47,0	7.72e-06	4.42e-04	2.78e-04	47,47,47			1.00	0.07	0.93
1184	0.0	0.02	0.0	0,47,0	2.00e-06	5.38e-04	6.24e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.26e-04	0.0	0,47,0	1.72e-06	1.11e-04	2.19e-04	47,47,47			0.0	0.0	0.0
1637	0.0	0.01	0.0	0,47,0	2.04e-06	1.94e-03	6.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	1.48e-06	7.90e-05	6.59e-04	47,47,47			0.0	0.0	0.0
1638	0.0	0.01	0.0	0,47,0	6.64e-06	1.94e-03	6.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.76e-03	0.0	0,47,0	5.99e-06	6.37e-04	1.37e-03	47,47,47			0.0	0.0	0.0
1639	0.0	0.03	0.0	0,47,0	3.40e-05	9.59e-04	9.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.21e-03	0.0	0,47,0	3.22e-05	6.37e-04	1.37e-03	47,47,47			0.0	0.0	0.0
1640	0.0	0.03	0.0	0,47,0	3.40e-05	3.64e-04	9.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.21e-03	0.0	0,47,0	3.22e-05	3.54e-04	1.20e-03	47,47,47			0.0	0.0	0.0
2227	0.0	0.01	0.0	0,47,0	6.95e-06	4.39e-03	7.08e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.07e-03	0.0	0,47,0	5.13e-06	4.56e-05	2.36e-03	47,47,47			0.0	0.0	0.0
2228	0.0	0.01	0.0	0,47,0	1.17e-04	4.39e-03	7.08e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.07e-03	0.0	0,47,0	1.05e-04	3.81e-03	5.42e-03	47,47,47			0.0	0.0	0.0
2229	0.0	0.03	0.0	0,47,0	1.17e-04	1.83e-03	9.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.55e-03	0.0	0,47,0	1.05e-04	3.81e-03	5.42e-03	47,47,47			0.0	0.0	0.0
2230	0.0	0.03	0.0	0,47,0	3.40e-05	6.48e-04	9.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.55e-03	0.0	0,47,0	3.22e-05	2.37e-03	4.18e-03	47,47,47			0.0	0.0	0.0
2519	0.0	6.90e-03	0.0	0,47,0	6.95e-06	4.39e-03	7.08e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.07e-03	0.0	0,47,0	5.13e-06	4.56e-05	2.36e-03	47,47,47			0.0	0.0	0.0
2520	0.0	8.48e-03	0.0	0,47,0	1.17e-04	4.39e-03	7.08e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.07e-03	0.0	0,47,0	1.05e-04	3.81e-03	5.42e-03	47,47,47			0.0	0.0	0.0
2521	0.0	0.02	0.0	0,47,0	1.17e-04	1.83e-03	6.07e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.55e-03	0.0	0,47,0	1.05e-04	3.81e-03	5.42e-03	47,47,47			0.0	0.0	0.0
2522	0.0	0.02	0.0	0,47,0	2.05e-05	6.48e-04	6.07e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.55e-03	0.0	0,47,0	1.66e-05	2.37e-03	4.18e-03	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	6.38e-04	0.03	0.0		1.17e-04	4.39e-03	9.30e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



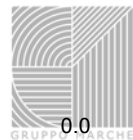
Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
32	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
366	0.0	0.02	0.0	0,47,0	2.24e-06	2.54e-04	5.86e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.04e-04	0.0	0.0	47,0,0	1.84e-06	3.42e-04	2.38e-04	47,47,47			1.00	0.07	0.93
367	0.0	0.02	0.0	0,47,0	2.24e-06	2.54e-04	5.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.29e-04	0.0	0.0	47,0,0	1.84e-06	8.97e-04	2.38e-04	47,47,47			1.00	0.07	0.93
368	0.0	0.02	0.0	0,47,0	1.07e-06	5.05e-04	7.13e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.29e-04	2.70e-04	0.0	47,47,0	0.0	8.97e-04	5.76e-04	47,47,47			1.00	0.07	0.93
369	0.0	0.02	0.0	0,47,0	0.0	5.05e-04	7.13e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.70e-04	0.0	0,47,0	0.0	5.12e-04	5.76e-04	47,47,47			0.0	0.0	0.0
466	0.0	0.02	0.0	0,47,0	2.24e-06	3.85e-04	5.86e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.04e-04	1.01e-04	0.0	47,47,0	1.84e-06	3.42e-04	2.38e-04	47,47,47			1.00	0.07	0.93
467	0.0	0.02	0.0	0,47,0	8.86e-06	3.85e-04	5.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.29e-04	1.01e-04	0.0	47,47,0	7.73e-06	8.97e-04	2.38e-04	47,47,47			1.00	0.07	0.93
468	0.0	0.02	0.0	0,47,0	8.86e-06	5.05e-04	7.13e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.29e-04	2.70e-04	0.0	47,47,0	7.73e-06	8.97e-04	5.76e-04	47,47,47			1.00	0.07	0.93
469	0.0	0.02	0.0	0,47,0	2.30e-06	5.05e-04	7.13e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.70e-04	0.0	0,47,0	1.78e-06	5.12e-04	5.76e-04	47,47,47			0.0	0.0	0.0
1185	0.0	0.02	0.0	0,47,0	2.21e-06	3.85e-04	6.24e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.30e-04	0.0	0,47,0	1.90e-06	8.21e-05	1.91e-04	47,47,47			0.0	0.0	0.0
1186	0.0	0.02	0.0	0,47,0	8.86e-06	3.85e-04	6.24e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.39e-04	4.30e-04	0.0	47,47,0	7.73e-06	4.32e-04	2.88e-04	47,47,47			1.00	0.07	0.93
1187	0.0	0.02	0.0	0,47,0	8.86e-06	3.95e-04	5.92e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.39e-04	2.30e-04	0.0	47,47,0	7.73e-06	4.32e-04	2.88e-04	47,47,47			1.00	0.07	0.93
1188	0.0	0.02	0.0	0,47,0	2.30e-06	3.95e-04	5.92e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.30e-04	0.0	0,47,0	1.78e-06	7.89e-05	1.30e-04	47,47,47			0.0	0.0	0.0
1641	0.0	0.03	0.0	0,47,0	3.58e-05	2.77e-04	9.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.27e-03	0.0	0,47,0	3.39e-05	2.84e-04	1.14e-03	47,47,47			0.0	0.0	0.0
1642	0.0	0.03	0.0	0,47,0	3.58e-05	1.01e-03	9.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.27e-03	0.0	0,47,0	3.39e-05	6.76e-04	1.40e-03	47,47,47			0.0	0.0	0.0
1643	0.0	0.01	0.0	0,47,0	6.58e-06	1.95e-03	6.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.73e-03	0.0	0,47,0	5.93e-06	6.76e-04	1.40e-03	47,47,47			0.0	0.0	0.0
1644	0.0	0.01	0.0	0,47,0	1.84e-06	1.95e-03	6.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	1.42e-06	7.89e-05	6.58e-04	47,47,47			0.0	0.0	0.0
2239	0.0	0.03	0.0	0,47,0	3.58e-05	6.25e-04	9.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.73e-03	0.0	0,47,0	3.39e-05	2.18e-03	4.04e-03	47,47,47			0.0	0.0	0.0
2240	0.0	0.03	0.0	0,47,0	1.16e-04	1.93e-03	9.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.73e-03	0.0	0,47,0	1.05e-04	3.80e-03	5.40e-03	47,47,47			0.0	0.0	0.0
2241	0.0	0.01	0.0	0,47,0	1.16e-04	4.41e-03	7.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.09e-03	0.0	0,47,0	1.05e-04	3.80e-03	5.40e-03	47,47,47			0.0	0.0	0.0
2242	0.0	0.01	0.0	0,47,0	6.00e-06	4.41e-03	7.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.09e-03	0.0	0,47,0	4.43e-06	1.95e-04	2.37e-03	47,47,47			0.0	0.0	0.0
2531	0.0	0.01	0.0	0,47,0	1.47e-05	6.25e-04	5.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.73e-03	0.0	0,47,0	1.13e-05	2.18e-03	4.04e-03	47,47,47			0.0	0.0	0.0
2532	0.0	0.01	0.0	0,47,0	1.16e-04	1.93e-03	5.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.73e-03	0.0	0,47,0	1.05e-04	3.80e-03	5.40e-03	47,47,47			0.0	0.0	0.0
2533	0.0	8.39e-03	0.0	0,47,0	1.16e-04	4.41e-03	7.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.09e-03	0.0	0,47,0	1.05e-04	3.80e-03	5.40e-03	47,47,47			0.0	0.0	0.0
2534	0.0	6.94e-03	0.0	0,47,0	6.00e-06	4.41e-03	7.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.09e-03	0.0	0,47,0	4.43e-06	1.95e-04	2.37e-03	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	6.29e-04	0.03	0.0		1.16e-04	4.41e-03	9.09e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
34	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
372	0.0	0.02	0.0	0,47,0	0.0	2.80e-06	5.01e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.44e-04	0.0	0,47,0	0.0	2.42e-05	2.63e-04	47,47,47			0.0	0.0	0.0
373	0.0	0.02	0.0	0,47,0	0.0	2.80e-06	5.01e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



374	0.0	8.44e-04	0.0	0,47,0	0.0	2.42e-05	2.63e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.43e-03	0.0	0,47,0	0.0	1.54e-05	1.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.11e-04	0.0	0,47,0	0.0	1.45e-05	1.87e-04	47,47,47	0.0	0	0.0	0.0	0.0
375	0.0	4.43e-03	0.0	0,47,0	0.0	1.54e-05	1.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.11e-04	0.0	0,47,0	0.0	1.45e-05	1.87e-04	47,47,47	0.0	0	0.0	0.0	0.0
791	0.0	0.02	0.0	0,47,0	0.0	4.18e-05	5.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.44e-04	0.0	0,47,0	0.0	2.42e-05	2.63e-04	47,47,47	0.0	0	0.0	0.0	0.0
792	0.0	0.02	0.0	0,47,0	0.0	4.18e-05	5.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.44e-04	0.0	0,47,0	0.0	2.42e-05	2.63e-04	47,47,47	0.0	0	0.0	0.0	0.0
793	0.0	5.46e-03	0.0	0,47,0	0.0	1.54e-05	1.89e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.11e-04	0.0	0,47,0	0.0	1.45e-05	1.87e-04	47,47,47	0.0	0	0.0	0.0	0.0
794	0.0	5.46e-03	0.0	0,47,0	0.0	1.54e-05	1.89e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.11e-04	0.0	0,47,0	0.0	1.45e-05	1.87e-04	47,47,47	0.0	0	0.0	0.0	0.0
1191	0.0	0.02	0.0	0,47,0	0.0	8.09e-05	6.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.37e-06	1.78e-04	0.0	47,47,0	0.0	7.72e-05	6.89e-05	47,47,47	0.0	0	1.00	0.07	0.93
1192	0.0	0.02	0.0	0,47,0	0.0	8.09e-05	6.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.37e-06	1.78e-04	0.0	47,47,0	0.0	7.72e-05	6.89e-05	47,47,47	0.0	0	1.00	0.07	0.93
1193	0.0	6.37e-03	0.0	0,47,0	0.0	5.32e-06	2.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.91e-04	0.0	0,47,0	0.0	5.06e-06	5.70e-05	47,47,47	0.0	0	0.0	0.0	0.0
1194	0.0	6.37e-03	0.0	0,47,0	0.0	5.32e-06	2.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.91e-04	0.0	0,47,0	0.0	5.06e-06	5.70e-05	47,47,47	0.0	0	0.0	0.0	0.0
1647	0.0	0.02	0.0	0,47,0	0.0	8.09e-05	6.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.37e-06	2.55e-04	0.0	47,47,0	0.0	3.69e-04	4.39e-04	47,47,47	0.0	0	1.00	0.07	0.93
1648	0.0	0.02	0.0	0,47,0	0.0	8.09e-05	6.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.37e-06	2.55e-04	0.0	47,47,0	0.0	3.69e-04	4.39e-04	47,47,47	0.0	0	1.00	0.07	0.93
1649	0.0	6.37e-03	0.0	0,47,0	0.0	4.82e-06	2.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.04e-04	0.0	0,47,0	0.0	1.24e-05	1.52e-04	47,47,47	0.0	0	0.0	0.0	0.0
1650	0.0	6.37e-03	0.0	0,47,0	0.0	4.82e-06	2.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.04e-04	0.0	0,47,0	0.0	1.24e-05	1.52e-04	47,47,47	0.0	0	0.0	0.0	0.0
2251	0.0	0.02	0.0	0,47,0	0.0	7.74e-05	5.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.55e-04	0.0	0,47,0	0.0	3.69e-04	4.39e-04	47,47,47	0.0	0	0.0	0.0	0.0
2252	0.0	0.02	0.0	0,47,0	0.0	7.74e-05	5.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.55e-04	0.0	0,47,0	0.0	3.69e-04	4.39e-04	47,47,47	0.0	0	0.0	0.0	0.0
2259	0.0	5.24e-03	0.0	0,47,0	1.07e-05	5.24e-05	1.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	1.06e-05	9.72e-05	4.01e-04	47,47,47	0.0	0	0.0	0.0	0.0
2260	0.0	5.24e-03	0.0	0,47,0	1.07e-05	5.24e-05	1.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	1.06e-05	9.72e-05	4.01e-04	47,47,47	0.0	0	0.0	0.0	0.0
2551	0.0	3.49e-03	0.0	0,47,0	1.07e-05	5.24e-05	1.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	1.06e-05	9.72e-05	4.01e-04	47,47,47	0.0	0	0.0	0.0	0.0
2552	0.0	3.49e-03	0.0	0,47,0	1.07e-05	5.24e-05	1.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	1.06e-05	9.72e-05	4.01e-04	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	7.37e-06	0.02	0.0		1.07e-05	3.69e-04	6.17e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
35	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
356	0.0	4.16e-03	0.0	0,47,0	0.0	1.26e-05	1.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.00e-04	0.0	0,47,0	0.0	1.07e-05	1.80e-04	47,47,47	0.0	0	0.0	0.0	0.0
357	0.0	4.16e-03	0.0	0,47,0	0.0	1.26e-05	1.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.00e-04	0.0	0,47,0	0.0	1.07e-05	1.80e-04	47,47,47	0.0	0	0.0	0.0	0.0
783	0.0	5.02e-03	0.0	0,47,0	0.0	1.26e-05	1.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.00e-04	0.0	0,47,0	0.0	1.07e-05	1.80e-04	47,47,47	0.0	0	0.0	0.0	0.0
784	0.0	5.02e-03	0.0	0,47,0	0.0	1.26e-05	1.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.00e-04	0.0	0,47,0	0.0	1.07e-05	1.80e-04	47,47,47	0.0	0	0.0	0.0	0.0
1175	0.0	5.02e-03	0.0	0,47,0	0.0	2.94e-06	1.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.14e-04	0.0	0,47,0	0.0	4.19e-06	6.30e-05	47,47,47	0.0	0	0.0	0.0	0.0
1176	0.0	5.02e-03	0.0	0,47,0	0.0	2.94e-06	1.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.14e-04	0.0	0,47,0	0.0	4.19e-06	6.30e-05	47,47,47	0.0	0	0.0	0.0	0.0
1631	0.0	5.02e-03	0.0	0,47,0	0.0	4.04e-06	1.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.29e-04	0.0	0,47,0	0.0	1.10e-05	1.57e-04	47,47,47	0.0	0	0.0	0.0	0.0
1632	0.0	5.02e-03	0.0	0,47,0	0.0	4.04e-06	1.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.29e-04	0.0	0,47,0	0.0	1.10e-05	1.57e-04	47,47,47	0.0	0	0.0	0.0	0.0
2209	0.0	4.63e-03	0.0	0,47,0	8.53e-06	3.88e-05	1.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-03	0.0	0,47,0	8.49e-06	8.11e-05	3.68e-04	47,47,47	0.0	0	0.0	0.0	0.0
2210	0.0	4.63e-03	0.0	0,47,0	8.53e-06	3.88e-05	1.61e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



	0.0	1.08e-03	0.0	0,47,0	8.49e-06	8.11e-05	3.68e-04	47,47,47			0.0	0.0	0.0
2501	0.0	3.12e-03	0.0	0,47,0	8.53e-06	3.88e-05	1.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-03	0.0	0,47,0	8.49e-06	8.11e-05	3.68e-04	47,47,47			0.0	0.0	0.0
2502	0.0	3.12e-03	0.0	0,47,0	8.53e-06	3.88e-05	1.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-03	0.0	0,47,0	8.49e-06	8.11e-05	3.68e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.0	5.02e-03	0.0		8.53e-06	8.11e-05	1.74e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
36	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1531	0.0	6.80e-03	0.0	0,47,0	8.72e-05	2.16e-04	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.34e-03	4.85e-03	0.0	47,47,0	8.62e-05	8.39e-03	1.59e-03	47,47,47			1.00	0.08	0.92
1532	6.64e-04	6.80e-03	0.0	47,47,0	8.72e-05	8.44e-04	2.56e-03	47,47,47	0.0	0	0.96	0.09	0.91
	5.34e-03	4.85e-03	0.0	47,47,0	8.62e-05	8.39e-03	1.74e-03	47,47,47			1.00	0.08	0.92
1533	6.64e-04	8.30e-04	0.0	47,47,0	4.53e-05	8.44e-04	4.72e-04	47,47,47	0.0	0	0.96	0.09	0.91
	5.20e-03	5.96e-04	0.0	47,47,0	4.42e-05	6.76e-03	1.85e-03	47,47,47			1.00	0.08	0.92
1534	6.24e-04	3.75e-03	0.0	47,47,0	3.24e-05	7.27e-04	1.55e-03	47,47,47	0.0	0	0.96	0.09	0.91
	0.01	0.0	0.0	47,0,0	3.16e-05	0.01	2.06e-03	47,47,47			1.00	0.08	0.92
1535	0.0	0.01	0.0	0,47,0	1.10e-05	1.35e-03	6.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	3.40e-03	0.0	47,47,0	1.08e-05	0.02	3.28e-03	47,47,47			1.00	0.08	0.92
1536	0.0	0.01	0.0	0,47,0	1.87e-06	1.35e-03	6.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	3.40e-03	0.0	47,47,0	1.89e-06	0.02	3.28e-03	47,47,47			1.00	0.08	0.92
1537	0.0	0.01	0.0	0,47,0	1.13e-05	1.35e-03	6.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	3.40e-03	0.0	47,47,0	1.11e-05	0.02	3.28e-03	47,47,47			1.00	0.08	0.92
1538	6.28e-04	3.76e-03	0.0	47,47,0	3.32e-05	7.32e-04	1.55e-03	47,47,47	0.0	0	0.96	0.09	0.91
	0.01	0.0	0.0	47,0,0	3.24e-05	0.01	2.06e-03	47,47,47			1.00	0.08	0.92
1539	6.81e-04	8.44e-04	0.0	47,47,0	4.64e-05	8.67e-04	4.82e-04	47,47,47	0.0	0	0.96	0.09	0.91
	5.16e-03	6.43e-04	0.0	47,47,0	4.52e-05	6.71e-03	1.85e-03	47,47,47			1.00	0.08	0.92
1540	6.81e-04	6.74e-03	0.0	47,47,0	8.85e-05	8.67e-04	2.54e-03	47,47,47	0.0	0	0.96	0.09	0.91
	5.28e-03	4.92e-03	0.0	47,47,0	8.74e-05	8.31e-03	1.74e-03	47,47,47			1.00	0.08	0.92
1541	0.0	6.74e-03	0.0	0,47,0	8.85e-05	2.19e-04	2.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.28e-03	4.92e-03	0.0	47,47,0	8.74e-05	8.31e-03	1.61e-03	47,47,47			1.00	0.08	0.92
2087	0.0	6.80e-03	0.0	0,47,0	8.72e-05	2.16e-04	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.06e-03	4.85e-03	0.0	47,47,0	8.62e-05	0.01	1.59e-03	47,47,47			1.00	0.08	0.92
2088	1.02e-03	6.80e-03	0.0	47,47,0	8.72e-05	1.22e-03	2.56e-03	47,47,47	0.0	0	0.96	0.09	0.91
	8.06e-03	4.85e-03	0.0	47,47,0	8.62e-05	0.01	1.74e-03	47,47,47			1.00	0.08	0.92
2089	1.02e-03	8.30e-04	0.0	47,47,0	5.04e-05	1.22e-03	4.72e-04	47,47,47	0.0	0	0.96	0.09	0.91
	5.20e-03	1.49e-03	0.0	47,47,0	4.95e-05	6.76e-03	2.02e-03	47,47,47			1.00	0.08	0.92
2090	6.24e-04	4.82e-03	0.0	47,47,0	3.78e-05	7.27e-04	1.68e-03	47,47,47	0.0	0	0.96	0.09	0.91
	0.01	4.87e-03	0.0	47,47,0	3.70e-05	0.01	2.54e-03	47,47,47			1.00	0.08	0.92
2091	0.0	0.01	0.0	0,47,0	3.78e-05	1.35e-03	6.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	7.93e-03	0.0	47,47,0	3.70e-05	0.02	3.30e-03	47,47,47			1.00	0.08	0.92
2092	0.0	0.01	0.0	0,47,0	1.82e-05	1.35e-03	6.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	7.93e-03	0.0	47,47,0	1.80e-05	0.02	3.30e-03	47,47,47			1.00	0.08	0.92
2093	0.0	0.01	0.0	0,47,0	3.88e-05	1.35e-03	6.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	7.93e-03	0.0	47,47,0	3.79e-05	0.02	3.30e-03	47,47,47			1.00	0.08	0.92
2094	6.28e-04	4.85e-03	0.0	47,47,0	3.88e-05	7.32e-04	1.69e-03	47,47,47	0.0	0	0.96	0.09	0.91
	0.01	4.86e-03	0.0	47,47,0	3.79e-05	0.01	2.54e-03	47,47,47			1.00	0.08	0.92
2095	1.06e-03	8.44e-04	0.0	47,47,0	5.11e-05	1.26e-03	4.82e-04	47,47,47	0.0	0	0.96	0.09	0.91
	5.16e-03	1.48e-03	0.0	47,47,0	5.02e-05	6.71e-03	2.01e-03	47,47,47			1.00	0.08	0.92
2096	1.06e-03	6.74e-03	0.0	47,47,0	8.85e-05	1.26e-03	2.54e-03	47,47,47	0.0	0	0.96	0.09	0.91
	8.11e-03	4.92e-03	0.0	47,47,0	8.74e-05	0.01	1.74e-03	47,47,47			1.00	0.08	0.92
2097	0.0	6.74e-03	0.0	0,47,0	8.85e-05	2.19e-04	2.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.11e-03	4.92e-03	0.0	47,47,0	8.74e-05	0.01	1.61e-03	47,47,47			1.00	0.08	0.92
2848	0.0	6.43e-03	0.0	0,47,0	4.01e-05	1.02e-04	2.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.06e-03	1.75e-03	0.0	47,47,0	3.91e-05	0.01	6.74e-04	47,47,47			1.00	0.08	0.92
2849	1.02e-03	6.43e-03	0.0	47,47,0	5.04e-05	1.22e-03	2.40e-03	47,47,47	0.0	0	0.96	0.09	0.91
	8.06e-03	1.75e-03	0.0	47,47,0	4.95e-05	0.01	1.70e-03	47,47,47			1.00	0.08	0.92
2850	1.02e-03	6.92e-04	0.0	47,47,0	5.04e-05	1.22e-03	3.98e-04	47,47,47	0.0	0	0.96	0.09	0.91
	3.01e-03	1.49e-03	0.0	47,47,0	4.95e-05	4.23e-03	2.02e-03	47,47,47			1.00	0.08	0.92
2851	3.17e-04	4.82e-03	0.0	47,47,0	3.78e-05	3.62e-04	1.68e-03	47,47,47	0.0	0	0.96	0.09	0.91
	2.02e-03	4.87e-03	0.0	47,47,0	3.70e-05	3.94e-03	2.54e-03	47,47,47			1.00	0.08	0.92
2852	0.0	0.01	0.0	0,47,0	3.78e-05	4.65e-04	5.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.48e-03	7.93e-03	0.0	47,47,0	3.70e-05	6.66e-03	3.30e-03	47,47,47			1.00	0.08	0.92
2853	0.0	0.01	0.0	0,47,0	1.82e-05	4.65e-04	5.49e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



	3.48e-03	7.93e-03	0.0	47,47,0	1.80e-05	6.66e-03	3.30e-03	47,47,47			1.00	0.08	0.92
2854	0.0	0.01	0.0	0,47,0	3.88e-05	4.64e-04	5.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.44e-03	7.93e-03	0.0	47,47,0	3.79e-05	6.61e-03	3.30e-03	47,47,47			1.00	0.08	0.92
2855	3.19e-04	4.85e-03	0.0	47,47,0	3.88e-05	3.64e-04	1.69e-03	47,47,47	0.0	0	0.96	0.09	0.91
	2.01e-03	4.86e-03	0.0	47,47,0	3.79e-05	3.92e-03	2.54e-03	47,47,47			1.00	0.08	0.92
2856	1.06e-03	7.17e-04	0.0	47,47,0	5.11e-05	1.26e-03	4.11e-04	47,47,47	0.0	0	0.96	0.09	0.91
	3.05e-03	1.48e-03	0.0	47,47,0	5.02e-05	4.28e-03	2.01e-03	47,47,47			1.00	0.08	0.92
2857	1.06e-03	6.48e-03	0.0	47,47,0	5.11e-05	1.26e-03	2.42e-03	47,47,47	0.0	0	0.96	0.09	0.91
	8.11e-03	1.70e-03	0.0	47,47,0	5.02e-05	0.01	1.70e-03	47,47,47			1.00	0.08	0.92
2858	0.0	6.48e-03	0.0	0,47,0	4.08e-05	1.00e-04	2.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.11e-03	1.70e-03	0.0	47,47,0	3.99e-05	0.01	6.60e-04	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.01	0.0		8.85e-05	0.02	6.48e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
38	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
256	0.0	0.09	0.0	0,47,0	2.32e-05	7.90e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	5.89e-04	3.28e-04	0.0	47,47,0	1.13e-05	5.44e-03	5.14e-03	47,47,47			1.00	0.08	0.92
257	0.0	0.09	0.0	0,47,0	2.32e-05	7.90e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	7.89e-04	8.03e-04	0.0	47,47,0	1.48e-05	5.44e-03	5.14e-03	47,47,47			1.00	0.08	0.92
258	0.0	0.07	0.0	0,47,0	1.91e-05	4.19e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	7.89e-04	8.03e-04	0.0	47,47,0	1.48e-05	2.01e-03	1.86e-03	47,47,47			1.00	0.08	0.92
259	0.0	0.05	0.0	0,47,0	6.22e-06	8.92e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.89e-04	9.42e-04	0.0	47,47,0	5.48e-06	8.52e-04	6.80e-04	47,47,47			1.00	0.08	0.92
260	0.0	4.28e-03	0.0	0,47,0	1.72e-06	1.14e-04	1.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.97e-05	9.42e-04	0.0	47,47,0	1.63e-06	3.81e-04	4.54e-04	47,47,47			1.00	0.08	0.92
261	0.0	3.70e-03	0.0	0,47,0	0.0	3.77e-04	1.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.89e-04	6.01e-05	0.0	47,47,0	0.0	5.12e-04	1.26e-04	47,47,47			1.00	0.08	0.92
262	0.0	0.05	0.0	0,47,0	5.54e-06	4.47e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.13e-03	0.0	0.0	47,0,0	0.0	2.85e-03	1.94e-03	47,47,47			1.00	0.08	0.92
263	0.0	0.05	0.0	0,47,0	7.43e-06	4.47e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.13e-03	6.74e-05	0.0	47,47,0	4.33e-06	2.85e-03	1.94e-03	47,47,47			1.00	0.08	0.92
264	0.0	0.05	0.0	0,47,0	7.43e-06	4.25e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.59e-04	1.37e-04	0.0	47,47,0	4.33e-06	1.59e-03	1.41e-03	47,47,47			1.00	0.08	0.92
265	0.0	0.03	0.0	0,47,0	2.06e-06	8.92e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.37e-04	0.0	0,47,0	1.74e-06	1.22e-04	1.53e-04	47,47,47			0.0	0.0	0.0
266	0.0	0.08	0.0	0,47,0	5.57e-06	2.68e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	9.09e-04	3.69e-04	0.0	47,47,0	1.75e-06	4.44e-03	3.88e-03	47,47,47			1.00	0.08	0.92
267	0.0	0.08	0.0	0,47,0	1.17e-05	4.81e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	9.09e-04	3.69e-04	0.0	47,47,0	8.07e-06	4.44e-03	3.88e-03	47,47,47			1.00	0.08	0.92
268	0.0	0.05	0.0	0,47,0	1.17e-05	4.81e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.35e-04	0.0	0,47,0	8.07e-06	1.69e-03	1.73e-03	47,47,47			0.0	0.0	0.0
432	0.0	0.09	0.0	0,47,0	2.32e-05	7.90e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	5.89e-04	3.28e-04	0.0	47,47,0	1.13e-05	5.44e-03	5.14e-03	47,47,47			1.00	0.08	0.92
433	0.0	0.09	0.0	0,47,0	2.66e-05	7.90e-03	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	7.89e-04	8.03e-04	0.0	47,47,0	2.49e-05	5.44e-03	5.14e-03	47,47,47			1.00	0.08	0.92
434	0.0	0.07	0.0	0,47,0	2.66e-05	4.19e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	7.89e-04	8.03e-04	0.0	47,47,0	2.49e-05	2.03e-03	2.09e-03	47,47,47			1.00	0.08	0.92
435	0.0	0.06	0.0	0,47,0	6.33e-06	8.92e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.89e-04	9.42e-04	0.0	47,47,0	5.79e-06	8.52e-04	6.80e-04	47,47,47			1.00	0.08	0.92
436	0.0	4.28e-03	0.0	0,47,0	1.72e-06	1.14e-04	1.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.97e-05	9.42e-04	0.0	47,47,0	1.63e-06	3.81e-04	4.54e-04	47,47,47			1.00	0.08	0.92
437	0.0	3.70e-03	0.0	0,47,0	0.0	3.77e-04	1.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.89e-04	6.01e-05	0.0	47,47,0	0.0	5.12e-04	1.26e-04	47,47,47			1.00	0.08	0.92
438	0.0	0.06	0.0	0,47,0	5.54e-06	4.47e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.13e-03	5.25e-04	0.0	47,47,0	0.0	2.85e-03	1.94e-03	47,47,47			1.00	0.08	0.92
439	0.0	0.06	0.0	0,47,0	8.23e-06	4.47e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.13e-03	6.30e-04	0.0	47,47,0	6.75e-06	2.85e-03	1.94e-03	47,47,47			1.00	0.08	0.92
440	0.0	0.05	0.0	0,47,0	8.23e-06	4.25e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.62e-04	6.30e-04	0.0	47,47,0	6.75e-06	1.59e-03	1.41e-03	47,47,47			1.00	0.08	0.92
441	0.0	0.03	0.0	0,47,0	2.06e-06	8.92e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.18e-04	0.0	0,47,0	1.74e-06	1.22e-04	1.53e-04	47,47,47			0.0	0.0	0.0
713	0.0	0.08	0.0	0,47,0	5.57e-06	2.68e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	9.09e-04	3.69e-04	0.0	47,47,0	3.40e-06	4.44e-03	3.88e-03	47,47,47			1.00	0.08	0.92
714	0.0	0.08	0.0	0,47,0	1.67e-05	4.81e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



9.09e-04	3.69e-04	0.0	47,47,0	1.61e-05	4.44e-03	3.88e-03	47,47,47	1.00	0.08	0.92
715	0.0	0.05	0.0	0,47,0	1.67e-05	4.81e-03	0.02 47,47,47	0.0	0.0	0.0
	0.0	2.76e-04	0.0	0,47,0	1.61e-05	1.69e-03	1.73e-03 47,47,47	0.0	0.0	0.0
1077	0.0	0.06	0.0	0,47,0	8.99e-06	3.63e-03	0.02 47,47,47	0.0	0.0	0.0
	0.0	1.61e-03	0.0	0,47,0	8.61e-06	2.56e-03	2.66e-03 47,47,47	0.0	0.0	0.0
1078	0.0	0.06	0.0	0,47,0	2.66e-05	3.63e-03	0.02 47,47,47	0.0	0.0	0.0
	0.0	1.85e-03	0.0	0,47,0	2.49e-05	2.56e-03	2.66e-03 47,47,47	0.0	0.0	0.0
1079	0.0	0.06	0.0	0,47,0	2.66e-05	1.57e-03	0.02 47,47,47	0.0	0.0	0.0
	0.0	1.85e-03	0.0	0,47,0	2.49e-05	2.03e-03	2.09e-03 47,47,47	0.0	0.0	0.0
1080	0.0	0.06	0.0	0,47,0	6.33e-06	1.32e-04	0.02 47,47,47	0.0	0.0	0.0
	0.0	1.09e-03	0.0	0,47,0	5.79e-06	7.93e-04	1.02e-03 47,47,47	0.0	0.0	0.0
1081	0.0	0.06	0.0	0,47,0	2.83e-06	2.04e-03	0.02 47,47,47	0.0	0.0	0.0
	5.88e-04	8.63e-04	0.0	47,47,0	0.0	9.91e-04	9.61e-04 47,47,47	1.00	0.08	0.92
1082	0.0	0.06	0.0	0,47,0	1.29e-05	2.04e-03	0.02 47,47,47	0.0	0.0	0.0
	6.62e-04	1.07e-03	0.0	47,47,0	1.21e-05	1.24e-03	1.09e-03 47,47,47	1.00	0.08	0.92
1083	0.0	0.05	0.0	0,47,0	1.29e-05	1.99e-03	0.02 47,47,47	0.0	0.0	0.0
	6.62e-04	1.07e-03	0.0	47,47,0	1.21e-05	1.24e-03	1.09e-03 47,47,47	1.00	0.08	0.92
1084	0.0	0.03	0.0	0,47,0	0.0	5.96e-04	0.01 47,47,47	0.0	0.0	0.0
	0.0	6.38e-04	0.0	0,47,0	0.0	9.08e-05	2.59e-04 47,47,47	0.0	0.0	0.0
1085	0.0	0.06	0.0	0,47,0	3.95e-06	5.39e-04	0.02 47,47,47	0.0	0.0	0.0
	7.88e-05	7.96e-05	0.0	47,47,0	3.40e-06	7.93e-04	7.56e-04 47,47,47	1.00	0.08	0.92
1086	0.0	0.06	0.0	0,47,0	2.67e-05	1.43e-03	0.02 47,47,47	0.0	0.0	0.0
	7.88e-05	2.76e-04	0.0	47,47,0	2.63e-05	8.17e-04	8.95e-04 47,47,47	1.00	0.08	0.92
1087	0.0	0.04	0.0	0,47,0	2.67e-05	1.43e-03	0.02 47,47,47	0.0	0.0	0.0
	0.0	2.76e-04	0.0	0,47,0	2.63e-05	8.17e-04	8.95e-04 47,47,47	0.0	0.0	0.0
1469	0.0	0.05	0.0	0,47,0	2.20e-05	1.72e-03	0.02 47,47,47	0.0	0.0	0.0
	5.95e-04	1.27e-03	0.0	47,47,0	2.16e-05	1.12e-03	9.61e-04 47,47,47	1.00	0.08	0.92
1470	0.0	0.04	0.0	0,47,0	2.20e-05	1.72e-03	0.01 47,47,47	0.0	0.0	0.0
	0.0	1.07e-03	0.0	0,47,0	2.16e-05	2.01e-04	4.06e-04 47,47,47	0.0	0.0	0.0
1471	0.0	0.03	0.0	0,47,0	1.95e-05	1.90e-04	9.72e-03 47,47,47	0.0	0.0	0.0
	0.0	8.97e-04	0.0	0,47,0	1.94e-05	2.18e-04	3.63e-04 47,47,47	0.0	0.0	0.0
1472	0.0	5.19e-03	0.0	0,47,0	1.95e-05	1.37e-04	1.68e-03 47,47,47	0.0	0.0	0.0
	7.20e-04	6.00e-04	0.0	47,47,0	1.94e-05	9.12e-04	3.63e-04 47,47,47	1.00	0.08	0.92
1473	0.0	0.05	0.0	0,47,0	1.60e-06	3.88e-04	0.01 47,47,47	0.0	0.0	0.0
	1.10e-03	7.96e-05	0.0	47,47,0	1.44e-06	1.43e-03	3.21e-04 47,47,47	1.00	0.08	0.92
1474	0.0	0.05	0.0	0,47,0	4.40e-05	9.95e-04	0.01 47,47,47	0.0	0.0	0.0
	1.10e-03	2.66e-04	0.0	47,47,0	4.38e-05	1.43e-03	3.21e-04 47,47,47	1.00	0.08	0.92
1475	0.0	0.03	0.0	0,47,0	4.40e-05	9.95e-04	0.01 47,47,47	0.0	0.0	0.0
	2.31e-04	2.66e-04	0.0	47,47,0	4.38e-05	4.88e-04	2.97e-04 47,47,47	1.00	0.08	0.92
1541	0.0	0.05	0.0	0,47,0	9.18e-05	3.33e-04	0.02 47,47,47	0.0	0.0	0.0
	6.34e-03	6.18e-03	0.0	47,47,0	9.16e-05	0.01	2.66e-03 47,47,47	1.00	0.08	0.92
1542	0.0	0.05	0.0	0,47,0	9.18e-05	6.58e-04	0.02 47,47,47	0.0	0.0	0.0
	6.34e-03	6.18e-03	0.0	47,47,0	9.16e-05	0.01	2.66e-03 47,47,47	1.00	0.08	0.92
1543	0.0	0.04	0.0	0,47,0	1.67e-05	6.58e-04	0.01 47,47,47	0.0	0.0	0.0
	3.54e-03	4.49e-03	0.0	47,47,0	1.61e-05	5.88e-03	2.25e-03 47,47,47	1.00	0.08	0.92
1544	0.0	0.04	0.0	0,47,0	1.09e-05	1.25e-04	0.01 47,47,47	0.0	0.0	0.0
	2.36e-03	3.84e-03	0.0	47,47,0	1.09e-05	4.13e-03	1.26e-03 47,47,47	1.00	0.08	0.92
1545	5.88e-04	4.68e-03	0.0	47,47,0	1.09e-05	6.36e-04	1.55e-03 47,47,47	0.0	0.99	0.09
	1.02e-03	3.50e-03	0.0	47,47,0	1.09e-05	2.24e-03	1.22e-03 47,47,47	1.00	0.08	0.92
1546	5.88e-04	6.19e-03	0.0	47,47,0	3.10e-06	6.36e-04	2.03e-03 47,47,47	0.0	0.99	0.09
	0.0	1.75e-03	0.0	0,47,0	2.93e-06	7.05e-04	1.03e-03 47,47,47	0.0	0.0	0.0
1547	0.0	0.05	0.0	0,47,0	3.10e-06	1.64e-03	0.02 47,47,47	0.0	0.0	0.0
	5.95e-04	1.27e-03	0.0	47,47,0	2.93e-06	1.12e-03	9.61e-04 47,47,47	1.00	0.08	0.92
2097	0.0	0.03	0.0	0,47,0	9.18e-05	5.88e-04	0.01 47,47,47	0.0	0.0	0.0
	7.74e-03	6.18e-03	0.0	47,47,0	9.16e-05	0.01	3.45e-03 47,47,47	1.00	0.08	0.92
2098	0.0	0.03	0.0	0,47,0	9.18e-05	5.88e-04	0.01 47,47,47	0.0	0.0	0.0
	7.74e-03	6.18e-03	0.0	47,47,0	9.16e-05	0.01	3.45e-03 47,47,47	1.00	0.08	0.92
2099	0.0	0.03	0.0	0,47,0	2.36e-05	2.58e-04	0.01 47,47,47	0.0	0.0	0.0
	6.06e-03	4.49e-03	0.0	47,47,0	2.27e-05	8.61e-03	2.25e-03 47,47,47	1.00	0.08	0.92
2100	0.0	0.03	0.0	0,47,0	1.09e-05	2.58e-04	8.44e-03 47,47,47	0.0	0.0	0.0
	3.80e-03	3.84e-03	0.0	47,47,0	1.09e-05	5.31e-03	1.26e-03 47,47,47	1.00	0.08	0.92
2101	8.29e-04	4.68e-03	0.0	47,47,0	1.09e-05	1.03e-03	1.55e-03 47,47,47	0.0	0.99	0.09
	1.96e-03	3.50e-03	0.0	47,47,0	1.09e-05	2.72e-03	1.22e-03 47,47,47	1.00	0.08	0.92
2102	8.29e-04	6.19e-03	0.0	47,47,0	3.10e-06	1.03e-03	2.24e-03 47,47,47	0.0	0.99	0.09
	7.08e-04	1.75e-03	0.0	47,47,0	2.93e-06	9.73e-04	1.03e-03 47,47,47	1.00	0.08	0.92
2103	0.0	0.03	0.0	0,47,0	1.47e-05	2.00e-03	0.01 47,47,47	0.0	0.0	0.0
	6.33e-04	1.27e-03	0.0	47,47,0	1.40e-05	1.12e-03	6.23e-04 47,47,47	1.00	0.08	0.92
2104	0.0	0.03	0.0	0,47,0	4.36e-05	2.09e-03	0.01 47,47,47	0.0	0.0	0.0
	7.12e-04	1.27e-03	0.0	47,47,0	4.28e-05	1.12e-03	6.23e-04 47,47,47	1.00	0.08	0.92
2105	0.0	0.03	0.0	0,47,0	4.36e-05	2.09e-03	0.01 47,47,47	0.0	0.0	0.0
	8.84e-04	1.01e-03	0.0	47,47,0	4.28e-05	1.14e-03	3.91e-04 47,47,47	1.00	0.08	0.92
2106	0.0	0.02	0.0	0,47,0	1.95e-05	2.52e-04	5.97e-03 47,47,47	0.0	0.0	0.0
	8.84e-04	8.97e-04	0.0	47,47,0	1.94e-05	1.14e-03	3.63e-04 47,47,47	1.00	0.08	0.92
2107	0.0	6.86e-03	0.0	0,47,0	2.33e-05	1.37e-04	2.24e-03 47,47,47	0.0	0.0	0.0
	7.20e-04	6.00e-04	0.0	47,47,0	2.32e-05	9.12e-04	3.63e-04 47,47,47	1.00	0.08	0.92

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



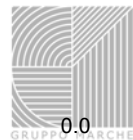
2108	0.0	0.03	0.0	0,47,0	2.33e-05	5.69e-04	9.09e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.10e-03	2.32e-04	0.0	47,47,0	2.32e-05	1.43e-03	3.21e-04	47,47,47			1.00	0.08	0.92	0.0
2109	0.0	0.03	0.0	0,47,0	5.39e-05	1.29e-03	9.09e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.10e-03	2.32e-04	0.0	47,47,0	5.37e-05	1.43e-03	5.32e-04	47,47,47			1.00	0.08	0.92	0.0
2110	0.0	0.02	0.0	0,47,0	5.39e-05	1.29e-03	8.70e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.31e-04	1.65e-04	0.0	47,47,0	5.37e-05	5.34e-04	5.32e-04	47,47,47			1.00	0.08	0.92	0.0
2858	0.0	0.03	0.0	0,47,0	2.91e-05	5.88e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	7.74e-03	2.54e-03	0.0	47,47,0	2.82e-05	0.01	3.45e-03	47,47,47			1.00	0.08	0.92	0.0
2859	0.0	0.03	0.0	0,47,0	2.91e-05	5.88e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	7.74e-03	2.54e-03	0.0	47,47,0	2.82e-05	0.01	3.45e-03	47,47,47			1.00	0.08	0.92	0.0
2860	0.0	0.02	0.0	0,47,0	2.36e-05	2.58e-04	7.60e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.06e-03	1.87e-03	0.0	47,47,0	2.27e-05	8.61e-03	1.17e-03	47,47,47			1.00	0.08	0.92	0.0
2861	0.0	0.01	0.0	0,47,0	7.43e-06	2.58e-04	4.95e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	3.80e-03	8.13e-04	0.0	47,47,0	7.23e-06	5.31e-03	1.17e-03	47,47,47			1.00	0.08	0.92	0.0
2862	8.29e-04	3.46e-03	0.0	47,47,0	2.87e-06	1.03e-03	1.33e-03	47,47,47	0.0	0	0.99	0.09	0.91	0.0
	1.96e-03	3.23e-04	0.0	47,47,0	2.86e-06	2.72e-03	6.44e-04	47,47,47			1.00	0.08	0.92	0.0
2863	8.29e-04	5.92e-03	0.0	47,47,0	3.04e-06	1.03e-03	2.24e-03	47,47,47	0.0	0	0.99	0.09	0.91	0.0
	7.08e-04	0.0	0.0	47,0,0	2.90e-06	9.73e-04	3.21e-04	47,47,47			1.00	0.08	0.92	0.0
2864	0.0	0.02	0.0	0,47,0	1.47e-05	2.00e-03	8.16e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.33e-04	0.0	0.0	47,0,0	1.40e-05	8.03e-04	1.43e-04	47,47,47			1.00	0.08	0.92	0.0
2865	0.0	0.02	0.0	0,47,0	4.36e-05	2.09e-03	8.16e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	7.12e-04	0.0	0.0	47,0,0	4.28e-05	9.74e-04	3.91e-04	47,47,47			1.00	0.08	0.92	0.0
2866	0.0	0.02	0.0	0,47,0	4.36e-05	2.09e-03	7.31e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	8.84e-04	0.0	0.0	47,0,0	4.28e-05	1.14e-03	3.91e-04	47,47,47			1.00	0.08	0.92	0.0
2867	0.0	7.74e-03	0.0	0,47,0	1.65e-05	2.52e-04	2.66e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	8.84e-04	0.0	0.0	47,0,0	1.64e-05	1.14e-03	7.62e-05	47,47,47			1.00	0.08	0.92	0.0
2868	0.0	6.86e-03	0.0	0,47,0	2.33e-05	1.12e-04	2.24e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	3.71e-04	5.61e-05	0.0	47,47,0	2.32e-05	5.01e-04	2.02e-04	47,47,47			1.00	0.08	0.92	0.0
2869	0.0	0.02	0.0	0,47,0	2.33e-05	5.69e-04	8.08e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	3.87e-04	2.32e-04	0.0	47,47,0	2.32e-05	5.80e-04	3.11e-04	47,47,47			1.00	0.08	0.92	0.0
2870	0.0	0.02	0.0	0,47,0	5.39e-05	1.29e-03	8.08e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	3.87e-04	2.32e-04	0.0	47,47,0	5.37e-05	5.80e-04	5.32e-04	47,47,47			1.00	0.08	0.92	0.0
2871	0.0	0.01	0.0	0,47,0	5.39e-05	1.29e-03	5.68e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.30e-04	1.65e-04	0.0	47,47,0	5.37e-05	5.34e-04	5.32e-04	47,47,47			1.00	0.08	0.92	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	7.74e-03	0.09	0.0		9.18e-05	0.01	0.04		0.0					

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
40	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
268	0.0	0.03	0.0	0,47,0	1.60e-06	8.66e-04	9.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.59e-04	0.0	0,47,0	1.38e-06	2.22e-04	3.37e-04	47,47,47			0.0	0.0	0.0
269	0.0	0.03	0.0	0,47,0	1.60e-06	8.66e-04	9.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.59e-04	0.0	0,47,0	1.38e-06	2.22e-04	3.37e-04	47,47,47			0.0	0.0	0.0
270	0.0	0.04	0.0	0,47,0	2.89e-06	3.39e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.06e-04	4.99e-04	0.0	47,47,0	0.0	1.59e-03	1.61e-03	47,47,47			1.00	0.08	0.92
271	0.0	0.04	0.0	0,47,0	3.26e-06	3.39e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.06e-04	3.07e-04	0.0	47,47,0	1.29e-06	1.59e-03	1.61e-03	47,47,47			1.00	0.08	0.92
272	0.0	0.04	0.0	0,47,0	3.26e-06	3.36e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.00e-04	4.90e-04	0.0	47,47,0	1.29e-06	1.43e-03	1.47e-03	47,47,47			1.00	0.08	0.92
273	0.0	0.03	0.0	0,47,0	0.0	5.98e-04	8.81e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.90e-04	0.0	0,47,0	0.0	1.32e-04	2.36e-04	47,47,47			0.0	0.0	0.0
715	0.0	0.03	0.0	0,47,0	1.89e-06	8.66e-04	9.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.16e-03	0.0	0,47,0	1.76e-06	2.22e-04	4.08e-04	47,47,47			0.0	0.0	0.0
716	0.0	0.03	0.0	0,47,0	1.89e-06	8.66e-04	9.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.16e-03	0.0	0,47,0	1.76e-06	2.33e-04	4.45e-04	47,47,47			0.0	0.0	0.0
717	0.0	0.04	0.0	0,47,0	3.43e-06	3.39e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.06e-04	1.06e-03	0.0	47,47,0	2.46e-06	1.59e-03	1.61e-03	47,47,47			1.00	0.08	0.92
718	0.0	0.04	0.0	0,47,0	4.41e-06	3.39e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.06e-04	7.73e-04	0.0	47,47,0	3.62e-06	1.59e-03	1.61e-03	47,47,47			1.00	0.08	0.92
719	0.0	0.04	0.0	0,47,0	4.41e-06	3.36e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.00e-04	1.05e-03	0.0	47,47,0	3.62e-06	1.43e-03	1.47e-03	47,47,47			1.00	0.08	0.92
720	0.0	0.03	0.0	0,47,0	0.0	5.98e-04	8.81e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.05e-03	0.0	0,47,0	0.0	1.86e-04	3.97e-04	47,47,47			0.0	0.0	0.0
1087	0.0	0.03	0.0	0,47,0	3.15e-06	4.33e-04	8.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.16e-03	0.0	0,47,0	3.07e-06	1.83e-04	4.08e-04	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO

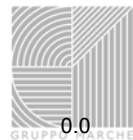


1088	0.0	0.03	0.0	0,47,0	3.15e-06	4.49e-04	8.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.16e-03	0.0	0,47,0	3.07e-06	2.33e-04	4.45e-04	47,47,47			0.0	0.0	0.0
1089	0.0	0.04	0.0	0,47,0	8.47e-06	1.68e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.87e-04	1.06e-03	0.0	47,47,0	7.77e-06	9.19e-04	1.05e-03	47,47,47			1.00	0.08	0.92
1090	0.0	0.04	0.0	0,47,0	9.47e-06	1.72e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.87e-04	7.73e-04	0.0	47,47,0	8.85e-06	9.19e-04	1.05e-03	47,47,47			1.00	0.08	0.92
1091	0.0	0.03	0.0	0,47,0	9.47e-06	1.72e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.05e-03	0.0	0,47,0	8.85e-06	8.96e-04	1.03e-03	47,47,47			0.0	0.0	0.0
1092	0.0	0.03	0.0	0,47,0	0.0	3.91e-04	8.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.05e-03	0.0	0,47,0	0.0	1.86e-04	3.97e-04	47,47,47			0.0	0.0	0.0
1475	0.0	0.02	0.0	0,47,0	6.82e-06	1.05e-04	6.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.53e-04	0.0	0,47,0	6.76e-06	8.70e-05	2.50e-04	47,47,47			0.0	0.0	0.0
1476	0.0	0.02	0.0	0,47,0	6.82e-06	1.98e-04	6.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.53e-04	0.0	0,47,0	6.76e-06	1.11e-04	2.57e-04	47,47,47			0.0	0.0	0.0
1477	0.0	0.03	0.0	0,47,0	1.70e-05	1.65e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.95e-04	6.87e-04	0.0	47,47,0	1.67e-05	4.69e-04	3.54e-04	47,47,47			1.00	0.08	0.92
1478	0.0	0.03	0.0	0,47,0	1.70e-05	1.69e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.95e-04	3.51e-04	0.0	47,47,0	1.67e-05	4.69e-04	3.54e-04	47,47,47			1.00	0.08	0.92
1479	0.0	0.03	0.0	0,47,0	1.61e-05	1.69e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.43e-04	6.04e-04	0.0	47,47,0	1.58e-05	3.96e-04	3.30e-04	47,47,47			1.00	0.08	0.92
1480	0.0	0.02	0.0	0,47,0	0.0	2.01e-04	6.64e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.43e-04	6.04e-04	0.0	47,47,0	0.0	3.60e-04	2.73e-04	47,47,47			1.00	0.08	0.92
2110	0.0	0.01	0.0	0,47,0	1.10e-05	2.26e-04	4.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.27e-04	1.45e-04	0.0	47,47,0	1.09e-05	1.03e-03	7.63e-05	47,47,47			1.00	0.08	0.92
2111	0.0	0.01	0.0	0,47,0	1.10e-05	3.60e-04	4.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.27e-04	1.80e-04	0.0	47,47,0	1.09e-05	1.03e-03	1.48e-04	47,47,47			1.00	0.08	0.92
2112	0.0	0.02	0.0	0,47,0	3.82e-05	2.18e-03	8.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.43e-04	2.81e-04	0.0	47,47,0	3.75e-05	9.18e-04	4.41e-04	47,47,47			1.00	0.08	0.92
2113	0.0	0.02	0.0	0,47,0	3.82e-05	2.20e-03	8.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.35e-04	2.81e-04	0.0	47,47,0	3.75e-05	7.95e-04	4.41e-04	47,47,47			1.00	0.08	0.92
2114	0.0	0.02	0.0	0,47,0	3.46e-05	2.20e-03	8.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.57e-04	1.84e-04	0.0	47,47,0	3.41e-05	1.08e-03	4.01e-04	47,47,47			1.00	0.08	0.92
2115	0.0	0.01	0.0	0,47,0	1.57e-06	3.66e-04	4.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.57e-04	1.35e-04	0.0	47,47,0	1.54e-06	1.08e-03	8.35e-05	47,47,47			1.00	0.08	0.92
2871	0.0	6.86e-03	0.0	0,47,0	1.10e-05	2.26e-04	2.36e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.27e-04	0.0	0.0	47,0,0	1.09e-05	1.03e-03	2.36e-05	47,47,47			1.00	0.08	0.92
2872	0.0	6.99e-03	0.0	0,47,0	1.10e-05	3.60e-04	2.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.27e-04	0.0	0.0	47,0,0	1.09e-05	1.03e-03	9.03e-05	47,47,47			1.00	0.08	0.92
2873	0.0	0.02	0.0	0,47,0	3.82e-05	2.18e-03	7.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.43e-04	0.0	0.0	47,0,0	3.75e-05	9.18e-04	4.41e-04	47,47,47			1.00	0.08	0.92
2874	0.0	0.02	0.0	0,47,0	3.82e-05	2.20e-03	7.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.35e-04	0.0	0.0	47,0,0	3.75e-05	7.95e-04	4.41e-04	47,47,47			1.00	0.08	0.92
2875	0.0	0.01	0.0	0,47,0	3.46e-05	2.20e-03	6.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.57e-04	0.0	0.0	47,0,0	3.41e-05	1.08e-03	4.01e-04	47,47,47			1.00	0.08	0.92
2876	0.0	8.46e-03	0.0	0,47,0	1.57e-06	3.66e-04	3.01e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.57e-04	0.0	0.0	47,0,0	1.54e-06	1.08e-03	8.35e-05	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	8.57e-04	0.04	0.0		3.82e-05	3.39e-03	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
43	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
128	0.0	0.04	0.0	0,47,0	1.37e-06	1.70e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.27e-04	0.0	0,47,0	1.26e-06	1.44e-05	4.91e-05	47,47,47			0.0	0.0	0.0
181	0.0	0.04	0.0	0,47,0	2.07e-06	1.70e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.27e-04	0.0	0,47,0	1.86e-06	1.44e-05	4.91e-05	47,47,47			0.0	0.0	0.0
185	0.0	0.05	0.0	0,47,0	2.55e-06	5.91e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.72e-05	0.0	0,47,0	2.19e-06	4.40e-06	2.41e-05	47,47,47			0.0	0.0	0.0
189	0.0	0.07	0.0	0,47,0	2.99e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.37e-05	0.0	0,47,0	2.28e-06	3.98e-06	2.34e-05	47,47,47			0.0	0.0	0.0
195	0.0	0.07	0.0	0,47,0	2.99e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.60e-05	0.0	0,47,0	2.28e-06	3.98e-06	8.30e-06	47,47,47			0.0	0.0	0.0
199	0.0	0.14	0.0	0,47,0	3.92e-06	2.05e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.22e-05	0.0	0,47,0	0.0	7.02e-05	9.52e-05	47,47,47			0.0	0.0	0.0
211	0.0	0.14	0.0	0,47,0	3.92e-06	2.05e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.22e-05	0.0	0,47,0	0.0	7.02e-05	9.52e-05	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



597	0.0	0.04	0.0	0,47,0	1.37e-06	1.70e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.17e-05	1.27e-04	0.0	47,47,0	1.26e-06	6.26e-05	4.91e-05	47,47,47			1.00	0.08	0.92
649	0.0	0.04	0.0	0,47,0	2.07e-06	1.70e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.17e-05	1.38e-04	0.0	47,47,0	1.86e-06	6.26e-05	4.91e-05	47,47,47			1.00	0.08	0.92
653	0.0	0.05	0.0	0,47,0	2.55e-06	5.91e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.13e-04	0.0	0,47,0	2.19e-06	8.64e-06	6.51e-05	47,47,47			0.0	0.0	0.0
657	0.0	0.07	0.0	0,47,0	3.87e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.13e-04	0.0	0,47,0	3.17e-06	8.64e-06	6.51e-05	47,47,47			0.0	0.0	0.0
663	0.0	0.07	0.0	0,47,0	3.87e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.37e-04	0.0	0,47,0	3.17e-06	4.84e-06	4.27e-05	47,47,47			0.0	0.0	0.0
667	0.0	0.14	0.0	0,47,0	3.92e-06	2.05e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	5.70e-05	9.22e-05	0.0	47,47,0	0.0	7.02e-05	9.52e-05	47,47,47			1.00	0.08	0.92
679	0.0	0.14	0.0	0,47,0	3.92e-06	2.05e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	5.70e-05	9.22e-05	0.0	47,47,0	0.0	7.02e-05	9.52e-05	47,47,47			1.00	0.08	0.92
955	0.0	0.03	0.0	0,47,0	1.06e-06	1.55e-05	9.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.85e-05	2.56e-05	0.0	47,47,0	0.0	8.22e-05	2.78e-05	47,47,47			1.00	0.08	0.92
1007	0.0	0.04	0.0	0,47,0	1.71e-06	1.55e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.85e-05	2.19e-04	0.0	47,47,0	1.51e-06	8.22e-05	6.33e-05	47,47,47			1.00	0.08	0.92
1011	0.0	0.05	0.0	0,47,0	2.41e-06	2.39e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.00e-04	0.0	0,47,0	2.10e-06	8.64e-06	1.43e-04	47,47,47			0.0	0.0	0.0
1015	0.0	0.07	0.0	0,47,0	9.28e-06	2.34e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.59e-04	0.0	0,47,0	8.60e-06	1.51e-05	1.98e-04	47,47,47			0.0	0.0	0.0
1021	0.0	0.07	0.0	0,47,0	9.28e-06	2.34e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.59e-04	0.0	0,47,0	8.60e-06	1.51e-05	1.98e-04	47,47,47			0.0	0.0	0.0
1023	0.0	0.12	0.0	0,47,0	2.95e-06	1.09e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	5.70e-05	9.05e-05	0.0	47,47,0	0.0	6.89e-05	2.84e-05	47,47,47			1.00	0.08	0.92
1035	0.0	0.12	0.0	0,47,0	2.95e-06	1.09e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	5.70e-05	9.05e-05	0.0	47,47,0	0.0	6.89e-05	2.84e-05	47,47,47			1.00	0.08	0.92
1369	0.0	0.03	0.0	0,47,0	0.0	1.95e-05	8.21e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.07e-05	1.41e-05	0.0	47,47,0	0.0	1.16e-04	2.39e-05	47,47,47			1.00	0.08	0.92
1426	0.0	0.04	0.0	0,47,0	0.0	1.95e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.07e-05	2.19e-04	0.0	47,47,0	0.0	1.16e-04	6.33e-05	47,47,47			1.00	0.08	0.92
1428	0.0	0.05	0.0	0,47,0	1.31e-06	2.39e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.00e-04	0.0	0,47,0	1.04e-06	1.26e-05	1.43e-04	47,47,47			0.0	0.0	0.0
1430	0.0	0.07	0.0	0,47,0	9.86e-06	2.34e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	9.55e-05	6.59e-04	0.0	47,47,0	9.51e-06	1.29e-04	1.98e-04	47,47,47			1.00	0.08	0.92
1432	0.0	0.07	0.0	0,47,0	2.49e-05	8.83e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.07e-04	6.59e-04	0.0	47,47,0	2.49e-05	6.18e-04	1.98e-04	47,47,47			1.00	0.08	0.92
1435	0.0	0.01	0.0	0,47,0	3.07e-05	8.83e-06	4.06e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.07e-04	0.0	0.0	47,0,0	3.07e-05	6.18e-04	1.03e-05	47,47,47			1.00	0.08	0.92
1436	0.0	0.12	0.0	0,47,0	3.81e-05	3.55e-05	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	1.42e-04	7.48e-04	0.0	47,47,0	3.78e-05	1.82e-04	2.36e-04	47,47,47			1.00	0.08	0.92
1609	0.0	0.12	0.0	0,47,0	3.89e-05	3.55e-05	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.48e-04	0.0	0,47,0	3.89e-05	5.36e-05	2.36e-04	47,47,47			0.0	0.0	0.0
1613	0.0	0.01	0.0	0,47,0	3.89e-05	1.68e-05	3.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.21e-04	0.0	0,47,0	3.89e-05	5.36e-05	2.23e-04	47,47,47			0.0	0.0	0.0
1615	0.0	0.01	0.0	0,47,0	1.09e-04	3.05e-05	4.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.79e-03	0.0	0,47,0	1.08e-04	1.70e-04	6.41e-04	47,47,47			0.0	0.0	0.0
1619	0.0	0.01	0.0	0,47,0	1.09e-04	3.05e-05	4.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.79e-03	0.0	0,47,0	1.08e-04	1.70e-04	6.41e-04	47,47,47			0.0	0.0	0.0
1892	0.0	0.03	0.0	0,47,0	5.05e-06	1.95e-05	7.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.78e-04	0.0	0.0	47,0,0	5.02e-06	5.70e-04	1.99e-05	47,47,47			1.00	0.08	0.92
1957	0.0	0.04	0.0	0,47,0	5.05e-06	1.95e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.78e-04	1.45e-05	0.0	47,47,0	5.02e-06	5.70e-04	1.99e-05	47,47,47			1.00	0.08	0.92
1965	0.0	0.04	0.0	0,47,0	0.0	1.85e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.91e-04	8.74e-05	0.0	47,47,0	0.0	3.49e-04	2.95e-05	47,47,47			1.00	0.08	0.92
1973	0.0	0.05	0.0	0,47,0	9.86e-06	4.22e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.70e-04	8.74e-05	0.0	47,47,0	9.51e-06	3.20e-04	2.95e-05	47,47,47			1.00	0.08	0.92
1987	0.0	0.05	0.0	0,47,0	2.49e-05	8.83e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.07e-04	4.02e-04	0.0	47,47,0	2.49e-05	6.18e-04	1.15e-04	47,47,47			1.00	0.08	0.92
2001	0.0	0.02	0.0	0,47,0	3.07e-05	8.83e-06	7.28e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.07e-04	5.89e-04	0.0	47,47,0	3.07e-05	6.18e-04	1.72e-04	47,47,47			1.00	0.08	0.92
2003	0.0	0.05	0.0	0,47,0	3.84e-05	3.55e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.42e-04	7.48e-04	0.0	47,47,0	3.83e-05	1.82e-04	2.36e-04	47,47,47			1.00	0.08	0.92
2019	0.0	0.05	0.0	0,47,0	3.89e-05	3.55e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.33e-04	0.0	0,47,0	3.89e-05	5.36e-05	2.83e-04	47,47,47			0.0	0.0	0.0
2039	0.0	0.02	0.0	0,47,0	3.89e-05	2.13e-05	5.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.00e-03	0.0	0,47,0	3.89e-05	7.46e-05	3.44e-04	47,47,47			0.0	0.0	0.0
2047	0.0	0.02	0.0	0,47,0	1.09e-04	1.37e-04	7.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.79e-03	0.0	0,47,0	1.08e-04	1.70e-04	6.41e-04	47,47,47			0.0	0.0	0.0
2067	0.0	0.02	0.0	0,47,0	1.09e-04	1.37e-04	7.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.79e-03	0.0	0,47,0	1.08e-04	1.70e-04	6.41e-04	47,47,47			0.0	0.0	0.0
2667	0.0	0.04	0.0	0,47,0	5.73e-05	5.16e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.96e-03	0.0	0.0	47,0,0	5.72e-05	2.32e-03	4.00e-05	47,47,47			1.00	0.08	0.92
2726	0.0	0.04	0.0	0,47,0	5.73e-05	5.16e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0

**Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO**

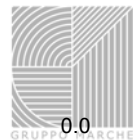


2730	1.96e-03	0.0	0.0	47,0,0	5.72e-05	2.32e-03	4.00e-05	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.04	0.0	0,47,0	1.03e-06	3.70e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.93e-04	0.0	0.0	47,0,0	0.0	7.07e-04	1.05e-05	47,47,47	0.0	0	1.00	0.08	0.92
2734	0.0	0.04	0.0	0,47,0	8.64e-06	4.22e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.96e-04	4.90e-05	0.0	47,47,0	8.46e-06	3.54e-04	1.80e-05	47,47,47	0.0	0	1.00	0.08	0.92
2740	0.0	0.04	0.0	0,47,0	8.64e-06	4.22e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.29e-04	1.06e-03	0.0	47,47,0	8.46e-06	1.63e-04	3.10e-04	47,47,47	0.0	0	1.00	0.08	0.92
2746	0.0	0.03	0.0	0,47,0	2.87e-05	7.00e-06	9.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.13e-03	0.0	0,47,0	2.86e-05	1.69e-05	3.21e-04	47,47,47	0.0	0	0.0	0.0	0.0
2748	0.0	0.03	0.0	0,47,0	4.38e-05	5.35e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.13e-03	0.0	0,47,0	4.37e-05	2.32e-05	3.21e-04	47,47,47	0.0	0	0.0	0.0	0.0
2760	0.0	0.03	0.0	0,47,0	4.38e-05	5.35e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.01e-03	0.0	0,47,0	4.37e-05	5.24e-05	2.98e-04	47,47,47	0.0	0	0.0	0.0	0.0
2772	0.0	0.02	0.0	0,47,0	1.44e-05	2.39e-05	6.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.01e-03	0.0	0,47,0	1.43e-05	7.46e-05	3.44e-04	47,47,47	0.0	0	0.0	0.0	0.0
2775	0.0	0.03	0.0	0,47,0	7.46e-05	1.37e-04	8.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.07e-03	0.0	0,47,0	7.43e-05	7.46e-05	3.44e-04	47,47,47	0.0	0	0.0	0.0	0.0
2815	0.0	0.04	0.0	0,47,0	5.73e-05	5.16e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.96e-03	0.0	0.0	47,0,0	5.72e-05	2.32e-03	4.00e-05	47,47,47	0.0	0	1.00	0.08	0.92
2828	0.0	0.03	0.0	0,47,0	7.46e-05	1.37e-04	8.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.07e-03	0.0	0,47,0	7.43e-05	3.23e-05	3.14e-04	47,47,47	0.0	0	0.0	0.0	0.0
2891	0.0	0.03	0.0	0,47,0	1.03e-06	3.70e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.93e-04	0.0	0.0	47,0,0	0.0	7.07e-04	1.05e-05	47,47,47	0.0	0	1.00	0.08	0.92
2895	0.0	0.03	0.0	0,47,0	1.96e-06	2.18e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.96e-04	4.90e-05	0.0	47,47,0	1.84e-06	3.54e-04	1.80e-05	47,47,47	0.0	0	1.00	0.08	0.92
3093	0.0	0.04	0.0	0,47,0	6.10e-05	3.56e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.63e-03	0.0	0,47,0	6.09e-05	5.89e-05	5.13e-04	47,47,47	0.0	0	0.0	0.0	0.0
3099	0.0	0.04	0.0	0,47,0	6.10e-05	3.56e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.15e-03	0.0	0,47,0	6.09e-05	5.89e-05	6.23e-04	47,47,47	0.0	0	0.0	0.0	0.0
3101	0.0	0.03	0.0	0,47,0	8.52e-05	1.43e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.15e-03	0.0	0,47,0	8.50e-05	6.42e-05	6.23e-04	47,47,47	0.0	0	0.0	0.0	0.0
3113	0.0	0.03	0.0	0,47,0	8.52e-05	1.43e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.38e-04	1.11e-03	0.0	47,47,0	8.50e-05	7.77e-04	3.67e-04	47,47,47	0.0	0	1.00	0.08	0.92
3125	0.0	0.03	0.0	0,47,0	1.78e-05	6.38e-05	8.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.38e-04	1.01e-03	0.0	47,47,0	1.78e-05	7.77e-04	3.04e-04	47,47,47	0.0	0	1.00	0.08	0.92
3129	0.0	0.03	0.0	0,47,0	4.96e-05	1.00e-04	8.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.22e-03	0.0	0,47,0	4.95e-05	6.00e-05	3.65e-04	47,47,47	0.0	0	0.0	0.0	0.0
3144	0.0	0.03	0.0	0,47,0	4.96e-05	1.00e-04	8.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.22e-03	0.0	0,47,0	4.95e-05	2.61e-05	3.65e-04	47,47,47	0.0	0	0.0	0.0	0.0
3157	0.0	0.04	0.0	0,47,0	6.10e-05	3.56e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.15e-03	0.0	0,47,0	6.09e-05	5.89e-05	6.23e-04	47,47,47	0.0	0	0.0	0.0	0.0
3159	0.0	0.03	0.0	0,47,0	8.52e-05	1.43e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.15e-03	0.0	0,47,0	8.50e-05	6.42e-05	6.23e-04	47,47,47	0.0	0	0.0	0.0	0.0
3171	0.0	0.03	0.0	0,47,0	8.52e-05	1.43e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.38e-04	1.11e-03	0.0	47,47,0	8.50e-05	7.77e-04	3.67e-04	47,47,47	0.0	0	1.00	0.08	0.92
3183	0.0	0.03	0.0	0,47,0	1.78e-05	6.38e-05	8.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.38e-04	8.75e-04	0.0	47,47,0	1.78e-05	7.77e-04	3.04e-04	47,47,47	0.0	0	1.00	0.08	0.92
3187	0.0	0.03	0.0	0,47,0	4.07e-05	4.31e-05	8.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.22e-03	0.0	0,47,0	4.06e-05	6.00e-05	3.65e-04	47,47,47	0.0	0	0.0	0.0	0.0
3203	0.0	0.02	0.0	0,47,0	4.07e-05	2.77e-05	7.33e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.22e-03	0.0	0,47,0	4.06e-05	2.61e-05	3.65e-04	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.96e-03	0.14	0.0		1.09e-04	2.32e-03	0.04		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
44	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
235	0.0	0.04	0.0	0,47,0	4.60e-05	2.04e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	4.58e-05	3.23e-05	5.55e-04	47,47,47	0.0	0	0.0	0.0	0.0
284	0.0	0.04	0.0	0,47,0	4.60e-05	2.04e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	4.58e-05	3.23e-05	5.55e-04	47,47,47	0.0	0	0.0	0.0	0.0
306	0.0	0.08	0.0	0,47,0	6.82e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.92e-05	0.0	0,47,0	5.63e-06	1.18e-06	1.22e-05	47,47,47	0.0	0	0.0	0.0	0.0
312	0.0	0.08	0.0	0,47,0	6.82e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.32e-04	0.0	0,47,0	5.63e-06	1.48e-06	6.71e-05	47,47,47	0.0	0	0.0	0.0	0.0
320	0.0	0.06	0.0	0,47,0	5.31e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



703	0.0	2.32e-04	0.0	0,47,0	4.72e-06	1.48e-06	6.71e-05	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.05	0.0	0,47,0	4.61e-05	2.04e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	4.58e-05	3.23e-05	5.55e-04	47,47,47	0.0	0	0.0	0.0	0.0
731	0.0	0.05	0.0	0,47,0	4.61e-05	2.04e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	4.58e-05	3.23e-05	5.55e-04	47,47,47	0.0	0	0.0	0.0	0.0
745	0.0	0.08	0.0	0,47,0	1.22e-05	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.22e-04	0.0	0,47,0	1.09e-05	1.18e-06	9.14e-05	47,47,47	0.0	0	0.0	0.0	0.0
749	0.0	0.08	0.0	0,47,0	1.22e-05	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.71e-04	0.0	0,47,0	1.09e-05	1.48e-06	1.62e-04	47,47,47	0.0	0	0.0	0.0	0.0
755	0.0	0.06	0.0	0,47,0	5.52e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.71e-04	0.0	0,47,0	5.00e-06	1.48e-06	1.62e-04	47,47,47	0.0	0	0.0	0.0	0.0
1059	0.0	0.07	0.0	0,47,0	4.61e-05	5.92e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.31e-03	0.0	0,47,0	4.57e-05	1.85e-05	3.75e-04	47,47,47	0.0	0	0.0	0.0	0.0
1103	0.0	0.07	0.0	0,47,0	4.61e-05	5.92e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.31e-03	0.0	0,47,0	4.57e-05	1.85e-05	3.75e-04	47,47,47	0.0	0	0.0	0.0	0.0
1125	0.0	0.09	0.0	0,47,0	5.17e-05	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	5.03e-05	1.51e-06	5.26e-04	47,47,47	0.0	0	0.0	0.0	0.0
1131	0.0	0.09	0.0	0,47,0	5.17e-05	2.21e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	5.03e-05	2.99e-06	5.26e-04	47,47,47	0.0	0	0.0	0.0	0.0
1139	0.0	0.06	0.0	0,47,0	5.52e-06	2.21e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.85e-03	0.0	0,47,0	5.00e-06	2.99e-06	5.25e-04	47,47,47	0.0	0	0.0	0.0	0.0
1489	0.0	0.07	0.0	0,47,0	2.22e-04	5.92e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.75e-03	1.31e-03	0.0	47,47,0	2.22e-04	3.24e-03	3.75e-04	47,47,47	0.0	0	1.00	0.08	0.92
1493	0.0	0.01	0.0	0,47,0	2.22e-04	8.32e-06	3.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.70e-03	0.0	0.0	47,0,0	2.22e-04	7.90e-03	2.59e-06	47,47,47	0.0	0	1.00	0.08	0.92
1497	0.0	0.01	0.0	0,47,0	2.46e-04	0.0	4.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.70e-03	0.0	0.0	47,0,0	2.46e-04	7.90e-03	3.14e-06	47,47,47	0.0	0	1.00	0.08	0.92
1503	0.0	0.09	0.0	0,47,0	2.46e-04	1.32e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	2.89e-03	1.86e-03	0.0	47,47,0	2.46e-04	3.40e-03	5.26e-04	47,47,47	0.0	0	1.00	0.08	0.92
1505	0.0	0.09	0.0	0,47,0	7.84e-05	2.21e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	7.78e-05	5.65e-06	5.26e-04	47,47,47	0.0	0	0.0	0.0	0.0
1509	0.0	0.05	0.0	0,47,0	2.83e-06	2.21e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.85e-03	0.0	0,47,0	2.42e-06	5.65e-06	5.25e-04	47,47,47	0.0	0	0.0	0.0	0.0
1619	0.0	0.07	0.0	0,47,0	1.28e-04	5.92e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.31e-03	0.0	0,47,0	1.27e-04	1.62e-05	3.75e-04	47,47,47	0.0	0	0.0	0.0	0.0
2067	0.0	0.05	0.0	0,47,0	2.34e-04	3.52e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.20e-03	0.0	0,47,0	2.34e-04	1.62e-05	3.40e-04	47,47,47	0.0	0	0.0	0.0	0.0
2129	0.0	0.05	0.0	0,47,0	2.44e-04	3.52e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.75e-03	2.00e-03	0.0	47,47,0	2.44e-04	3.24e-03	5.67e-04	47,47,47	0.0	0	1.00	0.08	0.92
2141	0.0	0.02	0.0	0,47,0	2.44e-04	1.18e-05	6.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.70e-03	2.00e-03	0.0	47,47,0	2.44e-04	7.90e-03	5.67e-04	47,47,47	0.0	0	1.00	0.08	0.92
2149	0.0	0.02	0.0	0,47,0	2.46e-04	0.0	7.72e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.70e-03	1.70e-03	0.0	47,47,0	2.46e-04	7.90e-03	4.82e-04	47,47,47	0.0	0	1.00	0.08	0.92
2159	0.0	0.06	0.0	0,47,0	2.46e-04	1.32e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.89e-03	3.74e-04	0.0	47,47,0	2.46e-04	3.40e-03	1.12e-04	47,47,47	0.0	0	1.00	0.08	0.92
2165	0.0	0.06	0.0	0,47,0	1.27e-04	3.39e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-03	1.07e-03	0.0	47,47,0	1.27e-04	1.45e-03	3.08e-04	47,47,47	0.0	0	1.00	0.08	0.92
2173	0.0	0.04	0.0	0,47,0	4.89e-06	3.39e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.22e-04	1.07e-03	0.0	47,47,0	4.73e-06	1.09e-03	3.08e-04	47,47,47	0.0	0	1.00	0.08	0.92
2637	0.0	0.03	0.0	0,47,0	4.89e-06	3.39e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.22e-04	0.0	0.0	47,0,0	4.73e-06	1.09e-03	1.76e-06	47,47,47	0.0	0	1.00	0.08	0.92
2653	0.0	0.04	0.0	0,47,0	1.27e-04	3.39e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-03	0.0	0.0	47,0,0	1.27e-04	1.45e-03	1.76e-06	47,47,47	0.0	0	1.00	0.08	0.92
2778	0.0	0.04	0.0	0,47,0	2.16e-04	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-03	3.74e-04	0.0	47,47,0	2.16e-04	1.45e-03	1.12e-04	47,47,47	0.0	0	1.00	0.08	0.92
2786	0.0	0.02	0.0	0,47,0	2.16e-04	0.0	7.72e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.70e-03	0.0	0,47,0	2.16e-04	7.11e-06	4.82e-04	47,47,47	0.0	0	0.0	0.0	0.0
2795	0.0	0.02	0.0	0,47,0	2.44e-04	1.18e-05	6.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.00e-03	0.0	0,47,0	2.44e-04	3.65e-06	5.67e-04	47,47,47	0.0	0	0.0	0.0	0.0
2811	0.0	0.03	0.0	0,47,0	2.44e-04	1.18e-05	8.21e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.00e-03	0.0	0,47,0	2.44e-04	0.0	5.67e-04	47,47,47	0.0	0	0.0	0.0	0.0
2828	0.0	0.03	0.0	0,47,0	2.34e-04	1.06e-05	8.21e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.20e-03	0.0	0,47,0	2.34e-04	0.0	3.40e-04	47,47,47	0.0	0	0.0	0.0	0.0

Nodo V. 127 V. 128 V. 545 V. 129 V. 130 V. 131 V. D.26
 6.70e-03 0.09 0.0 2.46e-04 7.90e-03 0.03 0.0

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
45	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

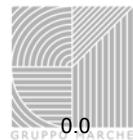


2082	7.38e-04	1.18e-03	0.0	47,47,0	1.49e-05	1.12e-03	5.38e-04	47,47,47	0.0	0	1.00	0.08	0.92
	8.58e-04	6.10e-03	0.0	47,47,0	3.51e-06	1.07e-03	2.20e-03	47,47,47	0.0	0	0.99	0.09	0.91
	7.97e-04	1.76e-03	0.0	47,47,0	3.33e-06	1.07e-03	1.02e-03	47,47,47	0.0	0	1.00	0.08	0.92
2083	8.58e-04	4.74e-03	0.0	47,47,0	1.05e-05	1.07e-03	1.58e-03	47,47,47	0.0	0	0.99	0.09	0.91
	2.12e-03	3.52e-03	0.0	47,47,0	1.05e-05	2.95e-03	1.22e-03	47,47,47	0.0	0	1.00	0.08	0.92
2084	0.0	0.03	0.0	0,47,0	1.22e-05	2.40e-04	8.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.26e-03	3.89e-03	0.0	47,47,0	1.19e-05	5.98e-03	1.44e-03	47,47,47	0.0	0	1.00	0.08	0.92
2085	0.0	0.04	0.0	0,47,0	2.33e-05	2.29e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.61e-03	4.51e-03	0.0	47,47,0	2.22e-05	9.38e-03	2.21e-03	47,47,47	0.0	0	1.00	0.08	0.92
2086	0.0	0.04	0.0	0,47,0	9.02e-05	6.53e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.86e-03	6.08e-03	0.0	47,47,0	9.00e-05	0.01	3.35e-03	47,47,47	0.0	0	1.00	0.08	0.92
2087	0.0	0.04	0.0	0,47,0	9.02e-05	6.53e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.86e-03	6.08e-03	0.0	47,47,0	9.00e-05	0.01	3.35e-03	47,47,47	0.0	0	1.00	0.08	0.92
2840	0.0	0.02	0.0	0,47,0	4.39e-05	2.06e-03	8.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.38e-04	0.0	0.0	47,0,0	4.30e-05	1.15e-03	4.27e-04	47,47,47	0.0	0	1.00	0.08	0.92
2841	0.0	0.02	0.0	0,47,0	4.39e-05	2.08e-03	8.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.38e-04	0.0	0.0	47,0,0	4.30e-05	1.15e-03	4.27e-04	47,47,47	0.0	0	1.00	0.08	0.92
2842	0.0	0.02	0.0	0,47,0	1.55e-05	2.08e-03	8.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.38e-04	0.0	0.0	47,0,0	1.49e-05	9.40e-04	1.61e-04	47,47,47	0.0	0	1.00	0.08	0.92
2843	8.58e-04	5.71e-03	0.0	47,47,0	2.17e-06	1.07e-03	2.20e-03	47,47,47	0.0	0	0.99	0.09	0.91
	7.97e-04	0.0	0.0	47,0,0	2.05e-06	1.07e-03	3.45e-04	47,47,47	0.0	0	1.00	0.08	0.92
2844	8.58e-04	3.57e-03	0.0	47,47,0	2.20e-06	1.07e-03	1.37e-03	47,47,47	0.0	0	0.99	0.09	0.91
	2.12e-03	4.03e-04	0.0	47,47,0	2.21e-06	2.95e-03	7.01e-04	47,47,47	0.0	0	1.00	0.08	0.92
2845	0.0	0.02	0.0	0,47,0	1.22e-05	2.40e-04	5.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.26e-03	1.01e-03	0.0	47,47,0	1.19e-05	5.98e-03	1.26e-03	47,47,47	0.0	0	1.00	0.08	0.92
2846	0.0	0.03	0.0	0,47,0	2.33e-05	2.29e-04	9.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.61e-03	1.99e-03	0.0	47,47,0	2.22e-05	9.38e-03	1.26e-03	47,47,47	0.0	0	1.00	0.08	0.92
2847	0.0	0.03	0.0	0,47,0	2.66e-05	6.53e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.86e-03	2.59e-03	0.0	47,47,0	2.58e-05	0.01	3.35e-03	47,47,47	0.0	0	1.00	0.08	0.92
2848	0.0	0.03	0.0	0,47,0	2.66e-05	6.53e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.86e-03	2.59e-03	0.0	47,47,0	2.58e-05	0.01	3.35e-03	47,47,47	0.0	0	1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	7.86e-03	0.09	0.0		9.02e-05	0.01	0.04		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
47	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7 cm	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
243	0.0	0.03	0.0	0,47,0	1.29e-04	9.26e-06	8.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	1.29e-04	1.04e-05	2.98e-04	47,47,47	0.0	0	0.0	0.0	0.0
285	0.0	0.03	0.0	0,47,0	1.29e-04	9.26e-06	8.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	1.29e-04	1.04e-05	2.98e-04	47,47,47	0.0	0	0.0	0.0	0.0
304	0.0	0.08	0.0	0,47,0	2.65e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.03e-04	0.0	0,47,0	1.37e-06	0.0	2.99e-05	47,47,47	0.0	0	0.0	0.0	0.0
313	0.0	0.08	0.0	0,47,0	2.65e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.42e-04	0.0	0,47,0	1.37e-06	0.0	6.91e-05	47,47,47	0.0	0	0.0	0.0	0.0
321	0.0	0.06	0.0	0,47,0	1.10e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.42e-04	0.0	0,47,0	0.0	0.0	6.91e-05	47,47,47	0.0	0	0.0	0.0	0.0
711	0.0	0.05	0.0	0,47,0	1.29e-04	9.26e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	1.29e-04	1.04e-05	2.98e-04	47,47,47	0.0	0	0.0	0.0	0.0
732	0.0	0.05	0.0	0,47,0	1.29e-04	9.26e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	1.29e-04	1.04e-05	2.98e-04	47,47,47	0.0	0	0.0	0.0	0.0
743	0.0	0.08	0.0	0,47,0	6.11e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.45e-04	0.0	0,47,0	4.84e-06	0.0	9.82e-05	47,47,47	0.0	0	0.0	0.0	0.0
750	0.0	0.08	0.0	0,47,0	6.11e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.77e-04	0.0	0,47,0	4.84e-06	0.0	1.63e-04	47,47,47	0.0	0	0.0	0.0	0.0
756	0.0	0.06	0.0	0,47,0	1.10e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.77e-04	0.0	0,47,0	0.0	0.0	1.63e-04	47,47,47	0.0	0	0.0	0.0	0.0
1067	0.0	0.06	0.0	0,47,0	6.69e-05	6.87e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.18e-04	0.0	0,47,0	6.67e-05	3.69e-06	1.76e-04	47,47,47	0.0	0	0.0	0.0	0.0
1104	0.0	0.06	0.0	0,47,0	6.69e-05	6.87e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.18e-04	0.0	0,47,0	6.67e-05	3.69e-06	1.76e-04	47,47,47	0.0	0	0.0	0.0	0.0
1123	0.0	0.08	0.0	0,47,0	3.19e-05	1.24e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.48e-03	0.0	0,47,0	3.07e-05	4.09e-06	4.21e-04	47,47,47	0.0	0	0.0	0.0	0.0
1132	0.0	0.08	0.0	0,47,0	3.19e-05	1.32e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.52e-03	0.0	0,47,0	3.07e-05	4.09e-06	4.30e-04	47,47,47	0.0	0	0.0	0.0	0.0
1140	0.0	0.06	0.0	0,47,0	0.0	1.32e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



1464	0.0	1.52e-03	0.0	0,47,0	0.0	0.0	4.30e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.06	0.0	0,47,0	8.15e-05	4.44e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.73e-03	6.18e-04	0.0	47,47,0	8.13e-05	2.04e-03	1.76e-04	47,47,47	0.0	0	1.00	0.08	0.92
1490	0.0	0.06	0.0	0,47,0	2.05e-04	4.44e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.23e-03	6.18e-04	0.0	47,47,0	2.05e-04	7.34e-03	1.76e-04	47,47,47	0.0	0	1.00	0.08	0.92
1494	0.0	0.01	0.0	0,47,0	2.05e-04	3.47e-06	3.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.93e-03	0.0	0.0	47,0,0	2.05e-04	0.01	4.72e-06	47,47,47	0.0	0	1.00	0.08	0.92
1498	0.0	0.02	0.0	0,47,0	2.44e-04	1.68e-06	4.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.93e-03	0.0	0.0	47,0,0	2.44e-04	0.01	3.14e-06	47,47,47	0.0	0	1.00	0.08	0.92
1501	0.0	0.08	0.0	0,47,0	2.44e-04	1.68e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	6.14e-03	1.48e-03	0.0	47,47,0	2.44e-04	7.23e-03	4.21e-04	47,47,47	0.0	0	1.00	0.08	0.92
1506	0.0	0.08	0.0	0,47,0	7.41e-05	1.32e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.94e-03	1.52e-03	0.0	47,47,0	7.36e-05	2.29e-03	4.30e-04	47,47,47	0.0	0	1.00	0.08	0.92
1510	0.0	0.05	0.0	0,47,0	0.0	1.32e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.87e-04	1.52e-03	0.0	47,47,0	0.0	2.24e-04	4.30e-04	47,47,47	0.0	0	1.00	0.08	0.92
2075	0.0	0.04	0.0	0,47,0	1.35e-04	8.81e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.73e-03	3.68e-04	0.0	47,47,0	1.35e-04	2.04e-03	1.16e-04	47,47,47	0.0	0	1.00	0.08	0.92
2130	0.0	0.04	0.0	0,47,0	2.27e-04	8.81e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.23e-03	1.05e-03	0.0	47,47,0	2.27e-04	7.34e-03	3.02e-04	47,47,47	0.0	0	1.00	0.08	0.92
2142	0.0	0.02	0.0	0,47,0	2.27e-04	3.47e-06	6.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.93e-03	1.05e-03	0.0	47,47,0	2.27e-04	0.01	3.02e-04	47,47,47	0.0	0	1.00	0.08	0.92
2150	0.0	0.03	0.0	0,47,0	2.44e-04	1.68e-06	7.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.93e-03	7.82e-04	0.0	47,47,0	2.44e-04	0.01	2.21e-04	47,47,47	0.0	0	1.00	0.08	0.92
2157	0.0	0.06	0.0	0,47,0	2.44e-04	1.92e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.14e-03	0.0	0.0	47,0,0	2.44e-04	7.23e-03	5.83e-06	47,47,47	0.0	0	1.00	0.08	0.92
2166	0.0	0.06	0.0	0,47,0	1.34e-04	2.51e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.25e-03	0.0	0.0	47,0,0	1.33e-04	2.65e-03	3.57e-06	47,47,47	0.0	0	1.00	0.08	0.92
2174	0.0	0.04	0.0	0,47,0	6.61e-06	2.51e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.91e-03	0.0	0.0	47,0,0	6.45e-06	2.25e-03	1.58e-06	47,47,47	0.0	0	1.00	0.08	0.92
2638	0.0	0.03	0.0	0,47,0	6.61e-06	2.51e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.91e-03	0.0	0.0	47,0,0	6.45e-06	2.25e-03	1.58e-06	47,47,47	0.0	0	1.00	0.08	0.92
2654	0.0	0.04	0.0	0,47,0	1.34e-04	2.51e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.25e-03	0.0	0.0	47,0,0	1.33e-04	2.65e-03	3.57e-06	47,47,47	0.0	0	1.00	0.08	0.92
2780	0.0	0.04	0.0	0,47,0	2.29e-04	1.92e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.25e-03	0.0	0.0	47,0,0	2.29e-04	2.65e-03	5.83e-06	47,47,47	0.0	0	1.00	0.08	0.92
2787	0.0	0.03	0.0	0,47,0	2.29e-04	1.63e-06	7.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.48e-04	7.82e-04	0.0	47,47,0	2.29e-04	7.66e-04	2.21e-04	47,47,47	0.0	0	1.00	0.08	0.92
2796	0.0	0.02	0.0	0,47,0	2.27e-04	1.63e-06	6.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.05e-03	0.0	0,47,0	2.27e-04	6.16e-06	3.02e-04	47,47,47	0.0	0	0.0	0.0	0.0
2812	0.0	0.02	0.0	0,47,0	2.27e-04	8.81e-06	6.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.05e-03	0.0	0,47,0	2.27e-04	1.30e-05	3.02e-04	47,47,47	0.0	0	0.0	0.0	0.0
2836	0.0	0.02	0.0	0,47,0	1.35e-04	8.81e-06	6.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.68e-04	0.0	0,47,0	1.35e-04	1.30e-05	1.16e-04	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	9.93e-03	0.08	0.0		2.44e-04	0.01	0.03		0.0				

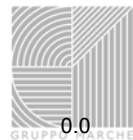
Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
48	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
321	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.15e-04	0.0	0,47,0	0.0	0.0	3.29e-05	47,47,47	0.0	0	0.0	0.0	0.0
328	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.15e-04	0.0	0,47,0	0.0	0.0	3.29e-05	47,47,47	0.0	0	0.0	0.0	0.0
338	0.0	0.05	0.0	0,47,0	0.0	4.29e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.22e-05	0.0	0,47,0	0.0	1.09e-05	3.54e-05	47,47,47	0.0	0	0.0	0.0	0.0
345	0.0	0.05	0.0	0,47,0	0.0	4.41e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.61e-04	0.0	0,47,0	0.0	3.13e-05	7.44e-05	47,47,47	0.0	0	0.0	0.0	0.0
353	0.0	0.04	0.0	0,47,0	1.63e-06	6.70e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.61e-04	0.0	0,47,0	1.36e-06	3.61e-05	7.44e-05	47,47,47	0.0	0	0.0	0.0	0.0
360	0.0	0.05	0.0	0,47,0	1.63e-06	9.58e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.91e-05	8.65e-05	0.0	47,47,0	1.36e-06	3.79e-05	6.04e-05	47,47,47	0.0	0	1.00	0.08	0.92
379	0.0	0.05	0.0	0,47,0	0.0	9.58e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.91e-05	0.0	0.0	47,0,0	0.0	3.79e-05	1.61e-05	47,47,47	0.0	0	1.00	0.08	0.92
389	0.0	0.02	0.0	0,47,0	1.37e-05	6.78e-05	6.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.78e-04	0.0	0,47,0	1.37e-05	3.73e-06	1.10e-04	47,47,47	0.0	0	0.0	0.0	0.0
402	0.0	0.02	0.0	0,47,0	1.37e-05	6.78e-05	6.59e-03	47,47,47	0.0	0	0.0	0.0	0.0



	0.0	3.78e-04	0.0	0,47,0	1.37e-05	3.73e-06	1.10e-04	47,47,47			0.0	0.0	0.0
756	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.46e-04	0.0	0,47,0	0.0	0.0	6.98e-05	47,47,47			0.0	0.0	0.0
761	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.46e-04	0.0	0,47,0	0.0	0.0	6.98e-05	47,47,47			0.0	0.0	0.0
769	0.0	0.05	0.0	0,47,0	0.0	4.71e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.58e-04	0.0	0,47,0	0.0	1.66e-05	5.65e-05	47,47,47			0.0	0.0	0.0
774	0.0	0.05	0.0	0,47,0	0.0	4.41e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.73e-04	0.0	0,47,0	0.0	3.13e-05	1.09e-04	47,47,47			0.0	0.0	0.0
780	0.0	0.04	0.0	0,47,0	3.09e-06	8.98e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.73e-04	0.0	0,47,0	2.82e-06	9.85e-05	1.70e-04	47,47,47			0.0	0.0	0.0
787	0.0	0.05	0.0	0,47,0	3.09e-06	1.45e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.91e-05	2.66e-04	0.0	47,47,0	2.82e-06	9.85e-05	1.70e-04	47,47,47			1.00	0.08	0.92
798	0.0	0.05	0.0	0,47,0	1.38e-06	1.45e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.91e-05	1.05e-04	0.0	47,47,0	0.0	3.79e-05	4.87e-05	47,47,47			1.00	0.08	0.92
808	0.0	0.03	0.0	0,47,0	1.37e-05	6.78e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.38e-05	3.78e-04	0.0	47,47,0	1.37e-05	6.70e-05	1.10e-04	47,47,47			1.00	0.08	0.92
821	0.0	0.03	0.0	0,47,0	1.37e-05	6.78e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.38e-05	3.78e-04	0.0	47,47,0	1.37e-05	6.70e-05	1.10e-04	47,47,47			1.00	0.08	0.92
1140	0.0	0.05	0.0	0,47,0	1.45e-05	1.21e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	1.41e-05	3.68e-06	2.91e-04	47,47,47			0.0	0.0	0.0
1147	0.0	0.05	0.0	0,47,0	1.45e-05	1.21e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	1.41e-05	3.68e-06	2.91e-04	47,47,47			0.0	0.0	0.0
1157	0.0	0.05	0.0	0,47,0	5.21e-06	6.20e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.21e-04	0.0	0,47,0	4.88e-06	1.66e-05	1.88e-04	47,47,47			0.0	0.0	0.0
1164	0.0	0.05	0.0	0,47,0	5.21e-06	5.90e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.27e-04	0.0	0,47,0	4.88e-06	1.66e-05	2.36e-04	47,47,47			0.0	0.0	0.0
1172	0.0	0.04	0.0	0,47,0	7.25e-06	1.49e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.27e-04	0.0	0,47,0	7.07e-06	9.85e-05	2.58e-04	47,47,47			0.0	0.0	0.0
1179	0.0	0.05	0.0	0,47,0	8.91e-06	2.31e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.12e-04	0.0	0,47,0	8.54e-06	9.85e-05	2.58e-04	47,47,47			0.0	0.0	0.0
1198	0.0	0.05	0.0	0,47,0	8.91e-06	2.31e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.31e-04	0.0	0,47,0	8.54e-06	2.88e-05	1.03e-04	47,47,47			0.0	0.0	0.0
1208	0.0	0.05	0.0	0,47,0	1.10e-05	8.29e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.38e-05	0.0	0.0	47,0,0	1.08e-05	6.70e-05	6.76e-06	47,47,47			1.00	0.08	0.92
1221	0.0	0.05	0.0	0,47,0	1.10e-05	8.29e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.38e-05	0.0	0.0	47,0,0	1.08e-05	6.70e-05	6.76e-06	47,47,47			1.00	0.08	0.92
1510	0.0	0.05	0.0	0,47,0	2.19e-05	1.21e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	2.17e-05	3.68e-06	2.91e-04	47,47,47			0.0	0.0	0.0
1513	0.0	0.05	0.0	0,47,0	2.19e-05	3.33e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	2.17e-05	1.51e-05	2.91e-04	47,47,47			0.0	0.0	0.0
1519	0.0	0.05	0.0	0,47,0	1.88e-05	7.79e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.21e-04	0.0	0,47,0	1.85e-05	2.53e-05	1.88e-04	47,47,47			0.0	0.0	0.0
1628	0.0	0.05	0.0	0,47,0	1.88e-05	5.90e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.34e-03	0.0	0,47,0	1.85e-05	2.53e-05	3.85e-04	47,47,47			0.0	0.0	0.0
1630	0.0	0.04	0.0	0,47,0	7.25e-06	2.02e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.11e-03	0.0	0,47,0	7.07e-06	2.24e-04	8.07e-04	47,47,47			0.0	0.0	0.0
1635	0.0	0.06	0.0	0,47,0	9.45e-05	3.16e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.30e-03	0.0	0,47,0	9.40e-05	2.24e-04	8.07e-04	47,47,47			0.0	0.0	0.0
1654	0.0	0.06	0.0	0,47,0	9.45e-05	3.16e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.30e-03	0.0	0,47,0	9.40e-05	9.47e-05	7.18e-04	47,47,47			0.0	0.0	0.0
1662	0.0	0.07	0.0	0,47,0	2.01e-05	4.61e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.78e-05	2.09e-04	0.0	47,47,0	1.94e-05	7.23e-05	1.26e-04	47,47,47			1.00	0.08	0.92
1675	0.0	0.07	0.0	0,47,0	2.01e-05	4.61e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.78e-05	2.09e-04	0.0	47,47,0	1.94e-05	7.23e-05	1.26e-04	47,47,47			1.00	0.08	0.92
2174	0.0	0.04	0.0	0,47,0	2.19e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.73e-04	2.28e-04	0.0	47,47,0	2.17e-05	1.03e-03	6.56e-05	47,47,47			1.00	0.08	0.92
2181	0.0	0.04	0.0	0,47,0	2.19e-05	4.66e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.73e-04	5.60e-04	0.0	47,47,0	2.17e-05	1.03e-03	1.70e-04	47,47,47			1.00	0.08	0.92
2191	0.0	0.04	0.0	0,47,0	3.50e-05	7.79e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.97e-04	5.77e-04	0.0	47,47,0	3.49e-05	5.94e-04	1.77e-04	47,47,47			1.00	0.08	0.92
2198	0.0	0.04	0.0	0,47,0	3.50e-05	8.22e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.97e-04	1.34e-03	0.0	47,47,0	3.49e-05	5.94e-04	3.85e-04	47,47,47			1.00	0.08	0.92
2206	0.0	0.03	0.0	0,47,0	6.92e-06	3.61e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.99e-04	2.11e-03	0.0	47,47,0	6.80e-06	5.26e-04	8.07e-04	47,47,47			1.00	0.08	0.92
2219	0.0	0.06	0.0	0,47,0	1.39e-04	6.67e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.12e-04	2.30e-03	0.0	47,47,0	1.38e-04	5.26e-04	8.07e-04	47,47,47			1.00	0.08	0.92
2264	0.0	0.06	0.0	0,47,0	7.54e-04	6.67e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.69e-03	2.30e-03	0.0	47,47,0	7.53e-04	6.73e-03	7.18e-04	47,47,47			1.00	0.08	0.92
2276	0.0	0.02	0.0	0,47,0	7.54e-04	7.60e-05	5.01e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	47,0,0	7.53e-04	0.02	7.10e-05	47,47,47			1.00	0.08	0.92
2286	0.0	0.07	0.0	0,47,0	3.93e-04	7.74e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	2.09e-04	0.0	47,47,0	3.92e-04	0.02	5.33e-04	47,47,47			1.00	0.08	0.92
2299	0.0	0.07	0.0	0,47,0	3.93e-04	7.74e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.69e-03	2.09e-04	0.0	47,47,0	3.92e-04	5.97e-03	5.33e-04	47,47,47			1.00	0.08	0.92

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2408	0.0	0.04	0.0	0,47,0	3.93e-04	7.74e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.69e-03	0.0	0.0	47,0,0	3.92e-04	5.97e-03	5.33e-04	47,47,47			1.00	0.08	0.92
2453	0.0	0.04	0.0	0,47,0	3.93e-04	7.74e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	47,0,0	3.92e-04	0.02	5.33e-04	47,47,47			1.00	0.08	0.92
2472	0.0	0.02	0.0	0,47,0	7.54e-04	7.60e-05	5.01e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	47,0,0	7.53e-04	0.02	7.10e-05	47,47,47			1.00	0.08	0.92
2492	0.0	0.04	0.0	0,47,0	7.54e-04	6.67e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.69e-03	2.77e-04	0.0	47,47,0	7.53e-04	6.73e-03	5.00e-04	47,47,47			1.00	0.08	0.92
2511	0.0	0.04	0.0	0,47,0	1.39e-04	6.67e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.12e-04	2.77e-04	0.0	47,47,0	1.38e-04	5.26e-04	5.00e-04	47,47,47			1.00	0.08	0.92
2562	0.0	0.03	0.0	0,47,0	6.92e-06	3.61e-04	8.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.99e-04	1.50e-04	0.0	47,47,0	6.80e-06	5.26e-04	4.55e-04	47,47,47			1.00	0.08	0.92
2578	0.0	0.03	0.0	0,47,0	3.50e-05	8.22e-05	9.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.97e-04	0.0	0.0	47,0,0	3.49e-05	5.94e-04	8.24e-06	47,47,47			1.00	0.08	0.92
2598	0.0	0.03	0.0	0,47,0	3.50e-05	5.37e-06	9.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.97e-04	3.89e-05	0.0	47,47,0	3.49e-05	5.94e-04	1.15e-05	47,47,47			1.00	0.08	0.92
2621	0.0	0.03	0.0	0,47,0	1.39e-05	4.66e-06	9.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.73e-04	3.89e-05	0.0	47,47,0	1.38e-05	1.03e-03	1.15e-05	47,47,47			1.00	0.08	0.92
2638	0.0	0.03	0.0	0,47,0	1.39e-05	0.0	9.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.73e-04	0.0	0.0	47,0,0	1.38e-05	1.03e-03	7.55e-06	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	0.07	0.0		7.54e-04	0.02	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
49	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
125	0.0	0.01	0.0	0,47,0	0.0	1.88e-05	3.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.93e-04	0.0	0,47,0	0.0	1.78e-05	7.17e-05	47,47,47			0.0	0.0	0.0
126	0.0	0.01	0.0	0,47,0	0.0	3.13e-05	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.04e-04	0.0	0,47,0	0.0	1.78e-05	7.17e-05	47,47,47			0.0	0.0	0.0
127	0.0	0.01	0.0	0,47,0	0.0	3.13e-05	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.04e-04	0.0	0,47,0	0.0	1.22e-05	6.82e-05	47,47,47			0.0	0.0	0.0
594	0.0	0.01	0.0	0,47,0	0.0	1.88e-05	3.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.57e-05	1.93e-04	0.0	47,47,0	0.0	2.84e-05	7.17e-05	47,47,47			1.00	0.07	0.93
595	0.0	0.01	0.0	0,47,0	0.0	3.13e-05	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.66e-05	2.04e-04	0.0	47,47,0	0.0	2.84e-05	7.17e-05	47,47,47			1.00	0.07	0.93
596	0.0	0.01	0.0	0,47,0	0.0	3.13e-05	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.66e-05	2.04e-04	0.0	47,47,0	0.0	2.23e-05	6.82e-05	47,47,47			1.00	0.07	0.93
952	0.0	9.56e-03	0.0	0,47,0	0.0	1.78e-05	2.99e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.18e-05	0.0	0.0	47,0,0	0.0	7.57e-05	3.50e-05	47,47,47			1.00	0.07	0.93
953	0.0	9.56e-03	0.0	0,47,0	0.0	2.15e-05	2.99e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.18e-05	0.0	0.0	47,0,0	0.0	7.57e-05	3.50e-05	47,47,47			1.00	0.07	0.93
954	0.0	8.39e-03	0.0	0,47,0	0.0	2.15e-05	2.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.31e-05	0.0	0.0	47,0,0	0.0	5.70e-05	2.35e-06	47,47,47			1.00	0.07	0.93
1599	0.0	7.72e-03	0.0	0,47,0	1.23e-06	7.72e-05	2.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.18e-05	7.95e-05	0.0	47,47,0	1.17e-06	7.57e-05	3.50e-05	47,47,47			1.00	0.07	0.93
1600	0.0	7.72e-03	0.0	0,47,0	1.23e-06	7.72e-05	2.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.18e-05	7.95e-05	0.0	47,47,0	1.17e-06	7.57e-05	4.21e-05	47,47,47			1.00	0.07	0.93
1601	0.0	6.52e-03	0.0	0,47,0	0.0	2.85e-05	2.25e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.31e-05	6.95e-05	0.0	47,47,0	0.0	5.70e-05	4.21e-05	47,47,47			1.00	0.07	0.93
1889	0.0	5.44e-03	0.0	0,47,0	3.93e-06	1.36e-04	1.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.12e-04	0.0	0,47,0	3.83e-06	5.27e-05	1.70e-04	47,47,47			0.0	0.0	0.0
1890	0.0	5.44e-03	0.0	0,47,0	3.93e-06	1.36e-04	1.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.12e-04	0.0	0,47,0	3.83e-06	9.41e-05	1.94e-04	47,47,47			0.0	0.0	0.0
1891	0.0	5.08e-03	0.0	0,47,0	1.51e-06	9.78e-05	1.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.61e-04	0.0	0,47,0	1.50e-06	9.41e-05	1.94e-04	47,47,47			0.0	0.0	0.0
2664	0.0	4.46e-03	0.0	0,47,0	3.93e-06	1.36e-04	1.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.12e-04	0.0	0,47,0	3.83e-06	5.27e-05	1.70e-04	47,47,47			0.0	0.0	0.0
2665	0.0	4.46e-03	0.0	0,47,0	3.93e-06	1.36e-04	1.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.12e-04	0.0	0,47,0	3.83e-06	9.41e-05	1.94e-04	47,47,47			0.0	0.0	0.0
2666	0.0	3.99e-03	0.0	0,47,0	1.51e-06	9.78e-05	1.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.61e-04	0.0	0,47,0	1.50e-06	9.41e-05	1.94e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	5.18e-05	0.01	0.0		3.93e-06	1.36e-04	3.83e-03		0.0				

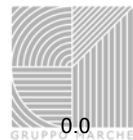
Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore residuo cm	Incoll.	Stato
53	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
320	0.0	0.05	0.0	0,47,0	2.85e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.72e-04	0.0	0,47,0	2.34e-06	1.67e-06	5.01e-05	47,47,47			0.0	0.0	0.0
330	0.0	0.05	0.0	0,47,0	2.85e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.72e-04	0.0	0,47,0	2.34e-06	1.67e-06	5.01e-05	47,47,47			0.0	0.0	0.0
336	0.0	0.05	0.0	0,47,0	0.0	1.90e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.35e-05	0.0	0,47,0	0.0	2.72e-06	2.44e-05	47,47,47			0.0	0.0	0.0
344	0.0	0.05	0.0	0,47,0	0.0	5.12e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.87e-04	0.0	0,47,0	0.0	1.47e-05	5.88e-05	47,47,47			0.0	0.0	0.0
352	0.0	0.05	0.0	0,47,0	0.0	1.97e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.87e-04	0.0	0,47,0	0.0	1.69e-04	1.95e-04	47,47,47			0.0	0.0	0.0
359	0.0	0.05	0.0	0,47,0	0.0	3.38e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.43e-05	9.62e-05	0.0	47,47,0	0.0	1.69e-04	1.95e-04	47,47,47			1.00	0.08	0.92
376	0.0	0.05	0.0	0,47,0	0.0	3.38e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.43e-05	5.96e-05	0.0	47,47,0	0.0	1.02e-04	8.24e-05	47,47,47			1.00	0.08	0.92
388	0.0	0.02	0.0	0,47,0	1.74e-05	7.03e-05	6.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.21e-04	0.0	0,47,0	1.74e-05	3.37e-06	9.40e-05	47,47,47			0.0	0.0	0.0
394	0.0	0.02	0.0	0,47,0	1.74e-05	7.03e-05	6.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.21e-04	0.0	0,47,0	1.74e-05	3.37e-06	9.40e-05	47,47,47			0.0	0.0	0.0
755	0.0	0.05	0.0	0,47,0	2.85e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.76e-04	0.0	0,47,0	2.34e-06	1.67e-06	7.90e-05	47,47,47			0.0	0.0	0.0
763	0.0	0.05	0.0	0,47,0	2.85e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.76e-04	0.0	0,47,0	2.34e-06	1.67e-06	7.90e-05	47,47,47			0.0	0.0	0.0
767	0.0	0.05	0.0	0,47,0	0.0	1.90e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-04	0.0	0,47,0	0.0	3.39e-05	7.91e-05	47,47,47			0.0	0.0	0.0
773	0.0	0.05	0.0	0,47,0	0.0	5.12e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.31e-04	0.0	0,47,0	0.0	3.39e-05	1.27e-04	47,47,47			0.0	0.0	0.0
779	0.0	0.05	0.0	0,47,0	1.53e-06	1.97e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.31e-04	0.0	0,47,0	1.18e-06	1.69e-04	2.37e-04	47,47,47			0.0	0.0	0.0
786	0.0	0.05	0.0	0,47,0	1.53e-06	3.38e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.43e-05	2.50e-04	0.0	47,47,0	1.18e-06	1.69e-04	2.37e-04	47,47,47			1.00	0.08	0.92
795	0.0	0.05	0.0	0,47,0	0.0	3.38e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.43e-05	1.33e-04	0.0	47,47,0	0.0	1.02e-04	8.24e-05	47,47,47			1.00	0.08	0.92
807	0.0	0.03	0.0	0,47,0	1.74e-05	7.03e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.48e-05	3.21e-04	0.0	47,47,0	1.74e-05	6.77e-05	9.40e-05	47,47,47			1.00	0.08	0.92
813	0.0	0.03	0.0	0,47,0	1.74e-05	7.03e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.48e-05	3.21e-04	0.0	47,47,0	1.74e-05	6.77e-05	9.40e-05	47,47,47			1.00	0.08	0.92
1139	0.0	0.05	0.0	0,47,0	7.11e-06	4.98e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	6.72e-06	9.60e-06	3.30e-04	47,47,47			0.0	0.0	0.0
1149	0.0	0.05	0.0	0,47,0	7.11e-06	4.98e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	6.72e-06	9.60e-06	3.30e-04	47,47,47			0.0	0.0	0.0
1155	0.0	0.05	0.0	0,47,0	7.30e-06	1.87e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.79e-04	0.0	0,47,0	7.09e-06	3.39e-05	2.24e-04	47,47,47			0.0	0.0	0.0
1163	0.0	0.05	0.0	0,47,0	7.30e-06	9.47e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.54e-04	0.0	0,47,0	7.09e-06	3.39e-05	2.80e-04	47,47,47			0.0	0.0	0.0
1171	0.0	0.05	0.0	0,47,0	6.05e-06	2.25e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.54e-04	0.0	0,47,0	5.82e-06	1.68e-04	2.80e-04	47,47,47			0.0	0.0	0.0
1178	0.0	0.05	0.0	0,47,0	7.00e-06	3.58e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.23e-05	7.61e-04	0.0	47,47,0	6.63e-06	1.68e-04	2.42e-04	47,47,47			1.00	0.08	0.92
1195	0.0	0.05	0.0	0,47,0	7.00e-06	3.58e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.23e-05	3.07e-04	0.0	47,47,0	6.63e-06	9.02e-05	8.82e-05	47,47,47			1.00	0.08	0.92
1207	0.0	0.05	0.0	0,47,0	1.33e-05	4.22e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.48e-05	0.0	0.0	47,0,0	1.31e-05	6.77e-05	8.80e-06	47,47,47			1.00	0.08	0.92
1213	0.0	0.05	0.0	0,47,0	1.33e-05	4.22e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.48e-05	0.0	0.0	47,0,0	1.31e-05	6.77e-05	8.80e-06	47,47,47			1.00	0.08	0.92
1509	0.0	0.05	0.0	0,47,0	1.74e-05	4.98e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.24e-03	0.0	0,47,0	1.72e-05	1.32e-05	3.59e-04	47,47,47			0.0	0.0	0.0
1515	0.0	0.05	0.0	0,47,0	1.74e-05	4.98e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.60e-03	0.0	0,47,0	1.72e-05	2.96e-05	4.70e-04	47,47,47			0.0	0.0	0.0
1517	0.0	0.05	0.0	0,47,0	1.44e-05	1.96e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.60e-03	0.0	0,47,0	1.43e-05	2.96e-05	4.70e-04	47,47,47			0.0	0.0	0.0
1555	0.0	0.05	0.0	0,47,0	1.44e-05	9.47e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.97e-03	0.0	0,47,0	1.43e-05	4.67e-05	5.68e-04	47,47,47			0.0	0.0	0.0
1576	0.0	0.04	0.0	0,47,0	1.13e-05	2.42e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

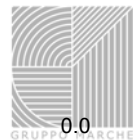


1634	0.0	2.49e-03	0.0	0,47,0	1.12e-05	3.53e-04	1.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.07	0.0	0,47,0	1.12e-04	4.10e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.55e-03	0.0	0,47,0	1.11e-04	3.53e-04	1.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
1651	0.0	0.07	0.0	0,47,0	1.12e-04	4.10e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.55e-03	0.0	0,47,0	1.11e-04	1.60e-04	8.36e-04	47,47,47	0.0	0	0.0	0.0	0.0
1661	0.0	0.07	0.0	0,47,0	2.42e-05	1.21e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.06e-05	1.80e-04	0.0	47,47,0	2.34e-05	4.96e-05	9.89e-05	47,47,47	1.00	0.08	0.92		
1667	0.0	0.07	0.0	0,47,0	2.42e-05	1.21e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.06e-05	1.80e-04	0.0	47,47,0	2.34e-05	4.96e-05	9.89e-05	47,47,47	1.00	0.08	0.92		
2173	0.0	0.04	0.0	0,47,0	1.74e-05	2.95e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.24e-03	0.0	0,47,0	1.72e-05	1.32e-05	3.59e-04	47,47,47	0.0	0	0.0	0.0	0.0
2183	0.0	0.04	0.0	0,47,0	1.74e-05	5.60e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.60e-03	0.0	0,47,0	1.72e-05	2.96e-05	4.70e-04	47,47,47	0.0	0	0.0	0.0	0.0
2189	0.0	0.04	0.0	0,47,0	2.29e-05	1.96e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.33e-05	1.60e-03	0.0	47,47,0	2.28e-05	6.14e-05	4.70e-04	47,47,47	1.00	0.08	0.92		
2197	0.0	0.04	0.0	0,47,0	2.29e-05	1.47e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.23e-04	1.97e-03	0.0	47,47,0	2.28e-05	3.38e-04	5.68e-04	47,47,47	1.00	0.08	0.92		
2205	0.0	0.03	0.0	0,47,0	1.13e-05	5.68e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.23e-04	2.49e-03	0.0	47,47,0	1.12e-05	6.79e-04	1.04e-03	47,47,47	1.00	0.08	0.92		
2218	0.0	0.07	0.0	0,47,0	2.06e-04	1.09e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.71e-04	2.55e-03	0.0	47,47,0	2.05e-04	7.90e-04	1.04e-03	47,47,47	1.00	0.08	0.92		
2261	0.0	0.07	0.0	0,47,0	8.29e-04	1.09e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.83e-03	2.55e-03	0.0	47,47,0	8.27e-04	8.16e-03	8.36e-04	47,47,47	1.00	0.08	0.92		
2275	0.0	0.02	0.0	0,47,0	8.29e-04	3.27e-05	5.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	0.0	0.0	47,0,0	8.27e-04	0.02	1.69e-04	47,47,47	1.00	0.08	0.92		
2285	0.0	0.07	0.0	0,47,0	4.66e-04	2.72e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	1.80e-04	0.0	47,47,0	4.65e-04	0.02	9.89e-05	47,47,47	1.00	0.08	0.92		
2291	0.0	0.07	0.0	0,47,0	4.66e-04	2.72e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.21e-03	1.80e-04	0.0	47,47,0	4.65e-04	6.16e-03	9.89e-05	47,47,47	1.00	0.08	0.92		
2400	0.0	0.04	0.0	0,47,0	4.66e-04	2.72e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.21e-03	0.0	0.0	47,0,0	4.65e-04	6.16e-03	4.87e-05	47,47,47	1.00	0.08	0.92		
2452	0.0	0.04	0.0	0,47,0	4.66e-04	2.72e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	0.0	0.0	47,0,0	4.65e-04	0.02	4.87e-05	47,47,47	1.00	0.08	0.92		
2471	0.0	0.02	0.0	0,47,0	8.29e-04	3.27e-05	5.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.02	0.0	0.0	47,0,0	8.27e-04	0.02	1.69e-04	47,47,47	1.00	0.08	0.92		
2495	0.0	0.05	0.0	0,47,0	8.29e-04	1.09e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.83e-03	4.51e-04	0.0	47,47,0	8.27e-04	8.16e-03	6.81e-04	47,47,47	1.00	0.08	0.92		
2510	0.0	0.05	0.0	0,47,0	2.06e-04	1.09e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.71e-04	5.07e-04	0.0	47,47,0	2.05e-04	7.90e-04	7.81e-04	47,47,47	1.00	0.08	0.92		
2561	0.0	0.03	0.0	0,47,0	4.56e-06	5.68e-04	9.06e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.23e-04	5.07e-04	0.0	47,47,0	4.40e-06	6.79e-04	7.81e-04	47,47,47	1.00	0.08	0.92		
2577	0.0	0.03	0.0	0,47,0	2.29e-05	1.47e-04	9.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.23e-04	1.54e-04	0.0	47,47,0	2.28e-05	3.38e-04	5.12e-05	47,47,47	1.00	0.08	0.92		
2601	0.0	0.03	0.0	0,47,0	2.29e-05	5.60e-06	9.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.33e-05	4.64e-04	0.0	47,47,0	2.28e-05	6.14e-05	1.32e-04	47,47,47	1.00	0.08	0.92		
2619	0.0	0.03	0.0	0,47,0	1.16e-05	5.60e-06	9.43e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.64e-04	0.0	0,47,0	1.15e-05	5.84e-06	1.32e-04	47,47,47	0.0	0	0.0	0.0	0.0
2637	0.0	0.03	0.0	0,47,0	1.16e-05	2.95e-06	9.43e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.73e-05	0.0	0,47,0	1.15e-05	5.84e-06	9.56e-06	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.07	0.0		8.29e-04	0.02	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
56	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
275	0.0	0.04	0.0	0,47,0	4.43e-05	1.80e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.79e-03	0.0	0,47,0	4.41e-05	2.91e-05	5.34e-04	47,47,47	0.0	0	0.0	0.0	0.0
286	0.0	0.04	0.0	0,47,0	4.43e-05	1.80e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.79e-03	0.0	0,47,0	4.41e-05	2.91e-05	5.34e-04	47,47,47	0.0	0	0.0	0.0	0.0
307	0.0	0.08	0.0	0,47,0	6.96e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.94e-05	0.0	0,47,0	5.78e-06	1.33e-06	1.24e-05	47,47,47	0.0	0	0.0	0.0	0.0
315	0.0	0.08	0.0	0,47,0	6.96e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.35e-04	0.0	0,47,0	5.78e-06	1.63e-06	6.79e-05	47,47,47	0.0	0	0.0	0.0	0.0
323	0.0	0.06	0.0	0,47,0	5.44e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.35e-04	0.0	0,47,0	4.82e-06	1.63e-06	6.79e-05	47,47,47	0.0	0	0.0	0.0	0.0
722	0.0	0.05	0.0	0,47,0	4.44e-05	1.80e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



733	0.0	1.79e-03	0.0	0,47,0	4.41e-05	2.91e-05	5.34e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.05	0.0	0,47,0	4.44e-05	1.80e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.79e-03	0.0	0,47,0	4.41e-05	2.91e-05	5.34e-04	47,47,47	0.0	0	0.0	0.0	0.0
746	0.0	0.08	0.0	0,47,0	1.24e-05	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.22e-04	0.0	0,47,0	1.12e-05	1.33e-06	9.14e-05	47,47,47	0.0	0	0.0	0.0	0.0
752	0.0	0.08	0.0	0,47,0	1.24e-05	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.65e-04	0.0	0,47,0	1.12e-05	1.63e-06	1.60e-04	47,47,47	0.0	0	0.0	0.0	0.0
758	0.0	0.06	0.0	0,47,0	5.52e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.65e-04	0.0	0,47,0	4.98e-06	1.63e-06	1.60e-04	47,47,47	0.0	0	0.0	0.0	0.0
1094	0.0	0.06	0.0	0,47,0	4.44e-05	4.14e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.30e-03	0.0	0,47,0	4.40e-05	1.47e-05	3.71e-04	47,47,47	0.0	0	0.0	0.0	0.0
1105	0.0	0.06	0.0	0,47,0	4.44e-05	4.14e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.30e-03	0.0	0,47,0	4.40e-05	1.47e-05	3.71e-04	47,47,47	0.0	0	0.0	0.0	0.0
1126	0.0	0.09	0.0	0,47,0	5.20e-05	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	5.07e-05	2.92e-06	5.27e-04	47,47,47	0.0	0	0.0	0.0	0.0
1134	0.0	0.09	0.0	0,47,0	5.20e-05	2.82e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	5.07e-05	2.93e-06	5.27e-04	47,47,47	0.0	0	0.0	0.0	0.0
1142	0.0	0.06	0.0	0,47,0	5.52e-06	2.82e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.85e-03	0.0	0,47,0	4.98e-06	2.93e-06	5.23e-04	47,47,47	0.0	0	0.0	0.0	0.0
1491	0.0	0.06	0.0	0,47,0	2.21e-04	4.14e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.75e-03	1.30e-03	0.0	47,47,0	2.21e-04	3.25e-03	3.71e-04	47,47,47	0.0	0	1.00	0.08	0.92
1496	0.0	0.01	0.0	0,47,0	2.21e-04	4.16e-06	3.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.72e-03	0.0	0.0	47,0,0	2.21e-04	7.92e-03	3.80e-06	47,47,47	0.0	0	1.00	0.08	0.92
1500	0.0	0.01	0.0	0,47,0	2.46e-04	0.0	4.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.72e-03	0.0	0.0	47,0,0	2.46e-04	7.92e-03	1.17e-06	47,47,47	0.0	0	1.00	0.08	0.92
1504	0.0	0.09	0.0	0,47,0	2.46e-04	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	2.92e-03	1.86e-03	0.0	47,47,0	2.46e-04	3.43e-03	5.27e-04	47,47,47	0.0	0	1.00	0.08	0.92
1508	0.0	0.09	0.0	0,47,0	7.87e-05	2.82e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	7.81e-05	6.11e-06	5.27e-04	47,47,47	0.0	0	0.0	0.0	0.0
1512	0.0	0.05	0.0	0,47,0	2.63e-06	2.82e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.85e-03	0.0	0,47,0	2.20e-06	6.11e-06	5.23e-04	47,47,47	0.0	0	0.0	0.0	0.0
1620	0.0	0.06	0.0	0,47,0	1.31e-04	4.14e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.30e-03	0.0	0,47,0	1.31e-04	6.55e-06	3.71e-04	47,47,47	0.0	0	0.0	0.0	0.0
2117	0.0	0.04	0.0	0,47,0	2.61e-04	2.87e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.12e-03	0.0	0,47,0	2.60e-04	1.19e-05	3.28e-04	47,47,47	0.0	0	0.0	0.0	0.0
2131	0.0	0.04	0.0	0,47,0	2.61e-04	2.87e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.75e-03	2.05e-03	0.0	47,47,0	2.60e-04	3.25e-03	5.80e-04	47,47,47	0.0	0	1.00	0.08	0.92
2144	0.0	0.02	0.0	0,47,0	2.45e-04	5.70e-06	6.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.72e-03	2.05e-03	0.0	47,47,0	2.44e-04	7.92e-03	5.80e-04	47,47,47	0.0	0	1.00	0.08	0.92
2152	0.0	0.02	0.0	0,47,0	2.46e-04	1.17e-06	7.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.72e-03	1.76e-03	0.0	47,47,0	2.46e-04	7.92e-03	5.00e-04	47,47,47	0.0	0	1.00	0.08	0.92
2160	0.0	0.06	0.0	0,47,0	2.46e-04	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.92e-03	3.70e-04	0.0	47,47,0	2.46e-04	3.43e-03	1.08e-04	47,47,47	0.0	0	1.00	0.08	0.92
2168	0.0	0.06	0.0	0,47,0	1.27e-04	3.12e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	1.04e-03	0.0	47,47,0	1.26e-04	1.46e-03	2.98e-04	47,47,47	0.0	0	1.00	0.08	0.92
2176	0.0	0.04	0.0	0,47,0	4.55e-06	3.12e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.19e-04	1.04e-03	0.0	47,47,0	4.39e-06	1.08e-03	2.98e-04	47,47,47	0.0	0	1.00	0.08	0.92
2640	0.0	0.03	0.0	0,47,0	4.55e-06	3.12e-06	9.99e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.19e-04	0.0	0.0	47,0,0	4.39e-06	1.08e-03	2.56e-06	47,47,47	0.0	0	1.00	0.08	0.92
2656	0.0	0.04	0.0	0,47,0	1.27e-04	3.12e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	0.0	0.0	47,0,0	1.26e-04	1.46e-03	2.56e-06	47,47,47	0.0	0	1.00	0.08	0.92
2779	0.0	0.04	0.0	0,47,0	2.15e-04	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	3.70e-04	0.0	47,47,0	2.15e-04	1.46e-03	1.08e-04	47,47,47	0.0	0	1.00	0.08	0.92
2789	0.0	0.02	0.0	0,47,0	2.15e-04	1.17e-06	7.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.76e-03	0.0	0,47,0	2.15e-04	4.11e-06	5.00e-04	47,47,47	0.0	0	0.0	0.0	0.0
2798	0.0	0.02	0.0	0,47,0	2.45e-04	5.70e-06	6.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.05e-03	0.0	0,47,0	2.44e-04	4.78e-06	5.80e-04	47,47,47	0.0	0	0.0	0.0	0.0
2813	0.0	0.02	0.0	0,47,0	2.61e-04	5.70e-06	7.43e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.05e-03	0.0	0,47,0	2.60e-04	1.19e-05	5.80e-04	47,47,47	0.0	0	0.0	0.0	0.0
2878	0.0	0.02	0.0	0,47,0	2.61e-04	1.84e-06	7.43e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.12e-03	0.0	0,47,0	2.60e-04	1.19e-05	3.28e-04	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	6.72e-03	0.09	0.0		2.61e-04	7.92e-03	0.03		0.0				

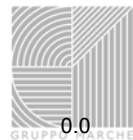
Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
57	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



168	0.0	0.04	0.0	0,47,0	0.0	4.68e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.70e-04	0.0	0,47,0	0.0	1.08e-04	1.54e-04	47,47,47	0.0	0	0.0	0.0	0.0
180	0.0	0.04	0.0	0,47,0	0.0	4.68e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.88e-04	0.0	0,47,0	0.0	1.08e-04	1.54e-04	47,47,47	0.0	0	0.0	0.0	0.0
184	0.0	0.05	0.0	0,47,0	0.0	6.87e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.88e-04	0.0	0,47,0	0.0	4.45e-06	5.51e-05	47,47,47	0.0	0	0.0	0.0	0.0
188	0.0	0.06	0.0	0,47,0	0.0	8.62e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.62e-04	1.55e-04	0.0	47,47,0	0.0	1.96e-04	4.64e-05	47,47,47	0.0	0	1.00	0.08	0.92
193	0.0	0.06	0.0	0,47,0	0.0	8.62e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.73e-04	0.0	0.0	47,0,0	0.0	3.29e-04	1.19e-05	47,47,47	0.0	0	1.00	0.08	0.92
196	0.0	5.17e-03	0.0	0,47,0	0.0	5.44e-06	1.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.69e-04	0.0	0.0	47,0,0	0.0	5.55e-04	2.97e-06	47,47,47	0.0	0	1.00	0.08	0.92
200	0.0	0.11	0.0	0,47,0	1.40e-05	9.63e-05	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	4.69e-04	1.13e-04	0.0	47,47,0	1.21e-05	5.55e-04	5.87e-05	47,47,47	0.0	0	1.00	0.08	0.92
212	0.0	0.11	0.0	0,47,0	1.40e-05	9.63e-05	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.13e-04	0.0	0,47,0	1.21e-05	2.80e-05	5.87e-05	47,47,47	0.0	0	0.0	0.0	0.0
636	0.0	0.04	0.0	0,47,0	2.32e-06	4.68e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.30e-04	0.0	0,47,0	2.21e-06	1.08e-04	1.68e-04	47,47,47	0.0	0	0.0	0.0	0.0
648	0.0	0.04	0.0	0,47,0	2.32e-06	4.68e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.03e-04	0.0	0,47,0	2.21e-06	1.08e-04	1.86e-04	47,47,47	0.0	0	0.0	0.0	0.0
652	0.0	0.05	0.0	0,47,0	0.0	1.80e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.03e-04	0.0	0,47,0	0.0	2.46e-05	1.86e-04	47,47,47	0.0	0	0.0	0.0	0.0
656	0.0	0.06	0.0	0,47,0	0.0	8.62e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.62e-04	5.80e-04	0.0	47,47,0	0.0	1.96e-04	1.72e-04	47,47,47	0.0	0	1.00	0.08	0.92
661	0.0	0.06	0.0	0,47,0	0.0	8.62e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.73e-04	3.84e-04	0.0	47,47,0	0.0	3.29e-04	1.10e-04	47,47,47	0.0	0	1.00	0.08	0.92
664	0.0	5.17e-03	0.0	0,47,0	0.0	5.44e-06	1.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.69e-04	0.0	0.0	47,0,0	0.0	5.55e-04	2.97e-06	47,47,47	0.0	0	1.00	0.08	0.92
668	0.0	0.13	0.0	0,47,0	1.40e-05	2.83e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	4.69e-04	1.13e-04	0.0	47,47,0	1.21e-05	5.55e-04	5.87e-05	47,47,47	0.0	0	1.00	0.08	0.92
680	0.0	0.13	0.0	0,47,0	1.40e-05	2.83e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	1.46e-04	1.13e-04	0.0	47,47,0	1.21e-05	1.73e-04	5.87e-05	47,47,47	0.0	0	1.00	0.08	0.92
994	0.0	0.04	0.0	0,47,0	7.53e-06	1.33e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-03	0.0	0,47,0	7.42e-06	3.86e-04	7.51e-04	47,47,47	0.0	0	0.0	0.0	0.0
1006	0.0	0.04	0.0	0,47,0	7.53e-06	1.33e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.41e-03	0.0	0,47,0	7.42e-06	3.86e-04	7.51e-04	47,47,47	0.0	0	0.0	0.0	0.0
1010	0.0	0.04	0.0	0,47,0	0.0	3.03e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.41e-03	0.0	0,47,0	0.0	2.46e-05	4.03e-04	47,47,47	0.0	0	0.0	0.0	0.0
1014	0.0	0.06	0.0	0,47,0	7.48e-06	7.56e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.28e-03	0.0	0,47,0	7.08e-06	2.32e-05	3.69e-04	47,47,47	0.0	0	0.0	0.0	0.0
1019	0.0	0.06	0.0	0,47,0	7.48e-06	6.34e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.70e-04	0.0	0,47,0	7.08e-06	2.32e-05	2.93e-04	47,47,47	0.0	0	0.0	0.0	0.0
1024	0.0	0.13	0.0	0,47,0	3.69e-06	2.83e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	2.62e-04	0.0	0.0	47,0,0	0.0	3.74e-04	7.35e-05	47,47,47	0.0	0	1.00	0.08	0.92
1036	0.0	0.13	0.0	0,47,0	3.69e-06	2.83e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	2.62e-04	0.0	0.0	47,0,0	0.0	3.74e-04	7.35e-05	47,47,47	0.0	0	1.00	0.08	0.92
1415	0.0	0.04	0.0	0,47,0	7.53e-06	1.33e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.40e-03	0.0	0,47,0	7.42e-06	3.86e-04	7.51e-04	47,47,47	0.0	0	0.0	0.0	0.0
1425	0.0	0.04	0.0	0,47,0	7.53e-06	1.33e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.41e-03	0.0	0,47,0	7.42e-06	3.86e-04	7.51e-04	47,47,47	0.0	0	0.0	0.0	0.0
1427	0.0	0.04	0.0	0,47,0	0.0	3.03e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.41e-03	0.0	0,47,0	0.0	1.87e-05	4.03e-04	47,47,47	0.0	0	0.0	0.0	0.0
1429	0.0	0.06	0.0	0,47,0	1.35e-05	7.56e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.28e-03	0.0	0,47,0	1.33e-05	2.32e-05	3.69e-04	47,47,47	0.0	0	0.0	0.0	0.0
1431	0.0	0.06	0.0	0,47,0	1.05e-04	1.21e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.70e-04	0.0	0,47,0	1.05e-04	2.32e-05	2.93e-04	47,47,47	0.0	0	0.0	0.0	0.0
1433	0.0	0.02	0.0	0,47,0	1.05e-04	1.91e-05	7.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.06e-04	0.0	0,47,0	1.05e-04	5.23e-05	2.01e-04	47,47,47	0.0	0	0.0	0.0	0.0
1434	0.0	7.09e-03	0.0	0,47,0	1.67e-05	7.57e-05	2.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.48e-04	0.0	0,47,0	1.66e-05	8.49e-05	1.67e-04	47,47,47	0.0	0	0.0	0.0	0.0
1437	0.0	0.12	0.0	0,47,0	2.33e-05	2.65e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	2.62e-04	1.25e-03	0.0	47,47,0	2.31e-05	3.74e-04	4.22e-04	47,47,47	0.0	0	1.00	0.08	0.92
1610	0.0	0.12	0.0	0,47,0	2.33e-05	2.65e-04	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	2.62e-04	1.25e-03	0.0	47,47,0	2.31e-05	3.74e-04	4.22e-04	47,47,47	0.0	0	1.00	0.08	0.92
1614	0.0	8.98e-03	0.0	0,47,0	1.66e-05	1.51e-04	2.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.02e-03	0.0	0,47,0	1.65e-05	1.36e-04	4.07e-04	47,47,47	0.0	0	0.0	0.0	0.0
1616	0.0	0.01	0.0	0,47,0	7.30e-05	4.95e-05	3.07e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.32e-03	0.0	0,47,0	7.30e-05	2.23e-04	8.31e-04	47,47,47	0.0	0	0.0	0.0	0.0
1620	0.0	0.01	0.0	0,47,0	7.30e-05	2.91e-05	3.07e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.32e-03	0.0	0,47,0	7.30e-05	2.23e-04	8.31e-04	47,47,47	0.0	0	0.0	0.0	0.0
1938	0.0	0.03	0.0	0,47,0	1.55e-06	1.29e-04	8.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.17e-04	1.40e-03	0.0	47,47,0	1.45e-06	5.35e-04	4.14e-04	47,47,47	0.0	0	1.00	0.08	0.92
1956	0.0	0.03	0.0	0,47,0	1.55e-06	1.29e-04	8.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.64e-04	1.40e-03	0.0	47,47,0	1.45e-06	7.20e-04	4.14e-04	47,47,47	0.0	0	1.00	0.08	0.92

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



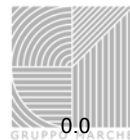
3215	0.0	1.11e-03	0.0	0,47,0	4.12e-05	9.90e-05	3.60e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.01	0.0	0,47,0	4.12e-05	2.25e-05	3.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.11e-03	0.0	0,47,0	4.12e-05	7.66e-05	3.60e-04	47,47,47			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	2.63e-03	0.13	0.0	1.05e-04	3.22e-03	0.04	0.0

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
58	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
323	0.0	0.06	0.0	0,47,0	2.96e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.68e-04	0.0	0,47,0	2.39e-06	1.85e-06	4.92e-05	47,47,47			0.0	0.0	0.0
329	0.0	0.06	0.0	0,47,0	2.96e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.68e-04	0.0	0,47,0	2.39e-06	1.85e-06	4.92e-05	47,47,47			0.0	0.0	0.0
339	0.0	0.05	0.0	0,47,0	0.0	2.29e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.06e-05	0.0	0,47,0	0.0	3.42e-06	2.08e-05	47,47,47			0.0	0.0	0.0
347	0.0	0.05	0.0	0,47,0	0.0	5.44e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.93e-04	0.0	0,47,0	0.0	1.18e-05	5.72e-05	47,47,47			0.0	0.0	0.0
355	0.0	0.05	0.0	0,47,0	0.0	2.31e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.93e-04	0.0	0,47,0	0.0	2.03e-04	2.33e-04	47,47,47			0.0	0.0	0.0
372	0.0	0.05	0.0	0,47,0	0.0	4.02e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.83e-05	1.10e-04	0.0	47,47,0	0.0	2.03e-04	2.33e-04	47,47,47			1.00	0.08	0.92
378	0.0	0.05	0.0	0,47,0	0.0	4.02e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.83e-05	8.28e-05	0.0	47,47,0	0.0	1.13e-04	1.09e-04	47,47,47			1.00	0.08	0.92
391	0.0	0.02	0.0	0,47,0	1.79e-05	6.89e-05	5.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.13e-04	0.0	0,47,0	1.78e-05	1.28e-06	8.95e-05	47,47,47			0.0	0.0	0.0
419	0.0	0.02	0.0	0,47,0	1.79e-05	6.89e-05	5.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.13e-04	0.0	0,47,0	1.78e-05	1.28e-06	8.95e-05	47,47,47			0.0	0.0	0.0
758	0.0	0.06	0.0	0,47,0	2.96e-06	1.25e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.60e-04	0.0	0,47,0	2.39e-06	1.85e-06	7.48e-05	47,47,47			0.0	0.0	0.0
762	0.0	0.06	0.0	0,47,0	2.96e-06	1.25e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.60e-04	0.0	0,47,0	2.39e-06	1.85e-06	7.48e-05	47,47,47			0.0	0.0	0.0
770	0.0	0.05	0.0	0,47,0	1.23e-06	2.29e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.78e-04	0.0	0,47,0	0.0	3.76e-05	8.02e-05	47,47,47			0.0	0.0	0.0
776	0.0	0.05	0.0	0,47,0	1.23e-06	5.44e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.43e-04	0.0	0,47,0	0.0	3.76e-05	1.31e-04	47,47,47			0.0	0.0	0.0
782	0.0	0.05	0.0	0,47,0	1.10e-06	2.31e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.43e-04	0.0	0,47,0	0.0	2.03e-04	2.58e-04	47,47,47			0.0	0.0	0.0
791	0.0	0.05	0.0	0,47,0	1.10e-06	4.02e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.83e-05	2.64e-04	0.0	47,47,0	0.0	2.03e-04	2.58e-04	47,47,47			1.00	0.08	0.92
797	0.0	0.05	0.0	0,47,0	0.0	4.02e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.83e-05	1.47e-04	0.0	47,47,0	0.0	1.13e-04	1.09e-04	47,47,47			1.00	0.08	0.92
810	0.0	0.03	0.0	0,47,0	1.79e-05	6.89e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.49e-05	3.13e-04	0.0	47,47,0	1.78e-05	6.82e-05	8.95e-05	47,47,47			1.00	0.08	0.92
838	0.0	0.03	0.0	0,47,0	1.79e-05	6.89e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.49e-05	3.13e-04	0.0	47,47,0	1.78e-05	6.82e-05	8.95e-05	47,47,47			1.00	0.08	0.92
1142	0.0	0.05	0.0	0,47,0	7.99e-06	5.47e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.12e-03	0.0	0,47,0	7.55e-06	1.15e-05	3.27e-04	47,47,47			0.0	0.0	0.0
1148	0.0	0.05	0.0	0,47,0	7.99e-06	5.47e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.12e-03	0.0	0,47,0	7.55e-06	1.15e-05	3.27e-04	47,47,47			0.0	0.0	0.0
1158	0.0	0.05	0.0	0,47,0	9.62e-06	2.19e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.99e-04	0.0	0,47,0	9.38e-06	3.76e-05	2.27e-04	47,47,47			0.0	0.0	0.0
1166	0.0	0.05	0.0	0,47,0	9.62e-06	1.04e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.83e-04	0.0	0,47,0	9.38e-06	3.76e-05	2.89e-04	47,47,47			0.0	0.0	0.0
1174	0.0	0.05	0.0	0,47,0	5.25e-06	2.43e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.83e-04	0.0	0,47,0	5.01e-06	1.85e-04	2.89e-04	47,47,47			0.0	0.0	0.0
1191	0.0	0.05	0.0	0,47,0	6.74e-06	3.87e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.16e-05	7.80e-04	0.0	47,47,0	6.36e-06	1.85e-04	2.58e-04	47,47,47			1.00	0.08	0.92
1197	0.0	0.05	0.0	0,47,0	6.74e-06	3.87e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.16e-05	3.07e-04	0.0	47,47,0	6.36e-06	1.06e-04	8.79e-05	47,47,47			1.00	0.08	0.92
1210	0.0	0.05	0.0	0,47,0	1.36e-05	4.18e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.49e-05	0.0	0.0	47,0,0	1.34e-05	6.82e-05	9.82e-06	47,47,47			1.00	0.08	0.92
1238	0.0	0.05	0.0	0,47,0	1.36e-05	4.18e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.49e-05	0.0	0.0	47,0,0	1.34e-05	6.82e-05	9.82e-06	47,47,47			1.00	0.08	0.92
1512	0.0	0.05	0.0	0,47,0	2.09e-05	5.47e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	2.06e-05	1.48e-05	3.31e-04	47,47,47			0.0	0.0	0.0
1514	0.0	0.05	0.0	0,47,0	2.09e-05	5.47e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO

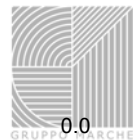


1520	0.0	1.53e-03	0.0	0,47,0	2.06e-05	3.21e-05	4.50e-04	47,47,47			0.0	0.0	0.0	0.0	0.0
	0.0	0.05	0.0	0,47,0	2.00e-05	2.20e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.0	1.53e-03	0.0	0,47,0	1.98e-05	3.21e-05	4.50e-04	47,47,47			0.0	0.0	0.0	0.0	0.0
1552	0.0	0.05	0.0	0,47,0	2.00e-05	1.04e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.0	1.97e-03	0.0	0,47,0	1.98e-05	5.16e-05	5.67e-04	47,47,47			0.0	0.0	0.0	0.0	0.0
1574	0.0	0.04	0.0	0,47,0	1.02e-05	2.51e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.0	2.48e-03	0.0	0,47,0	1.01e-05	3.84e-04	1.06e-03	47,47,47			0.0	0.0	0.0	0.0	0.0
1647	0.0	0.07	0.0	0,47,0	1.12e-04	4.28e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.0	2.56e-03	0.0	0,47,0	1.11e-04	3.84e-04	1.06e-03	47,47,47			0.0	0.0	0.0	0.0	0.0
1653	0.0	0.07	0.0	0,47,0	1.12e-04	4.28e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.0	2.56e-03	0.0	0,47,0	1.11e-04	1.79e-04	8.53e-04	47,47,47			0.0	0.0	0.0	0.0	0.0
1664	0.0	0.07	0.0	0,47,0	2.46e-05	1.22e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	2.00e-05	1.83e-04	0.0	47,47,0	2.38e-05	5.37e-05	1.04e-04	47,47,47			1.00	0.08	0.92		
1692	0.0	0.07	0.0	0,47,0	2.46e-05	1.22e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	2.00e-05	1.83e-04	0.0	47,47,0	2.38e-05	5.37e-05	1.04e-04	47,47,47			1.00	0.08	0.92		
2176	0.0	0.04	0.0	0,47,0	2.09e-05	3.53e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	2.06e-05	1.14e-03	0.0	47,47,0	2.06e-05	2.75e-05	3.31e-04	47,47,47			1.00	0.08	0.92		
2182	0.0	0.04	0.0	0,47,0	2.09e-05	7.16e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	2.06e-05	1.53e-03	0.0	47,47,0	2.06e-05	3.21e-05	4.50e-04	47,47,47			1.00	0.08	0.92		
2192	0.0	0.04	0.0	0,47,0	3.37e-05	2.20e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	9.17e-05	1.53e-03	0.0	47,47,0	3.35e-05	1.37e-04	4.50e-04	47,47,47			1.00	0.08	0.92		
2200	0.0	0.04	0.0	0,47,0	3.37e-05	1.63e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	9.17e-05	1.97e-03	0.0	47,47,0	3.35e-05	1.74e-04	5.67e-04	47,47,47			1.00	0.08	0.92		
2208	0.0	0.03	0.0	0,47,0	1.02e-05	6.09e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	9.05e-05	2.48e-03	0.0	47,47,0	1.01e-05	7.29e-04	1.06e-03	47,47,47			1.00	0.08	0.92		
2251	0.0	0.07	0.0	0,47,0	2.06e-04	1.17e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	7.91e-04	2.56e-03	0.0	47,47,0	2.05e-04	1.18e-03	1.06e-03	47,47,47			1.00	0.08	0.92		
2263	0.0	0.07	0.0	0,47,0	8.25e-04	1.17e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	6.95e-03	2.56e-03	0.0	47,47,0	8.24e-04	8.31e-03	8.53e-04	47,47,47			1.00	0.08	0.92		
2278	0.0	0.02	0.0	0,47,0	8.25e-04	3.38e-05	5.06e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.02	0.0	0.0	47,0,0	8.24e-04	0.02	1.85e-04	47,47,47			1.00	0.08	0.92		
2288	0.0	0.07	0.0	0,47,0	4.65e-04	2.79e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.02	1.83e-04	0.0	47,47,0	4.64e-04	0.02	1.04e-04	47,47,47			1.00	0.08	0.92		
2333	0.0	0.07	0.0	0,47,0	4.65e-04	2.79e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	5.20e-03	1.83e-04	0.0	47,47,0	4.64e-04	6.15e-03	1.04e-04	47,47,47			1.00	0.08	0.92		
2442	0.0	0.04	0.0	0,47,0	4.65e-04	2.79e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	5.20e-03	0.0	0.0	47,0,0	4.64e-04	6.15e-03	3.63e-05	47,47,47			1.00	0.08	0.92		
2455	0.0	0.04	0.0	0,47,0	4.65e-04	2.79e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.02	0.0	0.0	47,0,0	4.64e-04	0.02	3.63e-05	47,47,47			1.00	0.08	0.92		
2474	0.0	0.02	0.0	0,47,0	8.25e-04	3.38e-05	5.06e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	0.02	0.0	0.0	47,0,0	8.24e-04	0.02	1.85e-04	47,47,47			1.00	0.08	0.92		
2497	0.0	0.05	0.0	0,47,0	8.25e-04	1.17e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	6.95e-03	3.09e-04	0.0	47,47,0	8.24e-04	8.31e-03	6.85e-04	47,47,47			1.00	0.08	0.92		
2543	0.0	0.05	0.0	0,47,0	2.06e-04	1.17e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	7.91e-04	4.34e-04	0.0	47,47,0	2.05e-04	1.18e-03	8.04e-04	47,47,47			1.00	0.08	0.92		
2564	0.0	0.03	0.0	0,47,0	6.01e-06	6.09e-04	9.12e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	9.05e-05	4.34e-04	0.0	47,47,0	5.83e-06	7.29e-04	8.04e-04	47,47,47			1.00	0.08	0.92		
2580	0.0	0.03	0.0	0,47,0	3.37e-05	1.63e-04	9.96e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	9.17e-05	2.76e-04	0.0	47,47,0	3.35e-05	1.74e-04	9.79e-05	47,47,47			1.00	0.08	0.92		
2599	0.0	0.03	0.0	0,47,0	3.37e-05	9.23e-06	9.96e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	9.17e-05	4.77e-04	0.0	47,47,0	3.35e-05	1.37e-04	1.36e-04	47,47,47			1.00	0.08	0.92		
2622	0.0	0.03	0.0	0,47,0	1.61e-05	7.16e-06	9.84e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	2.06e-05	4.77e-04	0.0	47,47,0	1.60e-05	2.75e-05	1.36e-04	47,47,47			1.00	0.08	0.92		
2640	0.0	0.03	0.0	0,47,0	1.61e-05	3.53e-06	9.84e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0	0.0
	2.06e-05	0.0	0.0	47,0,0	1.60e-05	2.75e-05	4.10e-06	47,47,47			1.00	0.08	0.92		
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26						
	0.02	0.07	0.0		8.25e-04	0.02	0.02		0.0						

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
59	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
283	0.0	5.08e-03	0.0	0,47,0	0.0	1.47e-06	1.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.33e-04	0.0	0,47,0	0.0	5.23e-06	1.55e-04	47,47,47			0.0	0.0	0.0
291	0.0	0.01	0.0	0,47,0	0.0	4.11e-06	4.36e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.33e-04	0.0	0,47,0	0.0	5.30e-06	1.55e-04	47,47,47			0.0	0.0	0.0
295	0.0	0.01	0.0	0,47,0	0.0	6.11e-06	4.36e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO

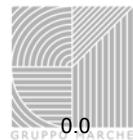


2628	0.0	8.31e-03	0.0	0,47,0	0.0	0.0	2.58e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	9.97e-05	0.0	0,47,0	0.0	2.22e-06	3.00e-05	47,47,47			0.0	0.0	0.0	0.0
2644	0.0	8.31e-03	0.0	0,47,0	0.0	0.0	2.58e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	9.97e-05	0.0	0,47,0	0.0	2.22e-06	3.00e-05	47,47,47			0.0	0.0	0.0	0.0
2661	0.0	8.25e-03	0.0	0,47,0	0.0	1.63e-06	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.49e-05	5.17e-05	0.0	47,47,0	0.0	3.51e-05	1.58e-05	47,47,47			1.00	0.07	0.93	0.0
2785	0.0	8.28e-03	0.0	0,47,0	0.0	5.23e-06	2.57e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.49e-05	2.72e-05	0.0	47,47,0	0.0	3.51e-05	1.31e-05	47,47,47			1.00	0.07	0.93	0.0
2794	0.0	8.28e-03	0.0	0,47,0	0.0	5.23e-06	2.57e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.08e-04	2.72e-05	0.0	47,47,0	0.0	2.05e-04	2.62e-05	47,47,47			1.00	0.07	0.93	0.0
2802	0.0	7.10e-03	0.0	0,47,0	0.0	3.11e-05	2.39e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	3.01e-04	1.22e-04	0.0	47,47,0	0.0	6.08e-04	4.28e-05	47,47,47			1.00	0.07	0.93	0.0
2808	0.0	6.94e-03	0.0	0,47,0	0.0	1.42e-04	2.37e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	3.01e-04	1.69e-04	0.0	47,47,0	0.0	6.08e-04	2.11e-04	47,47,47			1.00	0.07	0.93	0.0
2887	0.0	5.54e-03	0.0	0,47,0	0.0	1.42e-04	2.04e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.27e-04	1.69e-04	0.0	47,47,0	0.0	3.59e-04	2.11e-04	47,47,47			1.00	0.07	0.93	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	3.01e-04	0.01	0.0		1.22e-06	6.08e-04	4.36e-03		0.0					

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
60	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
327	0.0	0.01	0.0	0,47,0	0.0	8.30e-06	3.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.41e-06	0.0	0,47,0	0.0	4.72e-06	6.66e-06	47,47,47			0.0	0.0	0.0
335	0.0	0.01	0.0	0,47,0	0.0	8.30e-06	3.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.30e-05	0.0	0,47,0	0.0	4.96e-06	6.80e-06	47,47,47			0.0	0.0	0.0
343	0.0	0.01	0.0	0,47,0	0.0	1.53e-05	3.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.34e-05	0.0	0,47,0	0.0	4.96e-06	7.75e-06	47,47,47			0.0	0.0	0.0
351	0.0	9.64e-03	0.0	0,47,0	0.0	6.85e-05	3.38e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.14e-05	3.52e-05	0.0	47,47,0	0.0	5.73e-05	6.31e-05	47,47,47			1.00	0.07	0.93
375	0.0	9.91e-03	0.0	0,47,0	0.0	7.11e-05	3.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.14e-05	3.80e-05	0.0	47,47,0	0.0	8.08e-05	8.72e-05	47,47,47			1.00	0.07	0.93
381	0.0	0.01	0.0	0,47,0	0.0	7.11e-05	3.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.77e-05	3.80e-05	0.0	47,47,0	0.0	8.08e-05	8.72e-05	47,47,47			1.00	0.07	0.93
383	0.0	0.01	0.0	0,47,0	0.0	1.69e-05	3.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.77e-05	4.91e-04	0.0	47,47,0	0.0	7.17e-05	1.67e-04	47,47,47			1.00	0.07	0.93
421	0.0	4.70e-03	0.0	0,47,0	0.0	1.69e-05	1.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.91e-04	0.0	0,47,0	0.0	3.28e-05	1.67e-04	47,47,47			0.0	0.0	0.0
760	0.0	0.01	0.0	0,47,0	0.0	8.30e-06	3.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.09e-05	0.0	0,47,0	0.0	6.36e-06	1.36e-05	47,47,47			0.0	0.0	0.0
766	0.0	0.01	0.0	0,47,0	0.0	1.03e-05	3.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.09e-05	0.0	0,47,0	0.0	1.08e-05	1.63e-05	47,47,47			0.0	0.0	0.0
772	0.0	0.01	0.0	0,47,0	0.0	1.53e-05	3.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.59e-05	0.0	0,47,0	0.0	3.62e-05	1.77e-05	47,47,47			0.0	0.0	0.0
778	0.0	9.64e-03	0.0	0,47,0	0.0	6.85e-05	3.38e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.75e-05	6.97e-05	0.0	47,47,0	0.0	9.51e-05	7.42e-05	47,47,47			1.00	0.07	0.93
794	0.0	9.91e-03	0.0	0,47,0	0.0	7.11e-05	3.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.06e-05	6.97e-05	0.0	47,47,0	0.0	1.36e-04	8.72e-05	47,47,47			1.00	0.07	0.93
800	0.0	0.01	0.0	0,47,0	0.0	7.11e-05	3.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.06e-05	5.38e-05	0.0	47,47,0	0.0	1.56e-04	8.72e-05	47,47,47			1.00	0.07	0.93
802	0.0	0.01	0.0	0,47,0	0.0	4.39e-05	3.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.39e-05	4.91e-04	0.0	47,47,0	0.0	1.56e-04	1.67e-04	47,47,47			1.00	0.07	0.93
840	0.0	6.97e-03	0.0	0,47,0	0.0	4.39e-05	2.19e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.91e-04	0.0	0,47,0	0.0	3.28e-05	1.67e-04	47,47,47			0.0	0.0	0.0
1146	0.0	0.01	0.0	0,47,0	0.0	5.31e-06	3.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.99e-05	0.0	0,47,0	0.0	6.36e-06	2.56e-05	47,47,47			0.0	0.0	0.0
1154	0.0	0.01	0.0	0,47,0	0.0	1.03e-05	3.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.99e-05	0.0	0,47,0	0.0	2.02e-05	2.56e-05	47,47,47			0.0	0.0	0.0
1162	0.0	0.01	0.0	0,47,0	0.0	5.46e-05	3.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.95e-05	0.0	0,47,0	0.0	3.62e-05	2.99e-05	47,47,47			0.0	0.0	0.0
1170	0.0	9.24e-03	0.0	0,47,0	0.0	5.46e-05	2.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.75e-05	6.97e-05	0.0	47,47,0	0.0	9.51e-05	7.42e-05	47,47,47			1.00	0.07	0.93
1194	0.0	8.70e-03	0.0	0,47,0	0.0	4.48e-05	3.00e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.06e-05	6.97e-05	0.0	47,47,0	0.0	1.36e-04	8.45e-05	47,47,47			1.00	0.07	0.93
1200	0.0	8.94e-03	0.0	0,47,0	0.0	8.47e-05	3.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.38e-04	5.38e-05	0.0	47,47,0	0.0	1.68e-04	8.45e-05	47,47,47			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



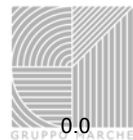
1202	0.0	8.94e-03	0.0	0,47,0	0.0	8.47e-05	3.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.38e-04	1.94e-04	0.0	47,47,0	0.0	1.68e-04	7.92e-05	47,47,47			1.00	0.07	0.93
1240	0.0	7.11e-03	0.0	0,47,0	0.0	5.62e-05	2.25e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.16e-05	1.94e-04	0.0	47,47,0	0.0	7.27e-05	7.92e-05	47,47,47			1.00	0.07	0.93
1578	0.0	9.51e-03	0.0	0,47,0	0.0	5.31e-06	2.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.60e-05	0.0	0,47,0	0.0	1.09e-05	3.37e-05	47,47,47			0.0	0.0	0.0
1583	0.0	9.51e-03	0.0	0,47,0	0.0	1.44e-05	2.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.15e-04	0.0	0,47,0	0.0	4.79e-05	4.76e-05	47,47,47			0.0	0.0	0.0
1586	0.0	9.45e-03	0.0	0,47,0	0.0	5.46e-05	2.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.36e-05	1.32e-04	0.0	47,47,0	0.0	1.32e-04	5.88e-05	47,47,47			1.00	0.07	0.93
1590	0.0	9.24e-03	0.0	0,47,0	0.0	2.56e-04	2.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.36e-05	2.32e-04	0.0	47,47,0	0.0	3.01e-04	2.86e-04	47,47,47			1.00	0.07	0.93
1650	0.0	8.60e-03	0.0	0,47,0	0.0	3.01e-04	2.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.01e-04	2.32e-04	0.0	47,47,0	0.0	3.44e-04	3.19e-04	47,47,47			1.00	0.07	0.93
1693	0.0	8.94e-03	0.0	0,47,0	0.0	3.01e-04	2.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.26e-04	1.98e-04	0.0	47,47,0	0.0	3.44e-04	3.19e-04	47,47,47			1.00	0.07	0.93
1694	0.0	8.94e-03	0.0	0,47,0	0.0	8.47e-05	2.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.26e-04	1.60e-04	0.0	47,47,0	0.0	3.44e-04	1.32e-04	47,47,47			1.00	0.07	0.93
1696	0.0	7.11e-03	0.0	0,47,0	0.0	6.12e-05	2.25e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.28e-05	1.56e-04	0.0	47,47,0	0.0	1.10e-04	1.32e-04	47,47,47			1.00	0.07	0.93
2180	0.0	8.68e-03	0.0	0,47,0	0.0	3.44e-06	2.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.21e-04	0.0	0,47,0	0.0	1.09e-05	3.91e-05	47,47,47			0.0	0.0	0.0
2188	0.0	8.68e-03	0.0	0,47,0	0.0	1.44e-05	2.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.31e-04	0.0	0,47,0	0.0	4.79e-05	4.76e-05	47,47,47			0.0	0.0	0.0
2196	0.0	8.64e-03	0.0	0,47,0	0.0	9.87e-05	2.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.36e-05	2.20e-04	0.0	47,47,0	0.0	1.32e-04	8.73e-05	47,47,47			1.00	0.07	0.93
2204	0.0	8.58e-03	0.0	0,47,0	0.0	4.09e-04	2.69e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.13e-04	2.32e-04	0.0	47,47,0	0.0	4.35e-04	4.64e-04	47,47,47			1.00	0.07	0.93
2260	0.0	8.03e-03	0.0	0,47,0	0.0	5.43e-04	2.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.13e-04	2.42e-04	0.0	47,47,0	0.0	5.25e-04	5.72e-04	47,47,47			1.00	0.07	0.93
2270	0.0	8.33e-03	0.0	0,47,0	0.0	5.43e-04	2.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.26e-04	4.13e-04	0.0	47,47,0	0.0	5.25e-04	5.72e-04	47,47,47			1.00	0.07	0.93
2280	0.0	8.33e-03	0.0	0,47,0	2.18e-06	2.00e-04	2.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.26e-04	4.13e-04	0.0	47,47,0	2.15e-06	3.44e-04	1.89e-04	47,47,47			1.00	0.07	0.93
2335	0.0	6.58e-03	0.0	0,47,0	2.18e-06	8.22e-05	2.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.28e-05	3.50e-04	0.0	47,47,0	2.15e-06	1.10e-04	1.89e-04	47,47,47			1.00	0.07	0.93
2451	0.0	6.19e-03	0.0	0,47,0	2.18e-06	8.22e-05	1.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.50e-04	0.0	0,47,0	2.15e-06	9.93e-05	1.89e-04	47,47,47			0.0	0.0	0.0
2465	0.0	7.54e-03	0.0	0,47,0	2.18e-06	2.00e-04	2.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.13e-04	0.0	0,47,0	2.15e-06	9.93e-05	1.89e-04	47,47,47			0.0	0.0	0.0
2483	0.0	7.54e-03	0.0	0,47,0	0.0	5.43e-04	2.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.13e-04	0.0	0,47,0	0.0	5.25e-04	5.72e-04	47,47,47			0.0	0.0	0.0
2552	0.0	7.31e-03	0.0	0,47,0	0.0	5.43e-04	2.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.13e-04	2.42e-04	0.0	47,47,0	0.0	5.25e-04	5.72e-04	47,47,47			1.00	0.07	0.93
2568	0.0	7.80e-03	0.0	0,47,0	0.0	4.09e-04	2.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.13e-04	2.20e-04	0.0	47,47,0	0.0	4.35e-04	4.64e-04	47,47,47			1.00	0.07	0.93
2586	0.0	7.95e-03	0.0	0,47,0	0.0	9.87e-05	2.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.20e-04	0.0	0,47,0	0.0	4.41e-05	8.73e-05	47,47,47			0.0	0.0	0.0
2609	0.0	8.00e-03	0.0	0,47,0	0.0	3.53e-06	2.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.31e-04	0.0	0,47,0	0.0	6.55e-06	4.07e-05	47,47,47			0.0	0.0	0.0
2628	0.0	8.00e-03	0.0	0,47,0	0.0	0.0	2.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.21e-04	0.0	0,47,0	0.0	6.55e-06	3.91e-05	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	2.26e-04	0.01	0.0		2.18e-06	5.43e-04	3.60e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
63	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
175	0.0	4.90e-03	0.0	0,47,0	6.63e-06	1.16e-04	1.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.18e-03	9.18e-04	0.0	47,47,0	5.13e-06	2.80e-03	1.34e-03	47,47,47			1.00	0.07	0.93
178	0.0	0.01	0.0	0,47,0	6.63e-06	5.04e-04	5.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.18e-03	9.18e-04	0.0	47,47,0	5.13e-06	2.80e-03	1.34e-03	47,47,47			1.00	0.07	0.93
182	0.0	0.02	0.0	0,47,0	7.25e-06	1.01e-03	6.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.07e-04	4.02e-04	0.0	47,47,0	5.93e-06	5.35e-04	5.88e-04	47,47,47			1.00	0.07	0.93
186	0.0	0.02	0.0	0,47,0	7.25e-06	1.38e-03	8.68e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.96e-04	3.74e-04	0.0	47,47,0	5.93e-06	1.12e-03	4.75e-04	47,47,47			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



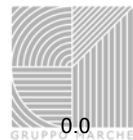
3090	0.0	0.05	0.0	0,47,0	2.79e-04	5.23e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.16e-03	0.0	0.0	47,0,0	2.74e-04	8.36e-03	5.58e-04	47,47,47			1.00	0.07	0.93	0.0
3095	0.0	0.05	0.0	0,47,0	2.79e-04	4.66e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.16e-03	6.18e-03	0.0	47,47,0	2.74e-04	8.36e-03	1.83e-03	47,47,47			1.00	0.07	0.93	0.0
3097	0.0	0.02	0.0	0,47,0	9.59e-05	4.00e-03	9.51e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.18e-03	0.0	0,47,0	9.40e-05	3.85e-03	4.34e-03	47,47,47			0.0	0.0	0.0	0.0
3103	0.0	8.61e-03	0.0	0,47,0	1.26e-04	2.87e-03	5.65e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	5.15e-03	6.48e-03	0.0	47,47,0	1.23e-04	8.55e-03	4.34e-03	47,47,47			1.00	0.07	0.93	0.0
3122	0.0	8.61e-03	0.0	0,47,0	1.26e-04	2.87e-03	5.65e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	5.15e-03	6.48e-03	0.0	47,47,0	1.23e-04	8.55e-03	3.04e-03	47,47,47			1.00	0.07	0.93	0.0
3124	0.0	8.55e-03	0.0	0,47,0	3.63e-06	2.03e-03	4.81e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	4.22e-03	5.30e-03	0.0	47,47,0	3.44e-06	6.99e-03	3.27e-03	47,47,47			1.00	0.07	0.93	0.0
3128	0.0	6.39e-03	0.0	0,47,0	2.02e-05	1.57e-03	2.87e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.03e-03	0.0	0,47,0	1.98e-05	2.83e-03	3.27e-03	47,47,47			0.0	0.0	0.0	0.0
3132	0.0	0.01	0.0	0,47,0	3.54e-05	1.12e-03	3.95e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.03e-03	0.0	0,47,0	3.54e-05	9.73e-04	1.49e-03	47,47,47			0.0	0.0	0.0	0.0
3155	0.0	7.29e-03	0.0	0,47,0	5.60e-05	2.71e-03	4.47e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.18e-03	0.0	0,47,0	5.24e-05	2.43e-04	1.83e-03	47,47,47			0.0	0.0	0.0	0.0
3161	0.0	8.42e-03	0.0	0,47,0	1.26e-04	2.87e-03	5.65e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	4.75e-03	0.0	0,47,0	1.23e-04	1.73e-03	2.11e-03	47,47,47			0.0	0.0	0.0	0.0
3180	0.0	8.42e-03	0.0	0,47,0	1.26e-04	2.87e-03	5.65e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.08e-03	1.91e-03	0.0	47,47,0	1.23e-04	1.73e-03	2.11e-03	47,47,47			1.00	0.07	0.93	0.0
3182	0.0	6.56e-03	0.0	0,47,0	3.63e-06	1.43e-03	3.55e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.08e-03	9.52e-04	0.0	47,47,0	3.44e-06	1.69e-03	8.37e-04	47,47,47			1.00	0.07	0.93	0.0
3186	0.0	5.26e-03	0.0	0,47,0	1.46e-05	2.41e-04	1.81e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.28e-03	0.0	0,47,0	1.44e-05	6.14e-04	8.37e-04	47,47,47			0.0	0.0	0.0	0.0
3190	0.0	8.08e-03	0.0	0,47,0	1.59e-05	1.49e-04	2.68e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.28e-03	0.0	0,47,0	1.52e-05	3.22e-04	5.10e-04	47,47,47			0.0	0.0	0.0	0.0
3222	0.0	8.08e-03	0.0	0,47,0	1.59e-05	1.49e-04	2.68e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	7.26e-04	0.0	0,47,0	1.52e-05	3.22e-04	5.10e-04	47,47,47			0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.02	0.07	0.0		2.79e-04	0.04	0.08		0.0					

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
64	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
240	0.0	0.02	0.0	0,47,0	0.0	7.21e-04	8.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.52e-04	0.0	0,47,0	0.0	9.43e-05	1.83e-04	47,47,47			0.0	0.0	0.0
241	0.0	0.03	0.0	0,47,0	1.45e-06	8.26e-04	9.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.63e-04	0.0	0,47,0	1.24e-06	2.37e-04	3.29e-04	47,47,47			0.0	0.0	0.0
242	0.0	0.05	0.0	0,47,0	9.46e-06	4.40e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.24e-05	4.63e-04	0.0	47,47,0	6.43e-06	1.77e-03	1.76e-03	47,47,47			1.00	0.08	0.92
243	0.0	0.06	0.0	0,47,0	9.46e-06	4.74e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	5.92e-04	1.84e-04	0.0	47,47,0	6.43e-06	2.66e-03	2.26e-03	47,47,47			1.00	0.08	0.92
244	0.0	0.06	0.0	0,47,0	6.91e-06	4.74e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	5.92e-04	1.84e-04	0.0	47,47,0	0.0	2.66e-03	2.26e-03	47,47,47			1.00	0.08	0.92
245	0.0	0.04	0.0	0,47,0	2.62e-06	1.02e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-04	0.0	0,47,0	2.19e-06	1.10e-04	1.39e-04	47,47,47			0.0	0.0	0.0
246	0.0	0.04	0.0	0,47,0	2.62e-06	1.02e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-04	0.0	0,47,0	2.19e-06	1.10e-04	1.39e-04	47,47,47			0.0	0.0	0.0
422	0.0	0.04	0.0	0,47,0	2.62e-06	1.02e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-04	0.0	0,47,0	2.19e-06	1.50e-04	1.75e-04	47,47,47			0.0	0.0	0.0
423	0.0	0.04	0.0	0,47,0	2.62e-06	1.02e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-04	0.0	0,47,0	2.19e-06	1.50e-04	1.75e-04	47,47,47			0.0	0.0	0.0
708	0.0	0.02	0.0	0,47,0	0.0	7.21e-04	8.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.75e-04	0.0	0,47,0	0.0	2.11e-04	3.98e-04	47,47,47			0.0	0.0	0.0
709	0.0	0.03	0.0	0,47,0	1.98e-06	8.26e-04	9.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.86e-04	0.0	0,47,0	1.87e-06	2.37e-04	4.07e-04	47,47,47			0.0	0.0	0.0
710	0.0	0.05	0.0	0,47,0	1.48e-05	4.40e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.24e-05	9.86e-04	0.0	47,47,0	1.43e-05	1.77e-03	1.76e-03	47,47,47			1.00	0.08	0.92
711	0.0	0.06	0.0	0,47,0	1.48e-05	4.74e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	5.92e-04	3.19e-04	0.0	47,47,0	1.43e-05	2.66e-03	2.26e-03	47,47,47			1.00	0.08	0.92
712	0.0	0.06	0.0	0,47,0	6.91e-06	4.74e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	5.92e-04	1.98e-04	0.0	47,47,0	1.90e-06	2.66e-03	2.26e-03	47,47,47			1.00	0.08	0.92
1064	0.0	0.02	0.0	0,47,0	0.0	4.45e-04	8.13e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.75e-04	0.0	0,47,0	0.0	2.11e-04	3.98e-04	47,47,47			0.0	0.0	0.0

Pag. 231di441

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1065	0.0	0.03	0.0	0,47,0	3.37e-06	4.45e-04	8.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.86e-04	0.0	0,47,0	3.30e-06	2.22e-04	4.07e-04	47,47,47			0.0	0.0	0.0
1066	0.0	0.04	0.0	0,47,0	2.41e-05	1.22e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.86e-04	0.0	0,47,0	2.37e-05	8.50e-04	9.08e-04	47,47,47			0.0	0.0	0.0
1067	0.0	0.05	0.0	0,47,0	2.41e-05	1.22e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.20e-04	3.21e-04	0.0	47,47,0	2.37e-05	8.50e-04	9.08e-04	47,47,47			1.00	0.08	0.92
1068	0.0	0.05	0.0	0,47,0	3.13e-06	1.19e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.20e-04	1.98e-04	0.0	47,47,0	1.90e-06	8.34e-04	5.94e-04	47,47,47			1.00	0.08	0.92
1069	0.0	0.04	0.0	0,47,0	1.39e-06	5.85e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.53e-04	0.0	0,47,0	0.0	1.50e-04	2.67e-04	47,47,47			0.0	0.0	0.0
1070	0.0	0.04	0.0	0,47,0	1.39e-06	5.85e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.53e-04	0.0	0,47,0	0.0	1.50e-04	2.67e-04	47,47,47			0.0	0.0	0.0
1461	0.0	0.02	0.0	0,47,0	1.78e-06	2.00e-04	6.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.51e-04	0.0	0,47,0	1.75e-06	1.26e-04	2.23e-04	47,47,47			0.0	0.0	0.0
1462	0.0	0.02	0.0	0,47,0	5.87e-06	2.00e-04	6.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.90e-04	0.0	0,47,0	5.81e-06	1.26e-04	2.54e-04	47,47,47			0.0	0.0	0.0
1463	0.0	0.03	0.0	0,47,0	3.51e-05	1.10e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.90e-04	0.0	0,47,0	3.49e-05	2.11e-04	2.54e-04	47,47,47			0.0	0.0	0.0
1464	0.0	0.04	0.0	0,47,0	3.51e-05	1.10e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.32e-04	3.21e-04	0.0	47,47,0	3.49e-05	5.51e-04	2.37e-04	47,47,47			1.00	0.08	0.92
1465	0.0	0.04	0.0	0,47,0	1.96e-06	9.09e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.32e-04	1.71e-04	0.0	47,47,0	1.75e-06	5.51e-04	1.14e-04	47,47,47			1.00	0.08	0.92
1466	0.0	4.50e-03	0.0	0,47,0	9.09e-06	1.96e-04	1.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.07e-04	7.30e-04	0.0	47,47,0	9.06e-06	3.12e-04	3.65e-04	47,47,47			1.00	0.08	0.92
1467	0.0	0.03	0.0	0,47,0	9.09e-06	1.18e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.54e-04	0.0	0,47,0	9.06e-06	2.06e-04	3.65e-04	47,47,47			0.0	0.0	0.0
1468	0.0	0.03	0.0	0,47,0	0.0	8.13e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.54e-04	0.0	0,47,0	0.0	1.40e-04	2.67e-04	47,47,47			0.0	0.0	0.0
2072	0.0	0.01	0.0	0,47,0	8.01e-06	3.76e-04	4.33e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.77e-04	1.29e-04	0.0	47,47,0	7.88e-06	1.21e-03	1.49e-04	47,47,47			1.00	0.08	0.92
2073	0.0	0.01	0.0	0,47,0	9.97e-06	3.76e-04	4.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-03	1.73e-04	0.0	47,47,0	9.89e-06	1.29e-03	1.49e-04	47,47,47			1.00	0.08	0.92
2074	0.0	0.02	0.0	0,47,0	4.65e-05	1.48e-03	8.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-03	1.73e-04	0.0	47,47,0	4.62e-05	1.29e-03	4.08e-04	47,47,47			1.00	0.08	0.92
2075	0.0	0.03	0.0	0,47,0	4.65e-05	1.48e-03	9.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.32e-04	2.82e-04	0.0	47,47,0	4.62e-05	5.51e-04	4.08e-04	47,47,47			1.00	0.08	0.92
2076	0.0	0.03	0.0	0,47,0	1.55e-05	1.39e-03	9.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.32e-04	2.82e-04	0.0	47,47,0	1.52e-05	5.51e-04	2.44e-04	47,47,47			1.00	0.08	0.92
2077	0.0	4.68e-03	0.0	0,47,0	9.09e-06	1.99e-04	1.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.18e-04	7.30e-04	0.0	47,47,0	9.06e-06	8.28e-04	3.65e-04	47,47,47			1.00	0.08	0.92
2078	0.0	0.02	0.0	0,47,0	9.09e-06	2.57e-04	6.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.91e-04	8.54e-04	0.0	47,47,0	9.06e-06	1.15e-03	3.65e-04	47,47,47			1.00	0.08	0.92
2079	0.0	0.02	0.0	0,47,0	3.70e-06	2.57e-04	6.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.91e-04	8.54e-04	0.0	47,47,0	3.64e-06	1.15e-03	2.62e-04	47,47,47			1.00	0.08	0.92
2833	0.0	6.98e-03	0.0	0,47,0	8.01e-06	3.76e-04	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.77e-04	0.0	0.0	47,0,0	7.88e-06	1.21e-03	1.26e-04	47,47,47			1.00	0.08	0.92
2834	0.0	6.98e-03	0.0	0,47,0	9.97e-06	3.76e-04	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-03	0.0	0.0	47,0,0	9.89e-06	1.29e-03	1.26e-04	47,47,47			1.00	0.08	0.92
2835	0.0	0.01	0.0	0,47,0	4.65e-05	1.48e-03	5.84e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-03	9.79e-05	0.0	47,47,0	4.62e-05	1.29e-03	4.08e-04	47,47,47			1.00	0.08	0.92
2836	0.0	0.02	0.0	0,47,0	4.65e-05	1.48e-03	6.41e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.19e-04	2.82e-04	0.0	47,47,0	4.62e-05	5.37e-04	4.08e-04	47,47,47			1.00	0.08	0.92
2837	0.0	0.02	0.0	0,47,0	1.55e-05	1.39e-03	6.41e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.19e-04	2.82e-04	0.0	47,47,0	1.52e-05	3.02e-04	2.44e-04	47,47,47			1.00	0.08	0.92
2838	0.0	4.68e-03	0.0	0,47,0	7.61e-06	1.99e-04	1.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.18e-04	3.04e-05	0.0	47,47,0	7.58e-06	8.28e-04	1.34e-04	47,47,47			1.00	0.08	0.92
2839	0.0	9.22e-03	0.0	0,47,0	5.69e-06	2.57e-04	3.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.91e-04	0.0	0.0	47,0,0	5.69e-06	1.15e-03	4.71e-05	47,47,47			1.00	0.08	0.92
2840	0.0	9.22e-03	0.0	0,47,0	3.70e-06	2.57e-04	3.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.91e-04	0.0	0.0	47,0,0	3.64e-06	1.15e-03	5.50e-06	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.02e-03	0.06	0.0		4.65e-05	4.74e-03	0.03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
66	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo V. 127 V. 128 V. 545 Rif. cmb V. 129 V. 130 V. 131 Rif. cmb V. D.26 Rif. cmb Fac. B-A Qsup. A Qsup. B

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



3098	0.0	0.01	0.0	0,47,0	2.35e-05	5.66e-05	3.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.19e-04	2.44e-03	0.0	47,47,0	2.34e-05	1.46e-04	7.30e-04	47,47,47			1.00	0.07	0.93
3100	0.0	0.01	0.0	0,47,0	4.26e-05	3.28e-04	3.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.83e-04	2.44e-03	0.0	47,47,0	4.22e-05	2.53e-04	7.30e-04	47,47,47			1.00	0.07	0.93
3104	0.0	0.01	0.0	0,47,0	4.50e-05	3.28e-04	3.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.59e-03	1.23e-03	0.0	47,47,0	4.45e-05	2.04e-03	4.53e-04	47,47,47			1.00	0.07	0.93
3123	0.0	0.01	0.0	0,47,0	4.50e-05	2.04e-04	3.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.59e-03	2.05e-04	0.0	47,47,0	4.45e-05	2.04e-03	2.19e-04	47,47,47			1.00	0.07	0.93
3127	0.0	9.28e-03	0.0	0,47,0	1.37e-05	2.12e-05	2.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.81e-04	0.0	0,47,0	1.37e-05	4.61e-05	2.98e-04	47,47,47			0.0	0.0	0.0
3131	0.0	9.43e-03	0.0	0,47,0	3.23e-05	4.36e-05	2.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.05e-05	9.81e-04	0.0	47,47,0	3.20e-05	1.11e-04	2.98e-04	47,47,47			1.00	0.07	0.93
3133	0.0	9.43e-03	0.0	0,47,0	3.23e-05	4.36e-05	2.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.05e-05	8.07e-04	0.0	47,47,0	3.20e-05	1.11e-04	2.42e-04	47,47,47			1.00	0.07	0.93
3156	0.0	0.01	0.0	0,47,0	2.35e-05	5.66e-05	3.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.44e-03	0.0	0,47,0	2.34e-05	5.28e-05	7.30e-04	47,47,47			0.0	0.0	0.0
3158	0.0	9.46e-03	0.0	0,47,0	4.26e-05	3.28e-04	3.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.44e-03	0.0	0,47,0	4.22e-05	1.32e-04	7.30e-04	47,47,47			0.0	0.0	0.0
3162	0.0	9.68e-03	0.0	0,47,0	4.50e-05	3.28e-04	3.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.59e-03	1.23e-03	0.0	47,47,0	4.45e-05	2.04e-03	4.53e-04	47,47,47			1.00	0.07	0.93
3181	0.0	9.68e-03	0.0	0,47,0	4.50e-05	2.04e-04	3.25e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.59e-03	2.05e-04	0.0	47,47,0	4.45e-05	2.04e-03	2.19e-04	47,47,47			1.00	0.07	0.93
3185	0.0	9.28e-03	0.0	0,47,0	1.25e-05	2.03e-05	2.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.81e-04	0.0	0,47,0	1.24e-05	3.76e-05	2.98e-04	47,47,47			0.0	0.0	0.0
3189	0.0	9.43e-03	0.0	0,47,0	3.23e-05	2.03e-05	2.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.81e-04	0.0	0,47,0	3.20e-05	2.92e-05	2.98e-04	47,47,47			0.0	0.0	0.0
3191	0.0	9.43e-03	0.0	0,47,0	3.23e-05	7.24e-06	2.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.07e-04	0.0	0,47,0	3.20e-05	4.55e-06	2.42e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	3.23e-03	0.02	0.0		4.50e-05	4.00e-03	7.35e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
67	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
235	0.0	0.05	0.0	0,47,0	5.05e-06	2.55e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.51e-04	0.0	0,47,0	4.71e-06	1.64e-04	1.98e-04	47,47,47			0.0	0.0	0.0
236	0.0	0.05	0.0	0,47,0	5.05e-06	2.55e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.17e-04	0.0	0,47,0	4.71e-06	1.64e-04	1.98e-04	47,47,47			0.0	0.0	0.0
237	0.0	0.03	0.0	0,47,0	0.0	6.06e-04	8.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.17e-04	0.0	0,47,0	0.0	1.44e-04	2.48e-04	47,47,47			0.0	0.0	0.0
238	0.0	0.04	0.0	0,47,0	3.46e-06	3.36e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.72e-04	4.96e-04	0.0	47,47,0	1.59e-06	1.53e-03	1.56e-03	47,47,47			1.00	0.08	0.92
239	0.0	0.04	0.0	0,47,0	3.46e-06	3.38e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.33e-04	2.70e-04	0.0	47,47,0	1.59e-06	1.60e-03	1.58e-03	47,47,47			1.00	0.08	0.92
240	0.0	0.04	0.0	0,47,0	2.80e-06	3.38e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.33e-04	2.68e-04	0.0	47,47,0	0.0	1.60e-03	1.58e-03	47,47,47			1.00	0.08	0.92
703	0.0	0.05	0.0	0,47,0	1.49e-05	2.55e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.20e-04	0.0	0,47,0	1.47e-05	3.43e-04	4.38e-04	47,47,47			0.0	0.0	0.0
704	0.0	0.05	0.0	0,47,0	1.49e-05	2.55e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.13e-03	0.0	0,47,0	1.47e-05	3.43e-04	4.38e-04	47,47,47			0.0	0.0	0.0
705	0.0	0.03	0.0	0,47,0	0.0	6.06e-04	8.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.13e-03	0.0	0,47,0	0.0	2.33e-04	4.43e-04	47,47,47			0.0	0.0	0.0
706	0.0	0.04	0.0	0,47,0	5.40e-06	3.36e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.05e-04	1.03e-03	0.0	47,47,0	4.70e-06	1.53e-03	1.56e-03	47,47,47			1.00	0.08	0.92
707	0.0	0.04	0.0	0,47,0	5.40e-06	3.38e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.33e-04	7.33e-04	0.0	47,47,0	4.70e-06	1.60e-03	1.58e-03	47,47,47			1.00	0.08	0.92
708	0.0	0.04	0.0	0,47,0	3.03e-06	3.38e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.33e-04	6.77e-04	0.0	47,47,0	2.05e-06	1.60e-03	1.58e-03	47,47,47			1.00	0.08	0.92
1059	0.0	0.05	0.0	0,47,0	3.21e-05	3.60e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.36e-05	4.20e-04	0.0	47,47,0	3.17e-05	3.62e-04	4.38e-04	47,47,47			1.00	0.08	0.92
1060	0.0	0.05	0.0	0,47,0	3.21e-05	3.60e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.36e-05	1.13e-03	0.0	47,47,0	3.17e-05	3.62e-04	4.38e-04	47,47,47			1.00	0.08	0.92
1061	0.0	0.03	0.0	0,47,0	2.09e-06	3.76e-04	8.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.13e-03	0.0	0,47,0	2.04e-06	2.33e-04	4.43e-04	47,47,47			0.0	0.0	0.0
1062	0.0	0.03	0.0	0,47,0	1.20e-05	1.68e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.05e-04	1.03e-03	0.0	47,47,0	1.14e-05	8.96e-04	1.02e-03	47,47,47			1.00	0.08	0.92

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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO

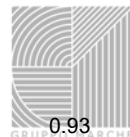


1063	0.0	0.03	0.0	0,47,0	1.20e-05	1.69e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.30e-04	7.33e-04	0.0	47,47,0	1.14e-05	8.99e-04	1.02e-03	47,47,47			1.00	0.08	0.92
1064	0.0	0.03	0.0	0,47,0	7.38e-06	1.69e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.30e-04	6.77e-04	0.0	47,47,0	6.69e-06	8.99e-04	1.01e-03	47,47,47			1.00	0.08	0.92
1457	0.0	0.04	0.0	0,47,0	8.18e-05	3.60e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.39e-03	6.73e-04	0.0	47,47,0	8.17e-05	2.43e-03	9.73e-04	47,47,47			1.00	0.08	0.92
1458	0.0	0.02	0.0	0,47,0	6.02e-06	1.80e-04	6.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.84e-04	6.73e-04	0.0	47,47,0	5.98e-06	6.32e-04	2.55e-04	47,47,47			1.00	0.08	0.92
1459	0.0	0.03	0.0	0,47,0	1.93e-05	1.67e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.62e-04	5.57e-04	0.0	47,47,0	1.90e-05	6.54e-04	3.19e-04	47,47,47			1.00	0.08	0.92
1460	0.0	0.03	0.0	0,47,0	1.93e-05	1.67e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.62e-04	2.58e-04	0.0	47,47,0	1.90e-05	6.82e-04	3.54e-04	47,47,47			1.00	0.08	0.92
1461	0.0	0.03	0.0	0,47,0	1.61e-05	1.67e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.62e-04	2.37e-04	0.0	47,47,0	1.58e-05	6.82e-04	3.54e-04	47,47,47			1.00	0.08	0.92
1619	0.0	0.04	0.0	0,47,0	8.18e-05	3.60e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.39e-03	4.52e-05	0.0	47,47,0	8.17e-05	2.43e-03	9.73e-04	47,47,47			1.00	0.08	0.92
2067	0.0	0.03	0.0	0,47,0	1.10e-04	5.96e-05	7.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.39e-03	4.00e-04	0.0	47,47,0	1.10e-04	2.43e-03	9.73e-04	47,47,47			1.00	0.08	0.92
2068	0.0	0.03	0.0	0,47,0	1.10e-04	8.41e-05	7.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.39e-03	4.00e-04	0.0	47,47,0	1.10e-04	2.43e-03	9.73e-04	47,47,47			1.00	0.08	0.92
2069	0.0	0.01	0.0	0,47,0	8.55e-06	3.79e-04	4.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	0.0	0.0	47,0,0	8.47e-06	1.54e-03	2.04e-04	47,47,47			1.00	0.08	0.92
2070	0.0	0.02	0.0	0,47,0	3.83e-05	2.21e-03	8.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	1.25e-04	0.0	47,47,0	3.77e-05	1.54e-03	4.68e-04	47,47,47			1.00	0.08	0.92
2071	0.0	0.02	0.0	0,47,0	3.83e-05	2.21e-03	8.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.25e-04	2.37e-04	0.0	47,47,0	3.77e-05	1.20e-03	4.85e-04	47,47,47			1.00	0.08	0.92
2072	0.0	0.02	0.0	0,47,0	3.80e-05	2.21e-03	8.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.70e-04	2.37e-04	0.0	47,47,0	3.73e-05	1.14e-03	4.85e-04	47,47,47			1.00	0.08	0.92
2828	0.0	0.01	0.0	0,47,0	1.10e-04	3.81e-05	3.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.57e-04	4.00e-04	0.0	47,47,0	1.10e-04	7.17e-04	5.84e-04	47,47,47			1.00	0.08	0.92
2829	0.0	0.01	0.0	0,47,0	1.10e-04	8.41e-05	3.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.17e-04	4.00e-04	0.0	47,47,0	1.10e-04	1.06e-03	5.84e-04	47,47,47			1.00	0.08	0.92
2830	0.0	6.97e-03	0.0	0,47,0	8.55e-06	3.79e-04	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	0.0	0.0	47,0,0	8.47e-06	1.54e-03	2.04e-04	47,47,47			1.00	0.08	0.92
2831	0.0	0.01	0.0	0,47,0	3.83e-05	2.21e-03	7.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	0.0	0.0	47,0,0	3.77e-05	1.54e-03	4.68e-04	47,47,47			1.00	0.08	0.92
2832	0.0	0.01	0.0	0,47,0	3.83e-05	2.21e-03	7.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.25e-04	0.0	0.0	47,0,0	3.77e-05	1.20e-03	4.85e-04	47,47,47			1.00	0.08	0.92
2833	0.0	0.01	0.0	0,47,0	3.80e-05	2.21e-03	7.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.70e-04	0.0	0.0	47,0,0	3.73e-05	1.14e-03	4.85e-04	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.39e-03	0.05	0.0		1.10e-04	3.38e-03	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
68	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
224	0.0	0.01	0.0	0,47,0	0.0	3.99e-04	4.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.11e-04	2.90e-04	0.0	47,47,0	0.0	4.33e-04	3.27e-04	47,47,47			1.00	0.07	0.93
225	0.0	0.01	0.0	0,47,0	0.0	3.99e-04	4.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.11e-04	2.90e-04	0.0	47,47,0	0.0	4.33e-04	3.27e-04	47,47,47			1.00	0.07	0.93
226	0.0	0.02	0.0	0,47,0	0.0	3.91e-05	7.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.94e-04	0.0	0,47,0	0.0	1.80e-04	1.34e-04	47,47,47			0.0	0.0	0.0
227	0.0	0.02	0.0	0,47,0	0.0	3.91e-05	7.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.80e-04	0.0	0,47,0	0.0	8.07e-05	1.11e-04	47,47,47			0.0	0.0	0.0
228	0.0	0.02	0.0	0,47,0	0.0	2.38e-05	5.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.80e-04	0.0	0,47,0	0.0	1.24e-05	5.65e-05	47,47,47			0.0	0.0	0.0
229	0.0	0.02	0.0	0,47,0	0.0	2.59e-05	4.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.67e-04	0.0	0,47,0	0.0	1.15e-05	5.05e-05	47,47,47			0.0	0.0	0.0
230	0.0	0.02	0.0	0,47,0	0.0	2.59e-05	4.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.43e-04	0.0	0,47,0	0.0	1.15e-05	5.05e-05	47,47,47			0.0	0.0	0.0
692	0.0	0.01	0.0	0,47,0	0.0	3.99e-04	4.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.11e-04	2.90e-04	0.0	47,47,0	0.0	4.33e-04	3.27e-04	47,47,47			1.00	0.07	0.93
693	0.0	0.01	0.0	0,47,0	0.0	3.99e-04	4.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.11e-04	2.90e-04	0.0	47,47,0	0.0	4.33e-04	3.27e-04	47,47,47			1.00	0.07	0.93
694	0.0	0.02	0.0	0,47,0	0.0	5.30e-05	7.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.06e-04	0.0	0,47,0	0.0	1.80e-04	1.70e-04	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	7.45e-04	0.0	0.0	47,0,0	1.59e-06	9.93e-04	1.44e-04	47,47,47		1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26			
	7.45e-04	0.02	0.0		1.45e-05	9.93e-04	7.05e-03		0.0			

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
69	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3 cm	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1	0.0	0.02	0.0	0,47,0	3.66e-06	6.63e-04	8.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.55e-03	0.0	0,47,0	3.25e-06	1.04e-03	1.65e-03	47,47,47			0.0	0.0	0.0
58	0.0	0.05	0.0	0,47,0	5.19e-06	6.63e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.45e-04	2.55e-03	0.0	47,47,0	4.05e-06	1.04e-03	1.65e-03	47,47,47			1.00	0.07	0.93
67	0.0	0.05	0.0	0,47,0	5.19e-06	4.51e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.45e-04	7.12e-04	0.0	47,47,0	4.05e-06	8.57e-04	9.66e-04	47,47,47			1.00	0.07	0.93
83	0.0	0.03	0.0	0,47,0	0.0	1.64e-04	9.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.88e-04	0.0	0.0	47,0,0	0.0	3.85e-04	9.37e-05	47,47,47			1.00	0.07	0.93
92	0.0	0.03	0.0	0,47,0	0.0	1.64e-04	9.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.11e-04	0.0	0.0	47,0,0	0.0	3.85e-04	9.37e-05	47,47,47			1.00	0.07	0.93
101	0.0	0.03	0.0	0,47,0	1.06e-06	2.07e-05	8.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.11e-04	0.0	0.0	47,0,0	0.0	3.72e-04	6.21e-06	47,47,47			1.00	0.07	0.93
107	0.0	0.02	0.0	0,47,0	1.06e-06	3.98e-06	7.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.17e-05	9.65e-06	0.0	47,47,0	0.0	1.11e-04	3.68e-06	47,47,47			1.00	0.07	0.93
114	0.0	0.02	0.0	0,47,0	0.0	1.03e-06	7.35e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.29e-05	9.65e-06	0.0	47,47,0	0.0	1.00e-04	3.68e-06	47,47,47			1.00	0.07	0.93
120	0.0	0.02	0.0	0,47,0	0.0	1.89e-06	7.35e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.29e-05	8.10e-04	0.0	47,47,0	0.0	1.00e-04	2.40e-04	47,47,47			1.00	0.07	0.93
127	0.0	9.41e-03	0.0	0,47,0	0.0	1.89e-06	2.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.10e-04	0.0	0,47,0	0.0	1.22e-05	2.40e-04	47,47,47			0.0	0.0	0.0
470	0.0	0.03	0.0	0,47,0	3.76e-06	1.68e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.55e-03	0.0	0,47,0	3.25e-06	1.04e-03	1.65e-03	47,47,47			0.0	0.0	0.0
527	0.0	0.05	0.0	0,47,0	5.19e-06	1.68e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.45e-04	2.55e-03	0.0	47,47,0	4.05e-06	1.04e-03	1.65e-03	47,47,47			1.00	0.07	0.93
536	0.0	0.05	0.0	0,47,0	5.19e-06	4.51e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.45e-04	7.12e-04	0.0	47,47,0	4.05e-06	8.57e-04	9.66e-04	47,47,47			1.00	0.07	0.93
552	0.0	0.03	0.0	0,47,0	3.16e-06	1.64e-04	9.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.88e-04	0.0	0.0	47,0,0	2.77e-06	3.85e-04	9.37e-05	47,47,47			1.00	0.07	0.93
561	0.0	0.03	0.0	0,47,0	3.16e-06	1.64e-04	9.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.11e-04	1.75e-05	0.0	47,47,0	2.77e-06	3.85e-04	9.37e-05	47,47,47			1.00	0.07	0.93
570	0.0	0.03	0.0	0,47,0	2.71e-06	2.07e-05	8.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.11e-04	9.45e-05	0.0	47,47,0	2.44e-06	3.72e-04	3.11e-05	47,47,47			1.00	0.07	0.93
576	0.0	0.02	0.0	0,47,0	1.50e-06	4.36e-06	7.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.17e-05	9.45e-05	0.0	47,47,0	1.30e-06	1.11e-04	3.11e-05	47,47,47			1.00	0.07	0.93
583	0.0	0.02	0.0	0,47,0	0.0	1.03e-06	7.35e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.29e-05	6.15e-05	0.0	47,47,0	0.0	1.00e-04	2.03e-05	47,47,47			1.00	0.07	0.93
589	0.0	0.02	0.0	0,47,0	0.0	5.86e-06	7.35e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.29e-05	8.10e-04	0.0	47,47,0	0.0	1.00e-04	2.40e-04	47,47,47			1.00	0.07	0.93
596	0.0	0.01	0.0	0,47,0	0.0	5.86e-06	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.10e-04	0.0	0,47,0	0.0	1.22e-05	2.40e-04	47,47,47			0.0	0.0	0.0
841	0.0	0.04	0.0	0,47,0	5.44e-06	1.68e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.92e-04	8.21e-04	0.0	47,47,0	4.37e-06	7.37e-04	8.55e-04	47,47,47			1.00	0.07	0.93
885	0.0	0.04	0.0	0,47,0	5.44e-06	1.68e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.92e-04	8.21e-04	0.0	47,47,0	4.37e-06	7.37e-04	8.55e-04	47,47,47			1.00	0.07	0.93
894	0.0	0.04	0.0	0,47,0	1.48e-06	1.03e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.05e-04	5.42e-04	0.0	47,47,0	0.0	5.47e-04	3.80e-04	47,47,47			1.00	0.07	0.93
910	0.0	0.03	0.0	0,47,0	5.94e-06	1.14e-05	9.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.07e-04	3.01e-04	0.0	47,47,0	5.54e-06	1.36e-04	9.32e-05	47,47,47			1.00	0.07	0.93
919	0.0	0.03	0.0	0,47,0	5.94e-06	1.31e-05	9.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.07e-04	5.32e-04	0.0	47,47,0	5.54e-06	1.36e-04	1.58e-04	47,47,47			1.00	0.07	0.93
928	0.0	0.03	0.0	0,47,0	3.40e-06	1.31e-05	8.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.98e-05	5.32e-04	0.0	47,47,0	3.18e-06	8.47e-05	1.58e-04	47,47,47			1.00	0.07	0.93
934	0.0	0.02	0.0	0,47,0	1.50e-06	4.36e-06	7.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.53e-04	0.0	0,47,0	1.30e-06	4.21e-06	1.33e-04	47,47,47			0.0	0.0	0.0
941	0.0	0.02	0.0	0,47,0	0.0	1.03e-06	6.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.28e-05	2.42e-04	0.0	47,47,0	0.0	6.72e-05	7.20e-05	47,47,47			1.00	0.07	0.93
947	0.0	0.02	0.0	0,47,0	0.0	6.31e-06	6.35e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.28e-05	3.17e-04	0.0	47,47,0	0.0	6.72e-05	9.60e-05	47,47,47			1.00	0.07	0.93
954	0.0	0.01	0.0	0,47,0	0.0	6.31e-06	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1241	0.0	3.17e-04	0.0	0,47,0	0.0	7.70e-06	9.60e-05	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.04	0.0	0,47,0	1.69e-05	1.06e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.92e-04	1.13e-03	0.0	47,47,0	1.56e-05	7.37e-04	8.55e-04	47,47,47	0.0	0	1.00	0.07	0.93
1255	0.0	0.04	0.0	0,47,0	1.69e-05	1.06e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.92e-04	1.34e-03	0.0	47,47,0	1.56e-05	7.37e-04	8.55e-04	47,47,47	0.0	0	1.00	0.07	0.93
1256	0.0	0.04	0.0	0,47,0	7.46e-06	3.61e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.05e-04	1.34e-03	0.0	47,47,0	6.67e-06	5.47e-04	5.67e-04	47,47,47	0.0	0	1.00	0.07	0.93
1593	0.0	0.03	0.0	0,47,0	2.51e-05	6.56e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.68e-03	0.0	0,47,0	2.47e-05	2.95e-05	5.01e-04	47,47,47	0.0	0	0.0	0.0	0.0
1594	0.0	0.03	0.0	0,47,0	2.51e-05	8.80e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.68e-03	0.0	0,47,0	2.47e-05	2.95e-05	5.01e-04	47,47,47	0.0	0	0.0	0.0	0.0
1595	0.0	0.02	0.0	0,47,0	3.40e-06	8.80e-06	7.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.31e-03	0.0	0,47,0	3.18e-06	1.11e-05	3.75e-04	47,47,47	0.0	0	0.0	0.0	0.0
1596	0.0	0.02	0.0	0,47,0	0.0	4.30e-06	6.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.17e-04	0.0	0,47,0	0.0	4.21e-06	2.34e-04	47,47,47	0.0	0	0.0	0.0	0.0
1597	0.0	0.02	0.0	0,47,0	0.0	0.0	6.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.15e-04	0.0	0,47,0	0.0	4.98e-06	1.19e-04	47,47,47	0.0	0	0.0	0.0	0.0
1598	0.0	0.02	0.0	0,47,0	0.0	6.31e-06	5.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.25e-04	0.0	0,47,0	0.0	4.98e-06	3.62e-05	47,47,47	0.0	0	0.0	0.0	0.0
1601	0.0	0.01	0.0	0,47,0	0.0	6.31e-06	3.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.36e-05	0.0	0,47,0	0.0	0.0	1.55e-05	47,47,47	0.0	0	0.0	0.0	0.0
1725	0.0	0.02	0.0	0,47,0	1.69e-05	3.84e-04	8.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.13e-03	0.0	0,47,0	1.56e-05	5.15e-04	6.41e-04	47,47,47	0.0	0	0.0	0.0	0.0
1787	0.0	0.04	0.0	0,47,0	1.69e-05	3.84e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.56e-03	1.34e-03	0.0	47,47,0	1.56e-05	3.47e-03	6.41e-04	47,47,47	0.0	0	1.00	0.07	0.93
1801	0.0	0.04	0.0	0,47,0	5.13e-05	3.61e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.51e-03	1.34e-03	0.0	47,47,0	5.07e-05	7.72e-03	5.67e-04	47,47,47	0.0	0	1.00	0.07	0.93
1814	0.0	9.18e-03	0.0	0,47,0	8.49e-05	3.63e-05	2.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.51e-03	0.0	0.0	47,0,0	8.43e-05	7.72e-03	6.03e-05	47,47,47	0.0	0	1.00	0.07	0.93
1828	0.0	0.03	0.0	0,47,0	8.49e-05	2.88e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.07e-03	1.68e-03	0.0	47,47,0	8.43e-05	4.81e-03	5.01e-04	47,47,47	0.0	0	1.00	0.07	0.93
1842	0.0	0.03	0.0	0,47,0	2.51e-05	2.88e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.42e-04	1.68e-03	0.0	47,47,0	2.47e-05	7.59e-04	5.01e-04	47,47,47	0.0	0	1.00	0.07	0.93
1857	0.0	0.02	0.0	0,47,0	2.05e-06	8.80e-06	6.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.42e-04	1.31e-03	0.0	47,47,0	1.87e-06	7.59e-04	3.75e-04	47,47,47	0.0	0	1.00	0.07	0.93
1866	0.0	0.02	0.0	0,47,0	0.0	4.30e-06	5.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.05e-04	8.17e-04	0.0	47,47,0	0.0	2.48e-04	2.34e-04	47,47,47	0.0	0	1.00	0.07	0.93
1875	0.0	0.02	0.0	0,47,0	0.0	1.62e-06	5.64e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.02e-05	4.15e-04	0.0	47,47,0	0.0	6.29e-05	1.19e-04	47,47,47	0.0	0	1.00	0.07	0.93
1884	0.0	0.01	0.0	0,47,0	3.82e-06	3.60e-06	4.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.89e-04	0.0	0,47,0	3.77e-06	5.57e-06	1.68e-04	47,47,47	0.0	0	0.0	0.0	0.0
1891	0.0	0.01	0.0	0,47,0	3.82e-06	3.60e-06	3.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.89e-04	0.0	0,47,0	3.77e-06	1.43e-06	1.68e-04	47,47,47	0.0	0	0.0	0.0	0.0
2336	0.0	0.02	0.0	0,47,0	1.27e-05	3.17e-04	6.33e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.78e-04	0.0	0,47,0	1.25e-05	5.15e-04	6.41e-04	47,47,47	0.0	0	0.0	0.0	0.0
2462	0.0	0.02	0.0	0,47,0	1.42e-05	3.17e-04	7.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.56e-03	5.78e-04	0.0	47,47,0	1.37e-05	3.47e-03	6.41e-04	47,47,47	0.0	0	1.00	0.07	0.93
2481	0.0	0.02	0.0	0,47,0	5.13e-05	7.19e-05	7.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.51e-03	0.0	0.0	47,0,0	5.07e-05	7.72e-03	2.97e-04	47,47,47	0.0	0	1.00	0.07	0.93
2499	0.0	9.18e-03	0.0	0,47,0	8.49e-05	3.63e-05	2.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.51e-03	0.0	0.0	47,0,0	8.43e-05	7.72e-03	6.03e-05	47,47,47	0.0	0	1.00	0.07	0.93
2560	0.0	0.02	0.0	0,47,0	8.49e-05	2.88e-05	7.01e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.07e-03	0.0	0.0	47,0,0	8.43e-05	4.81e-03	2.55e-05	47,47,47	0.0	0	1.00	0.07	0.93
2581	0.0	0.02	0.0	0,47,0	2.33e-05	2.88e-05	7.01e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.42e-04	0.0	0.0	47,0,0	2.31e-05	7.59e-04	2.55e-05	47,47,47	0.0	0	1.00	0.07	0.93
2604	0.0	0.02	0.0	0,47,0	0.0	8.64e-06	5.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.42e-04	0.0	0.0	47,0,0	0.0	7.59e-04	9.25e-06	47,47,47	0.0	0	1.00	0.07	0.93
2617	0.0	0.02	0.0	0,47,0	0.0	1.40e-06	5.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.05e-04	0.0	0.0	47,0,0	0.0	2.48e-04	9.25e-06	47,47,47	0.0	0	1.00	0.07	0.93
2634	0.0	0.02	0.0	0,47,0	0.0	1.62e-06	5.25e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.02e-05	1.59e-04	0.0	47,47,0	0.0	6.29e-05	5.01e-05	47,47,47	0.0	0	1.00	0.07	0.93
2651	0.0	0.01	0.0	0,47,0	3.82e-06	1.62e-06	4.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.89e-04	0.0	0,47,0	3.77e-06	5.57e-06	1.68e-04	47,47,47	0.0	0	0.0	0.0	0.0
2666	0.0	0.01	0.0	0,47,0	3.82e-06	1.50e-06	3.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.89e-04	0.0	0,47,0	3.77e-06	1.43e-06	1.68e-04	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	6.51e-03	0.05	0.0		8.49e-05	7.72e-03	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
70	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 6.7	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
273	0.0	0.03	0.0	0,47,0	0.0	2.29e-04	9.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.83e-04	0.0	0,47,0	0.0	6.48e-05	1.72e-04	47,47,47			0.0	0.0	0.0
274	0.0	0.05	0.0	0,47,0	5.23e-06	2.54e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.83e-04	0.0	0,47,0	4.87e-06	1.64e-04	1.97e-04	47,47,47			0.0	0.0	0.0
275	0.0	0.08	0.0	0,47,0	5.23e-06	3.48e-04	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.93e-04	1.56e-04	0.0	47,47,0	4.87e-06	2.34e-04	1.97e-04	47,47,47			1.00	0.08	0.92
276	0.0	0.08	0.0	0,47,0	2.90e-06	3.48e-04	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.93e-04	0.0	0.0	47,0,0	1.72e-06	2.34e-04	1.63e-05	47,47,47			1.00	0.08	0.92
277	0.0	0.02	0.0	0,47,0	0.0	5.78e-05	6.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.06e-05	0.0	0,47,0	0.0	4.26e-05	5.69e-05	47,47,47			0.0	0.0	0.0
278	0.0	0.02	0.0	0,47,0	0.0	5.78e-05	6.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.06e-05	0.0	0,47,0	0.0	4.26e-05	5.69e-05	47,47,47			0.0	0.0	0.0
720	0.0	0.03	0.0	0,47,0	1.19e-06	2.29e-04	9.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.06e-03	0.0	0,47,0	1.03e-06	8.60e-05	3.23e-04	47,47,47			0.0	0.0	0.0
721	0.0	0.05	0.0	0,47,0	1.39e-05	2.54e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.06e-03	0.0	0,47,0	1.37e-05	3.40e-04	4.31e-04	47,47,47			0.0	0.0	0.0
722	0.0	0.08	0.0	0,47,0	1.39e-05	4.01e-04	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.93e-04	4.27e-04	0.0	47,47,0	1.37e-05	3.40e-04	4.31e-04	47,47,47			1.00	0.08	0.92
723	0.0	0.08	0.0	0,47,0	3.88e-06	4.01e-04	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.93e-04	6.23e-05	0.0	47,47,0	3.02e-06	2.34e-04	2.14e-05	47,47,47			1.00	0.08	0.92
724	0.0	0.02	0.0	0,47,0	0.0	5.78e-05	6.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.42e-04	0.0	0,47,0	0.0	4.26e-05	5.69e-05	47,47,47			0.0	0.0	0.0
725	0.0	0.02	0.0	0,47,0	0.0	5.78e-05	6.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.42e-04	0.0	0,47,0	0.0	4.26e-05	5.69e-05	47,47,47			0.0	0.0	0.0
1092	0.0	0.03	0.0	0,47,0	2.98e-06	1.35e-04	9.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.06e-03	0.0	0,47,0	2.90e-06	8.60e-05	3.23e-04	47,47,47			0.0	0.0	0.0
1093	0.0	0.05	0.0	0,47,0	2.74e-05	3.14e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.06e-03	0.0	0,47,0	2.69e-05	3.95e-04	4.31e-04	47,47,47			0.0	0.0	0.0
1094	0.0	0.06	0.0	0,47,0	2.74e-05	5.04e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.23e-04	4.27e-04	0.0	47,47,0	2.69e-05	8.49e-04	4.31e-04	47,47,47			1.00	0.08	0.92
1095	0.0	0.06	0.0	0,47,0	3.88e-06	5.04e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.23e-04	6.23e-05	0.0	47,47,0	3.02e-06	8.49e-04	1.30e-04	47,47,47			1.00	0.08	0.92
1096	0.0	0.02	0.0	0,47,0	4.89e-06	3.90e-05	6.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.24e-04	0.0	0,47,0	4.85e-06	1.76e-05	2.06e-04	47,47,47			0.0	0.0	0.0
1097	0.0	0.02	0.0	0,47,0	4.89e-06	3.90e-05	6.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.24e-04	0.0	0,47,0	4.85e-06	1.76e-05	2.06e-04	47,47,47			0.0	0.0	0.0
1480	0.0	0.02	0.0	0,47,0	7.61e-06	9.34e-05	7.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.16e-04	6.76e-04	0.0	47,47,0	7.54e-06	5.53e-04	2.06e-04	47,47,47			1.00	0.08	0.92
1481	0.0	0.04	0.0	0,47,0	5.71e-05	3.14e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.09e-03	6.76e-04	0.0	47,47,0	5.72e-05	2.56e-03	1.52e-03	47,47,47			1.00	0.08	0.92
1482	0.0	0.05	0.0	0,47,0	5.30e-06	5.04e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-03	0.0	0.0	47,0,0	5.50e-06	4.30e-03	3.10e-03	47,47,47			1.00	0.08	0.92
1483	0.0	4.32e-03	0.0	0,47,0	2.64e-05	1.45e-04	1.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.27e-04	7.78e-04	0.0	47,47,0	2.62e-05	8.05e-04	2.51e-04	47,47,47			1.00	0.08	0.92
1484	0.0	0.02	0.0	0,47,0	2.64e-05	3.00e-05	6.25e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.18e-03	0.0	0,47,0	2.62e-05	5.56e-05	3.40e-04	47,47,47			0.0	0.0	0.0
1485	0.0	0.02	0.0	0,47,0	6.78e-06	1.72e-05	6.25e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.18e-03	0.0	0,47,0	6.73e-06	1.81e-05	3.40e-04	47,47,47			0.0	0.0	0.0
1620	0.0	0.05	0.0	0,47,0	5.71e-05	5.04e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-03	1.13e-04	0.0	47,47,0	5.72e-05	4.30e-03	3.10e-03	47,47,47			1.00	0.08	0.92
2115	0.0	0.02	0.0	0,47,0	9.89e-06	1.22e-04	5.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.16e-04	0.0	0.0	47,0,0	9.86e-06	1.18e-03	2.53e-04	47,47,47			1.00	0.08	0.92
2116	0.0	0.03	0.0	0,47,0	5.71e-05	1.22e-04	7.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.09e-03	2.86e-04	0.0	47,47,0	5.72e-05	2.56e-03	1.52e-03	47,47,47			1.00	0.08	0.92
2117	0.0	0.03	0.0	0,47,0	5.71e-05	4.54e-04	8.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-03	6.11e-04	0.0	47,47,0	5.72e-05	4.30e-03	3.10e-03	47,47,47			1.00	0.08	0.92
2118	0.0	0.03	0.0	0,47,0	2.49e-05	4.54e-04	8.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-03	6.11e-04	0.0	47,47,0	2.48e-05	4.30e-03	3.10e-03	47,47,47			1.00	0.08	0.92
2119	0.0	4.79e-03	0.0	0,47,0	2.64e-05	1.45e-04	1.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.27e-04	7.78e-04	0.0	47,47,0	2.62e-05	8.05e-04	3.10e-04	47,47,47			1.00	0.08	0.92
2120	0.0	0.01	0.0	0,47,0	2.64e-05	3.00e-05	4.33e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.18e-03	0.0	0,47,0	2.62e-05	5.56e-05	3.40e-04	47,47,47			0.0	0.0	0.0
2121	0.0	0.01	0.0	0,47,0	1.37e-05	3.00e-05	4.33e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.18e-03	0.0	0,47,0	1.36e-05	5.14e-05	3.40e-04	47,47,47			0.0	0.0	0.0
2876	0.0	0.01	0.0	0,47,0	9.89e-06	1.22e-04	3.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.16e-04	0.0	0.0	47,0,0	9.86e-06	1.18e-03	2.53e-04	47,47,47			1.00	0.08	0.92
2877	0.0	0.01	0.0	0,47,0	5.38e-05	1.22e-04	4.02e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.16e-04	2.86e-04	0.0	47,47,0	5.37e-05	1.18e-03	7.55e-04	47,47,47			1.00	0.08	0.92
2878	0.0	0.01	0.0	0,47,0	5.38e-05	4.54e-04	4.89e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.37e-04	6.11e-04	0.0	47,47,0	5.37e-05	1.41e-03	1.51e-03	47,47,47			1.00	0.08	0.92
2879	0.0	0.01	0.0	0,47,0	2.49e-05	4.54e-04	4.89e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



	2.68e-04	6.11e-04	0.0	47,47,0	2.48e-05	1.41e-03	1.51e-03	47,47,47			1.00	0.08	0.92
2880	0.0	4.79e-03	0.0	0,47,0	2.56e-05	1.20e-04	1.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.15e-04	0.0	0,47,0	2.55e-05	1.92e-04	3.10e-04	47,47,47			0.0	0.0	0.0
2881	0.0	7.55e-03	0.0	0,47,0	2.56e-05	3.00e-05	2.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.15e-04	0.0	0,47,0	2.55e-05	5.53e-05	1.99e-04	47,47,47			0.0	0.0	0.0
2882	0.0	7.55e-03	0.0	0,47,0	1.37e-05	3.00e-05	2.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.93e-04	0.0	0,47,0	1.36e-05	5.14e-05	1.88e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.23e-03	0.08	0.0		5.72e-05	4.30e-03	0.03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
71	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
226	0.0	6.54e-03	0.0	0,47,0	0.0	7.89e-06	2.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.27e-04	0.0	0,47,0	0.0	1.76e-05	1.94e-04	47,47,47			0.0	0.0	0.0
288	0.0	0.02	0.0	0,47,0	0.0	7.89e-06	5.85e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.04e-04	6.27e-04	0.0	47,47,0	0.0	1.33e-04	1.94e-04	47,47,47			1.00	0.07	0.93
292	0.0	0.02	0.0	0,47,0	0.0	1.26e-06	5.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.04e-04	0.0	0.0	47,0,0	0.0	1.33e-04	6.81e-06	47,47,47			1.00	0.07	0.93
296	0.0	0.02	0.0	0,47,0	0.0	1.18e-06	5.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.89e-05	0.0	0.0	47,0,0	0.0	4.70e-05	2.54e-06	47,47,47			1.00	0.07	0.93
300	0.0	0.02	0.0	0,47,0	0.0	1.94e-06	5.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.14e-05	0.0	0.0	47,0,0	0.0	4.93e-05	1.66e-06	47,47,47			1.00	0.07	0.93
308	0.0	0.02	0.0	0,47,0	0.0	1.94e-06	5.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.25e-05	0.0	0.0	47,0,0	0.0	5.13e-05	1.62e-06	47,47,47			1.00	0.07	0.93
316	0.0	0.02	0.0	0,47,0	0.0	2.38e-06	5.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.25e-05	0.0	0.0	47,0,0	0.0	5.19e-05	1.82e-06	47,47,47			1.00	0.07	0.93
324	0.0	0.02	0.0	0,47,0	0.0	2.38e-06	5.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.25e-05	0.0	0.0	47,0,0	0.0	5.19e-05	1.82e-06	47,47,47			1.00	0.07	0.93
694	0.0	9.08e-03	0.0	0,47,0	0.0	8.52e-06	3.06e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.27e-04	0.0	0,47,0	0.0	1.76e-05	1.94e-04	47,47,47			0.0	0.0	0.0
735	0.0	0.02	0.0	0,47,0	0.0	8.52e-06	5.85e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.90e-04	6.27e-04	0.0	47,47,0	0.0	2.34e-04	1.94e-04	47,47,47			1.00	0.07	0.93
737	0.0	0.02	0.0	0,47,0	0.0	1.26e-06	5.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.90e-04	0.0	0.0	47,0,0	0.0	2.34e-04	6.81e-06	47,47,47			1.00	0.07	0.93
739	0.0	0.02	0.0	0,47,0	0.0	1.18e-06	5.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.71e-04	0.0	0.0	47,0,0	0.0	2.02e-04	2.54e-06	47,47,47			1.00	0.07	0.93
741	0.0	0.02	0.0	0,47,0	0.0	1.94e-06	5.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.61e-04	0.0	0.0	47,0,0	0.0	1.90e-04	1.89e-06	47,47,47			1.00	0.07	0.93
747	0.0	0.02	0.0	0,47,0	0.0	1.94e-06	5.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.52e-04	0.0	0.0	47,0,0	0.0	1.81e-04	2.61e-06	47,47,47			1.00	0.07	0.93
753	0.0	0.02	0.0	0,47,0	0.0	2.38e-06	5.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.50e-04	0.0	0.0	47,0,0	0.0	1.83e-04	2.61e-06	47,47,47			1.00	0.07	0.93
759	0.0	0.02	0.0	0,47,0	0.0	2.38e-06	5.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.50e-04	0.0	0.0	47,0,0	0.0	1.83e-04	1.82e-06	47,47,47			1.00	0.07	0.93
1050	0.0	0.01	0.0	0,47,0	0.0	8.52e-06	3.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.71e-04	0.0	0,47,0	0.0	9.44e-06	8.42e-05	47,47,47			0.0	0.0	0.0
1107	0.0	0.02	0.0	0,47,0	0.0	8.52e-06	5.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.64e-04	2.71e-04	0.0	47,47,0	0.0	3.13e-04	8.42e-05	47,47,47			1.00	0.07	0.93
1111	0.0	0.02	0.0	0,47,0	0.0	0.0	5.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.85e-04	0.0	0.0	47,0,0	0.0	3.37e-04	5.02e-06	47,47,47			1.00	0.07	0.93
1115	0.0	0.02	0.0	0,47,0	0.0	1.08e-06	5.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.85e-04	0.0	0.0	47,0,0	0.0	3.37e-04	2.29e-06	47,47,47			1.00	0.07	0.93
1119	0.0	0.02	0.0	0,47,0	0.0	1.33e-06	5.19e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.56e-04	0.0	0.0	47,0,0	0.0	3.03e-04	2.27e-06	47,47,47			1.00	0.07	0.93
1127	0.0	0.02	0.0	0,47,0	0.0	1.34e-06	5.19e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.32e-04	0.0	0.0	47,0,0	0.0	2.75e-04	3.72e-06	47,47,47			1.00	0.07	0.93
1135	0.0	0.02	0.0	0,47,0	0.0	2.85e-06	5.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.24e-04	0.0	0.0	47,0,0	0.0	2.73e-04	5.36e-06	47,47,47			1.00	0.07	0.93
1143	0.0	0.02	0.0	0,47,0	0.0	2.85e-06	5.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.24e-04	0.0	0.0	47,0,0	0.0	2.73e-04	5.36e-06	47,47,47			1.00	0.07	0.93
1447	0.0	0.01	0.0	0,47,0	1.05e-06	1.14e-05	3.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.10e-05	4.32e-05	0.0	47,47,0	1.01e-06	6.15e-05	1.93e-05	47,47,47			1.00	0.07	0.93
1548	0.0	0.02	0.0	0,47,0	1.05e-06	1.14e-05	4.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.64e-04	4.32e-05	0.0	47,47,0	1.01e-06	3.13e-04	1.93e-05	47,47,47			1.00	0.07	0.93
1564	0.0	0.02	0.0	0,47,0	0.0	1.90e-06	4.78e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



876	8.28e-04	2.81e-04	0.0	47,47,0	1.78e-06	1.58e-03	3.21e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	9.04e-03	0.0	0,47,0	1.83e-06	2.58e-04	2.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
877	8.28e-04	2.81e-04	0.0	47,47,0	1.78e-06	1.58e-03	3.21e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	6.11e-03	0.0	0,47,0	0.0	1.06e-04	1.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
878	1.12e-04	3.05e-05	0.0	47,47,0	0.0	2.21e-04	1.03e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	4.81e-03	0.0	0,47,0	0.0	6.55e-05	1.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
1286	6.26e-05	3.05e-05	0.0	47,47,0	0.0	9.16e-05	1.66e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	7.01e-03	0.0	0,47,0	3.06e-06	4.06e-04	2.32e-03	47,47,47	0.0	0	0.0	0.0	0.0
1287	7.10e-04	2.81e-04	0.0	47,47,0	2.94e-06	1.45e-03	3.21e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	7.01e-03	0.0	0,47,0	3.06e-06	4.06e-04	2.32e-03	47,47,47	0.0	0	0.0	0.0	0.0
1288	7.10e-04	2.81e-04	0.0	47,47,0	2.94e-06	1.45e-03	3.21e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	4.99e-03	0.0	0,47,0	0.0	1.01e-04	1.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
1289	2.26e-04	1.93e-04	0.0	47,47,0	0.0	5.37e-04	7.99e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	4.23e-03	0.0	0,47,0	0.0	6.61e-05	1.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
1777	2.08e-05	7.78e-05	0.0	47,47,0	0.0	5.67e-05	7.22e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.95e-03	0.0	0,47,0	5.43e-06	4.06e-04	1.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
1778	4.67e-04	0.0	0.0	47,0,0	5.42e-06	1.19e-03	8.27e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.95e-03	0.0	0,47,0	5.43e-06	4.06e-04	1.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
1779	4.93e-04	1.93e-04	0.0	47,47,0	5.42e-06	1.19e-03	8.27e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.41e-03	0.0	0,47,0	0.0	9.97e-05	1.11e-03	47,47,47	0.0	0	0.0	0.0	0.0
1780	4.93e-04	1.93e-04	0.0	47,47,0	0.0	9.50e-04	2.01e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.41e-03	0.0	0,47,0	0.0	8.34e-05	1.11e-03	47,47,47	0.0	0	0.0	0.0	0.0
2383	2.97e-05	7.78e-05	0.0	47,47,0	0.0	9.47e-05	7.22e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.32e-03	0.0	0,47,0	5.43e-06	3.38e-04	1.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
2384	4.67e-04	0.0	0.0	47,0,0	5.42e-06	1.19e-03	8.27e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.32e-03	0.0	0,47,0	5.43e-06	3.38e-04	1.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
2385	4.93e-04	1.27e-04	0.0	47,47,0	5.42e-06	1.19e-03	8.27e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	2.64e-03	0.0	0,47,0	0.0	8.34e-05	8.63e-04	47,47,47	0.0	0	0.0	0.0	0.0
2386	4.93e-04	1.27e-04	0.0	47,47,0	0.0	9.50e-04	2.01e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	2.64e-03	0.0	0,47,0	0.0	8.34e-05	8.63e-04	47,47,47	0.0	0	0.0	0.0	0.0
	2.97e-05	5.46e-05	0.0	47,47,0	0.0	9.47e-05	3.23e-05	47,47,47	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	8.28e-04	0.01	0.0		5.43e-06	1.58e-03	3.51e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
74	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
33	0.0	0.01	0.0	0,47,0	0.0	6.67e-05	3.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.44e-04	0.0	0,47,0	0.0	2.48e-05	6.38e-05	47,47,47	0.0	0	0.0	0.0	0.0
34	0.0	0.01	0.0	0,47,0	0.0	7.90e-05	3.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.44e-04	0.0	0,47,0	0.0	5.41e-05	8.98e-05	47,47,47	0.0	0	0.0	0.0	0.0
35	0.0	7.77e-03	0.0	0,47,0	0.0	7.90e-05	2.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.82e-04	0.0	0,47,0	0.0	5.60e-05	9.56e-05	47,47,47	0.0	0	0.0	0.0	0.0
36	0.0	6.10e-03	0.0	0,47,0	0.0	3.62e-05	1.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.41e-04	0.0	0,47,0	0.0	5.60e-05	9.56e-05	47,47,47	0.0	0	0.0	0.0	0.0
37	0.0	7.60e-04	0.0	0,47,0	0.0	2.50e-05	2.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.41e-04	0.0	0,47,0	0.0	2.40e-05	8.48e-05	47,47,47	0.0	0	0.0	0.0	0.0
38	0.0	9.25e-04	0.0	0,47,0	0.0	6.48e-06	2.93e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-04	0.0	0,47,0	0.0	1.42e-05	5.32e-05	47,47,47	0.0	0	0.0	0.0	0.0
39	0.0	7.90e-03	0.0	0,47,0	0.0	1.92e-04	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-04	0.0	0,47,0	0.0	7.12e-05	8.69e-05	47,47,47	0.0	0	0.0	0.0	0.0
40	0.0	9.86e-03	0.0	0,47,0	0.0	2.45e-04	3.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.53e-04	7.75e-05	0.0	47,47,0	0.0	3.24e-04	1.09e-04	47,47,47	0.0	0	1.00	0.07	0.93
41	0.0	9.86e-03	0.0	0,47,0	0.0	2.45e-04	3.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.53e-04	7.23e-05	0.0	47,47,0	0.0	3.24e-04	1.09e-04	47,47,47	0.0	0	1.00	0.07	0.93
502	0.0	0.01	0.0	0,47,0	0.0	1.66e-04	3.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.13e-05	1.44e-04	0.0	47,47,0	0.0	4.74e-05	6.38e-05	47,47,47	0.0	0	1.00	0.07	0.93
503	0.0	0.01	0.0	0,47,0	0.0	1.71e-04	3.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.13e-05	1.83e-04	0.0	47,47,0	0.0	5.41e-05	8.98e-05	47,47,47	0.0	0	1.00	0.07	0.93
504	0.0	7.77e-03	0.0	0,47,0	0.0	1.71e-04	2.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.01e-04	0.0	0,47,0	0.0	6.65e-05	1.07e-04	47,47,47	0.0	0	0.0	0.0	0.0
505	0.0	6.10e-03	0.0	0,47,0	0.0	5.64e-05	1.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.41e-04	0.0	0,47,0	0.0	6.65e-05	1.07e-04	47,47,47	0.0	0	0.0	0.0	0.0
506	0.0	7.60e-04	0.0	0,47,0	0.0	2.50e-05	2.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.41e-04	0.0	0,47,0	0.0	2.40e-05	8.48e-05	47,47,47	0.0	0	0.0	0.0	0.0
507	0.0	9.25e-04	0.0	0,47,0	0.0	6.48e-06	2.93e-04	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
75	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
267	0.0	0.03	0.0	0,47,0	1.26e-04	1.27e-05	9.16e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	1.26e-04	2.37e-05	3.43e-04	47,47,47			0.0	0.0	0.0
287	0.0	0.03	0.0	0,47,0	1.26e-04	1.27e-05	9.16e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	1.26e-04	2.37e-05	3.43e-04	47,47,47			0.0	0.0	0.0
305	0.0	0.08	0.0	0,47,0	2.99e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.38e-05	0.0	0,47,0	1.76e-06	1.04e-06	2.75e-05	47,47,47			0.0	0.0	0.0
314	0.0	0.08	0.0	0,47,0	2.99e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.40e-04	0.0	0,47,0	1.76e-06	1.04e-06	6.86e-05	47,47,47			0.0	0.0	0.0
322	0.0	0.06	0.0	0,47,0	1.40e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.40e-04	0.0	0,47,0	0.0	0.0	6.86e-05	47,47,47			0.0	0.0	0.0
714	0.0	0.05	0.0	0,47,0	1.26e-04	1.27e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	1.26e-04	2.37e-05	3.43e-04	47,47,47			0.0	0.0	0.0
734	0.0	0.05	0.0	0,47,0	1.26e-04	1.27e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	1.26e-04	2.37e-05	3.43e-04	47,47,47			0.0	0.0	0.0
744	0.0	0.08	0.0	0,47,0	6.65e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.39e-04	0.0	0,47,0	5.43e-06	1.04e-06	9.64e-05	47,47,47			0.0	0.0	0.0
751	0.0	0.08	0.0	0,47,0	6.65e-06	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.75e-04	0.0	0,47,0	5.43e-06	1.04e-06	1.63e-04	47,47,47			0.0	0.0	0.0
757	0.0	0.06	0.0	0,47,0	1.40e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.75e-04	0.0	0,47,0	0.0	0.0	1.63e-04	47,47,47			0.0	0.0	0.0
1086	0.0	0.06	0.0	0,47,0	6.44e-05	1.94e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.86e-04	0.0	0,47,0	6.41e-05	1.08e-05	1.68e-04	47,47,47			0.0	0.0	0.0
1106	0.0	0.06	0.0	0,47,0	6.44e-05	1.94e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.86e-04	0.0	0,47,0	6.41e-05	1.08e-05	1.68e-04	47,47,47			0.0	0.0	0.0
1124	0.0	0.08	0.0	0,47,0	3.29e-05	1.30e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.48e-03	0.0	0,47,0	3.17e-05	3.65e-06	4.21e-04	47,47,47			0.0	0.0	0.0
1133	0.0	0.08	0.0	0,47,0	3.29e-05	1.30e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.50e-03	0.0	0,47,0	3.17e-05	3.65e-06	4.24e-04	47,47,47			0.0	0.0	0.0
1141	0.0	0.05	0.0	0,47,0	1.12e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.50e-03	0.0	0,47,0	0.0	0.0	4.24e-04	47,47,47			0.0	0.0	0.0
1474	0.0	0.06	0.0	0,47,0	7.45e-05	2.10e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.78e-03	5.86e-04	0.0	47,47,0	7.43e-05	2.10e-03	1.68e-04	47,47,47			1.00	0.08	0.92
1492	0.0	0.06	0.0	0,47,0	2.02e-04	2.10e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.10e-03	5.86e-04	0.0	47,47,0	2.02e-04	7.19e-03	1.68e-04	47,47,47			1.00	0.08	0.92
1495	0.0	0.01	0.0	0,47,0	2.02e-04	0.0	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.57e-03	0.0	0.0	47,0,0	2.02e-04	0.01	6.01e-06	47,47,47			1.00	0.08	0.92
1499	0.0	0.02	0.0	0,47,0	2.38e-04	0.0	4.67e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.57e-03	0.0	0.0	47,0,0	2.38e-04	0.01	2.93e-06	47,47,47			1.00	0.08	0.92
1502	0.0	0.08	0.0	0,47,0	2.38e-04	1.30e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	5.90e-03	1.48e-03	0.0	47,47,0	2.38e-04	6.95e-03	4.21e-04	47,47,47			1.00	0.08	0.92
1507	0.0	0.08	0.0	0,47,0	7.31e-05	1.30e-06	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.79e-03	1.50e-03	0.0	47,47,0	7.26e-05	2.11e-03	4.24e-04	47,47,47			1.00	0.08	0.92
1511	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	8.92e-05	1.50e-03	0.0	47,47,0	0.0	1.07e-04	4.24e-04	47,47,47			1.00	0.08	0.92
2109	0.0	0.04	0.0	0,47,0	1.25e-04	2.10e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.78e-03	4.01e-04	0.0	47,47,0	1.25e-04	2.10e-03	1.33e-04	47,47,47			1.00	0.08	0.92
2132	0.0	0.04	0.0	0,47,0	2.18e-04	2.10e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.10e-03	1.11e-03	0.0	47,47,0	2.18e-04	7.19e-03	3.22e-04	47,47,47			1.00	0.08	0.92
2143	0.0	0.02	0.0	0,47,0	2.18e-04	1.99e-06	6.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.57e-03	1.11e-03	0.0	47,47,0	2.18e-04	0.01	3.22e-04	47,47,47			1.00	0.08	0.92
2151	0.0	0.03	0.0	0,47,0	2.38e-04	1.26e-06	7.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.57e-03	7.44e-04	0.0	47,47,0	2.38e-04	0.01	2.11e-04	47,47,47			1.00	0.08	0.92
2158	0.0	0.06	0.0	0,47,0	2.38e-04	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.90e-03	0.0	0.0	47,0,0	2.38e-04	6.95e-03	2.93e-06	47,47,47			1.00	0.08	0.92
2167	0.0	0.06	0.0	0,47,0	1.32e-04	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.25e-03	0.0	0.0	47,0,0	1.32e-04	2.65e-03	1.27e-06	47,47,47			1.00	0.08	0.92
2175	0.0	0.04	0.0	0,47,0	7.58e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.89e-03	0.0	0.0	47,0,0	7.42e-06	2.22e-03	0.0	47,47,47			1.00	0.08	0.92
2639	0.0	0.03	0.0	0,47,0	7.58e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.89e-03	0.0	0.0	47,0,0	7.42e-06	2.22e-03	0.0	47,47,47			1.00	0.08	0.92
2655	0.0	0.04	0.0	0,47,0	1.32e-04	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.25e-03	0.0	0.0	47,0,0	1.32e-04	2.65e-03	0.0	47,47,47			1.00	0.08	0.92
2781	0.0	0.04	0.0	0,47,0	2.21e-04	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.25e-03	0.0	0.0	47,0,0	2.21e-04	2.65e-03	0.0	47,47,47			1.00	0.08	0.92
2788	0.0	0.03	0.0	0,47,0	2.21e-04	1.26e-06	7.91e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

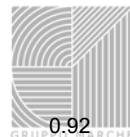


2797	8.66e-04	7.44e-04	0.0	47,47,0	2.21e-04	1.02e-03	2.11e-04	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.02	0.0	0,47,0	2.18e-04	1.99e-06	6.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
2809	0.0	1.11e-03	0.0	0,47,0	2.18e-04	9.31e-06	3.22e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.02	0.0	0,47,0	2.18e-04	9.87e-06	6.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
2870	0.0	1.11e-03	0.0	0,47,0	2.18e-04	2.05e-05	3.22e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.02	0.0	0,47,0	1.25e-04	9.87e-06	6.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.01e-04	0.0	0,47,0	1.25e-04	2.05e-05	1.33e-04	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	9.57e-03	0.08	0.0		2.38e-04	0.01	0.03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
76	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
257	0.0	0.02	0.0	0,47,0	5.99e-06	1.19e-06	6.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.79e-04	0.0	0.0	47,0,0	5.96e-06	4.61e-04	2.27e-05	47,47,47			1.00	0.08	0.92
290	0.0	0.05	0.0	0,47,0	5.99e-06	1.45e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	9.75e-04	0.0	0.0	47,0,0	5.96e-06	1.16e-03	2.27e-05	47,47,47			1.00	0.08	0.92
294	0.0	0.05	0.0	0,47,0	2.29e-06	1.45e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	9.75e-04	0.0	0.0	47,0,0	2.12e-06	1.16e-03	1.88e-05	47,47,47			1.00	0.08	0.92
298	0.0	0.04	0.0	0,47,0	2.29e-06	1.32e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.71e-04	0.0	0.0	47,0,0	2.12e-06	3.30e-04	1.61e-05	47,47,47			1.00	0.08	0.92
302	0.0	0.04	0.0	0,47,0	2.00e-06	6.76e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.17e-04	0.0	0.0	47,0,0	1.84e-06	1.41e-04	6.45e-06	47,47,47			1.00	0.08	0.92
310	0.0	0.04	0.0	0,47,0	1.82e-06	8.80e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.21e-05	0.0	0.0	47,0,0	1.64e-06	7.58e-05	3.48e-06	47,47,47			1.00	0.08	0.92
318	0.0	0.03	0.0	0,47,0	1.71e-06	8.80e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.71e-05	0.0	0.0	47,0,0	1.52e-06	4.72e-05	1.76e-06	47,47,47			1.00	0.08	0.92
433	0.0	0.03	0.0	0,47,0	5.99e-06	1.28e-05	9.08e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.36e-04	0.0	0.0	47,0,0	5.96e-06	7.68e-04	3.58e-05	47,47,47			1.00	0.08	0.92
443	0.0	0.05	0.0	0,47,0	5.99e-06	1.94e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	9.75e-04	0.0	0.0	47,0,0	5.96e-06	1.16e-03	3.77e-05	47,47,47			1.00	0.08	0.92
445	0.0	0.05	0.0	0,47,0	2.29e-06	1.94e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	9.75e-04	0.0	0.0	47,0,0	2.12e-06	1.16e-03	3.77e-05	47,47,47			1.00	0.08	0.92
447	0.0	0.04	0.0	0,47,0	2.29e-06	1.32e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.46e-04	0.0	0.0	47,0,0	2.12e-06	6.58e-04	1.61e-05	47,47,47			1.00	0.08	0.92
449	0.0	0.04	0.0	0,47,0	2.00e-06	6.76e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.58e-04	0.0	0.0	47,0,0	1.84e-06	4.35e-04	6.45e-06	47,47,47			1.00	0.08	0.92
451	0.0	0.04	0.0	0,47,0	1.82e-06	8.80e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.34e-04	0.0	0.0	47,0,0	1.64e-06	2.87e-04	7.31e-06	47,47,47			1.00	0.08	0.92
453	0.0	0.03	0.0	0,47,0	1.71e-06	8.80e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.61e-04	0.0	0.0	47,0,0	1.52e-06	2.04e-04	7.31e-06	47,47,47			1.00	0.08	0.92
1078	0.0	0.03	0.0	0,47,0	2.00e-06	8.61e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.40e-04	0.0	0.0	47,0,0	1.89e-06	9.13e-04	8.55e-05	47,47,47			1.00	0.08	0.92
1109	0.0	0.04	0.0	0,47,0	2.00e-06	8.61e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.52e-04	0.0	0.0	47,0,0	1.89e-06	1.03e-03	8.55e-05	47,47,47			1.00	0.08	0.92
1113	0.0	0.04	0.0	0,47,0	1.13e-06	1.94e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.52e-04	0.0	0.0	47,0,0	0.0	1.03e-03	3.77e-05	47,47,47			1.00	0.08	0.92
1117	0.0	0.04	0.0	0,47,0	1.43e-06	3.48e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.52e-04	0.0	0.0	47,0,0	1.26e-06	6.79e-04	1.14e-05	47,47,47			1.00	0.08	0.92
1121	0.0	0.03	0.0	0,47,0	1.47e-06	4.53e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.80e-04	0.0	0.0	47,0,0	1.30e-06	4.67e-04	3.49e-06	47,47,47			1.00	0.08	0.92
1129	0.0	0.03	0.0	0,47,0	1.47e-06	6.24e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-04	0.0	0.0	47,0,0	1.30e-06	3.26e-04	7.79e-06	47,47,47			1.00	0.08	0.92
1137	0.0	0.03	0.0	0,47,0	1.46e-06	6.24e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.86e-04	0.0	0.0	47,0,0	1.29e-06	2.38e-04	7.79e-06	47,47,47			1.00	0.08	0.92
1542	0.0	0.03	0.0	0,47,0	2.89e-06	1.10e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.40e-04	0.0	0.0	47,0,0	2.76e-06	9.13e-04	8.55e-05	47,47,47			1.00	0.08	0.92
1551	0.0	0.03	0.0	0,47,0	2.89e-06	1.10e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.68e-04	0.0	0.0	47,0,0	2.76e-06	9.51e-04	8.55e-05	47,47,47			1.00	0.08	0.92
1558	0.0	0.03	0.0	0,47,0	0.0	6.21e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.68e-04	0.0	0.0	47,0,0	0.0	9.51e-04	1.73e-05	47,47,47			1.00	0.08	0.92
1562	0.0	0.03	0.0	0,47,0	0.0	4.41e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.52e-04	0.0	0.0	47,0,0	0.0	6.79e-04	9.74e-06	47,47,47			1.00	0.08	0.92
1566	0.0	0.03	0.0	0,47,0	0.0	3.47e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.80e-04	0.0	0.0	47,0,0	0.0	4.67e-04	3.49e-06	47,47,47			1.00	0.08	0.92
1570	0.0	0.03	0.0	0,47,0	1.02e-06	3.70e-06	9.88e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



1573	2.63e-04	0.0	0.0	47,0,0	0.0	3.26e-04	7.79e-06	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	1.02e-06	3.70e-06	9.81e-03	47,47,47	0.0	0	0.0	0.0	0.0
2098	1.86e-04	0.0	0.0	47,0,0	0.0	2.38e-04	7.79e-06	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	2.89e-06	1.10e-04	9.25e-03	47,47,47	0.0	0	0.0	0.0	0.0
2135	2.37e-04	3.22e-04	0.0	47,47,0	2.76e-06	3.04e-04	1.31e-04	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	2.89e-06	1.10e-04	9.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
2139	4.47e-04	3.22e-04	0.0	47,47,0	2.76e-06	5.58e-04	1.31e-04	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	1.60e-05	9.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
2147	4.47e-04	0.0	0.0	47,0,0	0.0	5.58e-04	5.49e-05	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	9.01e-06	9.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
2155	3.57e-04	0.0	0.0	47,0,0	0.0	4.44e-04	2.52e-05	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	5.01e-06	9.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
2163	2.47e-04	0.0	0.0	47,0,0	0.0	3.08e-04	5.72e-06	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	9.07e-06	9.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
2171	1.58e-04	5.08e-06	0.0	47,47,0	0.0	1.99e-04	4.49e-06	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	9.07e-06	9.21e-03	47,47,47	0.0	0	0.0	0.0	0.0
2643	8.65e-05	5.08e-06	0.0	47,47,0	0.0	1.15e-04	4.49e-06	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	9.07e-06	8.68e-03	47,47,47	0.0	0	0.0	0.0	0.0
2660	0.0	5.08e-06	0.0	0,47,0	0.0	0.0	1.67e-06	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.03	0.0	0,47,0	0.0	9.07e-06	8.69e-03	47,47,47	0.0	0	0.0	0.0	0.0
2784	7.30e-05	5.08e-06	0.0	47,47,0	0.0	9.00e-05	1.67e-06	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	5.01e-06	8.73e-03	47,47,47	0.0	0	0.0	0.0	0.0
2793	1.19e-04	0.0	0.0	47,0,0	0.0	1.48e-04	5.72e-06	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	9.01e-06	8.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
2801	1.45e-04	0.0	0.0	47,0,0	0.0	1.87e-04	2.52e-05	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	1.60e-05	8.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
2807	1.45e-04	0.0	0.0	47,0,0	0.0	1.90e-04	5.49e-05	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.03	0.0	0,47,0	0.0	1.87e-05	8.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
2859	1.38e-04	3.22e-04	0.0	47,47,0	0.0	1.90e-04	1.31e-04	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.02	0.0	0,47,0	0.0	1.87e-05	6.81e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.22e-04	0.0	0,47,0	0.0	5.37e-05	1.31e-04	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	9.75e-04	0.05	0.0		5.99e-06	1.16e-03	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
77	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7 cm	SI	ok

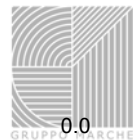
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
41	0.0	0.01	0.0	0,47,0	5.66e-06	1.71e-05	4.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.22e-04	0.0	0,47,0	5.64e-06	1.50e-05	1.34e-04	47,47,47	0.0	0	0.0	0.0	0.0
56	0.0	0.05	0.0	0,47,0	5.66e-06	1.71e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.44e-04	4.22e-04	0.0	47,47,0	5.64e-06	2.89e-04	1.34e-04	47,47,47	0.0	0	1.00	0.08	0.92
65	0.0	0.05	0.0	0,47,0	3.10e-06	9.96e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.44e-04	0.0	0.0	47,0,0	2.77e-06	2.89e-04	1.76e-06	47,47,47	0.0	0	1.00	0.08	0.92
76	0.0	0.05	0.0	0,47,0	4.61e-06	1.83e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.64e-05	0.0	0.0	47,0,0	4.29e-06	3.41e-05	3.09e-06	47,47,47	0.0	0	1.00	0.08	0.92
84	0.0	0.05	0.0	0,47,0	5.03e-06	1.83e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.64e-05	1.02e-04	0.0	47,47,0	4.79e-06	3.41e-05	3.19e-05	47,47,47	0.0	0	1.00	0.08	0.92
95	0.0	0.04	0.0	0,47,0	5.03e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.57e-04	0.0	0,47,0	4.79e-06	3.78e-06	4.78e-05	47,47,47	0.0	0	0.0	0.0	0.0
104	0.0	0.04	0.0	0,47,0	4.01e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.72e-04	0.0	0,47,0	3.81e-06	4.65e-06	5.32e-05	47,47,47	0.0	0	0.0	0.0	0.0
111	0.0	0.05	0.0	0,47,0	3.04e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.72e-04	0.0	0,47,0	2.81e-06	4.89e-06	5.32e-05	47,47,47	0.0	0	0.0	0.0	0.0
117	0.0	0.05	0.0	0,47,0	1.98e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.29e-04	0.0	0,47,0	1.61e-06	4.89e-06	4.12e-05	47,47,47	0.0	0	0.0	0.0	0.0
123	0.0	0.02	0.0	0,47,0	3.88e-05	1.79e-05	6.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.07e-04	0.0	0,47,0	3.88e-05	8.12e-06	9.49e-05	47,47,47	0.0	0	0.0	0.0	0.0
161	0.0	0.02	0.0	0,47,0	3.88e-05	1.79e-05	6.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.07e-04	0.0	0,47,0	3.88e-05	8.12e-06	9.49e-05	47,47,47	0.0	0	0.0	0.0	0.0
510	0.0	0.02	0.0	0,47,0	7.46e-06	1.71e-05	6.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.22e-04	0.0	0,47,0	7.40e-06	1.50e-05	1.34e-04	47,47,47	0.0	0	0.0	0.0	0.0
525	0.0	0.05	0.0	0,47,0	7.46e-06	1.71e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.44e-04	4.22e-04	0.0	47,47,0	7.40e-06	2.89e-04	1.34e-04	47,47,47	0.0	0	1.00	0.08	0.92
534	0.0	0.05	0.0	0,47,0	3.10e-06	9.96e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.44e-04	0.0	0.0	47,0,0	2.77e-06	2.89e-04	1.91e-06	47,47,47	0.0	0	1.00	0.08	0.92
545	0.0	0.05	0.0	0,47,0	6.35e-06	2.29e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



553	2.64e-05	1.23e-04	0.0	47,47,0	6.01e-06	3.41e-05	3.49e-05	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.05	0.0	0,47,0	6.49e-06	2.29e-06	0.01	47,47,47			0.0	0.0	0.0
	2.64e-05	3.23e-04	0.0	47,47,0	6.28e-06	3.41e-05	9.17e-05	47,47,47			1.00	0.08	0.92
564	0.0	0.04	0.0	0,47,0	6.49e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.72e-04	0.0	0,47,0	6.28e-06	3.78e-06	1.05e-04	47,47,47			0.0	0.0	0.0
573	0.0	0.04	0.0	0,47,0	4.25e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.72e-04	0.0	0,47,0	4.06e-06	4.65e-06	1.05e-04	47,47,47			0.0	0.0	0.0
580	0.0	0.05	0.0	0,47,0	3.04e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.36e-04	0.0	0,47,0	2.81e-06	4.89e-06	9.64e-05	47,47,47			0.0	0.0	0.0
586	0.0	0.05	0.0	0,47,0	1.98e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.33e-04	0.0	0,47,0	1.61e-06	4.89e-06	4.12e-05	47,47,47			0.0	0.0	0.0
592	0.0	0.03	0.0	0,47,0	3.88e-05	1.79e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.19e-04	3.07e-04	0.0	47,47,0	3.88e-05	2.58e-04	9.49e-05	47,47,47			1.00	0.08	0.92
629	0.0	0.03	0.0	0,47,0	3.88e-05	1.79e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.19e-04	3.07e-04	0.0	47,47,0	3.88e-05	2.58e-04	9.49e-05	47,47,47			1.00	0.08	0.92
868	0.0	0.02	0.0	0,47,0	7.46e-06	6.49e-06	6.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.49e-04	0.0	0,47,0	7.40e-06	9.69e-06	5.07e-05	47,47,47			0.0	0.0	0.0
883	0.0	0.05	0.0	0,47,0	7.46e-06	7.92e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.42e-05	1.49e-04	0.0	47,47,0	7.40e-06	6.59e-05	5.07e-05	47,47,47			1.00	0.08	0.92
892	0.0	0.05	0.0	0,47,0	4.63e-06	7.92e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.42e-05	5.29e-05	0.0	47,47,0	4.31e-06	6.59e-05	1.86e-05	47,47,47			1.00	0.08	0.92
903	0.0	0.05	0.0	0,47,0	1.46e-05	2.29e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.05e-04	0.0	0,47,0	1.43e-05	2.80e-06	1.17e-04	47,47,47			0.0	0.0	0.0
911	0.0	0.05	0.0	0,47,0	1.46e-05	2.29e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.05e-04	0.0	0,47,0	1.43e-05	2.80e-06	1.17e-04	47,47,47			0.0	0.0	0.0
922	0.0	0.04	0.0	0,47,0	6.49e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.72e-04	0.0	0,47,0	6.28e-06	1.10e-06	1.05e-04	47,47,47			0.0	0.0	0.0
931	0.0	0.04	0.0	0,47,0	4.25e-06	1.65e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.54e-05	3.72e-04	0.0	47,47,0	4.06e-06	3.32e-05	1.05e-04	47,47,47			1.00	0.08	0.92
938	0.0	0.05	0.0	0,47,0	2.60e-06	2.41e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.82e-04	3.36e-04	0.0	47,47,0	2.39e-06	2.18e-04	9.64e-05	47,47,47			1.00	0.08	0.92
944	0.0	0.05	0.0	0,47,0	0.0	2.41e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.82e-04	1.33e-04	0.0	47,47,0	0.0	2.18e-04	3.96e-05	47,47,47			1.00	0.08	0.92
950	0.0	0.04	0.0	0,47,0	4.02e-06	8.43e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.73e-04	0.0	0.0	47,0,0	3.78e-06	4.40e-04	1.36e-06	47,47,47			1.00	0.08	0.92
987	0.0	0.04	0.0	0,47,0	4.02e-06	8.43e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.73e-04	0.0	0.0	47,0,0	3.78e-06	4.40e-04	1.36e-06	47,47,47			1.00	0.08	0.92
1279	0.0	0.02	0.0	0,47,0	2.93e-05	6.49e-06	6.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.86e-04	6.11e-05	0.0	47,47,0	2.92e-05	8.08e-04	2.24e-05	47,47,47			1.00	0.08	0.92
1294	0.0	0.05	0.0	0,47,0	3.91e-05	7.92e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.06e-03	6.11e-05	0.0	47,47,0	3.90e-05	2.42e-03	2.24e-05	47,47,47			1.00	0.08	0.92
1302	0.0	0.05	0.0	0,47,0	3.91e-05	7.92e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.41e-03	5.29e-05	0.0	47,47,0	3.90e-05	2.84e-03	1.86e-05	47,47,47			1.00	0.08	0.92
1312	0.0	0.05	0.0	0,47,0	3.07e-05	2.63e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.41e-03	4.05e-04	0.0	47,47,0	3.06e-05	2.84e-03	1.17e-04	47,47,47			1.00	0.08	0.92
1319	0.0	0.05	0.0	0,47,0	3.07e-05	1.91e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.54e-03	4.05e-04	0.0	47,47,0	3.06e-05	1.81e-03	1.17e-04	47,47,47			1.00	0.08	0.92
1329	0.0	0.04	0.0	0,47,0	6.10e-06	1.19e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	3.19e-04	0.0	47,47,0	5.93e-06	1.46e-03	9.04e-05	47,47,47			1.00	0.08	0.92
1343	0.0	0.04	0.0	0,47,0	3.36e-06	1.83e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.76e-03	1.38e-04	0.0	47,47,0	3.20e-06	2.08e-03	3.95e-05	47,47,47			1.00	0.08	0.92
1352	0.0	0.04	0.0	0,47,0	6.12e-06	2.41e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.69e-03	0.0	0.0	47,0,0	5.94e-06	3.17e-03	8.45e-06	47,47,47			1.00	0.08	0.92
1359	0.0	0.04	0.0	0,47,0	6.12e-06	7.71e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.14e-03	0.0	0.0	47,0,0	5.94e-06	3.70e-03	8.45e-06	47,47,47			1.00	0.08	0.92
1367	0.0	0.04	0.0	0,47,0	3.12e-05	1.36e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.14e-03	0.0	0.0	47,0,0	3.11e-05	3.70e-03	9.63e-06	47,47,47			1.00	0.08	0.92
1407	0.0	0.04	0.0	0,47,0	3.12e-05	1.36e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.48e-03	0.0	0.0	47,0,0	3.11e-05	1.75e-03	9.63e-06	47,47,47			1.00	0.08	0.92
1770	0.0	0.02	0.0	0,47,0	1.04e-04	6.13e-06	5.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.86e-04	0.0	0.0	47,0,0	1.04e-04	8.08e-04	0.0	47,47,47			1.00	0.08	0.92
1785	0.0	0.04	0.0	0,47,0	1.04e-04	6.13e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.06e-03	2.29e-04	0.0	47,47,0	1.04e-04	2.42e-03	6.82e-05	47,47,47			1.00	0.08	0.92
1799	0.0	0.04	0.0	0,47,0	6.14e-05	3.46e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.41e-03	7.63e-04	0.0	47,47,0	6.13e-05	2.84e-03	2.25e-04	47,47,47			1.00	0.08	0.92
1816	0.0	0.04	0.0	0,47,0	3.43e-05	2.96e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.41e-03	7.63e-04	0.0	47,47,0	3.42e-05	2.84e-03	2.25e-04	47,47,47			1.00	0.08	0.92
1829	0.0	0.04	0.0	0,47,0	3.43e-05	1.91e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.54e-03	3.76e-04	0.0	47,47,0	3.42e-05	1.81e-03	1.15e-04	47,47,47			1.00	0.08	0.92
1845	0.0	0.03	0.0	0,47,0	4.65e-06	1.19e-06	9.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	0.0	0.0	47,0,0	4.52e-06	1.46e-03	1.26e-05	47,47,47			1.00	0.08	0.92
1860	0.0	0.03	0.0	0,47,0	1.11e-06	5.62e-06	9.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.76e-03	0.0	0.0	47,0,0	0.0	2.08e-03	8.32e-06	47,47,47			1.00	0.08	0.92
1870	0.0	0.03	0.0	0,47,0	7.51e-06	5.62e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.69e-03	0.0	0.0	47,0,0	7.42e-06	3.17e-03	1.48e-05	47,47,47			1.00	0.08	0.92

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

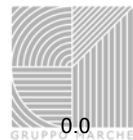


1878	0.0	0.03	0.0	0,47,0	9.59e-06	7.71e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.14e-03	0.0	0.0	47,0,0	9.57e-06	3.70e-03	1.48e-05	47,47,47			1.00	0.08	0.92
1887	0.0	0.03	0.0	0,47,0	3.12e-05	1.36e-05	8.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.14e-03	0.0	0.0	47,0,0	3.11e-05	3.70e-03	9.63e-06	47,47,47			1.00	0.08	0.92
1930	0.0	0.03	0.0	0,47,0	3.12e-05	1.36e-05	8.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.48e-03	0.0	0.0	47,0,0	3.11e-05	1.75e-03	9.63e-06	47,47,47			1.00	0.08	0.92
2376	0.0	0.02	0.0	0,47,0	1.04e-04	6.13e-06	4.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.56e-04	0.0	0.0	47,0,0	1.04e-04	4.19e-04	0.0	47,47,47			1.00	0.08	0.92
2460	0.0	0.03	0.0	0,47,0	1.04e-04	6.13e-06	9.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.56e-04	2.29e-04	0.0	47,47,0	1.04e-04	4.19e-04	6.82e-05	47,47,47			1.00	0.08	0.92
2479	0.0	0.03	0.0	0,47,0	6.14e-05	2.96e-06	9.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.63e-04	0.0	0,47,0	6.13e-05	1.12e-05	2.25e-04	47,47,47			0.0	0.0	0.0
2553	0.0	0.03	0.0	0,47,0	3.43e-05	2.96e-06	9.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.63e-04	0.0	0,47,0	3.42e-05	1.12e-05	2.25e-04	47,47,47			0.0	0.0	0.0
2569	0.0	0.03	0.0	0,47,0	3.43e-05	0.0	9.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.14e-04	3.76e-04	0.0	47,47,0	3.42e-05	6.15e-04	1.15e-04	47,47,47			1.00	0.08	0.92
2588	0.0	0.03	0.0	0,47,0	3.70e-06	0.0	8.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.92e-04	0.0	0.0	47,0,0	3.59e-06	1.05e-03	1.26e-05	47,47,47			1.00	0.08	0.92
2611	0.0	0.03	0.0	0,47,0	0.0	5.62e-06	8.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.11e-03	0.0	0.0	47,0,0	0.0	1.33e-03	8.32e-06	47,47,47			1.00	0.08	0.92
2629	0.0	0.03	0.0	0,47,0	7.51e-06	5.62e-06	8.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.11e-03	0.0	0.0	47,0,0	7.42e-06	1.33e-03	1.48e-05	47,47,47			1.00	0.08	0.92
2645	0.0	0.03	0.0	0,47,0	9.59e-06	4.30e-06	8.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.56e-04	0.0	0.0	47,0,0	9.57e-06	8.96e-04	1.48e-05	47,47,47			1.00	0.08	0.92
2662	0.0	0.03	0.0	0,47,0	1.53e-05	4.30e-06	8.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.15e-04	0.0	0.0	47,0,0	1.53e-05	1.43e-04	7.68e-06	47,47,47			1.00	0.08	0.92
2705	0.0	0.03	0.0	0,47,0	1.53e-05	3.03e-06	8.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.37e-05	0.0	0.0	47,0,0	1.53e-05	7.86e-05	6.23e-06	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	3.14e-03	0.05	0.0		1.04e-04	3.70e-03	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
78	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
41	0.0	7.99e-03	0.0	0,47,0	0.0	1.97e-04	2.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.94e-05	6.97e-05	0.0	47,47,0	0.0	1.62e-04	1.20e-04	47,47,47			1.00	0.07	0.93
42	0.0	7.99e-03	0.0	0,47,0	0.0	1.97e-04	2.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.94e-05	1.23e-04	0.0	47,47,0	0.0	1.62e-04	1.20e-04	47,47,47			1.00	0.07	0.93
43	0.0	4.33e-03	0.0	0,47,0	0.0	9.35e-05	1.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.23e-04	0.0	0,47,0	0.0	5.16e-05	8.07e-05	47,47,47			0.0	0.0	0.0
44	0.0	3.98e-03	0.0	0,47,0	0.0	1.76e-05	1.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.10e-04	0.0	0,47,0	0.0	1.03e-05	3.96e-05	47,47,47			0.0	0.0	0.0
45	0.0	4.57e-03	0.0	0,47,0	0.0	5.16e-05	1.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.10e-04	0.0	0,47,0	0.0	3.35e-05	4.88e-05	47,47,47			0.0	0.0	0.0
46	0.0	5.99e-03	0.0	0,47,0	0.0	1.70e-04	1.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.32e-06	8.50e-05	0.0	47,47,0	0.0	9.72e-05	1.04e-04	47,47,47			1.00	0.07	0.93
47	0.0	0.01	0.0	0,47,0	0.0	2.89e-04	3.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.13e-04	3.95e-05	0.0	47,47,0	0.0	5.36e-04	1.49e-04	47,47,47			1.00	0.07	0.93
48	0.0	0.01	0.0	0,47,0	0.0	2.89e-04	3.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.13e-04	0.0	0.0	47,0,0	0.0	5.36e-04	1.49e-04	47,47,47			1.00	0.07	0.93
510	0.0	7.99e-03	0.0	0,47,0	0.0	1.97e-04	2.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.66e-04	2.23e-04	0.0	47,47,0	0.0	4.72e-04	2.68e-04	47,47,47			1.00	0.07	0.93
511	0.0	7.99e-03	0.0	0,47,0	0.0	1.97e-04	2.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.66e-04	2.53e-04	0.0	47,47,0	0.0	4.72e-04	2.68e-04	47,47,47			1.00	0.07	0.93
512	0.0	4.33e-03	0.0	0,47,0	0.0	9.35e-05	1.40e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.53e-04	0.0	0,47,0	0.0	5.16e-05	9.84e-05	47,47,47			0.0	0.0	0.0
513	0.0	3.98e-03	0.0	0,47,0	0.0	1.76e-05	1.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.53e-04	0.0	0,47,0	0.0	2.87e-05	9.73e-05	47,47,47			0.0	0.0	0.0
514	0.0	4.57e-03	0.0	0,47,0	0.0	5.16e-05	1.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.39e-05	2.53e-04	0.0	47,47,0	0.0	1.77e-04	9.73e-05	47,47,47			1.00	0.07	0.93
515	0.0	5.99e-03	0.0	0,47,0	0.0	1.70e-04	1.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.18e-04	2.07e-04	0.0	47,47,0	0.0	1.81e-04	1.07e-04	47,47,47			1.00	0.07	0.93
516	0.0	0.01	0.0	0,47,0	2.62e-06	2.89e-04	3.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.24e-04	1.77e-04	0.0	47,47,0	2.56e-06	1.39e-03	3.30e-04	47,47,47			1.00	0.07	0.93
517	0.0	0.01	0.0	0,47,0	2.62e-06	2.89e-04	3.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.24e-04	1.77e-04	0.0	47,47,0	2.56e-06	1.39e-03	3.30e-04	47,47,47			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



868	0.0	6.96e-03	0.0	0,47,0	0.0	2.33e-04	2.27e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.65e-04	2.23e-04	0.0	47,47,0	0.0	4.85e-04	2.68e-04	47,47,47			1.00	0.07	0.93	
869	0.0	6.96e-03	0.0	0,47,0	0.0	2.33e-04	2.27e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.65e-04	2.53e-04	0.0	47,47,0	0.0	4.85e-04	2.68e-04	47,47,47			1.00	0.07	0.93	
870	0.0	3.60e-03	0.0	0,47,0	0.0	8.47e-05	1.15e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.10e-04	2.53e-04	0.0	47,47,0	0.0	2.98e-04	9.84e-05	47,47,47			1.00	0.07	0.93	
871	0.0	3.54e-03	0.0	0,47,0	0.0	4.15e-05	1.12e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.10e-04	2.53e-04	0.0	47,47,0	0.0	2.99e-04	9.73e-05	47,47,47			1.00	0.07	0.93	
872	0.0	4.12e-03	0.0	0,47,0	0.0	4.15e-05	1.31e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.93e-04	2.53e-04	0.0	47,47,0	0.0	2.99e-04	9.73e-05	47,47,47			1.00	0.07	0.93	
873	0.0	5.52e-03	0.0	0,47,0	0.0	8.95e-05	1.79e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.18e-04	2.07e-04	0.0	47,47,0	0.0	1.81e-04	1.07e-04	47,47,47			1.00	0.07	0.93	
874	0.0	8.72e-03	0.0	0,47,0	4.24e-06	2.40e-04	2.87e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	7.24e-04	2.54e-04	0.0	47,47,0	4.18e-06	1.39e-03	3.34e-04	47,47,47			1.00	0.07	0.93	
875	0.0	8.72e-03	0.0	0,47,0	4.24e-06	2.40e-04	2.87e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	7.24e-04	2.54e-04	0.0	47,47,0	4.18e-06	1.39e-03	3.34e-04	47,47,47			1.00	0.07	0.93	
1279	0.0	5.80e-03	0.0	0,47,0	0.0	2.33e-04	1.93e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.65e-04	1.52e-04	0.0	47,47,0	0.0	4.85e-04	1.26e-04	47,47,47			1.00	0.07	0.93	
1280	0.0	5.80e-03	0.0	0,47,0	0.0	2.33e-04	1.93e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.65e-04	1.52e-04	0.0	47,47,0	0.0	4.85e-04	1.26e-04	47,47,47			1.00	0.07	0.93	
1281	0.0	3.55e-03	0.0	0,47,0	0.0	8.47e-05	1.12e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.10e-04	1.38e-04	0.0	47,47,0	0.0	2.98e-04	6.51e-05	47,47,47			1.00	0.07	0.93	
1282	0.0	3.55e-03	0.0	0,47,0	0.0	4.15e-05	1.12e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.10e-04	1.64e-04	0.0	47,47,0	0.0	2.99e-04	7.85e-05	47,47,47			1.00	0.07	0.93	
1283	0.0	3.59e-03	0.0	0,47,0	0.0	4.77e-05	1.15e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.93e-04	2.00e-04	0.0	47,47,0	0.0	2.99e-04	8.38e-05	47,47,47			1.00	0.07	0.93	
1284	0.0	4.47e-03	0.0	0,47,0	1.61e-06	8.13e-05	1.45e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.64e-04	2.00e-04	0.0	47,47,0	1.56e-06	3.89e-04	8.53e-05	47,47,47			1.00	0.07	0.93	
1285	0.0	6.79e-03	0.0	0,47,0	6.35e-06	3.67e-04	2.25e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.11e-04	2.54e-04	0.0	47,47,0	6.20e-06	1.26e-03	3.34e-04	47,47,47			1.00	0.07	0.93	
1286	0.0	6.79e-03	0.0	0,47,0	6.35e-06	3.67e-04	2.25e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.11e-04	2.54e-04	0.0	47,47,0	6.20e-06	1.26e-03	3.34e-04	47,47,47			1.00	0.07	0.93	
1770	0.0	4.26e-03	0.0	0,47,0	1.17e-06	1.21e-04	1.60e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	7.08e-04	1.52e-04	0.0	47,47,0	1.16e-06	1.08e-03	3.87e-04	47,47,47			1.00	0.07	0.93	
1771	0.0	4.26e-03	0.0	0,47,0	1.17e-06	1.21e-04	1.60e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	8.52e-04	1.52e-04	0.0	47,47,0	1.16e-06	1.20e-03	3.87e-04	47,47,47			1.00	0.07	0.93	
1772	0.0	3.55e-03	0.0	0,47,0	0.0	2.70e-05	1.12e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	8.52e-04	1.38e-04	0.0	47,47,0	0.0	1.20e-03	8.18e-05	47,47,47			1.00	0.07	0.93	
1773	0.0	3.55e-03	0.0	0,47,0	0.0	4.03e-05	1.12e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.46e-04	1.38e-04	0.0	47,47,0	0.0	7.83e-04	4.55e-05	47,47,47			1.00	0.07	0.93	
1774	0.0	2.97e-03	0.0	0,47,0	0.0	5.01e-05	9.59e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.46e-04	8.63e-05	0.0	47,47,0	0.0	7.83e-04	4.46e-05	47,47,47			1.00	0.07	0.93	
1775	0.0	2.97e-03	0.0	0,47,0	1.65e-06	8.13e-05	9.59e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.77e-04	1.36e-04	0.0	47,47,0	1.64e-06	1.10e-03	2.52e-04	47,47,47			1.00	0.07	0.93	
1776	0.0	3.81e-03	0.0	0,47,0	8.57e-06	3.67e-04	1.70e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.77e-04	1.36e-04	0.0	47,47,0	8.54e-06	1.23e-03	7.62e-04	47,47,47			1.00	0.07	0.93	
1777	0.0	3.81e-03	0.0	0,47,0	8.57e-06	3.67e-04	1.70e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	5.29e-04	0.0	0.0	47,0,0	8.54e-06	1.23e-03	7.62e-04	47,47,47			1.00	0.07	0.93	
2376	0.0	3.12e-03	0.0	0,47,0	1.17e-06	1.21e-04	1.22e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	7.08e-04	0.0	0.0	47,0,0	1.16e-06	1.08e-03	3.87e-04	47,47,47			1.00	0.07	0.93	
2377	0.0	3.12e-03	0.0	0,47,0	1.17e-06	1.21e-04	1.22e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	8.52e-04	0.0	0.0	47,0,0	1.16e-06	1.20e-03	3.87e-04	47,47,47			1.00	0.07	0.93	
2378	0.0	2.24e-03	0.0	0,47,0	0.0	2.70e-05	7.16e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	8.52e-04	0.0	0.0	47,0,0	0.0	1.20e-03	8.18e-05	47,47,47			1.00	0.07	0.93	
2379	0.0	2.24e-03	0.0	0,47,0	0.0	4.03e-05	7.16e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.46e-04	0.0	0.0	47,0,0	0.0	7.83e-04	3.62e-05	47,47,47			1.00	0.07	0.93	
2380	0.0	1.73e-03	0.0	0,47,0	0.0	5.01e-05	5.65e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.46e-04	0.0	0.0	47,0,0	0.0	7.83e-04	4.46e-05	47,47,47			1.00	0.07	0.93	
2381	0.0	1.98e-03	0.0	0,47,0	1.65e-06	5.01e-05	6.32e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.77e-04	0.0	0.0	47,0,0	1.64e-06	1.10e-03	2.52e-04	47,47,47			1.00	0.07	0.93	
2382	0.0	3.23e-03	0.0	0,47,0	8.57e-06	2.58e-04	1.42e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.77e-04	0.0	0.0	47,0,0	8.54e-06	1.23e-03	7.62e-04	47,47,47			1.00	0.07	0.93	
2383	0.0	3.23e-03	0.0	0,47,0	8.57e-06	2.58e-04	1.42e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	5.29e-04	0.0	0.0	47,0,0	8.54e-06	1.23e-03	7.62e-04	47,47,47			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	8.52e-04	0.01	0.0		8.57e-06	1.39e-03	3.37e-03		0.0					

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
79	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	5.8	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1337	0.02	0.0	0.0	47,0,0	5.05e-04	0.05	2.82e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	3.91e-03	0.0	0,47,0	4.74e-04	5.92e-05	1.14e-03	47,47,47			0.0	0.0	0.0
1345	0.03	0.0	0.0	47,0,0	5.05e-04	0.05	2.82e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	3.91e-03	0.0	0,47,0	4.74e-04	1.03e-04	1.14e-03	47,47,47			0.0	0.0	0.0
1353	0.03	0.0	0.0	47,0,0	4.78e-05	0.04	7.53e-05	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	1.50e-03	0.0	0,47,0	4.62e-05	1.03e-04	5.25e-04	47,47,47			0.0	0.0	0.0
1361	0.03	0.0	0.0	47,0,0	3.85e-04	0.04	4.06e-05	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	3.24e-03	0.0	0,47,0	3.75e-04	2.57e-05	8.92e-04	47,47,47			0.0	0.0	0.0
1399	0.01	0.0	0.0	47,0,0	3.85e-04	0.01	0.0	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	3.24e-03	0.0	0,47,0	3.75e-04	1.81e-06	8.92e-04	47,47,47			0.0	0.0	0.0
1853	0.02	0.0	0.0	47,0,0	5.34e-04	0.05	2.94e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	5.84e-03	0.0	0,47,0	5.21e-04	3.71e-04	1.89e-03	47,47,47			0.0	0.0	0.0
1862	0.03	4.22e-03	0.0	47,47,0	5.34e-04	0.05	2.94e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	5.84e-03	0.0	0,47,0	5.21e-04	3.71e-04	1.89e-03	47,47,47			0.0	0.0	0.0
1871	0.03	6.56e-03	0.0	47,47,0	1.13e-04	0.04	3.95e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	5.12e-03	0.0	0,47,0	1.11e-04	1.03e-04	1.44e-03	47,47,47			0.0	0.0	0.0
1880	0.03	6.56e-03	0.0	47,47,0	6.20e-04	0.04	3.95e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	4.63e-03	0.0	0,47,0	6.15e-04	9.86e-05	1.34e-03	47,47,47			0.0	0.0	0.0
1922	0.01	4.23e-03	0.0	47,47,0	6.20e-04	0.01	2.43e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	3.92e-03	0.0	0,47,0	6.15e-04	9.86e-05	1.18e-03	47,47,47			0.0	0.0	0.0
2596	6.38e-03	0.0	0.0	47,0,0	5.34e-04	0.02	2.94e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	5.84e-03	0.0	0,47,0	5.21e-04	3.71e-04	1.89e-03	47,47,47			0.0	0.0	0.0
2613	6.38e-03	4.22e-03	0.0	47,47,0	5.34e-04	0.02	2.94e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	5.84e-03	0.0	0,47,0	5.21e-04	3.71e-04	1.89e-03	47,47,47			0.0	0.0	0.0
2630	0.0	6.56e-03	0.0	0,47,0	1.13e-04	6.18e-04	3.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.12e-03	0.0	0,47,0	1.11e-04	2.68e-05	1.44e-03	47,47,47			0.0	0.0	0.0
2647	0.0	6.56e-03	0.0	0,47,0	6.20e-04	2.91e-05	3.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.63e-03	0.0	0,47,0	6.15e-04	9.86e-05	1.34e-03	47,47,47			0.0	0.0	0.0
2697	0.0	4.23e-03	0.0	0,47,0	6.20e-04	0.0	2.43e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.92e-03	0.0	0,47,0	6.15e-04	9.86e-05	1.18e-03	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	6.56e-03	0.0		6.20e-04	0.05	3.95e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
80	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
33	0.0	5.28e-03	0.0	0,47,0	1.65e-06	4.69e-04	1.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.35e-04	0.0	0,47,0	1.03e-06	6.42e-04	8.06e-04	47,47,47			0.0	0.0	0.0
62	0.0	0.01	0.0	0,47,0	1.65e-06	4.69e-04	4.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.64e-04	7.35e-04	0.0	47,47,0	1.03e-06	7.91e-04	8.06e-04	47,47,47			1.00	0.07	0.93
70	0.0	0.01	0.0	0,47,0	1.35e-06	6.10e-04	5.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.64e-04	8.41e-04	0.0	47,47,0	0.0	7.91e-04	4.80e-04	47,47,47			1.00	0.07	0.93
79	0.0	0.02	0.0	0,47,0	0.0	6.94e-04	7.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.09e-04	8.41e-04	0.0	47,47,0	0.0	6.24e-04	4.59e-04	47,47,47			1.00	0.07	0.93
87	0.0	0.04	0.0	0,47,0	2.94e-06	6.94e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.04e-04	0.0	0,47,0	2.25e-06	7.97e-04	8.99e-04	47,47,47			0.0	0.0	0.0
98	0.0	0.04	0.0	0,47,0	2.94e-06	2.40e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.77e-04	0.0	0,47,0	2.25e-06	7.97e-04	8.99e-04	47,47,47			0.0	0.0	0.0
502	0.0	6.51e-03	0.0	0,47,0	2.65e-06	5.42e-04	2.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.22e-04	1.20e-03	0.0	47,47,0	1.88e-06	1.41e-03	1.20e-03	47,47,47			1.00	0.07	0.93
531	0.0	0.01	0.0	0,47,0	3.08e-06	6.25e-04	4.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.19e-03	2.44e-03	0.0	47,47,0	2.60e-06	3.54e-03	1.20e-03	47,47,47			1.00	0.07	0.93
539	0.0	0.01	0.0	0,47,0	3.08e-06	8.75e-04	6.11e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.19e-03	2.72e-03	0.0	47,47,0	2.60e-06	3.54e-03	1.21e-03	47,47,47			1.00	0.07	0.93
548	0.0	0.02	0.0	0,47,0	1.44e-06	8.75e-04	7.90e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.70e-03	2.72e-03	0.0	47,47,0	0.0	2.95e-03	1.21e-03	47,47,47			1.00	0.07	0.93
556	0.0	0.04	0.0	0,47,0	6.60e-06	7.74e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.76e-04	1.98e-03	0.0	47,47,0	5.63e-06	1.00e-03	9.19e-04	47,47,47			1.00	0.07	0.93
567	0.0	0.04	0.0	0,47,0	6.60e-06	6.97e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.51e-04	0.0	0,47,0	5.63e-06	7.97e-04	8.99e-04	47,47,47			0.0	0.0	0.0
862	0.0	8.61e-03	0.0	0,47,0	6.15e-06	5.42e-04	3.59e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



889	2.45e-03 0.0	2.44e-03 0.01	0.0 0.0	47,47,0 0,47,0	5.70e-06 6.39e-06	3.92e-03 1.48e-03	2.87e-03 6.20e-03	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
897	4.68e-03 0.0	4.78e-03 0.02	0.0 0.0	47,47,0 0,47,0	5.88e-06 6.39e-06	7.47e-03 1.66e-03	2.87e-03 7.64e-03	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
906	4.68e-03 0.0	4.78e-03 0.02	0.0 0.0	47,47,0 0,47,0	5.88e-06 3.82e-06	7.47e-03 1.66e-03	2.23e-03 7.90e-03	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
914	2.58e-03 0.0	4.19e-03 0.03	0.0 0.0	47,47,0 0,47,0	3.09e-06 3.22e-05	4.52e-03 7.74e-04	1.91e-03 0.01	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
925	3.76e-04 0.0	2.81e-03 0.03	0.0 0.0	47,47,0 0,47,0	3.14e-05 3.22e-05	1.00e-03 6.97e-04	1.56e-03 0.01	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
1273	5.43e-04 2.45e-03	0.01 2.44e-03	0.0 0.0	47,47,0 47,47,0	2.46e-05 2.13e-05	5.61e-03 6.94e-03	0.01 7.17e-03	47,47,47 47,47,47	0.0 0	0.97 1.00	0.05 0.07	0.95 0.93
1299	2.45e-03 0.02	2.44e-03 0.02	0.0 0.0	47,47,0 47,47,0	2.46e-05 2.13e-05	0.02 9.46e-03	0.01 7.17e-03	47,47,47 47,47,47	0.0 0	0.97 1.00	0.05 0.07	0.95 0.93
1306	6.12e-03 0.02	4.83e-03 0.02	0.0 0.0	47,47,0 47,47,0	1.42e-05 1.03e-05	0.02 9.46e-03	0.01 5.14e-03	47,47,47 47,47,47	0.0 0	0.97 1.00	0.05 0.07	0.95 0.93
1315	6.12e-03 4.56e-03	4.83e-03 0.02	0.0 0.0	47,47,0 47,47,0	1.03e-05 5.68e-06	9.46e-03 4.59e-03	5.14e-03 7.87e-03	47,47,47 47,47,47	0.0 0	0.97 0.97	0.05 0.05	0.95 0.95
1322	2.58e-03 0.0	4.19e-03 0.03	0.0 0.0	47,47,0 0,47,0	5.10e-06 7.73e-05	4.52e-03 1.17e-03	1.91e-03 0.01	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
1337	2.60e-03 0.0	2.81e-03 0.03	0.0 0.0	47,47,0 0,47,0	7.27e-05 7.73e-05	4.28e-03 1.17e-03	1.56e-03 0.01	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
1762	2.60e-03 5.29e-03	1.78e-03 0.01	0.0 0.0	47,47,0 47,47,0	7.27e-05 2.46e-05	4.28e-03 8.15e-03	1.40e-03 0.01	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
1791	6.29e-03 0.02	3.72e-03 0.04	0.0 0.0	47,47,0 47,47,0	2.13e-05 7.79e-05	9.42e-03 0.05	7.17e-03 0.05	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
1804	7.09e-03 0.02	4.83e-03 0.04	0.0 0.0	47,47,0 47,47,0	2.13e-05 7.79e-05	0.02 0.05	7.17e-03 0.05	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
1819	7.09e-03 0.02	4.83e-03 0.03	0.0 0.0	47,47,0 47,47,0	1.03e-05 4.67e-05	0.02 0.03	5.63e-03 0.04	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
1832	2.44e-03 6.06e-03	9.42e-04 0.03	0.0 0.0	47,47,0 47,47,0	1.01e-05 1.04e-04	3.60e-03 0.02	1.48e-03 0.02	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
1853	6.06e-03 2.67e-03	0.03 0.0	0.0 0.0	47,0,0 0,47,0	1.04e-04 1.04e-04	0.02 8.17e-03	0.02 0.01	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
2368	2.67e-03 5.29e-03	0.0 0.01	0.0 0.0	47,0,0 47,47,0	9.90e-05 8.15e-06	4.66e-03 8.15e-03	1.58e-03 0.01	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
2468	6.29e-03 0.02	3.72e-03 0.04	0.0 0.0	47,47,0 47,47,0	6.00e-06 7.79e-05	9.42e-03 0.05	6.07e-03 0.05	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
2486	7.09e-03 0.02	3.98e-03 0.04	0.0 0.0	47,47,0 47,47,0	6.00e-06 7.79e-05	0.02 0.05	6.07e-03 0.05	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
2556	7.09e-03 0.02	3.98e-03 0.03	0.0 0.0	47,47,0 47,47,0	1.70e-06 4.67e-05	0.02 0.03	5.63e-03 0.04	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
2572	2.44e-03 6.06e-03	0.0 0.03	0.0 0.0	47,0,0 47,47,0	1.01e-05 1.04e-04	3.60e-03 0.02	1.48e-03 0.02	47,47,47 47,47,47	0.0 0	1.00 0.97	0.07 0.05	0.93 0.95
2596	6.06e-03 2.67e-03	0.03 0.0	0.0 0.0	47,0,0 0,47,0	9.90e-05 1.04e-04	4.66e-03 8.17e-03	1.58e-03 0.01	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
	2.67e-03 0.0	0.0 0.02	0.0 0.0	47,0,0 47,0,0	9.90e-05 9.90e-05	4.66e-03 4.66e-03	1.58e-03 1.58e-03	47,47,47 47,47,47	0.0 0	1.00 0.0	0.07 0.0	0.93 0.0
Nodo	V. 127 0.02	V. 128 0.04	V. 545 0.0		V. 129 1.04e-04	V. 130 0.05	V. 131 0.05		V. D.26 0.0			

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
81	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	5.8 cm	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1331	0.02	0.0	0.0	47,0,0	5.83e-04	0.06	2.80e-03	47,47,47	0.0	0	1.00	0.59	0.41
1346	0.0	4.01e-03	0.0	0,47,0	5.51e-04	4.66e-05	1.16e-03	47,47,47	0.0	0	1.00	0.0	0.0
1354	0.03	0.0	0.0	0,47,0	5.51e-04	8.79e-05	1.16e-03	47,47,47	0.0	0	1.00	0.0	0.0
1362	0.03	0.0	0.0	0,47,0	6.08e-05	0.05	7.26e-05	47,47,47	0.0	0	1.00	0.59	0.41
1391	0.0	1.70e-03	0.0	0,47,0	5.81e-05	8.79e-05	5.67e-04	47,47,47	0.0	0	1.00	0.0	0.0
1847	0.02	0.0	0.0	47,0,0	3.91e-04	0.04	4.26e-05	47,47,47	0.0	0	1.00	0.59	0.41
1863	0.0	3.30e-03	0.0	0,47,0	3.82e-04	6.01e-05	9.89e-04	47,47,47	0.0	0	1.00	0.0	0.0
	0.02	0.0	0.0	47,0,0	3.91e-04	0.02	2.76e-05	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	3.30e-03	0.0	0,47,0	3.82e-04	6.01e-05	9.89e-04	47,47,47	0.0	0	1.00	0.0	0.0
	0.02	0.0	0.0	47,0,0	6.57e-04	0.06	2.80e-03	47,47,47	0.0	0	1.00	0.59	0.41
	0.0	6.13e-03	0.0	0,47,0	6.43e-04	3.07e-04	1.92e-03	47,47,47	0.0	0	1.00	0.0	0.0
	0.03	3.33e-03	0.0	47,47,0	6.57e-04	0.06	2.80e-03	47,47,47	0.0	0	1.00	0.59	0.41

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	3.77e-03	0.0	0.0	47,0,0	7.37e-06	4.46e-03	4.02e-05	47,47,47			1.00	0.07	0.93
2550	0.0	5.76e-04	0.0	0,47,0	1.43e-05	4.24e-06	2.65e-04	47,47,47	0.0	0	0.0	0.0	0.0
	9.13e-04	1.76e-03	0.0	47,47,0	1.42e-05	1.11e-03	5.48e-04	47,47,47			1.00	0.07	0.93
2551	0.0	5.76e-04	0.0	0,47,0	1.43e-05	3.06e-06	2.65e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.76e-03	0.0	0,47,0	1.42e-05	7.91e-05	5.48e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	5.14e-03	4.99e-03	0.0		1.95e-05	6.09e-03	2.38e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
84	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
19	0.0	0.01	0.0	0,47,0	0.0	8.13e-05	3.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.32e-04	0.0	0,47,0	0.0	1.40e-04	1.73e-04	47,47,47			0.0	0.0	0.0
20	0.0	0.01	0.0	0,47,0	0.0	8.13e-05	3.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.32e-04	0.0	0,47,0	0.0	1.40e-04	1.73e-04	47,47,47			0.0	0.0	0.0
21	0.0	4.94e-03	0.0	0,47,0	0.0	6.98e-05	1.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.88e-05	0.0	0.0	47,0,0	0.0	1.22e-04	4.77e-05	47,47,47			1.00	0.07	0.93
22	0.0	5.10e-03	0.0	0,47,0	0.0	6.98e-05	1.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.88e-05	2.61e-05	0.0	47,47,0	0.0	1.22e-04	4.77e-05	47,47,47			1.00	0.07	0.93
23	0.0	6.36e-03	0.0	0,47,0	0.0	1.31e-05	2.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.76e-05	0.0	0,47,0	0.0	1.77e-05	3.35e-05	47,47,47			0.0	0.0	0.0
24	0.0	6.36e-03	0.0	0,47,0	0.0	1.31e-05	2.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.76e-05	0.0	0,47,0	0.0	1.77e-05	3.35e-05	47,47,47			0.0	0.0	0.0
488	0.0	0.01	0.0	0,47,0	0.0	8.13e-05	3.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.32e-04	0.0	0,47,0	0.0	1.40e-04	1.73e-04	47,47,47			0.0	0.0	0.0
489	0.0	0.01	0.0	0,47,0	0.0	8.13e-05	3.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.32e-04	0.0	0,47,0	0.0	1.40e-04	1.73e-04	47,47,47			0.0	0.0	0.0
490	0.0	5.01e-03	0.0	0,47,0	0.0	6.98e-05	1.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.88e-05	2.65e-05	0.0	47,47,0	0.0	1.22e-04	4.77e-05	47,47,47			1.00	0.07	0.93
491	0.0	5.10e-03	0.0	0,47,0	0.0	6.98e-05	1.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.88e-05	1.41e-04	0.0	47,47,0	0.0	1.22e-04	4.77e-05	47,47,47			1.00	0.07	0.93
492	0.0	6.36e-03	0.0	0,47,0	0.0	2.06e-05	2.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.63e-04	0.0	0,47,0	0.0	1.77e-05	4.67e-05	47,47,47			0.0	0.0	0.0
493	0.0	6.36e-03	0.0	0,47,0	0.0	2.06e-05	2.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.63e-04	0.0	0,47,0	0.0	1.77e-05	4.67e-05	47,47,47			0.0	0.0	0.0
849	0.0	8.70e-03	0.0	0,47,0	0.0	1.05e-04	2.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-04	1.13e-04	0.0	47,47,0	0.0	1.99e-04	3.28e-05	47,47,47			1.00	0.07	0.93
850	0.0	8.70e-03	0.0	0,47,0	0.0	1.05e-04	2.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.23e-04	1.13e-04	0.0	47,47,0	0.0	1.99e-04	3.28e-05	47,47,47			1.00	0.07	0.93
851	0.0	5.51e-03	0.0	0,47,0	1.94e-06	7.43e-06	1.73e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.48e-04	0.0	0,47,0	1.93e-06	1.02e-05	7.89e-05	47,47,47			0.0	0.0	0.0
852	0.0	5.51e-03	0.0	0,47,0	1.94e-06	1.27e-05	1.73e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.48e-04	0.0	0,47,0	1.93e-06	1.02e-05	7.89e-05	47,47,47			0.0	0.0	0.0
853	0.0	6.12e-03	0.0	0,47,0	0.0	2.06e-05	1.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.17e-04	0.0	0,47,0	0.0	1.34e-05	6.48e-05	47,47,47			0.0	0.0	0.0
854	0.0	6.12e-03	0.0	0,47,0	0.0	2.06e-05	1.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.63e-04	0.0	0,47,0	0.0	1.34e-05	4.67e-05	47,47,47			0.0	0.0	0.0
1260	0.0	6.37e-03	0.0	0,47,0	0.0	1.62e-04	2.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.86e-04	0.0	0.0	47,0,0	0.0	3.62e-04	3.19e-05	47,47,47			1.00	0.07	0.93
1261	0.0	6.37e-03	0.0	0,47,0	2.07e-06	1.62e-04	2.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.86e-04	1.24e-04	0.0	47,47,0	2.04e-06	3.62e-04	9.18e-05	47,47,47			1.00	0.07	0.93
1262	0.0	5.51e-03	0.0	0,47,0	2.07e-06	2.24e-05	1.73e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.48e-04	0.0	0,47,0	2.04e-06	6.01e-05	9.18e-05	47,47,47			0.0	0.0	0.0
1263	0.0	5.51e-03	0.0	0,47,0	1.94e-06	1.27e-05	1.73e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.48e-04	0.0	0,47,0	1.93e-06	9.86e-06	7.89e-05	47,47,47			0.0	0.0	0.0
1264	0.0	5.31e-03	0.0	0,47,0	0.0	7.02e-05	1.68e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.17e-04	0.0	0,47,0	0.0	1.34e-05	6.48e-05	47,47,47			0.0	0.0	0.0
1265	0.0	5.31e-03	0.0	0,47,0	0.0	7.02e-05	1.68e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.74e-05	0.0	0,47,0	0.0	1.34e-05	3.08e-05	47,47,47			0.0	0.0	0.0
1743	0.0	3.45e-03	0.0	0,47,0	3.30e-06	2.53e-04	1.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.88e-04	1.83e-04	0.0	47,47,0	3.30e-06	8.86e-04	6.64e-04	47,47,47			1.00	0.07	0.93
1744	0.0	3.45e-03	0.0	0,47,0	3.30e-06	2.53e-04	1.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.88e-04	1.83e-04	0.0	47,47,0	3.30e-06	8.86e-04	6.64e-04	47,47,47			1.00	0.07	0.93
1745	0.0	4.35e-03	0.0	0,47,0	2.07e-06	4.62e-05	1.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.18e-04	1.76e-04	0.0	47,47,0	2.04e-06	8.93e-04	9.18e-05	47,47,47			1.00	0.07	0.93
1746	0.0	4.35e-03	0.0	0,47,0	1.26e-06	1.17e-05	1.37e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO

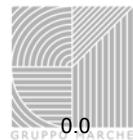


1747	1.01e-03	1.76e-04	0.0	47,47,0	1.25e-06	1.28e-03	5.92e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	4.46e-03	0.0	0,47,0	0.0	1.28e-04	1.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
1748	1.01e-03	4.58e-06	0.0	47,47,0	0.0	1.28e-03	9.26e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	4.46e-03	0.0	0,47,0	0.0	1.28e-04	1.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
2354	9.25e-04	4.58e-06	0.0	47,47,0	0.0	1.16e-03	9.26e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.30e-03	0.0	0,47,0	3.30e-06	2.53e-04	1.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
2355	3.88e-04	1.83e-04	0.0	47,47,0	3.30e-06	8.86e-04	6.64e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.30e-03	0.0	0,47,0	3.30e-06	2.53e-04	1.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
2356	3.88e-04	1.83e-04	0.0	47,47,0	3.30e-06	8.86e-04	6.64e-04	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	2.15e-03	0.0	0,47,0	1.36e-06	4.62e-05	7.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
2357	7.18e-04	0.0	0.0	47,0,0	1.35e-06	8.93e-04	2.68e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	2.15e-03	0.0	0,47,0	0.0	9.36e-06	7.48e-04	47,47,47	0.0	0	0.0	0.0	0.0
2358	1.01e-03	0.0	0.0	47,0,0	0.0	1.28e-03	5.92e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.80e-03	0.0	0,47,0	0.0	1.28e-04	1.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
2359	1.01e-03	0.0	0.0	47,0,0	0.0	1.28e-03	9.26e-05	47,47,47	0.0	0	1.00	0.07	0.93
	0.0	3.80e-03	0.0	0,47,0	0.0	1.28e-04	1.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.25e-04	0.0	0.0	47,0,0	0.0	1.16e-03	9.26e-05	47,47,47	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.01e-03	0.01	0.0		3.30e-06	1.28e-03	3.55e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo cm	Incoll.	Stato
85	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
19	0.0	0.01	0.0	0,47,0	0.0	1.30e-05	3.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.96e-04	0.0	0,47,0	0.0	1.64e-05	1.28e-04	47,47,47	0.0	0	0.0	0.0	0.0
57	0.0	0.03	0.0	0,47,0	0.0	1.30e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.73e-05	3.96e-04	0.0	47,47,0	0.0	9.61e-05	1.28e-04	47,47,47	0.0	0	1.00	0.08	0.92
66	0.0	0.04	0.0	0,47,0	0.0	7.41e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.73e-05	2.52e-05	0.0	47,47,0	0.0	9.61e-05	9.19e-06	47,47,47	0.0	0	1.00	0.08	0.92
74	0.0	0.05	0.0	0,47,0	0.0	4.14e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.67e-06	2.52e-05	0.0	47,47,0	0.0	5.20e-06	9.19e-06	47,47,47	0.0	0	1.00	0.08	0.92
82	0.0	0.05	0.0	0,47,0	0.0	4.14e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.67e-06	0.0	0.0	47,0,0	0.0	5.20e-06	3.08e-06	47,47,47	0.0	0	1.00	0.08	0.92
91	0.0	0.04	0.0	0,47,0	5.36e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.20e-05	0.0	0.0	47,0,0	5.10e-06	1.09e-04	1.39e-06	47,47,47	0.0	0	1.00	0.08	0.92
100	0.0	0.04	0.0	0,47,0	6.41e-06	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.20e-05	0.0	0.0	47,0,0	6.21e-06	1.09e-04	1.39e-06	47,47,47	0.0	0	1.00	0.08	0.92
106	0.0	0.04	0.0	0,47,0	6.41e-06	1.64e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.02e-04	0.0	0.0	47,0,0	6.21e-06	2.38e-04	1.04e-06	47,47,47	0.0	0	1.00	0.08	0.92
113	0.0	0.04	0.0	0,47,0	6.20e-06	1.64e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.64e-04	0.0	0.0	47,0,0	6.03e-06	7.83e-04	0.0	47,47,47	0.0	0	1.00	0.08	0.92
119	0.0	0.04	0.0	0,47,0	7.65e-06	1.08e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.64e-04	2.11e-05	0.0	47,47,0	7.64e-06	7.83e-04	1.00e-05	47,47,47	0.0	0	1.00	0.08	0.92
138	0.0	0.01	0.0	0,47,0	7.65e-06	0.0	4.32e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.11e-05	0.0	0,47,0	7.64e-06	4.25e-06	1.00e-05	47,47,47	0.0	0	0.0	0.0	0.0
488	0.0	0.02	0.0	0,47,0	0.0	1.30e-05	4.73e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.96e-04	0.0	0,47,0	0.0	2.45e-05	1.28e-04	47,47,47	0.0	0	0.0	0.0	0.0
526	0.0	0.03	0.0	0,47,0	0.0	1.30e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.73e-05	3.96e-04	0.0	47,47,0	0.0	9.61e-05	1.28e-04	47,47,47	0.0	0	1.00	0.08	0.92
535	0.0	0.04	0.0	0,47,0	0.0	7.41e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.73e-05	6.80e-05	0.0	47,47,0	0.0	9.61e-05	2.48e-05	47,47,47	0.0	0	1.00	0.08	0.92
543	0.0	0.05	0.0	0,47,0	1.12e-06	4.14e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.67e-06	6.80e-05	0.0	47,47,0	0.0	7.78e-06	2.48e-05	47,47,47	0.0	0	1.00	0.08	0.92
551	0.0	0.05	0.0	0,47,0	1.12e-06	4.14e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.67e-06	2.33e-05	0.0	47,47,0	0.0	5.20e-06	9.97e-06	47,47,47	0.0	0	1.00	0.08	0.92
560	0.0	0.04	0.0	0,47,0	5.36e-06	1.14e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.20e-05	3.06e-05	0.0	47,47,0	5.10e-06	1.09e-04	9.19e-06	47,47,47	0.0	0	1.00	0.08	0.92
569	0.0	0.04	0.0	0,47,0	6.41e-06	1.14e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.20e-05	3.06e-05	0.0	47,47,0	6.21e-06	1.09e-04	9.19e-06	47,47,47	0.0	0	1.00	0.08	0.92
575	0.0	0.04	0.0	0,47,0	6.41e-06	1.64e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.18e-04	1.64e-05	0.0	47,47,0	6.21e-06	2.58e-04	4.73e-06	47,47,47	0.0	0	1.00	0.08	0.92
582	0.0	0.04	0.0	0,47,0	6.20e-06	2.01e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.64e-04	0.0	0.0	47,0,0	6.03e-06	7.83e-04	2.97e-06	47,47,47	0.0	0	1.00	0.08	0.92
588	0.0	0.04	0.0	0,47,0	7.65e-06	2.01e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.64e-04	2.11e-05	0.0	47,47,0	7.64e-06	7.83e-04	1.00e-05	47,47,47	0.0	0	1.00	0.08	0.92
607	0.0	0.02	0.0	0,47,0	7.65e-06	1.61e-06	6.03e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

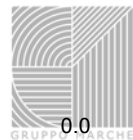


2559	0.0	0.03	0.0	0,47,0	1.78e-05	3.48e-06	8.73e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.40e-04	3.73e-04	0.0	47,47,0	1.77e-05	1.71e-04	1.13e-04	47,47,47			1.00	0.08	0.92
2576	0.0	0.03	0.0	0,47,0	2.35e-05	1.91e-06	8.41e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.73e-04	0.0	0,47,0	2.34e-05	8.39e-06	1.13e-04	47,47,47			0.0	0.0	0.0
2603	0.0	0.03	0.0	0,47,0	2.35e-05	1.91e-06	8.41e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.52e-04	1.90e-04	0.0	47,47,0	2.34e-05	3.00e-04	5.42e-05	47,47,47			1.00	0.08	0.92
2616	0.0	0.03	0.0	0,47,0	2.79e-06	0.0	7.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.60e-04	0.0	0.0	47,0,0	2.70e-06	4.27e-04	4.62e-06	47,47,47			1.00	0.08	0.92
2633	0.0	0.03	0.0	0,47,0	0.0	2.72e-06	7.85e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.60e-04	0.0	0.0	47,0,0	0.0	4.27e-04	7.39e-06	47,47,47			1.00	0.08	0.92
2650	0.0	0.02	0.0	0,47,0	2.31e-06	2.72e-06	7.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-04	2.35e-04	0.0	47,47,0	2.28e-06	3.13e-04	7.02e-05	47,47,47			1.00	0.08	0.92
2677	0.0	0.02	0.0	0,47,0	2.31e-06	1.73e-06	5.90e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.35e-04	0.0	0,47,0	2.28e-06	4.20e-06	7.02e-05	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.90e-03	0.05	0.0		3.12e-05	2.23e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
86	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
24	0.0	7.53e-03	0.0	0,47,0	0.0	2.98e-05	2.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.11e-05	0.0	0,47,0	0.0	1.17e-05	2.55e-05	47,47,47			0.0	0.0	0.0
25	0.0	7.53e-03	0.0	0,47,0	0.0	2.98e-05	2.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.51e-04	0.0	0,47,0	0.0	1.17e-05	4.29e-05	47,47,47			0.0	0.0	0.0
26	0.0	8.46e-04	0.0	0,47,0	0.0	2.96e-06	2.97e-04	47,47,47	0.0	0	0.0	0.0	0.0
	9.86e-05	1.51e-04	0.0	47,47,0	0.0	1.22e-04	4.29e-05	47,47,47			1.00	0.07	0.93
27	0.0	2.80e-03	0.0	0,47,0	0.0	2.51e-06	9.76e-04	47,47,47	0.0	0	0.0	0.0	0.0
	1.21e-04	0.0	0.0	47,0,0	0.0	1.55e-04	1.45e-05	47,47,47			1.00	0.07	0.93
28	0.0	3.64e-03	0.0	0,47,0	0.0	2.10e-05	1.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.21e-04	8.65e-06	0.0	47,47,0	0.0	1.55e-04	2.54e-05	47,47,47			1.00	0.07	0.93
29	0.0	4.89e-03	0.0	0,47,0	0.0	2.10e-05	1.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.82e-06	9.84e-05	0.0	47,47,0	0.0	2.82e-05	3.55e-05	47,47,47			1.00	0.07	0.93
30	0.0	6.62e-03	0.0	0,47,0	0.0	4.22e-05	2.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.35e-04	0.0	0,47,0	0.0	3.40e-05	6.56e-05	47,47,47			0.0	0.0	0.0
31	0.0	0.01	0.0	0,47,0	0.0	5.92e-05	3.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.54e-04	0.0	0,47,0	0.0	3.40e-05	7.31e-05	47,47,47			0.0	0.0	0.0
32	0.0	0.01	0.0	0,47,0	0.0	5.92e-05	3.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.54e-04	0.0	0,47,0	0.0	3.21e-05	7.31e-05	47,47,47			0.0	0.0	0.0
493	0.0	7.53e-03	0.0	0,47,0	0.0	3.64e-05	2.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.59e-04	0.0	0,47,0	0.0	1.17e-05	4.66e-05	47,47,47			0.0	0.0	0.0
494	0.0	7.53e-03	0.0	0,47,0	0.0	3.64e-05	2.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.59e-04	0.0	0,47,0	0.0	1.17e-05	4.66e-05	47,47,47			0.0	0.0	0.0
495	0.0	8.46e-04	0.0	0,47,0	0.0	2.96e-06	2.97e-04	47,47,47	0.0	0	0.0	0.0	0.0
	9.86e-05	1.51e-04	0.0	47,47,0	0.0	1.22e-04	4.29e-05	47,47,47			1.00	0.07	0.93
496	0.0	2.80e-03	0.0	0,47,0	0.0	6.88e-06	9.76e-04	47,47,47	0.0	0	0.0	0.0	0.0
	1.21e-04	2.01e-05	0.0	47,47,0	0.0	1.55e-04	1.45e-05	47,47,47			1.00	0.07	0.93
497	0.0	3.64e-03	0.0	0,47,0	0.0	2.10e-05	1.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.21e-04	9.54e-05	0.0	47,47,0	0.0	1.55e-04	5.18e-05	47,47,47			1.00	0.07	0.93
498	0.0	4.89e-03	0.0	0,47,0	0.0	2.10e-05	1.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.82e-06	2.41e-04	0.0	47,47,0	0.0	9.39e-05	1.45e-04	47,47,47			1.00	0.07	0.93
499	0.0	6.62e-03	0.0	0,47,0	0.0	5.44e-05	2.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.21e-04	0.0	0,47,0	0.0	9.39e-05	1.45e-04	47,47,47			0.0	0.0	0.0
500	0.0	0.01	0.0	0,47,0	0.0	1.01e-04	3.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.21e-04	0.0	0,47,0	0.0	9.04e-05	1.31e-04	47,47,47			0.0	0.0	0.0
501	0.0	0.01	0.0	0,47,0	0.0	1.01e-04	3.26e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.54e-04	0.0	0,47,0	0.0	4.73e-05	7.31e-05	47,47,47			0.0	0.0	0.0
854	0.0	7.19e-03	0.0	0,47,0	0.0	3.64e-05	2.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.59e-04	0.0	0,47,0	0.0	1.93e-05	4.66e-05	47,47,47			0.0	0.0	0.0
855	0.0	7.19e-03	0.0	0,47,0	0.0	3.64e-05	2.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.59e-04	0.0	0,47,0	0.0	1.93e-05	4.66e-05	47,47,47			0.0	0.0	0.0
856	0.0	2.65e-03	0.0	0,47,0	0.0	6.88e-06	9.31e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.82e-05	0.0	0,47,0	0.0	1.93e-06	2.30e-05	47,47,47			0.0	0.0	0.0
857	0.0	3.14e-03	0.0	0,47,0	0.0	1.83e-05	1.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.22e-04	0.0	0,47,0	0.0	2.68e-05	7.10e-05	47,47,47			0.0	0.0	0.0
858	0.0	3.70e-03	0.0	0,47,0	0.0	6.55e-05	1.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.31e-04	0.0	0,47,0	0.0	9.39e-05	1.45e-04	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



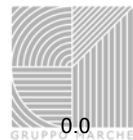
859	0.0	5.98e-03	0.0	0,47,0	0.0	1.79e-04	1.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.76e-04	0.0	0,47,0	0.0	6.90e-04	7.98e-04	47,47,47			0.0	0.0	0.0
860	0.0	9.21e-03	0.0	0,47,0	0.0	5.61e-04	3.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.41e-04	9.31e-04	0.0	47,47,0	0.0	1.10e-03	7.98e-04	47,47,47			1.00	0.07	0.93
861	0.0	9.21e-03	0.0	0,47,0	0.0	5.61e-04	3.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.41e-04	9.31e-04	0.0	47,47,0	0.0	1.10e-03	6.71e-04	47,47,47			1.00	0.07	0.93
1265	0.0	6.38e-03	0.0	0,47,0	0.0	9.71e-05	2.02e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.36e-04	2.27e-05	0.0	47,47,0	0.0	1.63e-04	1.04e-05	47,47,47			1.00	0.07	0.93
1266	0.0	6.38e-03	0.0	0,47,0	0.0	9.71e-05	2.02e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.36e-04	2.27e-05	0.0	47,47,0	0.0	1.63e-04	1.04e-05	47,47,47			1.00	0.07	0.93
1267	0.0	2.44e-03	0.0	0,47,0	2.28e-06	2.18e-06	8.53e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.83e-04	0.0	0,47,0	2.27e-06	2.33e-06	1.10e-04	47,47,47			0.0	0.0	0.0
1268	0.0	2.44e-03	0.0	0,47,0	2.28e-06	1.83e-05	8.53e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.67e-04	0.0	0,47,0	2.27e-06	1.03e-05	1.70e-04	47,47,47			0.0	0.0	0.0
1269	0.0	2.85e-03	0.0	0,47,0	1.94e-06	6.55e-05	1.06e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.32e-04	0.0	0,47,0	1.93e-06	9.47e-05	3.17e-04	47,47,47			0.0	0.0	0.0
1270	0.0	4.17e-03	0.0	0,47,0	0.0	5.24e-04	1.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.50e-03	0.0	0,47,0	0.0	6.90e-04	7.98e-04	47,47,47			0.0	0.0	0.0
1271	0.0	9.99e-03	0.0	0,47,0	5.67e-06	3.52e-03	7.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.41e-04	2.63e-03	0.0	47,47,0	4.66e-06	2.16e-03	2.65e-03	47,47,47			1.00	0.07	0.93
1272	0.0	9.99e-03	0.0	0,47,0	5.67e-06	3.52e-03	7.47e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.41e-04	2.63e-03	0.0	47,47,0	4.66e-06	2.16e-03	2.65e-03	47,47,47			1.00	0.07	0.93
1748	0.0	4.28e-03	0.0	0,47,0	0.0	2.22e-04	1.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.18e-03	0.0	0.0	47,0,0	0.0	1.50e-03	1.24e-04	47,47,47			1.00	0.07	0.93
1749	0.0	4.28e-03	0.0	0,47,0	0.0	2.22e-04	1.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.37e-03	0.0	0.0	47,0,0	0.0	1.66e-03	1.24e-04	47,47,47			1.00	0.07	0.93
1750	0.0	4.95e-04	0.0	0,47,0	2.68e-06	1.41e-05	1.78e-04	47,47,47	0.0	0	0.0	0.0	0.0
	1.37e-03	1.77e-04	0.0	47,47,0	2.66e-06	1.66e-03	8.03e-05	47,47,47			1.00	0.07	0.93
1751	0.0	2.44e-03	0.0	0,47,0	2.68e-06	1.30e-05	8.53e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.02e-04	0.0	0,47,0	2.66e-06	3.09e-05	1.44e-04	47,47,47			0.0	0.0	0.0
1752	0.0	2.44e-03	0.0	0,47,0	2.43e-06	1.30e-05	8.53e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.67e-04	0.0	0,47,0	2.41e-06	2.36e-05	1.70e-04	47,47,47			0.0	0.0	0.0
1753	0.0	2.09e-03	0.0	0,47,0	2.43e-06	6.10e-05	6.80e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.32e-04	0.0	0,47,0	2.43e-06	1.03e-04	3.17e-04	47,47,47			0.0	0.0	0.0
1754	0.0	3.01e-03	0.0	0,47,0	2.43e-06	1.01e-03	1.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.50e-03	0.0	0,47,0	2.43e-06	9.64e-04	1.23e-03	47,47,47			0.0	0.0	0.0
1755	4.55e-03	0.01	0.0	47,47,0	9.87e-06	0.01	0.02	47,47,47	0.0	0	0.97	0.05	0.95
	9.32e-04	3.02e-03	0.0	47,47,0	4.66e-06	3.76e-03	4.26e-03	47,47,47			1.00	0.07	0.93
1756	4.55e-03	0.01	0.0	47,47,0	9.87e-06	0.01	0.02	47,47,47	0.0	0	0.97	0.05	0.95
	9.32e-04	3.02e-03	0.0	47,47,0	4.66e-06	3.76e-03	4.26e-03	47,47,47			1.00	0.07	0.93
2359	0.0	3.45e-03	0.0	0,47,0	0.0	2.22e-04	1.43e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.18e-03	0.0	0.0	47,0,0	0.0	1.50e-03	1.24e-04	47,47,47			1.00	0.07	0.93
2360	0.0	3.45e-03	0.0	0,47,0	0.0	2.22e-04	1.43e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.37e-03	0.0	0.0	47,0,0	0.0	1.66e-03	1.24e-04	47,47,47			1.00	0.07	0.93
2361	0.0	4.95e-04	0.0	0,47,0	2.68e-06	1.41e-05	1.78e-04	47,47,47	0.0	0	0.0	0.0	0.0
	1.37e-03	1.77e-04	0.0	47,47,0	2.66e-06	1.66e-03	8.03e-05	47,47,47			1.00	0.07	0.93
2362	0.0	1.85e-03	0.0	0,47,0	2.68e-06	1.30e-05	6.56e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.02e-04	0.0	0,47,0	2.66e-06	3.09e-05	1.44e-04	47,47,47			0.0	0.0	0.0
2363	0.0	1.85e-03	0.0	0,47,0	2.43e-06	1.30e-05	6.56e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.02e-04	0.0	0,47,0	2.41e-06	2.36e-05	1.44e-04	47,47,47			0.0	0.0	0.0
2364	0.0	1.09e-03	0.0	0,47,0	2.43e-06	5.42e-05	4.36e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.97e-04	0.0	0,47,0	2.43e-06	1.03e-04	2.40e-04	47,47,47			0.0	0.0	0.0
2365	0.0	2.30e-03	0.0	0,47,0	2.43e-06	1.01e-03	1.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.17e-03	0.0	0,47,0	2.43e-06	9.64e-04	1.23e-03	47,47,47			0.0	0.0	0.0
2366	4.55e-03	0.01	0.0	47,47,0	9.87e-06	0.01	0.02	47,47,47	0.0	0	0.97	0.05	0.95
	9.32e-04	3.02e-03	0.0	47,47,0	1.57e-06	3.76e-03	4.26e-03	47,47,47			1.00	0.07	0.93
2367	4.55e-03	0.01	0.0	47,47,0	9.87e-06	0.01	0.02	47,47,47	0.0	0	0.97	0.05	0.95
	9.32e-04	3.02e-03	0.0	47,47,0	1.35e-06	3.76e-03	4.26e-03	47,47,47			1.00	0.07	0.93

Nodo V. 127 V. 128 V. 545 V. 129 V. 130 V. 131 V. D.26
 4.55e-03 0.01 0.0 9.87e-06 0.01 0.02 0.0

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
87	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2242	0.0	7.07e-03	0.0	0,47,0	2.28e-05	6.78e-04	5.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.80e-04	0.0	0,47,0	2.15e-05	7.64e-05	1.83e-04	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1167	0.0	0.02	0.0	0,47,0	0.0	7.46e-05	4.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.94e-04	5.25e-05	0.0	47,47,0	0.0	2.54e-04	9.15e-05	47,47,47			1.00	0.07	0.93
1175	0.0	0.01	0.0	0,47,0	0.0	5.39e-05	4.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.70e-04	5.25e-05	0.0	47,47,0	0.0	3.50e-04	1.12e-04	47,47,47			1.00	0.07	0.93
1199	0.0	0.01	0.0	0,47,0	0.0	1.17e-04	4.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.99e-04	4.61e-05	0.0	47,47,0	0.0	3.64e-04	1.12e-04	47,47,47			1.00	0.07	0.93
1201	0.0	0.01	0.0	0,47,0	0.0	1.17e-04	4.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.99e-04	3.02e-04	0.0	47,47,0	0.0	3.64e-04	1.15e-04	47,47,47			1.00	0.07	0.93
1211	0.0	0.01	0.0	0,47,0	0.0	7.40e-05	3.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.14e-05	3.02e-04	0.0	47,47,0	0.0	1.13e-04	1.15e-04	47,47,47			1.00	0.07	0.93
1625	0.0	0.02	0.0	0,47,0	0.0	7.54e-06	4.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.39e-04	0.0	0.0	47,0,0	0.0	2.97e-04	1.49e-05	47,47,47			1.00	0.07	0.93
1626	0.0	0.02	0.0	0,47,0	0.0	1.83e-05	4.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.42e-04	0.0	0.0	47,0,0	0.0	3.25e-04	3.12e-05	47,47,47			1.00	0.07	0.93
1627	0.0	0.02	0.0	0,47,0	0.0	7.46e-05	4.91e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.04e-04	6.05e-05	0.0	47,47,0	0.0	4.24e-04	4.78e-05	47,47,47			1.00	0.07	0.93
1629	0.0	0.02	0.0	0,47,0	0.0	3.72e-04	4.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.04e-04	2.01e-04	0.0	47,47,0	0.0	5.40e-04	3.56e-04	47,47,47			1.00	0.07	0.93
1631	0.0	0.01	0.0	0,47,0	0.0	4.34e-04	4.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.70e-04	2.01e-04	0.0	47,47,0	0.0	5.98e-04	3.95e-04	47,47,47			1.00	0.07	0.93
1655	0.0	0.01	0.0	0,47,0	0.0	4.34e-04	4.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.07e-04	1.47e-04	0.0	47,47,0	0.0	7.07e-04	3.95e-04	47,47,47			1.00	0.07	0.93
1656	0.0	0.01	0.0	0,47,0	1.08e-06	1.17e-04	4.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.07e-04	1.44e-04	0.0	47,47,0	1.03e-06	7.07e-04	1.74e-04	47,47,47			1.00	0.07	0.93
1665	0.0	0.01	0.0	0,47,0	1.08e-06	7.40e-05	3.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.87e-04	1.44e-04	0.0	47,47,0	1.03e-06	2.88e-04	1.74e-04	47,47,47			1.00	0.07	0.93
2177	0.0	0.01	0.0	0,47,0	0.0	4.27e-06	4.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.67e-04	6.87e-05	0.0	47,47,0	0.0	2.13e-04	2.59e-05	47,47,47			1.00	0.07	0.93
2185	0.0	0.01	0.0	0,47,0	0.0	1.83e-05	4.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.40e-04	9.70e-05	0.0	47,47,0	0.0	3.25e-04	3.21e-05	47,47,47			1.00	0.07	0.93
2193	0.0	0.01	0.0	0,47,0	0.0	1.33e-04	4.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.04e-04	2.60e-04	0.0	47,47,0	0.0	4.24e-04	1.12e-04	47,47,47			1.00	0.07	0.93
2201	0.0	0.01	0.0	0,47,0	1.97e-06	5.64e-04	4.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.04e-04	2.60e-04	0.0	47,47,0	1.85e-06	7.07e-04	6.47e-04	47,47,47			1.00	0.07	0.93
2209	0.0	0.01	0.0	0,47,0	1.97e-06	7.54e-04	4.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.70e-04	2.92e-04	0.0	47,47,0	1.85e-06	7.56e-04	8.09e-04	47,47,47			1.00	0.07	0.93
2269	0.0	0.01	0.0	0,47,0	1.06e-06	7.54e-04	4.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.07e-04	5.49e-04	0.0	47,47,0	0.0	7.56e-04	8.09e-04	47,47,47			1.00	0.07	0.93
2279	0.0	0.01	0.0	0,47,0	7.32e-06	2.74e-04	4.28e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.07e-04	5.49e-04	0.0	47,47,0	7.21e-06	7.07e-04	2.20e-04	47,47,47			1.00	0.07	0.93
2289	0.0	0.01	0.0	0,47,0	7.32e-06	1.02e-04	3.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.87e-04	2.36e-04	0.0	47,47,0	7.21e-06	2.88e-04	2.05e-04	47,47,47			1.00	0.07	0.93
2391	0.0	8.52e-03	0.0	0,47,0	7.32e-06	1.02e-04	2.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.36e-04	0.0	0,47,0	7.21e-06	1.46e-04	2.05e-04	47,47,47			0.0	0.0	0.0
2464	0.0	0.01	0.0	0,47,0	7.32e-06	2.74e-04	3.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.49e-04	0.0	0,47,0	7.21e-06	1.46e-04	2.20e-04	47,47,47			0.0	0.0	0.0
2482	0.0	0.01	0.0	0,47,0	1.06e-06	7.54e-04	4.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.49e-04	0.0	0,47,0	0.0	7.56e-04	8.09e-04	47,47,47			0.0	0.0	0.0
2501	0.0	0.01	0.0	0,47,0	1.97e-06	7.54e-04	4.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.33e-04	2.92e-04	0.0	47,47,0	1.85e-06	7.56e-04	8.09e-04	47,47,47			1.00	0.07	0.93
2565	0.0	0.01	0.0	0,47,0	1.97e-06	5.64e-04	4.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.33e-04	2.60e-04	0.0	47,47,0	1.85e-06	7.07e-04	6.47e-04	47,47,47			1.00	0.07	0.93
2583	0.0	0.01	0.0	0,47,0	0.0	1.33e-04	4.14e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.35e-05	2.60e-04	0.0	47,47,0	0.0	1.90e-04	1.12e-04	47,47,47			1.00	0.07	0.93
2606	0.0	0.01	0.0	0,47,0	0.0	4.27e-06	4.14e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.70e-05	0.0	0,47,0	0.0	8.42e-06	3.21e-05	47,47,47			0.0	0.0	0.0
2625	0.0	0.01	0.0	0,47,0	0.0	4.27e-06	3.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.87e-05	0.0	0,47,0	0.0	8.42e-06	2.59e-05	47,47,47			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	5.07e-04	0.02	0.0	7.32e-06	7.56e-04	5.90e-03	0.0

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
90	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
154	0.0	0.08	0.0	0,47,0	1.31e-05	4.11e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.77e-05	0.0	0,47,0	1.23e-05	1.01e-04	1.19e-04	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



1924	5.33e-03	4.00e-03	0.0	47,47,0	6.46e-05	8.16e-03	1.65e-03	47,47,47		0.0	0	1.00	0.08	0.92
	0.0	0.02	0.0	0,47,0	3.76e-05	4.34e-04	5.49e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.64e-03	2.20e-03	0.0	47,47,0	3.67e-05	2.68e-03	2.46e-03	47,47,47		0.0	0	1.00	0.08	0.92
1925	0.0	0.05	0.0	0,47,0	3.76e-05	4.65e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	4.53e-03	3.49e-03	0.0	47,47,0	3.67e-05	6.98e-03	4.53e-03	47,47,47		0.0	0	1.00	0.08	0.92
1926	0.0	0.05	0.0	0,47,0	8.79e-05	1.39e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	4.53e-03	3.49e-03	0.0	47,47,0	8.77e-05	6.98e-03	4.53e-03	47,47,47		0.0	0	1.00	0.08	0.92
1927	0.0	0.04	0.0	0,47,0	8.79e-05	1.39e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	9.33e-04	2.56e-03	0.0	47,47,0	8.77e-05	1.69e-03	1.71e-03	47,47,47		0.0	0	1.00	0.08	0.92
1928	0.0	0.02	0.0	0,47,0	2.31e-05	3.64e-04	5.94e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.62e-04	1.44e-03	0.0	47,47,0	2.26e-05	9.65e-04	8.57e-04	47,47,47		0.0	0	1.00	0.08	0.92
1929	0.0	0.02	0.0	0,47,0	2.88e-05	1.33e-03	6.40e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.62e-04	1.77e-03	0.0	47,47,0	2.86e-05	9.65e-04	1.01e-03	47,47,47		0.0	0	1.00	0.08	0.92
1930	0.0	0.02	0.0	0,47,0	2.88e-05	1.33e-03	6.47e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.77e-03	0.0	0,47,0	2.86e-05	9.89e-04	1.12e-03	47,47,47		0.0	0	0.0	0.0	0.0
1931	0.0	0.02	0.0	0,47,0	2.66e-05	1.30e-03	6.47e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.56e-03	0.0	0,47,0	2.64e-05	9.89e-04	1.12e-03	47,47,47		0.0	0	0.0	0.0	0.0
2697	0.0	0.01	0.0	0,47,0	6.50e-05	6.68e-04	5.35e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.91e-03	1.62e-03	0.0	47,47,0	6.46e-05	4.33e-03	1.38e-03	47,47,47		0.0	0	1.00	0.08	0.92
2698	0.0	0.01	0.0	0,47,0	6.50e-05	6.68e-04	5.35e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.91e-03	1.62e-03	0.0	47,47,0	6.46e-05	4.33e-03	1.38e-03	47,47,47		0.0	0	1.00	0.08	0.92
2699	0.0	0.02	0.0	0,47,0	3.76e-05	4.34e-04	5.49e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	9.77e-04	2.45e-04	0.0	47,47,0	3.67e-05	1.88e-03	1.19e-03	47,47,47		0.0	0	1.00	0.08	0.92
2700	0.0	0.05	0.0	0,47,0	3.76e-05	4.34e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.50e-03	1.29e-03	0.0	47,47,0	3.67e-05	5.89e-03	4.53e-03	47,47,47		0.0	0	1.00	0.08	0.92
2701	0.0	0.05	0.0	0,47,0	8.79e-05	2.61e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.50e-03	1.69e-03	0.0	47,47,0	8.77e-05	5.89e-03	4.53e-03	47,47,47		0.0	0	1.00	0.08	0.92
2702	0.0	0.02	0.0	0,47,0	8.79e-05	3.64e-04	7.52e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	9.33e-04	1.69e-03	0.0	47,47,0	8.77e-05	1.69e-03	1.71e-03	47,47,47		0.0	0	1.00	0.08	0.92
2703	0.0	9.49e-03	0.0	0,47,0	2.31e-05	3.64e-04	3.38e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.62e-04	3.03e-04	0.0	47,47,0	2.26e-05	9.65e-04	4.22e-04	47,47,47		0.0	0	1.00	0.08	0.92
2704	0.0	0.01	0.0	0,47,0	2.88e-05	1.33e-03	5.86e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.62e-04	8.07e-04	0.0	47,47,0	2.86e-05	9.65e-04	1.01e-03	47,47,47		0.0	0	1.00	0.08	0.92
2705	0.0	0.01	0.0	0,47,0	2.88e-05	1.33e-03	5.96e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	8.07e-04	0.0	0,47,0	2.86e-05	9.89e-04	1.12e-03	47,47,47		0.0	0	0.0	0.0	0.0
2706	0.0	0.01	0.0	0,47,0	2.66e-05	1.30e-03	5.96e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.16e-04	0.0	0,47,0	2.64e-05	9.89e-04	1.12e-03	47,47,47		0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	5.33e-03	0.08	0.0		8.79e-05	8.16e-03	0.03		0.0					

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
91	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2219	0.0	4.42e-03	0.0	0,47,0	1.68e-05	3.97e-05	2.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.58e-04	0.0	0,47,0	1.66e-05	2.53e-04	4.81e-04	47,47,47		0	0.0	0.0	0.0
2220	0.0	4.42e-03	0.0	0,47,0	1.68e-05	4.33e-05	2.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.58e-04	0.0	0,47,0	1.66e-05	2.53e-04	4.81e-04	47,47,47		0	0.0	0.0	0.0
2221	1.28e-03	5.14e-04	0.0	47,47,0	6.08e-06	1.53e-03	3.91e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	6.35e-04	0.0	0,47,0	5.78e-06	1.90e-04	3.54e-04	47,47,47		0	0.0	0.0	0.0
2222	1.96e-03	0.0	0.0	47,0,0	1.99e-06	2.33e-03	1.17e-05	47,47,47	0.0	0	0.39	0.12	0.88
	3.57e-05	5.26e-05	0.0	47,47,0	1.78e-06	4.69e-05	4.68e-05	47,47,47		0	1.00	0.07	0.93
2223	1.96e-03	0.0	0.0	47,0,0	1.90e-06	2.33e-03	5.14e-06	47,47,47	0.0	0	0.39	0.12	0.88
	4.40e-05	0.0	0.0	47,0,0	1.68e-06	5.20e-05	5.10e-06	47,47,47		0	1.00	0.07	0.93
2224	1.27e-03	6.24e-04	0.0	47,47,0	6.14e-06	1.51e-03	3.74e-04	47,47,47	0.0	0	0.39	0.12	0.88
	5.64e-05	0.0	0.0	47,0,0	5.76e-06	6.94e-05	4.37e-06	47,47,47		0	1.00	0.07	0.93
2225	0.0	3.04e-03	0.0	0,47,0	1.24e-05	1.00e-04	1.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.74e-05	4.05e-05	0.0	47,47,0	1.20e-05	1.14e-04	2.55e-05	47,47,47		0	1.00	0.07	0.93
2226	0.0	6.94e-03	0.0	0,47,0	2.26e-05	6.53e-04	5.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.74e-05	4.92e-04	0.0	47,47,0	2.14e-05	1.14e-04	1.90e-04	47,47,47		0	1.00	0.07	0.93
2227	0.0	6.94e-03	0.0	0,47,0	2.26e-05	6.53e-04	5.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.92e-04	0.0	0,47,0	2.14e-05	6.28e-05	1.90e-04	47,47,47		0	0.0	0.0	0.0
2511	0.0	4.42e-03	0.0	0,47,0	1.68e-05	3.97e-05	2.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.58e-04	0.0	0,47,0	1.66e-05	2.53e-04	4.81e-04	47,47,47		0	0.0	0.0	0.0
2512	0.0	4.42e-03	0.0	0,47,0	1.68e-05	4.33e-05	2.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.58e-04	0.0	0,47,0	1.66e-05	2.53e-04	4.81e-04	47,47,47		0	0.0	0.0	0.0
2513	1.28e-03	5.14e-04	0.0	47,47,0	6.08e-06	1.53e-03	3.91e-04	47,47,47	0.0	0	0.39	0.12	0.88

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



1001	0.0	1.14e-03	0.0	0,47,0	4.86e-06	4.17e-04	3.78e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.85e-03	0.0	0,47,0	4.91e-06	4.16e-04	3.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.81e-04	1.50e-03	0.0	47,47,0	4.86e-06	1.40e-03	1.64e-03	47,47,47	0.0	0	1.00	0.07	0.93
1002	0.0	0.01	0.0	0,47,0	5.99e-06	4.16e-04	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.01e-03	1.82e-03	0.0	47,47,0	5.62e-06	3.17e-03	1.64e-03	47,47,47	0.0	0	1.00	0.07	0.93
1003	0.0	0.01	0.0	0,47,0	5.99e-06	5.07e-05	3.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.01e-03	1.82e-03	0.0	47,47,0	5.62e-06	3.17e-03	1.63e-03	47,47,47	0.0	0	1.00	0.07	0.93
1416	0.0	0.01	0.0	0,47,0	6.92e-06	3.22e-05	3.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-03	0.0	0,47,0	6.92e-06	1.79e-04	4.42e-04	47,47,47	0.0	0	0.0	0.0	0.0
1417	0.0	0.01	0.0	0,47,0	6.92e-06	3.22e-05	3.52e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.26e-03	0.0	0,47,0	6.92e-06	1.79e-04	4.42e-04	47,47,47	0.0	0	0.0	0.0	0.0
1418	0.0	7.08e-03	0.0	0,47,0	1.39e-06	1.35e-05	2.19e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.49e-03	0.0	0,47,0	1.38e-06	4.29e-05	4.42e-04	47,47,47	0.0	0	0.0	0.0	0.0
1419	0.0	6.06e-03	0.0	0,47,0	0.0	1.11e-05	1.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	0.0	2.17e-05	5.27e-04	47,47,47	0.0	0	0.0	0.0	0.0
1420	0.0	6.85e-03	0.0	0,47,0	2.97e-06	9.95e-05	2.16e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.30e-03	0.0	0,47,0	2.96e-06	6.66e-05	6.87e-04	47,47,47	0.0	0	0.0	0.0	0.0
1421	0.0	6.85e-03	0.0	0,47,0	7.63e-06	4.91e-04	2.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.09e-03	0.0	0,47,0	7.57e-06	5.41e-04	1.35e-03	47,47,47	0.0	0	0.0	0.0	0.0
1422	1.68e-03	6.83e-03	0.0	47,47,0	1.01e-05	1.96e-03	3.06e-03	47,47,47	0.0	0	0.98	0.05	0.95
	5.81e-04	3.09e-03	0.0	47,47,0	9.25e-06	1.53e-03	2.20e-03	47,47,47	0.0	0	1.00	0.07	0.93
1423	0.01	0.02	0.0	47,47,0	3.16e-05	0.02	0.01	47,47,47	0.0	0	0.98	0.05	0.95
	2.01e-03	2.64e-03	0.0	47,47,0	2.71e-05	3.17e-03	2.39e-03	47,47,47	0.0	0	1.00	0.07	0.93
1424	0.01	0.02	0.0	47,47,0	3.16e-05	0.02	0.01	47,47,47	0.0	0	0.98	0.05	0.95
	2.01e-03	1.98e-03	0.0	47,47,0	2.71e-05	3.17e-03	2.39e-03	47,47,47	0.0	0	1.00	0.07	0.93
1939	0.0	6.83e-03	0.0	0,47,0	1.14e-05	3.15e-05	2.11e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-03	0.0	0,47,0	1.14e-05	1.62e-04	4.42e-04	47,47,47	0.0	0	0.0	0.0	0.0
1940	0.0	6.83e-03	0.0	0,47,0	1.14e-05	3.15e-05	2.11e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.26e-03	0.0	0,47,0	1.14e-05	1.62e-04	4.42e-04	47,47,47	0.0	0	0.0	0.0	0.0
1941	0.0	4.15e-03	0.0	0,47,0	4.98e-06	1.35e-05	1.28e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.49e-03	0.0	0,47,0	4.97e-06	4.29e-05	4.42e-04	47,47,47	0.0	0	0.0	0.0	0.0
1942	0.0	3.37e-03	0.0	0,47,0	3.01e-06	1.97e-05	1.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,47,0	3.00e-06	2.17e-05	5.27e-04	47,47,47	0.0	0	0.0	0.0	0.0
1943	1.85e-04	3.63e-03	0.0	47,47,0	3.50e-06	2.18e-04	1.22e-03	47,47,47	0.0	0	0.99	0.09	0.91
	0.0	2.30e-03	0.0	0,47,0	3.46e-06	1.97e-04	7.07e-04	47,47,47	0.0	0	0.0	0.0	0.0
1944	1.85e-04	4.79e-03	0.0	47,47,0	7.63e-06	4.91e-04	1.98e-03	47,47,47	0.0	0	0.99	0.09	0.91
	0.0	3.39e-03	0.0	0,47,0	7.57e-06	6.66e-04	1.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
1945	2.38e-03	8.00e-03	0.0	47,47,0	1.22e-05	3.41e-03	5.31e-03	47,47,47	0.0	0	0.98	0.05	0.95
	0.0	3.39e-03	0.0	0,47,0	1.16e-05	2.41e-03	3.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
1946	0.01	0.02	0.0	47,47,0	3.16e-05	0.02	0.02	47,47,47	0.0	0	0.98	0.05	0.95
	0.0	3.34e-03	0.0	0,47,0	2.71e-05	3.68e-03	4.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
1947	0.01	0.02	0.0	47,47,0	3.16e-05	0.02	0.02	47,47,47	0.0	0	0.98	0.05	0.95
	0.0	1.98e-03	0.0	0,47,0	2.71e-05	3.68e-03	4.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
2714	0.0	2.47e-03	0.0	0,47,0	1.14e-05	3.15e-05	7.90e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.08e-04	0.0	0,47,0	1.14e-05	8.52e-05	2.29e-04	47,47,47	0.0	0	0.0	0.0	0.0
2715	0.0	2.47e-03	0.0	0,47,0	1.14e-05	3.15e-05	7.90e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.11e-04	0.0	0,47,0	1.14e-05	8.52e-05	2.29e-04	47,47,47	0.0	0	0.0	0.0	0.0
2716	0.0	1.46e-03	0.0	0,47,0	4.98e-06	1.35e-05	4.62e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.16e-04	0.0	0,47,0	4.97e-06	3.18e-05	2.50e-04	47,47,47	0.0	0	0.0	0.0	0.0
2717	0.0	1.21e-03	0.0	0,47,0	3.01e-06	1.97e-05	3.92e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.31e-03	0.0	0,47,0	3.00e-06	1.94e-05	3.72e-04	47,47,47	0.0	0	0.0	0.0	0.0
2718	1.85e-04	1.76e-03	0.0	47,47,0	3.50e-06	2.18e-04	6.42e-04	47,47,47	0.0	0	0.99	0.09	0.91
	0.0	1.84e-03	0.0	0,47,0	3.46e-06	1.97e-04	7.07e-04	47,47,47	0.0	0	0.0	0.0	0.0
2719	1.85e-04	3.43e-03	0.0	47,47,0	3.66e-06	3.30e-04	1.40e-03	47,47,47	0.0	0	0.99	0.09	0.91
	0.0	3.39e-03	0.0	0,47,0	3.64e-06	6.66e-04	1.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
2720	2.38e-03	8.00e-03	0.0	47,47,0	1.22e-05	3.41e-03	5.31e-03	47,47,47	0.0	0	0.98	0.05	0.95
	0.0	3.39e-03	0.0	0,47,0	1.16e-05	2.41e-03	3.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
2721	0.01	0.02	0.0	47,47,0	1.22e-05	0.02	0.02	47,47,47	0.0	0	0.98	0.05	0.95
	0.0	3.34e-03	0.0	0,47,0	1.16e-05	3.68e-03	4.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
2722	0.01	0.02	0.0	47,47,0	9.00e-06	0.02	0.02	47,47,47	0.0	0	0.98	0.05	0.95
	0.0	1.69e-03	0.0	0,47,0	1.53e-06	3.68e-03	4.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	0.02	0.0		3.16e-05	0.02	0.02		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
114	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2210	0.0	1.63e-03	0.0	0,47,0	1.31e-05	5.88e-05	9.37e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.04e-04	0.0	0,47,0	1.31e-05	6.79e-06	1.48e-04	47,47,47			0.0	0.0	0.0
2211	1.24e-03	1.63e-03	0.0	47,47,0	1.31e-05	1.48e-03	9.37e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	5.04e-04	0.0	0,47,0	1.31e-05	6.79e-06	1.48e-04	47,47,47			0.0	0.0	0.0
2212	3.62e-03	0.0	0.0	47,0,0	6.13e-06	4.29e-03	2.02e-05	47,47,47	0.0	0	0.39	0.12	0.88
	4.34e-05	2.38e-05	0.0	47,47,0	6.11e-06	5.28e-05	1.17e-05	47,47,47			1.00	0.07	0.93
2213	4.54e-03	0.0	0.0	47,0,0	1.78e-06	5.37e-03	1.28e-05	47,47,47	0.0	0	0.39	0.12	0.88
	4.83e-05	0.0	0.0	47,0,0	1.76e-06	5.74e-05	2.37e-06	47,47,47			1.00	0.07	0.93
2214	4.54e-03	0.0	0.0	47,0,0	1.03e-06	5.37e-03	1.75e-05	47,47,47	0.0	0	0.39	0.12	0.88
	4.83e-05	0.0	0.0	47,0,0	1.02e-06	5.74e-05	6.57e-06	47,47,47			1.00	0.07	0.93
2215	4.02e-03	0.0	0.0	47,0,0	4.84e-06	4.78e-03	4.49e-05	47,47,47	0.0	0	0.39	0.12	0.88
	3.79e-05	4.61e-05	0.0	47,47,0	4.76e-06	4.99e-05	3.65e-05	47,47,47			1.00	0.07	0.93
2216	2.02e-03	5.90e-04	0.0	47,47,0	1.02e-05	2.42e-03	4.29e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	8.85e-04	0.0	0,47,0	1.00e-05	1.86e-04	4.21e-04	47,47,47			0.0	0.0	0.0
2217	0.0	5.09e-03	0.0	0,47,0	1.87e-05	1.31e-04	2.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.85e-04	0.0	0,47,0	1.83e-05	2.45e-04	4.21e-04	47,47,47			0.0	0.0	0.0
2218	0.0	5.09e-03	0.0	0,47,0	1.87e-05	1.02e-04	2.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.44e-04	0.0	0,47,0	1.83e-05	2.45e-04	3.40e-04	47,47,47			0.0	0.0	0.0
2502	0.0	1.63e-03	0.0	0,47,0	1.31e-05	5.88e-05	9.37e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.04e-04	0.0	0,47,0	1.31e-05	6.79e-06	1.48e-04	47,47,47			0.0	0.0	0.0
2503	1.24e-03	1.63e-03	0.0	47,47,0	1.31e-05	1.48e-03	9.37e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	5.04e-04	0.0	0,47,0	1.31e-05	6.79e-06	1.48e-04	47,47,47			0.0	0.0	0.0
2504	3.62e-03	0.0	0.0	47,0,0	6.13e-06	4.29e-03	2.02e-05	47,47,47	0.0	0	0.39	0.12	0.88
	4.34e-05	2.38e-05	0.0	47,47,0	6.11e-06	5.28e-05	1.17e-05	47,47,47			1.00	0.07	0.93
2505	4.54e-03	0.0	0.0	47,0,0	1.78e-06	5.37e-03	1.28e-05	47,47,47	0.0	0	0.39	0.12	0.88
	4.83e-05	0.0	0.0	47,0,0	1.76e-06	5.74e-05	2.37e-06	47,47,47			1.00	0.07	0.93
2506	4.54e-03	0.0	0.0	47,0,0	1.03e-06	5.37e-03	1.75e-05	47,47,47	0.0	0	0.39	0.12	0.88
	4.83e-05	0.0	0.0	47,0,0	1.02e-06	5.74e-05	6.57e-06	47,47,47			1.00	0.07	0.93
2507	4.02e-03	0.0	0.0	47,0,0	4.84e-06	4.78e-03	4.49e-05	47,47,47	0.0	0	0.39	0.12	0.88
	3.79e-05	4.61e-05	0.0	47,47,0	4.76e-06	4.99e-05	3.65e-05	47,47,47			1.00	0.07	0.93
2508	2.02e-03	5.90e-04	0.0	47,47,0	1.02e-05	2.42e-03	4.29e-04	47,47,47	0.0	0	0.39	0.12	0.88
	0.0	8.85e-04	0.0	0,47,0	1.00e-05	1.86e-04	4.21e-04	47,47,47			0.0	0.0	0.0
2509	0.0	5.09e-03	0.0	0,47,0	1.87e-05	1.31e-04	2.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.85e-04	0.0	0,47,0	1.83e-05	2.45e-04	4.21e-04	47,47,47			0.0	0.0	0.0
2510	0.0	5.09e-03	0.0	0,47,0	1.87e-05	1.02e-04	2.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.44e-04	0.0	0,47,0	1.83e-05	2.45e-04	3.40e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	4.54e-03	5.09e-03	0.0		1.87e-05	5.37e-03	2.49e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
115	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
12	0.0	0.01	0.0	0,47,0	1.52e-06	6.80e-05	3.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	0.0	0.0	47,0,0	1.44e-06	1.47e-03	4.08e-06	47,47,47			1.00	0.07	0.93
13	0.0	0.01	0.0	0,47,0	4.04e-06	6.80e-05	5.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	0.0	0.0	47,0,0	3.92e-06	1.47e-03	2.71e-05	47,47,47			1.00	0.07	0.93
14	0.0	0.01	0.0	0,47,0	4.04e-06	2.44e-05	5.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.41e-05	8.13e-04	0.0	47,47,0	3.92e-06	9.79e-05	2.34e-04	47,47,47			1.00	0.07	0.93
15	0.0	2.04e-03	0.0	0,47,0	1.86e-06	5.09e-06	7.11e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.13e-04	0.0	0,47,0	1.86e-06	7.30e-06	2.34e-04	47,47,47			0.0	0.0	0.0
16	0.0	4.32e-03	0.0	0,47,0	0.0	1.20e-05	1.36e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.23e-05	1.70e-04	0.0	47,47,0	0.0	1.18e-04	5.25e-05	47,47,47			1.00	0.07	0.93
17	0.0	6.06e-03	0.0	0,47,0	0.0	4.05e-05	1.92e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.23e-05	0.0	0.0	47,0,0	0.0	1.18e-04	2.22e-05	47,47,47			1.00	0.07	0.93
18	0.0	8.46e-03	0.0	0,47,0	0.0	7.15e-05	2.69e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.61e-05	2.06e-05	0.0	47,47,0	0.0	5.06e-05	5.42e-05	47,47,47			1.00	0.07	0.93
19	0.0	8.46e-03	0.0	0,47,0	0.0	7.15e-05	2.69e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.06e-05	0.0	0,47,0	0.0	5.06e-05	5.42e-05	47,47,47			0.0	0.0	0.0
481	0.0	0.02	0.0	0,47,0	1.52e-06	6.80e-05	5.35e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	9.16e-06	0.0	47,47,0	1.44e-06	1.47e-03	1.86e-05	47,47,47			1.00	0.07	0.93
482	0.0	0.02	0.0	0,47,0	2.43e-05	6.80e-05	5.35e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	3.17e-04	0.0	47,47,0	2.42e-05	1.47e-03	9.00e-05	47,47,47			1.00	0.07	0.93
483	0.0	0.01	0.0	0,47,0	2.43e-05	2.44e-05	5.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.41e-05	8.13e-04	0.0	47,47,0	2.42e-05	9.79e-05	2.34e-04	47,47,47			1.00	0.07	0.93
484	0.0	2.04e-03	0.0	0,47,0	1.86e-06	5.09e-06	7.11e-04	47,47,47	0.0	0	0.0	0.0	0.0

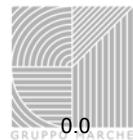
Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
116	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7 cm	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
317	0.0	0.03	0.0	0,47,0	1.83e-06	3.30e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.99e-05	1.08e-05	0.0	47,47,0	1.68e-06	2.94e-05	4.78e-06	47,47,47			1.00	0.08	0.92
325	0.0	0.03	0.0	0,47,0	1.90e-06	1.46e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.99e-05	2.97e-05	0.0	47,47,0	1.78e-06	2.94e-05	2.36e-05	47,47,47			1.00	0.08	0.92
333	0.0	0.03	0.0	0,47,0	2.15e-06	3.03e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.75e-05	0.0	0,47,0	2.05e-06	3.08e-05	4.36e-05	47,47,47			0.0	0.0	0.0
341	0.0	0.04	0.0	0,47,0	3.70e-06	3.03e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.40e-04	0.0	0,47,0	3.49e-06	8.65e-05	1.13e-04	47,47,47			0.0	0.0	0.0
349	0.0	0.04	0.0	0,47,0	3.70e-06	3.02e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.00e-04	0.0	0,47,0	3.49e-06	2.26e-04	4.43e-04	47,47,47			0.0	0.0	0.0
364	0.0	0.01	0.0	0,47,0	1.55e-06	1.84e-05	4.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.00e-04	0.0	0,47,0	1.49e-06	2.26e-04	4.43e-04	47,47,47			0.0	0.0	0.0
452	0.0	0.03	0.0	0,47,0	1.83e-06	5.10e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.19e-04	2.00e-05	0.0	47,47,0	1.68e-06	1.65e-04	8.17e-06	47,47,47			1.00	0.08	0.92
454	0.0	0.03	0.0	0,47,0	1.90e-06	1.46e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.19e-04	6.93e-05	0.0	47,47,0	1.78e-06	1.65e-04	2.36e-05	47,47,47			1.00	0.08	0.92
456	0.0	0.03	0.0	0,47,0	2.15e-06	3.03e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.98e-05	6.93e-05	0.0	47,47,0	2.05e-06	1.38e-04	6.41e-05	47,47,47			1.00	0.08	0.92
458	0.0	0.04	0.0	0,47,0	5.10e-06	3.03e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.38e-04	1.40e-04	0.0	47,47,0	4.98e-06	2.05e-04	1.13e-04	47,47,47			1.00	0.08	0.92
460	0.0	0.04	0.0	0,47,0	5.10e-06	4.85e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.38e-04	8.00e-04	0.0	47,47,0	4.98e-06	2.26e-04	4.43e-04	47,47,47			1.00	0.08	0.92
464	0.0	0.02	0.0	0,47,0	1.55e-06	4.85e-05	7.14e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.00e-04	0.0	0,47,0	1.49e-06	2.26e-04	4.43e-04	47,47,47			0.0	0.0	0.0
1136	0.0	0.03	0.0	0,47,0	1.59e-06	5.10e-06	9.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.34e-04	4.20e-05	0.0	47,47,0	1.45e-06	1.91e-04	1.60e-05	47,47,47			1.00	0.08	0.92
1144	0.0	0.03	0.0	0,47,0	1.66e-06	1.56e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.43e-04	1.32e-04	0.0	47,47,0	1.54e-06	2.25e-04	4.30e-05	47,47,47			1.00	0.08	0.92
1152	0.0	0.03	0.0	0,47,0	1.96e-06	2.32e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.76e-04	2.06e-04	0.0	47,47,0	1.86e-06	2.88e-04	6.64e-05	47,47,47			1.00	0.08	0.92
1160	0.0	0.03	0.0	0,47,0	5.10e-06	6.25e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.76e-04	2.06e-04	0.0	47,47,0	4.98e-06	2.88e-04	1.64e-04	47,47,47			1.00	0.08	0.92
1168	0.0	0.03	0.0	0,47,0	5.10e-06	7.90e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.38e-04	4.80e-04	0.0	47,47,0	4.98e-06	2.05e-04	2.25e-04	47,47,47			1.00	0.08	0.92
1183	0.0	0.03	0.0	0,47,0	1.67e-06	7.90e-05	8.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.80e-04	0.0	0,47,0	1.57e-06	1.10e-04	2.25e-04	47,47,47			0.0	0.0	0.0
1572	0.0	0.03	0.0	0,47,0	1.21e-06	4.52e-06	9.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.34e-04	8.05e-05	0.0	47,47,0	1.07e-06	1.91e-04	2.50e-05	47,47,47			1.00	0.08	0.92
1579	0.0	0.03	0.0	0,47,0	1.38e-06	1.56e-05	9.37e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.43e-04	1.85e-04	0.0	47,47,0	1.24e-06	2.25e-04	6.75e-05	47,47,47			1.00	0.08	0.92
1584	0.0	0.03	0.0	0,47,0	1.86e-06	3.29e-05	9.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.76e-04	3.88e-04	0.0	47,47,0	1.73e-06	2.88e-04	1.67e-04	47,47,47			1.00	0.08	0.92
1587	0.0	0.03	0.0	0,47,0	4.35e-06	6.65e-05	9.81e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-04	7.64e-04	0.0	47,47,0	4.21e-06	5.44e-04	2.61e-04	47,47,47			1.00	0.08	0.92
1591	0.0	0.03	0.0	0,47,0	4.35e-06	2.72e-04	9.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-04	9.57e-04	0.0	47,47,0	4.21e-06	5.77e-04	7.50e-04	47,47,47			1.00	0.08	0.92
1639	0.0	0.03	0.0	0,47,0	2.81e-06	2.72e-04	9.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.57e-04	0.0	0,47,0	2.62e-06	5.77e-04	7.50e-04	47,47,47			0.0	0.0	0.0
2170	0.0	0.03	0.0	0,47,0	0.0	7.08e-06	8.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.05e-05	0.0	0,47,0	0.0	3.66e-05	2.50e-05	47,47,47			0.0	0.0	0.0
2178	0.0	0.03	0.0	0,47,0	1.08e-06	1.06e-05	8.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.85e-04	0.0	0,47,0	0.0	3.66e-05	6.75e-05	47,47,47			0.0	0.0	0.0
2186	0.0	0.03	0.0	0,47,0	1.64e-06	3.29e-05	8.84e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.88e-04	0.0	0,47,0	1.57e-06	1.44e-04	1.67e-04	47,47,47			0.0	0.0	0.0
2194	0.0	0.03	0.0	0,47,0	3.01e-06	6.65e-05	9.16e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-04	7.64e-04	0.0	47,47,0	2.92e-06	5.44e-04	2.72e-04	47,47,47			1.00	0.08	0.92
2202	0.0	0.03	0.0	0,47,0	3.01e-06	3.25e-04	9.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.63e-04	9.57e-04	0.0	47,47,0	2.92e-06	1.15e-03	1.37e-03	47,47,47			1.00	0.08	0.92
2229	0.0	0.03	0.0	0,47,0	2.81e-06	3.25e-04	9.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.57e-04	0.0	0,47,0	2.62e-06	1.15e-03	1.37e-03	47,47,47			0.0	0.0	0.0
2521	0.0	0.02	0.0	0,47,0	1.41e-06	3.25e-04	7.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.15e-04	0.0	0,47,0	1.11e-06	1.15e-03	1.37e-03	47,47,47			0.0	0.0	0.0
2566	0.0	0.03	0.0	0,47,0	2.07e-06	3.25e-04	8.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.15e-04	0.0	0,47,0	1.93e-06	1.15e-03	1.37e-03	47,47,47			0.0	0.0	0.0
2584	0.0	0.03	0.0	0,47,0	2.07e-06	5.60e-05	8.29e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO

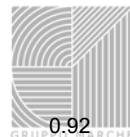


2607	0.0	7.45e-04	0.0	0,47,0	1.93e-06	1.24e-04	2.72e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.03	0.0	0,47,0	1.10e-06	3.28e-05	8.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.55e-04	0.0	0,47,0	1.03e-06	2.44e-05	6.49e-05	47,47,47			0.0	0.0	0.0
2626	0.0	0.03	0.0	0,47,0	0.0	1.06e-05	8.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.68e-05	0.0	0,47,0	0.0	1.41e-05	2.72e-05	47,47,47			0.0	0.0	0.0
2642	0.0	0.03	0.0	0,47,0	0.0	7.08e-06	8.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.84e-05	0.0	0,47,0	0.0	1.11e-05	2.05e-05	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	2.63e-04	0.04	0.0		5.10e-06	1.15e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
117	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
322	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.27e-04	0.0	0,47,0	0.0	0.0	3.66e-05	47,47,47			0.0	0.0	0.0
331	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.27e-04	0.0	0,47,0	0.0	0.0	3.66e-05	47,47,47			0.0	0.0	0.0
337	0.0	0.05	0.0	0,47,0	0.0	5.03e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.78e-05	0.0	0,47,0	0.0	1.17e-05	3.79e-05	47,47,47			0.0	0.0	0.0
346	0.0	0.05	0.0	0,47,0	0.0	4.04e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.52e-04	0.0	0,47,0	0.0	3.52e-05	7.68e-05	47,47,47			0.0	0.0	0.0
354	0.0	0.04	0.0	0,47,0	1.71e-06	4.04e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.52e-04	0.0	0,47,0	1.43e-06	3.52e-05	7.68e-05	47,47,47			0.0	0.0	0.0
371	0.0	0.05	0.0	0,47,0	1.71e-06	3.41e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.71e-05	8.00e-05	0.0	47,47,0	1.43e-06	8.55e-05	4.42e-05	47,47,47			1.00	0.08	0.92
377	0.0	0.05	0.0	0,47,0	0.0	3.06e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.71e-05	0.0	0.0	47,0,0	0.0	8.55e-05	4.42e-05	47,47,47			1.00	0.08	0.92
390	0.0	0.02	0.0	0,47,0	1.52e-05	7.22e-05	6.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.79e-04	0.0	0,47,0	1.51e-05	5.30e-06	1.12e-04	47,47,47			0.0	0.0	0.0
411	0.0	0.02	0.0	0,47,0	1.52e-05	7.22e-05	6.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.79e-04	0.0	0,47,0	1.51e-05	5.30e-06	1.12e-04	47,47,47			0.0	0.0	0.0
757	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.59e-04	0.0	0,47,0	0.0	0.0	7.35e-05	47,47,47			0.0	0.0	0.0
764	0.0	0.05	0.0	0,47,0	0.0	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.59e-04	0.0	0,47,0	0.0	0.0	7.35e-05	47,47,47			0.0	0.0	0.0
768	0.0	0.05	0.0	0,47,0	0.0	5.03e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.66e-04	0.0	0,47,0	0.0	1.55e-05	5.77e-05	47,47,47			0.0	0.0	0.0
775	0.0	0.05	0.0	0,47,0	0.0	4.04e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.67e-04	0.0	0,47,0	0.0	3.52e-05	1.07e-04	47,47,47			0.0	0.0	0.0
781	0.0	0.04	0.0	0,47,0	3.30e-06	1.11e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.67e-04	0.0	0,47,0	3.04e-06	8.15e-05	1.46e-04	47,47,47			0.0	0.0	0.0
790	0.0	0.05	0.0	0,47,0	3.30e-06	1.93e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.71e-05	2.27e-04	0.0	47,47,0	3.04e-06	8.55e-05	1.46e-04	47,47,47			1.00	0.08	0.92
796	0.0	0.05	0.0	0,47,0	1.25e-06	1.93e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.71e-05	8.24e-05	0.0	47,47,0	0.0	8.55e-05	4.42e-05	47,47,47			1.00	0.08	0.92
809	0.0	0.03	0.0	0,47,0	1.52e-05	7.22e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.54e-05	3.79e-04	0.0	47,47,0	1.51e-05	6.87e-05	1.12e-04	47,47,47			1.00	0.08	0.92
830	0.0	0.03	0.0	0,47,0	1.52e-05	7.22e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.54e-05	3.79e-04	0.0	47,47,0	1.51e-05	6.87e-05	1.12e-04	47,47,47			1.00	0.08	0.92
1141	0.0	0.05	0.0	0,47,0	1.18e-05	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.00e-03	0.0	0,47,0	1.14e-05	2.22e-06	2.85e-04	47,47,47			0.0	0.0	0.0
1150	0.0	0.05	0.0	0,47,0	1.18e-05	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.00e-03	0.0	0,47,0	1.14e-05	2.22e-06	2.85e-04	47,47,47			0.0	0.0	0.0
1156	0.0	0.05	0.0	0,47,0	4.15e-06	4.21e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.14e-04	0.0	0,47,0	3.84e-06	2.08e-05	1.91e-04	47,47,47			0.0	0.0	0.0
1165	0.0	0.05	0.0	0,47,0	4.15e-06	5.21e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.26e-04	0.0	0,47,0	3.84e-06	2.08e-05	2.36e-04	47,47,47			0.0	0.0	0.0
1173	0.0	0.04	0.0	0,47,0	7.94e-06	1.38e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.26e-04	0.0	0,47,0	7.76e-06	8.15e-05	2.58e-04	47,47,47			0.0	0.0	0.0
1190	0.0	0.05	0.0	0,47,0	8.32e-06	2.18e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.82e-04	0.0	0,47,0	7.92e-06	8.15e-05	2.58e-04	47,47,47			0.0	0.0	0.0
1196	0.0	0.05	0.0	0,47,0	8.32e-06	2.18e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.18e-04	0.0	0,47,0	7.92e-06	1.18e-05	9.21e-05	47,47,47			0.0	0.0	0.0
1209	0.0	0.05	0.0	0,47,0	1.20e-05	8.17e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.54e-05	0.0	0.0	47,0,0	1.18e-05	6.87e-05	6.69e-06	47,47,47			1.00	0.08	0.92
1230	0.0	0.05	0.0	0,47,0	1.20e-05	8.17e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



1511	5.54e-05	0.0	0.0	47,0,0	1.18e-05	6.87e-05	6.69e-06	47,47,47	0.0	0	1.00	0.08	0.92
	0.0	0.05	0.0	0,47,0	1.71e-05	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.00e-03	0.0	0,47,0	1.69e-05	2.22e-06	2.85e-04	47,47,47	0.0	0	0.0	0.0	0.0
1516	0.0	0.05	0.0	0,47,0	1.71e-05	4.91e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.00e-03	0.0	0,47,0	1.69e-05	1.44e-05	2.85e-04	47,47,47	0.0	0	0.0	0.0	0.0
1518	0.0	0.05	0.0	0,47,0	1.44e-05	7.59e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.86e-04	0.0	0,47,0	1.42e-05	2.86e-05	2.41e-04	47,47,47	0.0	0	0.0	0.0	0.0
1556	0.0	0.05	0.0	0,47,0	1.44e-05	5.21e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.48e-03	0.0	0,47,0	1.42e-05	2.86e-05	4.23e-04	47,47,47	0.0	0	0.0	0.0	0.0
1577	0.0	0.04	0.0	0,47,0	9.72e-06	2.10e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.22e-03	0.0	0,47,0	9.58e-06	1.97e-04	8.16e-04	47,47,47	0.0	0	0.0	0.0	0.0
1646	0.0	0.07	0.0	0,47,0	1.05e-04	3.69e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.37e-03	0.0	0,47,0	1.04e-04	1.97e-04	8.16e-04	47,47,47	0.0	0	0.0	0.0	0.0
1652	0.0	0.07	0.0	0,47,0	1.05e-04	3.69e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.37e-03	0.0	0,47,0	1.04e-04	5.26e-05	7.00e-04	47,47,47	0.0	0	0.0	0.0	0.0
1663	0.0	0.07	0.0	0,47,0	2.19e-05	4.56e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.31e-05	2.38e-04	0.0	47,47,0	2.11e-05	7.21e-05	1.34e-04	47,47,47	0.0	0	1.00	0.08	0.92
1684	0.0	0.07	0.0	0,47,0	2.19e-05	4.56e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.31e-05	2.38e-04	0.0	47,47,0	2.11e-05	7.21e-05	1.34e-04	47,47,47	0.0	0	1.00	0.08	0.92
2175	0.0	0.04	0.0	0,47,0	1.71e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.88e-04	3.46e-04	0.0	47,47,0	1.69e-05	9.28e-04	9.88e-05	47,47,47	0.0	0	1.00	0.08	0.92
2184	0.0	0.04	0.0	0,47,0	1.71e-05	6.32e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.88e-04	6.91e-04	0.0	47,47,0	1.69e-05	9.28e-04	2.08e-04	47,47,47	0.0	0	1.00	0.08	0.92
2190	0.0	0.04	0.0	0,47,0	2.65e-05	7.99e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.55e-04	7.86e-04	0.0	47,47,0	2.64e-05	5.45e-04	2.41e-04	47,47,47	0.0	0	1.00	0.08	0.92
2199	0.0	0.04	0.0	0,47,0	2.65e-05	7.42e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.45e-04	1.48e-03	0.0	47,47,0	2.64e-05	6.93e-04	4.23e-04	47,47,47	0.0	0	1.00	0.08	0.92
2207	0.0	0.03	0.0	0,47,0	9.72e-06	3.52e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.45e-04	2.22e-03	0.0	47,47,0	9.58e-06	6.93e-04	8.16e-04	47,47,47	0.0	0	1.00	0.08	0.92
2250	0.0	0.07	0.0	0,47,0	1.72e-04	7.19e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.48e-04	2.37e-03	0.0	47,47,0	1.72e-04	4.80e-04	8.16e-04	47,47,47	0.0	0	1.00	0.08	0.92
2262	0.0	0.07	0.0	0,47,0	7.61e-04	7.19e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	5.84e-03	2.37e-03	0.0	47,47,0	7.60e-04	6.93e-03	7.00e-04	47,47,47	0.0	0	1.00	0.08	0.92
2277	0.0	0.02	0.0	0,47,0	7.61e-04	7.55e-05	4.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	47,0,0	7.60e-04	0.02	8.07e-05	47,47,47	0.0	0	1.00	0.08	0.92
2287	0.0	0.07	0.0	0,47,0	4.08e-04	7.71e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	2.38e-04	0.0	47,47,0	4.07e-04	0.02	5.36e-04	47,47,47	0.0	0	1.00	0.08	0.92
2325	0.0	0.07	0.0	0,47,0	4.08e-04	7.71e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.92e-03	2.38e-04	0.0	47,47,0	4.07e-04	6.23e-03	5.36e-04	47,47,47	0.0	0	1.00	0.08	0.92
2434	0.0	0.04	0.0	0,47,0	4.08e-04	7.71e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.92e-03	0.0	0.0	47,0,0	4.07e-04	6.23e-03	5.36e-04	47,47,47	0.0	0	1.00	0.08	0.92
2454	0.0	0.04	0.0	0,47,0	4.08e-04	7.71e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	47,0,0	4.07e-04	0.02	5.36e-04	47,47,47	0.0	0	1.00	0.08	0.92
2473	0.0	0.02	0.0	0,47,0	7.61e-04	7.55e-05	4.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	47,0,0	7.60e-04	0.02	8.07e-05	47,47,47	0.0	0	1.00	0.08	0.92
2496	0.0	0.04	0.0	0,47,0	7.61e-04	7.19e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.84e-03	3.76e-04	0.0	47,47,0	7.60e-04	6.93e-03	5.26e-04	47,47,47	0.0	0	1.00	0.08	0.92
2542	0.0	0.04	0.0	0,47,0	1.72e-04	7.19e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.48e-04	3.76e-04	0.0	47,47,0	1.72e-04	4.80e-04	5.26e-04	47,47,47	0.0	0	1.00	0.08	0.92
2563	0.0	0.03	0.0	0,47,0	6.32e-06	3.52e-04	8.89e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.45e-04	1.56e-04	0.0	47,47,0	6.21e-06	6.93e-04	4.56e-04	47,47,47	0.0	0	1.00	0.08	0.92
2579	0.0	0.03	0.0	0,47,0	2.65e-05	7.42e-05	9.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.45e-04	0.0	0.0	47,0,0	2.64e-05	6.93e-04	3.02e-06	47,47,47	0.0	0	1.00	0.08	0.92
2602	0.0	0.03	0.0	0,47,0	2.65e-05	7.99e-06	9.46e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.55e-04	1.77e-05	0.0	47,47,0	2.64e-05	5.45e-04	6.04e-06	47,47,47	0.0	0	1.00	0.08	0.92
2620	0.0	0.03	0.0	0,47,0	8.69e-06	6.32e-06	9.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.88e-04	1.77e-05	0.0	47,47,0	8.54e-06	9.28e-04	6.04e-06	47,47,47	0.0	0	1.00	0.08	0.92
2639	0.0	0.03	0.0	0,47,0	8.69e-06	0.0	9.49e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.88e-04	0.0	0.0	47,0,0	8.54e-06	9.28e-04	1.13e-06	47,47,47	0.0	0	1.00	0.08	0.92

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.01	0.07	0.0	7.61e-04	0.02	0.02	0.0

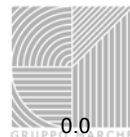
Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
118	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
253	0.0	0.02	0.0	0,47,0	6.21e-06	2.55e-06	6.18e-03	47,47,47	0.0	0	0.0	0.0	0.0

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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



2792	0.0	0.03	0.0	0,47,0	0.0	9.18e-06	8.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.90e-04	0.0	0.0	47,0,0	0.0	2.40e-04	2.65e-05	47,47,47			1.00	0.08	0.92
2800	0.0	0.03	0.0	0,47,0	0.0	1.67e-05	8.82e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.90e-04	0.0	0.0	47,0,0	0.0	2.40e-04	5.67e-05	47,47,47			1.00	0.08	0.92
2806	0.0	0.03	0.0	0,47,0	0.0	1.97e-05	8.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.71e-04	3.48e-04	0.0	47,47,0	0.0	2.29e-04	1.42e-04	47,47,47			1.00	0.08	0.92
2847	0.0	0.02	0.0	0,47,0	0.0	1.97e-05	6.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.48e-04	0.0	0,47,0	0.0	5.67e-05	1.42e-04	47,47,47			0.0	0.0	0.0

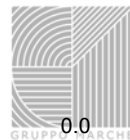
Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	9.94e-04	0.05	0.0	6.21e-06	1.18e-03	0.02	0.0

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
119	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
128	0.0	9.72e-03	0.0	0,47,0	0.0	5.90e-05	3.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.96e-04	0.0	0,47,0	0.0	8.01e-05	2.30e-04	47,47,47			0.0	0.0	0.0
129	0.0	0.02	0.0	0,47,0	0.0	7.10e-05	7.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.96e-04	0.0	0,47,0	0.0	1.73e-04	2.30e-04	47,47,47			0.0	0.0	0.0
130	0.0	0.03	0.0	0,47,0	3.08e-06	2.09e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	5.38e-04	6.19e-04	0.0	47,47,0	2.79e-06	8.77e-04	2.49e-04	47,47,47			1.00	0.08	0.92
131	0.0	0.04	0.0	0,47,0	3.08e-06	2.61e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.26e-04	6.90e-04	0.0	47,47,0	2.79e-06	1.29e-03	6.25e-04	47,47,47			1.00	0.08	0.92
132	0.0	0.04	0.0	0,47,0	4.51e-06	5.89e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	8.26e-04	6.90e-04	0.0	47,47,0	3.78e-06	1.29e-03	7.20e-04	47,47,47			1.00	0.08	0.92
133	0.0	0.06	0.0	0,47,0	1.06e-05	2.83e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	3.26e-04	4.91e-04	0.0	47,47,0	8.38e-06	1.99e-03	1.87e-03	47,47,47			1.00	0.08	0.92
134	0.0	0.07	0.0	0,47,0	1.06e-05	2.90e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.27e-03	7.66e-04	0.0	47,47,0	8.38e-06	3.54e-03	2.93e-03	47,47,47			1.00	0.08	0.92
135	0.0	0.07	0.0	0,47,0	4.31e-06	2.90e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.27e-03	7.66e-04	0.0	47,47,0	0.0	3.54e-03	2.93e-03	47,47,47			1.00	0.08	0.92
136	0.0	0.02	0.0	0,47,0	0.0	7.10e-04	8.36e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.60e-05	0.0	0,47,0	0.0	2.97e-05	4.30e-05	47,47,47			0.0	0.0	0.0
137	0.0	0.02	0.0	0,47,0	0.0	7.10e-04	8.36e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.60e-05	0.0	0,47,0	0.0	2.97e-05	4.30e-05	47,47,47			0.0	0.0	0.0
597	0.0	0.01	0.0	0,47,0	0.0	6.47e-05	4.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.96e-04	0.0	0,47,0	0.0	3.27e-04	4.24e-04	47,47,47			0.0	0.0	0.0
598	0.0	0.02	0.0	0,47,0	0.0	7.10e-05	7.55e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.83e-04	1.14e-03	0.0	47,47,0	0.0	1.47e-03	4.63e-04	47,47,47			1.00	0.08	0.92
599	0.0	0.03	0.0	0,47,0	4.74e-06	2.22e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.62e-03	1.67e-03	0.0	47,47,0	4.46e-06	2.59e-03	5.41e-04	47,47,47			1.00	0.08	0.92
600	0.0	0.04	0.0	0,47,0	4.74e-06	3.15e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.71e-03	1.68e-03	0.0	47,47,0	4.46e-06	2.72e-03	6.25e-04	47,47,47			1.00	0.08	0.92
601	0.0	0.04	0.0	0,47,0	4.51e-06	5.89e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.71e-03	1.68e-03	0.0	47,47,0	3.78e-06	2.72e-03	1.24e-03	47,47,47			1.00	0.08	0.92
602	0.0	0.06	0.0	0,47,0	1.15e-05	2.83e-03	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.16e-03	8.55e-04	0.0	47,47,0	1.05e-05	2.13e-03	1.87e-03	47,47,47			1.00	0.08	0.92
603	0.0	0.07	0.0	0,47,0	1.15e-05	2.90e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.27e-03	8.55e-04	0.0	47,47,0	1.05e-05	3.54e-03	2.93e-03	47,47,47			1.00	0.08	0.92
604	0.0	0.07	0.0	0,47,0	4.31e-06	2.90e-03	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	1.27e-03	7.66e-04	0.0	47,47,0	0.0	3.54e-03	2.93e-03	47,47,47			1.00	0.08	0.92
605	0.0	0.02	0.0	0,47,0	1.31e-06	7.10e-04	8.36e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.15e-04	0.0	0,47,0	1.13e-06	4.03e-05	8.11e-05	47,47,47			0.0	0.0	0.0
606	0.0	0.02	0.0	0,47,0	1.31e-06	7.10e-04	8.36e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.15e-04	0.0	0,47,0	1.13e-06	4.03e-05	8.11e-05	47,47,47			0.0	0.0	0.0
955	0.0	0.01	0.0	0,47,0	1.67e-06	6.47e-05	4.05e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.47e-04	5.32e-04	0.0	47,47,0	1.65e-06	7.34e-04	5.72e-04	47,47,47			1.00	0.08	0.92
956	0.0	0.02	0.0	0,47,0	1.67e-06	7.82e-05	6.07e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.66e-03	1.52e-03	0.0	47,47,0	1.65e-06	2.61e-03	6.63e-04	47,47,47			1.00	0.08	0.92
957	0.0	0.03	0.0	0,47,0	4.74e-06	3.94e-04	8.41e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.84e-03	2.25e-03	0.0	47,47,0	4.46e-06	4.37e-03	7.37e-04	47,47,47			1.00	0.08	0.92
958	0.0	0.03	0.0	0,47,0	4.74e-06	5.45e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.84e-03	2.25e-03	0.0	47,47,0	4.46e-06	4.37e-03	9.59e-04	47,47,47			1.00	0.08	0.92
959	0.0	0.04	0.0	0,47,0	3.26e-06	5.45e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.76e-03	2.07e-03	0.0	47,47,0	3.21e-06	4.22e-03	1.61e-03	47,47,47			1.00	0.08	0.92
960	0.0	0.05	0.0	0,47,0	1.15e-05	8.21e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.50e-03	1.35e-03	0.0	47,47,0	1.08e-05	3.70e-03	1.80e-03	47,47,47			1.00	0.08	0.92

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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



961	0.0	0.06	0.0	0,47,0	1.15e-05	9.03e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.50e-03	1.35e-03	0.0	47,47,0	1.08e-05	3.70e-03	1.80e-03	47,47,47			1.00	0.08	0.92
962	0.0	0.06	0.0	0,47,0	1.58e-06	9.03e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.03e-03	3.59e-04	0.0	47,47,0	0.0	1.48e-03	4.61e-04	47,47,47			1.00	0.08	0.92
963	0.0	0.02	0.0	0,47,0	4.48e-06	3.98e-04	8.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.88e-04	0.0	0,47,0	4.28e-06	3.71e-04	5.82e-04	47,47,47			0.0	0.0	0.0
964	0.0	0.02	0.0	0,47,0	4.48e-06	3.98e-04	8.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.88e-04	0.0	0,47,0	4.28e-06	3.71e-04	5.82e-04	47,47,47			0.0	0.0	0.0
1369	0.0	0.01	0.0	0,47,0	3.56e-06	6.52e-05	4.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.47e-04	5.23e-04	0.0	47,47,0	3.53e-06	7.34e-04	5.72e-04	47,47,47			1.00	0.08	0.92
1370	0.0	0.01	0.0	0,47,0	3.56e-06	7.82e-05	4.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.66e-03	1.52e-03	0.0	47,47,0	3.53e-06	2.61e-03	7.86e-04	47,47,47			1.00	0.08	0.92
1371	0.0	0.02	0.0	0,47,0	1.24e-05	3.94e-04	6.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.27e-03	2.25e-03	0.0	47,47,0	1.22e-05	4.95e-03	7.86e-04	47,47,47			1.00	0.08	0.92
1372	0.0	0.03	0.0	0,47,0	1.24e-05	5.45e-04	8.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.45e-03	2.25e-03	0.0	47,47,0	1.22e-05	5.12e-03	9.75e-04	47,47,47			1.00	0.08	0.92
1373	0.0	0.03	0.0	0,47,0	1.75e-05	5.45e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.45e-03	2.07e-03	0.0	47,47,0	1.73e-05	5.12e-03	2.18e-03	47,47,47			1.00	0.08	0.92
1374	0.0	0.05	0.0	0,47,0	3.22e-05	7.85e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.78e-03	1.62e-03	0.0	47,47,0	3.18e-05	6.84e-03	2.18e-03	47,47,47			1.00	0.08	0.92
1375	0.0	0.06	0.0	0,47,0	3.22e-05	9.03e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.67e-03	2.54e-03	0.0	47,47,0	3.18e-05	9.60e-03	1.99e-03	47,47,47			1.00	0.08	0.92
1376	0.0	0.06	0.0	0,47,0	2.94e-05	9.03e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	6.67e-03	2.54e-03	0.0	47,47,0	2.92e-05	9.60e-03	1.24e-03	47,47,47			1.00	0.08	0.92
1377	0.0	0.02	0.0	0,47,0	2.94e-05	4.20e-04	8.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.88e-03	1.37e-03	0.0	47,47,0	2.92e-05	4.21e-03	9.75e-04	47,47,47			1.00	0.08	0.92
1378	0.0	0.02	0.0	0,47,0	4.61e-06	2.01e-04	8.09e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.88e-04	0.0	0,47,0	4.39e-06	4.40e-04	5.86e-04	47,47,47			0.0	0.0	0.0
1892	0.0	0.01	0.0	0,47,0	1.02e-05	6.52e-05	3.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.46e-04	6.31e-04	0.0	47,47,0	1.01e-05	5.97e-04	5.52e-04	47,47,47			1.00	0.08	0.92
1893	0.0	0.01	0.0	0,47,0	1.02e-05	1.29e-04	3.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.52e-03	1.42e-03	0.0	47,47,0	1.01e-05	2.40e-03	7.86e-04	47,47,47			1.00	0.08	0.92
1894	0.0	0.02	0.0	0,47,0	3.24e-05	3.01e-04	4.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.27e-03	2.21e-03	0.0	47,47,0	3.19e-05	4.95e-03	7.86e-04	47,47,47			1.00	0.08	0.92
1895	0.0	0.02	0.0	0,47,0	3.24e-05	3.32e-04	6.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.45e-03	2.21e-03	0.0	47,47,0	3.19e-05	5.12e-03	1.11e-03	47,47,47			1.00	0.08	0.92
1896	0.0	0.03	0.0	0,47,0	6.00e-05	3.32e-04	8.57e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.45e-03	1.97e-03	0.0	47,47,0	5.84e-05	5.12e-03	2.18e-03	47,47,47			1.00	0.08	0.92
1897	0.0	0.04	0.0	0,47,0	6.65e-05	7.85e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	4.78e-03	1.97e-03	0.0	47,47,0	6.58e-05	6.84e-03	3.58e-03	47,47,47			1.00	0.08	0.92
1898	0.0	0.04	0.0	0,47,0	6.65e-05	7.85e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.67e-03	2.54e-03	0.0	47,47,0	6.58e-05	9.60e-03	3.58e-03	47,47,47			1.00	0.08	0.92
1899	0.0	0.04	0.0	0,47,0	5.19e-05	4.72e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.67e-03	2.54e-03	0.0	47,47,0	5.13e-05	9.60e-03	3.09e-03	47,47,47			1.00	0.08	0.92
1900	0.0	0.02	0.0	0,47,0	5.19e-05	5.03e-04	5.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.88e-03	1.37e-03	0.0	47,47,0	5.13e-05	4.21e-03	9.75e-04	47,47,47			1.00	0.08	0.92
1901	0.0	0.02	0.0	0,47,0	4.61e-06	5.03e-04	5.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.47e-04	7.23e-04	0.0	47,47,0	4.39e-06	9.14e-04	5.86e-04	47,47,47			1.00	0.08	0.92
2667	0.0	9.09e-03	0.0	0,47,0	1.02e-05	4.98e-05	2.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.31e-04	0.0	0,47,0	1.01e-05	3.33e-04	4.67e-04	47,47,47			0.0	0.0	0.0
2668	0.0	9.09e-03	0.0	0,47,0	1.02e-05	1.29e-04	2.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.68e-04	8.88e-04	0.0	47,47,0	1.01e-05	1.12e-03	4.67e-04	47,47,47			1.00	0.08	0.92
2669	0.0	8.23e-03	0.0	0,47,0	3.24e-05	3.01e-04	2.89e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	1.10e-03	0.0	47,47,0	3.19e-05	1.94e-03	3.61e-04	47,47,47			1.00	0.08	0.92
2670	0.0	0.01	0.0	0,47,0	3.24e-05	3.32e-04	4.15e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.57e-03	1.16e-03	0.0	47,47,0	3.19e-05	2.41e-03	1.11e-03	47,47,47			1.00	0.08	0.92
2671	0.0	0.02	0.0	0,47,0	6.00e-05	3.32e-04	5.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.57e-03	1.16e-03	0.0	47,47,0	5.84e-05	2.41e-03	1.51e-03	47,47,47			1.00	0.08	0.92
2672	0.0	0.04	0.0	0,47,0	6.65e-05	2.95e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.04e-03	1.97e-03	0.0	47,47,0	6.58e-05	4.04e-03	3.58e-03	47,47,47			1.00	0.08	0.92
2673	0.0	0.04	0.0	0,47,0	6.65e-05	2.22e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.39e-03	2.32e-03	0.0	47,47,0	6.58e-05	4.04e-03	3.58e-03	47,47,47			1.00	0.08	0.92
2674	0.0	0.04	0.0	0,47,0	5.19e-05	4.16e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.39e-03	2.32e-03	0.0	47,47,0	5.13e-05	3.81e-03	3.09e-03	47,47,47			1.00	0.08	0.92
2675	0.0	8.86e-03	0.0	0,47,0	5.19e-05	5.03e-04	3.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.47e-04	6.62e-04	0.0	47,47,0	5.13e-05	9.14e-04	7.60e-04	47,47,47			1.00	0.08	0.92
2676	0.0	7.68e-03	0.0	0,47,0	4.26e-06	5.03e-04	2.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.47e-04	1.77e-04	0.0	47,47,0	4.00e-06	9.14e-04	2.04e-04	47,47,47			1.00	0.08	0.92
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	6.67e-03	0.07	0.0		6.65e-05	9.60e-03	0.03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		

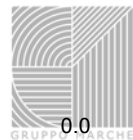
Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
120	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
230	0.0	0.01	0.0	0,47,0	0.0	2.31e-05	4.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.19e-04	0.0	0,47,0	0.0	8.41e-06	4.16e-05	47,47,47			0.0	0.0	0.0
231	0.0	0.02	0.0	0,47,0	0.0	2.31e-05	5.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.19e-04	0.0	0,47,0	0.0	8.41e-06	4.16e-05	47,47,47			0.0	0.0	0.0
232	0.0	0.02	0.0	0,47,0	0.0	1.84e-05	6.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.64e-05	0.0	0,47,0	0.0	4.14e-06	2.51e-05	47,47,47			0.0	0.0	0.0
233	0.0	0.02	0.0	0,47,0	0.0	1.34e-05	6.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.50e-05	0.0	0,47,0	0.0	1.89e-06	5.88e-06	47,47,47			0.0	0.0	0.0
234	0.0	0.08	0.0	0,47,0	2.59e-06	3.65e-04	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	2.05e-04	0.0	0.0	47,0,0	1.26e-06	2.50e-04	4.19e-06	47,47,47			1.00	0.08	0.92
235	0.0	0.08	0.0	0,47,0	2.59e-06	3.65e-04	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	2.05e-04	0.0	0.0	47,0,0	1.26e-06	2.50e-04	4.19e-06	47,47,47			1.00	0.08	0.92
698	0.0	0.01	0.0	0,47,0	0.0	2.31e-05	4.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.65e-04	0.0	0,47,0	0.0	1.42e-05	1.16e-04	47,47,47			0.0	0.0	0.0
699	0.0	0.02	0.0	0,47,0	1.43e-06	2.31e-05	5.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.65e-04	0.0	0,47,0	1.40e-06	1.42e-05	1.16e-04	47,47,47			0.0	0.0	0.0
700	0.0	0.02	0.0	0,47,0	1.43e-06	1.84e-05	6.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.80e-04	0.0	0,47,0	1.40e-06	6.28e-06	8.01e-05	47,47,47			0.0	0.0	0.0
701	0.0	0.02	0.0	0,47,0	1.24e-06	1.34e-05	6.61e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.12e-04	0.0	0,47,0	1.17e-06	6.28e-06	3.67e-05	47,47,47			0.0	0.0	0.0
702	0.0	0.08	0.0	0,47,0	4.02e-06	3.74e-04	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	2.10e-04	7.03e-05	0.0	47,47,0	2.98e-06	2.99e-04	5.31e-05	47,47,47			1.00	0.08	0.92
703	0.0	0.08	0.0	0,47,0	4.02e-06	3.74e-04	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	2.10e-04	7.03e-05	0.0	47,47,0	2.98e-06	2.99e-04	5.31e-05	47,47,47			1.00	0.08	0.92
1054	0.0	0.01	0.0	0,47,0	0.0	1.63e-05	3.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.69e-04	0.0	0,47,0	0.0	2.17e-05	2.35e-04	47,47,47			0.0	0.0	0.0
1055	0.0	0.02	0.0	0,47,0	2.88e-06	1.63e-05	4.90e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.26e-04	0.0	0,47,0	2.86e-06	2.17e-05	2.36e-04	47,47,47			0.0	0.0	0.0
1056	0.0	0.02	0.0	0,47,0	7.53e-06	1.44e-05	6.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.26e-04	0.0	0,47,0	7.49e-06	4.42e-05	2.36e-04	47,47,47			0.0	0.0	0.0
1057	0.0	0.02	0.0	0,47,0	7.53e-06	1.02e-05	6.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.02e-04	0.0	0,47,0	7.49e-06	4.42e-05	2.35e-04	47,47,47			0.0	0.0	0.0
1058	0.0	0.07	0.0	0,47,0	4.02e-06	6.31e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	7.22e-04	7.03e-05	0.0	47,47,0	2.98e-06	9.33e-04	2.25e-04	47,47,47			1.00	0.08	0.92
1059	0.0	0.07	0.0	0,47,0	4.02e-06	6.31e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	7.22e-04	7.03e-05	0.0	47,47,0	2.98e-06	9.33e-04	2.25e-04	47,47,47			1.00	0.08	0.92
1451	0.0	0.01	0.0	0,47,0	0.0	5.85e-06	3.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.69e-04	0.0	0,47,0	0.0	2.17e-05	2.35e-04	47,47,47			0.0	0.0	0.0
1452	0.0	0.01	0.0	0,47,0	2.88e-06	5.85e-06	4.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.26e-04	0.0	0,47,0	2.86e-06	2.17e-05	2.36e-04	47,47,47			0.0	0.0	0.0
1453	0.0	0.02	0.0	0,47,0	1.01e-05	1.64e-05	6.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.26e-04	0.0	0,47,0	1.01e-05	4.42e-05	2.36e-04	47,47,47			0.0	0.0	0.0
1454	0.0	0.02	0.0	0,47,0	3.39e-05	1.64e-05	6.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.02e-04	0.0	0,47,0	3.38e-05	4.65e-05	2.35e-04	47,47,47			0.0	0.0	0.0
1455	0.0	5.09e-03	0.0	0,47,0	3.39e-05	1.19e-04	1.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	2.13e-04	0.0	47,47,0	3.38e-05	1.56e-03	1.26e-04	47,47,47			1.00	0.08	0.92
1456	0.0	0.05	0.0	0,47,0	6.74e-06	6.31e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.94e-03	0.0	0.0	47,0,0	6.58e-06	3.68e-03	1.64e-03	47,47,47			1.00	0.08	0.92
1619	0.0	0.05	0.0	0,47,0	6.74e-06	6.31e-04	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.94e-03	0.0	0.0	47,0,0	6.58e-06	3.68e-03	1.64e-03	47,47,47			1.00	0.08	0.92
2061	0.0	8.25e-03	0.0	0,47,0	0.0	2.60e-05	2.57e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.89e-04	0.0	0,47,0	0.0	1.61e-05	2.01e-04	47,47,47			0.0	0.0	0.0
2062	0.0	0.01	0.0	0,47,0	3.30e-06	2.60e-05	3.19e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.89e-04	0.0	0,47,0	3.28e-06	2.14e-05	2.01e-04	47,47,47			0.0	0.0	0.0
2063	0.0	0.02	0.0	0,47,0	1.46e-05	2.38e-05	4.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.87e-04	0.0	0,47,0	1.46e-05	3.28e-05	1.96e-04	47,47,47			0.0	0.0	0.0
2064	0.0	0.02	0.0	0,47,0	3.39e-05	2.98e-05	4.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.74e-04	0.0	0,47,0	3.38e-05	4.98e-05	1.90e-04	47,47,47			0.0	0.0	0.0
2065	0.0	6.37e-03	0.0	0,47,0	3.39e-05	1.19e-04	2.08e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	5.74e-04	0.0	47,47,0	3.38e-05	1.56e-03	2.61e-04	47,47,47			1.00	0.08	0.92
2066	0.0	0.03	0.0	0,47,0	3.03e-05	3.83e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.94e-03	6.00e-04	0.0	47,47,0	3.01e-05	3.68e-03	1.64e-03	47,47,47			1.00	0.08	0.92
2067	0.0	0.03	0.0	0,47,0	3.03e-05	3.83e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.94e-03	6.00e-04	0.0	47,47,0	3.01e-05	3.68e-03	1.64e-03	47,47,47			1.00	0.08	0.92
2822	0.0	5.54e-03	0.0	0,47,0	0.0	2.60e-05	1.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.71e-04	0.0	0,47,0	0.0	1.61e-05	1.13e-04	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



3195	0.0	8.82e-04	0.0	0,47,0	1.41e-06	3.68e-05	3.67e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	9.96e-04	0.0	0.0	47,0,0	1.40e-06	1.20e-03	5.31e-05	47,47,47			1.00	0.08	0.92	
3196	0.0	6.53e-04	0.0	0,47,0	0.0	1.79e-06	2.24e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.06e-03	0.0	0.0	47,0,0	0.0	1.26e-03	8.84e-06	47,47,47			1.00	0.08	0.92	
3197	0.0	7.21e-04	0.0	0,47,0	0.0	2.58e-06	2.51e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.06e-03	0.0	0.0	47,0,0	0.0	1.26e-03	1.51e-05	47,47,47			1.00	0.08	0.92	
3198	0.0	8.76e-04	0.0	0,47,0	1.09e-06	8.04e-06	3.11e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	1.01e-03	0.0	0.0	47,0,0	1.07e-06	1.20e-03	1.96e-05	47,47,47			1.00	0.08	0.92	
3199	0.0	8.92e-04	0.0	0,47,0	4.69e-06	8.04e-06	3.13e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	8.59e-04	0.0	0.0	47,0,0	4.66e-06	1.03e-03	4.22e-05	47,47,47			1.00	0.08	0.92	
3200	0.0	8.92e-04	0.0	0,47,0	9.44e-06	6.70e-06	3.13e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.30e-04	5.96e-05	0.0	47,47,0	9.42e-06	7.74e-04	5.97e-05	47,47,47			1.00	0.08	0.92	
3201	0.0	1.63e-03	0.0	0,47,0	1.46e-05	6.51e-05	6.77e-04	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.97e-04	5.47e-04	0.0	47,47,0	1.46e-05	4.15e-04	1.69e-04	47,47,47			1.00	0.08	0.92	
3202	0.0	7.52e-03	0.0	0,47,0	4.44e-05	2.75e-04	2.94e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.95e-04	0.0	0,47,0	4.43e-05	1.98e-04	3.18e-04	47,47,47			0.0	0.0	0.0	0.0
3203	0.0	7.52e-03	0.0	0,47,0	4.44e-05	2.75e-04	2.94e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.95e-04	0.0	0,47,0	4.43e-05	1.56e-04	3.18e-04	47,47,47			0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	1.06e-03	9.50e-03	0.0		4.44e-05	1.26e-03	3.67e-03		0.0					

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
122	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2876	0.0	4.61e-03	0.0	0,47,0	3.71e-06	1.59e-04	1.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.78e-04	0.0	0,47,0	3.67e-06	4.55e-05	1.02e-04	47,47,47			0.0	0.0	0.0
2877	0.0	4.61e-03	0.0	0,47,0	2.22e-05	3.07e-04	1.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.95e-04	5.76e-04	0.0	47,47,0	2.21e-05	9.46e-04	5.32e-04	47,47,47			1.00	0.08	0.92
2878	0.0	2.93e-03	0.0	0,47,0	3.90e-05	4.16e-04	1.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.28e-04	6.18e-04	0.0	47,47,0	3.89e-05	1.40e-03	5.32e-04	47,47,47			1.00	0.08	0.92
2879	0.0	2.93e-03	0.0	0,47,0	3.90e-05	4.16e-04	1.53e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.28e-04	6.18e-04	0.0	47,47,0	3.89e-05	1.40e-03	4.44e-04	47,47,47			1.00	0.08	0.92
2880	0.0	2.74e-03	0.0	0,47,0	2.97e-05	2.61e-04	1.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.60e-04	0.0	0,47,0	2.96e-05	3.83e-04	4.00e-04	47,47,47			0.0	0.0	0.0
2881	0.0	2.36e-03	0.0	0,47,0	2.97e-05	5.50e-05	8.54e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.60e-04	0.0	0,47,0	2.96e-05	1.32e-04	1.41e-04	47,47,47			0.0	0.0	0.0
2882	0.0	2.36e-03	0.0	0,47,0	1.76e-05	5.93e-06	8.06e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.60e-04	0.0	0,47,0	1.75e-05	5.01e-05	1.32e-04	47,47,47			0.0	0.0	0.0
3145	0.0	4.61e-03	0.0	0,47,0	3.71e-06	1.59e-04	1.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.78e-04	0.0	0,47,0	3.67e-06	1.17e-04	1.74e-04	47,47,47			0.0	0.0	0.0
3146	0.0	4.61e-03	0.0	0,47,0	2.22e-05	3.07e-04	1.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.95e-04	1.04e-03	0.0	47,47,0	2.21e-05	9.46e-04	9.17e-04	47,47,47			1.00	0.08	0.92
3147	0.0	4.99e-03	0.0	0,47,0	3.93e-05	4.16e-04	2.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	9.28e-04	1.60e-03	0.0	47,47,0	3.93e-05	1.40e-03	1.46e-03	47,47,47			1.00	0.08	0.92
3148	8.48e-04	4.99e-03	0.0	47,47,0	3.93e-05	1.06e-03	2.27e-03	47,47,47	0.0	0	0.94	0.09	0.91
	9.28e-04	1.60e-03	0.0	47,47,0	3.93e-05	1.40e-03	1.46e-03	47,47,47			1.00	0.08	0.92
3149	8.48e-04	2.74e-03	0.0	47,47,0	2.97e-05	1.06e-03	1.31e-03	47,47,47	0.0	0	0.94	0.09	0.91
	0.0	6.83e-04	0.0	0,47,0	2.96e-05	4.22e-04	6.14e-04	47,47,47			0.0	0.0	0.0
3150	0.0	2.36e-03	0.0	0,47,0	2.97e-05	5.50e-05	8.54e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.09e-04	0.0	0,47,0	2.96e-05	1.32e-04	1.80e-04	47,47,47			0.0	0.0	0.0
3151	0.0	2.36e-03	0.0	0,47,0	1.76e-05	5.93e-06	8.06e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.60e-04	0.0	0,47,0	1.75e-05	5.01e-05	1.32e-04	47,47,47			0.0	0.0	0.0
3213	0.0	2.08e-03	0.0	0,47,0	3.11e-06	1.54e-04	9.31e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.64e-04	0.0	0,47,0	3.02e-06	1.17e-04	1.74e-04	47,47,47			0.0	0.0	0.0
3214	0.0	3.55e-03	0.0	0,47,0	1.81e-05	2.45e-04	1.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.04e-03	0.0	0,47,0	1.80e-05	6.87e-04	9.17e-04	47,47,47			0.0	0.0	0.0
3215	0.0	4.99e-03	0.0	0,47,0	3.93e-05	3.14e-04	2.27e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.60e-03	0.0	0,47,0	3.93e-05	1.14e-03	1.46e-03	47,47,47			0.0	0.0	0.0
3216	8.48e-04	4.99e-03	0.0	47,47,0	3.93e-05	1.06e-03	2.27e-03	47,47,47	0.0	0	0.94	0.09	0.91
	0.0	1.60e-03	0.0	0,47,0	3.93e-05	1.14e-03	1.46e-03	47,47,47			0.0	0.0	0.0
3217	8.48e-04	1.85e-03	0.0	47,47,0	2.92e-05	1.06e-03	9.78e-04	47,47,47	0.0	0	0.94	0.09	0.91
	0.0	6.83e-04	0.0	0,47,0	2.91e-05	4.22e-04	6.14e-04	47,47,47			0.0	0.0	0.0
3218	0.0	1.02e-03	0.0	0,47,0	2.45e-05	3.65e-05	4.21e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.09e-04	0.0	0,47,0	2.45e-05	3.89e-05	1.80e-04	47,47,47			0.0	0.0	0.0
3219	0.0	8.30e-04	0.0	0,47,0	1.56e-05	4.69e-06	2.86e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.56e-04	0.0	0,47,0	1.56e-05	3.89e-05	9.55e-05	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

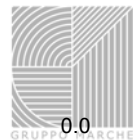


Nodo V. 127 V. 128 V. 545 V. 129 V. 130 V. 131 V. D.26
 9.28e-04 4.99e-03 0.0 3.93e-05 1.40e-03 2.27e-03 0.0

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
123	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
318	0.0	0.03	0.0	0,47,0	1.68e-06	3.84e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.17e-05	9.82e-06	0.0	47,47,0	1.53e-06	3.16e-05	4.01e-06	47,47,47			1.00	0.08	0.92
326	0.0	0.03	0.0	0,47,0	1.74e-06	1.41e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.17e-05	2.92e-05	0.0	47,47,0	1.63e-06	3.16e-05	2.30e-05	47,47,47			1.00	0.08	0.92
334	0.0	0.03	0.0	0,47,0	1.98e-06	3.06e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.51e-05	0.0	0,47,0	1.88e-06	3.10e-05	4.33e-05	47,47,47			0.0	0.0	0.0
342	0.0	0.04	0.0	0,47,0	3.47e-06	3.16e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.34e-04	0.0	0,47,0	3.27e-06	8.56e-05	1.11e-04	47,47,47			0.0	0.0	0.0
350	0.0	0.04	0.0	0,47,0	3.47e-06	3.16e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.93e-04	0.0	0,47,0	3.27e-06	2.19e-04	4.34e-04	47,47,47			0.0	0.0	0.0
367	0.0	0.01	0.0	0,47,0	1.41e-06	1.72e-05	4.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.93e-04	0.0	0,47,0	1.36e-06	2.19e-04	4.34e-04	47,47,47			0.0	0.0	0.0
453	0.0	0.03	0.0	0,47,0	1.68e-06	5.56e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.26e-04	9.82e-06	0.0	47,47,0	1.53e-06	1.74e-04	8.84e-06	47,47,47			1.00	0.08	0.92
455	0.0	0.03	0.0	0,47,0	1.74e-06	1.41e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.26e-04	6.77e-05	0.0	47,47,0	1.63e-06	1.74e-04	2.30e-05	47,47,47			1.00	0.08	0.92
457	0.0	0.03	0.0	0,47,0	1.98e-06	3.06e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.82e-05	6.77e-05	0.0	47,47,0	1.88e-06	1.49e-04	6.31e-05	47,47,47			1.00	0.08	0.92
459	0.0	0.04	0.0	0,47,0	4.80e-06	3.16e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.29e-04	1.34e-04	0.0	47,47,0	4.68e-06	1.92e-04	1.11e-04	47,47,47			1.00	0.08	0.92
461	0.0	0.04	0.0	0,47,0	4.80e-06	4.97e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.29e-04	7.93e-04	0.0	47,47,0	4.68e-06	2.19e-04	4.34e-04	47,47,47			1.00	0.08	0.92
467	0.0	0.02	0.0	0,47,0	1.41e-06	4.97e-05	7.11e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.93e-04	0.0	0,47,0	1.36e-06	2.19e-04	4.34e-04	47,47,47			0.0	0.0	0.0
1137	0.0	0.03	0.0	0,47,0	1.46e-06	5.56e-06	9.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.49e-04	3.04e-05	0.0	47,47,0	1.31e-06	2.08e-04	1.68e-05	47,47,47			1.00	0.08	0.92
1145	0.0	0.03	0.0	0,47,0	1.52e-06	1.61e-05	1.00e-02	47,47,47	0.0	0	0.0	0.0	0.0
	1.62e-04	1.22e-04	0.0	47,47,0	1.39e-06	2.48e-04	4.04e-05	47,47,47			1.00	0.08	0.92
1153	0.0	0.03	0.0	0,47,0	1.79e-06	2.38e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-04	2.01e-04	0.0	47,47,0	1.69e-06	3.19e-04	6.50e-05	47,47,47			1.00	0.08	0.92
1161	0.0	0.03	0.0	0,47,0	4.80e-06	6.22e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-04	2.01e-04	0.0	47,47,0	4.68e-06	3.19e-04	1.60e-04	47,47,47			1.00	0.08	0.92
1169	0.0	0.03	0.0	0,47,0	4.80e-06	7.93e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.29e-04	4.80e-04	0.0	47,47,0	4.68e-06	1.92e-04	2.22e-04	47,47,47			1.00	0.08	0.92
1186	0.0	0.03	0.0	0,47,0	1.55e-06	7.93e-05	8.56e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.80e-04	0.0	0,47,0	1.45e-06	1.06e-04	2.22e-04	47,47,47			0.0	0.0	0.0
1573	0.0	0.03	0.0	0,47,0	1.10e-06	5.28e-06	9.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.49e-04	6.23e-05	0.0	47,47,0	0.0	2.08e-04	1.97e-05	47,47,47			1.00	0.08	0.92
1580	0.0	0.03	0.0	0,47,0	1.25e-06	1.61e-05	9.36e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.62e-04	1.58e-04	0.0	47,47,0	1.11e-06	2.48e-04	6.12e-05	47,47,47			1.00	0.08	0.92
1585	0.0	0.03	0.0	0,47,0	1.68e-06	3.50e-05	9.59e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-04	3.58e-04	0.0	47,47,0	1.54e-06	3.19e-04	1.63e-04	47,47,47			1.00	0.08	0.92
1588	0.0	0.03	0.0	0,47,0	3.99e-06	6.67e-05	9.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.35e-04	7.35e-04	0.0	47,47,0	3.87e-06	6.34e-04	2.45e-04	47,47,47			1.00	0.08	0.92
1592	0.0	0.03	0.0	0,47,0	3.99e-06	2.59e-04	9.79e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.35e-04	9.25e-04	0.0	47,47,0	3.87e-06	6.34e-04	7.30e-04	47,47,47			1.00	0.08	0.92
1642	0.0	0.03	0.0	0,47,0	2.39e-06	2.59e-04	9.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.25e-04	0.0	0,47,0	2.21e-06	5.67e-04	7.30e-04	47,47,47			0.0	0.0	0.0
2171	0.0	0.03	0.0	0,47,0	0.0	7.24e-06	8.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.04e-05	6.23e-05	0.0	47,47,0	0.0	5.64e-05	1.97e-05	47,47,47			1.00	0.08	0.92
2179	0.0	0.03	0.0	0,47,0	0.0	1.23e-05	8.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.04e-05	1.58e-04	0.0	47,47,0	0.0	5.64e-05	6.12e-05	47,47,47			1.00	0.08	0.92
2187	0.0	0.03	0.0	0,47,0	1.50e-06	3.74e-05	8.83e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.34e-05	3.58e-04	0.0	47,47,0	1.43e-06	2.02e-04	1.63e-04	47,47,47			1.00	0.08	0.92
2195	0.0	0.03	0.0	0,47,0	2.75e-06	6.67e-05	9.14e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.35e-04	7.35e-04	0.0	47,47,0	2.65e-06	6.34e-04	2.85e-04	47,47,47			1.00	0.08	0.92
2203	0.0	0.03	0.0	0,47,0	2.75e-06	3.35e-04	9.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.35e-04	9.25e-04	0.0	47,47,0	2.65e-06	1.14e-03	1.33e-03	47,47,47			1.00	0.08	0.92
2240	0.0	0.03	0.0	0,47,0	2.39e-06	3.35e-04	9.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.25e-04	0.0	0,47,0	2.21e-06	1.14e-03	1.33e-03	47,47,47			0.0	0.0	0.0

**Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO**



2532	0.0	0.02	0.0	0,47,0	1.97e-06	3.35e-04	7.87e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.50e-04	0.0	0,47,0	1.63e-06	1.14e-03	1.33e-03	47,47,47			0.0	0.0	0.0
2567	0.0	0.03	0.0	0,47,0	1.97e-06	3.35e-04	8.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.50e-04	0.0	0,47,0	1.82e-06	1.14e-03	1.33e-03	47,47,47			0.0	0.0	0.0
2585	0.0	0.03	0.0	0,47,0	1.97e-06	6.41e-05	8.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.78e-04	0.0	0,47,0	1.82e-06	2.55e-04	2.85e-04	47,47,47			0.0	0.0	0.0
2608	0.0	0.03	0.0	0,47,0	1.09e-06	3.74e-05	8.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-05	8.89e-05	0.0	47,47,0	1.02e-06	2.54e-05	4.99e-05	47,47,47			1.00	0.08	0.92
2627	0.0	0.03	0.0	0,47,0		1.23e-05	8.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-05	4.67e-05	0.0	47,47,0		2.20e-05	2.35e-05	47,47,47			1.00	0.08	0.92
2643	0.0	0.03	0.0	0,47,0		7.24e-06	8.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.67e-05	0.0	0,47,0		9.45e-06	1.91e-05	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	3.35e-04	0.04	0.0		4.80e-06	1.14e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
124	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
278	0.0	0.02	0.0	0,47,0	0.0	7.32e-05	5.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-04	0.0	0,47,0	0.0	7.31e-05	1.06e-04	47,47,47			0.0	0.0	0.0
279	0.0	0.02	0.0	0,47,0	0.0	7.32e-05	5.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.76e-04	0.0	0,47,0	0.0	1.03e-04	1.53e-04	47,47,47			0.0	0.0	0.0
280	0.0	0.02	0.0	0,47,0	0.0	5.73e-04	7.24e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.76e-04	0.0	0,47,0	0.0	7.01e-04	7.27e-04	47,47,47			0.0	0.0	0.0
281	0.0	0.02	0.0	0,47,0	0.0	9.53e-04	7.24e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.67e-05	2.35e-04	0.0	47,47,0	0.0	7.01e-04	7.27e-04	47,47,47			1.00	0.07	0.93
282	0.0	0.01	0.0	0,47,0	0.0	9.53e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.67e-05	2.35e-04	0.0	47,47,0	0.0	6.37e-04	6.76e-04	47,47,47			1.00	0.07	0.93
283	0.0	0.01	0.0	0,47,0	0.0	1.48e-04	4.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.99e-04	0.0	0,47,0	0.0	6.12e-05	1.07e-04	47,47,47			0.0	0.0	0.0
725	0.0	0.02	0.0	0,47,0	0.0	7.32e-05	5.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.52e-04	0.0	0,47,0	0.0	8.06e-05	1.69e-04	47,47,47			0.0	0.0	0.0
726	0.0	0.02	0.0	0,47,0	0.0	7.32e-05	5.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.95e-04	0.0	0,47,0	0.0	1.22e-04	2.40e-04	47,47,47			0.0	0.0	0.0
727	0.0	0.02	0.0	0,47,0	0.0	5.73e-04	7.24e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.95e-04	0.0	0,47,0	0.0	7.01e-04	7.27e-04	47,47,47			0.0	0.0	0.0
728	0.0	0.02	0.0	0,47,0	0.0	9.53e-04	7.24e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.67e-05	4.33e-04	0.0	47,47,0	0.0	7.01e-04	7.27e-04	47,47,47			1.00	0.07	0.93
729	0.0	0.01	0.0	0,47,0	1.02e-06	9.53e-04	4.30e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.52e-04	2.35e-04	0.0	47,47,0	0.0	6.37e-04	6.76e-04	47,47,47			1.00	0.07	0.93
730	0.0	0.01	0.0	0,47,0	1.02e-06	1.48e-04	4.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.52e-04	1.99e-04	0.0	47,47,0	0.0	2.45e-04	1.07e-04	47,47,47			1.00	0.07	0.93
1097	0.0	0.02	0.0	0,47,0	0.0	4.25e-05	4.99e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.62e-04	0.0	0,47,0	0.0	8.06e-05	2.59e-04	47,47,47			0.0	0.0	0.0
1098	0.0	0.02	0.0	0,47,0	0.0	8.28e-05	4.99e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.62e-04	0.0	0,47,0	0.0	1.22e-04	2.67e-04	47,47,47			0.0	0.0	0.0
1099	0.0	0.02	0.0	0,47,0	2.34e-06	4.39e-04	6.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.59e-04	0.0	0,47,0	2.24e-06	4.89e-04	6.85e-04	47,47,47			0.0	0.0	0.0
1100	0.0	0.02	0.0	0,47,0	2.34e-06	1.15e-03	6.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.72e-03	2.02e-03	0.0	47,47,0	2.24e-06	2.82e-03	1.40e-03	47,47,47			1.00	0.07	0.93
1101	0.0	0.01	0.0	0,47,0	3.43e-06	1.15e-03	3.95e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.36e-03	2.02e-03	0.0	47,47,0	2.97e-06	3.67e-03	1.97e-03	47,47,47			1.00	0.07	0.93
1102	0.0	0.01	0.0	0,47,0	3.43e-06	2.33e-04	3.90e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.36e-03	1.97e-03	0.0	47,47,0	2.97e-06	3.67e-03	1.97e-03	47,47,47			1.00	0.07	0.93
1485	0.0	0.01	0.0	0,47,0	0.0	1.63e-05	4.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.38e-03	0.0	0,47,0	0.0	5.26e-05	4.18e-04	47,47,47			0.0	0.0	0.0
1486	0.0	0.01	0.0	0,47,0	0.0	8.28e-05	4.29e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.42e-03	0.0	0,47,0	0.0	1.10e-04	5.10e-04	47,47,47			0.0	0.0	0.0
1487	0.0	0.02	0.0	0,47,0	5.35e-06	1.95e-04	5.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.89e-03	0.0	0,47,0	5.18e-06	4.89e-04	6.85e-04	47,47,47			0.0	0.0	0.0
1488	0.01	0.02	0.0	47,47,0	1.95e-05	0.02	0.01	47,47,47	0.0	0	0.98	0.05	0.95
	2.36e-03	2.02e-03	0.0	47,47,0	1.43e-05	3.67e-03	2.32e-03	47,47,47			1.00	0.07	0.93
1523	0.01	0.02	0.0	47,47,0	1.95e-05	0.02	0.01	47,47,47	0.0	0	0.98	0.05	0.95
	2.36e-03	1.97e-03	0.0	47,47,0	1.43e-05	3.67e-03	2.32e-03	47,47,47			1.00	0.07	0.93
1621	2.63e-03	0.02	0.0	47,47,0	5.35e-06	2.83e-03	5.50e-03	47,47,47	0.0	0	0.98	0.05	0.95
	1.72e-03	2.02e-03	0.0	47,47,0	5.18e-06	2.82e-03	1.40e-03	47,47,47			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO

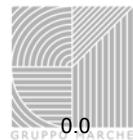


2121	0.0	0.01	0.0	0,47,0	3.49e-06	7.83e-05	3.35e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.38e-03	0.0	0,47,0	3.43e-06	1.18e-04	4.18e-04	47,47,47			0.0	0.0	0.0	0.0
2122	0.0	0.01	0.0	0,47,0	3.49e-06	1.97e-04	3.51e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.42e-03	0.0	0,47,0	3.43e-06	3.29e-04	5.74e-04	47,47,47			0.0	0.0	0.0	0.0
2123	0.0	0.01	0.0	0,47,0	5.35e-06	4.28e-04	4.75e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.25e-03	0.0	0,47,0	5.18e-06	6.98e-04	6.95e-04	47,47,47			0.0	0.0	0.0	0.0
2124	2.63e-03	0.01	0.0	47,47,0	7.81e-06	3.02e-03	5.49e-03	47,47,47	0.0	0	0.98	0.05	0.95	0.95
	0.0	2.25e-03	0.0	0,47,0	7.08e-06	1.61e-03	1.97e-03	47,47,47			0.0	0.0	0.0	0.0
2125	0.01	0.02	0.0	47,47,0	1.95e-05	0.02	0.01	47,47,47	0.0	0	0.98	0.05	0.95	0.95
	0.0	2.08e-03	0.0	0,47,0	1.43e-05	3.23e-03	3.40e-03	47,47,47			0.0	0.0	0.0	0.0
2126	0.01	0.02	0.0	47,47,0	1.95e-05	0.02	0.01	47,47,47	0.0	0	0.98	0.05	0.95	0.95
	0.0	1.76e-03	0.0	0,47,0	1.43e-05	3.23e-03	3.40e-03	47,47,47			0.0	0.0	0.0	0.0
2882	0.0	7.14e-03	0.0	0,47,0	3.49e-06	7.83e-05	2.30e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.82e-04	0.0	0,47,0	3.43e-06	1.18e-04	2.93e-04	47,47,47			0.0	0.0	0.0	0.0
2883	0.0	7.77e-03	0.0	0,47,0	3.49e-06	1.97e-04	2.63e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	9.78e-04	0.0	0,47,0	3.43e-06	3.29e-04	5.74e-04	47,47,47			0.0	0.0	0.0	0.0
2884	0.0	8.56e-03	0.0	0,47,0	0.0	4.28e-04	3.10e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.25e-03	0.0	0,47,0	0.0	6.98e-04	6.95e-04	47,47,47			0.0	0.0	0.0	0.0
2885	1.35e-03	9.64e-03	0.0	47,47,0	7.81e-06	3.02e-03	5.49e-03	47,47,47	0.0	0	0.98	0.05	0.95	0.95
	0.0	2.25e-03	0.0	0,47,0	7.08e-06	1.61e-03	1.97e-03	47,47,47			0.0	0.0	0.0	0.0
2886	0.01	0.02	0.0	47,47,0	7.81e-06	0.01	0.01	47,47,47	0.0	0	0.98	0.05	0.95	0.95
	0.0	2.08e-03	0.0	0,47,0	7.08e-06	3.23e-03	3.40e-03	47,47,47			0.0	0.0	0.0	0.0
2887	0.01	0.02	0.0	47,47,0	4.75e-06	0.01	0.01	47,47,47	0.0	0	0.98	0.05	0.95	0.95
	0.0	7.21e-04	0.0	0,47,0	1.15e-06	3.23e-03	3.40e-03	47,47,47			0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.01	0.02	0.0		1.95e-05	0.02	0.01		0.0					

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
125	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
13	0.0	0.02	0.0	0,47,0	0.0	1.17e-04	4.92e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.83e-04	0.0	0,47,0	0.0	2.75e-04	4.44e-04	47,47,47			0.0	0.0	0.0
61	0.0	0.04	0.0	0,47,0	1.64e-06	1.17e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.08e-04	6.83e-04	0.0	47,47,0	1.50e-06	3.02e-04	4.44e-04	47,47,47			1.00	0.08	0.92
69	0.0	0.04	0.0	0,47,0	1.64e-06	5.99e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.08e-04	8.85e-05	0.0	47,47,0	1.50e-06	3.02e-04	1.32e-04	47,47,47			1.00	0.08	0.92
78	0.0	0.03	0.0	0,47,0	0.0	5.99e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.04e-04	0.0	0,47,0	0.0	6.94e-05	8.58e-05	47,47,47			0.0	0.0	0.0
86	0.0	0.03	0.0	0,47,0	0.0	1.68e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-04	0.0	0,47,0	0.0	2.39e-05	4.68e-05	47,47,47			0.0	0.0	0.0
94	0.0	0.04	0.0	0,47,0	0.0	8.71e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-04	0.0	0,47,0	0.0	6.10e-06	3.27e-05	47,47,47			0.0	0.0	0.0
102	0.0	0.04	0.0	0,47,0	0.0	8.79e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-04	0.0	0,47,0	0.0	0.0	3.27e-05	47,47,47			0.0	0.0	0.0
109	0.0	0.05	0.0	0,47,0	0.0	8.79e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-04	0.0	0,47,0	0.0	3.06e-05	47,47,47				0.0	0.0	0.0
116	0.0	0.05	0.0	0,47,0	0.0	7.37e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.54e-05	0.0	0,47,0	0.0	0.0	1.64e-05	47,47,47			0.0	0.0	0.0
122	0.0	0.02	0.0	0,47,0	1.06e-05	5.74e-05	6.32e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.22e-04	0.0	0,47,0	1.06e-05	3.18e-05	2.07e-04	47,47,47			0.0	0.0	0.0
131	0.0	0.02	0.0	0,47,0	1.06e-05	5.74e-05	6.32e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.22e-04	0.0	0,47,0	1.06e-05	3.18e-05	2.07e-04	47,47,47			0.0	0.0	0.0
482	0.0	0.02	0.0	0,47,0	0.0	1.66e-04	7.74e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.83e-04	0.0	0,47,0	0.0	2.75e-04	4.44e-04	47,47,47			0.0	0.0	0.0
530	0.0	0.04	0.0	0,47,0	2.99e-06	1.66e-04	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.08e-04	6.83e-04	0.0	47,47,0	2.84e-06	3.02e-04	4.44e-04	47,47,47			1.00	0.08	0.92
538	0.0	0.04	0.0	0,47,0	2.99e-06	6.07e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.08e-04	2.16e-04	0.0	47,47,0	2.84e-06	3.02e-04	1.74e-04	47,47,47			1.00	0.08	0.92
547	0.0	0.03	0.0	0,47,0	0.0	5.99e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.73e-04	0.0	0,47,0	0.0	6.94e-05	1.05e-04	47,47,47			0.0	0.0	0.0
555	0.0	0.03	0.0	0,47,0	0.0	1.68e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.75e-04	0.0	0,47,0	0.0	2.39e-05	8.26e-05	47,47,47			0.0	0.0	0.0
563	0.0	0.04	0.0	0,47,0	0.0	8.71e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.75e-04	0.0	0,47,0	0.0	1.73e-05	8.50e-05	47,47,47			0.0	0.0	0.0
571	0.0	0.04	0.0	0,47,0	0.0	8.79e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.71e-04	0.0	0,47,0	0.0	1.53e-05	8.50e-05	47,47,47			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



2467	0.0	4.29e-04	0.0	0,47,0	1.60e-06	1.66e-04	2.62e-04	47,47,47		0.0	0.0	0.0	0.0
	0.0	0.03	0.0	0,47,0	1.66e-06	1.05e-04	8.22e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.29e-04	0.0	0,47,0	1.60e-06	2.07e-04	2.62e-04	47,47,47		0.0	0.0	0.0	0.0
2485	0.0	0.03	0.0	0,47,0	0.0	1.05e-04	8.38e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.20e-04	2.07e-04	0.0	47,47,0	0.0	2.07e-04	2.51e-04	47,47,47		1.00	0.08	0.92	
2555	0.0	0.03	0.0	0,47,0	0.0	3.53e-05	8.38e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.17e-04	0.0	0.0	47,0,0	0.0	2.66e-04	4.41e-05	47,47,47		1.00	0.08	0.92	
2571	0.0	0.03	0.0	0,47,0	0.0	6.19e-06	8.39e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.64e-04	0.0	0.0	47,0,0	0.0	4.39e-04	2.09e-05	47,47,47		1.00	0.08	0.92	
2587	0.0	0.03	0.0	0,47,0	0.0	8.24e-06	8.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.20e-04	0.0	0.0	47,0,0	0.0	5.00e-04	8.85e-06	47,47,47		1.00	0.08	0.92	
2605	0.0	0.03	0.0	0,47,0	1.77e-06	8.83e-06	8.66e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.20e-04	0.0	0.0	47,0,0	1.66e-06	5.00e-04	8.85e-06	47,47,47		1.00	0.08	0.92	
2623	0.0	0.03	0.0	0,47,0	1.29e-05	8.83e-06	9.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.02e-04	0.0	0.0	47,0,0	1.28e-05	4.75e-04	1.60e-06	47,47,47		1.00	0.08	0.92	
2636	0.0	0.03	0.0	0,47,0	1.29e-05	4.90e-06	9.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.17e-04	3.97e-04	0.0	47,47,0	1.28e-05	1.43e-04	1.14e-04	47,47,47		1.00	0.08	0.92	
2657	0.0	0.02	0.0	0,47,0	1.15e-04	2.01e-05	7.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.97e-04	0.0	0,47,0	1.15e-04	1.83e-05	1.14e-04	47,47,47		0.0	0.0	0.0	0.0
2670	0.0	0.02	0.0	0,47,0	1.15e-04	2.01e-05	7.20e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.72e-04	0.0	0,47,0	1.15e-04	1.83e-05	6.39e-05	47,47,47		0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.89e-03	0.05	0.0		1.15e-04	2.23e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
126	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2882	0.0	2.67e-03	0.0	0,47,0	5.73e-06	3.27e-05	9.45e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.93e-04	0.0	0,47,0	5.70e-06	7.63e-06	1.18e-04	47,47,47		0.0	0.0	0.0	0.0
2883	0.0	2.76e-03	0.0	0,47,0	5.73e-06	3.27e-05	9.45e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.58e-04	0.0	0,47,0	5.70e-06	5.23e-05	2.02e-04	47,47,47		0.0	0.0	0.0	0.0
2884	0.0	4.03e-03	0.0	0,47,0	1.29e-06	8.54e-05	1.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.28e-04	0.0	0,47,0	1.26e-06	7.22e-05	2.44e-04	47,47,47		0.0	0.0	0.0	0.0
2885	0.0	4.03e-03	0.0	0,47,0	1.29e-06	8.54e-05	1.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.28e-04	0.0	0,47,0	1.26e-06	7.22e-05	2.44e-04	47,47,47		0.0	0.0	0.0	0.0
3000	0.0	4.03e-03	0.0	0,47,0	1.29e-06	8.54e-05	1.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	6.28e-04	0.0	0,47,0	1.26e-06	1.03e-04	2.44e-04	47,47,47		0.0	0.0	0.0	0.0
3151	0.0	2.67e-03	0.0	0,47,0	6.33e-06	3.27e-05	9.45e-04	47,47,47	0.0	0	0.0	0.0	0.0
	2.81e-04	3.93e-04	0.0	47,47,0	6.30e-06	3.44e-04	1.18e-04	47,47,47		1.00	0.08	0.92	
3152	0.0	2.76e-03	0.0	0,47,0	6.33e-06	3.27e-05	9.45e-04	47,47,47	0.0	0	0.0	0.0	0.0
	2.81e-04	5.58e-04	0.0	47,47,0	6.30e-06	3.44e-04	2.02e-04	47,47,47		1.00	0.08	0.92	
3153	0.0	4.03e-03	0.0	0,47,0	1.35e-06	8.54e-05	1.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.32e-04	6.28e-04	0.0	47,47,0	1.34e-06	3.19e-04	2.44e-04	47,47,47		1.00	0.08	0.92	
3219	0.0	9.68e-04	0.0	0,47,0	6.33e-06	1.75e-05	3.56e-04	47,47,47	0.0	0	0.0	0.0	0.0
	2.81e-04	0.0	0.0	47,0,0	6.30e-06	3.44e-04	1.08e-05	47,47,47		1.00	0.08	0.92	
3220	0.0	1.09e-03	0.0	0,47,0	6.33e-06	1.75e-05	3.86e-04	47,47,47	0.0	0	0.0	0.0	0.0
	2.81e-04	0.0	0.0	47,0,0	6.30e-06	3.44e-04	1.83e-05	47,47,47		1.00	0.08	0.92	
3221	0.0	2.65e-03	0.0	0,47,0	1.35e-06	5.45e-05	1.02e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.32e-04	1.50e-04	0.0	47,47,0	1.34e-06	3.19e-04	1.32e-04	47,47,47		1.00	0.08	0.92	
3222	0.0	2.65e-03	0.0	0,47,0	0.0	5.45e-05	1.02e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.50e-04	0.0	0,47,0	0.0	1.03e-04	1.32e-04	47,47,47		0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	2.81e-04	4.03e-03	0.0		6.33e-06	3.44e-04	1.51e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
127	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1935	0.0	0.03	0.0	0,47,0	4.62e-05	1.23e-03	0.01	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	6.30e-04	1.72e-03	0.0	47,47,0	4.60e-05	1.58e-03	1.85e-03	47,47,47			1.00	0.08	0.92	
1936	0.0	0.02	0.0	0,47,0	7.84e-06	1.60e-04	5.36e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.04e-03	0.0	0,47,0	7.68e-06	4.07e-04	6.26e-04	47,47,47			0.0	0.0	0.0	0.0
1937	0.0	5.73e-03	0.0	0,47,0	7.84e-06	1.87e-04	1.99e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	4.84e-04	1.27e-03	0.0	47,47,0	7.68e-06	9.73e-04	1.16e-03	47,47,47			1.00	0.08	0.92	
1938	0.0	0.01	0.0	0,47,0	6.74e-05	2.67e-04	4.90e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	4.84e-04	1.27e-03	0.0	47,47,0	6.73e-05	9.73e-04	1.16e-03	47,47,47			1.00	0.08	0.92	
1939	0.0	0.01	0.0	0,47,0	6.74e-05	2.67e-04	4.90e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	8.63e-04	0.0	0,47,0	6.73e-05	8.72e-04	1.05e-03	47,47,47			0.0	0.0	0.0	0.0
2706	0.0	6.71e-03	0.0	0,47,0	7.90e-06	3.04e-04	2.42e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	4.84e-04	3.58e-04	0.0	47,47,0	7.68e-06	7.40e-04	1.32e-04	47,47,47			1.00	0.08	0.92	
2707	0.0	8.81e-03	0.0	0,47,0	1.81e-05	3.04e-04	3.03e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	4.84e-04	3.58e-04	0.0	47,47,0	1.77e-05	7.40e-04	3.97e-04	47,47,47			1.00	0.08	0.92	
2708	0.0	0.02	0.0	0,47,0	4.97e-05	2.46e-04	7.14e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.28e-04	1.25e-03	0.0	47,47,0	4.95e-05	1.81e-03	2.02e-03	47,47,47			1.00	0.08	0.92	
2709	0.0	0.02	0.0	0,47,0	4.97e-05	2.23e-04	7.14e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	2.28e-04	1.45e-03	0.0	47,47,0	4.95e-05	1.81e-03	2.02e-03	47,47,47			1.00	0.08	0.92	
2710	0.0	0.02	0.0	0,47,0	4.62e-05	2.23e-04	6.78e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.45e-03	0.0	0,47,0	4.60e-05	1.58e-03	1.85e-03	47,47,47			0.0	0.0	0.0	0.0
2711	0.0	8.21e-03	0.0	0,47,0	7.58e-06	1.60e-04	2.75e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	7.26e-04	0.0	0,47,0	7.31e-06	3.27e-04	4.23e-04	47,47,47			0.0	0.0	0.0	0.0
2712	0.0	5.70e-03	0.0	0,47,0	5.91e-06	1.15e-04	1.91e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	7.26e-04	0.0	0,47,0	5.77e-06	5.83e-04	7.66e-04	47,47,47			0.0	0.0	0.0	0.0
2713	0.0	7.94e-03	0.0	0,47,0	6.74e-05	1.15e-04	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	7.19e-04	0.0	0,47,0	6.73e-05	5.93e-04	7.66e-04	47,47,47			0.0	0.0	0.0	0.0
2714	0.0	7.94e-03	0.0	0,47,0	6.74e-05	7.02e-05	2.56e-03	47,47,47	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.39e-04	0.0	0,47,0	6.73e-05	5.93e-04	7.57e-04	47,47,47			0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	1.25e-03	0.04	0.0		6.74e-05	2.73e-03	0.01		0.0					

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
128	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	8.3	SI	ok

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
55	0.0	3.77e-03	0.0	0,47,0	0.0	2.22e-06	1.28e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.45e-04	0.0	0,47,0	0.0	9.04e-06	1.06e-04	47,47,47			0.0	0.0	0.0
60	0.0	0.01	0.0	0,47,0	0.0	2.22e-06	3.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.74e-05	3.45e-04	0.0	47,47,0	0.0	1.07e-04	1.06e-04	47,47,47			1.00	0.07	0.93
68	0.0	0.01	0.0	0,47,0	0.0	1.51e-06	3.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.74e-05	0.0	0.0	47,0,0	0.0	1.07e-04	3.49e-06	47,47,47			1.00	0.07	0.93
77	0.0	0.01	0.0	0,47,0	0.0	2.11e-06	3.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.19e-04	0.0	0.0	47,0,0	0.0	1.45e-04	3.49e-06	47,47,47			1.00	0.07	0.93
85	0.0	0.01	0.0	0,47,0	0.0	2.58e-05	4.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.19e-04	0.0	0.0	47,0,0	0.0	1.45e-04	1.29e-05	47,47,47			1.00	0.07	0.93
93	0.0	0.01	0.0	0,47,0	0.0	2.58e-05	4.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.07e-05	0.0	0.0	47,0,0	0.0	1.08e-04	1.29e-05	47,47,47			1.00	0.07	0.93
108	0.0	0.02	0.0	0,47,0	0.0	1.49e-06	5.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.87e-05	0.0	0.0	47,0,0	0.0	9.96e-05	1.80e-05	47,47,47			1.00	0.07	0.93
115	0.0	0.02	0.0	0,47,0	0.0	1.50e-06	5.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.80e-04	0.0	0.0	47,0,0	0.0	2.15e-04	1.80e-05	47,47,47			1.00	0.07	0.93
121	0.0	0.02	0.0	0,47,0	0.0	3.93e-06	4.96e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.80e-04	4.92e-04	0.0	47,47,0	0.0	2.15e-04	1.40e-04	47,47,47			1.00	0.07	0.93
177	0.0	6.32e-03	0.0	0,47,0	0.0	3.93e-06	1.97e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.92e-04	0.0	0,47,0	0.0	0.0	1.40e-04	47,47,47			0.0	0.0	0.0
524	0.0	4.97e-03	0.0	0,47,0	0.0	2.22e-06	1.69e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.45e-04	0.0	0,47,0	0.0	9.04e-06	1.06e-04	47,47,47			0.0	0.0	0.0
529	0.0	0.01	0.0	0,47,0	0.0	2.22e-06	3.45e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.74e-05	3.45e-04	0.0	47,47,0	0.0	1.07e-04	1.06e-04	47,47,47			1.00	0.07	0.93
537	0.0	0.01	0.0	0,47,0	0.0	1.51e-06	3.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.74e-05	2.62e-05	0.0	47,47,0	0.0	1.07e-04	8.23e-06	47,47,47			1.00	0.07	0.93
546	0.0	0.01	0.0	0,47,0	0.0	2.11e-06	3.88e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.19e-04	3.17e-05	0.0	47,47,0	0.0	1.45e-04	9.30e-06	47,47,47			1.00	0.07	0.93
554	0.0	0.01	0.0	0,47,0	1.04e-06	2.58e-05	4.64e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.19e-04	3.17e-05	0.0	47,47,0	0.0	1.45e-04	1.29e-05	47,47,47			1.00	0.07	0.93
562	0.0	0.01	0.0	0,47,0	1.04e-06	2.58e-05	4.64e-03	47,47,47	0.0	0	0.0	0.0	0.0
	8.07e-05	2.27e-05	0.0	47,47,0	0.0	1.08e-04	1.29e-05	47,47,47			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO

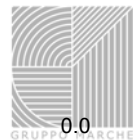


	1.10e-03	1.99e-04	0.0	47,47,0	0.0	1.78e-03	5.02e-04	47,47,47			1.00	0.07	0.93
2390	0.0	4.56e-03	0.0	0,47,0	3.96e-06	1.31e-05	1.57e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.48e-05	0.0	0,47,0	3.92e-06	4.47e-05	7.13e-05	47,47,47			0.0	0.0	0.0
2466	0.0	6.55e-03	0.0	0,47,0	3.96e-06	1.31e-05	2.23e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.20e-05	9.48e-05	0.0	47,47,0	3.92e-06	6.16e-05	7.13e-05	47,47,47			1.00	0.07	0.93
2484	0.0	8.35e-03	0.0	0,47,0	0.0	4.56e-06	2.60e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.48e-04	0.0	0.0	47,0,0	0.0	2.96e-04	6.12e-06	47,47,47			1.00	0.07	0.93
2554	0.0	8.84e-03	0.0	0,47,0	0.0	6.25e-06	2.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.89e-04	0.0	0.0	47,0,0	0.0	4.61e-04	7.04e-06	47,47,47			1.00	0.07	0.93
2570	0.0	8.84e-03	0.0	0,47,0	4.60e-06	6.25e-06	2.76e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.89e-04	0.0	0.0	47,0,0	4.57e-06	4.61e-04	7.04e-06	47,47,47			1.00	0.07	0.93
2582	0.0	8.64e-03	0.0	0,47,0	5.79e-06	8.74e-06	2.69e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.35e-04	0.0	0.0	47,0,0	5.76e-06	4.04e-04	4.12e-06	47,47,47			1.00	0.07	0.93
2600	0.0	7.49e-03	0.0	0,47,0	5.79e-06	1.04e-05	2.34e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.00e-04	0.0	0.0	47,0,0	5.76e-06	2.54e-04	9.31e-06	47,47,47			1.00	0.07	0.93
2612	0.0	7.39e-03	0.0	0,47,0	7.05e-06	1.46e-05	2.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.34e-04	0.0	0.0	47,0,0	7.00e-06	3.44e-04	2.18e-05	47,47,47			1.00	0.07	0.93
2618	0.0	8.47e-03	0.0	0,47,0	7.05e-06	1.68e-05	2.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	6.12e-04	0.0	0.0	47,0,0	7.00e-06	8.88e-04	4.54e-05	47,47,47			1.00	0.07	0.93
2635	0.0	8.47e-03	0.0	0,47,0	4.95e-06	8.22e-05	2.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.34e-03	0.0	0.0	47,0,0	4.89e-06	2.17e-03	9.33e-05	47,47,47			1.00	0.07	0.93
2652	0.0	7.48e-03	0.0	0,47,0	0.0	3.77e-04	2.64e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.34e-03	0.0	0.0	47,0,0	0.0	2.17e-03	5.02e-04	47,47,47			1.00	0.07	0.93
2722	0.0	6.11e-03	0.0	0,47,0	0.0	3.77e-04	2.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.10e-03	0.0	0.0	47,0,0	0.0	1.78e-03	5.02e-04	47,47,47			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.83e-03	0.02	0.0		2.05e-05	2.26e-03	5.03e-03		0.0				

Setto	Mat.	N. strati	Spessore residuo	Incoll.	Stato
			cm		
131	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	6.7	SI	ok

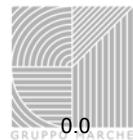
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
24	0.0	8.22e-03	0.0	0,47,0	0.0	1.81e-05	2.58e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.75e-04	0.0	0,47,0	0.0	4.19e-05	1.45e-04	47,47,47			0.0	0.0	0.0
48	0.0	0.02	0.0	0,47,0	2.74e-05	1.28e-06	5.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.46e-04	0.0	0,47,0	2.73e-05	0.0	2.40e-04	47,47,47			0.0	0.0	0.0
59	0.0	0.02	0.0	0,47,0	2.74e-05	1.28e-06	5.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.46e-04	0.0	0,47,0	2.73e-05	0.0	2.40e-04	47,47,47			0.0	0.0	0.0
64	0.0	0.03	0.0	0,47,0	1.91e-06	1.81e-05	7.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.06e-04	3.75e-04	0.0	47,47,0	1.82e-06	1.33e-04	1.45e-04	47,47,47			1.00	0.08	0.92
72	0.0	0.03	0.0	0,47,0	1.91e-06	2.97e-06	7.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.06e-04	0.0	0.0	47,0,0	1.82e-06	1.33e-04	9.97e-06	47,47,47			1.00	0.08	0.92
73	0.0	0.11	0.0	0,47,0	2.82e-06	0.0	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.11e-06	0.0	0,47,0	0.0	2.51e-06	3.95e-06	47,47,47			0.0	0.0	0.0
75	0.0	0.11	0.0	0,47,0	2.82e-06	0.0	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.11e-06	0.0	0,47,0	0.0	2.51e-06	3.95e-06	47,47,47			0.0	0.0	0.0
81	0.0	0.03	0.0	0,47,0	1.69e-06	1.50e-06	7.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-04	0.0	0.0	47,0,0	1.60e-06	1.22e-04	3.37e-06	47,47,47			1.00	0.08	0.92
88	0.0	0.06	0.0	0,47,0	1.12e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	7.59e-05	0.0	0,47,0	0.0	1.27e-06	2.27e-05	47,47,47			0.0	0.0	0.0
90	0.0	0.03	0.0	0,47,0	1.89e-06	1.50e-06	8.02e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.17e-04	0.0	0.0	47,0,0	1.80e-06	1.40e-04	2.63e-06	47,47,47			1.00	0.08	0.92
96	0.0	0.06	0.0	0,47,0	1.12e-06	0.0	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.99e-04	0.0	0,47,0	0.0	1.27e-06	5.72e-05	47,47,47			0.0	0.0	0.0
99	0.0	0.03	0.0	0,47,0	2.12e-06	0.0	8.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.59e-04	0.0	0.0	47,0,0	2.03e-06	1.89e-04	2.67e-06	47,47,47			1.00	0.08	0.92
103	0.0	0.07	0.0	0,47,0	0.0	1.80e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.99e-04	0.0	0,47,0	0.0	1.08e-06	5.72e-05	47,47,47			0.0	0.0	0.0
105	0.0	0.03	0.0	0,47,0	2.34e-06	0.0	8.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.75e-04	0.0	0.0	47,0,0	2.24e-06	3.26e-04	3.37e-06	47,47,47			1.00	0.08	0.92
110	0.0	0.07	0.0	0,47,0	0.0	1.80e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.01e-04	0.0	0,47,0	0.0	1.08e-06	2.95e-05	47,47,47			0.0	0.0	0.0
112	0.0	0.03	0.0	0,47,0	2.34e-06	2.32e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.98e-04	0.0	0.0	47,0,0	2.24e-06	8.25e-04	3.65e-06	47,47,47			1.00	0.08	0.92
118	0.0	0.03	0.0	0,47,0	4.24e-06	2.32e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	6.98e-04	4.78e-06	0.0	47,47,0	4.22e-06	8.25e-04	5.84e-06	47,47,47			1.00	0.08	0.92
124	0.0	0.03	0.0	0,47,0	2.12e-06	5.61e-05	8.31e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



142	0.0	5.65e-04	0.0	0,47,0	2.05e-06	1.85e-05	1.78e-04	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	0.02	0.0	0,47,0	4.24e-06	0.0	4.68e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.78e-06	0.0	0,47,0	4.22e-06	4.62e-06	5.84e-06	47,47,47	0.0	0	0.0	0.0	0.0
168	0.0	0.03	0.0	0,47,0	2.12e-06	5.61e-05	8.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.65e-04	0.0	0,47,0	2.05e-06	1.85e-05	1.78e-04	47,47,47	0.0	0	0.0	0.0	0.0
493	0.0	0.01	0.0	0,47,0	0.0	1.81e-05	3.71e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.75e-04	0.0	0,47,0	0.0	4.19e-05	1.45e-04	47,47,47	0.0	0	0.0	0.0	0.0
517	0.0	0.03	0.0	0,47,0	2.82e-05	1.28e-06	8.33e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.46e-04	0.0	0,47,0	2.81e-05	0.0	2.40e-04	47,47,47	0.0	0	0.0	0.0	0.0
528	0.0	0.03	0.0	0,47,0	2.82e-05	1.28e-06	8.33e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	8.46e-04	0.0	0,47,0	2.81e-05	0.0	2.40e-04	47,47,47	0.0	0	0.0	0.0	0.0
533	0.0	0.03	0.0	0,47,0	1.93e-06	1.81e-05	7.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.39e-04	3.75e-04	0.0	47,47,0	1.86e-06	4.11e-04	1.45e-04	47,47,47	0.0	0	1.00	0.08	0.92
541	0.0	0.03	0.0	0,47,0	1.93e-06	2.97e-06	7.98e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.39e-04	0.0	0.0	47,0,0	1.86e-06	4.11e-04	9.97e-06	47,47,47	0.0	0	1.00	0.08	0.92
542	0.0	0.11	0.0	0,47,0	2.82e-06	0.0	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-04	5.11e-06	0.0	47,47,0	0.0	1.20e-04	3.95e-06	47,47,47	0.0	0	1.00	0.08	0.92
544	0.0	0.11	0.0	0,47,0	2.82e-06	0.0	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	1.02e-04	5.11e-06	0.0	47,47,0	0.0	1.20e-04	3.95e-06	47,47,47	0.0	0	1.00	0.08	0.92
550	0.0	0.03	0.0	0,47,0	1.69e-06	1.50e-06	7.93e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.30e-04	0.0	0.0	47,0,0	1.60e-06	3.93e-04	6.27e-06	47,47,47	0.0	0	1.00	0.08	0.92
557	0.0	0.06	0.0	0,47,0	2.87e-06	1.29e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.22e-04	0.0	0,47,0	2.17e-06	1.27e-06	6.32e-05	47,47,47	0.0	0	0.0	0.0	0.0
559	0.0	0.03	0.0	0,47,0	1.89e-06	1.50e-06	8.02e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.50e-04	0.0	0.0	47,0,0	1.80e-06	4.13e-04	2.63e-06	47,47,47	0.0	0	1.00	0.08	0.92
565	0.0	0.06	0.0	0,47,0	2.87e-06	1.29e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.69e-04	0.0	0,47,0	2.17e-06	1.27e-06	1.33e-04	47,47,47	0.0	0	0.0	0.0	0.0
568	0.0	0.03	0.0	0,47,0	2.12e-06	0.0	8.17e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.13e-04	0.0	0.0	47,0,0	2.03e-06	4.87e-04	2.67e-06	47,47,47	0.0	0	1.00	0.08	0.92
572	0.0	0.07	0.0	0,47,0	1.76e-06	1.80e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.69e-04	0.0	0,47,0	0.0	1.08e-06	1.33e-04	47,47,47	0.0	0	0.0	0.0	0.0
574	0.0	0.03	0.0	0,47,0	2.34e-06	0.0	8.62e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.40e-04	0.0	0.0	47,0,0	2.24e-06	6.38e-04	3.37e-06	47,47,47	0.0	0	1.00	0.08	0.92
579	0.0	0.07	0.0	0,47,0	1.76e-06	1.80e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.32e-04	0.0	0,47,0	0.0	1.08e-06	6.59e-05	47,47,47	0.0	0	0.0	0.0	0.0
581	0.0	0.03	0.0	0,47,0	2.34e-06	2.32e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.83e-04	0.0	0.0	47,0,0	2.24e-06	9.23e-04	3.65e-06	47,47,47	0.0	0	1.00	0.08	0.92
587	0.0	0.03	0.0	0,47,0	4.24e-06	2.32e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	7.83e-04	4.78e-06	0.0	47,47,0	4.22e-06	9.23e-04	5.84e-06	47,47,47	0.0	0	1.00	0.08	0.92
593	0.0	0.04	0.0	0,47,0	3.30e-06	5.61e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.65e-04	0.0	0,47,0	3.10e-06	1.85e-05	1.78e-04	47,47,47	0.0	0	0.0	0.0	0.0
611	0.0	0.02	0.0	0,47,0	4.24e-06	1.75e-06	6.51e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.82e-04	4.78e-06	0.0	47,47,0	4.22e-06	6.86e-04	5.84e-06	47,47,47	0.0	0	1.00	0.08	0.92
636	0.0	0.04	0.0	0,47,0	3.30e-06	5.61e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.65e-04	0.0	0,47,0	3.10e-06	1.85e-05	1.78e-04	47,47,47	0.0	0	0.0	0.0	0.0
854	0.0	0.01	0.0	0,47,0	0.0	7.70e-06	4.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.95e-05	1.18e-04	0.0	47,47,0	0.0	9.50e-05	5.47e-05	47,47,47	0.0	0	1.00	0.08	0.92
875	0.0	0.03	0.0	0,47,0	3.14e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.54e-04	0.0	0,47,0	3.13e-05	0.0	7.20e-05	47,47,47	0.0	0	0.0	0.0	0.0
886	0.0	0.03	0.0	0,47,0	3.14e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.54e-04	0.0	0,47,0	3.13e-05	0.0	7.20e-05	47,47,47	0.0	0	0.0	0.0	0.0
891	0.0	0.02	0.0	0,47,0	1.93e-06	7.70e-06	7.06e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.85e-04	1.18e-04	0.0	47,47,0	1.86e-06	4.55e-04	5.47e-05	47,47,47	0.0	0	1.00	0.08	0.92
899	0.0	0.02	0.0	0,47,0	1.93e-06	3.36e-06	7.41e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.08e-04	0.0	0.0	47,0,0	1.86e-06	4.82e-04	6.59e-06	47,47,47	0.0	0	1.00	0.08	0.92
900	0.0	0.11	0.0	0,47,0	2.70e-06	0.0	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	1.67e-04	0.0	0.0	47,0,0	0.0	1.97e-04	0.0	47,47,47	0.0	0	1.00	0.08	0.92
902	0.0	0.11	0.0	0,47,0	2.70e-06	0.0	0.04	47,47,47	0.0	0	0.0	0.0	0.0
	1.67e-04	0.0	0.0	47,0,0	0.0	1.97e-04	0.0	47,47,47	0.0	0	1.00	0.08	0.92
908	0.0	0.02	0.0	0,47,0	1.61e-06	2.46e-06	7.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.08e-04	0.0	0.0	47,0,0	1.53e-06	4.82e-04	6.27e-06	47,47,47	0.0	0	1.00	0.08	0.92
915	0.0	0.06	0.0	0,47,0	1.90e-05	1.80e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.65e-04	0.0	0,47,0	1.83e-05	2.02e-06	2.74e-04	47,47,47	0.0	0	0.0	0.0	0.0
917	0.0	0.02	0.0	0,47,0	1.70e-06	0.0	7.63e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.96e-04	0.0	0.0	47,0,0	1.62e-06	4.67e-04	1.76e-06	47,47,47	0.0	0	1.00	0.08	0.92
923	0.0	0.06	0.0	0,47,0	1.90e-05	1.80e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.20e-03	0.0	0,47,0	1.83e-05	2.02e-06	3.39e-04	47,47,47	0.0	0	0.0	0.0	0.0
926	0.0	0.02	0.0	0,47,0	1.70e-06	0.0	7.77e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.20e-04	0.0	0.0	47,0,0	1.62e-06	4.95e-04	0.0	47,47,47	0.0	0	1.00	0.08	0.92
930	0.0	0.07	0.0	0,47,0	1.52e-05	1.79e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.20e-03	0.0	0,47,0	1.45e-05	5.91e-06	3.39e-04	47,47,47	0.0	0	0.0	0.0	0.0
932	0.0	0.03	0.0	0,47,0	1.69e-06	0.0	8.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.40e-04	0.0	0.0	47,0,0	1.60e-06	6.38e-04	1.03e-06	47,47,47	0.0	0	1.00	0.08	0.92
937	0.0	0.07	0.0	0,47,0	1.52e-05	1.79e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.53e-04	0.0	0,47,0	1.45e-05	5.91e-06	2.74e-04	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



939	0.0	0.03	0.0	0,47,0	1.39e-06	1.89e-06	9.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.83e-04	0.0	0.0	47,0,0	1.29e-06	9.23e-04	2.04e-06	47,47,47			1.00	0.08	0.92
945	0.0	0.03	0.0	0,47,0	0.0	2.29e-06	9.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.83e-04	0.0	0.0	47,0,0	0.0	9.23e-04	6.67e-06	47,47,47			1.00	0.08	0.92
951	0.0	0.06	0.0	0,47,0	4.19e-05	4.21e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.47e-04	0.0	0,47,0	4.13e-05	1.16e-06	2.68e-04	47,47,47			0.0	0.0	0.0
969	0.0	0.02	0.0	0,47,0	0.0	2.29e-06	7.11e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.82e-04	0.0	0.0	47,0,0	0.0	6.86e-04	6.67e-06	47,47,47			1.00	0.08	0.92
994	0.0	0.06	0.0	0,47,0	4.19e-05	4.21e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.47e-04	0.0	0,47,0	4.13e-05	1.16e-06	2.68e-04	47,47,47			0.0	0.0	0.0
1265	0.0	0.01	0.0	0,47,0	1.80e-06	7.70e-06	4.04e-03	47,47,47	0.0	0	0.0	0.0	0.0
	7.95e-05	1.70e-05	0.0	47,47,0	1.79e-06	9.50e-05	2.15e-05	47,47,47			1.00	0.08	0.92
1286	0.0	0.03	0.0	0,47,0	9.38e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.20e-03	2.54e-04	0.0	47,47,0	9.38e-05	1.41e-03	7.20e-05	47,47,47			1.00	0.08	0.92
1296	0.0	0.03	0.0	0,47,0	9.38e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	3.37e-03	2.54e-04	0.0	47,47,0	9.38e-05	3.97e-03	7.20e-05	47,47,47			1.00	0.08	0.92
1301	0.0	0.02	0.0	0,47,0	1.80e-06	7.70e-06	6.43e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.85e-04	1.70e-05	0.0	47,47,0	1.79e-06	4.55e-04	2.15e-05	47,47,47			1.00	0.08	0.92
1308	0.0	0.02	0.0	0,47,0	1.63e-06	3.36e-06	6.92e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.08e-04	0.0	0.0	47,0,0	1.58e-06	4.82e-04	8.02e-06	47,47,47			1.00	0.08	0.92
1309	0.0	0.11	0.0	0,47,0	1.26e-05	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	4.31e-03	0.0	0.0	47,0,0	1.26e-05	5.07e-03	1.16e-06	47,47,47			1.00	0.08	0.92
1311	0.0	0.11	0.0	0,47,0	3.25e-05	0.0	0.03	47,47,47	0.0	0	0.0	0.0	0.0
	4.31e-03	0.0	0.0	47,0,0	3.25e-05	5.07e-03	3.28e-06	47,47,47			1.00	0.08	0.92
1317	0.0	0.02	0.0	0,47,0	1.65e-06	2.46e-06	7.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.08e-04	0.0	0.0	47,0,0	1.61e-06	4.82e-04	3.70e-06	47,47,47			1.00	0.08	0.92
1323	0.0	0.06	0.0	0,47,0	4.44e-05	1.80e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.50e-03	9.65e-04	0.0	47,47,0	4.41e-05	2.94e-03	2.74e-04	47,47,47			1.00	0.08	0.92
1325	0.0	0.02	0.0	0,47,0	1.65e-06	0.0	7.10e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.96e-04	0.0	0.0	47,0,0	1.61e-06	4.67e-04	0.0	47,47,47			1.00	0.08	0.92
1330	0.0	0.06	0.0	0,47,0	4.44e-05	1.80e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	8.92e-04	1.20e-03	0.0	47,47,0	4.41e-05	1.05e-03	3.39e-04	47,47,47			1.00	0.08	0.92
1338	0.0	0.02	0.0	0,47,0	1.54e-06	0.0	7.21e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.20e-04	0.0	0.0	47,0,0	1.47e-06	4.95e-04	3.01e-06	47,47,47			1.00	0.08	0.92
1342	0.0	0.07	0.0	0,47,0	3.86e-05	3.18e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.06e-03	1.20e-03	0.0	47,47,0	3.83e-05	1.25e-03	3.39e-04	47,47,47			1.00	0.08	0.92
1347	0.0	0.02	0.0	0,47,0	1.32e-06	0.0	7.48e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.79e-04	0.0	0.0	47,0,0	1.25e-06	5.66e-04	3.01e-06	47,47,47			1.00	0.08	0.92
1351	0.0	0.07	0.0	0,47,0	4.52e-05	3.18e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	2.59e-03	9.53e-04	0.0	47,47,0	4.52e-05	3.06e-03	2.74e-04	47,47,47			1.00	0.08	0.92
1355	0.0	0.02	0.0	0,47,0	0.0	0.0	7.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.64e-04	0.0	0.0	47,0,0	0.0	6.68e-04	1.95e-06	47,47,47			1.00	0.08	0.92
1360	0.0	0.01	0.0	0,47,0	1.29e-04	3.18e-06	3.99e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.59e-03	0.0	0.0	47,0,0	1.29e-04	3.06e-03	1.11e-05	47,47,47			1.00	0.08	0.92
1363	0.0	0.02	0.0	0,47,0	0.0	7.39e-06	7.80e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.64e-04	0.0	0.0	47,0,0	0.0	6.68e-04	6.67e-06	47,47,47			1.00	0.08	0.92
1368	0.0	0.06	0.0	0,47,0	1.72e-04	1.90e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	9.47e-04	0.0	47,47,0	1.72e-04	1.46e-03	2.68e-04	47,47,47			1.00	0.08	0.92
1383	0.0	0.02	0.0	0,47,0	0.0	7.39e-06	7.14e-03	47,47,47	0.0	0	0.0	0.0	0.0
	5.31e-04	0.0	0.0	47,0,0	0.0	6.29e-04	6.67e-06	47,47,47			1.00	0.08	0.92
1415	0.0	0.06	0.0	0,47,0	1.72e-04	1.90e-05	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	9.47e-04	0.0	0,47,0	1.72e-04	6.10e-06	2.68e-04	47,47,47			0.0	0.0	0.0
1748	0.0	0.01	0.0	0,47,0	8.58e-06	7.76e-06	3.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.23e-05	2.53e-04	0.0	47,47,0	8.55e-06	4.78e-05	1.14e-04	47,47,47			1.00	0.08	0.92
1777	0.0	0.03	0.0	0,47,0	2.25e-04	3.93e-06	8.07e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.20e-03	0.0	0.0	47,0,0	2.25e-04	1.41e-03	4.62e-06	47,47,47			1.00	0.08	0.92
1788	0.0	0.03	0.0	0,47,0	2.25e-04	3.93e-06	8.07e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.37e-03	1.14e-03	0.0	47,47,0	2.25e-04	3.97e-03	3.30e-04	47,47,47			1.00	0.08	0.92
1798	0.0	0.02	0.0	0,47,0	8.58e-06	7.76e-06	6.12e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.21e-04	4.48e-04	0.0	47,47,0	8.55e-06	2.67e-04	1.45e-04	47,47,47			1.00	0.08	0.92
1811	0.0	0.02	0.0	0,47,0	1.63e-06	6.44e-06	6.44e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.21e-04	4.48e-04	0.0	47,47,0	1.58e-06	2.67e-04	1.45e-04	47,47,47			1.00	0.08	0.92
1812	0.0	0.06	0.0	0,47,0	1.26e-05	5.18e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.31e-03	1.44e-03	0.0	47,47,0	1.26e-05	5.07e-03	4.08e-04	47,47,47			1.00	0.08	0.92
1815	0.0	0.06	0.0	0,47,0	3.25e-05	5.18e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	4.31e-03	1.44e-03	0.0	47,47,0	3.25e-05	5.07e-03	4.08e-04	47,47,47			1.00	0.08	0.92
1826	0.0	0.02	0.0	0,47,0	1.65e-06	6.44e-06	6.50e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.18e-04	2.49e-04	0.0	47,47,0	1.61e-06	2.59e-04	7.11e-05	47,47,47			1.00	0.08	0.92
1835	0.0	0.05	0.0	0,47,0	5.12e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.50e-03	1.14e-03	0.0	47,47,0	5.11e-05	2.94e-03	3.28e-04	47,47,47			1.00	0.08	0.92
1840	0.0	0.02	0.0	0,47,0	1.65e-06	5.24e-06	6.54e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.68e-04	7.60e-05	0.0	47,47,0	1.61e-06	3.19e-04	3.20e-05	47,47,47			1.00	0.08	0.92
1846	0.0	0.05	0.0	0,47,0	5.12e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.53e-04	6.03e-05	0.0	47,47,0	5.11e-05	1.12e-03	2.24e-05	47,47,47			1.00	0.08	0.92
1854	0.0	0.02	0.0	0,47,0	1.49e-06	5.24e-06	6.62e-03	47,47,47	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	3.10e-04	0.0	0.0	47,0,0	1.44e-06	3.66e-04	1.12e-05	47,47,47			1.00	0.08	0.92
1859	0.0	0.05	0.0	0,47,0	4.38e-05	3.18e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.06e-03	0.0	0.0	47,0,0	4.37e-05	1.25e-03	1.69e-06	47,47,47			1.00	0.08	0.92
1864	0.0	0.02	0.0	0,47,0	1.19e-06	2.79e-06	6.78e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.95e-04	0.0	0.0	47,0,0	1.12e-06	4.68e-04	7.62e-06	47,47,47			1.00	0.08	0.92
1869	0.0	0.05	0.0	0,47,0	4.52e-05	4.17e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	2.59e-03	4.91e-04	0.0	47,47,0	4.52e-05	3.06e-03	1.40e-04	47,47,47			1.00	0.08	0.92
1873	0.0	0.02	0.0	0,47,0	0.0	3.75e-06	6.94e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.37e-04	0.0	0.0	47,0,0	0.0	5.18e-04	3.84e-06	47,47,47			1.00	0.08	0.92
1879	0.0	0.02	0.0	0,47,0	1.44e-04	4.17e-06	7.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.59e-03	1.08e-03	0.0	47,47,0	1.44e-04	3.06e-03	3.25e-04	47,47,47			1.00	0.08	0.92
1882	0.0	0.02	0.0	0,47,0	0.0	7.39e-06	7.14e-03	47,47,47	0.0	0	0.0	0.0	0.0
	4.37e-04	2.95e-04	0.0	47,47,0	0.0	5.18e-04	8.48e-05	47,47,47			1.00	0.08	0.92
1888	0.0	0.04	0.0	0,47,0	3.80e-04	2.23e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	1.24e-03	1.08e-03	0.0	47,47,0	3.79e-04	1.46e-03	3.25e-04	47,47,47			1.00	0.08	0.92
1906	0.0	0.02	0.0	0,47,0	0.0	7.39e-06	7.14e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.64e-04	2.95e-04	0.0	47,47,0	0.0	4.30e-04	8.48e-05	47,47,47			1.00	0.08	0.92
1938	0.0	0.04	0.0	0,47,0	3.80e-04	2.23e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	5.22e-04	0.0	0,47,0	3.79e-04	2.04e-05	1.53e-04	47,47,47			0.0	0.0	0.0
2359	0.0	0.01	0.0	0,47,0	8.58e-06	7.76e-06	3.57e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.53e-04	0.0	0,47,0	8.55e-06	4.44e-05	1.14e-04	47,47,47			0.0	0.0	0.0
2383	0.0	0.02	0.0	0,47,0	2.25e-04	3.93e-06	5.65e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.65e-04	0.0	0.0	47,0,0	2.25e-04	1.96e-04	4.62e-06	47,47,47			1.00	0.08	0.92
2463	0.0	0.02	0.0	0,47,0	2.25e-04	3.93e-06	7.31e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.65e-04	1.14e-03	0.0	47,47,0	2.25e-04	1.96e-04	3.30e-04	47,47,47			1.00	0.08	0.92
2470	0.0	0.02	0.0	0,47,0	8.58e-06	7.76e-06	5.75e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.48e-04	0.0	0,47,0	8.55e-06	4.44e-05	1.45e-04	47,47,47			0.0	0.0	0.0
2493	0.0	0.02	0.0	0,47,0	1.33e-06	6.44e-06	6.03e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	4.48e-04	0.0	0,47,0	1.29e-06	1.95e-05	1.45e-04	47,47,47			0.0	0.0	0.0
2494	0.0	0.05	0.0	0,47,0	1.09e-05	5.18e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.44e-03	0.0	0,47,0	1.09e-05	9.21e-06	4.08e-04	47,47,47			0.0	0.0	0.0
2500	0.0	0.05	0.0	0,47,0	2.72e-05	5.18e-06	0.02	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.44e-03	0.0	0,47,0	2.72e-05	7.03e-06	4.08e-04	47,47,47			0.0	0.0	0.0
2558	0.0	0.02	0.0	0,47,0	1.33e-06	6.44e-06	6.06e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.49e-04	0.0	0,47,0	1.29e-06	1.32e-05	7.11e-05	47,47,47			0.0	0.0	0.0
2573	0.0	0.03	0.0	0,47,0	5.12e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.14e-03	0.0	0,47,0	5.11e-05	7.03e-06	3.28e-04	47,47,47			0.0	0.0	0.0
2575	0.0	0.02	0.0	0,47,0	1.29e-06	5.24e-06	6.08e-03	47,47,47	0.0	0	0.0	0.0	0.0
	1.89e-04	7.60e-05	0.0	47,47,0	1.26e-06	2.36e-04	3.20e-05	47,47,47			1.00	0.08	0.92
2589	0.0	0.03	0.0	0,47,0	5.12e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.53e-04	6.03e-05	0.0	47,47,0	5.11e-05	1.12e-03	2.24e-05	47,47,47			1.00	0.08	0.92
2597	0.0	0.02	0.0	0,47,0	1.18e-06	5.24e-06	6.11e-03	47,47,47	0.0	0	0.0	0.0	0.0
	2.78e-04	0.0	0.0	47,0,0	1.12e-06	3.31e-04	1.12e-05	47,47,47			1.00	0.08	0.92
2610	0.0	0.04	0.0	0,47,0	4.38e-05	0.0	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.53e-04	0.0	0.0	47,0,0	4.37e-05	1.12e-03	1.50e-06	47,47,47			1.00	0.08	0.92
2615	0.0	0.02	0.0	0,47,0	0.0	2.79e-06	6.16e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.95e-04	0.0	0.0	47,0,0	0.0	4.68e-04	7.62e-06	47,47,47			1.00	0.08	0.92
2624	0.0	0.04	0.0	0,47,0	4.38e-05	4.17e-06	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	9.19e-04	4.91e-04	0.0	47,47,0	4.37e-05	1.09e-03	1.40e-04	47,47,47			1.00	0.08	0.92
2632	0.0	0.02	0.0	0,47,0	0.0	3.75e-06	6.16e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.95e-04	0.0	0.0	47,0,0	0.0	4.68e-04	3.84e-06	47,47,47			1.00	0.08	0.92
2646	0.0	0.02	0.0	0,47,0	1.44e-04	4.17e-06	7.70e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-03	0.0	0,47,0	1.44e-04	2.19e-05	3.25e-04	47,47,47			0.0	0.0	0.0
2649	0.0	0.02	0.0	0,47,0	0.0	3.75e-06	6.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	3.65e-04	2.95e-04	0.0	47,47,0	0.0	4.33e-04	8.48e-05	47,47,47			1.00	0.08	0.92
2663	0.0	0.03	0.0	0,47,0	3.80e-04	2.23e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	1.08e-03	0.0	0,47,0	3.79e-04	2.19e-05	3.25e-04	47,47,47			0.0	0.0	0.0
2681	0.0	0.02	0.0	0,47,0	0.0	1.60e-06	6.42e-03	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	2.95e-04	0.0	0,47,0	0.0	1.61e-06	8.48e-05	47,47,47			0.0	0.0	0.0
2713	0.0	0.03	0.0	0,47,0	3.80e-04	2.23e-05	0.01	47,47,47	0.0	0	0.0	0.0	0.0
	0.0	3.70e-04	0.0	0,47,0	3.79e-04	2.04e-05	1.23e-04	47,47,47			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	4.31e-03	0.11	0.0		3.80e-04	5.07e-03	0.04		0.0				

VERIFICHE S.L. ELEMENTI IN LEGNO

LEGENDA TABELLA VERIFICHE S.L. ELEMENTI IN LEGNO

Il programma consente la verifica dei seguenti tipi di elementi:

1. Aste 2. Travi 3. Pilastri

L'esito delle verifiche è espresso con un codice come di seguito indicato:

ok: verifica con esito positivo

NV: verifica con esito negativo

Le verifiche sono condotte in ottemperanza alle NTC 17 Gennaio 2018, oppure seguendo le indicazioni analitiche riportate nella norma tecnica UNI EN 1995-1-1:2005 "Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici" ; in particolare le verifiche effettuate sono riconducibili ai punti:

NTC 2018

- 4.4.8 Stati limite ultimi
- 4.4.8.1.7 Tensoflessione
- 4.4.8.1.8 Pressoflessione
- 4.4.8.1.11 Taglio e torsione
- 4.4.8.2.1 Elementi inflessi
- 4.4.8.2.2 Elementi compressi

EC5

- 2.2.2 Ultimate limit states
- 2.2.3 Serviceability limit states
- 2.4.1 Design value of material property
- 2.4.3 Design resistances
- 3.1.3 Strength modification (k_{mod})
- 3.1.4 Deformation modification (k_{def})
- 6. Ultimate limit states
- 6.2 Design of cross-sections subjected to combined stresses
- 6.3 Stability of members

Simbologia adottata nelle tabelle di verifica

Le verifiche effettuate ai sensi delle NTC 2018 sono dettagliatamente riportate come da tabella seguente:

Elem.	Numero dell'elemento
Tipo	Codice di individuazione del tipo di elemento: Trave (T), Pilastro (P), Asta (A)
Stato	Codice della verifica: ok verificato, NV non verificato
Note	Numero della sezione (s) e del materiale (m) dell'archivio
Ver N+/M	Verifica come da formule 4.4.6a e 4.4.6b per tensoflessione, con i valori di k_m definiti nel par. 4.4.8.1.6
Ver N-/M	Verifica come da formule 4.4.7a e 4.4.7b per pressoflessione, con i valori di k_m definiti nel par. 4.4.8.1.6
Ver V/T	Verifica come da formula 4.4.10 (taglio torsione) con interazione ottenuta per quadratura del termine di taglio
Ver N(s)	Verifica instabilità a compressione come da par. 4.4.8.2.2
Kcy(z)	Fattore di instabilità $K_{crit,c}$ utilizzato nella formula 4.4.13, in funzione della snellezza relativa
Ver M(s)	Verifica instabilità laterale come da par. 4.4.8.2.1, effettuata in entrambi i piani principali y e z
Kcrit (y)/(z)	Fattore di instabilità laterale utilizzato nella formula 4.4.11 rispettivamente per la flessione y e z
w _{net} R	Massima deformazione in combinazione rara (F frequente, P quasi permanente)



w,net Ri	Massima deformazione in combinazione rara (F frequente, P quasi permanente) valutata a tempo infinito
kdef	Fattore di deformazione dell' elemento
Rif. cmb	Numero della combinazione in cui si è attinto il valore riportato per le verifiche

Le verifiche effettuate ai sensi dell'EC5 sono dettagliatamente riportate come da tabella seguente:

Elem.	Numero dell'elemento
Tipo	Codice di individuazione del tipo di elemento: Trave (T), Pilastro (P), Asta (A)
Stato	Codice della verifica ok verificato, NV non verificato
Note	Numero della sezione (s) e del materiale (m) dell'archivio
Ver N+/M	Verifica come da formula 6.17 e 6.18 per tensoflessione
Ver N-/M	Verifica come da formula 6.19 e 6.20 per pressoflessione
Ver V/T	Verifica come da formula 6.13 e 6.14 (taglio torsione) con interazione ottenuta per quadratura del termine di taglio
Ver N(s)	Verifica come da formula 6.23 e 6.24 per pressoflessione di elementi con snellezza relativa in un piano maggiore di 0.3
Kcy (z)	Fattore di instabilità utilizzato nella formula 6.23 (6.24)
Ver M(s)	Verifica come da formula 6.35 (effettuata in entrambi i piani principali) per instabilità laterale
Kcrit (y) (z)	Fattore di instabilità laterale utilizzato nella formula 6.35 rispettivamente per la flessione y e z
w,net R	Massima deformazione in combinazione rara (F frequente, P quasi permanente)
w,net Ri	Massima deformazione in combinazione rara (F frequente, P quasi permanente) valutata a tempo infinito
kdef	Fattore di deformazione dell' elemento
Rif. cmb	Numero della combinazione in cui si è attinto il valore riportato per le verifiche

Si sottolinea che le cinque verifiche sono espresse dal rapporto tra domanda e capacità, affinché la verifica sia positiva il rapporto deve essere inferiore o uguale a 1. La capacità è affetta dal termine **kmod**, espressione della classe di servizio e della durata dei carichi (si considera a livello di combinazione il caso di carico di minor durata). Le deformazioni dell' elemento espresse in rapporto ad un millesimo di lunghezza sono rappresentate dal valore istantaneo e dal valore a tempo infinito. Il valore della deformazione a tempo infinito per una combinazione di carichi è ottenuta sommando per ogni caso di carico sia il valore istantaneo che il valore ottenuto dall' aliquota quasi-permanente amplificata del fattore kdef (formula 2.2 e 2.3).

In termini analitici il contributo del caso di carico con coefficiente di combinazione **Psi** (diverso da 0) è:

$$Psi + kdef \times Psi2$$

Elem.	Note	Pos.	Ver N+/M	Ver N-/M	Ver V/T	Rif. cmb	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)	Rif. cmb
4	ok P,s=1,m=129	0.0		1.81e-02	3.52e-04	0,2,18	4.40e-02	0.9	0.3				2,0
		32.5		1.47e-02	3.52e-04	0,2,18	4.13e-02	0.9	0.3				2,0
5	ok P,s=1,m=129	0.0		1.69e-02	1.44e-03	0,2,2	2.32e-02	1.0	0.5				2,0
		45.0		1.39e-02	1.44e-03	0,2,2	2.11e-02	1.0	0.5				2,0
6	ok P,s=1,m=129	0.0		1.40e-02	7.00e-04	0,2,2	1.95e-02	1.0	0.5				2,0
		45.0		7.93e-03	7.00e-04	0,28,2	1.50e-02	1.0	0.5				28,0
7	ok P,s=1,m=129	0.0		1.74e-02	7.70e-04	0,2,2	2.43e-02	1.0	0.5				2,0
		45.0		8.98e-03	7.70e-04	0,28,2	1.81e-02	1.0	0.5				28,0
8	ok P,s=1,m=129	0.0		1.04e-02	3.96e-04	0,2,2	1.44e-02	1.0	0.5				2,0
		45.0		8.43e-03	3.96e-04	0,2,2	1.28e-02	1.0	0.5				2,0
9	ok P,s=1,m=129	0.0		3.19e-02	1.35e-03	0,2,2	4.38e-02	1.0	0.5				2,0
		45.0		2.61e-02	1.35e-03	0,2,2	4.00e-02	1.0	0.5				2,0
10	ok P,s=1,m=129	0.0		1.74e-02	8.32e-04	0,2,2	2.40e-02	1.0	0.5				2,0
		45.0		1.45e-02	8.32e-04	0,2,2	2.19e-02	1.0	0.5				2,0
11	ok P,s=1,m=129	0.0		1.40e-02	1.93e-04	0,2,2	1.94e-02	1.0	0.5				2,0
		45.0		9.38e-03	1.93e-04	0,2,2	1.59e-02	1.0	0.5				2,0
12	ok P,s=1,m=129	0.0		1.24e-02	1.18e-04	0,2,18	1.72e-02	1.0	0.5				2,0
		45.0		9.81e-03	1.18e-04	0,2,18	1.51e-02	1.0	0.5				2,0
13	ok P,s=1,m=129	0.0		1.47e-02	3.03e-04	0,2,2	3.57e-02	0.9	0.3				2,0



14 ok P,s=1,m=129	45.0	1.03e-02	3.03e-04	0,2,2	3.23e-02	0.9	0.3	2,0
	0.0	3.30e-02	1.02e-03	0,2,2	8.00e-02	0.9	0.3	2,0
	45.0	2.52e-02	1.02e-03	0,2,2	7.42e-02	0.9	0.3	2,0
15 ok P,s=1,m=129	0.0	3.59e-02	1.31e-03	0,2,2	8.68e-02	0.9	0.3	2,0
	45.0	2.74e-02	1.31e-03	0,2,2	8.06e-02	0.9	0.3	2,0
16 ok P,s=1,m=129	0.0	1.48e-02	2.68e-04	0,2,2	3.62e-02	0.9	0.3	2,0
	45.0	1.05e-02	2.68e-04	0,2,2	3.27e-02	0.9	0.3	2,0
17 ok P,s=1,m=129	0.0	1.53e-02	4.85e-04	0,2,38	4.51e-02	0.9	0.3	2,0
	97.5	7.38e-03	4.85e-04	0,2,38	3.86e-02	0.9	0.3	2,0
18 ok P,s=1,m=129	0.0	1.83e-02	1.45e-03	0,2,38	7.04e-02	0.9	0.3	2,0
	97.5	4.59e-03	1.45e-03	0,38,38	5.95e-02	0.9	0.3	2,0
19 ok P,s=1,m=129	0.0	1.78e-02	1.39e-03	0,2,38	6.87e-02	0.9	0.3	2,0
	97.5	4.51e-03	1.39e-03	0,38,38	5.82e-02	0.9	0.3	2,0
20 ok P,s=1,m=129	0.0	1.49e-02	4.12e-04	0,2,38	4.41e-02	0.9	0.3	2,0
	97.5	7.09e-03	4.12e-04	0,2,38	3.77e-02	0.9	0.3	2,0
21 ok P,s=1,m=129	0.0	1.44e-02	1.07e-03	0,2,2	2.26e-02	1.0	0.5	2,0
	85.0	1.06e-02	1.07e-03	0,2,2	1.98e-02	1.0	0.5	2,0
22 ok P,s=1,m=129	0.0	6.01e-03	4.40e-04	0,2,2	1.48e-02	1.0	0.5	2,0
	85.0	2.41e-03	4.40e-04	0,28,2	1.16e-02	1.0	0.5	2,0
23 ok P,s=1,m=129	0.0	7.52e-03	3.43e-04	0,2,2	1.92e-02	1.0	0.5	2,0
	85.0	1.81e-03	3.43e-04	0,34,2	1.45e-02	1.0	0.5	2,0
24 ok P,s=1,m=129	0.0	8.40e-03	3.80e-04	0,2,28	1.36e-02	1.0	0.5	2,0
	85.0	5.98e-03	3.80e-04	0,2,28	1.15e-02	1.0	0.5	2,0
25 ok P,s=1,m=129	0.0	2.74e-02	8.53e-04	0,2,2	4.37e-02	1.0	0.5	2,0
	85.0	1.90e-02	8.53e-04	0,2,2	3.77e-02	1.0	0.5	2,0
26 ok P,s=1,m=129	0.0	1.49e-02	4.16e-04	0,2,28	2.36e-02	1.0	0.5	2,0
	85.0	1.11e-02	4.16e-04	0,2,28	2.06e-02	1.0	0.5	2,0
27 ok P,s=1,m=129	0.0	7.84e-03	1.07e-04	0,2,2	1.56e-02	1.0	0.5	2,0
	85.0	4.92e-03	1.07e-04	0,28,2	1.29e-02	1.0	0.5	2,0
28 ok P,s=1,m=129	0.0	9.92e-03	8.27e-05	0,2,44	1.64e-02	1.0	0.5	2,0
	85.0	6.80e-03	8.27e-05	0,2,44	1.38e-02	1.0	0.5	2,0
29 ok P,s=1,m=129	0.0	1.03e-02	2.62e-04	0,2,2	3.52e-02	0.9	0.3	2,0
	85.0	4.31e-03	2.62e-04	0,2,2	3.01e-02	0.9	0.3	2,0
30 ok P,s=1,m=129	0.0	1.49e-02	4.58e-04	0,2,38	5.51e-02	0.9	0.3	2,0
	85.0	1.47e-02	4.58e-04	0,38,38	5.41e-02	0.9	0.3	2,0
31 ok P,s=1,m=129	0.0	1.65e-02	4.40e-04	0,2,38	6.05e-02	0.9	0.3	2,0
	85.0	1.50e-02	4.40e-04	0,38,38	5.84e-02	0.9	0.3	2,0
32 ok P,s=1,m=129	0.0	1.05e-02	2.40e-04	0,2,2	3.56e-02	0.9	0.3	2,0
	85.0	4.42e-03	2.40e-04	0,2,2	3.06e-02	0.9	0.3	2,0
33 ok P,s=1,m=129	0.0	4.02e-02	6.27e-04	0,2,8	5.47e-02	1.0	0.5	2,0
	215.0	2.47e-02	6.27e-04	0,2,8	4.36e-02	1.0	0.5	2,0
34 ok P,s=1,m=129	0.0	5.14e-02	2.41e-04	0,2,12	0.1	0.9	0.3	2,0
	217.5	3.28e-02	2.41e-04	0,38,12	0.1	0.9	0.3	2,0
35 ok P,s=1,m=129	0.0	1.13e-02	2.77e-04	0,2,18	2.28e-02	1.0	0.5	2,0
	85.0	7.51e-03	2.77e-04	0,2,18	1.93e-02	1.0	0.5	2,0
36 ok P,s=1,m=129	0.0	1.45e-03	6.82e-05	0,38,18	1.36e-02	1.0	0.5	2,0
	85.0	1.48e-03	6.82e-05	0,34,18	1.30e-02	1.0	0.5	2,0
37 ok P,s=1,m=129	0.0	1.57e-03	9.31e-05	0,38,2	1.86e-02	1.0	0.5	2,0
	85.0	1.15e-03	9.31e-05	0,44,2	1.75e-02	1.0	0.5	2,0
38 ok P,s=1,m=129	0.0	6.17e-03	1.58e-04	0,2,38	1.34e-02	1.0	0.5	2,0
	85.0	4.81e-03	1.58e-04	0,2,38	1.22e-02	1.0	0.5	2,0
39 ok P,s=1,m=129	0.0	2.12e-02	4.72e-04	0,2,18	4.54e-02	1.0	0.5	2,0
	85.0	1.41e-02	4.72e-04	0,28,18	3.93e-02	1.0	0.5	2,0
40 ok P,s=1,m=129	0.0	1.20e-02	9.09e-04	0,2,2	2.44e-02	1.0	0.5	2,0
	85.0	8.71e-03	9.09e-04	0,2,2	2.16e-02	1.0	0.5	2,0
41 ok P,s=1,m=129	0.0	4.33e-03	1.09e-04	0,2,2	1.54e-02	1.0	0.5	2,0
	85.0	2.40e-03	1.09e-04	0,34,2	1.29e-02	1.0	0.5	2,0
42 ok P,s=1,m=129	0.0	7.38e-03	1.20e-04	0,2,28	1.69e-02	1.0	0.5	2,0
	85.0	5.52e-03	1.20e-04	0,2,28	1.51e-02	1.0	0.5	2,0
43 ok P,s=1,m=129	0.0	4.85e-03	1.42e-04	0,2,2	3.78e-02	0.9	0.3	2,0
	85.0	5.27e-04	1.42e-04	0,23,2	3.38e-02	0.9	0.3	2,0
44 ok P,s=1,m=129	0.0	7.78e-03	2.73e-04	0,2,18	4.76e-02	0.9	0.3	2,0
	85.0	9.44e-03	2.73e-04	0,38,18	4.69e-02	0.9	0.3	2,0
45 ok P,s=1,m=129	0.0	7.64e-03	5.79e-04	0,2,38	4.57e-02	0.9	0.3	2,0
	85.0	2.32e-03	5.79e-04	0,28,38	4.10e-02	0.9	0.3	2,0
46 ok P,s=1,m=129	0.0	7.94e-03	4.12e-04	0,2,8	5.22e-02	0.9	0.3	2,0
	85.0	9.15e-03	4.12e-04	0,38,8	5.14e-02	0.9	0.3	2,0
47 ok P,s=1,m=129	0.0	4.94e-03	1.43e-04	0,2,2	3.82e-02	0.9	0.3	2,0
	85.0	4.31e-04	1.43e-04	0,11,2	3.40e-02	0.9	0.3	2,0
48 ok P,s=1,m=129	0.0	8.00e-03	5.50e-04	0,2,18	4.66e-02	0.9	0.3	2,0
	85.8	2.38e-03	5.50e-04	0,38,18	4.18e-02	0.9	0.3	2,0
49 ok P,s=1,m=129	0.0	3.41e-03	8.50e-04	0,2,38	6.75e-02	0.9	0.3	2,0
	87.5	4.32e-03	8.50e-04	0,38,38	6.82e-02	0.9	0.3	2,0
50 ok P,s=1,m=129	0.0	3.27e-03	8.99e-04	0,2,38	6.61e-02	0.9	0.3	2,0
	87.5	4.22e-03	8.99e-04	0,8,38	6.68e-02	0.9	0.3	2,0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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51 ok P,s=1,m=129	0.0	8.20e-03	1.15e-03	0,2,2	2.24e-02	1.0	0.5						2.0
	90.0	6.84e-03	1.15e-03	0,2,2	2.10e-02	1.0	0.5						2.0
52 ok P,s=1,m=129	0.0	5.36e-04	2.92e-04	0,38,2	1.45e-02	1.0	0.5						2.0
	90.0	2.69e-03	2.92e-04	0,28,2	1.55e-02	1.0	0.5						2.0
53 ok P,s=1,m=129	0.0	6.57e-04	8.65e-05	0,44,38	2.06e-02	1.0	0.5						2.0
	90.0	2.21e-03	8.65e-05	0,2,38	2.16e-02	1.0	0.5						2.0
54 ok P,s=1,m=129	0.0	5.00e-03	1.99e-04	0,2,2	1.46e-02	1.0	0.5						2.0
	90.0	4.29e-03	1.99e-04	0,2,2	1.35e-02	1.0	0.5						2.0
55 ok P,s=1,m=129	0.0	6.28e-03	1.03e-03	0,28,28	3.36e-02	1.0	0.5						2.0
	90.0	7.74e-03	1.03e-03	0,2,28	3.49e-02	1.0	0.5						2.0
56 ok P,s=1,m=129	0.0	9.81e-03	7.46e-04	0,2,38	2.34e-02	1.0	0.5						2.0
	90.0	3.35e-03	7.46e-04	0,2,38	1.84e-02	1.0	0.5						2.0
57 ok P,s=1,m=129	0.0	9.41e-03	5.73e-04	0,2,2	2.55e-02	1.0	0.5						2.0
	90.0	8.20e-03	5.73e-04	0,2,2	2.44e-02	1.0	0.5						2.0
58 ok P,s=1,m=129	0.0	1.81e-03	5.24e-05	0,34,34	1.58e-02	1.0	0.5						2.0
	90.0	3.87e-03	5.24e-05	0,2,34	1.72e-02	1.0	0.5						2.0
59 ok P,s=1,m=129	0.0	6.51e-03	6.97e-05	0,2,18	1.93e-02	1.0	0.5						2.0
	90.0	6.87e-03	6.97e-05	0,2,18	1.91e-02	1.0	0.5						2.0
60 ok P,s=1,m=129	0.0	1.09e-03	1.40e-04	0,38,2	4.34e-02	0.9	0.3						2.0
	90.0	3.72e-03	1.40e-04	0,18,2	4.44e-02	0.9	0.3						2.0
61 ok P,s=1,m=129	0.0	4.66e-03	5.71e-04	0,38,38	4.72e-02	0.9	0.3						2.0
	90.0	4.21e-03	5.71e-04	0,38,38	4.65e-02	0.9	0.3						2.0
62 ok P,s=1,m=129	0.0	2.75e-03	2.03e-04	0,28,8	4.98e-02	0.9	0.3						2.0
	90.0	2.80e-03	2.03e-04	0,8,8	4.88e-02	0.9	0.3						2.0
63 ok P,s=1,m=129	0.0	4.20e-03	7.16e-04	0,38,38	5.03e-02	0.9	0.3						2.0
	90.0	4.28e-03	7.16e-04	0,38,38	4.99e-02	0.9	0.3						2.0
64 ok P,s=1,m=129	0.0	1.06e-03	1.31e-04	0,38,2	4.38e-02	0.9	0.3						2.0
	90.0	3.63e-03	1.31e-04	0,8,2	4.47e-02	0.9	0.3						2.0
65 ok P,s=1,m=129	0.0	2.87e-03	2.87e-04	0,2,38	5.04e-02	0.9	0.3						2.0
	89.2	2.73e-03	2.87e-04	0,18,38	4.93e-02	0.9	0.3						2.0
66 ok P,s=1,m=129	0.0	3.03e-03	2.77e-04	0,18,24	6.63e-02	0.9	0.3						2.0
	87.5	3.10e-03	2.77e-04	0,40,24	6.47e-02	0.9	0.3						2.0
67 ok P,s=1,m=129	0.0	1.55e-02	4.83e-05	0,38,28	6.61e-02	0.9	0.3						2.0
	87.5	7.52e-03	4.83e-05	0,44,28	5.81e-02	0.9	0.3						2.0
68 ok P,s=1,m=129	0.0	2.96e-03	2.88e-04	0,8,12	6.51e-02	0.9	0.3						2.0
	87.5	3.07e-03	2.88e-04	0,40,12	6.36e-02	0.9	0.3						2.0
69 ok P,s=1,m=129	0.0	7.63e-03	6.03e-04	0,2,2	2.50e-02	1.0	0.5						2.0
	75.0	1.61e-02	6.03e-04	0,2,2	3.07e-02	1.0	0.5						2.0
70 ok P,s=1,m=129	0.0	3.41e-03	4.47e-04	0,2,2	1.88e-02	1.0	0.5						2.0
	75.0	1.42e-02	4.47e-04	0,2,2	2.59e-02	1.0	0.5						2.0
71 ok P,s=1,m=129	0.0	3.96e-03	1.20e-04	0,2,2	2.72e-02	1.0	0.5						2.0
	75.0	2.02e-02	1.20e-04	0,2,2	3.84e-02	1.0	0.5						2.0
72 ok P,s=1,m=129	0.0	5.50e-03	2.17e-04	0,2,28	1.81e-02	1.0	0.5						2.0
	75.0	9.46e-03	2.17e-04	0,2,28	2.04e-02	1.0	0.5						2.0
73 ok P,s=1,m=129	0.0	5.05e-03	1.15e-03	0,38,2	3.08e-02	1.0	0.5						2.0
	75.0	1.76e-02	1.15e-03	0,2,2	4.00e-02	1.0	0.5						2.0
74 ok P,s=1,m=129	0.0	4.27e-03	1.30e-03	0,2,2	1.89e-02	1.0	0.5						2.0
	75.0	7.86e-03	1.30e-03	0,2,2	2.13e-02	1.0	0.5						2.0
75 ok P,s=1,m=129	0.0	9.59e-03	3.11e-04	0,2,28	3.00e-02	1.0	0.5						2.0
	75.0	1.81e-02	3.11e-04	0,2,28	3.61e-02	1.0	0.5						2.0
76 ok P,s=1,m=129	0.0	2.28e-03	6.40e-05	0,2,18	1.80e-02	1.0	0.5						2.0
	75.0	1.47e-02	6.40e-05	0,2,18	2.63e-02	1.0	0.5						2.0
77 ok P,s=1,m=129	0.0	9.09e-03	1.49e-04	0,2,8	2.64e-02	1.0	0.5						2.0
	75.0	1.70e-02	1.49e-04	0,2,8	3.18e-02	1.0	0.5						2.0
78 ok P,s=1,m=129	0.0	2.48e-03	1.94e-04	0,18,18	5.62e-02	0.9	0.3						2.0
	95.0	3.36e-03	1.94e-04	0,24,18	5.56e-02	0.9	0.3						2.0
79 ok P,s=1,m=129	0.0	1.12e-03	3.07e-04	0,18,38	5.19e-02	0.9	0.3						2.0
	95.0	5.70e-03	3.07e-04	0,28,38	5.41e-02	0.9	0.3						2.0
80 ok P,s=1,m=129	0.0	1.94e-03	5.42e-04	0,23,38	5.98e-02	0.9	0.3						2.0
	95.0	3.24e-03	5.42e-04	0,23,38	5.98e-02	0.9	0.3						2.0
81 ok P,s=1,m=129	0.0	2.19e-03	1.84e-03	0,28,38	6.06e-02	0.9	0.3						2.0
	95.0	1.03e-02	1.84e-03	0,28,38	6.51e-02	0.9	0.3						2.0
82 ok P,s=1,m=129	0.0	7.23e-03	2.63e-05	0,44,28	5.23e-02	0.9	0.3						2.0
	95.0	1.31e-02	2.63e-05	0,44,28	5.34e-02	0.9	0.3						2.0
83 ok P,s=1,m=129	0.0	2.19e-03	1.84e-03	0,28,38	5.97e-02	0.9	0.3						2.0
	95.0	1.04e-02	1.84e-03	0,28,38	6.37e-02	0.9	0.3						2.0
84 ok P,s=1,m=129	0.0	1.93e-03	4.48e-04	0,11,38	5.98e-02	0.9	0.3						2.0
	95.0	3.16e-03	4.48e-04	0,11,38	5.98e-02	0.9	0.3						2.0
85 ok P,s=1,m=129	0.0	1.47e-03	1.98e-04	0,8,38	5.33e-02	0.9	0.3						2.0
	95.0	7.03e-03	1.98e-04	0,28,38	5.64e-02	0.9	0.3						2.0
86 ok P,s=1,m=129	0.0	2.41e-03	1.62e-04	0,8,8	5.66e-02	0.9	0.3						2.0
	95.0	3.37e-03	1.62e-04	0,24,8	5.60e-02	0.9	0.3						2.0
87 ok T,s=2,m=129	0.0	1.16e-04	0.1	0,38,2	7.06e-02	0.9	0.2	7.06e-02	1.0	1.0			38,38
	182.0	0.3	2.72e-02	0,2,2	0.4	0.9	0.2	0.2	1.0	1.0			2,2
88 ok T,s=2,m=129	0.0	0.0	4.56e-05	4.37e-02	0,38,2	4.42e-02	0.9	0.2	4.42e-02	1.0	1.0		38,38

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89 ok T,s=2,m=129	727.8	7.16e-04	0.0	4.37e-02	35,38,2	4.06e-03	0.9	0.2	4.06e-03	1.0	1.0	38,38
	0.0	0.0	1.16e-04	0.1	0,38,2	7.07e-02	0.9	0.2	7.07e-02	1.0	1.0	38,38
	727.8	7.31e-04	0.0	0.1	35,38,2	4.02e-03	0.9	0.2	4.02e-03	1.0	1.0	38,38
90 ok T,s=2,m=129	0.0	0.0	5.35e-05	4.11e-02	0,2,2	4.79e-02	0.9	0.2	4.79e-02	1.0	1.0	2,2
	727.8	3.29e-04	1.88e-06	4.11e-02	25,2,2	8.97e-03	0.9	0.2	8.97e-03	1.0	1.0	2,2
91 ok T,s=2,m=129	0.0	0.0	1.71e-04	9.55e-02	0,38,2	8.57e-02	0.9	0.2	8.57e-02	1.0	1.0	38,38
	727.8	0.0	1.61e-05	9.55e-02	0,38,2	2.63e-02	0.9	0.2	2.63e-02	1.0	1.0	38,38
92 ok T,s=2,m=129	0.0	0.0	6.33e-05	4.11e-02	0,2,2	5.21e-02	0.9	0.2	5.21e-02	1.0	1.0	2,2
	727.8	1.12e-04	4.05e-06	4.11e-02	25,2,2	1.32e-02	0.9	0.2	1.32e-02	1.0	1.0	2,2
93 ok T,s=2,m=129	0.0	0.0	1.41e-04	0.1	0,2,2	7.77e-02	0.9	0.2	7.77e-02	1.0	1.0	2,2
	727.8	1.95e-04	2.84e-06	0.1	25,2,2	1.10e-02	0.9	0.2	1.10e-02	1.0	1.0	2,2
94 ok T,s=2,m=129	0.0	0.0	4.62e-05	4.37e-02	0,38,2	4.45e-02	0.9	0.2	4.45e-02	1.0	1.0	38,38
	727.8	5.31e-04	0.0	4.37e-02	25,38,2	4.33e-03	0.9	0.2	4.33e-03	1.0	1.0	38,38
95 ok T,s=2,m=129	0.0	0.0	1.15e-04	0.1	0,2,2	7.03e-02	0.9	0.2	7.03e-02	1.0	1.0	2,2
	182.0	0.0	0.3	2.73e-02	0,2,2	0.4	0.9	0.2	0.2	1.0	1.0	2,2
96 ok P,s=1,m=129	0.0	0.0	1.79e-02	1.10e-03	0,2,44	0.1	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	3.46e-02	7.82e-04	0,2,28	0.1	0.9	0.3	0.3	0.3	0.3	2,0
97 ok P,s=1,m=129	0.0	0.0	3.81e-03	8.67e-04	0,33,44	6.69e-02	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	2.34e-02	5.48e-04	0,2,28	8.13e-02	0.9	0.3	0.3	0.3	0.3	2,0
98 ok P,s=1,m=129	0.0	0.0	1.89e-02	9.78e-04	0,2,44	0.1	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	4.00e-02	6.22e-04	0,2,28	0.1	0.9	0.3	0.3	0.3	0.3	2,0
99 ok P,s=1,m=129	0.0	0.0	1.03e-02	6.69e-04	0,28,44	7.11e-02	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	1.84e-02	4.38e-04	0,2,43	7.52e-02	0.9	0.3	0.3	0.3	0.3	2,0
100 ok P,s=1,m=129	0.0	0.0	3.36e-02	5.37e-04	0,38,8	0.1	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	2.27e-02	1.41e-03	0,28,44	0.1	0.9	0.3	0.3	0.3	0.3	2,0
101 ok P,s=1,m=129	0.0	0.0	1.23e-02	1.47e-03	0,28,38	7.40e-02	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	1.56e-02	1.31e-03	0,2,2	7.32e-02	0.9	0.3	0.3	0.3	0.3	2,0
102 ok P,s=1,m=129	0.0	0.0	2.05e-02	1.38e-03	0,2,38	0.1	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	3.47e-02	1.20e-03	0,2,28	0.1	0.9	0.3	0.3	0.3	0.3	2,0
103 ok P,s=1,m=129	0.0	0.0	5.66e-03	1.84e-03	0,33,38	7.10e-02	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	2.26e-02	1.67e-03	0,2,28	8.06e-02	0.9	0.3	0.3	0.3	0.3	2,0
104 ok P,s=1,m=129	0.0	0.0	1.81e-02	9.81e-04	0,2,38	0.1	0.9	0.3	0.3	0.3	0.3	2,0
	140.0	0.0	3.48e-02	1.02e-03	0,2,28	0.1	0.9	0.3	0.3	0.3	0.3	2,0
118 ok T,s=2,m=129	0.0	0.0	0.5	2.10e-05	0,2,20	0.5	0.9	0.2	0.3	1.0	1.0	2,2
	182.0	0.0	0.3	2.74e-02	0,2,2	0.3	0.9	0.2	0.1	1.0	1.0	2,2
119 ok T,s=2,m=129	0.0	0.0	0.5	6.38e-05	0,2,28	0.5	0.9	0.2	0.3	1.0	1.0	2,2
	182.0	0.0	0.3	2.74e-02	0,2,2	0.3	0.9	0.2	0.1	1.0	1.0	2,2
120 ok T,s=2,m=129	0.0	0.0	0.3	2.72e-02	0,2,2	0.4	0.9	0.2	0.2	1.0	1.0	2,2
	182.0	0.0	0.5	2.10e-05	0,2,20	0.5	0.9	0.2	0.3	1.0	1.0	2,2
121 ok T,s=2,m=129	0.0	0.0	0.3	2.73e-02	0,2,2	0.4	0.9	0.2	0.2	1.0	1.0	2,2
	182.0	0.0	0.5	6.38e-05	0,2,28	0.5	0.9	0.2	0.3	1.0	1.0	2,2
122 ok T,s=2,m=129	0.0	0.0	0.3	2.74e-02	0,2,2	0.4	0.9	0.2	0.1	1.0	1.0	2,2
	182.0	4.61e-04	1.16e-06	0.1	35,38,2	7.05e-03	0.9	0.2	7.05e-03	1.0	1.0	38,38
123 ok T,s=2,m=129	0.0	0.0	0.3	2.74e-02	0,2,2	0.4	0.9	0.2	0.1	1.0	1.0	2,2
	182.0	3.89e-04	1.05e-06	0.1	35,2,2	6.72e-03	0.9	0.2	6.72e-03	1.0	1.0	2,2
124 ok P,s=1,m=129	0.0	0.0	1.85e-02	4.15e-04	0,2,8	4.49e-02	0.9	0.3	0.3	0.3	0.3	2,0
	32.5	0.0	1.50e-02	4.15e-04	0,2,8	4.21e-02	0.9	0.3	0.3	0.3	0.3	2,0
125 ok P,s=1,m=129	0.0	0.0	3.49e-02	3.32e-03	0,38,38	8.38e-02	0.9	0.3	0.3	0.3	0.3	38,0
	32.5	0.0	2.22e-02	3.32e-03	0,38,38	7.47e-02	0.9	0.3	0.3	0.3	0.3	38,0
126 ok P,s=1,m=129	0.0	0.0	3.41e-02	3.16e-03	0,38,38	8.20e-02	0.9	0.3	0.3	0.3	0.3	38,0
	32.5	0.0	2.16e-02	3.16e-03	0,38,38	7.30e-02	0.9	0.3	0.3	0.3	0.3	38,0

Elem.	Ver N+M	Ver N-M	Ver V/T	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)
	7.31e-04	0.46	0.12	0.47	0.89	0.15	0.25	1.00	1.00

Elem.	w,net R	w,net F	w,net P	Rif. cmb	Kdef	w,net Ri	w,net Fi	w,net Pi	Rif. cmb
4			6.77e-02	0,0,48	0.6			0.1	0,0,48
5			9.29e-02	0,0,48	0.6			0.1	0,0,48
6			1.50e-02	0,0,48	0.6			2.40e-02	0,0,48
7			1.32e-02	0,0,48	0.6			2.11e-02	0,0,48
8			6.51e-02	0,0,48	0.6			0.1	0,0,48
9			0.1	0,0,48	0.6			0.2	0,0,48
10			0.1	0,0,48	0.6			0.2	0,0,48
11			3.74e-02	0,0,48	0.6			5.99e-02	0,0,48
12			7.27e-02	0,0,48	0.6			0.1	0,0,48
13			3.98e-02	0,0,48	0.6			6.37e-02	0,0,48
14			5.12e-02	0,0,48	0.6			8.19e-02	0,0,48
15			5.10e-02	0,0,48	0.6			8.15e-02	0,0,48
16			4.03e-02	0,0,48	0.6			6.44e-02	0,0,48
17			2.71e-02	0,0,48	0.6			4.33e-02	0,0,48
18			6.00e-03	0,0,48	0.6			9.60e-03	0,0,48
19			5.67e-03	0,0,48	0.6			9.07e-03	0,0,48
20			2.57e-02	0,0,48	0.6			4.11e-02	0,0,48

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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21	4.92e-02	0,048	0.6	7.87e-02	0,048
22	6.08e-03	0,048	0.6	9.73e-03	0,048
23	4.38e-03	0,048	0.6	7.00e-03	0,048
24	3.72e-02	0,048	0.6	5.95e-02	0,048
25	6.17e-02	0,048	0.6	9.87e-02	0,048
26	6.02e-02	0,048	0.6	9.63e-02	0,048
27	1.72e-02	0,048	0.6	2.75e-02	0,048
28	4.10e-02	0,048	0.6	6.57e-02	0,048
29	9.22e-03	0,048	0.6	1.48e-02	0,048
30	2.37e-02	0,048	0.6	3.79e-02	0,048
31	2.17e-02	0,048	0.6	3.48e-02	0,048
32	9.21e-03	0,048	0.6	1.47e-02	0,048
33	9.06e-02	0,048	0.6	0.1	0,048
34	0.2	0,048	0.6	0.3	0,048
35	5.81e-03	0,048	0.6	9.29e-03	0,048
36	2.71e-03	0,048	0.6	4.33e-03	0,048
37	3.58e-03	0,048	0.6	5.72e-03	0,048
38	8.47e-03	0,048	0.6	1.36e-02	0,048
39	1.89e-02	0,048	0.6	3.02e-02	0,048
40	9.40e-03	0,048	0.6	1.50e-02	0,048
41	3.07e-03	0,048	0.6	4.91e-03	0,048
42	8.40e-03	0,048	0.6	1.34e-02	0,048
43	1.07e-02	0,048	0.6	1.71e-02	0,048
44	2.70e-03	0,048	0.6	4.32e-03	0,048
45	9.53e-03	0,048	0.6	1.52e-02	0,048
46	4.09e-03	0,048	0.6	6.55e-03	0,048
47	1.12e-02	0,048	0.6	1.79e-02	0,048
48	9.29e-03	0,048	0.6	1.49e-02	0,048
49	6.16e-03	0,048	0.6	9.86e-03	0,048
50	5.46e-03	0,048	0.6	8.74e-03	0,048
51	3.10e-02	0,048	0.6	4.96e-02	0,048
52	2.51e-03	0,048	0.6	4.02e-03	0,048
53	5.74e-03	0,048	0.6	9.18e-03	0,048
54	1.43e-02	0,048	0.6	2.29e-02	0,048
55	4.52e-02	0,048	0.6	7.22e-02	0,048
56	8.81e-02	0,048	0.6	0.1	0,048
57	3.01e-02	0,048	0.6	4.82e-02	0,048
58	3.26e-03	0,048	0.6	5.21e-03	0,048
59	2.04e-02	0,048	0.6	3.26e-02	0,048
60	1.13e-02	0,048	0.6	1.81e-02	0,048
61	1.83e-02	0,048	0.6	2.93e-02	0,048
62	1.78e-02	0,048	0.6	2.86e-02	0,048
63	1.74e-02	0,048	0.6	2.79e-02	0,048
64	1.22e-02	0,048	0.6	1.95e-02	0,048
65	1.82e-02	0,048	0.6	2.91e-02	0,048
66	1.03e-02	0,048	0.6	1.65e-02	0,048
67	7.13e-02	0,048	0.6	0.1	0,048
68	1.02e-02	0,048	0.6	1.64e-02	0,048
69	6.29e-02	0,048	0.6	0.1	0,048
70	4.14e-03	0,048	0.6	6.62e-03	0,048
71	5.52e-03	0,048	0.6	8.82e-03	0,048
72	3.71e-02	0,048	0.6	5.93e-02	0,048
73	3.85e-02	0,048	0.6	6.16e-02	0,048
74	0.1	0,048	0.6	0.2	0,048
75	6.67e-02	0,048	0.6	0.1	0,048
76	8.88e-03	0,048	0.6	1.42e-02	0,048
77	5.60e-02	0,048	0.6	8.96e-02	0,048
78	1.94e-03	0,048	0.6	3.10e-03	0,048
79	1.87e-02	0,048	0.6	3.00e-02	0,048
80	9.44e-03	0,048	0.6	1.51e-02	0,048
81	6.51e-03	0,048	0.6	1.04e-02	0,048
82	9.32e-02	0,048	0.6	0.1	0,048
83	6.74e-03	0,048	0.6	1.08e-02	0,048
84	9.35e-03	0,048	0.6	1.50e-02	0,048
85	1.77e-02	0,048	0.6	2.83e-02	0,048
86	1.87e-03	0,048	0.6	2.99e-03	0,048
87	4.3	0,048	0.6	6.9	0,048
88	1.0	0,048	0.6	1.5	0,048
89	1.5	0,048	0.6	2.5	0,048
90	0.9	0,048	0.6	1.5	0,048
91	1.4	0,048	0.6	2.2	0,048
92	0.9	0,048	0.6	1.5	0,048
93	1.5	0,048	0.6	2.5	0,048
94	1.0	0,048	0.6	1.5	0,048
95	4.3	0,048	0.6	7.0	0,048

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
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96			3.22e-02	0,048	0.6		5.15e-02	0,048
97			3.14e-02	0,048	0.6		5.02e-02	0,048
98			5.02e-02	0,048	0.6		8.03e-02	0,048
99			4.72e-02	0,048	0.6		7.55e-02	0,048
100			0.2	0,048	0.6		0.3	0,048
101			4.64e-02	0,048	0.6		7.42e-02	0,048
102			5.05e-02	0,048	0.6		8.08e-02	0,048
103			3.44e-02	0,048	0.6		5.50e-02	0,048
104			3.38e-02	0,048	0.6		5.41e-02	0,048
118			1.8	0,048	0.6		2.8	0,048
119			1.8	0,048	0.6		2.8	0,048
120			1.6	0,048	0.6		2.6	0,048
121			1.6	0,048	0.6		2.6	0,048
122			4.1	0,048	0.6		6.6	0,048
123			4.1	0,048	0.6		6.6	0,048
124			6.99e-02	0,048	0.6		0.1	0,048
125			1.89e-02	0,048	0.6		3.03e-02	0,048
126			1.85e-02	0,048	0.6		2.96e-02	0,048
Elem.	w,net R	w,net F	w,net P			w,net Ri	w,net Fi	w,net Pi
			4.34					6.95

VERIFICHE S.L. PANNELLI XLAM

LEGENDA TABELLA VERIFICHE S.L. PANNELLI XLAM

Il programma consente la verifica dei seguenti tipi di elementi:

1. **gusci**

2. **setti**

L'esito delle verifiche è espresso con un codice come di seguito indicato:

ok: verifica con esito positivo

NV: verifica con esito negativo

Le verifiche sono condotte in ottemperanza alle NTC 17 Gennaio 2018 seguendo anche le indicazioni analitiche riportate nella norma tecnica UNI EN 1995-1-1:2005 "Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici" e nella norma tedesca DIN 1052 (D) - 2008.

Utilizzando il riferimento tecnico dell'Università di Monaco "Teilprojekt 15 – TP 15 Flächen aus Brettstapeln, Brettsperrholz und Verbundkonstruktionen" che permette di valutare in modo esaustivo il comportamento del pannello in presenza di significative deformazioni a taglio si è valutata in fase di verifica la migrazione degli sforzi dal "Piano B" al "Piano A" come previsto nell'appendice D parte 3 della norma tedesca DIN 1052 (D) - 2008.

In particolare le verifiche effettuate sono riconducibili a quanto previsto nell'appendice D e al capitolo 10.7 della DIN:

- 10.7.1 (127) tensoflessione
- 10.7.1 (128) pressoflessione
- 10.7.1 (129) taglio torsione
- 10.7.1 (130) trazione e taglio di rotolamento
- 10.7.1 (131) compressione e taglio di rotolamento
- App D. (26) momento torcente di incollaggio

Viene riportata un'ulteriore verifica (Mestek 5.4.5) in cui tutte le tensioni normali sono rapportate alla resistenza di progetto a flessione.

Le verifiche sono riportate in due distinte tabelle. Nella prima sono riportate le sollecitazioni sulle connessioni e le verifiche delle stesse. Nella seconda invece sono riportate le verifiche dei pannelli (raccolte per macroelementi e riportate ai nodi). Di seguito si esplicita il significato dei dati riportati nelle tabelle:

Setto/Guscio	Numero del macroelemento
Mat.	Materiale degli strati
N. strati	Numero di strati
Spessore	Spessore degli strati
Incoll.	Tavole incollate lungo il lato (si/no)
Direz. fibre	Inclinazione della direzione (0) rispetto all'asse X (per gusci)
Stato	Codice della verifica: ok verificato, NV non verificato
V.connes.	Codice della verifica delle connessioni: ok verificato, NV non verificato
V.Piede	Verifica delle connessioni alla base del pannello
Azione V	Taglio agente al piede del pannello
Rif.cmb	Combinazione di riferimento per la verifica delle connessioni al piede
V.testa	Verifica delle connessioni in testa al pannello
Azione V	Taglio agente in testa al pannello
Rif. Cmb	Combinazione di riferimento per la verifica delle connessioni in testa
V h-d	Verifica degli hold down
Azione N	Sforzo normale al piede del pannello
Azione M	Momento al piede del pannello
Rif. cmb	Combinazione di riferimento per la verifica degli hold down



Nodo	Numero del nodo per il quale si riportano le verifiche; prima riga direzione (0) seconda riga direzione (1)
V.127	Verifica come da DIN 10.7.1 (127) per tensoflessione
V.128	Verifica come da DIN 10.7.1 (128) per pressoflessione
V.545	Verifica come da riferimento tecnico dell' Università di Monaco Tp 15. (tensioni normali rapportate alla resistenza di progetto a flessione)
V.129	Verifica come da DIN 10.7.1 (129) per taglio torsione
V.130	Verifica come da DIN 10.7.1 (130) trazione e taglio di rotolamento
V.131	Verifica come da DIN 10.7.1 (131) compressione e taglio di rotolamento
M. D26	Momento torcente di incollaggio come da DIN App D. (26)
Fac. B-A	Fattore di riduzione della quota afferente al piano B in relazione alla deformabilità a taglio
Qsup. A	Quota afferente al piano A
Qsup. B	Quota afferente al piano B

A chiarimento delle verifiche riportate si precisa quanto segue.

Il programma consente la modellazione di pannelli XLAM con un numero di strati dispari di ugual spessore.

Gli strati sono costituiti da tavole che possono o meno essere incollate lungo il lato lungo.

Gli strati sono caratterizzati dai moduli E0, G0, E90, G90 e Gori, rispettivamente in direzione 0 (parallela alle fibre), 90 (ortogonale alle fibre) e orizzontale.

Per convenzione la direzione 0 del pannello è quella parallela alle fibre del primo (e ultimo) strato. La direzione 0 pertanto ha caratteristiche di resistenza e rigidezza superiore alla direzione 1. Il programma ipotizza che la direzione 0 sia verticale per i setti e inclinata rispetto all' asse X per i gusci (inclinazione settabile da criterio di progetto). In fase di verifica non esiste interazione tra direzione 0 e 1.

La peculiarità del pannello XLAM è data dalla presenza di strati molto deformabili a taglio (G90 è di un ordine di grandezza inferiore a G0) così da invalidare l' ipotesi di conservazione delle sezioni piane. L' appendice D della DIN 1052 (D) - 2008 fornisce indicazioni per la valutazione delle rigidezze e delle tensioni sui pannelli XLAM, anche considerando la cedevolezza a taglio degli strati. In sostanza le azioni di piastra vengono ripartite su due piani ideali A e B mentre le azioni di lastra sono riportate sul piano ideale C. La deformabilità a taglio regola la ripartizione tra i piani A e B. Utilizzando il riferimento tecnico dell' Università di Monaco "Teilprojekt 15 – TP 15 Flächen aus Brettstapeln, Brettsperrholz und Verbundkonstruktionen" si è implementato l' algoritmo di ripartizione indicato al cap. 5.4.2.3 basato sull' analogia del taglio per carico sinusoidale. In base a questa analogia la quota di carico afferente al piano B viene ridotta in funzione delle caratteristiche statiche del pacchetto di strati e della luce del pannello nella direzione di studio.

Per entrambe le direzioni 0 e 1 si avranno 8 componenti di sollecitazione:

- Momento flettente ripartito su piano A e piano B
- Momento torcente ripartito su piano A e piano B
- Taglio ortogonale ripartito su piano A e piano B
- Sforzo normale su piano C
- Taglio membranale su piano C

Inoltre:

nel caso in cui le tavole siano incollate

- il momento di incollaggio è nullo
- il momento torcente viene ripartito sul piano A e B e verificato per la parte competente allo strato e al pannello (quota di Steiner)
- la resistenza al taglio di piano è offerta dall' intero spessore del pannello
- la dimensione "a" di fig. 16 par. 8.9.3 DIN 1052 (D) è identica nelle due direzioni

in caso contrario

- il momento di incollaggio viene computato secondo DIN D.26
- il momento torcente non viene verificato



- la resistenza al taglio di piano è offerta dallo spessore del pannello ridotto del 75%
- E90 DEVE ESSERE ASSUNTO PARI 0 (gli strati esterni si trascurano per tutti gli effetti in direzione debole)
- la dimensione "a" di fig. 16 par. 8.9.3 DIN 1052 (D) è minore in direzione (1)

Le verifiche V.127, V.128, V.545, V129 (ossia le verifiche per le tensioni normali e tangenziali) sono effettuate per gli strati pari in direzione 0 e per gli strati dispari in direzione 1 (ovvero gli strati con E0), le verifiche V130 e V131 sono effettuate per gli strati pari in direzione 1 e per gli strati dispari in direzione 0 (ovvero gli strati con G90).

Ai fini della verifica a taglio di piastra, è consentita una verifica semplificata che affida al piano B l'intero taglio e determina la tensione tangenziale dividendo il taglio per la dimensione "a" di fig. 16 par. 8.9.3. Il programma prevede a scelta dell'utente questa possibilità.

Si sottolinea che le sei verifiche sono espresse dal rapporto tra domanda e capacità, affinché la verifica sia positiva il rapporto deve essere inferiore o uguale a 1. La capacità è affetta dal termine **kmod**, espressione della classe di servizio e della durata dei carichi (si considera a livello di combinazione il caso di carico di minor durata).

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
1	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	100.5	14	0.03	-57.7	11	0.06	-451.5	7592.0	23

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
392	8.68e-04	0.01	0.0	45,28,0	1.51e-05	3.29e-03	6.99e-03	43,43,44	0.0	0	0.94	0.03	0.97
	1.03e-03	7.56e-04	0.0	45,44,0	1.20e-05	4.05e-03	3.61e-03	14,45,45			1.00	0.07	0.93
393	8.68e-04	0.01	0.0	45,28,0	1.51e-05	3.29e-03	6.99e-03	43,43,44	0.0	0	0.94	0.03	0.97
	1.03e-03	7.56e-04	0.0	45,44,0	1.20e-05	4.05e-03	3.61e-03	14,45,45			1.00	0.07	0.93
811	5.19e-03	0.01	0.0	45,28,0	1.51e-05	3.58e-03	6.99e-03	43,45,44	0.0	0	0.94	0.03	0.97
	1.38e-03	9.99e-04	0.0	44,45,0	1.20e-05	4.05e-03	3.61e-03	14,45,45			1.00	0.07	0.93
812	5.19e-03	0.01	0.0	45,28,0	1.51e-05	3.58e-03	6.99e-03	43,45,44	0.0	0	0.94	0.03	0.97
	1.38e-03	9.99e-04	0.0	44,45,0	1.20e-05	4.05e-03	3.61e-03	14,45,45			1.00	0.07	0.93
1211	5.19e-03	0.01	0.0	45,28,0	3.96e-05	4.35e-03	8.23e-03	43,44,44	0.0	0	0.94	0.03	0.97
	2.45e-03	1.83e-03	0.0	44,45,0	2.46e-05	5.63e-03	2.29e-03	43,44,45			1.00	0.07	0.93
1212	5.19e-03	0.01	0.0	45,28,0	3.96e-05	4.35e-03	8.23e-03	43,44,44	0.0	0	0.94	0.03	0.97
	2.45e-03	1.83e-03	0.0	44,45,0	2.46e-05	5.63e-03	2.29e-03	43,44,45			1.00	0.07	0.93
1665	0.02	0.02	0.0	45,44,0	3.96e-05	0.03	0.03	43,45,44	0.0	0	0.94	0.03	0.97
	3.84e-03	3.05e-03	0.0	45,44,0	2.46e-05	9.14e-03	4.81e-03	43,45,44			1.00	0.07	0.93
1666	0.02	0.02	0.0	45,44,0	3.96e-05	0.03	0.03	43,45,44	0.0	0	0.94	0.03	0.97
	3.84e-03	3.05e-03	0.0	45,44,0	2.46e-05	9.14e-03	4.81e-03	43,45,44			1.00	0.07	0.93
2289	0.05	0.05	0.0	45,44,0	4.31e-04	0.06	0.05	43,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	45,44,0	2.40e-04	0.05	0.02	43,45,44			1.00	0.07	0.93
2290	0.05	0.05	0.0	45,44,0	4.31e-04	0.06	0.05	43,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	45,44,0	2.40e-04	0.05	0.02	43,45,44			1.00	0.07	0.93
2391	0.05	0.05	0.0	45,44,0	4.31e-04	0.06	0.05	43,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	45,44,0	2.40e-04	0.05	0.02	43,45,44			1.00	0.07	0.93
2392	0.05	0.05	0.0	45,44,0	4.31e-04	0.06	0.05	43,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	45,44,0	2.40e-04	0.05	0.02	43,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.05	0.0		4.31e-04	0.06	0.05		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
2	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	3.70e-06	44	0.0	3.70e-06	44	0.02	0.0	-2041.0	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2368	2.82e-03	3.38e-04	0.0	38,35,0	2.76e-06	3.91e-03	1.63e-03	28,28,35	0.0	0	0.61	0.05	0.95
	2.30e-03	6.88e-04	0.0	34,35,0	2.48e-06	4.48e-03	2.65e-03	28,34,34			1.00	0.07	0.93
2929	2.82e-03	3.38e-04	0.0	38,35,0	2.76e-06	3.91e-03	1.63e-03	28,28,35	0.0	0	0.61	0.05	0.95
	2.30e-03	6.88e-04	0.0	34,35,0	2.48e-06	4.48e-03	2.65e-03	28,34,34			1.00	0.07	0.93
2954	2.82e-03	3.38e-04	0.0	38,35,0	2.76e-06	3.91e-03	1.63e-03	28,28,35	0.0	0	0.61	0.05	0.95
	2.30e-03	6.88e-04	0.0	34,35,0	2.48e-06	4.48e-03	2.65e-03	28,34,34			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	2.82e-03	6.88e-04	0.0	2.76e-06	4.48e-03	2.65e-03	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
3	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	-5.69e-06	33	0.0	-5.69e-06	33	0.03	0.0	2544.1	43

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2336	0.03	0.02	0.0	13,12,0	6.26e-04	0.08	0.06	13,13,12	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,14,0	6.39e-04	0.12	0.10	13,13,14			1.00	0.07	0.93
2897	0.03	0.02	0.0	13,12,0	6.26e-04	0.08	0.06	13,13,12	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,14,0	6.39e-04	0.12	0.10	13,13,14			1.00	0.07	0.93
2952	0.03	0.02	0.0	13,12,0	6.26e-04	0.08	0.06	13,13,12	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,14,0	6.39e-04	0.12	0.10	13,13,14			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.05	0.04	0.0	6.39e-04	0.12	0.10	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
4	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	2.43e-06	11	0.0	2.43e-06	11	0.07	8.03e-06	6907.7	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2886	1.53e-04	1.37e-03	0.0	25,8,0	1.71e-05	3.40e-04	1.05e-03	18,43,44	0.0	0	0.21	0.13	0.87
	4.93e-03	6.91e-04	0.0	18,13,0	1.69e-05	6.00e-03	3.91e-04	18,18,13			1.00	0.07	0.93
2887	1.53e-04	1.37e-03	0.0	25,8,0	1.71e-05	3.40e-04	1.05e-03	18,43,44	0.0	0	0.21	0.13	0.87
	4.93e-03	6.91e-04	0.0	18,13,0	1.69e-05	6.00e-03	3.91e-04	18,18,13			1.00	0.07	0.93
3001	1.53e-04	1.37e-03	0.0	25,8,0	1.71e-05	3.40e-04	1.05e-03	18,43,44	0.0	0	0.21	0.13	0.87
	4.93e-03	6.91e-04	0.0	18,13,0	1.69e-05	6.00e-03	3.91e-04	18,18,13			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	4.93e-03	1.37e-03	0.0	1.71e-05	6.00e-03	1.05e-03	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
5	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	-7.30e-06	26	0.0	-7.30e-06	26	0.05	1.38e-06	4107.6	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2665	4.08e-04	1.74e-03	0.0	25,12,0	1.05e-05	1.27e-03	2.33e-03	13,35,34	0.0	0	0.37	0.08	0.92
	3.18e-03	2.11e-03	0.0	24,13,0	1.03e-05	4.49e-03	1.30e-03	13,18,12			1.00	0.07	0.93
2666	4.08e-04	1.74e-03	0.0	25,12,0	1.05e-05	1.27e-03	2.33e-03	13,35,34	0.0	0	0.37	0.08	0.92
	3.18e-03	2.11e-03	0.0	24,13,0	1.03e-05	4.49e-03	1.30e-03	13,18,12			1.00	0.07	0.93
2987	4.08e-04	1.74e-03	0.0	25,12,0	1.05e-05	1.27e-03	2.33e-03	13,35,34	0.0	0	0.37	0.08	0.92
	3.18e-03	2.11e-03	0.0	24,13,0	1.03e-05	4.49e-03	1.30e-03	13,18,12			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	3.18e-03	2.11e-03	0.0	1.05e-05	4.49e-03	2.33e-03	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
6	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	-2.04e-06	44	0.0	-2.04e-06	44	0.02	4.19e-06	-2251.1	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2367	2.75e-03	3.05e-04	0.0	38,35,0	2.79e-06	3.92e-03	1.62e-03	28,28,35	0.0	0	0.61	0.05	0.95
	1.62e-03	1.11e-03	0.0	34,35,0	2.50e-06	3.64e-03	2.74e-03	28,34,35			1.00	0.07	0.93
2928	2.75e-03	3.05e-04	0.0	38,35,0	2.79e-06	3.92e-03	1.62e-03	28,28,35	0.0	0	0.61	0.05	0.95
	1.62e-03	1.11e-03	0.0	34,35,0	2.50e-06	3.64e-03	2.74e-03	28,34,35			1.00	0.07	0.93
2955	2.75e-03	3.05e-04	0.0	38,35,0	2.79e-06	3.92e-03	1.62e-03	28,28,35	0.0	0	0.61	0.05	0.95
	1.62e-03	1.11e-03	0.0	34,35,0	2.50e-06	3.64e-03	2.74e-03	28,34,35			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	2.75e-03	1.11e-03	0.0	2.79e-06	3.92e-03	2.74e-03	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
7	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.04	312.4	2	6.83e-03	94.0	18	0.03	-342.1	3.670e+04	23

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2434	0.02	0.02	0.0	45,43,0	3.28e-04	0.03	0.03	44,45,45	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	43,45,0	1.83e-04	0.05	9.33e-03	44,43,45			1.00	0.07	0.93
2435	0.02	0.02	0.0	45,43,0	3.28e-04	0.03	0.03	44,45,45	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	43,45,0	1.83e-04	0.05	9.33e-03	44,43,45			1.00	0.07	0.93
2436	0.02	0.01	0.0	45,44,0	9.91e-05	0.02	0.02	44,45,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	44,45,0	4.54e-05	0.05	6.79e-03	44,44,45			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



2437	0.01	0.01	0.0	46,44,0	3.67e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	8.33e-03	0.0	44,45,0	1.31e-05	0.03	4.42e-03	43,44,45			1.00	0.07	0.93
2438	0.01	0.01	0.0	46,44,0	1.66e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.01	8.35e-03	0.0	44,45,0	2.40e-06	0.03	4.31e-03	43,44,45			1.00	0.07	0.93
2439	0.01	0.01	0.0	46,44,0	3.54e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	44,45,0	1.61e-05	0.05	9.84e-03	44,44,45			1.00	0.07	0.93
2440	0.02	0.02	0.0	45,44,0	2.31e-04	0.02	0.03	44,45,44	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	44,45,0	1.30e-04	0.11	0.02	44,44,45			1.00	0.07	0.93
2441	0.02	0.02	0.0	45,44,0	2.31e-04	0.02	0.03	44,45,44	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	44,45,0	1.30e-04	0.11	0.02	44,44,45			1.00	0.07	0.93
3072	0.02	0.02	0.0	45,43,0	3.28e-04	0.03	0.03	44,45,45	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	43,45,0	1.83e-04	0.05	9.33e-03	44,43,45			1.00	0.07	0.93
3073	0.02	0.02	0.0	45,43,0	3.28e-04	0.03	0.03	44,45,45	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	43,45,0	1.83e-04	0.05	9.33e-03	44,43,45			1.00	0.07	0.93
3074	0.02	0.01	0.0	45,44,0	9.91e-05	0.02	0.02	44,45,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	44,45,0	4.54e-05	0.05	6.79e-03	44,44,45			1.00	0.07	0.93
3075	0.01	0.01	0.0	46,44,0	3.67e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	8.33e-03	0.0	44,45,0	1.31e-05	0.03	4.42e-03	43,44,45			1.00	0.07	0.93
3076	0.01	0.01	0.0	46,44,0	1.66e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.01	8.35e-03	0.0	44,45,0	2.40e-06	0.03	4.31e-03	43,44,45			1.00	0.07	0.93
3077	0.01	0.01	0.0	46,44,0	3.54e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	44,45,0	1.61e-05	0.05	9.84e-03	44,44,45			1.00	0.07	0.93
3078	0.02	0.02	0.0	45,44,0	2.31e-04	0.02	0.03	44,45,44	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	44,45,0	1.30e-04	0.11	0.02	44,44,45			1.00	0.07	0.93
3079	0.02	0.02	0.0	45,44,0	2.31e-04	0.02	0.03	44,45,44	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	44,45,0	1.30e-04	0.11	0.02	44,44,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.04	0.0		3.28e-04	0.11	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
8	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0 cm	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		daN			daN			daN	daN cm	
ok	0.06	621.8	12	0.04	689.8	12	0.07	-2166.2	-1.572e+05	13

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
394	0.0	0.02	0.0	0,18,0	1.03e-04	7.95e-03	0.01	44,44,44	0.0	0	0.0	0.0	0.0
	4.36e-03	2.91e-03	0.0	45,45,0	6.79e-05	0.01	0.01	44,45,45			1.00	0.07	0.93
395	5.27e-03	0.02	0.0	45,18,0	1.03e-04	0.01	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	5.57e-03	4.37e-03	0.0	45,44,0	6.79e-05	0.01	0.01	44,45,45			1.00	0.07	0.93
396	8.43e-03	0.01	0.0	45,44,0	6.48e-05	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	5.57e-03	4.37e-03	0.0	45,44,0	3.71e-05	0.01	4.95e-03	44,45,44			1.00	0.07	0.93
397	9.67e-03	0.01	0.0	45,44,0	3.45e-05	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	4.76e-03	4.11e-03	0.0	45,44,0	1.41e-05	0.01	2.82e-03	44,45,44			1.00	0.07	0.93
398	9.67e-03	0.01	0.0	45,44,0	1.98e-05	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	4.36e-03	3.91e-03	0.0	45,44,0	9.16e-06	0.01	1.88e-03	12,44,44			1.00	0.07	0.93
399	9.64e-03	0.01	0.0	45,44,0	2.63e-05	0.02	0.02	45,45,44	0.0	0	0.94	0.03	0.97
	5.05e-03	4.35e-03	0.0	45,44,0	8.12e-06	0.01	2.74e-03	24,45,44			1.00	0.07	0.93
400	8.22e-03	0.01	0.0	45,44,0	5.12e-05	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	5.83e-03	4.62e-03	0.0	45,44,0	2.62e-05	0.01	4.96e-03	44,45,44			1.00	0.07	0.93
401	4.69e-03	0.02	0.0	45,8,0	8.73e-05	0.01	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	5.83e-03	4.62e-03	0.0	45,44,0	5.55e-05	0.01	0.01	44,45,45			1.00	0.07	0.93
402	0.0	0.02	0.0	0,8,0	8.73e-05	7.83e-03	0.01	44,44,44	0.0	0	0.0	0.0	0.0
	4.63e-03	3.12e-03	0.0	45,45,0	5.55e-05	0.01	0.01	44,45,45			1.00	0.07	0.93
813	5.68e-03	0.02	0.0	45,18,0	1.03e-04	7.95e-03	0.01	44,44,44	0.0	0	0.94	0.03	0.97
	8.22e-03	6.55e-03	0.0	45,45,0	6.79e-05	0.02	0.01	44,45,45			1.00	0.07	0.93
814	0.02	0.02	0.0	45,44,0	1.03e-04	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	45,44,0	6.79e-05	0.04	0.01	44,45,45			1.00	0.07	0.93
815	0.03	0.03	0.0	45,44,0	6.48e-05	0.03	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	45,44,0	3.71e-05	0.04	6.62e-03	44,45,44			1.00	0.07	0.93
816	0.03	0.03	0.0	45,44,0	3.45e-05	0.03	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	45,44,0	1.41e-05	0.04	6.44e-03	44,44,44			1.00	0.07	0.93
817	0.03	0.03	0.0	45,44,0	1.98e-05	0.03	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	46,44,0	9.76e-06	0.04	6.24e-03	12,44,44			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	2.51e-03	4.63e-03	0.0	46,44,0	4.23e-05	7.73e-03	5.40e-03	44,46,44			1.00	0.07	0.93
2407	0.03	0.03	0.0	45,44,0	2.23e-04	0.04	0.04	44,45,43	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	45,43,0	1.63e-04	0.03	0.02	38,45,44			1.00	0.07	0.93
2408	0.03	0.03	0.0	45,44,0	2.23e-04	0.04	0.04	44,45,43	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	45,43,0	1.63e-04	0.03	0.02	38,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.06	0.05	0.0		3.49e-04	0.08	0.06		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
9	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	8.99e-06	12	0.0	8.99e-06	12	0.05	8.47e-06	3850.1	12

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2664	1.73e-03	6.85e-04	0.0	12,23,0	1.87e-05	3.64e-03	3.96e-03	12,35,35	0.0	0	0.37	0.08	0.92
	9.44e-03	6.58e-03	0.0	34,35,0	1.83e-05	0.02	0.02	12,34,35			1.00	0.07	0.93
2986	1.73e-03	6.85e-04	0.0	12,23,0	1.87e-05	3.64e-03	3.96e-03	12,35,35	0.0	0	0.37	0.08	0.92
	9.44e-03	6.58e-03	0.0	34,35,0	1.83e-05	0.02	0.02	12,34,35			1.00	0.07	0.93
2987	1.73e-03	6.85e-04	0.0	12,23,0	1.87e-05	3.64e-03	3.96e-03	12,35,35	0.0	0	0.37	0.08	0.92
	9.44e-03	6.58e-03	0.0	34,35,0	1.83e-05	0.02	0.02	12,34,35			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	9.44e-03	6.58e-03	0.0		1.87e-05	0.02	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
10	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1	8.11e-03	0.04	0.0	35,38,0	7.87e-03	0.14	0.16	34,35,34	0.0	0	0.94	0.03	0.97
	4.02e-03	3.02e-03	0.0	35,34,0	4.35e-03	0.06	0.05	34,35,35			1.00	0.07	0.93
2	0.02	0.04	0.0	34,38,0	0.01	0.14	0.16	34,35,34	0.0	0	0.94	0.03	0.97
	4.02e-03	4.63e-03	0.0	35,34,0	6.98e-03	0.06	0.05	34,35,35			1.00	0.07	0.93
3	0.03	0.02	0.0	34,35,0	0.01	0.02	9.45e-03	34,34,35	0.0	0	0.94	0.03	0.97
	3.66e-03	4.63e-03	0.0	35,34,0	6.98e-03	0.01	0.01	34,35,34			1.00	0.07	0.93
4	0.03	0.02	0.0	34,35,0	7.28e-03	0.02	3.94e-03	34,34,35	0.0	0	0.94	0.03	0.97
	2.83e-04	6.76e-04	0.0	35,34,0	4.32e-03	0.01	0.01	34,35,34			1.00	0.07	0.93
5	0.03	0.02	0.0	34,35,0	3.57e-03	0.02	3.40e-03	34,34,35	0.0	0	0.94	0.03	0.97
	0.0	2.02e-04	0.0	0,34,0	2.12e-03	0.01	0.01	34,35,33			0.0	0.0	0.0
6	0.03	0.02	0.0	34,35,0	1.14e-03	0.02	3.33e-03	34,34,35	0.0	0	0.94	0.03	0.97
	0.0	1.71e-04	0.0	0,11,0	6.82e-04	0.01	0.01	34,35,33			0.0	0.0	0.0
7	0.03	0.02	0.0	34,35,0	3.29e-04	0.02	3.34e-03	34,34,35	0.0	0	0.94	0.03	0.97
	0.0	1.71e-04	0.0	0,33,0	1.99e-04	0.01	0.01	34,35,33			0.0	0.0	0.0
8	0.03	0.02	0.0	34,35,0	1.94e-03	0.02	3.49e-03	34,34,35	0.0	0	0.94	0.03	0.97
	0.0	2.20e-04	0.0	0,33,0	1.15e-03	0.01	0.01	34,35,33			0.0	0.0	0.0
9	0.03	0.02	0.0	34,35,0	4.78e-03	0.02	4.24e-03	34,34,35	0.0	0	0.94	0.03	0.97
	2.83e-04	5.00e-04	0.0	36,33,0	2.84e-03	0.01	0.01	34,35,33			1.00	0.07	0.93
10	0.02	0.02	0.0	34,35,0	8.05e-03	0.02	7.69e-03	34,34,35	0.0	0	0.94	0.03	0.97
	1.44e-03	1.37e-03	0.0	35,34,0	4.78e-03	9.48e-03	9.56e-03	34,36,33			1.00	0.07	0.93
11	0.05	0.04	0.0	34,35,0	8.05e-03	0.08	0.04	34,34,35	0.0	0	0.94	0.03	0.97
	4.02e-03	3.43e-03	0.0	35,34,0	4.78e-03	0.03	0.03	34,35,34			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



1736	0.03	0.03	0.0	35,34,0	1.42e-03	0.08	0.02	34,35,34	0.0	0	1.00	0.07	0.93
	0.06	0.04	0.0	35,34,0	2.00e-03	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	35,34,0	1.31e-03	0.03	0.02	34,35,34	0.0	0	1.00	0.07	0.93
2336	0.0	0.02	0.0	0,28,0	2.34e-03	0.10	0.11	33,35,34	0.0	0	0.0	0.0	0.0
	2.29e-03	3.14e-03	0.0	35,34,0	1.26e-03	7.76e-03	7.68e-03	33,35,34	0.0	0	1.00	0.07	0.93
2337	5.08e-03	0.02	0.0	35,28,0	3.27e-03	0.10	0.11	33,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.03	0.0	35,34,0	2.10e-03	0.07	0.02	33,35,34	0.0	0	1.00	0.07	0.93
2338	7.38e-03	6.10e-03	0.0	35,34,0	3.27e-03	5.67e-03	3.60e-03	33,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.05	0.0	34,36,0	2.10e-03	0.14	0.02	33,34,36	0.0	0	1.00	0.07	0.93
2339	9.84e-03	7.32e-03	0.0	33,36,0	2.30e-03	7.69e-03	4.25e-03	34,33,34	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	34,35,0	1.48e-03	0.18	0.03	34,34,35	0.0	0	1.00	0.07	0.93
2340	0.01	7.46e-03	0.0	33,36,0	1.17e-03	8.52e-03	4.25e-03	34,33,34	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	34,35,0	7.71e-04	0.18	0.03	33,34,35	0.0	0	1.00	0.07	0.93
2341	0.01	7.46e-03	0.0	33,36,0	3.49e-04	8.96e-03	1.42e-03	33,33,35	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	34,34,0	2.52e-04	0.18	0.03	33,34,34	0.0	0	1.00	0.07	0.93
2342	0.01	7.37e-03	0.0	33,36,0	1.79e-04	8.96e-03	1.61e-03	34,33,35	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	34,34,0	1.43e-04	0.18	0.03	34,34,34	0.0	0	1.00	0.07	0.93
2343	0.01	7.09e-03	0.0	33,36,0	7.92e-04	8.96e-03	1.61e-03	34,33,35	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	35,36,0	5.32e-04	0.18	0.03	34,36,36	0.0	0	1.00	0.07	0.93
2344	9.41e-03	6.28e-03	0.0	33,35,0	1.62e-03	7.96e-03	1.56e-03	34,34,36	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	33,36,0	1.06e-03	0.18	0.03	34,35,36	0.0	0	1.00	0.07	0.93
2345	6.75e-03	4.50e-03	0.0	34,35,0	2.13e-03	5.51e-03	9.19e-04	34,34,35	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	35,36,0	1.39e-03	0.15	0.03	34,35,36	0.0	0	1.00	0.07	0.93
2346	7.81e-03	5.93e-03	0.0	36,33,0	2.13e-03	0.01	7.38e-03	34,36,33	0.0	0	0.94	0.03	0.97
	0.03	0.03	0.0	35,34,0	1.39e-03	0.08	0.01	34,35,36	0.0	0	1.00	0.07	0.93
2347	7.81e-03	5.93e-03	0.0	36,33,0	1.67e-03	0.01	7.38e-03	33,36,33	0.0	0	0.94	0.03	0.97
	2.01e-03	6.08e-03	0.0	35,34,0	1.11e-03	7.40e-03	2.46e-03	33,35,34	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.08	0.06	0.0		0.01	0.18	0.16		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
11	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0 cm	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb			
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0			
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2230	0.0	0.01	0.0	0,2,0	1.55e-03	2.02e-03	0.01	2,45,2	0.0	0	0.0	0.0	0.0
	8.74e-04	4.20e-03	0.0	45,38,0	1.47e-03	3.43e-03	3.40e-03	2,45,44	0.0	0	1.00	0.07	0.93
2231	0.03	0.02	0.0	44,45,0	1.55e-03	0.05	0.02	2,44,45	0.0	0	0.23	0.12	0.88
	4.24e-03	4.51e-03	0.0	45,44,0	1.47e-03	0.01	9.44e-03	2,45,44	0.0	0	1.00	0.07	0.93
2232	0.05	0.03	0.0	44,45,0	1.38e-03	0.07	0.02	2,44,45	0.0	0	0.23	0.12	0.88
	7.59e-03	7.23e-03	0.0	45,44,0	1.34e-03	0.02	0.01	2,45,44	0.0	0	1.00	0.07	0.93
2233	0.05	0.03	0.0	44,45,0	1.07e-03	0.07	0.02	43,44,45	0.0	0	0.23	0.12	0.88
	7.59e-03	7.23e-03	0.0	45,44,0	3.74e-04	0.02	0.01	43,45,44	0.0	0	1.00	0.07	0.93
2234	0.05	0.03	0.0	44,45,0	9.69e-04	0.06	0.02	43,44,45	0.0	0	0.23	0.12	0.88
	3.00e-03	2.00e-03	0.0	44,45,0	3.23e-04	9.50e-03	8.50e-03	43,44,45	0.0	0	1.00	0.07	0.93
2235	0.05	0.03	0.0	44,45,0	9.46e-04	0.06	0.02	44,44,45	0.0	0	0.23	0.12	0.88
	2.99e-03	2.02e-03	0.0	44,45,0	3.18e-04	9.50e-03	8.50e-03	44,44,45	0.0	0	1.00	0.07	0.93
2236	0.05	0.02	0.0	44,45,0	1.10e-03	0.07	0.02	43,44,45	0.0	0	0.23	0.12	0.88
	7.18e-03	6.84e-03	0.0	45,44,0	3.84e-04	0.02	0.01	43,45,44	0.0	0	1.00	0.07	0.93
2237	0.05	0.02	0.0	44,45,0	1.40e-03	0.07	0.02	2,44,45	0.0	0	0.23	0.12	0.88
	7.18e-03	6.84e-03	0.0	45,44,0	1.37e-03	0.02	0.01	2,45,44	0.0	0	1.00	0.07	0.93
2238	0.04	0.02	0.0	44,45,0	1.58e-03	0.05	0.02	2,44,45	0.0	0	0.23	0.12	0.88
	4.53e-03	4.73e-03	0.0	45,44,0	1.50e-03	0.01	9.90e-03	2,45,44	0.0	0	1.00	0.07	0.93
2239	0.0	0.01	0.0	0,2,0	1.58e-03	2.77e-03	0.01	2,45,38	0.0	0	0.0	0.0	0.0
	7.16e-04	4.20e-03	0.0	45,38,0	1.50e-03	3.09e-03	3.47e-03	2,45,44	0.0	0	1.00	0.07	0.93
2522	0.0	0.01	0.0	0,2,0	1.55e-03	2.02e-03	0.01	2,45,2	0.0	0	0.0	0.0	0.0
	8.74e-04	4.20e-03	0.0	45,38,0	1.47e-03	3.43e-03	3.40e-03	2,45,44	0.0	0	1.00	0.07	0.93
2523	0.03	0.02	0.0	44,45,0	1.55e-03	0.05	0.02	2,44,45	0.0	0	0.23	0.12	0.88
	4.24e-03	4.51e-03	0.0	45,44,0	1.47e-03	0.01	9.44e-03	2,45,44	0.0	0	1.00	0.07	0.93
2524	0.05	0.03	0.0	44,45,0	1.38e-03	0.07	0.02	2,44,45	0.0	0	0.23	0.12	0.88
	7.59e-03	7.23e-03	0.0	45,44,0	1.34e-03	0.02	0.01	2,45,44	0.0	0	1.00	0.07	0.93
2525	0.05	0.03	0.0	44,45,0	1.07e-03	0.07	0.02	43,44,45	0.0	0	0.23	0.12	0.88

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	7.59e-03	7.23e-03	0.0	45,44,0	3.74e-04	0.02	0.01	43,45,44			1.00	0.07	0.93
2526	0.05	0.03	0.0	44,45,0	9.69e-04	0.06	0.02	43,44,45	0.0	0	0.23	0.12	0.88
	3.00e-03	2.00e-03	0.0	44,45,0	3.23e-04	9.50e-03	8.50e-03	43,44,45			1.00	0.07	0.93
2527	0.05	0.03	0.0	44,45,0	9.46e-04	0.06	0.02	44,44,45	0.0	0	0.23	0.12	0.88
	2.99e-03	2.02e-03	0.0	44,45,0	3.18e-04	9.50e-03	8.50e-03	44,44,45			1.00	0.07	0.93
2528	0.05	0.02	0.0	44,45,0	1.10e-03	0.07	0.02	43,44,45	0.0	0	0.23	0.12	0.88
	7.18e-03	6.84e-03	0.0	45,44,0	3.84e-04	0.02	0.01	43,45,44			1.00	0.07	0.93
2529	0.05	0.02	0.0	44,45,0	1.40e-03	0.07	0.02	2,44,45	0.0	0	0.23	0.12	0.88
	7.18e-03	6.84e-03	0.0	45,44,0	1.37e-03	0.02	0.01	2,45,44			1.00	0.07	0.93
2530	0.04	0.02	0.0	44,45,0	1.58e-03	0.05	0.02	2,44,45	0.0	0	0.23	0.12	0.88
	4.53e-03	4.73e-03	0.0	45,44,0	1.50e-03	0.01	9.90e-02	2,45,44			1.00	0.07	0.93
2531	0.0	0.01	0.0	0,2,0	1.58e-03	2.77e-03	0.01	2,45,38	0.0	0	0.0	0.0	0.0
	7.16e-04	4.20e-03	0.0	45,38,0	1.50e-03	3.09e-03	3.47e-03	2,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.03	0.0		1.58e-03	0.07	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
12	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	-3.76e-06	38	0.0	-3.76e-06	38	0.04	2.77e-06	-4058.9	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2390	0.03	0.02	0.0	24,25,0	9.37e-04	0.08	0.06	24,24,25	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	25,24,0	8.81e-04	0.14	0.11	24,25,23			1.00	0.07	0.93
2951	0.03	0.02	0.0	24,25,0	9.37e-04	0.08	0.06	24,24,25	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	25,24,0	8.81e-04	0.14	0.11	24,25,23			1.00	0.07	0.93
2953	0.03	0.02	0.0	24,25,0	9.37e-04	0.08	0.06	24,24,25	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	25,24,0	8.81e-04	0.14	0.11	24,25,23			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.06	0.04	0.0		9.37e-04	0.14	0.11		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
13	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.06	-630.8	24	0.04	-700.1	24	0.07	-2175.2	1.579e+05	25

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
411	0.0	0.02	0.0	0,18,0	8.59e-05	7.86e-03	0.01	44,44,44	0.0	0	0.0	0.0	0.0
	4.59e-03	3.11e-03	0.0	45,45,0	5.52e-05	0.01	0.01	45,45,45			1.00	0.07	0.93
412	4.62e-03	0.02	0.0	45,18,0	8.59e-05	0.01	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	5.80e-03	4.62e-03	0.0	45,44,0	5.52e-05	0.01	0.01	45,45,45			1.00	0.07	0.93
413	8.21e-03	0.01	0.0	45,44,0	4.99e-05	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	5.80e-03	4.62e-03	0.0	45,44,0	2.50e-05	0.01	5.00e-03	44,45,44			1.00	0.07	0.93
414	9.65e-03	0.01	0.0	45,44,0	2.75e-05	0.02	0.02	46,45,44	0.0	0	0.94	0.03	0.97
	5.05e-03	4.37e-03	0.0	45,44,0	8.58e-06	0.01	2.78e-03	45,45,44			1.00	0.07	0.93
415	9.69e-03	0.01	0.0	45,44,0	2.05e-05	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	4.38e-03	3.94e-03	0.0	45,44,0	9.37e-06	0.01	1.90e-03	24,44,44			1.00	0.07	0.93
416	9.69e-03	0.01	0.0	45,44,0	3.64e-05	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	4.79e-03	4.15e-03	0.0	45,44,0	1.55e-05	0.01	2.84e-03	44,45,44			1.00	0.07	0.93
417	8.47e-03	0.01	0.0	45,44,0	6.83e-05	0.02	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	5.60e-03	4.40e-03	0.0	45,44,0	3.98e-05	0.01	5.00e-03	44,45,44			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



2434	0.02	0.02	0.0	46,44,0	2.36e-04	0.04	0.02	38,44,45	0.0	0	1.00	0.07	0.93
	0.03	0.03	0.0	45,44,0	2.22e-04	0.04	0.04	44,45,43			0.94	0.03	0.97
	0.01	0.01	0.0	45,43,0	1.61e-04	0.03	0.02	38,45,44			1.00	0.07	0.93
2435	0.03	0.03	0.0	45,44,0	2.22e-04	0.04	0.04	44,45,43	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	45,43,0	1.61e-04	0.03	0.02	38,45,44			1.00	0.07	0.93
2436	0.02	0.02	0.0	45,44,0	8.13e-05	0.03	0.03	44,45,44	0.0	0	0.94	0.03	0.97
	2.45e-03	4.56e-03	0.0	46,44,0	4.22e-05	7.58e-03	5.62e-03	44,46,44			1.00	0.07	0.93
2437	0.01	0.01	0.0	46,44,0	3.43e-05	0.03	0.02	43,46,44	0.0	0	0.94	0.03	0.97
	2.45e-03	4.56e-03	0.0	46,44,0	1.08e-05	7.58e-03	1.98e-03	45,46,44			1.00	0.07	0.93
2438	0.01	0.01	0.0	46,44,0	2.30e-05	0.03	0.02	44,46,44	0.0	0	0.94	0.03	0.97
	2.91e-03	4.66e-03	0.0	46,44,0	1.18e-05	8.53e-03	2.09e-03	24,46,44			1.00	0.07	0.93
2439	0.01	9.64e-03	0.0	46,44,0	5.58e-05	0.03	0.02	44,46,44	0.0	0	0.94	0.03	0.97
	4.88e-03	6.19e-03	0.0	46,44,0	3.02e-05	0.01	2.87e-03	44,44,44			1.00	0.07	0.93
2440	0.02	0.02	0.0	45,44,0	1.64e-04	0.03	0.02	44,45,44	0.0	0	0.94	0.03	0.97
	4.88e-03	6.19e-03	0.0	46,44,0	1.04e-04	0.01	2.87e-03	44,44,44			1.00	0.07	0.93
2441	0.07	0.06	0.0	45,44,0	3.97e-04	0.09	0.07	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	46,44,0	2.36e-04	0.04	0.02	38,44,45			1.00	0.07	0.93
2442	0.07	0.06	0.0	45,44,0	3.97e-04	0.09	0.07	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	46,44,0	2.36e-04	0.04	0.02	38,44,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.07	0.06	0.0		3.97e-04	0.09	0.07		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
15	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1331	7.03e-03	3.76e-03	0.0	34,35,0	2.83e-04	0.01	4.50e-03	28,34,33	0.0	0	0.54	0.06	0.94
	7.11e-03	9.56e-03	0.0	35,34,0	2.10e-04	0.02	5.00e-03	28,35,34			1.00	0.07	0.93
1332	0.01	4.03e-03	0.0	28,35,0	2.83e-04	0.01	4.50e-03	28,34,33	0.0	0	0.54	0.06	0.94
	0.05	0.03	0.0	35,33,0	2.10e-04	0.11	0.04	28,35,33			1.00	0.07	0.93
1333	0.01	4.03e-03	0.0	28,35,0	9.00e-05	0.02	3.57e-03	28,28,35	0.0	0	0.54	0.06	0.94
	0.05	0.04	0.0	35,35,0	8.89e-05	0.12	0.04	34,35,35			1.00	0.07	0.93
1334	0.01	1.87e-03	0.0	28,35,0	9.48e-06	0.02	1.22e-03	28,28,35	0.0	0	0.54	0.06	0.94
	0.05	0.04	0.0	35,35,0	5.50e-05	0.12	0.04	35,35,35			1.00	0.07	0.93
1335	0.01	4.03e-03	0.0	28,35,0	9.10e-05	0.02	3.57e-03	28,28,35	0.0	0	0.54	0.06	0.94
	0.05	0.04	0.0	35,35,0	8.94e-05	0.12	0.04	34,35,35			1.00	0.07	0.93
1336	0.01	4.03e-03	0.0	28,35,0	2.81e-04	0.01	4.50e-03	28,34,33	0.0	0	0.54	0.06	0.94
	0.05	0.03	0.0	35,33,0	2.08e-04	0.11	0.04	28,35,33			1.00	0.07	0.93
1337	7.03e-03	3.76e-03	0.0	34,35,0	2.81e-04	0.01	4.50e-03	28,34,33	0.0	0	0.54	0.06	0.94
	7.21e-03	9.38e-03	0.0	35,34,0	2.08e-04	0.02	4.95e-03	28,35,34			1.00	0.07	0.93
1847	7.03e-03	3.76e-03	0.0	34,35,0	2.83e-04	0.01	4.50e-03	28,34,33	0.0	0	0.54	0.06	0.94
	7.11e-03	9.56e-03	0.0	35,34,0	2.10e-04	0.02	5.00e-03	28,35,34			1.00	0.07	0.93
1848	0.01	4.03e-03	0.0	28,35,0	2.83e-04	0.01	4.50e-03	28,34,33	0.0	0	0.54	0.06	0.94
	0.05	0.03	0.0	35,33,0	2.10e-04	0.11	0.04	28,35,33			1.00	0.07	0.93
1849	0.01	4.03e-03	0.0	28,35,0	9.00e-05	0.02	3.57e-03	28,28,35	0.0	0	0.54	0.06	0.94
	0.05	0.04	0.0	35,35,0	8.89e-05	0.12	0.04	34,35,35			1.00	0.07	0.93
1850	0.01	1.87e-03	0.0	28,35,0	9.48e-06	0.02	1.22e-03	28,28,35	0.0	0	0.54	0.06	0.94
	0.05	0.04	0.0	35,35,0	5.50e-05	0.12	0.04	35,35,35			1.00	0.07	0.93
1851	0.01	4.03e-03	0.0	28,35,0	9.10e-05	0.02	3.57e-03	28,28,35	0.0	0	0.54	0.06	0.94
	0.05	0.04	0.0	35,35,0	8.94e-05	0.12	0.04	34,35,35			1.00	0.07	0.93
1852	0.01	4.03e-03	0.0	28,35,0	2.81e-04	0.01	4.50e-03	28,34,33	0.0	0	0.54	0.06	0.94
	0.05	0.03	0.0	35,33,0	2.08e-04	0.11	0.04	28,35,33			1.00	0.07	0.93
1853	7.03e-03	3.76e-03	0.0	34,35,0	2.81e-04	0.01	4.50e-03	28,34,33	0.0	0	0.54	0.06	0.94
	7.21e-03	9.38e-03	0.0	35,34,0	2.08e-04	0.02	4.95e-03	28,35,34			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.04	0.0		2.83e-04	0.12	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore	Incoll.	Stato
16	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.02	274.5	33	9.52e-03	201.6	11	0.02	-126.1	3.296e+04	24

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2336	4.91e-03	7.00e-03	0.0	36,33,0	1.48e-03	0.06	0.07	33,36,34	0.0	0	0.61	0.05	0.95
	2.49e-03	1.95e-03	0.0	36,35,0	7.23e-04	0.03	0.03	33,35,35			1.00	0.07	0.93
2337	0.01	9.14e-03	0.0	35,34,0	2.77e-03	0.06	0.07	33,36,34	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	36,33,0	1.52e-03	0.03	0.03	33,36,35			1.00	0.07	0.93
2338	0.02	0.02	0.0	36,33,0	2.77e-03	0.03	0.03	33,36,34	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	36,33,0	1.52e-03	0.07	0.01	33,36,33			1.00	0.07	0.93
2339	0.03	0.02	0.0	36,33,0	2.15e-03	0.03	0.04	34,36,33	0.0	0	0.61	0.05	0.95
	0.04	0.04	0.0	36,33,0	1.17e-03	0.11	0.02	34,36,33			1.00	0.07	0.93
2340	0.03	0.02	0.0	36,33,0	1.19e-03	0.03	0.04	34,36,33	0.0	0	0.61	0.05	0.95
	0.05	0.05	0.0	36,33,0	6.30e-04	0.12	0.02	34,36,33			1.00	0.07	0.93
2341	0.03	0.02	0.0	36,34,0	3.95e-04	0.03	0.04	34,36,34	0.0	0	0.61	0.05	0.95
	0.05	0.05	0.0	36,33,0	1.92e-04	0.13	0.02	34,36,33			1.00	0.07	0.93
2342	0.03	0.02	0.0	36,34,0	2.24e-04	0.03	0.04	33,36,34	0.0	0	0.61	0.05	0.95
	0.05	0.05	0.0	36,33,0	9.97e-05	0.13	0.02	33,36,33			1.00	0.07	0.93
2343	0.03	0.02	0.0	35,34,0	8.12e-04	0.03	0.04	33,35,34	0.0	0	0.61	0.05	0.95
	0.05	0.05	0.0	36,33,0	4.25e-04	0.12	0.02	33,36,33			1.00	0.07	0.93
2344	0.03	0.02	0.0	35,34,0	1.49e-03	0.03	0.04	33,35,34	0.0	0	0.61	0.05	0.95
	0.04	0.04	0.0	36,33,0	8.12e-04	0.10	0.02	33,36,33			1.00	0.07	0.93
2345	0.02	0.02	0.0	35,34,0	1.77e-03	0.03	0.03	33,35,33	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	36,33,0	9.92e-04	0.05	0.01	33,36,33			1.00	0.07	0.93
2346	0.01	8.42e-03	0.0	35,34,0	1.77e-03	0.02	0.02	33,35,36	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	33,36,0	9.92e-04	0.10	0.02	33,33,35			1.00	0.07	0.93
2347	5.66e-03	6.36e-03	0.0	36,33,0	1.28e-03	0.01	0.01	33,36,35	0.0	0	0.61	0.05	0.95
	0.07	0.05	0.0	33,36,0	7.43e-04	0.15	0.02	33,33,36			1.00	0.07	0.93
2348	5.66e-03	6.36e-03	0.0	36,33,0	7.22e-04	0.01	0.01	33,36,35	0.0	0	0.61	0.05	0.95
	0.07	0.05	0.0	33,36,0	4.08e-04	0.15	0.02	33,33,36			1.00	0.07	0.93
2897	4.91e-03	7.00e-03	0.0	36,33,0	1.48e-03	0.06	0.07	33,36,34	0.0	0	0.61	0.05	0.95
	2.49e-03	1.95e-03	0.0	36,35,0	7.23e-04	0.03	0.03	33,35,35			1.00	0.07	0.93
2898	0.01	9.14e-03	0.0	35,34,0	2.77e-03	0.06	0.07	33,36,34	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	36,33,0	1.52e-03	0.03	0.03	33,36,35			1.00	0.07	0.93
2899	0.02	0.02	0.0	36,33,0	2.77e-03	0.03	0.03	33,36,34	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	36,33,0	1.52e-03	0.07	0.01	33,36,33			1.00	0.07	0.93
2900	0.03	0.02	0.0	36,33,0	2.15e-03	0.03	0.04	34,36,33	0.0	0	0.61	0.05	0.95
	0.04	0.04	0.0	36,33,0	1.17e-03	0.11	0.02	34,36,33			1.00	0.07	0.93
2901	0.03	0.02	0.0	36,33,0	1.19e-03	0.03	0.04	34,36,33	0.0	0	0.61	0.05	0.95
	0.05	0.05	0.0	36,33,0	6.30e-04	0.12	0.02	34,36,33			1.00	0.07	0.93
2902	0.03	0.02	0.0	36,34,0	3.95e-04	0.03	0.04	34,36,34	0.0	0	0.61	0.05	0.95
	0.05	0.05	0.0	36,33,0	1.92e-04	0.13	0.02	34,36,33			1.00	0.07	0.93
2903	0.03	0.02	0.0	36,34,0	2.24e-04	0.03	0.04	33,36,34	0.0	0	0.61	0.05	0.95
	0.05	0.05	0.0	36,33,0	9.97e-05	0.13	0.02	33,36,33			1.00	0.07	0.93
2904	0.03	0.02	0.0	35,34,0	8.12e-04	0.03	0.04	33,35,34	0.0	0	0.61	0.05	0.95
	0.05	0.05	0.0	36,33,0	4.25e-04	0.12	0.02	33,36,33			1.00	0.07	0.93
2905	0.03	0.02	0.0	35,34,0	1.49e-03	0.03	0.04	33,35,34	0.0	0	0.61	0.05	0.95
	0.04	0.04	0.0	36,33,0	8.12e-04	0.10	0.02	33,36,33			1.00	0.07	0.93
2906	0.02	0.02	0.0	35,34,0	1.77e-03	0.03	0.03	33,35,33	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	36,33,0	9.92e-04	0.05	0.01	33,36,33			1.00	0.07	0.93
2907	0.01	8.42e-03	0.0	35,34,0	1.77e-03	0.02	0.02	33,35,36	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	33,36,0	9.92e-04	0.10	0.02	33,33,35			1.00	0.07	0.93
2908	5.66e-03	6.36e-03	0.0	36,33,0	1.28e-03	0.01	0.01	33,36,35	0.0	0	0.61	0.05	0.95
	0.07	0.05	0.0	33,36,0	7.43e-04	0.15	0.02	33,33,36			1.00	0.07	0.93
2909	5.66e-03	6.36e-03	0.0	36,33,0	7.22e-04	0.01	0.01	33,36,35	0.0	0	0.61	0.05	0.95
	0.07	0.05	0.0	33,36,0	4.08e-04	0.15	0.02	33,33,36			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.07	0.05	0.0		2.77e-03	0.15	0.07		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
18	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1847	0.0	2.41e-03	0.0	0,28,0	7.45e-05	3.09e-03	5.68e-03	38,28,28	0.0	0	0.0	0.0	0.0
	0.0	7.92e-03	0.0	0,28,0	7.16e-05	5.44e-03	4.45e-03	38,30,28			0.0	0.0	0.0
1848	2.83e-04	2.41e-03	0.0	35,28,0	7.45e-05	3.21e-03	5.68e-03	38,28,28	0.0	0	0.31	0.09	0.91
	0.04	0.03	0.0	28,28,0	1.23e-04	0.10	0.05	28,28,28			1.00	0.07	0.93
1849	2.83e-04	2.40e-03	0.0	35,2,0	5.82e-05	3.21e-03	5.63e-03	38,28,28	0.0	0	0.31	0.09	0.91
	0.07	0.05	0.0	28,28,0	1.90e-04	0.15	0.07	28,28,28			1.00	0.07	0.93
1850	1.91e-04	2.40e-03	0.0	35,2,0	9.53e-06	1.13e-03	3.48e-03	8,28,2	0.0	0	0.31	0.09	0.91
	0.07	0.05	0.0	28,28,0	1.93e-04	0.15	0.07	28,28,28			1.00	0.07	0.93
1851	2.83e-04	2.39e-03	0.0	35,2,0	6.16e-05	3.17e-03	5.56e-03	2,28,28	0.0	0	0.31	0.09	0.91
	0.07	0.05	0.0	28,28,0	1.93e-04	0.15	0.07	28,28,28			1.00	0.07	0.93
1852	2.83e-04	2.41e-03	0.0	35,28,0	7.87e-05	3.17e-03	5.85e-03	38,28,28	0.0	0	0.31	0.09	0.91
	0.04	0.03	0.0	28,28,0	1.30e-04	0.10	0.05	28,28,28			1.00	0.07	0.93
1853	0.0	2.41e-03	0.0	0,28,0	7.87e-05	3.17e-03	5.85e-03	38,28,28	0.0	0	0.0	0.0	0.0
	9.66e-04	7.69e-03	0.0	36,28,0	7.57e-05	6.22e-03	4.48e-03	38,30,28			1.00	0.07	0.93
2590	0.0	2.41e-03	0.0	0,28,0	7.45e-05	3.09e-03	5.68e-03	38,28,28	0.0	0	0.0	0.0	0.0
	0.0	7.92e-03	0.0	0,28,0	7.16e-05	5.44e-03	4.45e-03	38,30,28			0.0	0.0	0.0
2591	2.83e-04	2.41e-03	0.0	35,28,0	7.45e-05	3.21e-03	5.68e-03	38,28,28	0.0	0	0.31	0.09	0.91
	0.04	0.03	0.0	28,28,0	1.23e-04	0.10	0.05	28,28,28			1.00	0.07	0.93
2592	2.83e-04	2.40e-03	0.0	35,2,0	5.82e-05	3.21e-03	5.63e-03	38,28,28	0.0	0	0.31	0.09	0.91
	0.07	0.05	0.0	28,28,0	1.90e-04	0.15	0.07	28,28,28			1.00	0.07	0.93
2593	1.91e-04	2.40e-03	0.0	35,2,0	9.53e-06	1.13e-03	3.48e-03	8,28,2	0.0	0	0.31	0.09	0.91
	0.07	0.05	0.0	28,28,0	1.93e-04	0.15	0.07	28,28,28			1.00	0.07	0.93
2594	2.83e-04	2.39e-03	0.0	35,2,0	6.16e-05	3.17e-03	5.56e-03	2,28,28	0.0	0	0.31	0.09	0.91
	0.07	0.05	0.0	28,28,0	1.93e-04	0.15	0.07	28,28,28			1.00	0.07	0.93
2595	2.83e-04	2.41e-03	0.0	35,28,0	7.87e-05	3.17e-03	5.85e-03	38,28,28	0.0	0	0.31	0.09	0.91
	0.04	0.03	0.0	28,28,0	1.30e-04	0.10	0.05	28,28,28			1.00	0.07	0.93
2596	0.0	2.41e-03	0.0	0,28,0	7.87e-05	3.17e-03	5.85e-03	38,28,28	0.0	0	0.0	0.0	0.0
	9.66e-04	7.69e-03	0.0	36,28,0	7.57e-05	6.22e-03	4.48e-03	38,30,28			1.00	0.07	0.93

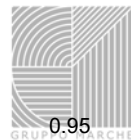
Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.07	0.05	0.0	1.93e-04	0.15	0.07	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
19	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0 cm	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.02	-288.5	18	0.01	-264.3	24	0.01	-139.0	-2.321e+04	8

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2441	0.04	0.03	0.0	45,43,0	1.16e-03	0.06	0.07	44,45,45	0.0	0	0.61	0.05	0.95
	0.12	0.09	0.0	43,45,0	6.76e-04	0.27	0.06	44,43,45			1.00	0.07	0.93
2442	0.04	0.03	0.0	45,43,0	1.16e-03	0.06	0.07	44,45,45	0.0	0	0.61	0.05	0.95
	0.12	0.09	0.0	45,43,0	6.76e-04	0.28	0.06	44,45,45			1.00	0.07	0.93
2443	4.16e-03	3.35e-03	0.0	46,45,0	3.58e-04	4.36e-03	5.33e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.12	0.09	0.0	45,43,0	3.02e-04	0.28	0.06	43,45,45			1.00	0.07	0.93
2444	4.20e-03	3.11e-03	0.0	46,43,0	3.99e-05	3.98e-03	4.63e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.11	0.08	0.0	46,44,0	1.23e-04	0.25	0.05	43,46,44			1.00	0.07	0.93
2445	4.20e-03	3.09e-03	0.0	46,43,0	6.72e-06	3.82e-03	4.44e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.16	0.13	0.0	46,44,0	4.78e-05	0.38	0.06	43,46,44			1.00	0.07	0.93
2446	4.19e-03	3.07e-03	0.0	45,44,0	1.80e-06	3.70e-03	4.30e-03	23,46,44	0.0	0	0.61	0.05	0.95
	0.18	0.14	0.0	45,44,0	1.06e-05	0.42	0.07	43,46,44			1.00	0.07	0.93
2447	4.19e-03	3.09e-03	0.0	45,44,0	6.81e-06	3.73e-03	4.36e-03	38,45,44	0.0	0	0.61	0.05	0.95
	0.18	0.14	0.0	45,44,0	1.77e-05	0.42	0.07	44,46,44			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



2448	4.17e-03	3.09e-03	0.0	45,44,0	2.90e-05	3.73e-03	4.36e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.16	0.12	0.0	45,44,0	6.47e-05	0.37	0.06	44,45,44			1.00	0.07	0.93
2449	5.60e-03	5.31e-03	0.0	45,44,0	1.97e-04	5.45e-03	7.40e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	45,44,0	1.24e-04	0.23	0.04	44,45,44			1.00	0.07	0.93
2450	5.60e-03	5.31e-03	0.0	45,44,0	1.69e-03	5.45e-03	7.40e-03	45,45,44	0.0	0	0.61	0.05	0.95
	4.99e-03	4.09e-03	0.0	44,45,0	8.84e-04	0.01	5.82e-03	45,44,44			1.00	0.07	0.93
2451	0.0	8.36e-04	0.0	44,45,0	1.69e-03	1.53e-03	2.19e-03	45,44,44	0.0	0	0.0	0.0	0.0
	4.99e-03	4.09e-03	0.0	44,45,0	8.84e-04	0.01	5.82e-03	45,44,44			1.00	0.07	0.93
3079	0.04	0.03	0.0	45,43,0	1.16e-03	0.06	0.07	44,45,45	0.0	0	0.61	0.05	0.95
	0.12	0.09	0.0	43,45,0	6.76e-04	0.27	0.06	44,43,45			1.00	0.07	0.93
3080	0.04	0.03	0.0	45,43,0	1.16e-03	0.06	0.07	44,45,45	0.0	0	0.61	0.05	0.95
	0.12	0.09	0.0	45,43,0	6.76e-04	0.28	0.06	44,45,45			1.00	0.07	0.93
3081	4.16e-03	3.35e-03	0.0	46,45,0	3.58e-04	4.36e-03	5.33e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.12	0.09	0.0	45,43,0	3.02e-04	0.28	0.06	43,45,45			1.00	0.07	0.93
3082	4.20e-03	3.11e-03	0.0	46,43,0	3.99e-05	3.98e-03	4.63e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.11	0.08	0.0	46,44,0	1.23e-04	0.25	0.05	43,46,44			1.00	0.07	0.93
3083	4.20e-03	3.09e-03	0.0	46,43,0	6.72e-06	3.82e-03	4.44e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.16	0.13	0.0	46,44,0	4.78e-05	0.38	0.06	43,46,44			1.00	0.07	0.93
3084	4.19e-03	3.07e-03	0.0	45,44,0	1.80e-06	3.70e-03	4.30e-03	23,46,44	0.0	0	0.61	0.05	0.95
	0.18	0.14	0.0	45,44,0	1.06e-05	0.42	0.07	43,46,44			1.00	0.07	0.93
3085	4.19e-03	3.09e-03	0.0	45,44,0	6.81e-06	3.73e-03	4.36e-03	38,45,44	0.0	0	0.61	0.05	0.95
	0.18	0.14	0.0	45,44,0	1.77e-05	0.42	0.07	44,46,44			1.00	0.07	0.93
3086	4.17e-03	3.09e-03	0.0	45,44,0	2.90e-05	3.73e-03	4.36e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.16	0.12	0.0	45,44,0	6.47e-05	0.37	0.06	44,45,44			1.00	0.07	0.93
3087	5.60e-03	5.31e-03	0.0	45,44,0	1.97e-04	5.45e-03	7.40e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	45,44,0	1.24e-04	0.23	0.04	44,45,44			1.00	0.07	0.93
3088	5.60e-03	5.31e-03	0.0	45,44,0	1.69e-03	5.45e-03	7.40e-03	45,45,44	0.0	0	0.61	0.05	0.95
	4.99e-03	4.09e-03	0.0	44,45,0	8.84e-04	0.01	5.82e-03	45,44,44			1.00	0.07	0.93
3089	0.0	8.36e-04	0.0	44,45,0	1.69e-03	1.53e-03	2.19e-03	45,44,44	0.0	0	0.0	0.0	0.0
	4.99e-03	4.09e-03	0.0	44,45,0	8.84e-04	0.01	5.82e-03	45,44,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.18	0.14	0.0		1.69e-03	0.42	0.07		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
20	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0 cm	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	-388.4	44	0.02	-223.5	24	0.03	-167.5	2.902e+04	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2391	0.02	0.02	0.0	45,44,0	1.70e-03	0.05	0.06	45,45,44	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	44,45,0	9.15e-04	0.13	0.05	45,44,44			1.00	0.07	0.93
2392	0.02	0.02	0.0	45,44,0	1.70e-03	0.05	0.06	45,45,44	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	46,44,0	9.15e-04	0.15	0.05	45,46,44			1.00	0.07	0.93
2393	4.09e-03	3.10e-03	0.0	45,44,0	3.96e-04	4.78e-03	5.47e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	46,44,0	2.80e-04	0.15	0.04	44,46,44			1.00	0.07	0.93
2394	4.19e-03	3.10e-03	0.0	45,44,0	3.09e-05	4.78e-03	5.47e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.12	0.09	0.0	45,44,0	8.50e-05	0.27	0.05	44,45,44			1.00	0.07	0.93
2395	4.19e-03	3.09e-03	0.0	45,44,0	5.80e-06	3.97e-03	4.59e-03	28,45,44	0.0	0	0.61	0.05	0.95
	0.15	0.12	0.0	45,44,0	2.58e-05	0.35	0.06	44,46,44			1.00	0.07	0.93
2396	4.19e-03	3.07e-03	0.0	45,44,0	4.15e-06	3.73e-03	4.33e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.15	0.12	0.0	45,44,0	3.99e-06	0.35	0.06	44,46,44			1.00	0.07	0.93
3029	0.02	0.02	0.0	45,44,0	1.70e-03	0.05	0.06	45,45,44	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	44,45,0	9.15e-04	0.13	0.05	45,44,44			1.00	0.07	0.93
3030	0.02	0.02	0.0	45,44,0	1.70e-03	0.05	0.06	45,45,44	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	46,44,0	9.15e-04	0.15	0.05	45,46,44			1.00	0.07	0.93
3031	4.09e-03	3.10e-03	0.0	45,44,0	3.96e-04	4.78e-03	5.47e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	46,44,0	2.80e-04	0.15	0.04	44,46,44			1.00	0.07	0.93
3032	4.19e-03	3.10e-03	0.0	45,44,0	3.09e-05	4.78e-03	5.47e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.12	0.09	0.0	45,44,0	8.50e-05	0.27	0.05	44,45,44			1.00	0.07	0.93
3033	4.19e-03	3.09e-03	0.0	45,44,0	5.80e-06	3.97e-03	4.59e-03	28,45,44	0.0	0	0.61	0.05	0.95
	0.15	0.12	0.0	45,44,0	2.58e-05	0.35	0.06	44,46,44			1.00	0.07	0.93
3034	4.19e-03	3.07e-03	0.0	45,44,0	4.15e-06	3.73e-03	4.33e-03	44,45,44	0.0	0	0.61	0.05	0.95
	0.15	0.12	0.0	45,44,0	3.99e-06	0.35	0.06	44,46,44			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.15	0.12	0.0	1.70e-03	0.35	0.06	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
21	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.08	daN -74.0	43	6.77e-03	daN 49.4	36	4.45e-03	daN -130.4	daN cm -3855.4	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2336	0.01	0.01	0.0	13,12,0	1.04e-03	0.04	0.04	13,13,12	0.0	0	0.61	0.05	0.95
	3.71e-03	1.84e-03	0.0	11,14,0	1.59e-03	0.17	0.17	13,11,14			1.00	0.07	0.93
2462	0.01	0.01	0.0	13,12,0	1.57e-03	0.04	0.04	12,13,12	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	1.59e-03	0.17	0.17	13,11,14			1.00	0.07	0.93
2481	4.01e-03	4.23e-03	0.0	13,12,0	1.57e-03	4.15e-03	5.26e-03	12,12,12	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	8.62e-04	0.12	0.02	12,13,12			1.00	0.07	0.93
2499	2.07e-03	1.02e-03	0.0	12,13,0	1.05e-03	4.15e-03	2.38e-03	12,12,13	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	6.02e-04	0.11	0.02	12,13,12			1.00	0.07	0.93
2560	2.07e-03	9.73e-04	0.0	12,13,0	5.66e-04	4.11e-03	2.30e-03	12,12,13	0.0	0	0.61	0.05	0.95
	0.04	0.04	0.0	13,12,0	3.38e-04	0.10	0.02	12,13,12			1.00	0.07	0.93
2581	0.0	6.96e-04	0.0	0,2,0	1.95e-04	1.69e-03	2.00e-03	12,11,12	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	13,12,0	1.38e-04	0.07	0.02	12,13,12			1.00	0.07	0.93
2952	0.01	0.01	0.0	13,12,0	1.57e-03	0.04	0.04	12,13,12	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	1.59e-03	0.17	0.17	13,11,14			1.00	0.07	0.93
2956	4.01e-03	4.23e-03	0.0	13,12,0	1.57e-03	4.15e-03	5.26e-03	12,12,12	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	8.62e-04	0.12	0.02	12,13,12			1.00	0.07	0.93
2960	2.07e-03	1.02e-03	0.0	12,13,0	1.05e-03	4.15e-03	2.38e-03	12,12,13	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	6.02e-04	0.11	0.02	12,13,12			1.00	0.07	0.93
2964	2.07e-03	9.73e-04	0.0	12,13,0	5.66e-04	4.11e-03	2.30e-03	12,12,13	0.0	0	0.61	0.05	0.95
	0.04	0.04	0.0	13,12,0	3.38e-04	0.10	0.02	12,13,12			1.00	0.07	0.93
2968	0.0	6.96e-04	0.0	0,2,0	1.95e-04	1.69e-03	2.00e-03	12,11,12	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	13,12,0	1.38e-04	0.07	0.02	12,13,12			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.04	0.0		1.59e-03	0.17	0.17		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
22	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.03	daN -181.2	33	7.24e-03	daN -80.2	33	0.03	daN -305.9	daN cm 3.213e+04	23

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2348	6.58e-03	7.03e-03	0.0	36,33,0	2.65e-04	5.87e-03	9.03e-03	34,36,33	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	34,35,0	1.46e-04	0.14	0.02	34,34,35			1.00	0.07	0.93
2349	6.58e-03	7.03e-03	0.0	36,33,0	2.65e-04	5.87e-03	9.03e-03	34,36,33	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	34,35,0	1.46e-04	0.14	0.02	34,34,35			1.00	0.07	0.93
2350	0.01	0.01	0.0	35,34,0	3.76e-05	0.02	0.02	35,35,34	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	34,35,0	2.26e-05	0.10	0.02	35,34,34			1.00	0.07	0.93
2351	0.02	0.02	0.0	35,34,0	6.65e-05	0.04	0.04	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	2.26e-05	0.05	0.02	35,34,34			1.00	0.07	0.93
2352	0.02	0.02	0.0	35,34,0	6.65e-05	0.04	0.04	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	9.16e-06	0.05	9.00e-03	34,34,35			1.00	0.07	0.93
2353	0.02	0.01	0.0	35,34,0	3.19e-05	0.02	0.03	34,35,34	0.0	0	0.61	0.05	0.95

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2354	0.02	7.91e-03	0.0	34,35,0	1.68e-05	0.03	9.00e-03	38,34,35			1.00	0.07	0.93
	0.01	8.74e-03	0.0	34,35,0	1.84e-05	0.01	0.02	34,34,35	0.0	0	0.61	0.05	0.95
	3.83e-03	6.07e-04	0.0	34,13,0	1.68e-05	7.72e-03	4.44e-03	38,34,34			1.00	0.07	0.93
2909	6.58e-03	7.03e-03	0.0	36,33,0	2.65e-04	5.87e-03	9.03e-03	34,36,33	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	34,35,0	1.46e-04	0.14	0.02	34,34,35			1.00	0.07	0.93
2910	6.58e-03	7.03e-03	0.0	36,33,0	2.65e-04	5.87e-03	9.03e-03	34,36,33	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	34,35,0	1.46e-04	0.14	0.02	34,34,35			1.00	0.07	0.93
2911	0.01	0.01	0.0	35,34,0	3.76e-05	0.02	0.02	35,35,34	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	34,35,0	2.26e-05	0.10	0.02	35,34,34			1.00	0.07	0.93
2912	0.02	0.02	0.0	35,34,0	6.65e-05	0.04	0.04	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	2.26e-05	0.05	0.02	35,34,34			1.00	0.07	0.93
2913	0.02	0.02	0.0	35,34,0	6.65e-05	0.04	0.04	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	9.16e-06	0.05	9.00e-03	34,34,35			1.00	0.07	0.93
2914	0.02	0.01	0.0	35,34,0	3.19e-05	0.02	0.03	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	7.91e-03	0.0	34,35,0	1.68e-05	0.03	9.00e-03	38,34,35			1.00	0.07	0.93
2915	0.01	8.74e-03	0.0	34,35,0	1.84e-05	0.01	0.02	34,34,35	0.0	0	0.61	0.05	0.95
	3.83e-03	6.07e-04	0.0	34,13,0	1.68e-05	7.72e-03	4.44e-03	38,34,34			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.06	0.04	0.0		2.65e-04	0.14	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
23	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.01	49.1	14	0.02	122.3	14	6.07e-03	-14.2	-4296.4	14

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2310	0.02	0.01	0.0	45,45,0	2.78e-04	0.03	0.04	43,45,45	0.0	0	0.15	0.18	0.82
	9.63e-04	4.92e-03	0.0	45,18,0	6.61e-05	6.34e-03	7.06e-03	44,45,45			1.00	0.07	0.93
2311	0.02	0.01	0.0	45,45,0	2.78e-04	0.03	0.04	43,45,45	0.0	0	0.15	0.18	0.82
	9.54e-03	8.91e-03	0.0	45,44,0	6.61e-05	0.02	7.16e-03	44,45,46			1.00	0.07	0.93
2312	4.64e-03	3.86e-03	0.0	44,44,0	2.47e-05	9.81e-03	0.01	44,44,44	0.0	0	0.15	0.18	0.82
	9.67e-03	8.91e-03	0.0	45,44,0	7.20e-06	0.02	7.16e-03	44,45,46			1.00	0.07	0.93
2313	0.02	0.01	0.0	45,45,0	2.80e-04	0.03	0.04	44,45,45	0.0	0	0.15	0.18	0.82
	9.67e-03	8.72e-03	0.0	45,44,0	6.69e-05	0.02	7.14e-03	44,45,46			1.00	0.07	0.93
2314	0.02	0.01	0.0	45,45,0	2.80e-04	0.03	0.04	44,45,45	0.0	0	0.15	0.18	0.82
	9.67e-04	4.94e-03	0.0	45,8,0	6.69e-05	6.39e-03	7.12e-03	44,45,45			1.00	0.07	0.93
2419	0.02	0.01	0.0	45,45,0	2.78e-04	0.03	0.04	43,45,45	0.0	0	0.15	0.18	0.82
	9.63e-04	4.92e-03	0.0	45,18,0	6.61e-05	6.34e-03	7.06e-03	44,45,45			1.00	0.07	0.93
2420	0.02	0.01	0.0	45,45,0	2.78e-04	0.03	0.04	43,45,45	0.0	0	0.15	0.18	0.82
	9.54e-03	8.91e-03	0.0	45,44,0	6.61e-05	0.02	7.16e-03	44,45,46			1.00	0.07	0.93
2421	4.64e-03	3.86e-03	0.0	44,44,0	2.47e-05	9.81e-03	0.01	44,44,44	0.0	0	0.15	0.18	0.82
	9.67e-03	8.91e-03	0.0	45,44,0	7.20e-06	0.02	7.16e-03	44,45,46			1.00	0.07	0.93
2422	0.02	0.01	0.0	45,45,0	2.80e-04	0.03	0.04	44,45,45	0.0	0	0.15	0.18	0.82
	9.67e-03	8.72e-03	0.0	45,44,0	6.69e-05	0.02	7.14e-03	44,45,46			1.00	0.07	0.93
2423	0.02	0.01	0.0	45,45,0	2.80e-04	0.03	0.04	44,45,45	0.0	0	0.15	0.18	0.82
	9.67e-04	4.94e-03	0.0	45,8,0	6.69e-05	6.39e-03	7.12e-03	44,45,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.01	0.0		2.80e-04	0.03	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
24	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	640.8	12	0.04	529.1	12	9.98e-03	-3368.2	-2.283e+04	46

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2685	3.01e-04	1.14e-03	0.0	2,2,0	3.45e-05	1.70e-03	1.92e-03	2,2,2	0.0	0	1.00	0.07	0.93
	0.0	8.52e-03	0.0	0,2,0	3.49e-05	1.08e-03	3.85e-03	2,44,2	0.0	0	0.0	0.0	0.0
2686	3.93e-04	1.14e-03	0.0	2,2,0	3.45e-05	2.07e-03	2.26e-03	2,2,2	0.0	0	1.00	0.07	0.93
	0.0	8.52e-03	0.0	0,2,0	1.55e-05	1.08e-03	3.85e-03	2,44,2	0.0	0	0.0	0.0	0.0
2687	3.93e-04	1.14e-03	0.0	2,8,0	1.54e-05	2.07e-03	2.26e-03	2,2,2	0.0	0	1.00	0.07	0.93
	0.0	0.01	0.0	0,2,0	1.52e-04	3.48e-04	4.04e-03	2,45,2	0.0	0	0.0	0.0	0.0
2688	4.11e-04	7.36e-04	0.0	46,18,0	1.52e-04	8.15e-04	3.91e-04	2,44,44	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	3.76e-04	2.51e-03	9.15e-03	2,2,2	0.0	0	0.0	0.0	0.0
2689	9.79e-04	2.27e-03	0.0	43,18,0	3.70e-04	2.90e-03	1.92e-03	2,43,44	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	3.76e-04	2.51e-03	9.15e-03	2,2,2	0.0	0	0.0	0.0	0.0
	9.79e-04	2.27e-03	0.0	43,18,0	3.70e-04	2.90e-03	1.92e-03	2,43,44	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	4.95e-03	0.06	0.0		3.76e-04	0.01	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
27	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.12	-750.7	18	0.09	1149.5	2	0.05	-2827.1	1.048e+05	23

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
212	0.0	0.02	0.0	0,2,0	2.00e-06	6.93e-04	7.50e-03	12,46,2	0.0	0	0.0	0.0	0.0
	0.0	2.84e-03	0.0	0,2,0	1.80e-06	6.70e-04	1.17e-03	12,46,44			0.0	0.0	0.0
213	0.0	0.02	0.0	0,2,0	2.00e-06	6.93e-04	7.50e-03	12,46,2	0.0	0	0.0	0.0	0.0
	0.0	2.84e-03	0.0	0,2,0	1.80e-06	6.70e-04	1.17e-03	12,46,44			0.0	0.0	0.0
214	0.0	0.02	0.0	0,18,0	1.63e-05	3.64e-05	5.48e-03	18,28,18	0.0	0	0.0	0.0	0.0
	2.30e-04	4.31e-04	0.0	13,18,0	1.60e-05	2.75e-04	1.71e-04	18,13,18			1.00	0.07	0.93
215	0.0	0.02	0.0	0,18,0	2.49e-05	5.72e-05	5.48e-03	18,28,18	0.0	0	0.0	0.0	0.0
	2.41e-04	6.36e-04	0.0	13,18,0	2.47e-05	2.91e-04	2.42e-04	18,13,18			1.00	0.07	0.93
216	0.0	0.01	0.0	0,2,0	3.27e-05	8.03e-05	4.93e-03	18,28,2	0.0	0	0.0	0.0	0.0
	3.33e-04	8.03e-04	0.0	13,18,0	3.25e-05	4.09e-04	3.08e-04	18,13,18			1.00	0.07	0.93
217	0.0	0.02	0.0	0,2,0	5.14e-05	8.03e-05	8.05e-03	18,28,2	0.0	0	0.0	0.0	0.0
	8.88e-04	1.03e-03	0.0	13,18,0	5.11e-05	1.08e-03	4.02e-04	18,13,18			1.00	0.07	0.93
218	0.0	0.02	0.0	0,2,0	5.14e-05	2.14e-04	8.05e-03	18,28,2	0.0	0	0.0	0.0	0.0
	8.88e-04	2.19e-03	0.0	13,18,0	5.11e-05	1.08e-03	1.02e-03	18,13,28			1.00	0.07	0.93
219	0.0	0.01	0.0	0,2,0	3.45e-05	2.14e-04	4.76e-03	18,28,2	0.0	0	0.0	0.0	0.0
	3.38e-04	2.19e-03	0.0	13,18,0	3.42e-05	5.03e-04	1.02e-03	18,28,28			1.00	0.07	0.93
680	0.0	0.02	0.0	0,2,0	2.24e-06	9.25e-04	9.46e-03	12,34,2	0.0	0	0.0	0.0	0.0
	4.51e-05	2.84e-03	0.0	45,2,0	1.88e-06	6.70e-04	1.17e-03	11,46,44			1.00	0.07	0.93
681	0.0	0.02	0.0	0,2,0	2.24e-06	9.25e-04	9.46e-03	12,34,2	0.0	0	0.0	0.0	0.0
	4.51e-05	2.84e-03	0.0	45,2,0	1.88e-06	6.70e-04	1.17e-03	11,46,44			1.00	0.07	0.93
682	0.0	0.02	0.0	0,18,0	1.63e-05	3.64e-05	5.48e-03	18,28,18	0.0	0	0.0	0.0	0.0
	2.30e-04	4.42e-04	0.0	13,18,0	1.60e-05	2.75e-04	1.71e-04	18,13,18			1.00	0.07	0.93
683	0.0	0.02	0.0	0,18,0	2.49e-05	5.72e-05	5.48e-03	18,28,18	0.0	0	0.0	0.0	0.0
	2.41e-04	1.03e-03	0.0	13,18,0	2.47e-05	2.91e-04	3.12e-04	18,13,18			1.00	0.07	0.93
684	0.0	0.01	0.0	0,2,0	3.27e-05	8.03e-05	4.93e-03	18,28,2	0.0	0	0.0	0.0	0.0
	3.98e-04	1.22e-03	0.0	13,18,0	3.25e-05	5.19e-04	4.33e-04	18,13,18			1.00	0.07	0.93
685	0.0	0.02	0.0	0,2,0	6.01e-05	8.03e-05	8.05e-03	18,28,2	0.0	0	0.0	0.0	0.0
	8.88e-04	1.22e-03	0.0	13,18,0	5.96e-05	1.08e-03	4.33e-04	18,13,18			1.00	0.07	0.93
686	0.0	0.02	0.0	0,2,0	6.01e-05	2.14e-04	8.05e-03	18,28,2	0.0	0	0.0	0.0	0.0
	9.41e-04	2.19e-03	0.0	13,18,0	5.96e-05	1.16e-03	1.02e-03	18,13,28			1.00	0.07	0.93
687	0.0	0.02	0.0	0,2,0	3.45e-05	2.14e-04	7.52e-03	18,28,2	0.0	0	0.0	0.0	0.0
	9.41e-04	2.19e-03	0.0	13,18,0	3.42e-05	1.16e-03	1.02e-03	18,13,28			1.00	0.07	0.93
1036	0.0	0.02	0.0	0,2,0	3.18e-06	1.52e-03	9.75e-03	12,38,2	0.0	0	0.0	0.0	0.0
	4.51e-05	6.13e-04	0.0	45,18,0	2.59e-06	2.36e-04	2.81e-04	12,44,44			1.00	0.07	0.93
1037	0.0	0.02	0.0	0,2,0	3.18e-06	1.52e-03	9.75e-03	12,38,2	0.0	0	0.0	0.0	0.0
	4.51e-05	6.13e-04	0.0	45,18,0	2.59e-06	2.36e-04	2.81e-04	12,44,44			1.00	0.07	0.93
1038	0.0	0.01	0.0	0,18,0	1.19e-05	2.42e-05	4.62e-03	12,28,18	0.0	0	0.0	0.0	0.0
	2.36e-05	2.03e-03	0.0	13,2,0	1.18e-05	1.08e-04	5.99e-04	12,46,28			1.00	0.07	0.93
1039	0.0	0.01	0.0	0,18,0	1.96e-05	3.05e-05	4.62e-03	24,28,18	0.0	0	0.0	0.0	0.0
	1.79e-04	3.07e-03	0.0	13,2,0	1.94e-05	2.34e-04	8.99e-04	24,13,2			1.00	0.07	0.93
1040	0.0	0.01	0.0	0,2,0	3.16e-05	3.98e-05	4.54e-03	18,2,2	0.0	0	0.0	0.0	0.0
	3.98e-04	3.27e-03	0.0	13,2,0	3.14e-05	5.19e-04	9.69e-04	18,13,2			1.00	0.07	0.93
1041	0.0	0.02	0.0	0,2,0	8.67e-05	1.08e-04	6.74e-03	18,28,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



2693	0.0	6.57e-03	0.0	0,2,0	3.67e-06	6.38e-04	3.22e-03	14,44,2	0.0	0	0.0	0.0	0.0	0.0
	4.74e-03	4.30e-03	0.0	2,2,0	3.54e-06	0.01	2.95e-03	14,2,2			1.00	0.07	0.93	
2694	0.0	0.02	0.0	0,2,0	9.62e-05	8.94e-04	7.56e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	5.39e-03	4.30e-03	0.0	2,2,0	9.39e-05	0.01	7.59e-03	2,2,2			1.00	0.07	0.93	
2695	0.0	0.02	0.0	0,2,0	2.12e-04	8.94e-04	7.56e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	5.39e-03	3.02e-03	0.0	2,2,0	2.03e-04	0.01	7.59e-03	2,2,2			1.00	0.07	0.93	
2696	0.0	6.48e-03	0.0	0,2,0	2.12e-04	1.42e-04	2.84e-03	2,36,2	0.0	0	0.0	0.0	0.0	0.0
	3.42e-04	3.23e-04	0.0	44,13,0	2.03e-04	5.07e-03	4.76e-03	2,2,2			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.02	0.02	0.0		2.12e-04	0.04	8.90e-03		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
31	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	6.13e-03	-9.0	24	0.16	374.4	2	0.04	-1570.8	6955.8	24

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
362	0.01	0.03	0.0	45,38,0	1.98e-05	0.02	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	5.59e-03	4.50e-03	0.0	45,44,0	6.97e-05	0.04	0.04	44,44,44			1.00	0.07	0.93
363	0.01	0.03	0.0	45,38,0	2.67e-05	0.02	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	8.22e-03	5.63e-03	0.0	44,45,0	6.97e-05	0.04	0.04	44,44,44			1.00	0.07	0.93
364	0.02	0.03	0.0	45,38,0	1.45e-04	0.04	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	8.22e-03	5.63e-03	0.0	44,45,0	3.62e-04	0.09	0.09	44,44,44			1.00	0.07	0.93
365	0.02	0.03	0.0	45,38,0	1.45e-04	0.04	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	2.82e-03	2.01e-03	0.0	44,45,0	3.62e-04	0.09	0.09	44,44,44			1.00	0.07	0.93
462	0.01	0.03	0.0	45,38,0	4.30e-05	0.02	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	5.59e-03	4.50e-03	0.0	45,44,0	6.97e-05	0.04	0.04	44,44,44			1.00	0.07	0.93
463	0.01	0.03	0.0	45,38,0	6.59e-05	0.02	0.03	38,45,44	0.0	0	0.95	0.03	0.97
	8.22e-03	5.63e-03	0.0	44,45,0	6.97e-05	0.04	0.04	44,44,44			1.00	0.07	0.93
464	0.02	0.03	0.0	45,38,0	1.45e-04	0.04	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	8.22e-03	5.63e-03	0.0	44,45,0	3.62e-04	0.09	0.09	44,44,44			1.00	0.07	0.93
465	0.02	0.03	0.0	45,38,0	1.45e-04	0.04	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	2.82e-03	2.01e-03	0.0	44,45,0	3.62e-04	0.09	0.09	44,44,44			1.00	0.07	0.93
1181	9.50e-03	0.03	0.0	45,2,0	4.30e-05	6.54e-03	0.01	44,45,38	0.0	0	0.95	0.03	0.97
	3.48e-03	2.86e-03	0.0	45,43,0	2.65e-05	0.01	0.01	44,45,45			1.00	0.07	0.93
1182	9.50e-03	0.03	0.0	45,2,0	6.59e-05	6.54e-03	0.01	38,45,38	0.0	0	0.95	0.03	0.97
	3.48e-03	2.86e-03	0.0	45,43,0	5.09e-05	0.01	0.01	38,45,45			1.00	0.07	0.93
1183	3.62e-03	0.03	0.0	45,2,0	6.59e-05	5.32e-03	0.01	38,44,2	0.0	0	0.95	0.03	0.97
	2.89e-03	2.50e-03	0.0	45,44,0	5.09e-05	7.51e-03	7.31e-03	38,45,44			1.00	0.07	0.93
1184	8.24e-05	0.03	0.0	45,2,0	2.73e-05	5.32e-03	0.01	44,44,2	0.0	0	0.95	0.03	0.97
	1.88e-03	2.22e-03	0.0	45,44,0	1.89e-05	7.51e-03	7.31e-03	44,45,44			1.00	0.07	0.93
1637	0.01	0.02	0.0	45,38,0	5.87e-05	0.02	0.02	45,45,44	0.0	0	0.95	0.03	0.97
	0.04	0.04	0.0	45,43,0	1.63e-04	0.11	0.06	45,45,44			1.00	0.07	0.93
1638	0.01	0.03	0.0	45,2,0	6.73e-05	0.02	0.03	45,45,44	0.0	0	0.95	0.03	0.97
	0.04	0.04	0.0	45,44,0	1.63e-04	0.11	0.06	45,45,44			1.00	0.07	0.93
1639	3.62e-03	0.05	0.0	45,2,0	2.41e-04	0.02	0.03	38,45,44	0.0	0	0.95	0.03	0.97
	0.04	0.04	0.0	45,44,0	2.05e-04	0.10	0.02	38,45,44			1.00	0.07	0.93
1640	0.0	0.05	0.0	0,2,0	2.41e-04	0.01	0.02	38,44,38	0.0	0	0.0	0.0	0.0
	3.38e-03	9.90e-03	0.0	45,38,0	2.05e-04	0.02	0.02	38,45,44			1.00	0.07	0.93
2227	0.01	0.02	0.0	45,38,0	1.16e-03	0.02	0.02	44,45,44	0.0	0	0.95	0.03	0.97
	0.13	0.11	0.0	45,44,0	7.18e-04	0.31	0.06	44,45,44			1.00	0.07	0.93
2228	0.01	0.03	0.0	45,2,0	1.16e-03	0.03	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	0.13	0.11	0.0	45,44,0	7.18e-04	0.31	0.07	44,45,45			1.00	0.07	0.93
2229	7.69e-03	0.05	0.0	45,2,0	7.00e-04	0.03	0.03	38,45,44	0.0	0	0.95	0.03	0.97
	0.07	0.06	0.0	45,44,0	6.52e-04	0.16	0.07	38,45,45			1.00	0.07	0.93
2230	0.0	0.05	0.0	0,2,0	2.41e-04	0.01	0.02	38,44,38	0.0	0	0.0	0.0	0.0
	3.38e-03	0.02	0.0	45,38,0	2.05e-04	0.02	0.03	38,45,45			1.00	0.07	0.93
2519	0.01	0.02	0.0	45,44,0	1.16e-03	0.01	0.02	44,44,38	0.0	0	0.95	0.03	0.97
	0.13	0.11	0.0	45,44,0	7.18e-04	0.31	0.05	44,45,44			1.00	0.07	0.93
2520	0.01	0.02	0.0	45,44,0	1.16e-03	0.03	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	0.13	0.11	0.0	45,44,0	7.18e-04	0.31	0.07	44,45,45			1.00	0.07	0.93
2521	7.69e-03	0.03	0.0	45,2,0	7.00e-04	0.03	0.03	38,45,44	0.0	0	0.95	0.03	0.97
	0.07	0.06	0.0	45,44,0	6.52e-04	0.16	0.07	38,45,45			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2522	0.0	0.03	0.0	0,2,0	6.16e-05	9.71e-03	0.02	38,45,44	0.0	0	0.0	0.0	0.0
	0.0	0.02	0.0	0,38,0	5.92e-05	0.02	0.03	44,45,45			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.13	0.11	0.0		1.16e-03	0.31	0.09		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
32	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	6.26e-03	9.4	12	0.16	-394.7	2	0.04	-1561.8	-7713.8	12

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
366	0.02	0.03	0.0	45,38,0	1.20e-04	0.03	0.02	44,45,44	0.0	0	0.95	0.03	0.97
	4.25e-03	3.07e-03	0.0	44,45,0	3.29e-04	0.08	0.08	44,44,44			1.00	0.07	0.93
367	0.02	0.03	0.0	45,2,0	1.20e-04	0.03	0.02	44,45,44	0.0	0	0.95	0.03	0.97
	8.67e-03	5.99e-03	0.0	44,45,0	3.29e-04	0.08	0.08	44,44,44			1.00	0.07	0.93
368	0.01	0.03	0.0	45,38,0	2.61e-05	0.02	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	8.67e-03	5.99e-03	0.0	44,45,0	7.00e-05	0.04	0.04	44,44,44			1.00	0.07	0.93
369	0.01	0.03	0.0	45,38,0	1.91e-05	0.02	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	5.58e-03	4.49e-03	0.0	45,44,0	7.00e-05	0.04	0.04	44,44,44			1.00	0.07	0.93
466	0.02	0.03	0.0	45,38,0	1.20e-04	0.03	0.02	44,45,44	0.0	0	0.95	0.03	0.97
	4.25e-03	3.07e-03	0.0	44,45,0	3.29e-04	0.08	0.08	44,44,44			1.00	0.07	0.93
467	0.02	0.03	0.0	45,2,0	1.20e-04	0.03	0.02	44,45,44	0.0	0	0.95	0.03	0.97
	8.67e-03	5.99e-03	0.0	44,45,0	3.29e-04	0.08	0.08	44,44,44			1.00	0.07	0.93
468	0.01	0.03	0.0	45,38,0	6.31e-05	0.02	0.03	38,45,44	0.0	0	0.95	0.03	0.97
	8.67e-03	5.99e-03	0.0	44,45,0	7.00e-05	0.04	0.04	44,44,44			1.00	0.07	0.93
469	0.01	0.03	0.0	45,38,0	4.14e-05	0.02	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	5.58e-03	4.49e-03	0.0	45,44,0	7.00e-05	0.04	0.04	44,44,44			1.00	0.07	0.93
1185	0.0	0.03	0.0	0,2,0	2.65e-05	3.74e-03	0.01	44,44,2	0.0	0	0.0	0.0	0.0
	2.22e-03	2.47e-03	0.0	45,44,0	1.84e-05	6.42e-03	6.18e-03	44,45,44			1.00	0.07	0.93
1186	3.38e-03	0.03	0.0	45,2,0	6.31e-05	4.43e-03	0.01	38,45,2	0.0	0	0.95	0.03	0.97
	3.24e-03	2.77e-03	0.0	45,44,0	4.88e-05	7.69e-03	6.18e-03	38,45,44			1.00	0.07	0.93
1187	9.15e-03	0.03	0.0	45,2,0	6.31e-05	6.34e-03	0.01	38,45,38	0.0	0	0.95	0.03	0.97
	3.55e-03	2.91e-03	0.0	45,43,0	4.88e-05	0.01	0.01	38,45,45			1.00	0.07	0.93
1188	9.15e-03	0.03	0.0	45,2,0	4.14e-05	6.34e-03	0.01	44,45,38	0.0	0	0.95	0.03	0.97
	3.55e-03	2.91e-03	0.0	45,43,0	2.55e-05	0.01	0.01	44,45,45			1.00	0.07	0.93
1641	0.0	0.05	0.0	0,2,0	2.49e-04	8.46e-03	0.02	38,44,38	0.0	0	0.0	0.0	0.0
	3.90e-03	0.01	0.0	45,38,0	2.15e-04	0.02	0.02	38,45,44			1.00	0.07	0.93
1642	3.38e-03	0.05	0.0	45,2,0	2.49e-04	0.02	0.03	38,45,44	0.0	0	0.95	0.03	0.97
	0.04	0.04	0.0	45,44,0	2.15e-04	0.10	0.02	38,45,44			1.00	0.07	0.93
1643	0.01	0.03	0.0	45,2,0	6.58e-05	0.02	0.03	45,45,44	0.0	0	0.95	0.03	0.97
	0.04	0.04	0.0	45,44,0	1.66e-04	0.11	0.06	45,45,44			1.00	0.07	0.93
1644	0.01	0.02	0.0	45,38,0	6.08e-05	0.02	0.02	45,45,44	0.0	0	0.95	0.03	0.97
	0.04	0.04	0.0	45,43,0	1.66e-04	0.11	0.06	45,45,44			1.00	0.07	0.93
2239	0.0	0.05	0.0	0,2,0	2.49e-04	9.25e-03	0.02	38,45,38	0.0	0	0.0	0.0	0.0
	3.90e-03	0.02	0.0	45,2,0	2.15e-04	0.02	0.02	38,45,45			1.00	0.07	0.93
2240	7.67e-03	0.05	0.0	45,2,0	7.28e-04	0.02	0.03	38,45,44	0.0	0	0.95	0.03	0.97
	0.07	0.06	0.0	45,44,0	6.79e-04	0.16	0.07	38,45,45			1.00	0.07	0.93
2241	0.01	0.03	0.0	45,2,0	1.13e-03	0.02	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	0.13	0.11	0.0	45,44,0	7.03e-04	0.31	0.07	44,45,45			1.00	0.07	0.93
2242	0.01	0.02	0.0	45,38,0	1.13e-03	0.02	0.02	44,45,44	0.0	0	0.95	0.03	0.97
	0.13	0.11	0.0	45,44,0	7.03e-04	0.31	0.06	44,45,44			1.00	0.07	0.93
2531	0.0	0.03	0.0	0,2,0	4.76e-05	9.25e-03	0.01	44,45,44	0.0	0	0.0	0.0	0.0
	0.0	0.02	0.0	0,2,0	4.86e-05	0.02	0.02	44,45,45			0.0	0.0	0.0
2532	7.67e-03	0.03	0.0	45,2,0	7.28e-04	0.02	0.03	38,45,44	0.0	0	0.95	0.03	0.97
	0.07	0.06	0.0	45,44,0	6.79e-04	0.16	0.07	38,45,45			1.00	0.07	0.93
2533	0.01	0.02	0.0	45,44,0	1.13e-03	0.02	0.03	44,45,44	0.0	0	0.95	0.03	0.97
	0.13	0.11	0.0	45,44,0	7.03e-04	0.31	0.07	44,45,45			1.00	0.07	0.93
2534	0.01	0.02	0.0	45,44,0	1.13e-03	0.01	0.02	44,44,38	0.0	0	0.95	0.03	0.97
	0.13	0.11	0.0	45,44,0	7.03e-04	0.31	0.05	44,45,44			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.13	0.11	0.0	1.13e-03	0.31	0.08	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
34	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.13	-206.8	26	0.11	-205.0	8	0.09	-969.5	1.734e+05	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
372	0.0	0.03	0.0	0,2,0	5.62e-04	9.57e-04	9.35e-03	45,45,2	0.0	0	0.0	0.0	0.0
	0.0	2.25e-03	0.0	0,2,0	3.43e-04	0.01	0.02	45,45,44			0.0	0.0	0.0
373	0.0	0.03	0.0	0,2,0	5.62e-04	9.57e-04	9.35e-03	45,45,2	0.0	0	0.0	0.0	0.0
	0.0	2.25e-03	0.0	0,2,0	3.43e-04	0.01	0.02	45,45,44			0.0	0.0	0.0
374	0.01	0.01	0.0	45,44,0	2.84e-04	0.03	0.03	43,45,44	0.0	0	0.95	0.03	0.97
	2.47e-03	3.56e-03	0.0	45,24,0	1.59e-04	6.53e-03	3.04e-03	43,45,44			1.00	0.07	0.93
375	0.01	0.01	0.0	45,44,0	2.84e-04	0.03	0.03	43,45,44	0.0	0	0.95	0.03	0.97
	2.47e-03	3.56e-03	0.0	45,24,0	1.59e-04	6.53e-03	3.04e-03	43,45,44			1.00	0.07	0.93
791	0.0	0.03	0.0	0,2,0	5.62e-04	9.57e-04	0.01	45,45,2	0.0	0	0.0	0.0	0.0
	1.77e-05	2.25e-03	0.0	45,2,0	3.43e-04	0.01	0.02	45,45,44			1.00	0.07	0.93
792	0.0	0.03	0.0	0,2,0	5.62e-04	9.57e-04	0.01	45,45,2	0.0	0	0.0	0.0	0.0
	1.77e-05	2.25e-03	0.0	45,2,0	3.43e-04	0.01	0.02	45,45,44			1.00	0.07	0.93
793	0.01	0.01	0.0	45,44,0	4.35e-04	0.03	0.03	43,45,44	0.0	0	0.95	0.03	0.97
	2.47e-03	3.56e-03	0.0	45,24,0	2.64e-04	6.53e-03	3.04e-03	43,45,44			1.00	0.07	0.93
794	0.01	0.01	0.0	45,44,0	4.35e-04	0.03	0.03	43,45,44	0.0	0	0.95	0.03	0.97
	2.47e-03	3.56e-03	0.0	45,24,0	2.64e-04	6.53e-03	3.04e-03	43,45,44			1.00	0.07	0.93
1191	0.0	0.03	0.0	0,2,0	4.72e-04	5.63e-03	0.01	43,44,38	0.0	0	0.0	0.0	0.0
	7.43e-04	5.40e-04	0.0	44,45,0	2.88e-04	6.57e-03	6.26e-03	43,44,44			1.00	0.07	0.93
1192	0.0	0.03	0.0	0,2,0	4.72e-04	5.63e-03	0.01	43,44,38	0.0	0	0.0	0.0	0.0
	7.43e-04	5.40e-04	0.0	44,45,0	2.88e-04	6.57e-03	6.26e-03	43,44,44			1.00	0.07	0.93
1193	0.02	0.02	0.0	45,44,0	4.35e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	1.58e-03	2.57e-03	0.0	13,24,0	2.64e-04	7.78e-03	7.31e-03	43,45,44			1.00	0.07	0.93
1194	0.02	0.02	0.0	45,44,0	4.35e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	1.58e-03	2.57e-03	0.0	13,24,0	2.64e-04	7.78e-03	7.31e-03	43,45,44			1.00	0.07	0.93
1647	0.03	0.04	0.0	45,44,0	1.94e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	3.03e-03	2.97e-03	0.0	45,44,0	1.20e-04	0.03	0.03	43,44,44			1.00	0.07	0.93
1648	0.03	0.04	0.0	45,44,0	1.94e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	3.03e-03	2.97e-03	0.0	45,44,0	1.20e-04	0.03	0.03	43,44,44			1.00	0.07	0.93
1649	0.06	0.05	0.0	45,44,0	2.32e-04	0.05	0.03	43,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	45,44,0	1.63e-04	0.04	0.03	43,45,44			1.00	0.07	0.93
1650	0.06	0.05	0.0	45,44,0	2.32e-04	0.05	0.03	43,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	45,44,0	1.63e-04	0.04	0.03	43,45,44			1.00	0.07	0.93
2251	0.03	0.04	0.0	45,44,0	7.59e-05	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	3.03e-03	2.97e-03	0.0	45,44,0	7.42e-05	0.03	0.03	43,44,44			1.00	0.07	0.93
2252	0.03	0.04	0.0	45,44,0	7.59e-05	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	3.03e-03	2.97e-03	0.0	45,44,0	7.42e-05	0.03	0.03	43,44,44			1.00	0.07	0.93
2259	0.06	0.05	0.0	45,44,0	3.08e-03	0.07	0.06	44,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.85e-03	0.05	0.03	44,45,44			1.00	0.07	0.93
2260	0.06	0.05	0.0	45,44,0	3.08e-03	0.07	0.06	44,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.85e-03	0.05	0.03	44,45,44			1.00	0.07	0.93
2551	0.03	0.03	0.0	45,44,0	3.08e-03	0.07	0.06	44,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.85e-03	0.05	0.02	44,45,44			1.00	0.07	0.93
2552	0.03	0.03	0.0	45,44,0	3.08e-03	0.07	0.06	44,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.85e-03	0.05	0.02	44,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.06	0.05	0.0		3.08e-03	0.07	0.06		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
35	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



ok 0.16 217.5 14 0.09 204.2 18 0.15 -469.4 -2.269e+04

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
356	9.61e-03	0.01	0.0	45,44,0	2.56e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	2.87e-03	3.55e-03	0.0	45,44,0	1.45e-04	7.33e-03	1.61e-03	43,45,44			1.00	0.07	0.93
357	9.61e-03	0.01	0.0	45,44,0	2.56e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	2.87e-03	3.55e-03	0.0	45,44,0	1.45e-04	7.33e-03	1.61e-03	43,45,44			1.00	0.07	0.93
783	9.61e-03	0.01	0.0	45,44,0	3.70e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	2.87e-03	3.55e-03	0.0	45,44,0	2.24e-04	7.33e-03	2.54e-03	43,45,44			1.00	0.07	0.93
784	9.61e-03	0.01	0.0	45,44,0	3.70e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	2.87e-03	3.55e-03	0.0	45,44,0	2.24e-04	7.33e-03	2.54e-03	43,45,44			1.00	0.07	0.93
1175	0.02	0.02	0.0	45,44,0	3.70e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	1.54e-03	2.58e-03	0.0	25,12,0	2.24e-04	7.38e-03	6.97e-03	43,45,44			1.00	0.07	0.93
1176	0.02	0.02	0.0	45,44,0	3.70e-04	0.02	0.02	43,45,44	0.0	0	0.95	0.03	0.97
	1.54e-03	2.58e-03	0.0	25,12,0	2.24e-04	7.38e-03	6.97e-03	43,45,44			1.00	0.07	0.93
1631	0.05	0.05	0.0	45,44,0	2.19e-04	0.05	0.03	43,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.44e-04	0.05	0.03	43,45,44			1.00	0.07	0.93
1632	0.05	0.05	0.0	45,44,0	2.19e-04	0.05	0.03	43,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.44e-04	0.05	0.03	43,45,44			1.00	0.07	0.93
2209	0.05	0.05	0.0	45,44,0	2.37e-03	0.05	0.05	44,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.43e-03	0.05	0.03	44,45,44			1.00	0.07	0.93
2210	0.05	0.05	0.0	45,44,0	2.37e-03	0.05	0.05	44,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.43e-03	0.05	0.03	44,45,44			1.00	0.07	0.93
2501	0.03	0.02	0.0	45,44,0	2.37e-03	0.05	0.05	44,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.43e-03	0.05	0.02	44,45,44			1.00	0.07	0.93
2502	0.03	0.02	0.0	45,44,0	2.37e-03	0.05	0.05	44,45,44	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	45,44,0	1.43e-03	0.05	0.02	44,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.05	0.0		2.37e-03	0.05	0.05		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
36	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	5.92e-03	daN 51.9	12	5.36e-03	daN 75.2	12	3.63e-03	daN -361.0	daN cm 5341.6	25

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1531	0.0	6.23e-03	0.0	0,2,0	1.36e-04	5.72e-04	3.23e-03	2,38,2	0.0	0	0.0	0.0	0.0
	0.01	8.33e-03	0.0	38,38,0	1.33e-04	0.03	4.33e-03	2,38,38			1.00	0.07	0.93
1532	2.52e-04	6.23e-03	0.0	44,2,0	1.36e-04	5.72e-04	3.23e-03	2,38,2	0.0	0	0.83	0.04	0.96
	0.01	8.33e-03	0.0	38,38,0	1.33e-04	0.03	4.33e-03	2,38,38			1.00	0.07	0.93
1533	3.06e-04	5.87e-04	0.0	38,38,0	5.25e-05	3.76e-04	7.14e-04	2,44,38	0.0	0	0.83	0.04	0.96
	0.01	1.62e-03	0.0	38,23,0	4.99e-05	0.02	4.00e-03	2,38,38			1.00	0.07	0.93
1534	3.06e-04	2.86e-03	0.0	38,38,0	3.93e-05	3.99e-04	1.75e-03	2,38,38	0.0	0	0.83	0.04	0.96
	0.02	2.72e-03	0.0	38,44,0	3.76e-05	0.04	4.51e-03	2,38,38			1.00	0.07	0.93
1535	0.0	0.01	0.0	0,38,0	1.25e-05	2.26e-03	6.92e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	8.02e-03	0.0	38,44,0	1.24e-05	0.06	7.04e-03	2,38,38			1.00	0.07	0.93
1536	0.0	0.01	0.0	0,38,0	5.66e-06	2.26e-03	6.93e-03	38,2,2	0.0	0	0.0	0.0	0.0
	0.03	8.02e-03	0.0	38,44,0	6.80e-06	0.06	7.04e-03	38,38,38			1.00	0.07	0.93
1537	0.0	0.01	0.0	0,38,0	1.34e-05	2.26e-03	6.93e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	8.02e-03	0.0	38,44,0	1.32e-05	0.06	7.03e-03	8,38,38			1.00	0.07	0.93
1538	2.97e-04	2.88e-03	0.0	38,38,0	4.13e-05	3.99e-04	1.75e-03	2,38,38	0.0	0	0.83	0.04	0.96
	0.02	2.73e-03	0.0	38,44,0	3.96e-05	0.04	4.51e-03	2,38,38			1.00	0.07	0.93
1539	2.97e-04	5.94e-04	0.0	38,38,0	5.52e-05	3.82e-04	7.20e-04	2,44,38	0.0	0	0.83	0.04	0.96
	0.01	1.60e-03	0.0	38,11,0	5.25e-05	0.02	4.00e-03	2,38,38			1.00	0.07	0.93
1540	2.54e-04	6.18e-03	0.0	44,2,0	1.41e-04	5.73e-04	3.22e-03	2,38,2	0.0	0	0.83	0.04	0.96
	0.01	8.49e-03	0.0	38,38,0	1.37e-04	0.03	4.36e-03	2,38,38			1.00	0.07	0.93
1541	0.0	6.18e-03	0.0	0,2,0	1.41e-04	5.73e-04	3.22e-03	2,38,2	0.0	0	0.0	0.0	0.0
	0.01	8.49e-03	0.0	38,38,0	1.37e-04	0.03	4.36e-03	2,38,38			1.00	0.07	0.93
2087	0.0	6.84e-03	0.0	0,2,0	1.36e-04	5.72e-04	3.65e-03	2,38,38	0.0	0	0.0	0.0	0.0
	0.02	8.33e-03	0.0	38,38,0	1.33e-04	0.03	4.33e-03	2,38,38			1.00	0.07	0.93
2088	4.09e-04	6.84e-03	0.0	44,2,0	1.36e-04	5.72e-04	3.65e-03	2,38,38	0.0	0	0.83	0.04	0.96

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	0.02	8.33e-03	0.0	38,38,0	1.33e-04	0.03	4.33e-03	2,38,38			1.00	0.07	0.93
2089	4.09e-04	5.87e-04	0.0	44,38,0	5.79e-05	5.40e-04	7.14e-04	2,44,38	0.0	0	0.83	0.04	0.96
	0.01	2.84e-03	0.0	38,8,0	5.62e-05	0.02	4.35e-03	2,38,38			1.00	0.07	0.93
2090	3.06e-04	3.65e-03	0.0	38,38,0	5.52e-05	3.99e-04	1.85e-03	2,38,38	0.0	0	0.83	0.04	0.96
	0.02	9.31e-03	0.0	38,38,0	5.32e-05	0.04	5.38e-03	2,38,38			1.00	0.07	0.93
2091	0.0	0.01	0.0	0,38,0	5.52e-05	2.26e-03	6.92e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	38,38,0	5.32e-05	0.06	7.94e-03	2,38,44			1.00	0.07	0.93
2092	0.0	0.01	0.0	0,38,0	3.34e-05	2.26e-03	6.93e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	38,38,0	3.29e-05	0.06	7.94e-03	2,38,44			1.00	0.07	0.93
2093	0.0	0.01	0.0	0,38,0	5.79e-05	2.26e-03	6.93e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	38,38,0	5.59e-05	0.06	7.92e-03	2,38,44			1.00	0.07	0.93
2094	2.97e-04	3.69e-03	0.0	38,38,0	5.79e-05	3.99e-04	1.87e-03	2,38,38	0.0	0	0.83	0.04	0.96
	0.02	9.35e-03	0.0	38,38,0	5.59e-05	0.04	5.38e-03	2,38,38			1.00	0.07	0.93
2095	4.11e-04	5.94e-04	0.0	44,38,0	5.95e-05	5.42e-04	7.20e-04	2,44,38	0.0	0	0.83	0.04	0.96
	0.01	2.92e-03	0.0	38,18,0	5.78e-05	0.02	4.33e-03	2,38,38			1.00	0.07	0.93
2096	4.11e-04	6.80e-03	0.0	44,2,0	1.41e-04	5.73e-04	3.63e-03	2,38,38	0.0	0	0.83	0.04	0.96
	0.02	8.49e-03	0.0	38,38,0	1.37e-04	0.03	4.36e-03	2,38,38			1.00	0.07	0.93
2097	0.0	6.80e-03	0.0	0,2,0	1.41e-04	5.73e-04	3.63e-03	2,38,38	0.0	0	0.0	0.0	0.0
	0.02	8.49e-03	0.0	38,38,0	1.37e-04	0.03	4.36e-03	2,38,38			1.00	0.07	0.93
2848	0.0	6.84e-03	0.0	0,2,0	3.33e-05	4.68e-04	3.65e-03	23,38,38	0.0	0	0.0	0.0	0.0
	0.02	5.42e-03	0.0	38,44,0	3.24e-05	0.03	3.29e-03	23,38,44			1.00	0.07	0.93
2849	4.09e-04	6.84e-03	0.0	44,2,0	5.79e-05	5.40e-04	3.65e-03	2,44,38	0.0	0	0.83	0.04	0.96
	0.02	5.42e-03	0.0	38,44,0	5.62e-05	0.03	3.74e-03	2,38,38			1.00	0.07	0.93
2850	4.09e-04	5.42e-04	0.0	44,38,0	5.79e-05	5.40e-04	6.85e-04	2,44,38	0.0	0	0.83	0.04	0.96
	5.89e-03	2.84e-03	0.0	38,8,0	5.62e-05	0.01	4.35e-03	2,38,38			1.00	0.07	0.93
2851	1.28e-04	3.65e-03	0.0	44,38,0	5.52e-05	3.31e-04	1.85e-03	2,44,38	0.0	0	0.83	0.04	0.96
	6.15e-03	9.31e-03	0.0	44,38,0	5.32e-05	0.02	5.38e-03	2,44,38			1.00	0.07	0.93
2852	0.0	0.01	0.0	0,38,0	5.52e-05	1.21e-03	5.43e-03	2,45,44	0.0	0	0.0	0.0	0.0
	0.01	0.02	0.0	44,38,0	5.32e-05	0.03	7.94e-03	2,44,44			1.00	0.07	0.93
2853	0.0	0.01	0.0	0,38,0	3.34e-05	1.21e-03	5.44e-03	2,45,44	0.0	0	0.0	0.0	0.0
	0.01	0.02	0.0	44,38,0	3.29e-05	0.03	7.94e-03	2,44,44			1.00	0.07	0.93
2854	0.0	0.01	0.0	0,38,0	5.79e-05	1.21e-03	5.44e-03	2,45,44	0.0	0	0.0	0.0	0.0
	0.01	0.02	0.0	44,38,0	5.59e-05	0.03	7.92e-03	2,44,44			1.00	0.07	0.93
2855	1.19e-04	3.69e-03	0.0	44,38,0	5.79e-05	3.31e-04	1.87e-03	2,44,38	0.0	0	0.83	0.04	0.96
	6.10e-03	9.35e-03	0.0	44,38,0	5.59e-05	0.02	5.38e-03	2,44,38			1.00	0.07	0.93
2856	4.11e-04	5.56e-04	0.0	44,38,0	5.95e-05	5.42e-04	6.91e-04	2,44,38	0.0	0	0.83	0.04	0.96
	5.92e-03	2.92e-03	0.0	38,18,0	5.78e-05	0.01	4.33e-03	2,38,38			1.00	0.07	0.93
2857	4.11e-04	6.80e-03	0.0	44,2,0	5.95e-05	5.42e-04	3.63e-03	2,44,38	0.0	0	0.83	0.04	0.96
	0.02	5.35e-03	0.0	38,44,0	5.78e-05	0.03	3.72e-03	2,38,38			1.00	0.07	0.93
2858	0.0	6.80e-03	0.0	0,2,0	3.39e-05	4.58e-04	3.63e-03	11,38,38	0.0	0	0.0	0.0	0.0
	0.02	5.35e-03	0.0	38,44,0	3.30e-05	0.03	3.25e-03	11,38,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.02	0.0		1.41e-04	0.06	7.94e-03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
37	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb			
ok	0.02	153.0	8	4.01e-03	61.1	8	0.02	255.0	-2.781e+04	8			
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2408	0.02	0.01	0.0	46,45,0	4.61e-04	0.02	0.03	43,46,45	0.0	0	0.61	0.05	0.95
	6.68e-03	6.81e-03	0.0	45,46,0	2.70e-04	0.02	0.01	44,45,45			1.00	0.07	0.93
2409	0.02	0.01	0.0	46,45,0	4.61e-04	0.02	0.03	43,46,45	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	45,44,0	2.70e-04	0.03	0.01	44,45,45			1.00	0.07	0.93
2410	5.80e-03	4.25e-03	0.0	45,45,0	3.69e-04	8.26e-03	9.09e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.02	0.03	0.0	45,44,0	2.15e-04	0.06	0.01	43,45,44			1.00	0.07	0.93
2411	4.24e-03	3.10e-03	0.0	45,44,0	1.61e-04	7.43e-03	7.56e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	9.26e-05	0.07	0.01	43,45,44			1.00	0.07	0.93
2412	4.23e-03	3.09e-03	0.0	45,44,0	2.46e-05	7.43e-03	4.82e-03	44,46,38	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	1.44e-05	0.07	0.01	44,45,44			1.00	0.07	0.93
2413	4.24e-03	3.11e-03	0.0	45,44,0	1.73e-04	7.38e-03	7.35e-03	44,46,43	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	1.02e-04	0.07	0.01	44,45,44			1.00	0.07	0.93
2414	6.30e-03	4.60e-03	0.0	46,44,0	3.51e-04	8.60e-03	9.47e-03	44,46,43	0.0	0	0.61	0.05	0.95

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



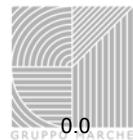
	0.02	0.02	0.0	45,44,0	2.10e-04	0.06	0.01	44,45,44			1.00	0.07	0.93
2415	0.02	0.02	0.0	46,43,0	3.80e-04	0.03	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,44,0	2.27e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2416	0.02	0.02	0.0	46,43,0	3.80e-04	0.03	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,44,0	2.27e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
3046	0.02	0.01	0.0	46,45,0	4.61e-04	0.02	0.03	43,46,45	0.0	0	0.61	0.05	0.95
	6.68e-03	6.81e-03	0.0	45,46,0	2.70e-04	0.02	0.01	44,45,45			1.00	0.07	0.93
3047	0.02	0.01	0.0	46,45,0	4.61e-04	0.02	0.03	43,46,45	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	45,44,0	2.70e-04	0.03	0.01	44,45,45			1.00	0.07	0.93
3048	5.80e-03	4.25e-03	0.0	45,45,0	3.69e-04	8.26e-03	9.09e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.02	0.03	0.0	45,44,0	2.15e-04	0.06	0.01	43,45,44			1.00	0.07	0.93
3049	4.24e-03	3.10e-03	0.0	45,44,0	1.61e-04	7.43e-03	7.56e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	9.26e-05	0.07	0.01	43,45,44			1.00	0.07	0.93
3050	4.23e-03	3.09e-03	0.0	45,44,0	2.46e-05	7.43e-03	4.82e-03	44,46,38	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	1.44e-05	0.07	0.01	44,45,44			1.00	0.07	0.93
3051	4.24e-03	3.11e-03	0.0	45,44,0	1.73e-04	7.38e-03	7.35e-03	44,46,43	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	1.02e-04	0.07	0.01	44,45,44			1.00	0.07	0.93
3052	6.30e-03	4.60e-03	0.0	46,44,0	3.51e-04	8.60e-03	9.47e-03	44,46,43	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	45,44,0	2.10e-04	0.06	0.01	44,45,44			1.00	0.07	0.93
3053	0.02	0.02	0.0	46,43,0	3.80e-04	0.03	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,44,0	2.27e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
3054	0.02	0.02	0.0	46,43,0	3.80e-04	0.03	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,44,0	2.27e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.03	0.0		4.61e-04	0.07	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
38	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.06	540.8	12	0.02	404.0	12	0.12	-1.192e+04	-6.701e+05	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
256	0.0	0.06	0.0	0,38,0	4.77e-05	0.02	0.04	2,2,2	0.0	0	0.0	0.0	0.0
	1.52e-03	7.07e-04	0.0	38,38,0	2.24e-05	0.01	0.01	18,38,38			1.00	0.07	0.93
257	0.0	0.06	0.0	0,38,0	5.09e-05	0.02	0.04	8,2,2	0.0	0	0.0	0.0	0.0
	1.62e-03	1.80e-03	0.0	38,38,0	3.83e-05	0.01	0.01	8,38,38			1.00	0.07	0.93
258	0.0	0.05	0.0	0,2,0	5.09e-05	8.84e-03	0.03	8,2,2	0.0	0	0.0	0.0	0.0
	1.62e-03	1.84e-03	0.0	38,8,0	3.83e-05	5.00e-03	4.85e-03	8,2,2			1.00	0.07	0.93
259	0.0	0.04	0.0	0,2,0	1.97e-05	1.84e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	1.12e-03	2.40e-03	0.0	23,8,0	1.71e-05	2.61e-03	1.56e-03	8,18,38			1.00	0.07	0.93
260	0.0	3.28e-03	0.0	0,8,0	5.44e-06	1.88e-04	1.34e-03	8,38,8	0.0	0	0.0	0.0	0.0
	9.83e-04	2.40e-03	0.0	23,8,0	5.21e-06	2.00e-03	1.05e-03	8,24,8			1.00	0.07	0.93
261	0.0	2.49e-03	0.0	0,18,0	2.10e-06	5.95e-04	1.46e-03	24,2,18	0.0	0	0.0	0.0	0.0
	1.50e-03	7.43e-04	0.0	11,26,0	1.82e-06	1.95e-03	3.25e-04	24,11,24			1.00	0.07	0.93
262	0.0	0.03	0.0	0,2,0	6.46e-06	7.31e-03	0.02	18,2,2	0.0	0	0.0	0.0	0.0
	2.24e-03	7.43e-04	0.0	12,26,0	3.49e-06	5.40e-03	3.67e-03	12,8,2			1.00	0.07	0.93
263	0.0	0.03	0.0	0,2,0	1.50e-05	7.31e-03	0.02	12,2,2	0.0	0	0.0	0.0	0.0
	2.24e-03	6.65e-04	0.0	12,23,0	1.23e-05	5.40e-03	3.67e-03	12,8,2			1.00	0.07	0.93
264	0.0	0.03	0.0	0,2,0	1.50e-05	7.01e-03	0.02	12,2,2	0.0	0	0.0	0.0	0.0
	6.08e-04	3.31e-04	0.0	12,24,0	1.23e-05	3.09e-03	2.78e-03	12,2,2			1.00	0.07	0.93
265	0.0	0.02	0.0	0,2,0	7.72e-06	1.48e-03	9.23e-03	12,2,2	0.0	0	0.0	0.0	0.0
	4.39e-05	2.77e-04	0.0	25,8,0	7.17e-06	1.78e-04	2.32e-04	12,28,28			1.00	0.07	0.93
266	0.0	0.06	0.0	0,2,0	1.40e-05	6.07e-03	0.03	18,2,2	0.0	0	0.0	0.0	0.0
	2.75e-03	1.06e-03	0.0	2,18,0	1.03e-05	0.01	0.01	18,2,2			1.00	0.07	0.93
267	0.0	0.06	0.0	0,2,0	5.50e-05	0.01	0.03	8,2,2	0.0	0	0.0	0.0	0.0
	2.75e-03	1.06e-03	0.0	2,18,0	4.39e-05	0.01	0.01	8,2,2			1.00	0.07	0.93
268	0.0	0.04	0.0	0,2,0	5.50e-05	0.01	0.03	8,2,2	0.0	0	0.0	0.0	0.0
	2.48e-04	6.75e-04	0.0	12,18,0	4.39e-05	4.70e-03	4.81e-03	8,2,2			1.00	0.07	0.93
432	0.0	0.06	0.0	0,38,0	4.77e-05	0.02	0.04	2,2,2	0.0	0	0.0	0.0	0.0
	1.52e-03	7.07e-04	0.0	38,38,0	2.24e-05	0.01	0.01	18,38,38			1.00	0.07	0.93
433	0.0	0.06	0.0	0,38,0	9.27e-05	0.02	0.04	8,2,2	0.0	0	0.0	0.0	0.0
	1.62e-03	1.80e-03	0.0	38,38,0	8.72e-05	0.01	0.01	8,38,38			1.00	0.07	0.93
434	0.0	0.05	0.0	0,2,0	9.27e-05	8.84e-03	0.03	8,2,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2099	0.0	0.03	0.0	0,2,0	9.85e-05	1.02e-03	9.90e-03	2,30,2	0.0	0	0.0	0.0	0.0	0.0
	0.01	7.87e-03	0.0	38,38,0	9.40e-05	0.02	4.16e-03	2,38,8			1.00	0.07	0.93	
2100	0.0	0.02	0.0	0,2,0	6.34e-05	3.74e-04	7.08e-03	2,44,2	0.0	0	0.0	0.0	0.0	0.0
	7.56e-03	6.77e-03	0.0	38,38,0	6.20e-05	0.02	3.20e-03	2,38,38			1.00	0.07	0.93	
2101	2.11e-04	3.18e-03	0.0	43,18,0	1.59e-05	3.74e-04	1.26e-03	23,44,38	0.0	0	0.96	0.03	0.97	
	4.28e-03	6.58e-03	0.0	38,38,0	1.58e-05	0.01	2.88e-03	23,38,38			1.00	0.07	0.93	
2102	2.11e-04	3.86e-03	0.0	43,2,0	1.29e-05	6.18e-04	1.98e-03	8,18,2	0.0	0	0.96	0.03	0.97	
	2.12e-03	4.25e-03	0.0	38,8,0	1.23e-05	3.96e-03	2.12e-03	8,44,38			1.00	0.07	0.93	
2103	0.0	0.02	0.0	0,2,0	2.97e-05	3.22e-03	9.73e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.07e-03	3.01e-03	0.0	38,8,0	2.87e-05	3.27e-03	1.41e-03	2,23,8			1.00	0.07	0.93	
2104	0.0	0.02	0.0	0,2,0	8.49e-05	3.34e-03	9.73e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.12e-03	3.01e-03	0.0	38,8,0	8.25e-05	3.27e-03	1.41e-03	2,23,8			1.00	0.07	0.93	
2105	0.0	0.02	0.0	0,2,0	8.49e-05	3.34e-03	8.95e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.47e-03	2.39e-03	0.0	38,8,0	8.25e-05	3.49e-03	8.95e-04	2,38,8			1.00	0.07	0.93	
2106	0.0	0.01	0.0	0,2,0	9.80e-05	3.72e-04	4.89e-03	18,38,2	0.0	0	0.0	0.0	0.0	0.0
	2.47e-03	1.98e-03	0.0	38,8,0	9.68e-05	3.49e-03	6.42e-04	18,38,8			1.00	0.07	0.93	
2107	0.0	6.51e-03	0.0	0,2,0	1.41e-04	3.72e-04	2.43e-03	18,38,2	0.0	0	0.0	0.0	0.0	0.0
	4.89e-03	1.51e-03	0.0	38,8,0	1.41e-04	8.03e-03	8.90e-04	18,38,38			1.00	0.07	0.93	
2108	0.0	0.02	0.0	0,2,0	1.41e-04	7.48e-04	9.00e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	6.65e-03	8.15e-04	0.0	38,13,0	1.41e-04	0.01	2.79e-03	18,38,28			1.00	0.07	0.93	
2109	0.0	0.02	0.0	0,2,0	2.63e-04	1.93e-03	9.70e-03	2,38,2	0.0	0	0.0	0.0	0.0	0.0
	6.65e-03	8.00e-04	0.0	38,24,0	2.61e-04	0.01	2.79e-03	2,38,28			1.00	0.07	0.93	
2110	0.0	0.02	0.0	0,2,0	2.63e-04	1.93e-03	9.70e-03	2,38,2	0.0	0	0.0	0.0	0.0	0.0
	2.38e-03	7.57e-04	0.0	38,13,0	2.61e-04	3.78e-03	1.21e-03	2,38,8			1.00	0.07	0.93	
2858	0.0	0.03	0.0	0,2,0	2.59e-05	2.15e-03	0.01	2,28,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	6.47e-03	0.0	38,44,0	2.42e-05	0.03	9.88e-03	8,38,43			1.00	0.07	0.93	
2859	0.0	0.03	0.0	0,2,0	9.85e-05	2.15e-03	0.01	2,28,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	6.47e-03	0.0	38,44,0	9.40e-05	0.03	9.88e-03	2,38,43			1.00	0.07	0.93	
2860	0.0	0.02	0.0	0,2,0	9.85e-05	1.02e-03	8.68e-03	2,30,2	0.0	0	0.0	0.0	0.0	0.0
	0.01	4.35e-03	0.0	38,44,0	9.40e-05	0.02	2.61e-03	2,38,44			1.00	0.07	0.93	
2861	0.0	0.01	0.0	0,2,0	6.34e-05	3.74e-04	4.54e-03	2,44,2	0.0	0	0.0	0.0	0.0	0.0
	7.56e-03	1.93e-03	0.0	38,44,0	6.20e-05	0.01	2.38e-03	2,38,44			1.00	0.07	0.93	
2862	2.11e-04	2.13e-03	0.0	43,2,0	8.03e-06	3.74e-04	1.17e-03	23,44,38	0.0	0	0.96	0.03	0.97	
	4.28e-03	8.50e-04	0.0	38,8,0	8.03e-06	7.98e-03	1.23e-03	23,38,38			1.00	0.07	0.93	
2863	2.11e-04	3.73e-03	0.0	43,2,0	7.25e-06	6.18e-04	1.98e-03	23,18,2	0.0	0	0.96	0.03	0.97	
	2.12e-03	2.68e-04	0.0	38,13,0	7.06e-06	3.41e-03	6.71e-04	23,38,38			1.00	0.07	0.93	
2864	0.0	0.01	0.0	0,2,0	2.97e-05	3.22e-03	7.67e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.07e-03	2.69e-04	0.0	38,13,0	2.87e-05	2.87e-03	5.16e-04	2,38,28			1.00	0.07	0.93	
2865	0.0	0.01	0.0	0,2,0	8.49e-05	3.34e-03	7.67e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.12e-03	4.21e-04	0.0	38,11,0	8.25e-05	3.23e-03	8.40e-04	2,38,12			1.00	0.07	0.93	
2866	0.0	0.01	0.0	0,2,0	8.49e-05	3.34e-03	7.13e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.47e-03	4.21e-04	0.0	38,11,0	8.25e-05	3.49e-03	8.40e-04	2,38,12			1.00	0.07	0.93	
2867	0.0	5.45e-03	0.0	0,2,0	8.98e-05	3.31e-04	2.29e-03	18,18,2	0.0	0	0.0	0.0	0.0	0.0
	2.47e-03	3.90e-04	0.0	38,14,0	8.93e-05	3.49e-03	1.71e-04	18,38,12			1.00	0.07	0.93	
2868	0.0	6.51e-03	0.0	0,2,0	1.41e-04	1.37e-04	2.43e-03	18,23,2	0.0	0	0.0	0.0	0.0	0.0
	1.34e-03	7.50e-04	0.0	38,18,0	1.41e-04	2.15e-03	5.64e-04	18,38,18			1.00	0.07	0.93	
2869	0.0	0.02	0.0	0,2,0	1.41e-04	7.48e-04	8.62e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	9.97e-04	8.00e-04	0.0	38,24,0	1.41e-04	2.68e-03	2.79e-03	18,28,28			1.00	0.07	0.93	
2870	0.0	0.02	0.0	0,2,0	2.63e-04	1.93e-03	8.62e-03	2,38,2	0.0	0	0.0	0.0	0.0	0.0
	7.40e-04	8.00e-04	0.0	45,24,0	2.61e-04	2.68e-03	2.79e-03	2,28,28			1.00	0.07	0.93	
2871	0.0	0.01	0.0	0,2,0	2.63e-04	1.93e-03	6.43e-03	2,38,2	0.0	0	0.0	0.0	0.0	0.0
	7.40e-04	7.31e-04	0.0	45,18,0	2.61e-04	1.14e-03	1.21e-03	2,45,8			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.02	0.06	0.0		2.63e-04	0.03	0.04		0.0					

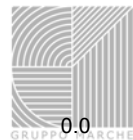
Setto	Mat.	N. strati	Spessore	Incoll.	Stato
39	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.26	-183.6	28	0.47	652.5	2	0.02	-342.7	-9473.5	28

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
385	0.0	0.01	0.0	0,38,0	1.18e-04	6.58e-05	4.20e-03	28,12,38	0.0	0	0.0	0.0	0.0
	0.0	1.57e-03	0.0	0,44,0	1.17e-04	1.54e-04	5.35e-04	28,18,38			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



406	0.0	0.01	0.0	0,38,0	1.18e-04	6.58e-05	4.20e-03	28,12,38	0.0	0	0.0	0.0	0.0
	0.0	1.57e-03	0.0	0,44,0	1.17e-04	1.54e-04	5.35e-04	28,18,38			0.0	0.0	0.0
804	0.0	0.02	0.0	0,2,0	1.18e-04	6.58e-05	6.07e-03	28,12,2	0.0	0	0.0	0.0	0.0
	2.19e-04	1.57e-03	0.0	35,44,0	1.17e-04	2.68e-04	5.35e-04	28,36,38			1.00	0.07	0.93
825	0.0	0.02	0.0	0,2,0	1.18e-04	6.58e-05	6.07e-03	28,12,2	0.0	0	0.0	0.0	0.0
	2.19e-04	1.57e-03	0.0	35,44,0	1.17e-04	2.68e-04	5.35e-04	28,36,38			1.00	0.07	0.93
1204	0.0	0.02	0.0	0,2,0	9.43e-05	6.23e-05	9.04e-03	28,8,2	0.0	0	0.0	0.0	0.0
	2.19e-04	3.61e-04	0.0	35,44,0	9.32e-05	2.68e-04	1.68e-04	28,36,38			1.00	0.07	0.93
1225	0.0	0.02	0.0	0,2,0	9.43e-05	6.23e-05	9.04e-03	28,8,2	0.0	0	0.0	0.0	0.0
	2.19e-04	3.61e-04	0.0	35,44,0	9.32e-05	2.68e-04	1.68e-04	28,36,38			1.00	0.07	0.93
1658	0.0	0.03	0.0	0,2,0	9.91e-05	3.70e-04	0.01	38,18,2	0.0	0	0.0	0.0	0.0
	1.52e-04	2.76e-03	0.0	45,28,0	9.77e-05	4.43e-04	1.20e-03	38,2,2			1.00	0.07	0.93
1679	0.0	0.03	0.0	0,2,0	9.91e-05	3.70e-04	0.01	38,18,2	0.0	0	0.0	0.0	0.0
	1.52e-04	2.76e-03	0.0	45,28,0	9.77e-05	4.43e-04	1.20e-03	38,2,2			1.00	0.07	0.93
2232	0.0	2.78e-03	0.0	0,2,0	5.74e-04	5.43e-04	1.56e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	44,0,0	5.60e-04	0.02	1.12e-04	2,44,2			1.00	0.07	0.93
2266	0.0	4.15e-03	0.0	0,2,0	5.74e-04	5.43e-04	1.64e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	0.0	0.0	38,0,0	5.60e-04	0.03	4.38e-04	2,38,2			1.00	0.07	0.93
2272	0.0	9.18e-03	0.0	0,2,0	1.24e-03	2.42e-04	3.60e-03	2,18,2	0.0	0	0.0	0.0	0.0
	0.03	5.16e-04	0.0	38,35,0	1.22e-03	0.03	4.38e-04	2,38,2			1.00	0.07	0.93
2282	0.0	0.03	0.0	0,2,0	1.24e-03	1.10e-03	0.01	2,18,2	0.0	0	0.0	0.0	0.0
	0.01	2.76e-03	0.0	44,28,0	1.22e-03	0.02	1.20e-03	2,44,2			1.00	0.07	0.93
2310	0.0	0.03	0.0	0,2,0	9.91e-05	1.10e-03	0.01	38,18,2	0.0	0	0.0	0.0	0.0
	3.56e-03	2.76e-03	0.0	46,28,0	9.77e-05	4.57e-03	1.20e-03	38,46,2			1.00	0.07	0.93
2419	0.0	0.01	0.0	0,2,0	3.43e-05	1.10e-03	6.51e-03	2,18,2	0.0	0	0.0	0.0	0.0
	3.56e-03	1.56e-03	0.0	46,34,0	3.18e-05	4.57e-03	6.25e-04	2,46,24			1.00	0.07	0.93
2457	0.0	0.01	0.0	0,2,0	1.24e-03	1.10e-03	6.51e-03	2,18,2	0.0	0	0.0	0.0	0.0
	0.01	1.56e-03	0.0	44,34,0	1.22e-03	0.02	6.25e-04	2,44,24			1.00	0.07	0.93
2476	0.0	9.18e-03	0.0	0,2,0	1.24e-03	2.42e-04	3.60e-03	2,18,2	0.0	0	0.0	0.0	0.0
	0.03	5.16e-04	0.0	38,35,0	1.22e-03	0.03	4.38e-04	2,38,2			1.00	0.07	0.93
2489	0.0	4.15e-03	0.0	0,2,0	5.74e-04	5.43e-04	1.64e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	0.0	0.0	38,0,0	5.60e-04	0.03	4.38e-04	2,38,2			1.00	0.07	0.93
2524	0.0	2.78e-03	0.0	0,2,0	5.74e-04	5.43e-04	1.56e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	44,0,0	5.60e-04	0.02	1.12e-04	2,44,2			1.00	0.07	0.93

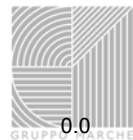
Nodo V. 127 V. 128 V. 545 V. 129 V. 130 V. 131 V. D.26
 0.03 0.03 0.0 1.24e-03 0.03 0.01 0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
40	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes. V. piede Azione V Rif. cmb V. testa Azione V Rif. cmb V. h-d Azione N Azione M Rif. cmb
 ok 0.06 394.7 12 0.03 292.6 8 0.01 -4831.0 2.145e+04 40

Nodo V. 127 V. 128 V. 545 Rif. cmb V. 129 V. 130 V. 131 Rif. cmb V. D.26 Rif. cmb Fac. B-A Qsup. A Qsup. B													
268	0.0	0.02	0.0	0,2,0	1.62e-05	1.89e-03	9.32e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.53e-03	0.0	0,2,0	1.48e-05	7.59e-04	1.07e-03	8,38,2			0.0	0.0	0.0
269	0.0	0.02	0.0	0,2,0	1.62e-05	1.89e-03	9.32e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.53e-03	0.0	0,2,0	1.48e-05	7.59e-04	1.07e-03	8,38,2			0.0	0.0	0.0
270	0.0	0.02	0.0	0,2,0	1.14e-05	5.54e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	3.42e-04	1.42e-03	0.0	33,2,0	1.02e-05	2.97e-03	3.13e-03	23,2,2			1.00	0.07	0.93
271	0.0	0.02	0.0	0,2,0	1.15e-05	5.54e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	3.42e-04	7.69e-04	0.0	33,2,0	1.02e-05	2.97e-03	3.13e-03	23,2,2			1.00	0.07	0.93
272	0.0	0.02	0.0	0,2,0	1.15e-05	5.47e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	2.19e-04	1.46e-03	0.0	33,2,0	9.77e-06	2.68e-03	2.84e-03	12,2,2			1.00	0.07	0.93
273	0.0	0.02	0.0	0,2,0	8.70e-06	1.03e-03	7.05e-03	24,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.46e-03	0.0	0,2,0	8.43e-06	1.99e-04	5.27e-04	24,33,2			0.0	0.0	0.0
715	0.0	0.02	0.0	0,2,0	1.99e-05	1.89e-03	9.32e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.12e-03	0.0	0,2,0	1.91e-05	1.04e-03	1.21e-03	8,28,2			0.0	0.0	0.0
716	0.0	0.02	0.0	0,2,0	1.99e-05	1.89e-03	9.32e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.13e-03	0.0	0,2,0	1.91e-05	1.04e-03	1.21e-03	8,28,2			0.0	0.0	0.0
717	0.0	0.02	0.0	0,2,0	1.79e-05	5.54e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	5.48e-04	3.13e-03	0.0	33,2,0	1.73e-05	2.97e-03	3.13e-03	24,2,2			1.00	0.07	0.93
718	0.0	0.02	0.0	0,2,0	1.79e-05	5.54e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	5.48e-04	1.70e-03	0.0	33,2,0	1.73e-05	2.97e-03	3.13e-03	24,2,2			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



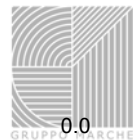
719	0.0	0.02	0.0	0,2,0	1.76e-05	5.47e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0	0.0
	4.48e-04	3.22e-03	0.0	33,2,0	1.70e-05	2.68e-03	2.84e-03	12,2,2			1.00	0.07	0.93	
720	0.0	0.02	0.0	0,2,0	8.70e-06	1.03e-03	7.05e-03	24,2,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.22e-03	0.0	0,2,0	8.43e-06	8.53e-04	1.21e-03	24,2,2			0.0	0.0	0.0	0.0
1087	0.0	0.02	0.0	0,2,0	2.93e-05	8.82e-04	8.09e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.12e-03	0.0	0,2,0	2.91e-05	1.04e-03	1.21e-03	8,28,2			0.0	0.0	0.0	0.0
1088	0.0	0.02	0.0	0,2,0	2.93e-05	8.82e-04	8.09e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.13e-03	0.0	0,2,0	2.91e-05	1.04e-03	1.21e-03	8,28,2			0.0	0.0	0.0	0.0
1089	0.0	0.02	0.0	0,2,0	2.80e-05	2.74e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0	0.0
	5.48e-04	3.13e-03	0.0	33,2,0	2.75e-05	1.72e-03	2.09e-03	24,33,2			1.00	0.07	0.93	
1090	0.0	0.02	0.0	0,2,0	2.80e-05	2.80e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0	0.0
	5.48e-04	1.70e-03	0.0	33,2,0	2.75e-05	1.72e-03	2.12e-03	24,33,2			1.00	0.07	0.93	
1091	0.0	0.02	0.0	0,2,0	2.77e-05	2.80e-03	0.01	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	4.48e-04	3.22e-03	0.0	33,2,0	2.69e-05	1.71e-03	2.12e-03	8,2,2			1.00	0.07	0.93	
1092	0.0	0.02	0.0	0,2,0	7.83e-06	6.61e-04	6.52e-03	11,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.34e-04	3.22e-03	0.0	45,2,0	7.72e-06	1.27e-03	1.21e-03	11,40,2			1.00	0.07	0.93	
1475	0.0	0.02	0.0	0,2,0	5.32e-05	2.04e-04	6.38e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	7.10e-04	1.77e-03	0.0	38,8,0	5.26e-05	1.02e-03	8.59e-04	8,40,8			1.00	0.07	0.93	
1476	0.0	0.02	0.0	0,2,0	5.32e-05	3.12e-04	6.38e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	7.10e-04	2.16e-03	0.0	38,2,0	5.26e-05	1.06e-03	8.59e-04	8,40,8			1.00	0.07	0.93	
1477	0.0	0.02	0.0	0,2,0	3.89e-05	2.74e-03	8.70e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.63e-03	2.16e-03	0.0	38,2,0	3.80e-05	3.57e-03	9.50e-04	18,38,18			1.00	0.07	0.93	
1478	0.0	0.02	0.0	0,2,0	3.96e-05	2.84e-03	8.70e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.63e-03	1.42e-03	0.0	38,18,0	3.87e-05	3.57e-03	9.50e-04	8,38,18			1.00	0.07	0.93	
1479	0.0	0.02	0.0	0,2,0	3.96e-05	2.84e-03	8.65e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.34e-03	2.22e-03	0.0	38,18,0	3.87e-05	2.94e-03	8.84e-04	8,38,18			1.00	0.07	0.93	
1480	0.0	0.01	0.0	0,2,0	7.83e-06	3.15e-04	5.22e-03	11,2,2	0.0	0	0.0	0.0	0.0	0.0
	7.54e-04	2.22e-03	0.0	11,18,0	7.72e-06	1.27e-03	8.24e-04	11,40,18			1.00	0.07	0.93	
2110	0.0	0.01	0.0	0,2,0	7.36e-05	2.83e-04	4.53e-03	8,18,2	0.0	0	0.0	0.0	0.0	0.0
	2.69e-03	6.31e-04	0.0	38,11,0	7.28e-05	3.66e-03	2.77e-04	8,38,40			1.00	0.07	0.93	
2111	0.0	0.01	0.0	0,2,0	7.36e-05	5.19e-04	4.53e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.69e-03	6.31e-04	0.0	38,11,0	7.28e-05	3.66e-03	4.70e-04	8,38,8			1.00	0.07	0.93	
2112	0.0	0.01	0.0	0,2,0	7.38e-05	3.58e-03	7.80e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.29e-03	1.25e-03	0.0	38,18,0	7.19e-05	3.57e-03	1.04e-03	18,38,23			1.00	0.07	0.93	
2113	0.0	0.01	0.0	0,2,0	7.38e-05	3.59e-03	7.83e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.14e-03	1.25e-03	0.0	38,18,0	7.19e-05	3.57e-03	1.04e-03	18,38,23			1.00	0.07	0.93	
2114	0.0	0.01	0.0	0,2,0	7.23e-05	3.59e-03	7.83e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.65e-03	1.15e-03	0.0	38,18,0	7.06e-05	3.57e-03	8.85e-04	8,38,8			1.00	0.07	0.93	
2115	0.0	9.93e-03	0.0	0,2,0	5.19e-06	5.82e-04	3.86e-03	11,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.65e-03	8.07e-04	0.0	38,23,0	5.15e-06	3.57e-03	4.03e-04	11,38,24			1.00	0.07	0.93	
2871	0.0	6.10e-03	0.0	0,2,0	7.36e-05	2.83e-04	2.46e-03	8,18,2	0.0	0	0.0	0.0	0.0	0.0
	2.69e-03	3.13e-04	0.0	38,25,0	7.28e-05	3.66e-03	1.96e-04	8,38,40			1.00	0.07	0.93	
2872	0.0	6.10e-03	0.0	0,2,0	7.36e-05	5.19e-04	2.46e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.69e-03	4.36e-04	0.0	38,25,0	7.28e-05	3.66e-03	3.10e-04	8,38,8			1.00	0.07	0.93	
2873	0.0	9.45e-03	0.0	0,2,0	7.38e-05	3.58e-03	7.07e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.29e-03	7.70e-04	0.0	38,25,0	7.19e-05	2.99e-03	1.04e-03	18,38,23			1.00	0.07	0.93	
2874	0.0	9.45e-03	0.0	0,2,0	7.38e-05	3.59e-03	7.07e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.14e-03	7.70e-04	0.0	38,25,0	7.19e-05	3.18e-03	1.04e-03	18,38,23			1.00	0.07	0.93	
2875	0.0	9.04e-03	0.0	0,2,0	7.23e-05	3.59e-03	6.93e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.65e-03	7.09e-04	0.0	38,25,0	7.06e-05	3.57e-03	8.85e-04	8,38,8			1.00	0.07	0.93	
2876	0.0	5.78e-03	0.0	0,2,0	4.91e-06	5.82e-04	2.67e-03	11,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.65e-03	5.61e-04	0.0	38,25,0	4.82e-06	3.57e-03	3.69e-04	11,38,38			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	2.69e-03	0.02	0.0		7.38e-05	5.54e-03	0.01		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
41	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.06	194.8	12	9.49e-03	46.1	2	0.04	-1052.3	-2.167e+04	13

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
403	0.0	0.02	0.0	0,18,0	1.85e-05	3.37e-03	8.91e-03	8,45,38	0.0	0	0.0	0.0	0.0
	4.44e-03	3.54e-03	0.0	45,44,0	1.76e-05	0.01	7.13e-03	8,45,45			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



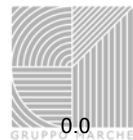
404	0.0	0.02	0.0	0,18,0	1.85e-05	4.62e-03	9.50e-03	8,45,44	0.0	0	0.0	0.0	0.0	0.0
	7.16e-03	5.62e-03	0.0	45,44,0	1.76e-05	0.02	7.13e-03	8,45,45			1.00	0.07	0.93	
405	0.0	0.02	0.0	0,8,0	9.57e-06	4.62e-03	9.50e-03	12,45,44	0.0	0	0.0	0.0	0.0	0.0
	7.16e-03	5.62e-03	0.0	45,44,0	9.34e-06	0.02	7.09e-03	12,45,45			1.00	0.07	0.93	
406	0.0	0.02	0.0	0,8,0	9.04e-06	3.49e-03	8.91e-03	45,44,38	0.0	0	0.0	0.0	0.0	0.0
	4.38e-03	3.50e-03	0.0	45,44,0	7.17e-06	0.01	7.09e-03	45,45,45			1.00	0.07	0.93	
822	0.0	0.02	0.0	0,18,0	3.16e-05	3.37e-03	8.91e-03	8,45,38	0.0	0	0.0	0.0	0.0	0.0
	0.01	7.78e-03	0.0	45,45,0	3.11e-05	0.02	0.01	8,45,45			1.00	0.07	0.93	
823	0.0	0.02	0.0	0,18,0	3.16e-05	4.62e-03	9.50e-03	8,45,44	0.0	0	0.0	0.0	0.0	0.0
	0.02	0.02	0.0	45,45,0	3.11e-05	0.05	0.01	8,45,45			1.00	0.07	0.93	
824	0.0	0.02	0.0	0,8,0	1.56e-05	4.62e-03	9.50e-03	18,45,44	0.0	0	0.0	0.0	0.0	0.0
	0.02	0.02	0.0	45,45,0	1.49e-05	0.05	0.01	18,45,45			1.00	0.07	0.93	
825	0.0	0.02	0.0	0,8,0	1.56e-05	3.49e-03	8.91e-03	18,44,38	0.0	0	0.0	0.0	0.0	0.0
	0.01	7.77e-03	0.0	45,45,0	1.49e-05	0.02	0.01	18,45,45			1.00	0.07	0.93	
1222	0.0	0.02	0.0	0,18,0	3.84e-05	1.58e-03	7.18e-03	8,44,28	0.0	0	0.0	0.0	0.0	0.0
	0.01	8.08e-03	0.0	44,44,0	3.77e-05	0.02	0.01	8,44,44			1.00	0.07	0.93	
1223	0.0	0.02	0.0	0,18,0	3.84e-05	1.81e-03	7.18e-03	8,44,28	0.0	0	0.0	0.0	0.0	0.0
	0.02	0.02	0.0	44,44,0	3.77e-05	0.05	0.01	8,44,44			1.00	0.07	0.93	
1224	0.0	0.01	0.0	0,38,0	2.16e-05	1.81e-03	6.44e-03	18,44,44	0.0	0	0.0	0.0	0.0	0.0
	0.02	0.02	0.0	44,44,0	2.04e-05	0.05	0.01	18,44,45			1.00	0.07	0.93	
1225	0.0	0.01	0.0	0,38,0	2.16e-05	1.73e-03	6.34e-03	18,44,28	0.0	0	0.0	0.0	0.0	0.0
	0.01	7.77e-03	0.0	45,45,0	2.04e-05	0.02	0.01	18,45,45			1.00	0.07	0.93	
1676	0.0	0.01	0.0	0,2,0	4.38e-05	4.53e-03	8.87e-03	38,45,44	0.0	0	0.0	0.0	0.0	0.0
	0.01	8.08e-03	0.0	44,44,0	4.21e-05	0.02	0.01	38,44,44			1.00	0.07	0.93	
1677	1.65e-03	0.01	0.0	46,2,0	4.38e-05	8.10e-03	0.01	38,45,44	0.0	0	0.94	0.03	0.97	
	0.02	0.02	0.0	44,44,0	4.21e-05	0.05	0.01	38,44,44			1.00	0.07	0.93	
1678	5.70e-03	0.01	0.0	38,28,0	2.16e-05	8.10e-03	0.01	18,45,44	0.0	0	0.94	0.03	0.97	
	0.02	0.02	0.0	44,44,0	2.04e-05	0.05	0.01	18,44,44			1.00	0.07	0.93	
1679	5.70e-03	9.66e-03	0.0	38,28,0	2.16e-05	6.86e-03	8.89e-03	18,44,44	0.0	0	0.94	0.03	0.97	
	0.01	7.71e-03	0.0	44,44,0	2.04e-05	0.02	0.01	18,44,44			1.00	0.07	0.93	
2307	0.03	0.03	0.0	45,44,0	1.09e-04	0.06	0.05	44,45,44	0.0	0	0.94	0.03	0.97	
	0.02	0.02	0.0	45,44,0	6.58e-05	0.05	0.04	44,46,44			1.00	0.07	0.93	
2308	0.03	0.03	0.0	45,44,0	1.09e-04	0.06	0.05	44,45,44	0.0	0	0.94	0.03	0.97	
	0.02	0.02	0.0	45,44,0	6.58e-05	0.05	0.04	44,46,44			1.00	0.07	0.93	
2309	0.02	0.02	0.0	46,44,0	3.36e-05	0.03	0.03	44,45,45	0.0	0	0.94	0.03	0.97	
	7.10e-03	9.82e-03	0.0	45,44,0	1.69e-05	0.02	0.02	18,45,45			1.00	0.07	0.93	
2310	0.02	0.02	0.0	44,44,0	3.36e-05	0.03	0.03	44,45,45	0.0	0	0.94	0.03	0.97	
	7.10e-03	9.82e-03	0.0	45,44,0	1.69e-05	0.02	0.02	18,45,45			1.00	0.07	0.93	
2416	0.03	0.03	0.0	45,44,0	1.09e-04	0.06	0.05	44,45,44	0.0	0	0.94	0.03	0.97	
	0.02	0.02	0.0	45,44,0	6.58e-05	0.05	0.04	44,46,44			1.00	0.07	0.93	
2417	0.03	0.03	0.0	45,44,0	1.09e-04	0.06	0.05	44,45,44	0.0	0	0.94	0.03	0.97	
	0.02	0.02	0.0	45,44,0	6.58e-05	0.05	0.04	44,46,44			1.00	0.07	0.93	
2418	0.02	0.02	0.0	46,44,0	3.36e-05	0.03	0.03	44,45,45	0.0	0	0.94	0.03	0.97	
	7.10e-03	9.82e-03	0.0	45,44,0	1.69e-05	0.02	0.02	18,45,45			1.00	0.07	0.93	
2419	0.02	0.02	0.0	44,44,0	3.36e-05	0.03	0.03	44,45,45	0.0	0	0.94	0.03	0.97	
	7.10e-03	9.82e-03	0.0	45,44,0	1.69e-05	0.02	0.02	18,45,45			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.03	0.03	0.0		1.09e-04	0.06	0.05		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
42	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.20	-146.1	28	0.88	1226.2	2	0.01	-320.7	5748.0	45

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
384	0.0	0.01	0.0	0,38,0	7.39e-05	6.76e-05	5.43e-03	28,24,38	0.0	0	0.0	0.0	0.0
	0.0	1.90e-03	0.0	0,38,0	7.34e-05	1.07e-04	6.13e-04	28,18,38			0.0	0.0	0.0
403	0.0	0.01	0.0	0,38,0	7.39e-05	6.76e-05	5.43e-03	28,24,38	0.0	0	0.0	0.0	0.0
	0.0	1.90e-03	0.0	0,38,0	7.34e-05	1.07e-04	6.13e-04	28,18,38			0.0	0.0	0.0
803	0.0	0.02	0.0	0,38,0	7.39e-05	6.76e-05	7.41e-03	28,24,38	0.0	0	0.0	0.0	0.0
	1.82e-04	1.90e-03	0.0	35,38,0	7.34e-05	2.17e-04	6.13e-04	28,35,38			1.00	0.07	0.93
822	0.0	0.02	0.0	0,38,0	7.39e-05	6.76e-05	7.41e-03	28,24,38	0.0	0	0.0	0.0	0.0
	1.82e-04	1.90e-03	0.0	35,38,0	7.34e-05	2.17e-04	6.13e-04	28,35,38			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1203	0.0	0.03	0.0	0,2,0	5.78e-05	4.05e-05	9.98e-03	28,43,2	0.0	0	0.0	0.0	0.0	0.0
	1.82e-04	3.51e-04	0.0	35,44,0	5.73e-05	2.17e-04	1.09e-04	28,35,44			1.00	0.07	0.93	
1222	0.0	0.03	0.0	0,2,0	5.78e-05	4.05e-05	9.98e-03	28,43,2	0.0	0	0.0	0.0	0.0	0.0
	1.82e-04	3.51e-04	0.0	35,44,0	5.73e-05	2.17e-04	1.09e-04	28,35,44			1.00	0.07	0.93	
1657	0.0	0.03	0.0	0,2,0	7.71e-05	3.01e-04	0.01	38,11,2	0.0	0	0.0	0.0	0.0	0.0
	1.96e-03	1.63e-03	0.0	45,34,0	7.63e-05	2.36e-03	6.74e-04	38,45,28			1.00	0.07	0.93	
1676	0.0	0.03	0.0	0,2,0	7.71e-05	3.01e-04	0.01	38,11,2	0.0	0	0.0	0.0	0.0	0.0
	1.96e-03	1.63e-03	0.0	45,34,0	7.63e-05	2.36e-03	6.74e-04	38,45,28			1.00	0.07	0.93	
2228	1.23e-04	5.69e-03	0.0	45,2,0	1.82e-03	2.02e-04	2.27e-03	2,2,2	0.0	0	0.95	0.03	0.97	
	0.03	0.0	0.0	44,0,0	1.81e-03	0.03	1.79e-04	2,44,2			1.00	0.07	0.93	
2265	1.23e-04	5.70e-03	0.0	45,2,0	1.82e-03	2.02e-04	2.27e-03	2,2,2	0.0	0	0.95	0.03	0.97	
	0.05	0.0	0.0	38,0,0	1.81e-03	0.06	1.79e-04	2,38,2			1.00	0.07	0.93	
2271	0.0	9.97e-03	0.0	0,2,0	1.39e-03	8.39e-05	3.71e-03	38,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.05	0.0	0.0	38,0,0	1.38e-03	0.06	1.40e-04	38,38,2			1.00	0.07	0.93	
2281	0.0	0.03	0.0	0,2,0	1.39e-03	3.46e-04	0.01	38,11,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	1.63e-03	0.0	38,34,0	1.38e-03	0.05	7.79e-04	38,38,12			1.00	0.07	0.93	
2307	0.0	0.03	0.0	0,2,0	3.63e-04	3.46e-04	0.01	28,11,2	0.0	0	0.0	0.0	0.0	0.0
	0.01	1.63e-03	0.0	38,34,0	3.58e-04	0.02	7.79e-04	28,38,12			1.00	0.07	0.93	
2416	0.0	0.02	0.0	0,2,0	3.63e-04	3.46e-04	6.70e-03	28,11,2	0.0	0	0.0	0.0	0.0	0.0
	0.01	5.05e-04	0.0	38,35,0	3.58e-04	0.02	7.79e-04	28,38,12			1.00	0.07	0.93	
2456	0.0	0.02	0.0	0,2,0	1.39e-03	3.46e-04	6.70e-03	38,11,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	5.05e-04	0.0	38,35,0	1.38e-03	0.05	7.79e-04	38,38,12			1.00	0.07	0.93	
2475	0.0	9.97e-03	0.0	0,2,0	1.39e-03	8.39e-05	3.71e-03	38,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.05	0.0	0.0	38,0,0	1.38e-03	0.06	1.40e-04	38,38,2			1.00	0.07	0.93	
2488	1.23e-04	5.70e-03	0.0	45,2,0	1.82e-03	2.02e-04	2.27e-03	2,2,2	0.0	0	0.95	0.03	0.97	
	0.05	0.0	0.0	38,0,0	1.81e-03	0.06	1.79e-04	2,38,2			1.00	0.07	0.93	
2520	1.23e-04	5.69e-03	0.0	45,2,0	1.82e-03	2.02e-04	2.27e-03	2,2,2	0.0	0	0.95	0.03	0.97	
	0.03	0.0	0.0	44,0,0	1.81e-03	0.03	1.79e-04	2,44,2			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.05	0.03	0.0		1.82e-03	0.06	0.01		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
43	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	982.2	44	0.16	-273.0	2	0.08	-6940.7	-3.204e+05	28

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
128	0.0	0.02	0.0	0,38,0	4.14e-05	3.74e-05	6.55e-03	44,28,38	0.0	0	0.0	0.0	0.0
	6.48e-05	3.88e-04	0.0	35,44,0	4.13e-05	1.07e-04	1.15e-04	44,35,44			1.00	0.07	0.93
181	0.0	0.02	0.0	0,2,0	5.23e-05	3.74e-05	7.14e-03	44,28,2	0.0	0	0.0	0.0	0.0
	6.48e-05	3.88e-04	0.0	35,44,0	5.22e-05	1.07e-04	1.15e-04	44,35,44			1.00	0.07	0.93
185	0.0	0.03	0.0	0,2,0	5.34e-05	8.56e-06	8.68e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.45e-04	1.80e-04	0.0	46,34,0	5.33e-05	1.76e-04	5.58e-05	44,46,24			1.00	0.07	0.93
189	0.0	0.03	0.0	0,2,0	5.34e-05	1.01e-05	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	4.90e-04	2.23e-04	0.0	46,33,0	5.33e-05	5.79e-04	6.73e-05	44,46,33			1.00	0.07	0.93
195	0.0	0.03	0.0	0,2,0	4.22e-05	1.01e-05	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	4.90e-04	2.23e-04	0.0	46,33,0	4.21e-05	5.79e-04	6.73e-05	44,46,33			1.00	0.07	0.93
199	0.0	0.05	0.0	0,2,0	3.38e-06	3.57e-04	0.02	46,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.43e-04	0.0	0,8,0	3.01e-06	1.49e-04	2.14e-04	46,2,8			0.0	0.0	0.0
211	0.0	0.05	0.0	0,2,0	3.38e-06	3.57e-04	0.02	46,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.43e-04	0.0	0,8,0	3.01e-06	1.49e-04	2.14e-04	46,2,8			0.0	0.0	0.0
597	0.0	0.02	0.0	0,38,0	4.14e-05	3.74e-05	6.55e-03	44,28,38	0.0	0	0.0	0.0	0.0
	1.41e-04	3.88e-04	0.0	34,44,0	4.13e-05	2.50e-04	1.15e-04	44,34,44			1.00	0.07	0.93
649	0.0	0.02	0.0	0,2,0	5.52e-05	3.74e-05	7.14e-03	44,28,2	0.0	0	0.0	0.0	0.0
	1.41e-04	3.88e-04	0.0	34,44,0	5.51e-05	2.50e-04	1.15e-04	44,34,44			1.00	0.07	0.93
653	0.0	0.03	0.0	0,2,0	5.92e-05	8.56e-06	8.68e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.45e-04	4.09e-04	0.0	46,2,0	5.91e-05	1.76e-04	1.26e-04	44,46,2			1.00	0.07	0.93
657	0.0	0.03	0.0	0,2,0	5.92e-05	1.01e-05	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	4.90e-04	4.09e-04	0.0	46,2,0	5.91e-05	5.79e-04	1.26e-04	44,46,2			1.00	0.07	0.93
663	0.0	0.03	0.0	0,2,0	4.22e-05	1.01e-05	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	4.90e-04	2.82e-04	0.0	46,28,0	4.21e-05	5.79e-04	8.81e-05	44,46,28			1.00	0.07	0.93
667	0.0	0.05	0.0	0,2,0	3.38e-06	3.57e-04	0.02	46,2,2	0.0	0	0.0	0.0	0.0
	1.18e-04	2.43e-04	0.0	11,8,0	3.01e-06	1.49e-04	2.14e-04	46,2,8			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



	1.81e-03	3.97e-03	0.0	25,38,0	9.49e-05	2.30e-03	1.29e-03	2,25,38			1.00	0.07	0.93
2772	0.0	0.01	0.0	0,2,0	6.14e-05	6.58e-05	4.53e-03	38,8,2	0.0	0	0.0	0.0	0.0
	2.34e-03	4.07e-03	0.0	25,38,0	6.13e-05	2.86e-03	1.43e-03	38,25,38			1.00	0.07	0.93
2775	0.0	0.02	0.0	0,2,0	9.04e-05	4.78e-04	6.35e-03	2,18,2	0.0	0	0.0	0.0	0.0
	3.14e-03	4.18e-03	0.0	25,38,0	8.96e-05	3.73e-03	1.43e-03	2,25,38			1.00	0.07	0.93
2815	0.0	0.02	0.0	0,2,0	1.01e-04	9.71e-05	7.88e-03	2,18,2	0.0	0	0.0	0.0	0.0
	3.62e-03	2.35e-03	0.0	44,36,0	1.01e-04	4.32e-03	6.74e-04	2,44,36			1.00	0.07	0.93
2828	0.0	0.02	0.0	0,2,0	9.04e-05	4.78e-04	6.35e-03	2,18,2	0.0	0	0.0	0.0	0.0
	3.14e-03	4.18e-03	0.0	25,38,0	8.96e-05	3.73e-03	1.35e-03	2,25,38			1.00	0.07	0.93
2891	0.0	0.02	0.0	0,2,0	1.31e-05	1.78e-05	6.48e-03	28,12,2	0.0	0	0.0	0.0	0.0
	2.90e-03	2.35e-03	0.0	43,36,0	1.30e-05	3.42e-03	6.74e-04	28,43,36			1.00	0.07	0.93
2895	0.0	0.02	0.0	0,2,0	9.27e-06	1.83e-05	6.56e-03	28,12,2	0.0	0	0.0	0.0	0.0
	1.97e-03	1.79e-03	0.0	23,36,0	9.14e-06	2.33e-03	5.24e-04	28,23,36			1.00	0.07	0.93
3093	0.0	0.02	0.0	0,2,0	1.19e-04	1.03e-04	7.47e-03	2,13,2	0.0	0	0.0	0.0	0.0
	1.77e-03	3.30e-03	0.0	25,28,0	1.19e-04	2.10e-03	1.02e-03	2,25,28			1.00	0.07	0.93
3099	0.0	0.02	0.0	0,2,0	1.19e-04	1.03e-04	7.47e-03	2,13,2	0.0	0	0.0	0.0	0.0
	1.24e-03	4.33e-03	0.0	25,28,0	1.19e-04	1.61e-03	1.25e-03	2,25,28			1.00	0.07	0.93
3101	0.0	0.02	0.0	0,2,0	1.79e-04	3.10e-04	7.01e-03	2,2,2	0.0	0	0.0	0.0	0.0
	1.69e-03	4.33e-03	0.0	25,28,0	1.78e-04	2.17e-03	1.25e-03	2,25,28			1.00	0.07	0.93
3113	0.0	0.02	0.0	0,2,0	1.79e-04	3.10e-04	7.01e-03	2,2,2	0.0	0	0.0	0.0	0.0
	4.03e-03	2.87e-03	0.0	18,38,0	1.78e-04	5.06e-03	8.57e-04	2,18,38			1.00	0.07	0.93
3125	0.0	0.02	0.0	0,2,0	6.83e-05	1.58e-04	5.82e-03	18,2,2	0.0	0	0.0	0.0	0.0
	4.03e-03	2.96e-03	0.0	18,38,0	6.80e-05	5.06e-03	8.75e-04	18,18,38			1.00	0.07	0.93
3129	0.0	0.02	0.0	0,2,0	5.65e-05	3.89e-04	5.82e-03	2,18,2	0.0	0	0.0	0.0	0.0
	3.14e-03	3.16e-03	0.0	25,44,0	5.64e-05	3.73e-03	9.10e-04	2,25,44			1.00	0.07	0.93
3144	0.0	0.01	0.0	0,2,0	5.65e-05	3.89e-04	5.03e-03	2,18,2	0.0	0	0.0	0.0	0.0
	3.14e-03	3.16e-03	0.0	25,44,0	5.64e-05	3.73e-03	9.10e-04	2,25,44			1.00	0.07	0.93
3157	0.0	0.02	0.0	0,2,0	1.19e-04	1.03e-04	7.47e-03	2,13,2	0.0	0	0.0	0.0	0.0
	8.56e-05	4.33e-03	0.0	25,28,0	1.19e-04	2.22e-04	1.25e-03	2,25,28			1.00	0.07	0.93
3159	0.0	0.02	0.0	0,2,0	1.79e-04	3.10e-04	7.01e-03	2,2,2	0.0	0	0.0	0.0	0.0
	6.60e-04	4.33e-03	0.0	26,28,0	1.78e-04	9.94e-04	1.25e-03	2,26,28			1.00	0.07	0.93
3171	0.0	0.02	0.0	0,2,0	1.79e-04	3.10e-04	7.01e-03	2,2,2	0.0	0	0.0	0.0	0.0
	4.03e-03	1.64e-03	0.0	18,28,0	1.78e-04	5.06e-03	6.12e-04	2,18,2			1.00	0.07	0.93
3183	0.0	0.02	0.0	0,2,0	6.83e-05	1.58e-04	5.82e-03	18,2,2	0.0	0	0.0	0.0	0.0
	4.03e-03	1.58e-03	0.0	18,43,0	6.80e-05	5.06e-03	5.98e-04	18,18,44			1.00	0.07	0.93
3187	0.0	0.02	0.0	0,2,0	5.65e-05	1.23e-04	5.82e-03	2,18,2	0.0	0	0.0	0.0	0.0
	4.61e-04	2.47e-03	0.0	26,38,0	5.64e-05	7.02e-04	8.24e-04	2,26,38			1.00	0.07	0.93
3203	0.0	0.01	0.0	0,2,0	5.65e-05	4.48e-05	4.71e-03	2,23,2	0.0	0	0.0	0.0	0.0
	0.0	2.47e-03	0.0	0,38,0	5.64e-05	1.68e-04	8.24e-04	2,8,38			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	4.03e-03	0.05	0.0		2.34e-04	5.06e-03	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
44	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	585.2	44	0.77	1475.8	2	0.08	-9181.7	-2.707e+05	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
235	0.0	0.03	0.0	0,2,0	4.39e-04	5.81e-05	0.01	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.63e-03	0.0	0,2,0	4.37e-04	1.13e-04	1.69e-03	38,18,2			0.0	0.0	0.0
284	0.0	0.03	0.0	0,2,0	4.39e-04	5.81e-05	0.01	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.63e-03	0.0	0,2,0	4.37e-04	1.13e-04	1.69e-03	38,18,2			0.0	0.0	0.0
306	0.0	0.07	0.0	0,2,0	5.86e-05	3.45e-06	0.02	28,8,2	0.0	0	0.0	0.0	0.0
	2.32e-04	3.72e-04	0.0	36,43,0	5.65e-05	2.74e-04	1.10e-04	28,36,43			1.00	0.07	0.93
312	0.0	0.07	0.0	0,2,0	5.86e-05	3.45e-06	0.02	28,8,2	0.0	0	0.0	0.0	0.0
	2.32e-04	7.33e-04	0.0	36,2,0	5.65e-05	2.74e-04	2.07e-04	28,36,2			1.00	0.07	0.93
320	0.0	0.05	0.0	0,2,0	5.66e-05	0.0	0.02	28,8,2	0.0	0	0.0	0.0	0.0
	0.0	7.33e-04	0.0	0,2,0	5.56e-05	5.72e-06	2.07e-04	28,43,2			0.0	0.0	0.0
703	0.0	0.05	0.0	0,2,0	4.39e-04	5.81e-05	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.63e-03	0.0	0,2,0	4.37e-04	1.13e-04	1.69e-03	38,18,2			0.0	0.0	0.0
731	0.0	0.05	0.0	0,2,0	4.39e-04	5.81e-05	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.63e-03	0.0	0,2,0	4.37e-04	1.13e-04	1.69e-03	38,18,2			0.0	0.0	0.0
745	0.0	0.07	0.0	0,2,0	9.02e-05	4.31e-06	0.02	28,8,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



749	2.32e-04	1.05e-03	0.0	36,2,0	8.78e-05	2.74e-04	2.96e-04	28,36,2		1.00	0.07	0.93
	0.0	0.07	0.0	0,2,0	9.02e-05	4.31e-06	0.02	28,8,2	0.0	0	0.0	0.0
755	2.32e-04	1.85e-03	0.0	36,2,0	8.78e-05	2.74e-04	5.23e-04	28,36,2		1.00	0.07	0.93
	0.0	0.05	0.0	0,2,0	6.23e-05	1.25e-06	0.02	28,4,2	0.0	0	0.0	0.0
1059	0.0	1.85e-03	0.0	0,2,0	6.14e-05	5.72e-06	5.23e-04	28,43,2		0.0	0.0	0.0
	0.0	0.06	0.0	0,2,0	4.34e-04	1.78e-04	0.02	38,18,2	0.0	0	0.0	0.0
1103	0.0	4.26e-03	0.0	0,38,0	4.33e-04	6.38e-05	1.22e-03	38,18,38		0.0	0.0	0.0
	0.0	0.06	0.0	0,2,0	4.34e-04	1.78e-04	0.02	38,18,2	0.0	0	0.0	0.0
1125	0.0	4.26e-03	0.0	0,38,0	4.33e-04	6.38e-05	1.22e-03	38,18,38		0.0	0.0	0.0
	0.0	0.07	0.0	0,2,0	3.16e-04	5.06e-06	0.03	28,8,2	0.0	0	0.0	0.0
1131	0.0	6.31e-03	0.0	0,2,0	3.13e-04	6.51e-06	1.79e-03	28,45,2		0.0	0.0	0.0
	0.0	0.07	0.0	0,2,0	3.16e-04	6.20e-06	0.03	28,43,2	0.0	0	0.0	0.0
1139	0.0	6.31e-03	0.0	0,2,0	3.13e-04	7.75e-06	1.79e-03	28,43,2		0.0	0.0	0.0
	0.0	0.04	0.0	0,2,0	6.23e-05	6.20e-06	0.02	28,43,2	0.0	0	0.0	0.0
1489	0.0	6.22e-03	0.0	0,2,0	6.14e-05	7.75e-06	1.76e-03	28,43,2		0.0	0.0	0.0
	0.0	0.06	0.0	0,2,0	1.42e-03	1.78e-04	0.02	2,18,2	0.0	0	0.0	0.0
1493	0.02	4.26e-03	0.0	18,38,0	1.42e-03	0.02	1.22e-03	2,18,38		1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	1.42e-03	2.75e-05	5.85e-03	2,18,2	0.0	0	0.0	0.0
1497	0.03	0.0	0.0	2,0,0	1.42e-03	0.03	1.46e-05	2,2,24		1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	1.59e-03	3.58e-06	5.71e-03	2,11,2	0.0	0	0.0	0.0
1503	0.03	4.65e-04	0.0	2,35,0	1.59e-03	0.03	1.34e-04	2,2,35		1.00	0.07	0.93
	0.0	0.07	0.0	0,2,0	1.59e-03	5.06e-06	0.03	2,8,2	0.0	0	0.0	0.0
1505	0.01	6.31e-03	0.0	38,2,0	1.59e-03	0.02	1.79e-03	2,38,2		1.00	0.07	0.93
	0.0	0.07	0.0	0,2,0	4.92e-04	6.20e-06	0.03	2,43,2	0.0	0	0.0	0.0
1509	1.99e-03	6.31e-03	0.0	46,2,0	4.91e-04	2.35e-03	1.79e-03	2,46,2		1.00	0.07	0.93
	0.0	0.04	0.0	0,2,0	3.73e-05	6.20e-06	0.01	28,43,2	0.0	0	0.0	0.0
1619	0.0	6.22e-03	0.0	0,2,0	3.66e-05	1.77e-05	1.76e-03	28,43,2		0.0	0.0	0.0
	0.0	0.06	0.0	0,2,0	1.03e-03	1.78e-04	0.02	2,18,2	0.0	0	0.0	0.0
2067	1.03e-03	4.26e-03	0.0	26,38,0	1.03e-03	1.29e-03	1.22e-03	2,26,38		1.00	0.07	0.93
	0.0	0.05	0.0	0,2,0	2.27e-03	1.12e-04	0.02	2,18,2	0.0	0	0.0	0.0
2129	1.03e-03	4.55e-03	0.0	26,2,0	2.26e-03	1.29e-03	1.30e-03	2,26,2		1.00	0.07	0.93
	0.0	0.05	0.0	0,2,0	2.27e-03	1.12e-04	0.02	2,18,2	0.0	0	0.0	0.0
2141	0.02	6.95e-03	0.0	18,38,0	2.26e-03	0.02	1.99e-03	2,18,2		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	1.56e-03	3.18e-05	0.01	2,18,2	0.0	0	0.0	0.0
2149	0.03	6.95e-03	0.0	2,38,0	1.56e-03	0.03	1.99e-03	2,2,2		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	1.59e-03	4.33e-06	9.54e-03	2,18,2	0.0	0	0.0	0.0
2159	0.03	5.58e-03	0.0	2,38,0	1.59e-03	0.03	1.59e-03	2,2,38		1.00	0.07	0.93
	0.0	0.05	0.0	0,2,0	1.59e-03	7.92e-06	0.02	2,18,2	0.0	0	0.0	0.0
2165	0.01	1.61e-03	0.0	38,33,0	1.59e-03	0.02	4.59e-04	2,38,33		1.00	0.07	0.93
	0.0	0.05	0.0	0,2,0	9.02e-04	9.24e-06	0.02	2,43,2	0.0	0	0.0	0.0
2173	5.95e-03	3.60e-03	0.0	18,28,0	9.01e-04	7.04e-03	1.02e-03	2,18,28		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	7.91e-05	9.24e-06	0.01	28,43,2	0.0	0	0.0	0.0
2637	4.66e-03	3.60e-03	0.0	8,28,0	7.89e-05	5.53e-03	1.02e-03	28,8,28		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	7.91e-05	9.24e-06	9.20e-03	28,43,2	0.0	0	0.0	0.0
2653	4.66e-03	3.68e-04	0.0	8,45,0	7.89e-05	5.53e-03	1.06e-04	28,8,45		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	9.02e-04	9.24e-06	0.01	2,43,2	0.0	0	0.0	0.0
2778	5.95e-03	3.68e-04	0.0	18,45,0	9.01e-04	7.04e-03	1.06e-04	2,18,45		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	1.53e-03	7.92e-06	0.01	2,18,2	0.0	0	0.0	0.0
2786	5.95e-03	1.45e-03	0.0	18,43,0	1.53e-03	7.04e-03	4.20e-04	2,18,43		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	1.53e-03	4.33e-06	9.54e-03	2,18,2	0.0	0	0.0	0.0
2795	8.02e-04	5.58e-03	0.0	26,38,0	1.53e-03	9.61e-04	1.59e-03	2,26,38		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	1.56e-03	3.18e-05	0.01	2,18,2	0.0	0	0.0	0.0
2811	0.0	6.95e-03	0.0	0,38,0	1.56e-03	2.40e-05	1.99e-03	2,13,2		0.0	0.0	0.0
	0.0	0.03	0.0	0,2,0	2.27e-03	3.18e-05	0.01	2,18,2	0.0	0	0.0	0.0
2828	1.37e-04	6.95e-03	0.0	25,38,0	2.26e-03	1.72e-04	1.99e-03	2,25,2		1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	2.27e-03	2.29e-05	0.01	2,2,2	0.0	0	0.0	0.0
	1.37e-04	4.55e-03	0.0	25,2,0	2.26e-03	1.72e-04	1.30e-03	2,25,2		1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26			
	0.03	0.07	0.0		2.27e-03	0.03	0.03		0.0			

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
45	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.04	-283.6	24	0.04	-397.4	18	0.06	-5001.3	-1.074e+05	40

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2082	2.19e-03	2.79e-03	0.0	38,18,0	3.08e-05	3.41e-03	1.27e-03	2,11,18	1.00	0.07	0.93
	2.14e-04	3.78e-03	0.0	44,2,0	1.30e-05	6.37e-04	1.95e-03	18,2,2	0.96	0.03	0.97
	2.37e-03	4.15e-03	0.0	38,18,0	1.24e-05	4.67e-03	2.06e-03	18,44,38	1.00	0.07	0.93
2083	2.14e-04	3.22e-03	0.0	44,8,0	1.48e-05	3.82e-04	1.26e-03	11,44,38	0.96	0.03	0.97
	4.54e-03	6.48e-03	0.0	38,38,0	1.47e-05	0.01	2.90e-03	11,38,38	1.00	0.07	0.93
2084	0.0	0.02	0.0	0,2,0	8.48e-05	3.82e-04	7.61e-03	2,44,2	0.0	0.0	0.0
	8.35e-03	6.72e-03	0.0	38,38,0	8.28e-05	0.02	3.29e-03	2,38,38	1.00	0.07	0.93
2085	0.0	0.03	0.0	0,2,0	9.35e-05	5.10e-04	9.74e-03	2,40,2	0.0	0.0	0.0
	0.01	7.83e-03	0.0	38,38,0	8.88e-05	0.02	3.99e-03	2,38,38	1.00	0.07	0.93
2086	0.0	0.03	0.0	0,2,0	1.98e-04	2.34e-03	0.01	2,28,2	0.0	0.0	0.0
	0.02	0.01	0.0	38,38,0	1.95e-04	0.03	8.98e-03	2,38,44	1.00	0.07	0.93
2087	0.0	0.03	0.0	0,2,0	1.98e-04	2.34e-03	0.01	2,28,2	0.0	0.0	0.0
	0.02	0.01	0.0	38,38,0	1.95e-04	0.03	8.98e-03	2,38,44	1.00	0.07	0.93
2840	0.0	0.01	0.0	0,2,0	8.35e-05	3.30e-03	7.75e-03	2,2,2	0.0	0.0	0.0
	2.45e-03	4.40e-04	0.0	38,25,0	8.07e-05	3.70e-03	9.61e-04	2,38,23	1.00	0.07	0.93
2841	0.0	0.01	0.0	0,2,0	8.35e-05	3.33e-03	7.75e-03	2,2,2	0.0	0.0	0.0
	2.45e-03	4.40e-04	0.0	38,25,0	8.07e-05	3.70e-03	9.61e-04	2,38,23	1.00	0.07	0.93
2842	0.0	0.01	0.0	0,2,0	3.19e-05	3.33e-03	7.74e-03	2,2,2	0.0	0.0	0.0
	2.19e-03	3.69e-04	0.0	38,25,0	3.08e-05	2.95e-03	4.94e-04	2,38,40	1.00	0.07	0.93
2843	2.14e-04	3.57e-03	0.0	44,2,0	6.10e-06	6.37e-04	1.95e-03	11,2,2	0.96	0.03	0.97
	2.37e-03	3.84e-04	0.0	38,25,0	5.93e-06	3.84e-03	7.34e-04	11,38,38	1.00	0.07	0.93
2844	2.14e-04	2.17e-03	0.0	44,2,0	6.95e-06	3.82e-04	1.18e-03	11,44,38	0.96	0.03	0.97
	4.54e-03	1.12e-03	0.0	38,18,0	6.96e-06	8.64e-03	1.33e-03	11,38,44	1.00	0.07	0.93
2845	0.0	0.01	0.0	0,2,0	8.48e-05	3.82e-04	4.77e-03	2,44,2	0.0	0.0	0.0
	8.35e-03	2.44e-03	0.0	38,44,0	8.28e-05	0.02	2.54e-03	2,38,44	1.00	0.07	0.93
2846	0.0	0.03	0.0	0,2,0	9.35e-05	5.10e-04	9.67e-03	2,40,2	0.0	0.0	0.0
	0.01	4.69e-03	0.0	38,44,0	8.88e-05	0.02	2.74e-03	2,38,44	1.00	0.07	0.93
2847	0.0	0.03	0.0	0,2,0	9.35e-05	2.34e-03	0.01	2,28,2	0.0	0.0	0.0
	0.02	6.87e-03	0.0	38,44,0	8.88e-05	0.03	8.98e-03	2,38,44	1.00	0.07	0.93
2848	0.0	0.03	0.0	0,2,0	2.25e-05	2.34e-03	0.01	2,28,2	0.0	0.0	0.0
	0.02	6.87e-03	0.0	38,44,0	2.12e-05	0.03	8.98e-03	18,38,44	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26		
	0.02	0.06	0.0		1.98e-04	0.03	0.04		0.0		

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
46	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.06	-193.8	24	9.34e-03	-45.3	2	0.04	-1052.8	2.153e+04	25

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
407	0.0	0.02	0.0	0,18,0	9.54e-06	3.48e-03	8.90e-03	45,44,38	0.0	0	0.0	0.0	0.0
	4.38e-03	3.50e-03	0.0	45,44,0	7.57e-06	0.01	7.09e-03	45,45,45			1.00	0.07	0.93
408	0.0	0.02	0.0	0,18,0	9.54e-06	4.62e-03	9.49e-03	45,45,44	0.0	0	0.0	0.0	0.0
	7.16e-03	5.62e-03	0.0	45,44,0	9.22e-06	0.02	7.09e-03	24,45,45			1.00	0.07	0.93
409	0.0	0.02	0.0	0,8,0	1.86e-05	4.62e-03	9.49e-03	44,45,44	0.0	0	0.0	0.0	0.0
	7.16e-03	5.62e-03	0.0	45,44,0	1.74e-05	0.02	7.12e-03	18,45,45			1.00	0.07	0.93
410	0.0	0.02	0.0	0,8,0	1.86e-05	3.37e-03	8.91e-03	44,45,38	0.0	0	0.0	0.0	0.0
	4.44e-03	3.54e-03	0.0	45,44,0	1.74e-05	0.01	7.12e-03	18,45,45			1.00	0.07	0.93
826	0.0	0.02	0.0	0,18,0	1.56e-05	3.48e-03	8.90e-03	8,44,38	0.0	0	0.0	0.0	0.0
	0.01	7.76e-03	0.0	45,45,0	1.49e-05	0.02	0.01	8,45,45			1.00	0.07	0.93
827	0.0	0.02	0.0	0,18,0	1.56e-05	4.62e-03	9.49e-03	8,45,44	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	45,45,0	1.49e-05	0.05	0.01	8,45,45			1.00	0.07	0.93
828	0.0	0.02	0.0	0,8,0	3.14e-05	4.62e-03	9.49e-03	18,45,44	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	45,45,0	3.09e-05	0.05	0.01	18,45,45			1.00	0.07	0.93
829	0.0	0.02	0.0	0,8,0	3.14e-05	3.37e-03	8.91e-03	18,45,38	0.0	0	0.0	0.0	0.0
	0.01	7.78e-03	0.0	45,45,0	3.09e-05	0.02	0.01	18,45,45			1.00	0.07	0.93
1226	0.0	0.01	0.0	0,38,0	2.17e-05	1.73e-03	6.33e-03	8,44,28	0.0	0	0.0	0.0	0.0
	0.01	7.76e-03	0.0	45,45,0	2.04e-05	0.02	0.01	8,45,45			1.00	0.07	0.93
1227	0.0	0.01	0.0	0,38,0	2.17e-05	1.82e-03	6.43e-03	8,44,44	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	44,44,0	2.04e-05	0.05	0.01	8,44,45			1.00	0.07	0.93
1228	0.0	0.02	0.0	0,8,0	3.82e-05	1.82e-03	7.17e-03	18,44,28	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	44,44,0	3.75e-05	0.05	0.01	18,44,44			1.00	0.07	0.93
1229	0.0	0.02	0.0	0,8,0	3.82e-05	1.58e-03	7.17e-03	18,44,28	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



1680	0.01	8.07e-03	0.0	44,44,0	3.75e-05	0.02	0.01	18,44,44			1.00	0.07	0.93
	5.63e-03	9.66e-03	0.0	38,28,0	2.17e-05	6.82e-03	8.87e-03	8,44,44	0.0	0	0.94	0.03	0.97
	0.01	7.71e-03	0.0	44,44,0	2.04e-05	0.02	0.01	8,44,44			1.00	0.07	0.93
1681	5.63e-03	0.01	0.0	38,28,0	2.17e-05	8.12e-03	0.01	8,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	44,44,0	2.04e-05	0.05	0.01	8,44,44			1.00	0.07	0.93
1682	1.67e-03	0.01	0.0	46,28,0	4.44e-05	8.12e-03	0.01	38,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	44,44,0	4.27e-05	0.05	0.01	38,44,44			1.00	0.07	0.93
1683	0.0	0.01	0.0	0,28,0	4.44e-05	4.55e-03	8.91e-03	38,45,44	0.0	0	0.0	0.0	0.0
	0.01	8.07e-03	0.0	44,44,0	4.27e-05	0.02	0.01	38,44,44			1.00	0.07	0.93
2314	0.02	0.02	0.0	44,44,0	3.32e-05	0.03	0.03	44,45,45	0.0	0	0.94	0.03	0.97
	7.12e-03	0.01	0.0	45,44,0	1.71e-05	0.02	0.02	8,45,45			1.00	0.07	0.93
2315	0.02	0.02	0.0	46,44,0	3.32e-05	0.03	0.03	44,45,45	0.0	0	0.94	0.03	0.97
	7.12e-03	0.01	0.0	45,44,0	1.71e-05	0.02	0.02	8,45,45			1.00	0.07	0.93
2316	0.03	0.03	0.0	45,44,0	1.09e-04	0.06	0.05	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	45,44,0	6.71e-05	0.05	0.04	44,46,44			1.00	0.07	0.93
2317	0.03	0.03	0.0	45,44,0	1.09e-04	0.06	0.05	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	45,44,0	6.71e-05	0.05	0.04	44,46,44			1.00	0.07	0.93
2423	0.02	0.02	0.0	44,44,0	3.32e-05	0.03	0.03	44,45,45	0.0	0	0.94	0.03	0.97
	7.12e-03	0.01	0.0	45,44,0	1.71e-05	0.02	0.02	8,45,45			1.00	0.07	0.93
2424	0.02	0.02	0.0	46,44,0	3.32e-05	0.03	0.03	44,45,45	0.0	0	0.94	0.03	0.97
	7.12e-03	0.01	0.0	45,44,0	1.71e-05	0.02	0.02	8,45,45			1.00	0.07	0.93
2425	0.03	0.03	0.0	45,44,0	1.09e-04	0.06	0.05	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	45,44,0	6.71e-05	0.05	0.04	44,46,44			1.00	0.07	0.93
2426	0.03	0.03	0.0	45,44,0	1.09e-04	0.06	0.05	44,45,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	45,44,0	6.71e-05	0.05	0.04	44,46,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.03	0.0		1.09e-04	0.06	0.05		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
47	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.12	948.2	44	0.60	1148.5	2	0.13	-9021.1	-3.964e+05	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
243	0.0	0.03	0.0	0,2,0	8.77e-04	2.76e-05	9.23e-03	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.02e-03	0.0	0,28,0	8.76e-04	5.24e-05	8.89e-04	38,8,28			0.0	0.0	0.0
285	0.0	0.03	0.0	0,2,0	8.77e-04	2.76e-05	9.23e-03	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.02e-03	0.0	0,28,0	8.76e-04	5.24e-05	8.89e-04	38,8,28			0.0	0.0	0.0
304	0.0	0.07	0.0	0,2,0	3.17e-05	3.00e-06	0.02	45,18,2	0.0	0	0.0	0.0	0.0
	1.64e-04	5.14e-04	0.0	35,44,0	3.15e-05	1.93e-04	1.48e-04	45,35,44			1.00	0.07	0.93
313	0.0	0.07	0.0	0,2,0	4.50e-05	3.00e-06	0.02	45,18,2	0.0	0	0.0	0.0	0.0
	1.64e-04	7.61e-04	0.0	35,2,0	4.49e-05	1.93e-04	2.21e-04	45,35,2			1.00	0.07	0.93
321	0.0	0.04	0.0	0,2,0	4.50e-05	1.02e-06	0.02	45,18,2	0.0	0	0.0	0.0	0.0
	0.0	7.61e-04	0.0	0,2,0	4.49e-05	6.32e-06	2.21e-04	45,8,2			0.0	0.0	0.0
711	0.0	0.04	0.0	0,2,0	8.77e-04	2.76e-05	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	1.27e-04	3.02e-03	0.0	45,28,0	8.76e-04	1.52e-04	8.89e-04	38,45,28			1.00	0.07	0.93
732	0.0	0.04	0.0	0,2,0	8.77e-04	2.76e-05	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	1.27e-04	3.02e-03	0.0	45,28,0	8.76e-04	1.52e-04	8.89e-04	38,45,28			1.00	0.07	0.93
743	0.0	0.07	0.0	0,2,0	5.63e-05	3.68e-06	0.02	28,18,2	0.0	0	0.0	0.0	0.0
	1.64e-04	1.10e-03	0.0	35,2,0	5.39e-05	1.93e-04	3.12e-04	28,35,2			1.00	0.07	0.93
750	0.0	0.07	0.0	0,2,0	5.74e-05	3.68e-06	0.02	45,18,2	0.0	0	0.0	0.0	0.0
	1.64e-04	1.85e-03	0.0	35,2,0	5.73e-05	1.93e-04	5.25e-04	45,35,2			1.00	0.07	0.93
756	0.0	0.04	0.0	0,2,0	5.74e-05	1.41e-06	0.02	45,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.85e-03	0.0	0,2,0	5.73e-05	6.32e-06	5.25e-04	45,8,2			0.0	0.0	0.0
1067	0.0	0.06	0.0	0,2,0	5.38e-04	6.00e-05	0.02	38,8,2	0.0	0	0.0	0.0	0.0
	1.27e-04	2.52e-03	0.0	45,38,0	5.37e-04	1.52e-04	7.15e-04	38,45,38			1.00	0.07	0.93
1104	0.0	0.06	0.0	0,2,0	5.38e-04	6.00e-05	0.02	38,8,2	0.0	0	0.0	0.0	0.0
	1.27e-04	2.52e-03	0.0	45,38,0	5.37e-04	1.52e-04	7.15e-04	38,45,38			1.00	0.07	0.93
1123	0.0	0.07	0.0	0,2,0	2.15e-04	3.68e-06	0.03	28,18,2	0.0	0	0.0	0.0	0.0
	0.0	5.02e-03	0.0	0,2,0	2.12e-04	8.73e-06	1.42e-03	28,23,2			0.0	0.0	0.0
1132	0.0	0.07	0.0	0,2,0	2.15e-04	4.83e-06	0.03	28,45,2	0.0	0	0.0	0.0	0.0
	0.0	5.06e-03	0.0	0,2,0	2.12e-04	8.73e-06	1.44e-03	28,23,2			0.0	0.0	0.0
1140	0.0	0.04	0.0	0,2,0	5.74e-05	4.83e-06	0.02	45,45,2	0.0	0	0.0	0.0	0.0

**Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO**



1464	0.0	5.06e-03	0.0	0,2,0	5.73e-05	7.62e-06	1.44e-03	45,2,2			0.0	0.0	0.0	0.0
	0.0	0.06	0.0	0,2,0	7.22e-04	6.00e-05	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.17e-03	2.52e-03	0.0	28,38,0	7.21e-04	9.62e-03	7.15e-04	2,28,38			1.00	0.07	0.93	0.93
1490	0.0	0.06	0.0	0,2,0	1.39e-03	6.00e-05	0.02	38,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.03	2.52e-03	0.0	2,38,0	1.39e-03	0.03	7.15e-04	38,2,38			1.00	0.07	0.93	0.93
1494	0.0	0.02	0.0	0,2,0	1.39e-03	1.37e-05	5.37e-03	38,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	0.0	0.0	2,0,0	1.39e-03	0.05	1.51e-05	38,2,2			1.00	0.07	0.93	0.93
1498	0.0	0.02	0.0	0,2,0	1.55e-03	4.60e-06	5.83e-03	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	0.0	0.0	2,0,0	1.55e-03	0.05	1.55e-05	2,2,24			1.00	0.07	0.93	0.93
1501	0.0	0.07	0.0	0,2,0	1.55e-03	4.60e-06	0.03	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	5.02e-03	0.0	38,2,0	1.55e-03	0.03	1.42e-03	2,38,2			1.00	0.07	0.93	0.93
1506	0.0	0.07	0.0	0,2,0	4.68e-04	4.83e-06	0.03	2,45,2	0.0	0	0.0	0.0	0.0	0.0
	8.89e-03	5.06e-03	0.0	38,2,0	4.66e-04	0.01	1.44e-03	2,38,2			1.00	0.07	0.93	0.93
1510	0.0	0.04	0.0	0,2,0	5.66e-05	4.83e-06	0.01	43,45,2	0.0	0	0.0	0.0	0.0	0.0
	8.51e-04	5.06e-03	0.0	38,2,0	5.65e-05	1.01e-03	1.44e-03	43,38,2			1.00	0.07	0.93	0.93
2075	0.0	0.04	0.0	0,2,0	1.24e-03	4.40e-05	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.17e-03	1.18e-03	0.0	28,2,0	1.24e-03	9.62e-03	3.72e-04	2,28,2			1.00	0.07	0.93	0.93
2130	0.0	0.04	0.0	0,2,0	1.43e-03	4.40e-05	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.03	3.35e-03	0.0	2,2,0	1.43e-03	0.03	9.49e-04	2,2,2			1.00	0.07	0.93	0.93
2142	0.0	0.03	0.0	0,2,0	1.43e-03	1.37e-05	9.27e-03	2,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	3.35e-03	0.0	2,2,0	1.43e-03	0.05	9.49e-04	2,2,2			1.00	0.07	0.93	0.93
2150	0.0	0.03	0.0	0,2,0	1.61e-03	5.07e-06	9.85e-03	2,38,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	2.22e-03	0.0	2,38,0	1.61e-03	0.05	6.30e-04	2,2,38			1.00	0.07	0.93	0.93
2157	0.0	0.05	0.0	0,2,0	1.61e-03	1.02e-05	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	4.75e-04	0.0	38,45,0	1.61e-03	0.03	1.44e-04	2,38,45			1.00	0.07	0.93	0.93
2166	0.0	0.05	0.0	0,2,0	9.41e-04	1.02e-05	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.93e-03	2.25e-04	0.0	2,35,0	9.40e-04	0.01	6.60e-05	2,2,35			1.00	0.07	0.93	0.93
2174	0.0	0.03	0.0	0,2,0	9.93e-05	7.72e-06	0.01	28,43,2	0.0	0	0.0	0.0	0.0	0.0
	7.57e-03	2.25e-04	0.0	2,35,0	9.91e-05	8.94e-03	6.60e-05	28,2,35			1.00	0.07	0.93	0.93
2638	0.0	0.03	0.0	0,2,0	9.93e-05	7.72e-06	9.24e-03	28,43,2	0.0	0	0.0	0.0	0.0	0.0
	7.57e-03	0.0	0.0	2,0,0	9.91e-05	8.94e-03	9.47e-06	28,2,12			1.00	0.07	0.93	0.93
2654	0.0	0.03	0.0	0,2,0	9.41e-04	1.02e-05	0.01	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.93e-03	0.0	0.0	2,0,0	9.40e-04	0.01	1.63e-05	2,2,8			1.00	0.07	0.93	0.93
2780	0.0	0.03	0.0	0,2,0	1.61e-03	1.02e-05	0.01	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.93e-03	4.75e-04	0.0	2,45,0	1.61e-03	0.01	1.44e-04	2,2,45			1.00	0.07	0.93	0.93
2787	0.0	0.03	0.0	0,2,0	1.61e-03	5.07e-06	9.85e-03	2,38,2	0.0	0	0.0	0.0	0.0	0.0
	3.77e-03	2.22e-03	0.0	28,38,0	1.61e-03	4.46e-03	6.30e-04	2,28,38			1.00	0.07	0.93	0.93
2796	0.0	0.03	0.0	0,2,0	1.43e-03	7.23e-06	9.27e-03	2,14,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.35e-03	0.0	0,2,0	1.43e-03	2.36e-05	9.49e-04	2,23,2			0.0	0.0	0.0	0.0
2812	0.0	0.03	0.0	0,2,0	1.43e-03	2.69e-05	9.38e-03	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	5.61e-05	3.35e-03	0.0	45,2,0	1.43e-03	7.22e-05	9.49e-04	2,45,2			1.00	0.07	0.93	0.93
2836	0.0	0.03	0.0	0,2,0	1.24e-03	2.69e-05	9.38e-03	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	5.61e-05	1.18e-03	0.0	45,2,0	1.24e-03	7.22e-05	3.72e-04	2,45,2			1.00	0.07	0.93	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.04	0.07	0.0		1.61e-03	0.05	0.03		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
48	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0 cm	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.08	daN 933.5	44	0.08	daN 164.8	44	0.05	daN -1.020e+04	daN cm 2.118e+05	2

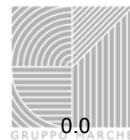
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
321	0.0	0.04	0.0	0,2,0	3.45e-05	1.96e-06	0.01	45,8,2	0.0	0	0.0	0.0	0.0
	4.38e-04	4.68e-04	0.0	45,28,0	3.45e-05	5.16e-04	1.37e-04	45,45,28			1.00	0.07	0.93
328	0.0	0.04	0.0	0,2,0	3.45e-05	1.96e-06	0.01	45,8,2	0.0	0	0.0	0.0	0.0
	4.38e-04	4.68e-04	0.0	45,28,0	3.45e-05	5.16e-04	1.37e-04	45,45,28			1.00	0.07	0.93
338	0.0	0.04	0.0	0,38,0	4.43e-05	8.93e-05	0.01	44,2,38	0.0	0	0.0	0.0	0.0
	1.89e-04	5.29e-04	0.0	35,44,0	4.38e-05	2.42e-04	1.94e-04	44,35,38			1.00	0.07	0.93
345	0.0	0.04	0.0	0,38,0	6.78e-05	1.12e-04	0.01	44,24,38	0.0	0	0.0	0.0	0.0
	1.89e-04	5.29e-04	0.0	35,44,0	6.75e-05	2.42e-04	2.68e-04	44,35,2			1.00	0.07	0.93
353	0.0	0.03	0.0	0,2,0	7.13e-05	5.30e-04	0.01	44,8,2	0.0	0	0.0	0.0	0.0
	5.47e-04	4.85e-04	0.0	45,8,0	7.10e-05	9.23e-04	7.49e-04	44,45,8			1.00	0.07	0.93
360	2.69e-03	0.03	0.0	45,28,0	7.13e-05	3.48e-03	0.01	44,45,28	0.0	0	0.95	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



	8.02e-04	2.65e-04	0.0	38,34,0	7.10e-05	1.23e-03	7.49e-04	44,38,8			1.00	0.07	0.93
379	2.69e-03	0.03	0.0	45,28,0	3.80e-05	3.48e-03	0.01	44,45,28	0.0	0	0.95	0.03	0.97
	8.02e-04	2.40e-04	0.0	38,35,0	3.78e-05	1.23e-03	6.26e-04	44,38,8			1.00	0.07	0.93
389	0.0	0.02	0.0	0,38,0	1.05e-04	1.82e-04	6.47e-03	28,8,38	0.0	0	0.0	0.0	0.0
	2.46e-04	1.55e-03	0.0	35,44,0	1.05e-04	2.92e-04	4.41e-04	28,35,44			1.00	0.07	0.93
402	0.0	0.02	0.0	0,38,0	1.05e-04	1.82e-04	6.47e-03	28,8,38	0.0	0	0.0	0.0	0.0
	2.46e-04	1.55e-03	0.0	35,44,0	1.05e-04	2.92e-04	4.41e-04	28,35,44			1.00	0.07	0.93
756	0.0	0.04	0.0	0,2,0	3.66e-05	2.60e-06	0.01	43,8,2	0.0	0	0.0	0.0	0.0
	4.38e-04	7.82e-04	0.0	45,2,0	3.65e-05	5.16e-04	2.24e-04	43,45,2			1.00	0.07	0.93
761	0.0	0.04	0.0	0,2,0	3.66e-05	2.60e-06	0.01	43,8,2	0.0	0	0.0	0.0	0.0
	4.38e-04	7.82e-04	0.0	45,2,0	3.65e-05	5.16e-04	2.24e-04	43,45,2			1.00	0.07	0.93
769	0.0	0.04	0.0	0,38,0	4.43e-05	8.93e-05	0.01	44,2,38	0.0	0	0.0	0.0	0.0
	1.89e-04	5.29e-04	0.0	35,44,0	4.38e-05	2.42e-04	1.94e-04	44,35,38			1.00	0.07	0.93
774	0.0	0.04	0.0	0,38,0	8.20e-05	1.12e-04	0.01	44,24,38	0.0	0	0.0	0.0	0.0
	1.89e-04	7.68e-04	0.0	35,2,0	8.17e-05	2.59e-04	2.68e-04	44,25,2			1.00	0.07	0.93
780	0.0	0.03	0.0	0,2,0	9.71e-05	5.45e-04	0.01	44,8,2	0.0	0	0.0	0.0	0.0
	5.47e-04	7.68e-04	0.0	45,2,0	9.68e-05	9.23e-04	7.49e-04	44,45,8			1.00	0.07	0.93
787	2.69e-03	0.03	0.0	45,2,0	9.71e-05	3.48e-03	0.01	44,45,2	0.0	0	0.95	0.03	0.97
	8.02e-04	6.18e-04	0.0	38,28,0	9.68e-05	1.23e-03	7.49e-04	44,38,8			1.00	0.07	0.93
798	2.69e-03	0.03	0.0	45,2,0	3.80e-05	3.48e-03	0.01	44,45,2	0.0	0	0.95	0.03	0.97
	8.02e-04	2.40e-04	0.0	38,35,0	3.78e-05	1.23e-03	6.26e-04	44,38,8			1.00	0.07	0.93
808	0.0	0.02	0.0	0,8,0	1.05e-04	1.82e-04	9.13e-03	28,8,8	0.0	0	0.0	0.0	0.0
	2.84e-04	1.55e-03	0.0	34,44,0	1.05e-04	3.39e-04	4.41e-04	28,34,44			1.00	0.07	0.93
821	0.0	0.02	0.0	0,8,0	1.05e-04	1.82e-04	9.13e-03	28,8,8	0.0	0	0.0	0.0	0.0
	2.84e-04	1.55e-03	0.0	34,44,0	1.05e-04	3.39e-04	4.41e-04	28,34,44			1.00	0.07	0.93
1140	0.0	0.04	0.0	0,2,0	1.08e-04	9.79e-06	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.56e-03	0.0	0,38,0	1.07e-04	2.69e-05	1.02e-03	44,2,38			0.0	0.0	0.0
1147	0.0	0.04	0.0	0,2,0	1.08e-04	9.79e-06	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.56e-03	0.0	0,38,0	1.07e-04	2.69e-05	1.02e-03	44,2,38			0.0	0.0	0.0
1157	0.0	0.04	0.0	0,2,0	2.93e-05	4.52e-05	0.01	46,2,2	0.0	0	0.0	0.0	0.0
	1.43e-03	1.88e-03	0.0	45,28,0	2.90e-05	1.75e-03	6.05e-04	46,45,28			1.00	0.07	0.93
1164	0.0	0.04	0.0	0,2,0	8.20e-05	1.44e-04	0.01	44,23,2	0.0	0	0.0	0.0	0.0
	1.43e-03	2.35e-03	0.0	45,28,0	8.17e-05	1.75e-03	7.07e-04	44,45,28			1.00	0.07	0.93
1172	0.0	0.03	0.0	0,2,0	1.02e-04	5.45e-04	0.01	44,8,2	0.0	0	0.0	0.0	0.0
	5.41e-04	2.35e-03	0.0	45,28,0	1.02e-04	7.07e-04	8.19e-04	44,45,2			1.00	0.07	0.93
1179	0.0	0.04	0.0	0,2,0	1.02e-04	8.53e-04	0.02	44,8,2	0.0	0	0.0	0.0	0.0
	3.08e-04	1.91e-03	0.0	45,28,0	1.02e-04	5.28e-04	8.19e-04	44,25,2			1.00	0.07	0.93
1198	0.0	0.04	0.0	0,2,0	5.65e-05	8.53e-04	0.02	38,8,2	0.0	0	0.0	0.0	0.0
	3.08e-04	9.83e-04	0.0	45,2,0	5.57e-05	5.28e-04	3.25e-04	38,25,2			1.00	0.07	0.93
1208	0.0	0.04	0.0	0,2,0	5.90e-05	1.31e-04	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	2.84e-04	2.35e-04	0.0	34,45,0	5.86e-05	3.39e-04	7.70e-05	28,34,45			1.00	0.07	0.93
1221	0.0	0.04	0.0	0,2,0	5.90e-05	1.31e-04	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	2.84e-04	2.35e-04	0.0	34,45,0	5.86e-05	3.39e-04	7.70e-05	28,34,45			1.00	0.07	0.93
1510	0.0	0.04	0.0	0,2,0	1.08e-04	9.79e-06	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.24e-04	3.56e-03	0.0	35,38,0	1.07e-04	1.84e-04	1.02e-03	44,35,38			1.00	0.07	0.93
1513	0.0	0.04	0.0	0,2,0	1.08e-04	2.71e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.24e-04	3.56e-03	0.0	35,38,0	1.07e-04	1.84e-04	1.02e-03	44,35,38			1.00	0.07	0.93
1519	0.0	0.04	0.0	0,2,0	7.24e-05	2.97e-05	0.01	44,45,2	0.0	0	0.0	0.0	0.0
	1.43e-03	2.94e-03	0.0	45,28,0	7.24e-05	1.75e-03	8.64e-04	44,45,28			1.00	0.07	0.93
1628	0.0	0.04	0.0	0,2,0	7.23e-05	1.44e-04	0.01	44,23,2	0.0	0	0.0	0.0	0.0
	1.43e-03	3.99e-03	0.0	45,38,0	7.20e-05	1.75e-03	1.20e-03	44,45,2			1.00	0.07	0.93
1630	0.0	0.03	0.0	0,2,0	1.02e-04	3.63e-04	0.01	44,24,2	0.0	0	0.0	0.0	0.0
	5.41e-04	6.65e-03	0.0	45,38,0	1.02e-04	7.07e-04	1.89e-03	44,45,38			1.00	0.07	0.93
1635	0.0	0.05	0.0	0,2,0	3.89e-04	5.65e-04	0.02	2,24,2	0.0	0	0.0	0.0	0.0
	0.0	6.65e-03	0.0	0,38,0	3.87e-04	5.71e-04	2.02e-03	2,23,2			0.0	0.0	0.0
1654	0.0	0.05	0.0	0,2,0	3.89e-04	5.65e-04	0.02	2,24,2	0.0	0	0.0	0.0	0.0
	0.0	6.51e-03	0.0	0,2,0	3.87e-04	2.96e-04	2.02e-03	2,23,2			0.0	0.0	0.0
1662	0.0	0.05	0.0	0,2,0	1.33e-04	6.93e-04	0.02	38,23,2	0.0	0	0.0	0.0	0.0
	1.50e-03	8.35e-04	0.0	45,34,0	1.31e-04	1.85e-03	3.13e-04	38,45,33			1.00	0.07	0.93
1675	0.0	0.05	0.0	0,2,0	1.33e-04	6.93e-04	0.02	38,23,2	0.0	0	0.0	0.0	0.0
	1.50e-03	8.35e-04	0.0	45,34,0	1.31e-04	1.85e-03	3.13e-04	38,45,33			1.00	0.07	0.93
2174	0.0	0.03	0.0	0,2,0	8.38e-05	6.37e-06	0.01	38,8,2	0.0	0	0.0	0.0	0.0
	3.91e-03	2.00e-03	0.0	28,38,0	8.34e-05	4.64e-03	5.79e-04	38,2,38			1.00	0.07	0.93
2181	0.0	0.03	0.0	0,2,0	8.38e-05	2.71e-05	0.01	38,2,2	0.0	0	0.0	0.0	0.0
	3.91e-03	2.94e-03	0.0	28,28,0	8.34e-05	4.64e-03	8.64e-04	38,2,28			1.00	0.07	0.93
2191	0.0	0.03	0.0	0,2,0	7.24e-05	5.57e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.85e-03	2.94e-03	0.0	34,28,0	7.24e-05	2.20e-03	8.64e-04	44,34,28			1.00	0.07	0.93
2198	0.0	0.03	0.0	0,2,0	7.19e-05	1.91e-04	0.01	28,23,2	0.0	0	0.0	0.0	0.0
	1.85e-03	3.99e-03	0.0	34,38,0	7.13e-05	2.20e-03	1.20e-03	28,33,2			1.00	0.07	0.93
2206	0.0	0.03	0.0	0,2,0	6.46e-05	7.40e-04	9.68e-03	38,23,2	0.0	0	0.0	0.0	0.0
	1.83e-03	6.65e-03	0.0	33,38,0	6.39e-05	2.58e-03	1.89e-03	38,33,38			1.00	0.07	0.93
2219	0.0	0.05	0.0	0,2,0	5.65e-04	1.33e-03	0.02	2,23,2	0.0	0	0.0	0.0	0.0
	2.28e-03	6.65e-03	0.0	33,38,0	5.64e-04	3.21e-03	2.02e-03	2,33,2			1.00	0.07	0.93
2264	0.0	0.05	0.0	0,2,0	3.19e-03	1.33e-03	0.02	2,23,2	0.0	0	0.0	0.0	0.0
	0.02	6.51e-03	0.0	28,2,0	3.19e-03	0.02	2.02e-03	2,28,2			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2276	0.0	0.01	0.0	0,2,0	3.19e-03	1.18e-04	5.38e-03	2,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	1.76e-04	0.0	2,45,0	3.19e-03	0.05	2.35e-04	2,2,45			1.00	0.07	0.93	
2286	0.0	0.05	0.0	0,2,0	1.98e-03	1.17e-03	0.02	28,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	8.35e-04	0.0	2,34,0	1.97e-03	0.05	9.11e-04	28,2,18			1.00	0.07	0.93	
2299	0.0	0.05	0.0	0,2,0	1.98e-03	1.17e-03	0.02	28,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.01	8.35e-04	0.0	2,34,0	1.97e-03	0.02	9.11e-04	28,2,18			1.00	0.07	0.93	
2408	0.0	0.03	0.0	0,2,0	1.98e-03	1.17e-03	0.01	28,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.01	0.0	0.0	2,0,0	1.97e-03	0.02	9.11e-04	28,2,18			1.00	0.07	0.93	
2453	0.0	0.03	0.0	0,2,0	1.98e-03	1.17e-03	0.01	28,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	0.0	0.0	2,0,0	1.97e-03	0.05	9.11e-04	28,2,18			1.00	0.07	0.93	
2472	0.0	0.01	0.0	0,2,0	3.19e-03	1.18e-04	5.38e-03	2,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.04	1.76e-04	0.0	2,45,0	3.19e-03	0.05	2.35e-04	2,2,45			1.00	0.07	0.93	
2492	0.0	0.03	0.0	0,2,0	3.19e-03	1.33e-03	0.01	2,23,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	2.43e-03	0.0	28,44,0	3.19e-03	0.02	1.37e-03	2,28,43			1.00	0.07	0.93	
2511	0.0	0.03	0.0	0,2,0	5.65e-04	1.33e-03	0.01	2,23,2	0.0	0	0.0	0.0	0.0	0.0
	2.28e-03	3.12e-03	0.0	33,44,0	5.64e-04	3.21e-03	1.66e-03	2,33,43			1.00	0.07	0.93	
2562	0.0	0.02	0.0	0,2,0	1.53e-05	7.40e-04	8.67e-03	28,23,2	0.0	0	0.0	0.0	0.0	0.0
	1.83e-03	3.12e-03	0.0	33,44,0	1.50e-05	2.58e-03	1.66e-03	28,33,43			1.00	0.07	0.93	
2578	0.0	0.02	0.0	0,2,0	7.19e-05	1.91e-04	9.02e-03	28,23,2	0.0	0	0.0	0.0	0.0	0.0
	1.85e-03	2.43e-03	0.0	34,46,0	7.13e-05	2.20e-03	3.86e-04	28,33,45			1.00	0.07	0.93	
2598	0.0	0.02	0.0	0,2,0	7.19e-05	5.57e-05	9.02e-03	28,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.85e-03	1.77e-03	0.0	34,45,0	7.13e-05	2.20e-03	5.48e-04	28,34,45			1.00	0.07	0.93	
2621	0.0	0.02	0.0	0,2,0	3.72e-05	1.31e-05	8.53e-03	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	3.91e-03	1.30e-03	0.0	28,43,0	3.71e-05	4.64e-03	3.86e-04	44,2,43			1.00	0.07	0.93	
2638	0.0	0.02	0.0	0,2,0	3.72e-05	6.37e-06	8.53e-03	44,8,2	0.0	0	0.0	0.0	0.0	0.0
	3.91e-03	7.62e-05	0.0	28,45,0	3.71e-05	4.64e-03	3.20e-05	44,2,45			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.04	0.05	0.0		3.19e-03	0.05	0.02		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
49	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0 cm	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.23	451.9	12	0.05	-167.9	13	0.09	-805.5	-2.573e+04	14

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
125	0.0	0.01	0.0	0,38,0	9.78e-05	1.60e-03	5.32e-03	12,34,38	0.0	0	0.0	0.0	0.0
	2.66e-03	2.30e-03	0.0	35,34,0	9.76e-05	6.47e-03	4.31e-03	12,35,34			1.00	0.07	0.93
126	0.0	0.02	0.0	0,8,0	9.78e-05	1.60e-03	6.38e-03	12,34,34	0.0	0	0.0	0.0	0.0
	2.66e-03	2.45e-03	0.0	35,34,0	9.76e-05	6.47e-03	4.31e-03	12,35,34			1.00	0.07	0.93
127	0.0	0.02	0.0	0,8,0	8.15e-05	1.55e-03	6.38e-03	12,35,34	0.0	0	0.0	0.0	0.0
	2.48e-03	2.45e-03	0.0	35,34,0	8.13e-05	6.26e-03	4.27e-03	12,35,34			1.00	0.07	0.93
594	0.0	0.01	0.0	0,38,0	9.78e-05	1.60e-03	5.32e-03	12,34,38	0.0	0	0.0	0.0	0.0
	6.49e-03	4.81e-03	0.0	34,36,0	9.76e-05	0.02	5.92e-03	12,34,34			1.00	0.07	0.93
595	0.0	0.02	0.0	0,8,0	9.78e-05	1.60e-03	6.38e-03	12,34,34	0.0	0	0.0	0.0	0.0
	6.51e-03	4.81e-03	0.0	34,36,0	9.76e-05	0.02	5.92e-03	12,34,34			1.00	0.07	0.93
596	0.0	0.02	0.0	0,8,0	8.15e-05	1.55e-03	6.38e-03	12,35,34	0.0	0	0.0	0.0	0.0
	6.51e-03	4.80e-03	0.0	34,34,0	8.13e-05	0.02	5.89e-03	12,34,35			1.00	0.07	0.93
952	0.0	0.01	0.0	0,38,0	6.81e-05	1.07e-04	4.05e-03	12,35,38	0.0	0	0.0	0.0	0.0
	7.62e-03	5.63e-03	0.0	34,34,0	6.79e-05	0.02	6.17e-03	12,34,34			1.00	0.07	0.93
953	0.0	0.01	0.0	0,28,0	6.81e-05	1.17e-04	4.42e-03	12,34,28	0.0	0	0.0	0.0	0.0
	7.64e-03	5.63e-03	0.0	34,34,0	6.79e-05	0.02	6.17e-03	12,34,34			1.00	0.07	0.93
954	0.0	0.01	0.0	0,28,0	4.65e-05	1.17e-04	4.42e-03	14,34,28	0.0	0	0.0	0.0	0.0
	7.64e-03	5.60e-03	0.0	34,34,0	4.64e-05	0.02	6.12e-03	13,34,34			1.00	0.07	0.93
1599	0.0	8.85e-03	0.0	0,8,0	1.76e-05	2.39e-04	3.21e-03	12,34,8	0.0	0	0.0	0.0	0.0
	7.62e-03	5.63e-03	0.0	34,34,0	1.76e-05	0.02	6.87e-03	12,34,34			1.00	0.07	0.93
1600	0.0	9.04e-03	0.0	0,28,0	1.76e-05	2.39e-04	3.28e-03	12,34,28	0.0	0	0.0	0.0	0.0
	7.64e-03	5.63e-03	0.0	34,34,0	1.76e-05	0.02	6.87e-03	12,34,34			1.00	0.07	0.93
1601	0.0	9.04e-03	0.0	0,28,0	8.32e-06	2.02e-04	3.28e-03	13,34,28	0.0	0	0.0	0.0	0.0
	7.64e-03	5.60e-03	0.0	34,34,0	8.31e-06	0.02	6.86e-03	13,34,35			1.00	0.07	0.93
1889	0.0	7.65e-03	0.0	0,8,0	2.41e-05	1.30e-03	3.12e-03	18,34,28	0.0	0	0.0	0.0	0.0
	7.42e-03	5.62e-03	0.0	35,34,0	2.39e-05	0.02	6.87e-03	18,35,34			1.00	0.07	0.93
1890	0.0	7.65e-03	0.0	0,8,0	2.87e-05	1.30e-03	3.14e-03	12,34,34	0.0	0	0.0	0.0	0.0
	7.43e-03	5.62e-03	0.0	35,34,0	2.86e-05	0.02	6.87e-03	12,35,34			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1891	0.0	7.34e-03	0.0	0,28,0	2.87e-05	1.27e-03	3.14e-03	12,34,34	0.0	0	0.0	0.0	0.0
	7.43e-03	5.60e-03	0.0	35,34,0	2.86e-05	0.02	6.86e-03	12,35,35			1.00	0.07	0.93
2664	0.0	6.26e-03	0.0	0,2,0	2.41e-05	1.30e-03	3.12e-03	18,34,28	0.0	0	0.0	0.0	0.0
	2.84e-03	2.95e-03	0.0	35,34,0	2.39e-05	7.19e-03	3.49e-03	18,35,34			1.00	0.07	0.93
2665	0.0	6.26e-03	0.0	0,2,0	2.87e-05	1.30e-03	3.14e-03	12,34,34	0.0	0	0.0	0.0	0.0
	2.84e-03	3.05e-03	0.0	35,34,0	2.86e-05	7.19e-03	3.53e-03	12,35,35			1.00	0.07	0.93
2666	0.0	5.96e-03	0.0	0,28,0	2.87e-05	1.27e-03	3.14e-03	12,34,34	0.0	0	0.0	0.0	0.0
	2.70e-03	3.05e-03	0.0	35,34,0	2.86e-05	7.09e-03	3.53e-03	12,35,35			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	7.64e-03	0.02	0.0	9.78e-05	0.02	6.87e-03	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
50	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.08	daN -99.6	26	0.03	daN 59.1	23	0.06	daN -435.1	daN cm -7750.3	11

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
420	1.21e-03	0.01	0.0	45,28,0	6.39e-05	3.75e-03	7.56e-03	43,45,44	0.0	0	0.94	0.03	0.97
	1.01e-03	7.54e-04	0.0	45,44,0	4.13e-05	7.15e-03	6.72e-03	43,45,44			1.00	0.07	0.93
421	1.21e-03	0.01	0.0	45,28,0	6.39e-05	3.75e-03	7.56e-03	43,45,44	0.0	0	0.94	0.03	0.97
	1.01e-03	7.54e-04	0.0	45,44,0	4.13e-05	7.15e-03	6.72e-03	43,45,44			1.00	0.07	0.93
839	6.44e-03	0.01	0.0	45,28,0	6.39e-05	5.40e-03	7.56e-03	43,45,44	0.0	0	0.94	0.03	0.97
	1.14e-03	8.28e-04	0.0	44,45,0	4.13e-05	7.15e-03	6.72e-03	43,45,44			1.00	0.07	0.93
840	6.44e-03	0.01	0.0	45,28,0	6.39e-05	5.40e-03	7.56e-03	43,45,44	0.0	0	0.94	0.03	0.97
	1.14e-03	8.28e-04	0.0	44,45,0	4.13e-05	7.15e-03	6.72e-03	43,45,44			1.00	0.07	0.93
1239	6.44e-03	0.01	0.0	45,28,0	1.97e-05	5.40e-03	7.39e-03	43,45,44	0.0	0	0.94	0.03	0.97
	1.15e-03	8.96e-04	0.0	45,43,0	1.29e-05	3.55e-03	3.10e-03	43,44,45			1.00	0.07	0.93
1240	6.44e-03	0.01	0.0	45,28,0	1.97e-05	5.40e-03	7.39e-03	43,45,44	0.0	0	0.94	0.03	0.97
	1.15e-03	8.96e-04	0.0	45,43,0	1.29e-05	3.55e-03	3.10e-03	43,44,45			1.00	0.07	0.93
1695	5.23e-03	0.01	0.0	45,44,0	4.52e-05	4.62e-03	7.32e-03	43,45,44	0.0	0	0.94	0.03	0.97
	2.55e-03	2.44e-03	0.0	45,44,0	2.85e-05	6.17e-03	2.66e-03	43,45,44			1.00	0.07	0.93
1696	5.23e-03	0.01	0.0	45,44,0	4.52e-05	4.62e-03	7.32e-03	43,45,44	0.0	0	0.94	0.03	0.97
	2.55e-03	2.44e-03	0.0	45,44,0	2.85e-05	6.17e-03	2.66e-03	43,45,44			1.00	0.07	0.93
2334	0.02	0.02	0.0	45,44,0	8.84e-05	0.02	0.02	43,45,44	0.0	0	0.94	0.03	0.97
	0.06	0.05	0.0	45,44,0	5.42e-05	0.15	0.02	43,45,44			1.00	0.07	0.93
2335	0.02	0.02	0.0	45,44,0	8.84e-05	0.02	0.02	43,45,44	0.0	0	0.94	0.03	0.97
	0.06	0.05	0.0	45,44,0	5.42e-05	0.15	0.02	43,45,44			1.00	0.07	0.93
2450	0.02	0.02	0.0	45,44,0	8.84e-05	0.02	0.02	43,45,44	0.0	0	0.94	0.03	0.97
	0.06	0.05	0.0	45,44,0	5.42e-05	0.15	0.02	43,45,44			1.00	0.07	0.93
2451	0.02	0.02	0.0	45,44,0	8.84e-05	0.02	0.02	43,45,44	0.0	0	0.94	0.03	0.97
	0.06	0.05	0.0	45,44,0	5.42e-05	0.15	0.02	43,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
	0.06	0.05	0.0		8.84e-05	0.15	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
51	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.0	daN 1.26e-06	25	0.0	daN 1.26e-06	25	0.01	daN 0.0	daN cm 1036.9	25

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2720	2.18e-04	4.76e-04	0.0	10,23,0	1.21e-05	1.53e-03	1.71e-03	23,25,23	0.0	0	0.37	0.08	0.92

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	3.72e-03	2.84e-03	0.0	25,23,0	1.20e-05	0.01	0.01	23,25,25			1.00	0.07	0.93
2989	2.18e-04	4.76e-04	0.0	10,23,0	1.21e-05	1.53e-03	1.71e-03	23,25,23	0.0	0	0.37	0.08	0.92
	3.72e-03	2.84e-03	0.0	25,23,0	1.20e-05	0.01	0.01	23,25,25			1.00	0.07	0.93
2992	2.18e-04	4.76e-04	0.0	10,23,0	1.21e-05	1.53e-03	1.71e-03	23,25,23	0.0	0	0.37	0.08	0.92
	3.72e-03	2.84e-03	0.0	25,23,0	1.20e-05	0.01	0.01	23,25,25			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	3.72e-03	2.84e-03	0.0		1.21e-05	0.01	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
52	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	4.60e-03	-5.6	18	2.88e-03	-5.6	18	0.02	2.7	2056.3	8

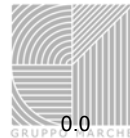
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2652	0.01	0.01	0.0	25,24,0	1.28e-03	0.05	0.05	23,25,24	0.0	0	0.40	0.07	0.93
	0.04	0.03	0.0	24,25,0	1.29e-03	0.16	0.14	23,24,24			1.00	0.07	0.93
2722	0.01	0.01	0.0	25,24,0	1.28e-03	0.05	0.05	23,25,24	0.0	0	0.40	0.07	0.93
	0.04	0.03	0.0	24,25,0	1.29e-03	0.16	0.14	23,24,24			1.00	0.07	0.93
2985	0.01	0.01	0.0	25,24,0	1.28e-03	0.05	0.05	23,25,24	0.0	0	0.40	0.07	0.93
	0.04	0.03	0.0	24,25,0	1.29e-03	0.16	0.14	23,24,24			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.04	0.03	0.0		1.29e-03	0.16	0.14		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
53	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	772.2	46	0.08	166.2	44	0.05	-9790.6	1.892e+05	8

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
320	0.0	0.04	0.0	0,2,0	3.39e-05	1.95e-06	0.01	28,11,2	0.0	0	0.0	0.0	0.0
	3.02e-04	6.17e-04	0.0	45,28,0	3.31e-05	3.61e-04	1.75e-04	28,45,28			1.00	0.07	0.93
330	0.0	0.04	0.0	0,2,0	3.39e-05	1.95e-06	0.01	28,11,2	0.0	0	0.0	0.0	0.0
	3.02e-04	6.17e-04	0.0	45,28,0	3.31e-05	3.61e-04	1.75e-04	28,45,28			1.00	0.07	0.93
336	0.0	0.04	0.0	0,38,0	3.21e-05	6.08e-05	0.01	46,43,38	0.0	0	0.0	0.0	0.0
	1.95e-04	4.97e-04	0.0	35,44,0	3.18e-05	2.55e-04	1.54e-04	46,35,43			1.00	0.07	0.93
344	0.0	0.04	0.0	0,38,0	4.88e-05	8.78e-05	0.01	44,8,38	0.0	0	0.0	0.0	0.0
	1.95e-04	4.97e-04	0.0	35,44,0	4.84e-05	2.55e-04	2.32e-04	44,35,2			1.00	0.07	0.93
352	0.0	0.04	0.0	0,2,0	5.38e-05	4.49e-04	0.01	44,43,2	0.0	0	0.0	0.0	0.0
	2.82e-04	4.15e-04	0.0	45,44,0	5.32e-05	7.95e-04	5.08e-04	44,45,43			1.00	0.07	0.93
359	1.12e-03	0.04	0.0	45,28,0	5.38e-05	1.87e-03	0.01	44,45,28	0.0	0	0.95	0.03	0.97
	7.68e-04	2.75e-04	0.0	43,34,0	5.32e-05	1.20e-03	5.08e-04	44,43,43			1.00	0.07	0.93
376	1.12e-03	0.04	0.0	45,28,0	2.72e-05	1.87e-03	0.01	44,45,28	0.0	0	0.95	0.03	0.97
	7.68e-04	2.65e-04	0.0	43,33,0	2.69e-05	1.20e-03	3.39e-04	44,43,45			1.00	0.07	0.93
388	0.0	0.01	0.0	0,38,0	1.14e-04	1.73e-04	5.48e-03	28,18,38	0.0	0	0.0	0.0	0.0
	2.01e-04	1.26e-03	0.0	35,44,0	1.13e-04	2.40e-04	3.61e-04	28,35,43			1.00	0.07	0.93
394	0.0	0.01	0.0	0,38,0	1.14e-04	1.73e-04	5.48e-03	28,18,38	0.0	0	0.0	0.0	0.0
	2.01e-04	1.26e-03	0.0	35,44,0	1.13e-04	2.40e-04	3.61e-04	28,35,43			1.00	0.07	0.93
755	0.0	0.04	0.0	0,2,0	3.39e-05	2.77e-06	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	3.02e-04	8.80e-04	0.0	45,2,0	3.31e-05	3.61e-04	2.50e-04	28,45,2			1.00	0.07	0.93
763	0.0	0.04	0.0	0,2,0	3.39e-05	2.77e-06	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	3.02e-04	8.80e-04	0.0	45,2,0	3.31e-05	3.61e-04	2.50e-04	28,45,2			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



767	0.0	0.04	0.0	0,38,0	3.21e-05	6.08e-05	0.01	46,43,38	0.0	0	0.0	0.0	0.0	0.0
	1.95e-04	4.97e-04	0.0	35,44,0	3.18e-05	2.55e-04	1.54e-04	46,35,43			1.00	0.07	0.93	
773	0.0	0.04	0.0	0,38,0	5.59e-05	8.78e-05	0.01	46,8,38	0.0	0	0.0	0.0	0.0	0.0
	1.95e-04	8.59e-04	0.0	35,2,0	5.57e-05	2.55e-04	2.68e-04	46,35,38			1.00	0.07	0.93	
779	0.0	0.04	0.0	0,2,0	6.79e-05	4.49e-04	0.01	44,43,2	0.0	0	0.0	0.0	0.0	0.0
	2.82e-04	8.59e-04	0.0	45,2,0	6.76e-05	7.95e-04	5.08e-04	44,45,43			1.00	0.07	0.93	
786	1.12e-03	0.04	0.0	45,2,0	6.79e-05	1.87e-03	0.02	44,45,2	0.0	0	0.95	0.03	0.97	
	7.68e-04	6.14e-04	0.0	43,28,0	6.76e-05	1.20e-03	5.08e-04	44,43,43			1.00	0.07	0.93	
795	1.12e-03	0.04	0.0	45,2,0	2.72e-05	1.87e-03	0.02	44,45,2	0.0	0	0.95	0.03	0.97	
	7.68e-04	2.65e-04	0.0	43,33,0	2.69e-05	1.20e-03	3.39e-04	44,43,45			1.00	0.07	0.93	
807	0.0	0.02	0.0	0,2,0	1.14e-04	1.73e-04	8.71e-03	28,18,2	0.0	0	0.0	0.0	0.0	0.0
	2.73e-04	1.26e-03	0.0	34,44,0	1.13e-04	3.25e-04	3.61e-04	28,34,43			1.00	0.07	0.93	
813	0.0	0.02	0.0	0,2,0	1.14e-04	1.73e-04	8.71e-03	28,18,2	0.0	0	0.0	0.0	0.0	0.0
	2.73e-04	1.26e-03	0.0	34,44,0	1.13e-04	3.25e-04	3.61e-04	28,34,43			1.00	0.07	0.93	
1139	0.0	0.04	0.0	0,2,0	7.06e-05	1.26e-05	0.01	44,43,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.92e-03	0.0	0,38,0	7.03e-05	2.93e-05	1.11e-03	44,43,38			0.0	0.0	0.0	0.0
1149	0.0	0.04	0.0	0,2,0	7.06e-05	1.26e-05	0.01	44,43,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.92e-03	0.0	0,38,0	7.03e-05	2.93e-05	1.11e-03	44,43,38			0.0	0.0	0.0	0.0
1155	0.0	0.04	0.0	0,2,0	2.58e-05	4.44e-05	0.01	34,43,2	0.0	0	0.0	0.0	0.0	0.0
	7.53e-04	2.27e-03	0.0	45,28,0	2.55e-05	9.76e-04	7.03e-04	34,45,28			1.00	0.07	0.93	
1163	0.0	0.04	0.0	0,2,0	5.59e-05	1.52e-04	0.01	46,43,2	0.0	0	0.0	0.0	0.0	0.0
	7.53e-04	2.77e-03	0.0	45,28,0	5.57e-05	9.76e-04	8.20e-04	46,45,28			1.00	0.07	0.93	
1171	0.0	0.03	0.0	0,2,0	8.12e-05	3.93e-04	0.01	44,2,2	0.0	0	0.0	0.0	0.0	0.0
	6.52e-05	2.77e-03	0.0	45,28,0	8.05e-05	3.23e-04	8.34e-04	44,43,2			1.00	0.07	0.93	
1178	0.0	0.04	0.0	0,2,0	8.12e-05	6.68e-04	0.02	44,2,2	0.0	0	0.0	0.0	0.0	0.0
	3.44e-04	2.13e-03	0.0	45,2,0	8.05e-05	6.44e-04	8.34e-04	44,43,2			1.00	0.07	0.93	
1195	0.0	0.04	0.0	0,2,0	4.42e-05	6.68e-04	0.02	38,2,2	0.0	0	0.0	0.0	0.0	0.0
	3.44e-04	9.42e-04	0.0	45,2,0	4.31e-05	6.44e-04	2.98e-04	38,43,2			1.00	0.07	0.93	
1207	0.0	0.04	0.0	0,2,0	6.39e-05	9.52e-05	0.01	28,28,2	0.0	0	0.0	0.0	0.0	0.0
	2.73e-04	2.19e-04	0.0	34,45,0	6.36e-05	3.25e-04	7.02e-05	28,34,45			1.00	0.07	0.93	
1213	0.0	0.04	0.0	0,2,0	6.39e-05	9.52e-05	0.01	28,28,2	0.0	0	0.0	0.0	0.0	0.0
	2.73e-04	2.19e-04	0.0	34,45,0	6.36e-05	3.25e-04	7.02e-05	28,34,45			1.00	0.07	0.93	
1509	0.0	0.03	0.0	0,2,0	7.06e-05	1.26e-05	0.01	44,43,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	4.99e-03	0.0	0,38,0	7.03e-05	3.53e-05	1.41e-03	44,43,38			0.0	0.0	0.0	0.0
1515	0.0	0.03	0.0	0,2,0	7.06e-05	2.00e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	5.98e-03	0.0	0,2,0	7.03e-05	5.86e-05	1.71e-03	44,43,2			0.0	0.0	0.0	0.0
1517	0.0	0.03	0.0	0,2,0	5.72e-05	4.03e-05	0.01	44,43,2	0.0	0	0.0	0.0	0.0	0.0
	7.53e-04	5.98e-03	0.0	45,2,0	5.72e-05	9.76e-04	1.71e-03	44,45,2			1.00	0.07	0.93	
1555	0.0	0.03	0.0	0,2,0	4.97e-05	1.52e-04	0.01	46,43,2	0.0	0	0.0	0.0	0.0	0.0
	7.53e-04	5.83e-03	0.0	45,38,0	4.93e-05	9.76e-04	1.69e-03	46,45,38			1.00	0.07	0.93	
1576	0.0	0.03	0.0	0,2,0	9.24e-05	4.16e-04	0.01	38,8,2	0.0	0	0.0	0.0	0.0	0.0
	6.52e-05	7.80e-03	0.0	45,38,0	9.16e-05	6.70e-04	2.53e-03	38,43,38			1.00	0.07	0.93	
1634	0.0	0.06	0.0	0,2,0	4.71e-04	7.19e-04	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	7.80e-03	0.0	0,38,0	4.68e-04	6.70e-04	2.53e-03	2,43,38			0.0	0.0	0.0	0.0
1651	0.0	0.06	0.0	0,2,0	4.71e-04	7.19e-04	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.86e-03	0.0	0,2,0	4.68e-04	3.62e-04	1.96e-03	2,43,2			0.0	0.0	0.0	0.0
1661	0.0	0.05	0.0	0,2,0	1.33e-04	1.79e-04	0.02	38,34,2	0.0	0	0.0	0.0	0.0	0.0
	1.64e-03	8.97e-04	0.0	45,34,0	1.32e-04	2.01e-03	3.01e-04	38,45,34			1.00	0.07	0.93	
1667	0.0	0.05	0.0	0,2,0	1.33e-04	1.79e-04	0.02	38,34,2	0.0	0	0.0	0.0	0.0	0.0
	1.64e-03	8.97e-04	0.0	45,34,0	1.32e-04	2.01e-03	3.01e-04	38,45,34			1.00	0.07	0.93	
2173	0.0	0.03	0.0	0,2,0	6.99e-05	8.03e-06	0.01	38,11,2	0.0	0	0.0	0.0	0.0	0.0
	1.53e-03	4.99e-03	0.0	10,38,0	6.95e-05	1.86e-03	1.41e-03	38,10,38			1.00	0.07	0.93	
2183	0.0	0.03	0.0	0,2,0	6.99e-05	2.00e-05	0.01	38,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.53e-03	5.98e-03	0.0	10,2,0	6.95e-05	1.86e-03	1.71e-03	38,10,2			1.00	0.07	0.93	
2189	0.0	0.03	0.0	0,2,0	5.72e-05	4.03e-05	0.01	44,43,2	0.0	0	0.0	0.0	0.0	0.0
	1.02e-03	5.98e-03	0.0	35,2,0	5.72e-05	1.28e-03	1.71e-03	44,33,2			1.00	0.07	0.93	
2197	0.0	0.03	0.0	0,2,0	4.05e-05	2.55e-04	0.01	28,43,2	0.0	0	0.0	0.0	0.0	0.0
	1.19e-03	5.83e-03	0.0	33,38,0	4.02e-05	1.67e-03	1.69e-03	28,33,38			1.00	0.07	0.93	
2205	0.0	0.03	0.0	0,2,0	9.24e-05	8.95e-04	0.01	38,43,2	0.0	0	0.0	0.0	0.0	0.0
	1.44e-03	7.80e-03	0.0	35,38,0	9.16e-05	2.18e-03	2.53e-03	38,33,38			1.00	0.07	0.93	
2218	0.0	0.06	0.0	0,2,0	9.24e-04	1.66e-03	0.02	2,43,2	0.0	0	0.0	0.0	0.0	0.0
	2.40e-03	7.80e-03	0.0	33,38,0	9.23e-04	3.61e-03	2.53e-03	2,33,38			1.00	0.07	0.93	
2261	0.0	0.06	0.0	0,2,0	3.23e-03	1.66e-03	0.02	2,43,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	6.86e-03	0.0	2,2,0	3.23e-03	0.02	1.96e-03	2,2,2			1.00	0.07	0.93	
2275	0.0	0.02	0.0	0,2,0	3.23e-03	6.95e-05	5.52e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	0.05	0.0	0.0	2,0,0	3.23e-03	0.06	3.55e-04	2,2,43			1.00	0.07	0.93	
2285	0.0	0.05	0.0	0,2,0	2.01e-03	3.87e-04	0.02	2,33,2	0.0	0	0.0	0.0	0.0	0.0
	0.05	8.97e-04	0.0	2,34,0	2.01e-03	0.06	3.01e-04	2,2,34			1.00	0.07	0.93	
2291	0.0	0.05	0.0	0,2,0	2.01e-03	3.87e-04	0.02	2,33,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	8.97e-04	0.0	38,34,0	2.01e-03	0.02	3.01e-04	2,2,34			1.00	0.07	0.93	
2400	0.0	0.03	0.0	0,2,0	2.01e-03	3.87e-04	0.01	2,33,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	0.0	0.0	38,0,0	2.01e-03	0.02	2.94e-04	2,2,28			1.00	0.07	0.93	
2452	0.0	0.03	0.0	0,2,0	2.01e-03	3.87e-04	0.01	2,33,2	0.0	0	0.0	0.0	0.0	0.0
	0.05	0.0	0.0	2,0,0	2.01e-03	0.06	2.94e-04	2,2,28			1.00	0.07	0.93	
2471	0.0	0.02	0.0	0,2,0	3.23e-03	6.95e-05	5.52e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	0.05	0.0	0.0	2,0,0	3.23e-03	0.06	3.55e-04	2,2,43			1.00	0.07	0.93
2495	0.0	0.04	0.0	0,2,0	3.23e-03	1.66e-03	0.02	2,43,2	0.0	0	0.0	0.0	0.0
	0.02	2.55e-03	0.0	2,44,0	3.23e-03	0.02	1.68e-03	2,2,44			1.00	0.07	0.93
2510	0.0	0.04	0.0	0,2,0	9.24e-04	1.66e-03	0.02	2,43,2	0.0	0	0.0	0.0	0.0
	2.40e-03	3.82e-03	0.0	33,44,0	9.23e-04	3.61e-03	2.12e-03	2,33,43			1.00	0.07	0.93
2561	0.0	0.02	0.0	0,2,0	8.43e-06	8.95e-04	8.58e-03	33,43,2	0.0	0	0.0	0.0	0.0
	1.44e-03	3.82e-03	0.0	35,44,0	8.21e-06	2.18e-03	2.12e-03	33,33,43			1.00	0.07	0.93
2577	0.0	0.02	0.0	0,2,0	4.05e-05	2.55e-04	8.80e-03	28,43,2	0.0	0	0.0	0.0	0.0
	1.19e-03	2.39e-03	0.0	33,44,0	4.02e-05	1.67e-03	7.29e-04	28,33,44			1.00	0.07	0.93
2601	0.0	0.02	0.0	0,2,0	4.05e-05	3.60e-05	8.80e-03	28,2,2	0.0	0	0.0	0.0	0.0
	1.02e-03	2.12e-03	0.0	35,44,0	4.02e-05	1.28e-03	6.14e-04	28,33,44			1.00	0.07	0.93
2619	0.0	0.02	0.0	0,2,0	3.32e-05	1.43e-05	8.08e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.53e-03	2.12e-03	0.0	10,44,0	3.31e-05	1.86e-03	6.11e-04	44,10,44			1.00	0.07	0.93
2637	0.0	0.02	0.0	0,2,0	3.29e-05	8.03e-06	8.08e-03	38,11,2	0.0	0	0.0	0.0	0.0
	1.53e-03	8.05e-04	0.0	10,43,0	3.27e-05	1.86e-03	2.47e-04	38,10,43			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.06	0.0		3.23e-03	0.06	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
54	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	5.58e-03	53.1	12	0.01	156.9	12	6.14e-03	-98.0	-9430.2	12

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2299	0.02	0.02	0.0	45,43,0	1.77e-03	0.05	0.07	43,45,45	0.0	0	0.15	0.18	0.82
	4.56e-03	9.29e-03	0.0	46,43,0	4.50e-04	0.01	6.22e-03	43,46,44			1.00	0.07	0.93
2300	0.02	0.02	0.0	45,43,0	1.77e-03	0.05	0.07	43,45,45	0.0	0	0.15	0.18	0.82
	0.02	0.01	0.0	44,46,0	4.50e-04	0.03	0.02	43,44,44			1.00	0.07	0.93
2301	5.64e-03	4.82e-03	0.0	45,44,0	6.97e-04	0.01	0.02	43,45,44	0.0	0	0.15	0.18	0.82
	0.02	0.01	0.0	44,46,0	1.90e-04	0.03	0.02	44,44,44			1.00	0.07	0.93
2302	5.18e-03	4.19e-03	0.0	44,46,0	2.49e-04	9.68e-03	4.02e-03	43,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.47e-03	0.0	44,45,0	6.42e-05	0.03	4.56e-03	43,44,45			1.00	0.07	0.93
2303	5.18e-03	4.19e-03	0.0	44,46,0	3.41e-05	9.68e-03	4.02e-03	44,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.47e-03	0.0	44,45,0	8.70e-06	0.03	3.23e-03	44,44,45			1.00	0.07	0.93
2304	5.14e-03	4.16e-03	0.0	44,46,0	2.46e-04	9.61e-03	4.00e-03	44,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.40e-03	0.0	43,46,0	6.34e-05	0.03	4.18e-03	44,43,45			1.00	0.07	0.93
2305	5.87e-03	5.06e-03	0.0	45,44,0	6.85e-04	0.01	0.02	44,44,44	0.0	0	0.15	0.18	0.82
	0.02	0.01	0.0	44,46,0	1.93e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2306	0.03	0.03	0.0	45,44,0	1.80e-03	0.06	0.08	44,45,44	0.0	0	0.15	0.18	0.82
	0.02	0.02	0.0	44,44,0	4.54e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2307	0.03	0.03	0.0	45,44,0	1.80e-03	0.06	0.08	44,45,44	0.0	0	0.15	0.18	0.82
	0.01	0.02	0.0	45,44,0	4.54e-04	0.04	0.02	44,46,44			1.00	0.07	0.93
2408	0.02	0.02	0.0	45,43,0	1.77e-03	0.05	0.07	43,45,45	0.0	0	0.15	0.18	0.82
	4.56e-03	9.29e-03	0.0	46,43,0	4.50e-04	0.01	6.22e-03	43,46,44			1.00	0.07	0.93
2409	0.02	0.02	0.0	45,43,0	1.77e-03	0.05	0.07	43,45,45	0.0	0	0.15	0.18	0.82
	0.02	0.01	0.0	44,46,0	4.50e-04	0.03	0.02	43,44,44			1.00	0.07	0.93
2410	5.64e-03	4.82e-03	0.0	45,44,0	6.97e-04	0.01	0.02	43,45,44	0.0	0	0.15	0.18	0.82
	0.02	0.01	0.0	44,46,0	1.90e-04	0.03	0.02	44,44,44			1.00	0.07	0.93
2411	5.18e-03	4.19e-03	0.0	44,46,0	2.49e-04	9.68e-03	4.02e-03	43,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.47e-03	0.0	44,45,0	6.42e-05	0.03	4.56e-03	43,44,45			1.00	0.07	0.93
2412	5.18e-03	4.19e-03	0.0	44,46,0	3.41e-05	9.68e-03	4.02e-03	44,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.47e-03	0.0	44,45,0	8.70e-06	0.03	3.23e-03	44,44,45			1.00	0.07	0.93
2413	5.14e-03	4.16e-03	0.0	44,46,0	2.46e-04	9.61e-03	4.00e-03	44,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.40e-03	0.0	43,46,0	6.34e-05	0.03	4.18e-03	44,43,45			1.00	0.07	0.93
2414	5.87e-03	5.06e-03	0.0	45,44,0	6.85e-04	0.01	0.02	44,44,44	0.0	0	0.15	0.18	0.82
	0.02	0.01	0.0	44,46,0	1.93e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2415	0.03	0.03	0.0	45,44,0	1.80e-03	0.06	0.08	44,45,44	0.0	0	0.15	0.18	0.82
	0.02	0.02	0.0	44,44,0	4.54e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2416	0.03	0.03	0.0	45,44,0	1.80e-03	0.06	0.08	44,45,44	0.0	0	0.15	0.18	0.82
	0.01	0.02	0.0	45,44,0	4.54e-04	0.04	0.02	44,46,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.03	0.0		1.80e-03	0.06	0.08		0.0				

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
55	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	1.89e-05	28	0.0	1.89e-05	28	0.07	-2.55e-05	-9429.6	38

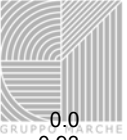
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2818	0.04	0.03	0.0	14,11,0	0.01	0.22	0.24	11,12,11	0.0	0	0.21	0.13	0.87
	0.11	0.08	0.0	13,12,0	5.94e-03	0.30	0.25	12,13,12			1.00	0.07	0.93
2999	0.04	0.03	0.0	14,11,0	0.01	0.22	0.24	11,12,11	0.0	0	0.21	0.13	0.87
	0.11	0.08	0.0	13,12,0	5.94e-03	0.30	0.25	12,13,12			1.00	0.07	0.93
3003	0.04	0.03	0.0	14,11,0	0.01	0.22	0.24	11,12,11	0.0	0	0.21	0.13	0.87
	0.11	0.08	0.0	13,12,0	5.94e-03	0.30	0.25	12,13,12			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.11	0.08	0.0		0.01	0.30	0.25		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
56	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	596.6	44	0.64	1535.2	2	0.09	-9139.3	-2.988e+05	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
275	0.0	0.03	0.0	0,2,0	4.39e-04	5.23e-05	0.01	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.37e-03	0.0	0,2,0	4.38e-04	1.08e-04	1.61e-03	38,8,2			0.0	0.0	0.0
286	0.0	0.03	0.0	0,2,0	4.39e-04	5.23e-05	0.01	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.37e-03	0.0	0,2,0	4.38e-04	1.08e-04	1.61e-03	38,8,2			0.0	0.0	0.0
307	0.0	0.07	0.0	0,2,0	5.99e-05	3.58e-06	0.02	28,18,2	0.0	0	0.0	0.0	0.0
	2.43e-04	3.76e-04	0.0	36,43,0	5.78e-05	2.87e-04	1.11e-04	28,36,43			1.00	0.07	0.93
315	0.0	0.07	0.0	0,2,0	5.99e-05	3.58e-06	0.02	28,18,2	0.0	0	0.0	0.0	0.0
	2.43e-04	7.35e-04	0.0	36,2,0	5.78e-05	2.87e-04	2.08e-04	28,36,2			1.00	0.07	0.93
323	0.0	0.05	0.0	0,2,0	5.78e-05	1.11e-06	0.02	28,18,2	0.0	0	0.0	0.0	0.0
	0.0	7.35e-04	0.0	0,2,0	5.68e-05	5.94e-06	2.08e-04	28,43,2			0.0	0.0	0.0
722	0.0	0.05	0.0	0,2,0	4.39e-04	5.23e-05	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.37e-03	0.0	0,2,0	4.38e-04	1.08e-04	1.61e-03	38,8,2			0.0	0.0	0.0
733	0.0	0.05	0.0	0,2,0	4.39e-04	5.23e-05	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.37e-03	0.0	0,2,0	4.38e-04	1.08e-04	1.61e-03	38,8,2			0.0	0.0	0.0
746	0.0	0.07	0.0	0,2,0	9.17e-05	4.24e-06	0.02	28,18,2	0.0	0	0.0	0.0	0.0
	2.43e-04	1.04e-03	0.0	36,2,0	8.93e-05	2.87e-04	2.93e-04	28,36,2			1.00	0.07	0.93
752	0.0	0.07	0.0	0,2,0	9.17e-05	4.24e-06	0.02	28,18,2	0.0	0	0.0	0.0	0.0
	2.43e-04	1.81e-03	0.0	36,2,0	8.93e-05	2.87e-04	5.13e-04	28,36,2			1.00	0.07	0.93
758	0.0	0.05	0.0	0,2,0	6.27e-05	1.11e-06	0.02	28,18,2	0.0	0	0.0	0.0	0.0
	0.0	1.81e-03	0.0	0,2,0	6.18e-05	5.94e-06	5.13e-04	28,43,2			0.0	0.0	0.0
1094	0.0	0.06	0.0	0,2,0	4.35e-04	1.36e-04	0.02	38,8,2	0.0	0	0.0	0.0	0.0
	0.0	4.18e-03	0.0	0,38,0	4.33e-04	5.42e-05	1.20e-03	38,8,38			0.0	0.0	0.0
1105	0.0	0.06	0.0	0,2,0	4.35e-04	1.36e-04	0.02	38,8,2	0.0	0	0.0	0.0	0.0
	0.0	4.18e-03	0.0	0,38,0	4.33e-04	5.42e-05	1.20e-03	38,8,38			0.0	0.0	0.0
1126	0.0	0.07	0.0	0,2,0	3.15e-04	4.24e-06	0.03	28,18,2	0.0	0	0.0	0.0	0.0
	0.0	6.22e-03	0.0	0,2,0	3.12e-04	7.80e-06	1.76e-03	28,43,2			0.0	0.0	0.0
1134	0.0	0.07	0.0	0,2,0	3.15e-04	6.94e-06	0.03	28,43,2	0.0	0	0.0	0.0	0.0
	0.0	6.22e-03	0.0	0,2,0	3.12e-04	7.80e-06	1.76e-03	28,43,2			0.0	0.0	0.0
1142	0.0	0.04	0.0	0,2,0	6.27e-05	6.94e-06	0.02	28,43,2	0.0	0	0.0	0.0	0.0
	0.0	6.11e-03	0.0	0,2,0	6.18e-05	7.66e-06	1.73e-03	28,43,2			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



1491	0.0	0.06	0.0	0,2,0	1.42e-03	1.36e-04	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	4.18e-03	0.0	8,38,0	1.42e-03	0.02	1.20e-03	2,8,38			1.00	0.07	0.93	
1496	0.0	0.02	0.0	0,2,0	1.42e-03	1.93e-05	5.78e-03	2,12,2	0.0	0	0.0	0.0	0.0	0.0
	0.03	0.0	0.0	2,0,0	1.42e-03	0.03	2.09e-05	2,2,8			1.00	0.07	0.93	
1500	0.0	0.02	0.0	0,2,0	1.59e-03	3.51e-06	5.69e-03	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.03	6.81e-04	0.0	2,35,0	1.59e-03	0.03	1.94e-04	2,2,35			1.00	0.07	0.93	
1504	0.0	0.07	0.0	0,2,0	1.59e-03	4.90e-06	0.03	2,20,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	6.22e-03	0.0	38,2,0	1.59e-03	0.02	1.76e-03	2,38,2			1.00	0.07	0.93	
1508	0.0	0.07	0.0	0,2,0	4.94e-04	6.94e-06	0.03	2,43,2	0.0	0	0.0	0.0	0.0	0.0
	2.32e-03	6.22e-03	0.0	46,2,0	4.92e-04	2.74e-03	1.76e-03	2,46,2			1.00	0.07	0.93	
1512	0.0	0.04	0.0	0,2,0	3.72e-05	6.94e-06	0.01	34,43,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.11e-03	0.0	0,2,0	3.69e-05	1.90e-05	1.73e-03	34,43,2			0.0	0.0	0.0	0.0
1620	0.0	0.06	0.0	0,2,0	1.05e-03	1.36e-04	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.67e-04	4.18e-03	0.0	14,38,0	1.05e-03	1.09e-03	1.20e-03	2,14,38			1.00	0.07	0.93	
2117	0.0	0.04	0.0	0,2,0	2.45e-03	1.02e-04	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.67e-04	4.10e-03	0.0	14,2,0	2.45e-03	1.09e-03	1.22e-03	2,14,2			1.00	0.07	0.93	
2131	0.0	0.04	0.0	0,2,0	2.45e-03	1.02e-04	0.02	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	6.99e-03	0.0	8,2,0	2.45e-03	0.02	1.99e-03	2,8,2			1.00	0.07	0.93	
2144	0.0	0.03	0.0	0,2,0	1.57e-03	1.93e-05	0.01	2,12,2	0.0	0	0.0	0.0	0.0	0.0
	0.03	6.99e-03	0.0	2,2,0	1.57e-03	0.03	1.99e-03	2,2,2			1.00	0.07	0.93	
2152	0.0	0.03	0.0	0,2,0	1.59e-03	3.69e-06	9.52e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	0.03	5.59e-03	0.0	2,38,0	1.59e-03	0.03	1.59e-03	2,2,38			1.00	0.07	0.93	
2160	0.0	0.05	0.0	0,2,0	1.59e-03	5.52e-06	0.02	2,25,2	0.0	0	0.0	0.0	0.0	0.0
	0.02	1.74e-03	0.0	38,33,0	1.59e-03	0.02	4.95e-04	2,38,33			1.00	0.07	0.93	
2168	0.0	0.05	0.0	0,2,0	9.05e-04	8.56e-06	0.02	2,43,2	0.0	0	0.0	0.0	0.0	0.0
	6.09e-03	3.41e-03	0.0	18,28,0	9.05e-04	7.21e-03	9.65e-04	2,18,28			1.00	0.07	0.93	
2176	0.0	0.03	0.0	0,2,0	7.75e-05	8.56e-06	0.01	28,43,2	0.0	0	0.0	0.0	0.0	0.0
	4.78e-03	3.41e-03	0.0	18,28,0	7.72e-05	5.65e-03	9.65e-04	28,18,28			1.00	0.07	0.93	
2640	0.0	0.03	0.0	0,2,0	7.75e-05	8.56e-06	9.18e-03	28,43,2	0.0	0	0.0	0.0	0.0	0.0
	4.78e-03	2.58e-04	0.0	18,45,0	7.72e-05	5.65e-03	7.49e-05	28,18,45			1.00	0.07	0.93	
2656	0.0	0.03	0.0	0,2,0	9.05e-04	8.56e-06	0.01	2,43,2	0.0	0	0.0	0.0	0.0	0.0
	6.09e-03	2.58e-04	0.0	18,45,0	9.05e-04	7.21e-03	7.49e-05	2,18,45			1.00	0.07	0.93	
2779	0.0	0.03	0.0	0,2,0	1.52e-03	5.52e-06	0.01	2,25,2	0.0	0	0.0	0.0	0.0	0.0
	6.09e-03	1.33e-03	0.0	18,43,0	1.52e-03	7.21e-03	3.79e-04	2,18,43			1.00	0.07	0.93	
2789	0.0	0.03	0.0	0,2,0	1.52e-03	3.69e-06	9.52e-03	2,2,2	0.0	0	0.0	0.0	0.0	0.0
	7.12e-04	5.59e-03	0.0	14,38,0	1.52e-03	8.59e-04	1.59e-03	2,14,38			1.00	0.07	0.93	
2798	0.0	0.03	0.0	0,2,0	1.57e-03	1.60e-05	0.01	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.99e-03	0.0	0,2,0	1.57e-03	3.16e-05	1.99e-03	2,12,2			0.0	0.0	0.0	0.0
2813	0.0	0.03	0.0	0,2,0	2.45e-03	2.19e-05	0.01	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.99e-03	0.0	0,2,0	2.45e-03	5.98e-05	1.99e-03	2,2,2			0.0	0.0	0.0	0.0
2878	0.0	0.03	0.0	0,2,0	2.45e-03	2.19e-05	0.01	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	4.10e-03	0.0	0,2,0	2.45e-03	5.98e-05	1.22e-03	2,2,2			0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.03	0.07	0.0		2.45e-03	0.03	0.03		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
57	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.05	daN 875.7	46	0.15	daN -248.8	2	0.08	daN -5974.8	daN cm 3.255e+05	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
168	0.0	0.02	0.0	0,2,0	3.04e-05	1.40e-04	7.58e-03	46,44,38	0.0	0	0.0	0.0	0.0
	0.0	4.01e-04	0.0	0,38,0	3.03e-05	2.86e-04	3.97e-04	46,38,38			0.0	0.0	0.0
180	0.0	0.02	0.0	0,2,0	3.68e-05	1.40e-04	7.58e-03	46,44,38	0.0	0	0.0	0.0	0.0
	1.46e-04	4.17e-04	0.0	45,28,0	3.67e-05	2.86e-04	3.97e-04	46,38,38			1.00	0.07	0.93
184	0.0	0.02	0.0	0,2,0	3.68e-05	4.97e-05	7.32e-03	46,18,2	0.0	0	0.0	0.0	0.0
	1.07e-03	7.13e-04	0.0	46,34,0	3.67e-05	1.26e-03	2.08e-04	46,46,34			1.00	0.07	0.93
188	0.0	0.02	0.0	0,2,0	3.50e-05	4.59e-05	8.44e-03	46,20,2	0.0	0	0.0	0.0	0.0
	3.05e-03	1.13e-03	0.0	44,35,0	3.49e-05	3.62e-03	3.24e-04	46,44,35			1.00	0.07	0.93
193	3.88e-04	0.02	0.0	45,2,0	1.99e-05	4.58e-04	8.44e-03	46,45,2	0.0	0	0.98	0.03	0.97
	3.94e-03	1.39e-03	0.0	44,35,0	1.98e-05	4.68e-03	3.94e-04	46,44,35			1.00	0.07	0.93
196	3.88e-04	2.97e-03	0.0	45,28,0	5.84e-06	4.58e-04	1.02e-03	46,45,28	0.0	0	0.98	0.03	0.97
	3.94e-03	1.39e-03	0.0	44,35,0	5.83e-06	4.68e-03	3.94e-04	46,44,35			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



200	0.0	0.04	0.0	0,2,0	2.13e-05	4.28e-04	0.01	18,11,2	0.0	0	0.0	0.0	0.0	0.0
	1.35e-03	2.24e-04	0.0	44,18,0	2.05e-05	1.60e-03	2.89e-04	2,44,26			1.00	0.07	0.93	
212	0.0	0.04	0.0	0,2,0	2.13e-05	4.28e-04	0.01	18,11,2	0.0	0	0.0	0.0	0.0	0.0
	4.59e-05	2.24e-04	0.0	45,18,0	2.05e-05	2.53e-04	2.89e-04	2,11,26			1.00	0.07	0.93	
636	0.0	0.02	0.0	0,2,0	3.13e-05	1.40e-04	7.58e-03	46,44,38	0.0	0	0.0	0.0	0.0	0.0
	0.0	9.14e-04	0.0	0,2,0	3.12e-05	2.86e-04	3.97e-04	45,38,38			0.0	0.0	0.0	0.0
648	0.0	0.02	0.0	0,2,0	4.74e-05	1.40e-04	7.58e-03	46,44,38	0.0	0	0.0	0.0	0.0	0.0
	1.46e-04	1.32e-03	0.0	45,28,0	4.73e-05	2.86e-04	4.20e-04	46,38,28			1.00	0.07	0.93	
652	0.0	0.02	0.0	0,2,0	5.43e-05	4.97e-05	7.32e-03	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.07e-03	1.34e-03	0.0	46,28,0	5.42e-05	1.26e-03	4.20e-04	44,46,28			1.00	0.07	0.93	
656	0.0	0.03	0.0	0,2,0	5.43e-05	4.59e-05	9.20e-03	44,20,2	0.0	0	0.0	0.0	0.0	0.0
	3.05e-03	1.34e-03	0.0	44,28,0	5.42e-05	3.62e-03	4.04e-04	44,44,28			1.00	0.07	0.93	
661	3.88e-04	0.03	0.0	45,2,0	3.87e-05	4.58e-04	9.20e-03	44,45,2	0.0	0	0.98	0.03	0.97	
	3.94e-03	1.39e-03	0.0	44,35,0	3.86e-05	4.68e-03	3.94e-04	44,44,35			1.00	0.07	0.93	
664	3.88e-04	2.97e-03	0.0	45,28,0	5.84e-06	4.58e-04	1.02e-03	46,45,28	0.0	0	0.98	0.03	0.97	
	3.94e-03	1.39e-03	0.0	44,35,0	5.83e-06	4.68e-03	3.94e-04	46,44,35			1.00	0.07	0.93	
668	0.0	0.05	0.0	0,2,0	2.13e-05	5.53e-04	0.02	18,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.35e-03	2.24e-04	0.0	44,18,0	2.05e-05	1.60e-03	2.89e-04	2,44,26			1.00	0.07	0.93	
680	0.0	0.05	0.0	0,2,0	2.13e-05	5.53e-04	0.02	18,8,2	0.0	0	0.0	0.0	0.0	0.0
	2.32e-04	2.24e-04	0.0	18,18,0	2.05e-05	3.10e-04	2.89e-04	2,18,26			1.00	0.07	0.93	
994	0.0	0.02	0.0	0,2,0	4.80e-05	2.86e-04	7.06e-03	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	2.46e-04	3.46e-03	0.0	45,28,0	4.78e-05	1.01e-03	1.94e-03	34,28,28			1.00	0.07	0.93	
1006	0.0	0.02	0.0	0,2,0	4.80e-05	2.86e-04	7.06e-03	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	2.46e-04	3.46e-03	0.0	45,28,0	4.78e-05	1.01e-03	1.94e-03	34,28,28			1.00	0.07	0.93	
1010	0.0	0.02	0.0	0,2,0	5.87e-05	4.89e-05	7.10e-03	44,28,2	0.0	0	0.0	0.0	0.0	0.0
	4.96e-04	3.44e-03	0.0	45,28,0	5.86e-05	5.97e-04	1.03e-03	44,45,28			1.00	0.07	0.93	
1014	0.0	0.03	0.0	0,2,0	7.03e-05	2.53e-05	9.39e-03	44,20,2	0.0	0	0.0	0.0	0.0	0.0
	9.08e-04	3.30e-03	0.0	45,38,0	7.01e-05	1.08e-03	9.75e-04	44,45,38			1.00	0.07	0.93	
1019	0.0	0.03	0.0	0,2,0	7.03e-05	2.47e-05	9.39e-03	44,20,2	0.0	0	0.0	0.0	0.0	0.0
	9.08e-04	2.92e-03	0.0	45,38,0	7.01e-05	1.08e-03	9.12e-04	44,45,38			1.00	0.07	0.93	
1024	0.0	0.05	0.0	0,2,0	5.41e-06	8.14e-04	0.02	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	6.01e-04	2.83e-05	0.0	43,35,0	4.73e-06	8.09e-04	1.79e-04	44,44,2			1.00	0.07	0.93	
1036	0.0	0.05	0.0	0,2,0	5.41e-06	8.14e-04	0.02	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	6.01e-04	2.83e-05	0.0	43,35,0	4.73e-06	8.09e-04	1.79e-04	44,44,2			1.00	0.07	0.93	
1415	0.0	0.02	0.0	0,2,0	4.80e-05	2.86e-04	6.63e-03	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	7.32e-04	4.12e-03	0.0	45,28,0	4.78e-05	1.01e-03	1.94e-03	34,28,28			1.00	0.07	0.93	
1425	0.0	0.02	0.0	0,2,0	4.80e-05	2.86e-04	6.63e-03	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	7.32e-04	4.12e-03	0.0	45,28,0	4.78e-05	1.01e-03	1.94e-03	34,28,28			1.00	0.07	0.93	
1427	0.0	0.02	0.0	0,2,0	5.87e-05	4.89e-05	6.59e-03	44,28,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	4.25e-03	0.0	0,38,0	5.86e-05	8.00e-05	1.26e-03	44,25,38			0.0	0.0	0.0	0.0
1429	0.0	0.03	0.0	0,2,0	7.03e-05	2.12e-05	9.39e-03	44,20,2	0.0	0	0.0	0.0	0.0	0.0
	8.39e-04	5.34e-03	0.0	35,38,0	7.01e-05	1.03e-03	1.56e-03	44,35,38			1.00	0.07	0.93	
1431	0.0	0.03	0.0	0,2,0	2.22e-04	8.61e-05	9.39e-03	38,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.81e-03	6.92e-03	0.0	35,38,0	2.21e-04	2.17e-03	2.08e-03	38,35,38			1.00	0.07	0.93	
1433	0.0	0.01	0.0	0,38,0	2.22e-04	9.62e-05	4.82e-03	38,18,38	0.0	0	0.0	0.0	0.0	0.0
	1.94e-03	6.92e-03	0.0	35,38,0	2.21e-04	2.31e-03	2.08e-03	38,33,38			1.00	0.07	0.93	
1434	0.0	4.21e-03	0.0	0,2,0	3.99e-05	2.30e-04	1.67e-03	28,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.94e-03	6.21e-03	0.0	35,38,0	3.96e-05	2.31e-03	2.04e-03	28,33,38			1.00	0.07	0.93	
1437	0.0	0.04	0.0	0,2,0	5.55e-05	8.14e-04	0.02	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.26e-03	8.24e-03	0.0	25,38,0	5.50e-05	1.77e-03	2.49e-03	2,25,38			1.00	0.07	0.93	
1610	0.0	0.04	0.0	0,2,0	5.55e-05	8.14e-04	0.02	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.19e-03	8.24e-03	0.0	25,38,0	5.50e-05	1.81e-03	2.55e-03	2,25,38			1.00	0.07	0.93	
1614	0.0	5.51e-03	0.0	0,2,0	5.45e-05	3.93e-04	2.30e-03	38,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.19e-03	7.56e-03	0.0	25,38,0	5.43e-05	1.81e-03	2.55e-03	38,25,38			1.00	0.07	0.93	
1616	0.0	7.63e-03	0.0	0,2,0	1.35e-04	1.23e-04	2.64e-03	2,18,2	0.0	0	0.0	0.0	0.0	0.0
	8.74e-04	7.97e-03	0.0	25,2,0	1.35e-04	1.14e-03	2.78e-03	2,25,2			1.00	0.07	0.93	
1620	0.0	7.63e-03	0.0	0,2,0	1.35e-04	6.97e-05	2.64e-03	2,28,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	7.97e-03	0.0	0,2,0	1.35e-04	7.00e-04	2.78e-03	2,18,2			0.0	0.0	0.0	0.0
1938	0.0	0.01	0.0	0,2,0	1.25e-05	2.60e-04	5.31e-03	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	1.77e-03	4.12e-03	0.0	43,28,0	1.24e-05	2.21e-03	1.30e-03	34,43,28			1.00	0.07	0.93	
1956	0.0	0.02	0.0	0,2,0	1.42e-05	2.60e-04	5.39e-03	46,28,2	0.0	0	0.0	0.0	0.0	0.0
	1.77e-03	4.12e-03	0.0	43,28,0	1.41e-05	2.21e-03	1.30e-03	46,43,28			1.00	0.07	0.93	
1964	0.0	0.02	0.0	0,2,0	1.91e-05	5.04e-05	5.93e-03	44,33,2	0.0	0	0.0	0.0	0.0	0.0
	1.49e-03	4.25e-03	0.0	23,38,0	1.90e-05	1.97e-03	1.26e-03	44,23,38			1.00	0.07	0.93	
1972	0.0	0.02	0.0	0,2,0	3.27e-05	4.38e-05	7.51e-03	38,20,2	0.0	0	0.0	0.0	0.0	0.0
	1.49e-03	5.34e-03	0.0	23,38,0	3.25e-05	1.97e-03	1.56e-03	38,23,38			1.00	0.07	0.93	
1985	0.0	0.02	0.0	0,2,0	2.22e-04	8.61e-05	7.51e-03	38,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.81e-03	6.92e-03	0.0	35,38,0	2.21e-04	2.17e-03	2.08e-03	38,35,38			1.00	0.07	0.93	
1988	0.0	0.02	0.0	0,2,0	2.22e-04	9.62e-05	5.47e-03	38,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.94e-03	6.92e-03	0.0	35,38,0	2.21e-04	2.31e-03	2.08e-03	38,33,38			1.00	0.07	0.93	
1994	0.0	9.60e-03	0.0	0,2,0	4.44e-05	2.30e-04	3.29e-03	28,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.94e-03	6.21e-03	0.0	35,38,0	4.43e-05	2.31e-03	2.04e-03	28,33,38			1.00	0.07	0.93	
2004	0.0	0.02	0.0	0,2,0	6.90e-05	4.25e-04	6.77e-03	28,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.30e-03	8.24e-03	0.0	25,38,0	6.89e-05	2.07e-03	2.49e-03	28,25,38			1.00	0.07	0.93	
2020	0.0	0.02	0.0	0,2,0	6.90e-05	4.25e-04	6.77e-03	28,2,2	0.0	0	0.0	0.0	0.0	0.0



2040	1.30e-03	8.24e-03	0.0	25,38,0	6.89e-05	2.07e-03	2.55e-03	28,25,38	1.00	0.07	0.93
	0.0	8.19e-03	0.0	0,2,0	5.45e-05	3.93e-04	3.04e-03	38,2,2	0.0	0.0	0.0
	1.19e-03	7.56e-03	0.0	25,38,0	5.43e-05	1.81e-03	2.55e-03	38,25,38	1.00	0.07	0.93
2048	0.0	0.01	0.0	0,2,0	1.35e-04	2.51e-04	3.98e-03	2,28,2	0.0	0.0	0.0
	1.21e-03	7.97e-03	0.0	25,2,0	1.35e-04	1.63e-03	2.78e-03	2,25,2	1.00	0.07	0.93
2117	0.0	0.01	0.0	0,2,0	1.35e-04	2.51e-04	3.98e-03	2,28,2	0.0	0.0	0.0
	1.21e-03	7.97e-03	0.0	25,2,0	1.35e-04	1.63e-03	2.78e-03	2,25,2	1.00	0.07	0.93
2713	0.0	0.02	0.0	0,2,0	4.20e-05	5.92e-04	6.29e-03	38,2,2	0.0	0.0	0.0
	5.08e-03	1.76e-03	0.0	38,36,0	4.18e-05	6.28e-03	6.37e-04	38,38,28	1.00	0.07	0.93
2725	0.0	0.02	0.0	0,2,0	4.20e-05	5.92e-04	6.29e-03	38,2,2	0.0	0.0	0.0
	5.08e-03	1.76e-03	0.0	38,36,0	4.18e-05	6.28e-03	6.37e-04	38,38,28	1.00	0.07	0.93
2729	0.0	0.02	0.0	0,2,0	8.19e-06	9.49e-05	5.42e-03	28,18,2	0.0	0.0	0.0
	3.37e-03	1.53e-03	0.0	44,30,0	8.12e-06	4.13e-03	4.91e-04	28,44,30	1.00	0.07	0.93
2733	0.0	0.02	0.0	0,2,0	2.22e-05	9.49e-05	5.92e-03	44,18,2	0.0	0.0	0.0
	2.66e-03	1.73e-03	0.0	24,30,0	2.21e-05	3.51e-03	5.42e-04	44,24,30	1.00	0.07	0.93
2738	0.0	0.02	0.0	0,2,0	6.12e-05	9.06e-05	8.45e-03	38,18,2	0.0	0.0	0.0
	2.25e-03	2.03e-03	0.0	23,38,0	6.11e-05	2.86e-03	6.16e-04	38,24,38	1.00	0.07	0.93
2741	0.0	0.02	0.0	0,2,0	6.12e-05	1.01e-04	8.45e-03	38,18,2	0.0	0.0	0.0
	1.84e-03	2.47e-03	0.0	23,38,0	6.11e-05	2.36e-03	8.05e-04	38,23,38	1.00	0.07	0.93
2743	0.0	0.01	0.0	0,2,0	4.99e-05	1.55e-04	4.10e-03	28,18,2	0.0	0.0	0.0
	1.10e-03	3.12e-03	0.0	13,38,0	4.97e-05	1.48e-03	1.35e-03	28,25,38	1.00	0.07	0.93
2749	0.0	0.01	0.0	0,2,0	7.19e-05	7.28e-04	5.61e-03	28,2,2	0.0	0.0	0.0
	1.46e-03	4.18e-03	0.0	13,38,0	7.17e-05	2.07e-03	1.41e-03	28,25,38	1.00	0.07	0.93
2761	0.0	0.01	0.0	0,2,0	7.19e-05	7.28e-04	5.61e-03	28,2,2	0.0	0.0	0.0
	1.46e-03	4.18e-03	0.0	13,38,0	7.17e-05	2.07e-03	1.53e-03	28,25,38	1.00	0.07	0.93
2790	0.0	9.82e-03	0.0	0,2,0	3.36e-05	3.84e-04	3.52e-03	38,2,2	0.0	0.0	0.0
	2.15e-03	3.66e-03	0.0	14,38,0	3.33e-05	2.64e-03	1.53e-03	38,14,38	1.00	0.07	0.93
2803	0.0	0.01	0.0	0,2,0	4.45e-05	2.90e-04	3.98e-03	2,2,2	0.0	0.0	0.0
	2.59e-03	3.40e-03	0.0	14,38,0	4.43e-05	3.14e-03	1.21e-03	2,14,38	1.00	0.07	0.93
2814	0.0	0.02	0.0	0,2,0	4.20e-05	5.92e-04	6.29e-03	38,2,2	0.0	0.0	0.0
	5.08e-03	7.07e-04	0.0	38,36,0	4.18e-05	6.28e-03	4.10e-04	38,38,38	1.00	0.07	0.93
2878	0.0	0.01	0.0	0,2,0	4.45e-05	2.90e-04	3.98e-03	2,2,2	0.0	0.0	0.0
	2.59e-03	3.40e-03	0.0	14,38,0	4.43e-05	3.14e-03	1.10e-03	2,14,38	1.00	0.07	0.93
2890	0.0	0.01	0.0	0,2,0	8.19e-06	9.49e-05	4.94e-03	28,18,2	0.0	0.0	0.0
	3.37e-03	7.07e-04	0.0	44,36,0	8.12e-06	4.13e-03	2.29e-04	28,44,36	1.00	0.07	0.93
2894	0.0	0.01	0.0	0,2,0	8.83e-06	9.49e-05	4.94e-03	43,18,2	0.0	0.0	0.0
	2.66e-03	9.72e-04	0.0	24,36,0	8.81e-06	3.51e-03	3.49e-04	43,24,30	1.00	0.07	0.93
3091	0.0	0.02	0.0	0,2,0	1.31e-05	9.06e-05	8.45e-03	43,18,2	0.0	0.0	0.0
	2.25e-03	1.15e-03	0.0	23,36,0	1.30e-05	2.86e-03	5.88e-04	43,24,28	1.00	0.07	0.93
3094	0.0	0.02	0.0	0,2,0	7.78e-05	1.01e-04	8.45e-03	2,18,2	0.0	0.0	0.0
	1.84e-03	3.28e-03	0.0	23,28,0	7.76e-05	2.36e-03	1.10e-03	2,23,28	1.00	0.07	0.93
3096	0.0	0.02	0.0	0,2,0	7.78e-05	1.55e-04	5.72e-03	2,18,2	0.0	0.0	0.0
	1.10e-03	3.28e-03	0.0	13,28,0	7.76e-05	1.38e-03	1.10e-03	2,25,28	1.00	0.07	0.93
3102	0.0	0.02	0.0	0,2,0	1.92e-04	1.09e-03	7.73e-03	2,2,2	0.0	0.0	0.0
	1.46e-03	2.94e-03	0.0	13,28,0	1.92e-04	1.94e-03	1.10e-03	2,13,28	1.00	0.07	0.93
3114	0.0	0.02	0.0	0,2,0	1.92e-04	1.09e-03	7.73e-03	2,2,2	0.0	0.0	0.0
	3.99e-03	1.54e-03	0.0	8,34,0	1.92e-04	5.00e-03	6.91e-04	2,8,2	1.00	0.07	0.93
3126	0.0	0.01	0.0	0,2,0	5.30e-05	3.84e-04	4.27e-03	8,2,2	0.0	0.0	0.0
	3.99e-03	1.35e-03	0.0	8,33,0	5.27e-05	5.00e-03	5.44e-04	8,8,43	1.00	0.07	0.93
3130	0.0	0.01	0.0	0,2,0	5.68e-05	2.90e-04	4.27e-03	2,2,2	0.0	0.0	0.0
	2.59e-03	2.19e-03	0.0	14,43,0	5.67e-05	3.14e-03	1.39e-03	2,14,43	1.00	0.07	0.93
3147	0.0	6.92e-03	0.0	0,2,0	5.68e-05	2.90e-04	2.41e-03	2,2,2	0.0	0.0	0.0
	2.59e-03	2.19e-03	0.0	14,43,0	5.67e-05	3.14e-03	1.39e-03	2,14,43	1.00	0.07	0.93
3154	0.0	0.02	0.0	0,2,0	7.78e-05	8.89e-05	5.72e-03	2,26,2	0.0	0.0	0.0
	0.0	3.28e-03	0.0	0,28,0	7.76e-05	3.16e-04	1.10e-03	2,18,28	0.0	0.0	0.0
3160	0.0	0.02	0.0	0,2,0	1.92e-04	1.09e-03	7.73e-03	2,2,2	0.0	0.0	0.0
	1.15e-03	2.94e-03	0.0	10,28,0	1.92e-04	1.82e-03	1.10e-03	2,10,28	1.00	0.07	0.93
3172	0.0	0.02	0.0	0,2,0	1.92e-04	1.09e-03	7.73e-03	2,2,2	0.0	0.0	0.0
	3.99e-03	1.23e-03	0.0	8,33,0	1.92e-04	5.00e-03	6.91e-04	2,8,2	1.00	0.07	0.93
3184	0.0	0.01	0.0	0,2,0	5.30e-05	2.17e-04	4.27e-03	8,38,2	0.0	0.0	0.0
	3.99e-03	1.34e-03	0.0	8,43,0	5.27e-05	5.00e-03	5.44e-04	8,8,43	1.00	0.07	0.93
3188	0.0	0.01	0.0	0,2,0	5.68e-05	1.33e-04	4.27e-03	2,44,2	0.0	0.0	0.0
	7.35e-04	2.19e-03	0.0	10,43,0	5.67e-05	9.77e-04	1.39e-03	2,10,43	1.00	0.07	0.93
3215	0.0	6.92e-03	0.0	0,2,0	5.68e-05	1.33e-04	2.41e-03	2,44,2	0.0	0.0	0.0
	0.0	2.19e-03	0.0	0,43,0	5.67e-05	8.86e-04	1.39e-03	2,45,43	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26		
	5.08e-03	0.05	0.0		2.22e-04	6.28e-03	0.02		0.0		

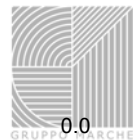
Setto	Mat.	N. strati	Spessore	Incoll.	Stato
58	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb			
ok	0.07	748.6	46	0.09	173.4	38	0.05	-9719.9	2.007e+05	18			
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
323	0.0	0.04	0.0	0,2,0	3.44e-05	1.99e-06	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	3.27e-04	6.13e-04	0.0	45,28,0	3.35e-05	3.91e-04	1.74e-04	28,45,28			1.00	0.07	0.93
329	0.0	0.04	0.0	0,2,0	3.44e-05	1.99e-06	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	3.27e-04	6.13e-04	0.0	45,28,0	3.35e-05	3.91e-04	1.74e-04	28,45,28			1.00	0.07	0.93
339	0.0	0.04	0.0	0,38,0	3.08e-05	6.75e-05	0.01	46,43,38	0.0	0	0.0	0.0	0.0
	2.27e-04	4.87e-04	0.0	35,44,0	3.05e-05	2.93e-04	1.53e-04	46,35,43			1.00	0.07	0.93
347	0.0	0.04	0.0	0,38,0	4.74e-05	8.43e-05	0.01	46,18,38	0.0	0	0.0	0.0	0.0
	2.27e-04	4.87e-04	0.0	35,44,0	4.72e-05	2.93e-04	2.25e-04	46,35,2			1.00	0.07	0.93
355	0.0	0.04	0.0	0,2,0	5.24e-05	5.04e-04	0.01	44,43,2	0.0	0	0.0	0.0	0.0
	3.12e-04	4.33e-04	0.0	45,44,0	5.18e-05	8.80e-04	5.72e-04	44,45,43			1.00	0.07	0.93
372	1.20e-03	0.04	0.0	45,28,0	5.24e-05	2.03e-03	0.01	44,45,28	0.0	0	0.95	0.03	0.97
	7.95e-04	2.97e-04	0.0	43,33,0	5.18e-05	1.27e-03	5.72e-04	44,43,43			1.00	0.07	0.93
378	1.20e-03	0.04	0.0	45,28,0	2.62e-05	2.03e-03	0.01	44,45,28	0.0	0	0.95	0.03	0.97
	7.95e-04	2.97e-04	0.0	43,33,0	2.59e-05	1.27e-03	3.77e-04	44,43,43			1.00	0.07	0.93
391	0.0	0.02	0.0	0,38,0	1.23e-04	1.84e-04	5.72e-03	28,8,38	0.0	0	0.0	0.0	0.0
	2.09e-04	1.26e-03	0.0	35,44,0	1.22e-04	2.52e-04	3.59e-04	28,35,43			1.00	0.07	0.93
419	0.0	0.02	0.0	0,38,0	1.23e-04	1.84e-04	5.72e-03	28,8,38	0.0	0	0.0	0.0	0.0
	2.09e-04	1.26e-03	0.0	35,44,0	1.22e-04	2.52e-04	3.59e-04	28,35,43			1.00	0.07	0.93
758	0.0	0.04	0.0	0,2,0	3.44e-05	3.32e-06	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	3.27e-04	8.26e-04	0.0	45,2,0	3.35e-05	3.91e-04	2.34e-04	28,45,2			1.00	0.07	0.93
762	0.0	0.04	0.0	0,2,0	3.44e-05	3.32e-06	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	3.27e-04	8.26e-04	0.0	45,2,0	3.35e-05	3.91e-04	2.34e-04	28,45,2			1.00	0.07	0.93
770	0.0	0.04	0.0	0,38,0	3.08e-05	6.75e-05	0.01	46,43,38	0.0	0	0.0	0.0	0.0
	2.27e-04	4.87e-04	0.0	35,44,0	3.05e-05	2.93e-04	1.53e-04	46,35,43			1.00	0.07	0.93
776	0.0	0.04	0.0	0,38,0	5.53e-05	8.43e-05	0.01	46,18,38	0.0	0	0.0	0.0	0.0
	2.27e-04	8.55e-04	0.0	35,2,0	5.51e-05	2.93e-04	2.68e-04	46,35,38			1.00	0.07	0.93
782	0.0	0.04	0.0	0,2,0	6.75e-05	5.04e-04	0.01	44,43,2	0.0	0	0.0	0.0	0.0
	3.12e-04	8.55e-04	0.0	45,2,0	6.72e-05	8.80e-04	5.72e-04	44,45,43			1.00	0.07	0.93
791	1.20e-03	0.04	0.0	45,2,0	6.75e-05	2.03e-03	0.02	44,45,2	0.0	0	0.95	0.03	0.97
	7.95e-04	6.13e-04	0.0	43,28,0	6.72e-05	1.27e-03	5.72e-04	44,43,43			1.00	0.07	0.93
797	1.20e-03	0.04	0.0	45,2,0	2.62e-05	2.03e-03	0.02	44,45,2	0.0	0	0.95	0.03	0.97
	7.95e-04	2.97e-04	0.0	43,33,0	2.59e-05	1.27e-03	3.77e-04	44,43,43			1.00	0.07	0.93
810	0.0	0.03	0.0	0,2,0	1.23e-04	1.84e-04	9.19e-03	28,8,2	0.0	0	0.0	0.0	0.0
	2.75e-04	1.26e-03	0.0	34,44,0	1.22e-04	3.27e-04	3.59e-04	28,34,43			1.00	0.07	0.93
838	0.0	0.03	0.0	0,2,0	1.23e-04	1.84e-04	9.19e-03	28,8,2	0.0	0	0.0	0.0	0.0
	2.75e-04	1.26e-03	0.0	34,44,0	1.22e-04	3.27e-04	3.59e-04	28,34,43			1.00	0.07	0.93
1142	0.0	0.04	0.0	0,2,0	7.47e-05	1.29e-05	0.01	44,43,2	0.0	0	0.0	0.0	0.0
	0.0	3.85e-03	0.0	0,38,0	7.44e-05	3.29e-05	1.09e-03	44,43,38			0.0	0.0	0.0
1148	0.0	0.04	0.0	0,2,0	7.47e-05	1.29e-05	0.01	44,43,2	0.0	0	0.0	0.0	0.0
	0.0	3.85e-03	0.0	0,38,0	7.44e-05	3.29e-05	1.09e-03	44,43,38			0.0	0.0	0.0
1158	0.0	0.04	0.0	0,2,0	3.07e-05	4.95e-05	0.01	34,43,2	0.0	0	0.0	0.0	0.0
	8.24e-04	2.30e-03	0.0	45,28,0	3.03e-05	1.06e-03	7.12e-04	34,45,28			1.00	0.07	0.93
1166	0.0	0.04	0.0	0,2,0	5.53e-05	1.66e-04	0.01	46,43,2	0.0	0	0.0	0.0	0.0
	8.24e-04	2.80e-03	0.0	45,28,0	5.51e-05	1.06e-03	8.26e-04	46,45,28			1.00	0.07	0.93
1174	0.0	0.03	0.0	0,2,0	8.10e-05	3.75e-04	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.43e-04	2.80e-03	0.0	45,28,0	8.03e-05	3.56e-04	8.26e-04	44,43,28			1.00	0.07	0.93
1191	0.0	0.04	0.0	0,2,0	8.10e-05	6.38e-04	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	3.60e-04	2.12e-03	0.0	45,2,0	8.03e-05	6.92e-04	8.20e-04	44,43,2			1.00	0.07	0.93
1197	0.0	0.04	0.0	0,2,0	4.30e-05	6.38e-04	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	3.60e-04	9.50e-04	0.0	45,2,0	4.18e-05	6.92e-04	2.99e-04	38,43,2			1.00	0.07	0.93
1210	0.0	0.04	0.0	0,2,0	6.96e-05	9.85e-05	0.01	28,8,2	0.0	0	0.0	0.0	0.0
	2.75e-04	2.16e-04	0.0	34,45,0	6.92e-05	3.27e-04	6.98e-05	28,34,45			1.00	0.07	0.93
1238	0.0	0.04	0.0	0,2,0	6.96e-05	9.85e-05	0.01	28,8,2	0.0	0	0.0	0.0	0.0
	2.75e-04	2.16e-04	0.0	34,45,0	6.92e-05	3.27e-04	6.98e-05	28,34,45			1.00	0.07	0.93
1512	0.0	0.04	0.0	0,2,0	7.85e-05	1.29e-05	0.01	38,43,2	0.0	0	0.0	0.0	0.0
	0.0	4.67e-03	0.0	0,38,0	7.81e-05	3.68e-05	1.32e-03	38,43,38			0.0	0.0	0.0
1514	0.0	0.04	0.0	0,2,0	7.85e-05	1.90e-05	0.01	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.68e-03	0.0	0,2,0	7.81e-05	6.33e-05	1.62e-03	38,43,2			0.0	0.0	0.0
1520	0.0	0.04	0.0	0,2,0	5.14e-05	4.50e-05	0.01	44,43,2	0.0	0	0.0	0.0	0.0
	8.24e-04	5.68e-03	0.0	45,2,0	5.14e-05	1.06e-03	1.62e-03	44,45,2			1.00	0.07	0.93
1552	0.0	0.04	0.0	0,2,0	4.92e-05	1.66e-04	0.01	46,43,2	0.0	0	0.0	0.0	0.0
	8.24e-04	5.79e-03	0.0	45,38,0	4.88e-05	1.06e-03	1.68e-03	46,45,38			1.00	0.07	0.93
1574	0.0	0.03	0.0	0,2,0	8.45e-05	3.92e-04	0.01	38,18,2	0.0	0	0.0	0.0	0.0
	1.43e-04	7.84e-03	0.0	45,38,0	8.36e-05	7.27e-04	2.58e-03	38,43,38			1.00	0.07	0.93
1647	0.0	0.06	0.0	0,2,0	4.61e-04	6.79e-04	0.02	2,18,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
RELAZIONE DI RESISTENZA AL FUOCO



1653	0.0	7.84e-03	0.0	0,38,0	4.59e-04	7.27e-04	2.58e-03	2,43,38	0.0	0	0.0	0.0	0.0
	0.0	0.06	0.0	0,2,0	4.61e-04	6.79e-04	0.02	2,18,2	0.0	0	0.0	0.0	0.0
	0.0	7.02e-03	0.0	0,2,0	4.59e-04	3.95e-04	2.01e-03	2,43,38	0.0	0	0.0	0.0	0.0
1664	0.0	0.06	0.0	0,2,0	1.45e-04	1.86e-04	0.02	38,34,2	0.0	0	0.0	0.0	0.0
	1.87e-03	9.59e-04	0.0	45,34,0	1.43e-04	2.28e-03	3.23e-04	38,45,34	0.0	0	1.00	0.07	0.93
1692	0.0	0.06	0.0	0,2,0	1.45e-04	1.86e-04	0.02	38,34,2	0.0	0	0.0	0.0	0.0
	1.87e-03	9.59e-04	0.0	45,34,0	1.43e-04	2.28e-03	3.23e-04	38,45,34	0.0	0	1.00	0.07	0.93
2176	0.0	0.03	0.0	0,2,0	7.85e-05	7.12e-06	0.01	38,23,2	0.0	0	0.0	0.0	0.0
	1.71e-03	4.67e-03	0.0	20,38,0	7.81e-05	2.07e-03	1.32e-03	38,20,38	0.0	0	1.00	0.07	0.93
2182	0.0	0.03	0.0	0,2,0	7.85e-05	1.90e-05	0.01	38,2,2	0.0	0	0.0	0.0	0.0
	1.71e-03	5.68e-03	0.0	20,2,0	7.81e-05	2.07e-03	1.62e-03	38,20,2	0.0	0	1.00	0.07	0.93
2192	0.0	0.03	0.0	0,2,0	6.12e-05	4.50e-05	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	1.18e-03	5.68e-03	0.0	33,2,0	6.09e-05	1.50e-03	1.62e-03	28,33,2	0.0	0	1.00	0.07	0.93
2200	0.0	0.03	0.0	0,2,0	6.12e-05	2.79e-04	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	1.30e-03	5.79e-03	0.0	33,38,0	6.09e-05	1.82e-03	1.68e-03	28,33,38	0.0	0	1.00	0.07	0.93
2208	0.0	0.03	0.0	0,2,0	8.45e-05	9.64e-04	0.01	38,43,2	0.0	0	0.0	0.0	0.0
	1.61e-03	7.84e-03	0.0	35,38,0	8.36e-05	2.48e-03	2.58e-03	38,33,38	0.0	0	1.00	0.07	0.93
2251	0.0	0.06	0.0	0,2,0	8.36e-04	1.80e-03	0.02	2,43,2	0.0	0	0.0	0.0	0.0
	2.71e-03	7.84e-03	0.0	33,38,0	8.34e-04	4.04e-03	2.58e-03	2,33,38	0.0	0	1.00	0.07	0.93
2263	0.0	0.06	0.0	0,2,0	3.50e-03	1.80e-03	0.02	2,43,2	0.0	0	0.0	0.0	0.0
	0.02	7.02e-03	0.0	2,2,0	3.50e-03	0.02	2.01e-03	2,2,38	0.0	0	1.00	0.07	0.93
2278	0.0	0.01	0.0	0,2,0	3.50e-03	6.73e-05	5.48e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.05	0.0	0.0	2,0,0	3.50e-03	0.06	3.85e-04	2,2,43	0.0	0	1.00	0.07	0.93
2288	0.0	0.06	0.0	0,2,0	2.29e-03	4.04e-04	0.02	2,33,2	0.0	0	0.0	0.0	0.0
	0.05	9.59e-04	0.0	2,34,0	2.29e-03	0.06	3.23e-04	2,2,34	0.0	0	1.00	0.07	0.93
2333	0.0	0.06	0.0	0,2,0	2.29e-03	4.04e-04	0.02	2,33,2	0.0	0	0.0	0.0	0.0
	0.02	9.59e-04	0.0	38,34,0	2.29e-03	0.02	3.23e-04	2,38,34	0.0	0	1.00	0.07	0.93
2442	0.0	0.03	0.0	0,2,0	2.29e-03	4.04e-04	0.01	2,33,2	0.0	0	0.0	0.0	0.0
	0.02	0.0	0.0	38,0,0	2.29e-03	0.02	2.97e-04	2,38,28	0.0	0	1.00	0.07	0.93
2455	0.0	0.03	0.0	0,2,0	2.29e-03	4.04e-04	0.01	2,33,2	0.0	0	0.0	0.0	0.0
	0.05	0.0	0.0	2,0,0	2.29e-03	0.06	2.97e-04	2,2,28	0.0	0	1.00	0.07	0.93
2474	0.0	0.01	0.0	0,2,0	3.50e-03	6.73e-05	5.48e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.05	0.0	0.0	2,0,0	3.50e-03	0.06	3.85e-04	2,2,43	0.0	0	1.00	0.07	0.93
2497	0.0	0.04	0.0	0,2,0	3.50e-03	1.80e-03	0.01	2,43,2	0.0	0	0.0	0.0	0.0
	0.02	2.37e-03	0.0	2,44,0	3.50e-03	0.02	1.69e-03	2,2,44	0.0	0	1.00	0.07	0.93
2543	0.0	0.04	0.0	0,2,0	8.36e-04	1.80e-03	0.01	2,43,2	0.0	0	0.0	0.0	0.0
	2.71e-03	3.75e-03	0.0	33,44,0	8.34e-04	4.04e-03	2.19e-03	2,33,43	0.0	0	1.00	0.07	0.93
2564	0.0	0.02	0.0	0,2,0	9.55e-06	9.64e-04	8.67e-03	33,43,2	0.0	0	0.0	0.0	0.0
	1.61e-03	3.75e-03	0.0	35,44,0	9.31e-06	2.48e-03	2.19e-03	33,33,43	0.0	0	1.00	0.07	0.93
2580	0.0	0.02	0.0	0,2,0	6.12e-05	2.79e-04	9.05e-03	28,43,2	0.0	0	0.0	0.0	0.0
	1.30e-03	3.02e-03	0.0	33,44,0	6.09e-05	1.82e-03	9.15e-04	28,33,44	0.0	0	1.00	0.07	0.93
2599	0.0	0.02	0.0	0,2,0	6.12e-05	3.20e-05	9.05e-03	28,2,2	0.0	0	0.0	0.0	0.0
	1.18e-03	2.29e-03	0.0	33,44,0	6.09e-05	1.50e-03	6.66e-04	28,33,44	0.0	0	1.00	0.07	0.93
2622	0.0	0.02	0.0	0,2,0	4.24e-05	1.51e-05	8.47e-03	38,18,2	0.0	0	0.0	0.0	0.0
	1.71e-03	2.07e-03	0.0	20,44,0	4.21e-05	2.07e-03	5.95e-04	38,20,44	0.0	0	1.00	0.07	0.93
2640	0.0	0.02	0.0	0,2,0	4.24e-05	7.12e-06	8.47e-03	38,23,2	0.0	0	0.0	0.0	0.0
	1.71e-03	5.97e-04	0.0	20,43,0	4.21e-05	2.07e-03	1.86e-04	38,20,43	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.06	0.0		3.50e-03	0.06	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
59	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.06	daN	45	0.10	daN	38	0.04	daN	daN cm	40
		805.5			200.1			-7219.5	1.423e+05	

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
283	1.55e-03	0.01	0.0	25,8,0	2.10e-04	9.26e-03	0.01	25,25,24	0.0	0	0.96	0.03	0.97
	6.95e-03	6.02e-03	0.0	25,24,0	1.32e-04	0.02	0.02	25,25,24	0.0	0	1.00	0.07	0.93
291	5.44e-03	0.03	0.0	25,18,0	2.10e-04	0.02	0.02	25,25,24	0.0	0	0.96	0.03	0.97
	7.46e-03	6.02e-03	0.0	26,24,0	1.32e-04	0.02	0.02	25,25,24	0.0	0	1.00	0.07	0.93
295	8.98e-03	0.03	0.0	25,18,0	1.49e-04	0.02	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	7.67e-03	5.63e-03	0.0	25,24,0	8.65e-05	0.02	9.02e-03	24,25,23	0.0	0	1.00	0.07	0.93
299	0.01	0.03	0.0	25,18,0	7.29e-05	0.03	0.03	24,25,24	0.0	0	0.96	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



303	7.67e-03	5.63e-03	0.0	25,24,0	3.19e-05	0.02	4.83e-03	24,25,23	0.0	0	1.00	0.07	0.93
	0.01	0.03	0.0	25,18,0	4.09e-05	0.03	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	6.00e-03	4.43e-03	0.0	25,24,0	1.49e-05	0.01	2.28e-03	45,25,24	0.0	0	1.00	0.07	0.93
311	0.01	0.02	0.0	25,24,0	3.63e-05	0.03	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	4.40e-03	3.27e-03	0.0	25,24,0	1.50e-05	0.01	1.60e-03	45,25,24	0.0	0	1.00	0.07	0.93
319	0.01	0.02	0.0	25,24,0	4.11e-05	0.03	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	3.65e-03	2.74e-03	0.0	25,24,0	1.52e-05	8.45e-03	2.56e-03	45,25,24	0.0	0	1.00	0.07	0.93
327	0.01	0.02	0.0	25,24,0	4.11e-05	0.03	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	3.65e-03	2.74e-03	0.0	25,24,0	1.52e-05	8.45e-03	2.56e-03	45,25,24	0.0	0	1.00	0.07	0.93
730	8.47e-03	0.02	0.0	25,18,0	2.10e-04	0.01	0.01	25,25,24	0.0	0	0.96	0.03	0.97
	0.01	0.01	0.0	25,24,0	1.32e-04	0.03	0.02	25,25,24	0.0	0	1.00	0.07	0.93
736	0.03	0.04	0.0	25,24,0	2.10e-04	0.03	0.02	25,25,24	0.0	0	0.96	0.03	0.97
	0.03	0.02	0.0	24,23,0	1.32e-04	0.06	0.02	25,24,24	0.0	0	1.00	0.07	0.93
738	0.04	0.04	0.0	25,24,0	1.49e-04	0.04	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	0.03	0.02	0.0	24,23,0	8.65e-05	0.06	0.01	24,24,23	0.0	0	1.00	0.07	0.93
740	0.05	0.05	0.0	25,24,0	7.29e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.03	0.02	0.0	25,24,0	3.19e-05	0.06	9.76e-03	24,25,24	0.0	0	1.00	0.07	0.93
742	0.05	0.05	0.0	25,24,0	4.09e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.02	0.0	25,24,0	1.49e-05	0.05	7.71e-03	45,25,24	0.0	0	1.00	0.07	0.93
748	0.05	0.05	0.0	25,24,0	3.89e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	25,24,0	1.50e-05	0.03	5.67e-03	45,25,24	0.0	0	1.00	0.07	0.93
754	0.05	0.05	0.0	25,24,0	4.11e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.01	9.37e-03	0.0	25,24,0	1.52e-05	0.03	4.59e-03	45,25,24	0.0	0	1.00	0.07	0.93
760	0.05	0.05	0.0	25,24,0	4.11e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.01	9.37e-03	0.0	25,24,0	1.52e-05	0.03	4.59e-03	45,25,24	0.0	0	1.00	0.07	0.93
1102	0.01	0.03	0.0	25,18,0	1.29e-04	0.01	0.01	26,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	25,24,0	8.32e-05	0.05	0.02	26,25,24	0.0	0	1.00	0.07	0.93
1110	0.04	0.04	0.0	25,24,0	1.29e-04	0.03	0.02	26,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	8.32e-05	0.10	0.02	26,25,24	0.0	0	1.00	0.07	0.93
1114	0.06	0.06	0.0	25,24,0	1.04e-04	0.04	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	5.97e-05	0.10	0.02	24,25,24	0.0	0	1.00	0.07	0.93
1118	0.07	0.06	0.0	25,24,0	5.49e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	2.05e-05	0.09	0.02	24,25,24	0.0	0	1.00	0.07	0.93
1122	0.07	0.07	0.0	25,24,0	3.89e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.03	0.02	0.0	25,24,0	1.47e-05	0.07	0.01	45,25,24	0.0	0	1.00	0.07	0.93
1130	0.07	0.07	0.0	25,24,0	3.89e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.02	0.0	25,24,0	1.48e-05	0.05	8.66e-03	45,25,24	0.0	0	1.00	0.07	0.93
1138	0.07	0.06	0.0	25,24,0	3.85e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	25,24,0	1.49e-05	0.04	6.75e-03	45,25,24	0.0	0	1.00	0.07	0.93
1146	0.07	0.06	0.0	25,24,0	3.81e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	25,24,0	1.49e-05	0.04	6.57e-03	45,25,24	0.0	0	1.00	0.07	0.93
1523	0.01	0.03	0.0	25,18,0	5.96e-05	0.01	0.01	26,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	25,24,0	4.74e-05	0.05	0.02	25,25,24	0.0	0	1.00	0.07	0.93
1549	0.04	0.04	0.0	25,24,0	5.96e-05	0.03	0.02	26,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	4.74e-05	0.10	0.02	25,25,24	0.0	0	1.00	0.07	0.93
1554	0.06	0.06	0.0	25,24,0	4.67e-05	0.04	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	2.45e-05	0.10	0.02	24,25,24	0.0	0	1.00	0.07	0.93
1559	0.07	0.06	0.0	25,24,0	3.95e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	1.40e-05	0.09	0.02	24,25,24	0.0	0	1.00	0.07	0.93
1563	0.07	0.07	0.0	25,24,0	3.41e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.03	0.02	0.0	25,24,0	1.40e-05	0.07	0.01	45,25,24	0.0	0	1.00	0.07	0.93
1568	0.07	0.07	0.0	25,24,0	3.37e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.02	0.0	25,24,0	1.41e-05	0.05	8.66e-03	45,25,24	0.0	0	1.00	0.07	0.93
1571	0.07	0.06	0.0	25,24,0	3.35e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	25,24,0	1.43e-05	0.04	6.75e-03	46,25,24	0.0	0	1.00	0.07	0.93
1578	0.07	0.06	0.0	25,24,0	3.03e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	25,24,0	1.43e-05	0.04	6.57e-03	46,25,24	0.0	0	1.00	0.07	0.93
2126	0.01	0.03	0.0	25,18,0	1.86e-04	0.01	0.01	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	25,24,0	1.19e-04	0.04	0.02	24,25,24	0.0	0	1.00	0.07	0.93
2136	0.03	0.04	0.0	25,24,0	1.86e-04	0.03	0.02	24,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	1.19e-04	0.09	0.02	24,25,24	0.0	0	1.00	0.07	0.93
2140	0.05	0.05	0.0	25,24,0	1.34e-04	0.04	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	7.73e-05	0.09	0.01	24,25,24	0.0	0	1.00	0.07	0.93
2148	0.06	0.06	0.0	25,24,0	8.11e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	25,24,0	3.83e-05	0.09	0.01	24,25,24	0.0	0	1.00	0.07	0.93
2156	0.06	0.06	0.0	25,24,0	4.77e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.03	0.02	0.0	25,24,0	1.30e-05	0.07	0.01	24,25,24	0.0	0	1.00	0.07	0.93
2164	0.06	0.06	0.0	25,24,0	3.78e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.02	0.0	25,24,0	1.29e-05	0.05	7.48e-03	45,25,24	0.0	0	1.00	0.07	0.93
2172	0.06	0.05	0.0	25,24,0	3.79e-05	0.06	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.01	0.01	0.0	25,24,0	1.37e-05	0.03	5.47e-03	46,25,24	0.0	0	1.00	0.07	0.93
2180	0.06	0.05	0.0	25,24,0	3.79e-05	0.05	0.04	24,25,24	0.0	0	0.96	0.03	0.97
	0.01	0.01	0.0	25,24,0	1.37e-05	0.03	4.94e-03	46,25,24	0.0	0	1.00	0.07	0.93
2628	0.02	0.02	0.0	25,24,0	3.79e-05	0.03	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	2.63e-03	2.64e-03	0.0	25,24,0	1.35e-05	6.63e-03	3.63e-03	46,25,24	0.0	0	1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2644	0.02	0.03	0.0	25,24,0	3.79e-05	0.04	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	4.30e-03	3.67e-03	0.0	25,23,0	1.35e-05	0.01	3.63e-03	46,25,24			1.00	0.07	0.93
2661	0.02	0.03	0.0	25,24,0	3.78e-05	0.04	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	7.78e-03	6.12e-03	0.0	26,23,0	1.20e-05	0.02	3.06e-03	45,26,23			1.00	0.07	0.93
2785	0.02	0.03	0.0	25,24,0	4.77e-05	0.04	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	0.01	9.83e-03	0.0	26,23,0	1.30e-05	0.03	4.82e-03	24,26,23			1.00	0.07	0.93
2794	0.02	0.03	0.0	25,24,0	8.11e-05	0.04	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	26,25,0	3.83e-05	0.04	7.07e-03	24,25,25			1.00	0.07	0.93
2802	0.02	0.03	0.0	25,18,0	1.34e-04	0.03	0.03	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.02	0.0	25,25,0	7.73e-05	0.05	9.24e-03	24,25,23			1.00	0.07	0.93
2808	0.01	0.03	0.0	25,18,0	1.86e-04	0.02	0.02	24,25,24	0.0	0	0.96	0.03	0.97
	0.02	0.02	0.0	25,25,0	1.19e-04	0.05	0.02	24,25,25			1.00	0.07	0.93
2887	3.41e-03	0.02	0.0	25,18,0	1.86e-04	0.01	0.01	24,25,24	0.0	0	0.96	0.03	0.97
	0.01	7.61e-03	0.0	25,24,0	1.19e-04	0.03	0.02	24,25,25			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.07	0.07	0.0		2.10e-04	0.10	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
60	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0 cm	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	812.6	46	0.07	152.4	44	0.05	-4070.5	1.104e+05	44

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
327	9.59e-03	0.02	0.0	25,24,0	5.45e-05	0.02	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	4.25e-03	3.17e-03	0.0	25,26,0	1.99e-05	9.90e-03	4.07e-03	23,25,24			1.00	0.07	0.93
335	9.59e-03	0.02	0.0	25,24,0	7.66e-05	0.02	0.03	23,25,24	0.0	0	0.95	0.03	0.97
	4.25e-03	3.17e-03	0.0	25,26,0	3.89e-05	0.01	6.13e-03	23,25,25			1.00	0.07	0.93
343	6.86e-03	0.02	0.0	25,18,0	9.68e-05	0.02	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	4.25e-03	3.14e-03	0.0	25,26,0	5.79e-05	0.01	8.65e-03	23,25,25			1.00	0.07	0.93
351	2.83e-03	0.02	0.0	25,18,0	9.68e-05	9.56e-03	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	0.01	7.68e-03	0.0	26,25,0	5.79e-05	0.02	0.02	23,26,26			1.00	0.07	0.93
375	0.0	0.01	0.0	0,2,0	6.77e-05	1.79e-03	6.18e-03	23,26,18	0.0	0	0.0	0.0	0.0
	0.01	7.97e-03	0.0	26,25,0	5.19e-05	0.03	0.02	23,26,26			1.00	0.07	0.93
381	0.0	0.02	0.0	0,2,0	1.71e-05	1.79e-03	6.46e-03	46,26,18	0.0	0	0.0	0.0	0.0
	0.01	7.97e-03	0.0	26,25,0	1.71e-05	0.03	0.01	46,26,26			1.00	0.07	0.93
383	0.0	0.02	0.0	0,2,0	1.71e-05	1.36e-03	6.46e-03	46,24,18	0.0	0	0.0	0.0	0.0
	2.78e-03	2.70e-03	0.0	25,24,0	1.71e-05	6.81e-03	3.56e-03	46,25,24			1.00	0.07	0.93
421	0.0	6.79e-03	0.0	0,28,0	1.20e-05	1.17e-03	2.91e-03	46,24,18	0.0	0	0.0	0.0	0.0
	2.78e-03	2.70e-03	0.0	25,24,0	1.19e-05	6.81e-03	3.56e-03	46,25,24			1.00	0.07	0.93
760	0.04	0.04	0.0	25,24,0	5.45e-05	0.04	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	25,24,0	1.99e-05	0.03	5.32e-03	23,25,24			1.00	0.07	0.93
766	0.04	0.04	0.0	25,24,0	7.66e-05	0.04	0.03	23,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	25,24,0	3.89e-05	0.03	6.13e-03	23,25,25			1.00	0.07	0.93
772	0.03	0.04	0.0	25,24,0	9.68e-05	0.03	0.03	23,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	25,26,0	5.79e-05	0.03	9.61e-03	23,25,25			1.00	0.07	0.93
778	0.02	0.03	0.0	25,24,0	9.68e-05	0.02	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	0.03	0.03	0.0	25,25,0	5.79e-05	0.08	0.02	23,25,26			1.00	0.07	0.93
794	2.06e-03	0.02	0.0	25,18,0	6.77e-05	1.79e-03	7.10e-03	23,26,24	0.0	0	0.95	0.03	0.97
	0.04	0.03	0.0	25,25,0	5.19e-05	0.08	0.02	23,25,26			1.00	0.07	0.93
800	0.0	0.02	0.0	0,2,0	1.71e-05	1.79e-03	6.46e-03	46,26,18	0.0	0	0.0	0.0	0.0
	0.04	0.03	0.0	25,25,0	1.89e-05	0.08	0.02	26,25,26			1.00	0.07	0.93
802	0.0	0.02	0.0	0,2,0	1.71e-05	1.36e-03	6.46e-03	46,24,18	0.0	0	0.0	0.0	0.0
	5.74e-03	4.50e-03	0.0	25,24,0	1.71e-05	0.01	8.45e-03	46,25,25			1.00	0.07	0.93
840	0.0	9.08e-03	0.0	0,28,0	1.20e-05	1.17e-03	3.30e-03	46,24,28	0.0	0	0.0	0.0	0.0
	5.74e-03	4.50e-03	0.0	25,24,0	1.19e-05	0.01	4.53e-03	46,25,24			1.00	0.07	0.93
1146	0.06	0.05	0.0	25,24,0	4.37e-05	0.04	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,24,0	1.59e-05	0.05	7.42e-03	46,23,24			1.00	0.07	0.93
1154	0.06	0.05	0.0	25,24,0	5.11e-05	0.04	0.03	23,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,24,0	2.29e-05	0.05	7.42e-03	23,23,24			1.00	0.07	0.93
1162	0.04	0.04	0.0	25,24,0	5.44e-05	0.03	0.03	23,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	23,24,0	3.35e-05	0.04	0.01	23,23,23			1.00	0.07	0.93
1170	0.02	0.03	0.0	25,24,0	5.44e-05	0.02	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	25,25,0	4.03e-05	0.11	0.03	23,25,25			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1194	5.69e-03	0.02	0.0	25,18,0	3.60e-05	2.67e-03	7.99e-03	23,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.04	0.0	25,25,0	4.03e-05	0.11	0.03	23,25,25			1.00	0.07	0.93
1200	0.0	0.01	0.0	0,2,0	1.53e-05	7.95e-04	5.25e-03	44,25,18	0.0	0	0.0	0.0	0.0
	0.05	0.04	0.0	25,25,0	2.02e-05	0.11	0.03	26,25,25			1.00	0.07	0.93
1202	0.0	0.01	0.0	0,2,0	1.53e-05	7.89e-04	5.25e-03	44,23,18	0.0	0	0.0	0.0	0.0
	6.52e-03	4.90e-03	0.0	24,23,0	1.53e-05	0.02	0.01	44,24,25			1.00	0.07	0.93
1240	0.0	9.56e-03	0.0	0,2,0	9.09e-06	7.41e-05	3.49e-03	45,11,2	0.0	0	0.0	0.0	0.0
	6.52e-03	4.90e-03	0.0	24,23,0	9.06e-06	0.02	4.53e-03	45,24,24			1.00	0.07	0.93
1578	0.06	0.05	0.0	25,24,0	3.15e-05	0.04	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,24,0	1.61e-05	0.05	7.42e-03	46,23,24			1.00	0.07	0.93
1583	0.06	0.05	0.0	25,24,0	3.92e-05	0.04	0.03	26,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,24,0	1.69e-05	0.05	7.42e-03	46,23,24			1.00	0.07	0.93
1586	0.04	0.04	0.0	25,24,0	4.50e-05	0.03	0.03	26,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	23,24,0	2.82e-05	0.04	0.01	26,23,23			1.00	0.07	0.93
1590	0.02	0.03	0.0	25,24,0	4.50e-05	0.02	0.02	26,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	25,25,0	3.51e-05	0.11	0.03	25,25,25			1.00	0.07	0.93
1650	5.69e-03	0.02	0.0	25,18,0	2.82e-05	2.67e-03	7.99e-03	25,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.04	0.0	25,25,0	3.51e-05	0.11	0.03	25,25,25			1.00	0.07	0.93
1693	0.0	0.01	0.0	0,18,0	1.36e-05	9.73e-04	4.97e-03	46,25,18	0.0	0	0.0	0.0	0.0
	0.05	0.04	0.0	25,25,0	2.03e-05	0.11	0.03	23,25,25			1.00	0.07	0.93
1694	0.0	0.01	0.0	0,2,0	1.16e-05	5.22e-04	4.61e-03	46,23,18	0.0	0	0.0	0.0	0.0
	6.52e-03	4.90e-03	0.0	24,23,0	1.16e-05	0.02	0.01	46,24,25			1.00	0.07	0.93
1696	0.0	9.56e-03	0.0	0,2,0	5.16e-06	8.73e-05	3.49e-03	45,11,2	0.0	0	0.0	0.0	0.0
	6.52e-03	4.90e-03	0.0	24,23,0	5.13e-06	0.02	4.44e-03	45,24,23			1.00	0.07	0.93
2180	0.05	0.04	0.0	25,24,0	5.00e-05	0.04	0.03	26,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	25,24,0	1.79e-05	0.03	5.25e-03	46,25,24			1.00	0.07	0.93
2188	0.05	0.04	0.0	25,24,0	7.59e-05	0.04	0.03	26,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	25,24,0	3.96e-05	0.03	7.42e-03	26,25,24			1.00	0.07	0.93
2196	0.04	0.04	0.0	25,24,0	9.82e-05	0.03	0.03	26,25,24	0.0	0	0.95	0.03	0.97
	0.01	9.11e-03	0.0	23,24,0	5.99e-05	0.03	9.87e-03	26,23,26			1.00	0.07	0.93
2204	0.02	0.03	0.0	25,24,0	9.82e-05	0.02	0.02	26,25,24	0.0	0	0.95	0.03	0.97
	0.04	0.03	0.0	25,23,0	5.99e-05	0.09	0.02	26,23,23			1.00	0.07	0.93
2260	3.83e-03	0.02	0.0	25,18,0	6.69e-05	2.84e-03	7.05e-03	25,26,24	0.0	0	0.95	0.03	0.97
	0.04	0.03	0.0	25,23,0	4.86e-05	0.09	0.02	25,23,23			1.00	0.07	0.93
2270	0.0	0.01	0.0	0,2,0	1.70e-05	9.73e-04	4.66e-03	44,23,8	0.0	0	0.0	0.0	0.0
	0.04	0.03	0.0	23,23,0	2.03e-05	0.08	0.02	23,23,23			1.00	0.07	0.93
2280	0.0	0.01	0.0	0,2,0	1.61e-05	1.23e-03	4.61e-03	28,26,18	0.0	0	0.0	0.0	0.0
	5.48e-03	4.27e-03	0.0	23,24,0	1.60e-05	0.01	8.58e-03	28,23,23			1.00	0.07	0.93
2335	0.0	9.51e-03	0.0	0,2,0	1.61e-05	1.23e-03	4.09e-03	28,26,18	0.0	0	0.0	0.0	0.0
	5.48e-03	4.27e-03	0.0	23,24,0	1.60e-05	0.01	4.44e-03	28,23,23			1.00	0.07	0.93
2451	0.0	9.39e-03	0.0	0,2,0	1.61e-05	1.23e-03	4.09e-03	28,26,18	0.0	0	0.0	0.0	0.0
	2.16e-03	2.35e-03	0.0	25,24,0	1.60e-05	5.45e-03	3.06e-03	28,25,24			1.00	0.07	0.93
2465	0.0	0.01	0.0	0,2,0	1.61e-05	1.23e-03	4.46e-03	28,26,18	0.0	0	0.0	0.0	0.0
	2.16e-03	2.35e-03	0.0	25,24,0	1.60e-05	5.45e-03	3.06e-03	28,25,24			1.00	0.07	0.93
2483	0.0	0.01	0.0	0,2,0	1.70e-05	9.73e-04	4.55e-03	44,23,18	0.0	0	0.0	0.0	0.0
	0.01	0.01	0.0	25,24,0	1.68e-05	0.03	0.01	44,23,23			1.00	0.07	0.93
2552	0.0	0.01	0.0	0,18,0	6.69e-05	2.84e-03	6.47e-03	25,26,24	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	23,24,0	4.86e-05	0.04	0.02	25,23,24			1.00	0.07	0.93
2568	6.68e-03	0.02	0.0	25,18,0	9.82e-05	0.01	0.02	26,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	23,24,0	5.99e-05	0.04	0.02	26,23,24			1.00	0.07	0.93
2586	0.01	0.02	0.0	25,24,0	9.82e-05	0.02	0.02	26,25,24	0.0	0	0.95	0.03	0.97
	3.02e-03	3.10e-03	0.0	25,24,0	5.99e-05	0.01	9.87e-03	26,25,26			1.00	0.07	0.93
2609	0.02	0.02	0.0	25,24,0	7.59e-05	0.03	0.03	26,25,24	0.0	0	0.95	0.03	0.97
	1.58e-03	2.01e-03	0.0	25,24,0	3.96e-05	7.26e-03	7.42e-03	26,23,24			1.00	0.07	0.93
2628	0.02	0.02	0.0	25,24,0	5.00e-05	0.03	0.03	26,25,24	0.0	0	0.95	0.03	0.97
	1.58e-03	2.01e-03	0.0	25,24,0	1.79e-05	5.35e-03	5.25e-03	46,25,24			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.06	0.05	0.0		9.82e-05	0.11	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
61	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.21	-147.2	28	0.87	1218.3	2	0.01	-317.1	5702.0	45

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
387	0.0	0.01	0.0	0,38,0	7.50e-05	6.87e-05	5.41e-03	28,12,38	0.0	0	0.0	0.0	0.0
	0.0	1.89e-03	0.0	0,38,0	7.46e-05	1.06e-04	6.07e-04	28,8,38			0.0	0.0	0.0
410	0.0	0.01	0.0	0,38,0	7.50e-05	6.87e-05	5.41e-03	28,12,38	0.0	0	0.0	0.0	0.0
	0.0	1.89e-03	0.0	0,38,0	7.46e-05	1.06e-04	6.07e-04	28,8,38			0.0	0.0	0.0
806	0.0	0.02	0.0	0,38,0	7.50e-05	6.87e-05	7.40e-03	28,12,38	0.0	0	0.0	0.0	0.0
	1.83e-04	1.89e-03	0.0	35,38,0	7.46e-05	2.18e-04	6.07e-04	28,35,38			1.00	0.07	0.93
829	0.0	0.02	0.0	0,38,0	7.50e-05	6.87e-05	7.40e-03	28,12,38	0.0	0	0.0	0.0	0.0
	1.83e-04	1.89e-03	0.0	35,38,0	7.46e-05	2.18e-04	6.07e-04	28,35,38			1.00	0.07	0.93
1206	0.0	0.03	0.0	0,2,0	5.87e-05	4.03e-05	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	1.83e-04	3.49e-04	0.0	35,44,0	5.82e-05	2.18e-04	1.07e-04	28,35,44			1.00	0.07	0.93
1229	0.0	0.03	0.0	0,2,0	5.87e-05	4.03e-05	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	1.83e-04	3.49e-04	0.0	35,44,0	5.82e-05	2.18e-04	1.07e-04	28,35,44			1.00	0.07	0.93
1660	0.0	0.03	0.0	0,2,0	7.85e-05	3.11e-04	0.01	38,23,2	0.0	0	0.0	0.0	0.0
	1.96e-03	1.63e-03	0.0	45,34,0	7.77e-05	2.36e-03	6.65e-04	38,45,28			1.00	0.07	0.93
1683	0.0	0.03	0.0	0,2,0	7.85e-05	3.11e-04	0.01	38,23,2	0.0	0	0.0	0.0	0.0
	1.96e-03	1.63e-03	0.0	45,34,0	7.77e-05	2.36e-03	6.65e-04	38,45,28			1.00	0.07	0.93
2241	1.34e-04	5.63e-03	0.0	45,2,0	1.81e-03	2.16e-04	2.26e-03	2,2,2	0.0	0	0.95	0.03	0.97
	0.03	0.0	0.0	44,0,0	1.80e-03	0.03	1.15e-04	2,44,2			1.00	0.07	0.93
2268	1.34e-04	5.73e-03	0.0	45,2,0	1.81e-03	2.16e-04	2.26e-03	2,2,2	0.0	0	0.95	0.03	0.97
	0.05	0.0	0.0	38,0,0	1.80e-03	0.06	1.15e-04	2,38,2			1.00	0.07	0.93
2274	0.0	0.01	0.0	0,2,0	1.41e-03	7.02e-05	3.72e-03	38,8,2	0.0	0	0.0	0.0	0.0
	0.05	0.0	0.0	38,0,0	1.40e-03	0.06	2.51e-04	38,38,38			1.00	0.07	0.93
2284	0.0	0.03	0.0	0,2,0	1.41e-03	3.86e-04	0.01	38,23,2	0.0	0	0.0	0.0	0.0
	0.04	1.63e-03	0.0	38,34,0	1.40e-03	0.05	8.72e-04	38,38,24			1.00	0.07	0.93
2317	0.0	0.03	0.0	0,2,0	3.53e-04	3.86e-04	0.01	28,23,2	0.0	0	0.0	0.0	0.0
	0.01	1.63e-03	0.0	38,34,0	3.48e-04	0.02	8.72e-04	28,38,24			1.00	0.07	0.93
2426	0.0	0.02	0.0	0,2,0	3.53e-04	3.86e-04	6.63e-03	28,23,2	0.0	0	0.0	0.0	0.0
	0.01	5.68e-04	0.0	38,35,0	3.48e-04	0.02	8.72e-04	28,38,24			1.00	0.07	0.93
2459	0.0	0.02	0.0	0,2,0	1.41e-03	3.86e-04	6.63e-03	38,23,2	0.0	0	0.0	0.0	0.0
	0.04	5.68e-04	0.0	38,35,0	1.40e-03	0.05	8.72e-04	38,38,24			1.00	0.07	0.93
2478	0.0	0.01	0.0	0,2,0	1.41e-03	7.02e-05	3.72e-03	38,8,2	0.0	0	0.0	0.0	0.0
	0.05	0.0	0.0	38,0,0	1.40e-03	0.06	2.51e-04	38,38,38			1.00	0.07	0.93
2491	1.34e-04	5.73e-03	0.0	45,2,0	1.81e-03	2.16e-04	2.26e-03	2,2,2	0.0	0	0.95	0.03	0.97
	0.05	0.0	0.0	38,0,0	1.80e-03	0.06	1.15e-04	2,38,2			1.00	0.07	0.93
2533	1.34e-04	5.63e-03	0.0	45,2,0	1.81e-03	2.16e-04	2.26e-03	2,2,2	0.0	0	0.95	0.03	0.97
	0.03	0.0	0.0	44,0,0	1.80e-03	0.03	1.15e-04	2,44,2			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.03	0.0		1.81e-03	0.06	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
62	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	81.5	18	1.08e-03	18.1	23	7.68e-04	-17.8	1440.6	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2390	0.01	0.01	0.0	25,24,0	1.22e-03	0.04	0.05	24,25,23	0.0	0	0.61	0.05	0.95
	5.44e-03	4.53e-03	0.0	25,24,0	1.69e-03	0.17	0.17	24,25,23			1.00	0.07	0.93
2466	0.01	0.01	0.0	25,24,0	1.41e-03	0.04	0.05	25,25,23	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	1.69e-03	0.17	0.17	24,25,23			1.00	0.07	0.93
2484	4.22e-03	3.30e-03	0.0	26,23,0	1.41e-03	4.09e-03	4.87e-03	25,26,23	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	7.25e-04	0.12	0.02	25,25,24			1.00	0.07	0.93
2554	8.65e-04	1.09e-03	0.0	26,23,0	7.75e-04	2.96e-03	3.65e-03	24,25,24	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	3.98e-04	0.12	0.02	24,25,24			1.00	0.07	0.93
2570	6.31e-04	1.08e-03	0.0	25,24,0	3.48e-04	2.96e-03	3.65e-03	23,25,24	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	1.80e-04	0.11	0.02	23,25,24			1.00	0.07	0.93
2582	7.39e-05	5.47e-04	0.0	25,24,0	9.90e-05	2.75e-03	2.95e-03	24,23,24	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	25,24,0	5.61e-05	0.09	0.02	24,25,24			1.00	0.07	0.93
2600	3.70e-04	2.20e-04	0.0	18,43,0	3.44e-05	2.87e-03	2.87e-03	24,24,23	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	25,24,0	1.86e-05	0.08	0.01	24,25,24			1.00	0.07	0.93
2612	4.12e-04	5.09e-04	0.0	26,23,0	1.83e-04	3.17e-03	3.43e-03	24,26,23	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	25,24,0	1.02e-04	0.07	0.01	24,25,24			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2618	1.34e-03	1.40e-03	0.0	25,24,0	5.09e-04	4.68e-03	5.26e-03	24,25,24	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	25,23,0	2.75e-04	0.06	0.01	24,25,23			1.00	0.07	0.93
2635	6.63e-03	5.25e-03	0.0	25,24,0	1.24e-03	0.02	0.02	23,25,24	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	26,23,0	6.41e-04	0.05	9.84e-03	23,26,23			1.00	0.07	0.93
2652	6.63e-03	5.25e-03	0.0	25,24,0	1.24e-03	0.02	0.02	23,25,24	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	26,23,0	6.41e-04	0.04	9.84e-03	23,26,23			1.00	0.07	0.93
2722	0.03	0.02	0.0	26,23,0	2.20e-03	0.12	0.10	23,26,24	0.0	0	0.61	0.05	0.95
	0.07	0.05	0.0	26,23,0	1.74e-03	0.17	0.15	23,26,24			1.00	0.07	0.93
2953	0.01	0.01	0.0	25,24,0	1.41e-03	0.04	0.05	25,25,23	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	1.69e-03	0.17	0.17	24,25,23			1.00	0.07	0.93
2957	4.22e-03	3.30e-03	0.0	26,23,0	1.41e-03	4.09e-03	4.87e-03	25,26,23	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	7.25e-04	0.12	0.02	25,25,24			1.00	0.07	0.93
2961	8.65e-04	1.09e-03	0.0	26,23,0	7.75e-04	2.96e-03	3.65e-03	24,25,24	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	3.98e-04	0.12	0.02	24,25,24			1.00	0.07	0.93
2965	6.31e-04	1.08e-03	0.0	25,24,0	3.48e-04	2.96e-03	3.65e-03	23,25,24	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	1.80e-04	0.11	0.02	23,25,24			1.00	0.07	0.93
2969	7.39e-05	5.47e-04	0.0	25,24,0	9.90e-05	2.75e-03	2.95e-03	24,23,24	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	25,24,0	5.61e-05	0.09	0.02	24,25,24			1.00	0.07	0.93
2977	3.70e-04	2.20e-04	0.0	18,43,0	3.44e-05	2.87e-03	2.87e-03	24,24,23	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	25,24,0	1.86e-05	0.08	0.01	24,25,24			1.00	0.07	0.93
2979	4.12e-04	5.09e-04	0.0	26,23,0	1.83e-04	3.17e-03	3.43e-03	24,26,23	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	25,24,0	1.02e-04	0.07	0.01	24,25,24			1.00	0.07	0.93
2981	1.34e-03	1.40e-03	0.0	25,24,0	5.09e-04	4.68e-03	5.26e-03	24,25,24	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	25,23,0	2.75e-04	0.06	0.01	24,25,23			1.00	0.07	0.93
2983	6.63e-03	5.25e-03	0.0	25,24,0	1.24e-03	0.02	0.02	23,25,24	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	26,23,0	6.41e-04	0.05	9.84e-03	23,26,23			1.00	0.07	0.93
2985	0.03	0.02	0.0	26,23,0	2.20e-03	0.12	0.10	23,26,24	0.0	0	0.61	0.05	0.95
	0.07	0.05	0.0	26,23,0	1.74e-03	0.17	0.15	23,26,24			1.00	0.07	0.93
2991	0.03	0.02	0.0	26,23,0	2.20e-03	0.12	0.10	23,26,24	0.0	0	0.61	0.05	0.95
	0.07	0.05	0.0	26,23,0	1.74e-03	0.17	0.15	23,26,24			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.07	0.05	0.0		2.20e-03	0.17	0.17		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
63	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.10	970.2	38	0.10	-69.0	2	0.04	-8239.9	1.939e+05	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
175	0.0	6.35e-03	0.0	0,38,0	9.75e-05	1.95e-03	3.58e-03	18,24,24	0.0	0	0.0	0.0	0.0
	9.52e-03	6.46e-03	0.0	24,24,0	7.97e-05	0.02	0.02	18,24,24			1.00	0.07	0.93
178	0.0	0.02	0.0	0,18,0	9.75e-05	9.00e-03	0.02	18,24,24	0.0	0	0.0	0.0	0.0
	9.52e-03	6.46e-03	0.0	24,24,0	7.97e-05	0.02	0.02	18,24,24			1.00	0.07	0.93
182	2.49e-03	0.03	0.0	25,18,0	9.23e-05	0.01	0.02	18,24,24	0.0	0	0.98	0.03	0.97
	6.08e-03	4.71e-03	0.0	24,24,0	7.57e-05	0.01	2.93e-03	38,24,18			1.00	0.07	0.93
186	2.49e-03	0.04	0.0	25,18,0	8.44e-05	0.01	0.03	38,24,24	0.0	0	0.98	0.03	0.97
	4.09e-03	3.09e-03	0.0	24,24,0	7.57e-05	9.48e-03	2.23e-03	38,24,18			1.00	0.07	0.93
190	2.21e-03	0.05	0.0	25,18,0	7.35e-05	0.02	0.03	38,24,18	0.0	0	0.98	0.03	0.97
	9.98e-03	2.81e-03	0.0	18,24,0	6.66e-05	0.02	5.93e-03	38,18,13			1.00	0.07	0.93
192	1.58e-05	0.05	0.0	45,18,0	2.94e-05	0.02	0.03	18,24,18	0.0	0	0.98	0.03	0.97
	0.01	6.24e-03	0.0	24,13,0	2.30e-05	0.03	5.93e-03	38,24,13			1.00	0.07	0.93
197	1.58e-05	3.67e-03	0.0	45,28,0	6.31e-05	9.38e-04	1.90e-03	24,24,2	0.0	0	0.98	0.03	0.97
	0.01	6.24e-03	0.0	24,13,0	3.95e-05	0.03	6.71e-03	24,24,13			1.00	0.07	0.93
201	0.0	0.03	0.0	0,8,0	6.31e-05	9.38e-04	0.01	24,24,2	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	13,13,0	3.95e-05	0.04	8.69e-03	24,13,13			1.00	0.07	0.93
219	0.0	0.05	0.0	0,2,0	4.92e-05	4.35e-03	0.02	18,24,2	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	13,13,0	3.91e-05	0.04	0.02	18,13,13			1.00	0.07	0.93
221	0.0	0.05	0.0	0,2,0	8.78e-06	4.35e-03	0.02	24,24,2	0.0	0	0.0	0.0	0.0
	7.76e-03	5.82e-03	0.0	13,13,0	1.25e-05	0.02	0.02	11,13,13			1.00	0.07	0.93
223	0.0	9.72e-03	0.0	0,38,0	1.44e-04	1.87e-03	4.67e-03	12,12,12	0.0	0	0.0	0.0	0.0
	0.0	8.93e-04	0.0	0,44,0	8.84e-05	4.95e-03	5.11e-03	12,12,12			0.0	0.0	0.0
281	0.0	9.72e-03	0.0	0,38,0	1.44e-04	1.87e-03	4.67e-03	12,12,12	0.0	0	0.0	0.0	0.0
	0.0	8.93e-04	0.0	0,44,0	8.84e-05	4.95e-03	5.11e-03	12,12,12			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



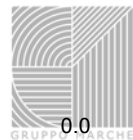
643	3.65e-03	9.05e-03	0.0	25,18,0	9.75e-05	6.50e-03	8.69e-03	18,25,24	0.0	0	0.98	0.03	0.97
	9.52e-03	6.46e-03	0.0	24,24,0	7.97e-05	0.02	0.02	18,24,24			1.00	0.07	0.93
646	0.01	0.03	0.0	25,18,0	9.75e-05	0.01	0.02	18,25,24	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	24,24,0	7.97e-05	0.04	0.02	18,24,24			1.00	0.07	0.93
650	0.02	0.04	0.0	25,18,0	9.76e-05	0.02	0.02	38,25,24	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	24,24,0	8.97e-05	0.04	5.87e-03	38,24,24			1.00	0.07	0.93
654	0.02	0.05	0.0	25,18,0	1.12e-04	0.02	0.03	38,25,24	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	24,24,0	1.05e-04	0.03	5.01e-03	38,24,24			1.00	0.07	0.93
658	0.02	0.07	0.0	25,18,0	1.12e-04	0.02	0.03	38,25,18	0.0	0	0.98	0.03	0.97
	9.98e-03	5.96e-03	0.0	18,18,0	1.05e-04	0.02	5.93e-03	38,18,13			1.00	0.07	0.93
660	0.02	0.07	0.0	25,18,0	5.89e-05	0.02	0.03	38,25,18	0.0	0	0.98	0.03	0.97
	0.01	6.24e-03	0.0	24,13,0	5.08e-05	0.03	5.93e-03	38,24,13			1.00	0.07	0.93
665	1.58e-05	3.67e-03	0.0	45,28,0	6.31e-05	9.38e-04	1.90e-03	24,24,2	0.0	0	0.98	0.03	0.97
	0.01	6.24e-03	0.0	24,13,0	3.95e-05	0.03	6.71e-03	24,24,13			1.00	0.07	0.93
669	0.0	0.04	0.0	0,2,0	6.31e-05	4.95e-03	0.02	24,12,8	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	13,13,0	3.95e-05	0.04	9.35e-03	24,13,13			1.00	0.07	0.93
687	0.0	0.05	0.0	0,2,0	4.92e-05	4.95e-03	0.02	18,12,2	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	13,13,0	3.91e-05	0.04	0.02	18,13,13			1.00	0.07	0.93
689	0.0	0.05	0.0	0,2,0	1.10e-05	4.35e-03	0.02	18,24,2	0.0	0	0.0	0.0	0.0
	7.76e-03	5.82e-03	0.0	13,13,0	1.25e-05	0.02	0.02	11,13,13			1.00	0.07	0.93
691	7.40e-04	0.01	0.0	13,8,0	1.44e-04	1.87e-03	5.47e-03	12,12,8	0.0	0	0.98	0.03	0.97
	3.56e-05	8.93e-04	0.0	14,44,0	8.84e-05	4.95e-03	5.11e-03	12,12,12			1.00	0.07	0.93
728	7.40e-04	0.01	0.0	13,8,0	1.44e-04	1.87e-03	5.47e-03	12,12,8	0.0	0	0.98	0.03	0.97
	3.56e-05	8.93e-04	0.0	14,44,0	8.84e-05	4.95e-03	5.11e-03	12,12,12			1.00	0.07	0.93
1001	3.65e-03	0.01	0.0	25,18,0	5.96e-05	6.50e-03	8.69e-03	38,25,24	0.0	0	0.98	0.03	0.97
	9.83e-03	6.95e-03	0.0	24,24,0	5.21e-05	0.02	0.01	38,24,24			1.00	0.07	0.93
1004	0.01	0.03	0.0	25,18,0	7.12e-05	0.01	0.02	38,25,24	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	24,24,0	6.34e-05	0.04	0.01	38,24,24			1.00	0.07	0.93
1008	0.02	0.04	0.0	25,18,0	9.76e-05	0.02	0.02	38,25,18	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	24,24,0	8.97e-05	0.04	6.89e-03	38,24,24			1.00	0.07	0.93
1012	0.02	0.06	0.0	25,18,0	1.12e-04	0.02	0.03	38,25,18	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	24,24,0	1.05e-04	0.03	5.82e-03	38,24,24			1.00	0.07	0.93
1016	0.02	0.09	0.0	25,18,0	1.12e-04	0.02	0.04	38,25,2	0.0	0	0.98	0.03	0.97
	7.24e-03	7.82e-03	0.0	8,8,0	1.05e-04	0.02	4.88e-03	38,8,12			1.00	0.07	0.93
1018	0.02	0.09	0.0	25,18,0	9.15e-05	0.02	0.04	38,25,2	0.0	0	0.98	0.03	0.97
	5.20e-03	4.77e-03	0.0	8,12,0	8.07e-05	0.01	4.88e-03	38,12,12			1.00	0.07	0.93
1025	0.0	0.06	0.0	0,2,0	1.92e-05	6.39e-03	0.03	2,8,2	0.0	0	0.0	0.0	0.0
	4.28e-03	3.34e-03	0.0	13,13,0	1.80e-05	0.02	0.02	18,18,18			1.00	0.07	0.93
1043	0.0	0.06	0.0	0,2,0	1.92e-05	8.54e-03	0.03	2,2,2	0.0	0	0.0	0.0	0.0
	4.28e-03	3.34e-03	0.0	13,13,0	1.80e-05	0.02	0.02	18,18,18			1.00	0.07	0.93
1045	0.0	0.05	0.0	0,2,0	1.68e-05	8.54e-03	0.03	18,2,2	0.0	0	0.0	0.0	0.0
	3.54e-03	3.18e-03	0.0	13,11,0	8.20e-06	8.90e-03	8.04e-03	13,13,18			1.00	0.07	0.93
1047	1.66e-03	0.02	0.0	13,8,0	8.04e-05	9.71e-04	8.39e-03	12,12,8	0.0	0	0.98	0.03	0.97
	1.60e-04	3.27e-04	0.0	8,43,0	5.35e-05	7.87e-04	8.13e-04	12,13,13			1.00	0.07	0.93
1100	1.66e-03	0.02	0.0	13,8,0	8.04e-05	9.71e-04	8.39e-03	12,12,8	0.0	0	0.98	0.03	0.97
	1.60e-04	3.27e-04	0.0	8,43,0	5.35e-05	7.87e-04	8.13e-04	12,13,13			1.00	0.07	0.93
1422	3.18e-03	0.01	0.0	25,18,0	7.53e-05	5.00e-03	8.32e-03	18,18,18	0.0	0	0.98	0.03	0.97
	9.83e-03	6.95e-03	0.0	24,24,0	5.68e-05	0.02	0.01	18,24,24			1.00	0.07	0.93
1612	8.63e-03	0.09	0.0	10,2,0	4.35e-04	0.07	0.11	2,2,2	0.0	0	0.98	0.03	0.97
	3.09e-03	2.40e-03	0.0	13,13,0	8.09e-05	0.02	0.02	18,2,2			1.00	0.07	0.93
1618	1.66e-03	0.03	0.0	13,8,0	1.31e-04	8.98e-03	0.02	11,12,12	0.0	0	0.98	0.03	0.97
	2.47e-04	3.25e-04	0.0	26,38,0	7.94e-05	1.79e-03	1.80e-03	11,13,14			1.00	0.07	0.93
1621	1.66e-03	0.03	0.0	13,8,0	1.31e-04	8.98e-03	0.02	11,12,12	0.0	0	0.98	0.03	0.97
	2.47e-04	3.25e-04	0.0	26,38,0	7.94e-05	1.79e-03	1.80e-03	11,13,14			1.00	0.07	0.93
1697	9.76e-03	0.03	0.0	10,8,0	7.53e-05	0.02	0.02	18,25,8	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	24,24,0	5.94e-05	0.04	0.01	38,24,24			1.00	0.07	0.93
1698	0.02	0.05	0.0	10,8,0	7.42e-05	0.02	0.03	38,25,8	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	24,24,0	5.94e-05	0.04	6.89e-03	38,24,24			1.00	0.07	0.93
1699	0.02	0.06	0.0	14,8,0	1.04e-04	0.03	0.04	38,25,8	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	24,24,0	9.74e-05	0.03	5.82e-03	38,24,24			1.00	0.07	0.93
1700	0.01	0.14	0.0	40,2,0	1.36e-03	0.11	0.19	2,2,2	0.0	0	0.98	0.03	0.97
	5.71e-03	9.57e-03	0.0	18,18,0	2.12e-04	0.02	0.02	2,2,2			1.00	0.07	0.93
1701	0.02	0.10	0.0	14,8,0	1.68e-04	0.03	0.06	38,25,8	0.0	0	0.98	0.03	0.97
	0.01	7.82e-03	0.0	18,8,0	1.48e-04	0.02	4.84e-03	38,8,12			1.00	0.07	0.93
1702	0.01	0.10	0.0	13,8,0	1.68e-04	0.02	0.06	38,13,8	0.0	0	0.98	0.03	0.97
	5.37e-03	4.77e-03	0.0	8,12,0	1.48e-04	0.01	4.84e-03	38,12,12			1.00	0.07	0.93
1703	0.01	0.14	0.0	40,2,0	1.36e-03	0.11	0.19	2,2,2	0.0	0	0.98	0.03	0.97
	5.71e-03	9.57e-03	0.0	18,18,0	2.12e-04	0.02	0.02	2,18,18			1.00	0.07	0.93
1945	1.12e-03	0.01	0.0	26,2,0	7.53e-05	5.00e-03	8.32e-03	18,18,18	0.0	0	0.98	0.03	0.97
	8.43e-03	2.99e-03	0.0	2,25,0	5.68e-05	0.02	5.73e-03	18,2,18			1.00	0.07	0.93
1950	0.02	0.03	0.0	20,8,0	7.53e-05	0.02	0.03	18,18,18	0.0	0	0.98	0.03	0.97
	0.01	3.37e-03	0.0	18,24,0	5.94e-05	0.02	6.77e-03	38,18,2			1.00	0.07	0.93
1958	0.03	0.05	0.0	18,8,0	7.42e-05	0.04	0.04	38,18,18	0.0	0	0.98	0.03	0.97
	0.01	3.37e-03	0.0	18,24,0	5.94e-05	0.02	6.77e-03	38,18,2			1.00	0.07	0.93
1966	0.03	0.06	0.0	18,8,0	1.24e-04	0.04	0.04	38,18,18	0.0	0	0.98	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1974	0.02	1.91e-03	0.0	18,18,0	9.18e-05	0.02	2.46e-03	38,18,18			1.00	0.07	0.93
	0.03	0.10	0.0	18,8,0	7.19e-04	0.04	0.06	2,18,8	0.0	0	0.98	0.03	0.97
	0.02	2.90e-03	0.0	18,11,0	6.73e-04	0.03	3.30e-03	2,18,24			1.00	0.07	0.93
1980	0.01	0.10	0.0	13,8,0	1.47e-03	0.02	0.06	2,13,8	0.0	0	0.98	0.03	0.97
	0.03	2.90e-03	0.0	18,11,0	1.44e-03	0.04	8.93e-03	2,18,24			1.00	0.07	0.93
1989	0.04	0.07	0.0	2,2,0	1.47e-03	0.04	0.04	2,18,18	0.0	0	0.98	0.03	0.97
	0.03	0.0	0.0	18,0,0	1.44e-03	0.04	8.93e-03	2,18,24			1.00	0.07	0.93
1995	0.04	0.04	0.0	2,2,0	6.02e-04	0.06	0.04	2,2,2	0.0	0	0.98	0.03	0.97
	0.02	0.0	0.0	2,0,0	5.30e-04	0.03	6.24e-03	2,2,8			1.00	0.07	0.93
2005	0.04	0.14	0.0	2,2,0	1.36e-03	0.11	0.19	2,2,2	0.0	0	0.98	0.03	0.97
	0.02	9.57e-03	0.0	8,18,0	5.34e-04	0.04	0.03	2,18,18			1.00	0.07	0.93
2028	0.02	0.14	0.0	4,2,0	1.36e-03	0.11	0.19	2,2,2	0.0	0	0.98	0.03	0.97
	0.02	9.57e-03	0.0	8,18,0	5.34e-04	0.04	0.03	2,18,18			1.00	0.07	0.93
2034	0.03	0.09	0.0	2,2,0	4.35e-04	0.07	0.11	2,2,2	0.0	0	0.98	0.03	0.97
	0.02	4.91e-03	0.0	8,10,0	8.09e-05	0.03	0.02	18,8,2			1.00	0.07	0.93
2042	0.03	0.03	0.0	2,2,0	6.15e-05	0.04	0.03	18,2,18	0.0	0	0.98	0.03	0.97
	8.66e-03	2.33e-03	0.0	8,25,0	2.91e-05	0.02	9.15e-03	38,8,2			1.00	0.07	0.93
2050	9.01e-03	0.03	0.0	18,8,0	1.31e-04	0.01	0.02	11,20,12	0.0	0	0.98	0.03	0.97
	5.84e-03	2.33e-03	0.0	23,25,0	7.94e-05	0.01	9.15e-03	11,8,2			1.00	0.07	0.93
2124	0.0	0.03	0.0	0,8,0	1.31e-04	8.98e-03	0.02	11,12,12	0.0	0	0.0	0.0	0.0
	2.40e-03	1.28e-03	0.0	24,24,0	7.94e-05	6.08e-03	5.67e-03	11,12,12			1.00	0.07	0.93
2720	1.12e-03	0.01	0.0	26,2,0	8.25e-05	0.01	0.02	38,24,18	0.0	0	0.98	0.03	0.97
	8.43e-03	1.28e-03	0.0	2,30,0	7.54e-05	0.02	2.45e-03	38,2,18			1.00	0.07	0.93
2723	0.02	0.03	0.0	20,2,0	8.25e-05	0.02	0.03	38,18,18	0.0	0	0.98	0.03	0.97
	9.78e-03	1.28e-03	0.0	2,30,0	7.54e-05	0.02	6.77e-03	38,2,2			1.00	0.07	0.93
2727	0.03	0.04	0.0	18,2,0	4.16e-05	0.04	0.04	38,18,18	0.0	0	0.98	0.03	0.97
	0.01	1.02e-03	0.0	18,35,0	2.92e-05	0.02	6.77e-03	38,2,2			1.00	0.07	0.93
2731	0.03	0.06	0.0	18,2,0	1.31e-04	0.04	0.04	38,18,18	0.0	0	0.98	0.03	0.97
	0.02	4.14e-04	0.0	18,35,0	1.15e-04	0.02	5.57e-03	38,18,2			1.00	0.07	0.93
2735	0.03	0.08	0.0	18,2,0	8.07e-04	0.04	0.05	2,18,18	0.0	0	0.98	0.03	0.97
	0.02	2.95e-04	0.0	18,35,0	7.85e-04	0.03	3.52e-03	2,18,2			1.00	0.07	0.93
2737	0.01	0.09	0.0	20,2,0	2.26e-03	0.02	0.05	2,18,18	0.0	0	0.98	0.03	0.97
	0.03	2.95e-04	0.0	18,35,0	2.22e-03	0.04	8.93e-03	2,18,24			1.00	0.07	0.93
2742	0.04	0.09	0.0	2,2,0	2.26e-03	0.04	0.05	2,18,2	0.0	0	0.98	0.03	0.97
	0.03	0.01	0.0	18,2,0	2.22e-03	0.04	8.93e-03	2,18,24			1.00	0.07	0.93
2744	0.04	0.04	0.0	2,2,0	6.51e-04	0.06	0.04	2,2,2	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	2,2,0	6.44e-04	0.03	0.02	2,2,8			1.00	0.07	0.93
2750	0.04	0.05	0.0	2,2,0	6.58e-04	0.06	0.07	2,2,2	0.0	0	0.98	0.03	0.97
	0.02	0.03	0.0	8,8,0	6.44e-04	0.06	0.03	2,8,18			1.00	0.07	0.93
2769	0.02	0.05	0.0	4,2,0	6.58e-04	0.04	0.07	2,2,2	0.0	0	0.98	0.03	0.97
	0.02	0.03	0.0	8,8,0	5.34e-04	0.06	0.03	2,8,18			1.00	0.07	0.93
2771	0.03	0.05	0.0	2,2,0	1.23e-04	0.04	0.06	2,2,2	0.0	0	0.98	0.03	0.97
	0.02	0.02	0.0	8,8,0	3.36e-05	0.05	0.01	38,8,8			1.00	0.07	0.93
2774	0.03	0.03	0.0	2,2,0	9.77e-05	0.04	0.03	2,2,18	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	25,8,0	9.53e-05	0.02	0.01	2,25,8			1.00	0.07	0.93
2777	9.01e-03	0.02	0.0	18,2,0	1.63e-04	0.01	0.01	2,20,18	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	25,8,0	1.61e-04	0.02	9.15e-03	2,25,2			1.00	0.07	0.93
2804	3.02e-03	0.01	0.0	26,2,0	8.25e-05	0.02	0.02	38,24,24	0.0	0	0.98	0.03	0.97
	7.09e-03	1.26e-03	0.0	18,36,0	7.54e-05	0.01	5.08e-03	38,18,24			1.00	0.07	0.93
2885	0.0	0.02	0.0	0,2,0	1.63e-04	6.48e-03	0.01	2,12,8	0.0	0	0.0	0.0	0.0
	5.96e-03	0.01	0.0	25,2,0	1.61e-04	0.01	7.06e-03	2,25,8			1.00	0.07	0.93
2888	3.02e-03	0.02	0.0	26,2,0	4.05e-05	0.02	0.02	38,24,24	0.0	0	0.98	0.03	0.97
	9.95e-03	1.02e-03	0.0	18,35,0	2.92e-05	0.02	5.57e-03	38,18,2			1.00	0.07	0.93
2892	0.0	0.03	0.0	0,2,0	1.31e-04	0.02	0.03	38,2,2	0.0	0	0.0	0.0	0.0
	0.01	4.14e-04	0.0	2,35,0	1.15e-04	0.02	5.57e-03	38,18,2			1.00	0.07	0.93
2896	0.0	0.04	0.0	0,2,0	8.07e-04	0.02	0.03	2,2,2	0.0	0	0.0	0.0	0.0
	0.01	2.95e-04	0.0	18,35,0	7.85e-04	0.02	3.52e-03	2,18,2			1.00	0.07	0.93
3000	0.0	0.02	0.0	0,2,0	1.63e-04	1.05e-03	6.70e-03	2,18,2	0.0	0	0.0	0.0	0.0
	5.96e-03	0.01	0.0	25,2,0	1.61e-04	0.01	7.06e-03	2,25,8			1.00	0.07	0.93
3090	0.0	0.09	0.0	0,2,0	2.26e-03	0.01	0.05	2,2,2	0.0	0	0.0	0.0	0.0
	0.02	2.95e-04	0.0	2,35,0	2.22e-03	0.03	3.10e-03	2,2,24			1.00	0.07	0.93
3095	0.0	0.09	0.0	0,2,0	2.26e-03	0.01	0.05	2,8,2	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	2,2,0	2.22e-03	0.03	7.31e-03	2,2,2			1.00	0.07	0.93
3097	1.52e-03	0.04	0.0	10,2,0	6.51e-04	0.01	0.03	2,2,2	0.0	0	0.98	0.03	0.97
	3.16e-03	0.02	0.0	14,2,0	6.44e-04	0.02	0.02	2,8,8			1.00	0.07	0.93
3103	1.52e-03	0.01	0.0	10,2,0	6.54e-04	7.70e-03	0.01	2,8,8	0.0	0	0.98	0.03	0.97
	0.02	0.03	0.0	8,8,0	6.44e-04	0.06	0.02	2,8,8			1.00	0.07	0.93
3122	0.0	0.01	0.0	0,18,0	6.54e-04	7.70e-03	0.01	2,8,8	0.0	0	0.0	0.0	0.0
	0.02	0.03	0.0	8,8,0	6.42e-04	0.06	0.01	2,8,8			1.00	0.07	0.93
3124	2.08e-03	0.01	0.0	25,18,0	2.43e-05	5.59e-03	0.01	28,2,2	0.0	0	0.98	0.03	0.97
	0.02	0.02	0.0	8,8,0	2.17e-05	0.05	0.01	28,8,8			1.00	0.07	0.93
3128	2.08e-03	8.26e-03	0.0	25,18,0	9.77e-05	4.21e-03	6.71e-03	2,18,18	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	25,8,0	9.53e-05	0.02	0.01	2,25,8			1.00	0.07	0.93
3132	2.03e-03	0.02	0.0	25,2,0	1.63e-04	3.31e-03	6.70e-03	2,18,2	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	25,8,0	1.61e-04	0.02	7.06e-03	2,25,8			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



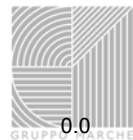
3155	0.0	7.69e-03	0.0	0,2,0	3.71e-04	7.72e-03	0.01	2,8,8	0.0	0	0.0	0.0	0.0
	0.0	0.02	0.0	0,2,0	3.53e-04	2.85e-03	7.31e-03	2,25,2			0.0	0.0	0.0
3161	0.0	0.01	0.0	0,2,0	6.54e-04	7.70e-03	0.01	2,8,8	0.0	0	0.0	0.0	0.0
	6.23e-03	0.01	0.0	25,2,0	6.42e-04	0.01	8.57e-03	2,25,8			1.00	0.07	0.93
3180	0.0	0.01	0.0	0,2,0	6.54e-04	7.70e-03	0.01	2,8,8	0.0	0	0.0	0.0	0.0
	6.84e-03	7.26e-03	0.0	25,8,0	6.42e-04	0.02	8.57e-03	2,25,8			1.00	0.07	0.93
3182	8.49e-04	9.77e-03	0.0	25,2,0	1.38e-05	3.48e-03	7.00e-03	28,2,2	0.0	0	0.98	0.03	0.97
	6.84e-03	5.46e-03	0.0	25,8,0	1.31e-05	0.02	5.71e-03	28,25,25			1.00	0.07	0.93
3186	8.49e-04	8.26e-03	0.0	25,18,0	6.76e-05	3.07e-03	5.64e-03	2,24,24	0.0	0	0.98	0.03	0.97
	4.22e-03	4.40e-03	0.0	25,8,0	6.67e-05	0.01	4.96e-03	2,25,25			1.00	0.07	0.93
3190	7.27e-04	0.01	0.0	25,2,0	6.76e-05	2.53e-03	5.04e-03	2,25,24	0.0	0	0.98	0.03	0.97
	4.22e-03	4.40e-03	0.0	25,8,0	6.67e-05	0.01	2.72e-03	2,25,24			1.00	0.07	0.93
3222	0.0	0.01	0.0	0,2,0	6.31e-05	6.18e-04	4.59e-03	2,23,18	0.0	0	0.0	0.0	0.0
	8.88e-04	2.02e-03	0.0	25,8,0	6.08e-05	2.58e-03	2.40e-03	2,25,25			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.04	0.14	0.0		2.26e-03	0.11	0.19		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
64	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	-380.3	24	0.02	219.6	13	0.06	-7700.9	-1.728e+05	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
240	0.0	0.02	0.0	0,2,0	6.40e-06	1.28e-03	7.01e-03	24,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.25e-03	0.0	0,2,0	6.20e-06	2.88e-04	4.63e-04	24,24,2			0.0	0.0	0.0
241	0.0	0.02	0.0	0,2,0	1.26e-05	1.81e-03	8.98e-03	18,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.25e-03	0.0	0,2,0	1.15e-05	8.03e-04	1.04e-03	24,38,2			0.0	0.0	0.0
242	0.0	0.04	0.0	0,2,0	4.15e-05	9.51e-03	0.02	18,2,2	0.0	0	0.0	0.0	0.0
	3.00e-04	1.20e-03	0.0	18,2,0	3.26e-05	5.09e-03	4.90e-03	18,2,2			1.00	0.07	0.93
243	0.0	0.05	0.0	0,2,0	4.15e-05	0.01	0.03	18,2,2	0.0	0	0.0	0.0	0.0
	1.85e-03	5.32e-04	0.0	18,8,0	3.26e-05	7.80e-03	6.49e-03	18,2,2			1.00	0.07	0.93
244	0.0	0.05	0.0	0,2,0	1.57e-05	0.01	0.03	8,2,2	0.0	0	0.0	0.0	0.0
	1.85e-03	5.32e-04	0.0	18,8,0	6.33e-06	7.80e-03	6.49e-03	12,2,2			1.00	0.07	0.93
245	0.0	0.02	0.0	0,2,0	7.81e-06	1.69e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	6.50e-05	2.72e-04	0.0	13,18,0	7.13e-06	1.85e-04	2.09e-04	24,12,28			1.00	0.07	0.93
246	0.0	0.02	0.0	0,2,0	7.81e-06	1.69e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	6.50e-05	2.72e-04	0.0	13,18,0	7.13e-06	1.85e-04	2.09e-04	24,12,28			1.00	0.07	0.93
422	0.0	0.02	0.0	0,2,0	7.81e-06	1.69e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	6.50e-05	2.78e-04	0.0	13,2,0	7.13e-06	2.40e-04	2.98e-04	24,8,2			1.00	0.07	0.93
423	0.0	0.02	0.0	0,2,0	7.81e-06	1.69e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	6.50e-05	2.78e-04	0.0	13,2,0	7.13e-06	2.40e-04	2.98e-04	24,8,2			1.00	0.07	0.93
708	0.0	0.02	0.0	0,2,0	7.35e-06	1.28e-03	7.01e-03	11,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.78e-03	0.0	0,2,0	7.25e-06	1.27e-03	1.07e-03	11,38,2			0.0	0.0	0.0
709	0.0	0.02	0.0	0,2,0	1.78e-05	1.81e-03	8.98e-03	18,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.78e-03	0.0	0,2,0	1.70e-05	1.27e-03	1.20e-03	18,2,2			0.0	0.0	0.0
710	0.0	0.04	0.0	0,2,0	7.76e-05	9.51e-03	0.02	18,2,2	0.0	0	0.0	0.0	0.0
	7.24e-04	2.50e-03	0.0	18,2,0	7.55e-05	5.09e-03	4.90e-03	18,2,2			1.00	0.07	0.93
711	0.0	0.05	0.0	0,2,0	7.76e-05	0.01	0.03	18,2,2	0.0	0	0.0	0.0	0.0
	1.85e-03	1.09e-03	0.0	18,8,0	7.55e-05	7.80e-03	6.49e-03	18,2,2			1.00	0.07	0.93
712	0.0	0.05	0.0	0,2,0	1.86e-05	0.01	0.03	8,2,2	0.0	0	0.0	0.0	0.0
	1.85e-03	5.32e-04	0.0	18,8,0	1.64e-05	7.80e-03	6.49e-03	8,2,2			1.00	0.07	0.93
1064	0.0	0.02	0.0	0,2,0	9.45e-06	7.91e-04	6.45e-03	11,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.78e-03	0.0	0,2,0	9.33e-06	1.27e-03	1.07e-03	11,38,2			0.0	0.0	0.0
1065	0.0	0.02	0.0	0,2,0	2.81e-05	8.16e-04	7.84e-03	18,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.78e-03	0.0	0,2,0	2.78e-05	1.27e-03	1.20e-03	18,2,2			0.0	0.0	0.0
1066	0.0	0.03	0.0	0,2,0	1.24e-04	2.10e-03	0.01	18,2,2	0.0	0	0.0	0.0	0.0
	1.17e-03	2.50e-03	0.0	10,2,0	1.23e-04	2.59e-03	2.62e-03	18,40,2			1.00	0.07	0.93
1067	0.0	0.04	0.0	0,2,0	1.24e-04	2.10e-03	0.02	18,2,2	0.0	0	0.0	0.0	0.0
	1.42e-03	1.19e-03	0.0	2,18,0	1.23e-04	2.90e-03	2.62e-03	18,2,2			1.00	0.07	0.93
1068	0.0	0.04	0.0	0,2,0	2.27e-05	2.05e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	1.42e-03	7.31e-04	0.0	2,24,0	2.11e-05	2.90e-03	1.59e-03	8,2,2			1.00	0.07	0.93
1069	0.0	0.02	0.0	0,2,0	6.01e-06	9.64e-04	9.64e-03	24,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.29e-03	0.0	0,8,0	5.64e-06	2.40e-04	4.75e-04	24,8,40			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



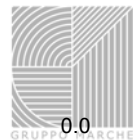
1070	0.0	0.02	0.0	0,2,0	6.01e-06	9.64e-04	9.64e-03	24,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.29e-03	0.0	0,8,0	5.64e-06	2.40e-04	4.75e-04	24,8,40			0.0	0.0	0.0
1461	0.0	0.01	0.0	0,2,0	9.73e-06	3.08e-04	5.06e-03	11,2,2	0.0	0	0.0	0.0	0.0
	7.61e-04	2.00e-03	0.0	40,18,0	9.71e-06	1.34e-03	7.43e-04	11,40,18			1.00	0.07	0.93
1462	0.0	0.02	0.0	0,2,0	4.52e-05	3.08e-04	6.20e-03	18,2,2	0.0	0	0.0	0.0	0.0
	9.37e-04	2.00e-03	0.0	8,18,0	4.46e-05	1.48e-03	8.69e-04	18,8,18			1.00	0.07	0.93
1463	0.0	0.03	0.0	0,2,0	1.77e-04	2.14e-03	0.01	2,2,2	0.0	0	0.0	0.0	0.0
	2.05e-03	1.51e-03	0.0	40,18,0	1.75e-04	3.55e-03	9.11e-04	18,40,38			1.00	0.07	0.93
1464	0.0	0.03	0.0	0,2,0	1.77e-04	2.14e-03	0.01	2,2,2	0.0	0	0.0	0.0	0.0
	4.35e-03	1.19e-03	0.0	8,18,0	1.75e-04	7.51e-03	9.11e-04	18,38,38			1.00	0.07	0.93
1465	0.0	0.03	0.0	0,2,0	2.27e-05	1.60e-03	0.01	8,2,2	0.0	0	0.0	0.0	0.0
	4.35e-03	1.37e-03	0.0	8,23,0	2.11e-05	7.51e-03	5.17e-04	8,38,24			1.00	0.07	0.93
1466	0.0	3.85e-03	0.0	0,2,0	5.57e-05	4.36e-04	1.80e-03	8,38,38	0.0	0	0.0	0.0	0.0
	3.14e-03	1.80e-03	0.0	8,18,0	5.49e-05	5.18e-03	7.44e-04	8,8,18			1.00	0.07	0.93
1467	0.0	0.02	0.0	0,2,0	5.57e-05	3.30e-04	8.10e-03	8,38,2	0.0	0	0.0	0.0	0.0
	2.26e-04	1.93e-03	0.0	45,18,0	5.49e-05	9.98e-04	7.44e-04	8,43,18			1.00	0.07	0.93
1468	0.0	0.02	0.0	0,2,0	5.50e-06	1.55e-04	8.10e-03	14,38,2	0.0	0	0.0	0.0	0.0
	2.26e-04	1.93e-03	0.0	45,18,0	5.29e-06	9.98e-04	6.41e-04	14,43,18			1.00	0.07	0.93
2072	0.0	9.22e-03	0.0	0,2,0	1.60e-05	5.48e-04	3.65e-03	12,2,2	0.0	0	0.0	0.0	0.0
	2.99e-03	5.01e-04	0.0	38,23,0	1.56e-05	3.82e-03	4.86e-04	12,38,18			1.00	0.07	0.93
2073	0.0	0.01	0.0	0,2,0	6.60e-05	5.48e-04	4.48e-03	18,2,2	0.0	0	0.0	0.0	0.0
	3.29e-03	8.15e-04	0.0	38,23,0	6.51e-05	4.66e-03	4.86e-04	18,38,18			1.00	0.07	0.93
2074	0.0	0.02	0.0	0,2,0	2.26e-04	2.37e-03	9.80e-03	2,2,2	0.0	0	0.0	0.0	0.0
	3.29e-03	9.66e-04	0.0	38,23,0	2.24e-04	4.66e-03	8.62e-04	2,38,24			1.00	0.07	0.93
2075	0.0	0.02	0.0	0,2,0	2.26e-04	2.37e-03	0.01	2,2,2	0.0	0	0.0	0.0	0.0
	4.35e-03	1.08e-03	0.0	8,18,0	2.24e-04	7.51e-03	8.62e-04	2,38,24			1.00	0.07	0.93
2076	0.0	0.02	0.0	0,2,0	8.35e-05	2.27e-03	0.01	2,2,2	0.0	0	0.0	0.0	0.0
	4.35e-03	1.37e-03	0.0	8,23,0	8.26e-05	7.51e-03	6.83e-04	2,38,11			1.00	0.07	0.93
2077	0.0	4.52e-03	0.0	0,2,0	6.81e-05	4.36e-04	1.91e-03	8,38,2	0.0	0	0.0	0.0	0.0
	3.14e-03	1.80e-03	0.0	8,18,0	6.76e-05	5.18e-03	7.44e-04	8,8,18			1.00	0.07	0.93
2078	0.0	0.01	0.0	0,2,0	5.57e-05	3.40e-04	5.07e-03	8,18,2	0.0	0	0.0	0.0	0.0
	2.48e-03	1.93e-03	0.0	38,18,0	5.49e-05	3.40e-03	7.44e-04	8,38,18			1.00	0.07	0.93
2079	0.0	0.01	0.0	0,2,0	5.42e-06	3.40e-04	5.07e-03	23,18,2	0.0	0	0.0	0.0	0.0
	2.48e-03	1.93e-03	0.0	38,18,0	5.31e-06	3.40e-03	6.41e-04	23,38,18			1.00	0.07	0.93
2833	0.0	4.61e-03	0.0	0,2,0	1.60e-05	5.48e-04	2.19e-03	12,2,2	0.0	0	0.0	0.0	0.0
	2.99e-03	1.47e-04	0.0	38,13,0	1.56e-05	3.82e-03	4.28e-04	12,38,18			1.00	0.07	0.93
2834	0.0	6.05e-03	0.0	0,2,0	6.60e-05	5.48e-04	2.53e-03	18,2,2	0.0	0	0.0	0.0	0.0
	3.29e-03	1.47e-04	0.0	38,13,0	6.51e-05	4.66e-03	4.28e-04	18,38,18			1.00	0.07	0.93
2835	0.0	0.01	0.0	0,2,0	2.26e-04	2.37e-03	6.91e-03	2,2,2	0.0	0	0.0	0.0	0.0
	3.29e-03	5.56e-04	0.0	38,24,0	2.24e-04	4.66e-03	8.62e-04	2,38,24			1.00	0.07	0.93
2836	0.0	0.01	0.0	0,2,0	2.26e-04	2.37e-03	7.54e-03	2,2,2	0.0	0	0.0	0.0	0.0
	7.76e-04	1.08e-03	0.0	45,18,0	2.24e-04	1.09e-03	8.62e-04	2,45,24			1.00	0.07	0.93
2837	0.0	0.01	0.0	0,2,0	8.35e-05	2.27e-03	7.54e-03	2,2,2	0.0	0	0.0	0.0	0.0
	1.09e-03	1.08e-03	0.0	38,18,0	8.26e-05	1.91e-03	6.83e-04	2,38,11			1.00	0.07	0.93
2838	0.0	4.52e-03	0.0	0,2,0	6.81e-05	2.98e-04	1.91e-03	8,18,2	0.0	0	0.0	0.0	0.0
	2.14e-03	6.40e-04	0.0	38,24,0	6.76e-05	3.29e-03	3.11e-04	8,38,18			1.00	0.07	0.93
2839	0.0	6.38e-03	0.0	0,2,0	4.39e-05	3.40e-04	2.62e-03	8,18,2	0.0	0	0.0	0.0	0.0
	2.48e-03	6.13e-04	0.0	38,25,0	4.35e-05	3.40e-03	2.25e-04	8,38,23			1.00	0.07	0.93
2840	0.0	6.38e-03	0.0	0,2,0	5.42e-06	3.40e-04	2.62e-03	23,18,2	0.0	0	0.0	0.0	0.0
	2.48e-03	5.44e-04	0.0	38,25,0	5.31e-06	3.40e-03	1.98e-04	23,38,25			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	4.35e-03	0.05	0.0		2.26e-04	0.01	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
65	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.25	-182.7	28	0.47	653.2	2	0.02	-342.3	-9418.4	28

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
386	0.0	0.01	0.0	0,38,0	1.17e-04	6.50e-05	4.21e-03	28,24,38	0.0	0	0.0	0.0	0.0
	0.0	1.58e-03	0.0	0,44,0	1.16e-04	1.57e-04	5.38e-04	28,8,38			0.0	0.0	0.0
407	0.0	0.01	0.0	0,38,0	1.17e-04	6.50e-05	4.21e-03	28,24,38	0.0	0	0.0	0.0	0.0
	0.0	1.58e-03	0.0	0,44,0	1.16e-04	1.57e-04	5.38e-04	28,8,38			0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



805	0.0	0.02	0.0	0,2,0	1.17e-04	6.50e-05	6.05e-03	28,24,2	0.0	0	0.0	0.0	0.0
	2.19e-04	1.58e-03	0.0	35,44,0	1.16e-04	2.68e-04	5.38e-04	28,36,38			1.00	0.07	0.93
826	0.0	0.02	0.0	0,2,0	1.17e-04	6.50e-05	6.05e-03	28,24,2	0.0	0	0.0	0.0	0.0
	2.19e-04	1.58e-03	0.0	35,44,0	1.16e-04	2.68e-04	5.38e-04	28,36,38			1.00	0.07	0.93
1205	0.0	0.02	0.0	0,2,0	9.34e-05	6.20e-05	9.01e-03	28,24,2	0.0	0	0.0	0.0	0.0
	2.19e-04	3.62e-04	0.0	35,44,0	9.23e-05	2.68e-04	1.67e-04	28,36,38			1.00	0.07	0.93
1226	0.0	0.02	0.0	0,2,0	9.34e-05	6.20e-05	9.01e-03	28,24,2	0.0	0	0.0	0.0	0.0
	2.19e-04	3.62e-04	0.0	35,44,0	9.23e-05	2.68e-04	1.67e-04	28,36,38			1.00	0.07	0.93
1659	0.0	0.03	0.0	0,2,0	9.78e-05	3.67e-04	0.01	38,8,2	0.0	0	0.0	0.0	0.0
	1.55e-04	2.74e-03	0.0	45,28,0	9.65e-05	4.44e-04	1.20e-03	38,2,2			1.00	0.07	0.93
1680	0.0	0.03	0.0	0,2,0	9.78e-05	3.67e-04	0.01	38,8,2	0.0	0	0.0	0.0	0.0
	1.55e-04	2.74e-03	0.0	45,28,0	9.65e-05	4.44e-04	1.20e-03	38,2,2			1.00	0.07	0.93
2237	0.0	2.75e-03	0.0	0,2,0	5.79e-04	5.37e-04	1.54e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	44,0,0	5.65e-04	0.02	7.69e-05	2,44,18			1.00	0.07	0.93
2267	0.0	4.17e-03	0.0	0,2,0	5.79e-04	5.37e-04	1.65e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	0.0	0.0	38,0,0	5.65e-04	0.03	3.83e-04	2,38,2			1.00	0.07	0.93
2273	0.0	9.14e-03	0.0	0,2,0	1.24e-03	2.46e-04	3.59e-03	2,8,2	0.0	0	0.0	0.0	0.0
	0.03	4.90e-04	0.0	38,35,0	1.22e-03	0.03	3.83e-04	2,38,2			1.00	0.07	0.93
2283	0.0	0.03	0.0	0,2,0	1.24e-03	1.09e-03	0.01	2,8,2	0.0	0	0.0	0.0	0.0
	0.01	2.74e-03	0.0	44,28,0	1.22e-03	0.02	1.20e-03	2,44,2			1.00	0.07	0.93
2314	0.0	0.03	0.0	0,2,0	9.78e-05	1.09e-03	0.01	38,8,2	0.0	0	0.0	0.0	0.0
	3.58e-03	2.74e-03	0.0	46,28,0	9.65e-05	4.54e-03	1.20e-03	38,46,2			1.00	0.07	0.93
2423	0.0	0.01	0.0	0,2,0	3.15e-05	1.09e-03	6.48e-03	2,8,2	0.0	0	0.0	0.0	0.0
	3.58e-03	1.51e-03	0.0	46,34,0	2.91e-05	4.54e-03	5.82e-04	2,46,12			1.00	0.07	0.93
2458	0.0	0.01	0.0	0,2,0	1.24e-03	1.09e-03	6.48e-03	2,8,2	0.0	0	0.0	0.0	0.0
	0.01	1.51e-03	0.0	44,34,0	1.22e-03	0.02	5.82e-04	2,44,12			1.00	0.07	0.93
2477	0.0	9.14e-03	0.0	0,2,0	1.24e-03	2.46e-04	3.59e-03	2,8,2	0.0	0	0.0	0.0	0.0
	0.03	4.90e-04	0.0	38,35,0	1.22e-03	0.03	3.83e-04	2,38,2			1.00	0.07	0.93
2490	0.0	4.17e-03	0.0	0,2,0	5.79e-04	5.37e-04	1.65e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.03	0.0	0.0	38,0,0	5.65e-04	0.03	3.83e-04	2,38,2			1.00	0.07	0.93
2529	0.0	2.75e-03	0.0	0,2,0	5.79e-04	5.37e-04	1.54e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.01	0.0	0.0	44,0,0	5.65e-04	0.02	7.69e-05	2,44,18			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.03	0.0		1.24e-03	0.03	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
66	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	586.8	44	0.18	-118.7	2	0.05	-6122.5	-1.986e+05	28

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
125	1.12e-03	8.05e-03	0.0	13,18,0	3.89e-04	0.01	0.01	12,13,12	0.0	0	0.98	0.03	0.97
	6.63e-03	5.09e-03	0.0	13,12,0	2.55e-04	0.02	0.02	12,13,12			1.00	0.07	0.93
179	3.67e-03	0.02	0.0	13,8,0	3.89e-04	0.01	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	7.86e-03	5.17e-03	0.0	12,13,0	2.55e-04	0.02	0.02	12,13,12			1.00	0.07	0.93
183	7.63e-03	0.02	0.0	13,8,0	2.75e-04	0.02	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	7.86e-03	5.17e-03	0.0	12,13,0	1.70e-04	0.02	0.01	12,12,13			1.00	0.07	0.93
187	9.80e-03	0.03	0.0	13,8,0	1.88e-04	0.02	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	6.92e-03	4.69e-03	0.0	12,13,0	1.09e-04	0.02	7.60e-03	12,12,13			1.00	0.07	0.93
191	9.80e-03	0.03	0.0	13,8,0	1.23e-04	0.02	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	12,13,0	6.39e-05	0.05	0.03	12,12,13			1.00	0.07	0.93
194	0.0	0.03	0.0	0,28,0	3.76e-05	0.01	0.02	12,13,12	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	12,13,0	4.50e-05	0.05	0.03	12,12,13			1.00	0.07	0.93
198	0.04	0.05	0.0	13,12,0	6.25e-04	0.05	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.03	0.02	0.0	13,11,0	1.23e-03	0.16	0.15	13,13,13			1.00	0.07	0.93
202	0.04	0.05	0.0	13,12,0	6.25e-04	0.05	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.03	0.02	0.0	13,11,0	1.23e-03	0.16	0.15	13,13,13			1.00	0.07	0.93
220	8.98e-04	0.03	0.0	13,2,0	2.33e-04	3.02e-03	0.01	12,13,8	0.0	0	0.98	0.03	0.97
	0.02	0.02	0.0	13,11,0	2.04e-04	0.05	0.04	12,13,13			1.00	0.07	0.93
222	5.07e-03	0.01	0.0	13,38,0	5.15e-04	5.04e-03	6.17e-03	13,13,12	0.0	0	0.98	0.03	0.97
	5.80e-04	1.45e-03	0.0	13,44,0	3.10e-04	2.72e-03	3.03e-03	13,24,24			1.00	0.07	0.93
224	5.07e-03	0.01	0.0	13,38,0	5.15e-04	5.04e-03	6.17e-03	13,13,12	0.0	0	0.98	0.03	0.97
	5.80e-04	1.45e-03	0.0	13,44,0	3.10e-04	2.72e-03	3.03e-03	13,24,24			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



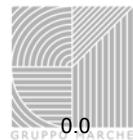
594	7.04e-03	0.01	0.0	13,12,0	3.89e-04	0.01	0.01	12,13,12	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	13,12,0	2.55e-04	0.03	0.02	12,13,12			1.00	0.07	0.93
647	0.02	0.03	0.0	13,12,0	3.89e-04	0.02	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.03	0.02	0.0	12,13,0	2.55e-04	0.06	0.02	12,12,12			1.00	0.07	0.93
651	0.04	0.05	0.0	13,12,0	2.75e-04	0.04	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.03	0.02	0.0	12,13,0	1.70e-04	0.06	0.01	12,12,13			1.00	0.07	0.93
655	0.05	0.06	0.0	13,12,0	1.88e-04	0.05	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.02	0.0	12,13,0	1.09e-04	0.05	8.72e-03	12,12,13			1.00	0.07	0.93
659	0.06	0.07	0.0	13,12,0	1.65e-04	0.06	0.05	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	12,13,0	7.12e-05	0.05	0.03	12,12,13			1.00	0.07	0.93
662	0.06	0.07	0.0	13,12,0	1.65e-04	0.06	0.05	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	12,13,0	7.12e-05	0.05	0.03	12,12,13			1.00	0.07	0.93
666	0.04	0.05	0.0	13,12,0	6.25e-04	0.05	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.03	0.02	0.0	13,11,0	1.23e-03	0.16	0.15	13,13,13			1.00	0.07	0.93
670	0.04	0.05	0.0	13,12,0	6.25e-04	0.05	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.03	0.02	0.0	13,11,0	1.23e-03	0.16	0.15	13,13,13			1.00	0.07	0.93
688	8.98e-04	0.03	0.0	13,2,0	2.33e-04	6.08e-03	0.01	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.02	0.0	13,11,0	2.04e-04	0.05	0.04	12,13,13			1.00	0.07	0.93
690	7.76e-03	0.02	0.0	13,8,0	5.15e-04	6.63e-03	8.61e-03	13,13,12	0.0	0	0.98	0.03	0.97
	5.80e-04	1.45e-03	0.0	13,44,0	3.10e-04	2.72e-03	3.03e-03	13,24,24			1.00	0.07	0.93
692	7.76e-03	0.02	0.0	13,8,0	5.15e-04	6.63e-03	8.61e-03	13,13,12	0.0	0	0.98	0.03	0.97
	5.80e-04	1.45e-03	0.0	13,44,0	3.10e-04	2.72e-03	3.03e-03	13,24,24			1.00	0.07	0.93
952	0.01	0.02	0.0	13,12,0	2.84e-04	0.01	0.01	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	14,12,0	1.91e-04	0.04	0.02	12,14,12			1.00	0.07	0.93
1005	0.04	0.04	0.0	13,12,0	2.84e-04	0.03	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	12,13,0	1.91e-04	0.10	0.02	12,14,12			1.00	0.07	0.93
1009	0.06	0.06	0.0	13,12,0	1.88e-04	0.05	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	12,13,0	1.13e-04	0.10	0.02	12,14,13			1.00	0.07	0.93
1013	0.07	0.07	0.0	13,12,0	1.35e-04	0.06	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	13,12,0	7.64e-05	0.10	0.02	12,13,12			1.00	0.07	0.93
1017	0.10	0.10	0.0	13,12,0	1.65e-04	0.08	0.05	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.02	0.0	13,12,0	7.12e-05	0.05	0.01	12,13,12			1.00	0.07	0.93
1020	0.10	0.10	0.0	13,12,0	1.65e-04	0.08	0.05	12,13,12	0.0	0	0.98	0.03	0.97
	4.08e-03	2.80e-03	0.0	24,24,0	7.12e-05	9.22e-03	4.16e-03	12,24,25			1.00	0.07	0.93
1022	0.0	0.03	0.0	0,2,0	2.90e-05	2.27e-03	9.62e-03	12,12,8	0.0	0	0.0	0.0	0.0
	0.01	7.49e-03	0.0	13,12,0	2.09e-05	0.02	9.66e-03	12,13,12			1.00	0.07	0.93
1026	0.0	0.03	0.0	0,2,0	3.34e-05	6.08e-03	0.01	13,13,12	0.0	0	0.0	0.0	0.0
	0.01	8.18e-03	0.0	13,12,0	2.10e-05	0.03	9.66e-03	13,13,12			1.00	0.07	0.93
1044	0.0	0.03	0.0	0,2,0	3.34e-05	6.08e-03	0.01	13,13,12	0.0	0	0.0	0.0	0.0
	0.01	8.18e-03	0.0	13,12,0	2.10e-05	0.03	7.08e-03	13,13,12			1.00	0.07	0.93
1046	7.76e-03	0.02	0.0	13,8,0	2.87e-04	6.63e-03	9.04e-03	12,13,12	0.0	0	0.98	0.03	0.97
	1.68e-03	1.39e-03	0.0	13,12,0	1.79e-04	4.76e-03	4.18e-03	12,13,12			1.00	0.07	0.93
1048	7.76e-03	0.02	0.0	13,8,0	2.87e-04	6.63e-03	9.04e-03	12,13,12	0.0	0	0.98	0.03	0.97
	1.68e-03	1.39e-03	0.0	13,12,0	1.79e-04	4.76e-03	4.18e-03	12,13,12			1.00	0.07	0.93
1445	7.68e-03	0.02	0.0	13,2,0	5.44e-04	0.01	0.02	12,14,12	0.0	0	0.98	0.03	0.97
	1.68e-03	1.39e-03	0.0	13,12,0	3.45e-04	0.02	0.02	12,13,12			1.00	0.07	0.93
1599	0.02	0.02	0.0	13,12,0	9.61e-05	0.01	0.01	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	14,12,0	7.81e-05	0.04	0.02	12,14,12			1.00	0.07	0.93
1602	0.04	0.05	0.0	13,12,0	9.61e-05	0.03	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	12,13,0	7.81e-05	0.10	0.02	12,14,12			1.00	0.07	0.93
1603	0.06	0.06	0.0	13,12,0	4.50e-05	0.05	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.05	0.03	0.0	13,12,0	2.94e-05	0.10	0.02	12,13,12			1.00	0.07	0.93
1604	0.07	0.07	0.0	13,12,0	4.00e-05	0.06	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.05	0.04	0.0	13,12,0	2.99e-05	0.12	0.02	44,13,12			1.00	0.07	0.93
1605	0.10	0.10	0.0	13,12,0	2.68e-04	0.08	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.05	0.04	0.0	13,12,0	1.95e-04	0.12	0.03	12,13,12			1.00	0.07	0.93
1606	0.10	0.10	0.0	13,12,0	2.68e-04	0.08	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	13,12,0	1.95e-04	0.09	0.03	12,13,12			1.00	0.07	0.93
1607	0.0	0.03	0.0	0,2,0	2.45e-05	4.05e-03	0.01	8,13,8	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	13,12,0	2.60e-05	0.07	0.02	12,13,12			1.00	0.07	0.93
1608	0.0	0.03	0.0	0,2,0	5.57e-05	8.62e-03	0.02	12,13,12	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	13,12,0	4.24e-05	0.07	0.02	12,13,12			1.00	0.07	0.93
1611	0.0	0.03	0.0	0,8,0	5.57e-05	8.62e-03	0.02	12,13,12	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	13,12,0	4.24e-05	0.07	0.01	12,13,12			1.00	0.07	0.93
1617	7.68e-03	0.02	0.0	13,2,0	5.44e-04	0.01	0.02	12,14,12	0.0	0	0.98	0.03	0.97
	1.68e-03	1.39e-03	0.0	13,12,0	3.45e-04	0.02	0.02	12,13,12			1.00	0.07	0.93
1889	0.02	0.02	0.0	13,12,0	4.71e-04	0.02	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.01	0.01	0.0	12,13,0	3.07e-04	0.03	0.02	12,12,13			1.00	0.07	0.93
1955	0.04	0.05	0.0	13,12,0	4.71e-04	0.04	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	13,12,0	3.07e-04	0.08	0.02	12,13,13			1.00	0.07	0.93
1963	0.06	0.06	0.0	13,12,0	1.75e-04	0.05	0.03	14,13,12	0.0	0	0.98	0.03	0.97
	0.05	0.03	0.0	13,12,0	9.76e-05	0.10	0.02	13,13,12			1.00	0.07	0.93
1971	0.07	0.07	0.0	13,12,0	6.41e-05	0.05	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.06	0.05	0.0	12,13,0	3.50e-05	0.15	0.02	14,12,13			1.00	0.07	0.93
1979	0.07	0.07	0.0	13,12,0	2.68e-04	0.06	0.04	12,13,12	0.0	0	0.98	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1986	0.12	0.08	0.0	12,13,0	1.95e-04	0.26	0.04	12,12,13			1.00	0.07	0.93
	0.07	0.07	0.0	13,12,0	4.12e-04	0.06	0.04	12,13,12	0.0	0	0.98	0.03	0.97
	0.12	0.08	0.0	12,13,0	2.92e-04	0.26	0.04	12,12,13			1.00	0.07	0.93
2000	6.90e-03	0.01	0.0	13,12,0	5.19e-04	0.01	0.01	12,13,12	0.0	0	0.98	0.03	0.97
	0.11	0.08	0.0	12,13,0	4.21e-04	0.24	0.04	12,12,13			1.00	0.07	0.93
2002	0.0	0.03	0.0	0,2,0	5.19e-04	4.55e-03	0.01	12,13,8	0.0	0	0.0	0.0	0.0
	0.13	0.09	0.0	12,13,0	4.21e-04	0.29	0.05	12,12,13			1.00	0.07	0.93
2010	0.0	0.03	0.0	0,2,0	2.42e-04	8.62e-03	0.02	12,13,12	0.0	0	0.0	0.0	0.0
	0.14	0.10	0.0	12,13,0	2.11e-04	0.31	0.05	12,12,13			1.00	0.07	0.93
2033	0.0	0.03	0.0	0,8,0	1.61e-04	8.62e-03	0.02	12,13,12	0.0	0	0.0	0.0	0.0
	0.14	0.10	0.0	12,13,0	1.23e-04	0.31	0.05	12,12,13			1.00	0.07	0.93
2041	5.99e-03	7.60e-03	0.0	13,12,0	3.67e-05	8.39e-03	7.23e-03	8,13,12	0.0	0	0.98	0.03	0.97
	0.08	0.05	0.0	12,13,0	7.30e-05	0.18	0.04	12,12,13			1.00	0.07	0.93
2049	5.99e-03	0.02	0.0	13,2,0	5.44e-04	0.01	0.02	12,14,12	0.0	0	0.98	0.03	0.97
	9.21e-03	5.76e-03	0.0	12,13,0	3.45e-04	0.02	0.02	12,12,12			1.00	0.07	0.93
2055	2.54e-03	0.02	0.0	13,2,0	5.44e-04	0.01	0.02	12,14,12	0.0	0	0.98	0.03	0.97
	8.38e-03	5.76e-03	0.0	12,13,0	3.45e-04	0.02	0.02	12,12,12			1.00	0.07	0.93
2664	0.01	0.02	0.0	13,8,0	4.71e-04	0.02	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	12,13,0	3.07e-04	0.09	0.04	12,12,13			1.00	0.07	0.93
2724	0.03	0.04	0.0	13,12,0	4.71e-04	0.04	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	12,13,0	3.07e-04	0.09	0.04	12,12,13			1.00	0.07	0.93
2728	0.04	0.05	0.0	13,12,0	1.75e-04	0.05	0.03	14,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.02	0.0	12,13,0	1.07e-04	0.05	0.03	12,12,13			1.00	0.07	0.93
2732	0.05	0.05	0.0	13,12,0	8.39e-05	0.05	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.06	0.05	0.0	12,13,0	6.20e-05	0.15	0.03	12,12,13			1.00	0.07	0.93
2736	0.05	0.05	0.0	13,12,0	2.17e-04	0.05	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.12	0.08	0.0	12,13,0	1.53e-04	0.26	0.04	12,12,13			1.00	0.07	0.93
2739	0.02	0.03	0.0	13,12,0	4.12e-04	0.03	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.12	0.08	0.0	12,13,0	2.92e-04	0.26	0.04	12,12,13			1.00	0.07	0.93
2745	6.90e-03	0.01	0.0	13,8,0	5.19e-04	0.01	0.01	12,13,12	0.0	0	0.98	0.03	0.97
	0.11	0.08	0.0	12,13,0	4.21e-04	0.24	0.04	12,12,13			1.00	0.07	0.93
2747	2.35e-03	0.02	0.0	13,8,0	5.19e-04	5.40e-03	0.01	12,12,12	0.0	0	0.98	0.03	0.97
	0.13	0.09	0.0	12,13,0	4.21e-04	0.29	0.05	12,12,13			1.00	0.07	0.93
2751	0.0	0.02	0.0	0,8,0	2.42e-04	7.00e-03	0.01	12,12,12	0.0	0	0.0	0.0	0.0
	0.14	0.10	0.0	12,13,0	2.11e-04	0.31	0.05	12,12,13			1.00	0.07	0.93
2770	4.18e-04	0.02	0.0	13,8,0	1.61e-04	7.00e-03	0.01	12,12,12	0.0	0	0.98	0.03	0.97
	0.14	0.10	0.0	12,13,0	1.23e-04	0.31	0.05	12,12,13			1.00	0.07	0.93
2773	5.99e-03	9.27e-03	0.0	13,8,0	3.85e-05	8.39e-03	7.23e-03	8,13,12	0.0	0	0.98	0.03	0.97
	0.08	0.05	0.0	12,13,0	7.30e-05	0.18	0.04	12,12,13			1.00	0.07	0.93
2776	5.99e-03	0.02	0.0	13,8,0	8.12e-05	8.39e-03	0.01	2,13,12	0.0	0	0.98	0.03	0.97
	9.21e-03	5.76e-03	0.0	12,13,0	8.10e-05	0.02	7.93e-03	2,12,13			1.00	0.07	0.93
2810	0.01	0.02	0.0	13,8,0	1.72e-04	0.02	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.04	0.03	0.0	12,13,0	1.07e-04	0.09	0.04	12,12,13			1.00	0.07	0.93
2816	2.54e-03	0.02	0.0	13,8,0	8.12e-05	7.16e-03	0.01	2,13,12	0.0	0	0.98	0.03	0.97
	8.38e-03	5.76e-03	0.0	12,13,0	8.10e-05	0.02	3.45e-03	2,12,13			1.00	0.07	0.93
2889	0.01	0.02	0.0	13,12,0	1.72e-04	0.03	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.01	0.0	12,13,0	1.07e-04	0.04	0.03	12,12,13			1.00	0.07	0.93
2893	0.01	0.02	0.0	13,12,0	8.39e-05	0.03	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.03	0.02	0.0	12,13,0	6.20e-05	0.07	0.03	12,12,13			1.00	0.07	0.93
2998	0.01	0.02	0.0	13,12,0	2.17e-04	0.03	0.03	12,13,12	0.0	0	0.98	0.03	0.97
	0.06	0.04	0.0	12,13,0	1.53e-04	0.13	0.02	12,12,13			1.00	0.07	0.93
3092	4.53e-03	0.02	0.0	13,2,0	3.64e-04	0.02	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.06	0.04	0.0	12,13,0	4.21e-04	0.13	0.08	12,12,12			1.00	0.07	0.93
3098	4.53e-03	0.02	0.0	13,8,0	4.01e-04	0.02	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.05	0.04	0.0	11,14,0	4.21e-04	0.12	0.08	12,11,12			1.00	0.07	0.93
3100	2.35e-03	0.02	0.0	13,2,0	4.01e-04	6.31e-03	9.89e-03	12,13,12	0.0	0	0.98	0.03	0.97
	0.05	0.04	0.0	13,13,0	3.04e-04	0.12	0.03	12,13,12			1.00	0.07	0.93
3104	0.0	0.02	0.0	0,2,0	2.40e-04	7.00e-03	0.01	12,12,12	0.0	0	0.0	0.0	0.0
	0.06	0.04	0.0	11,13,0	2.02e-04	0.14	0.03	12,11,12			1.00	0.07	0.93
3123	4.18e-04	0.02	0.0	13,2,0	1.82e-04	7.00e-03	0.01	8,12,12	0.0	0	0.98	0.03	0.97
	0.06	0.04	0.0	11,13,0	1.68e-04	0.14	0.02	8,11,13			1.00	0.07	0.93
3127	4.18e-04	0.01	0.0	13,8,0	3.85e-05	3.89e-03	5.97e-03	8,14,12	0.0	0	0.98	0.03	0.97
	0.03	0.02	0.0	13,12,0	3.64e-05	0.07	0.02	2,13,13			1.00	0.07	0.93
3131	0.0	0.01	0.0	0,2,0	9.60e-05	3.89e-03	5.97e-03	2,14,12	0.0	0	0.0	0.0	0.0
	3.23e-03	2.58e-03	0.0	13,12,0	9.55e-05	7.76e-03	4.92e-03	2,13,11			1.00	0.07	0.93
3133	0.0	0.01	0.0	0,2,0	9.60e-05	1.29e-03	5.09e-03	2,12,8	0.0	0	0.0	0.0	0.0
	2.73e-03	1.85e-03	0.0	12,13,0	9.55e-05	6.09e-03	9.54e-04	2,12,13			1.00	0.07	0.93
3156	1.79e-03	0.02	0.0	13,8,0	2.77e-04	0.02	0.02	12,13,12	0.0	0	0.98	0.03	0.97
	0.03	0.03	0.0	13,12,0	4.21e-04	0.09	0.08	12,13,12			1.00	0.07	0.93
3158	1.79e-03	0.01	0.0	13,8,0	2.54e-04	6.31e-03	9.89e-03	12,13,12	0.0	0	0.98	0.03	0.97
	0.02	0.02	0.0	13,12,0	2.02e-04	0.05	0.03	12,13,12			1.00	0.07	0.93
3162	0.0	0.01	0.0	0,2,0	2.16e-04	5.53e-03	9.89e-03	8,13,12	0.0	0	0.0	0.0	0.0
	9.44e-03	4.77e-03	0.0	12,13,0	2.02e-04	0.03	0.03	12,13,12			1.00	0.07	0.93
3181	0.0	0.01	0.0	0,2,0	1.82e-04	2.38e-03	5.85e-03	8,13,12	0.0	0	0.0	0.0	0.0
	9.44e-03	4.77e-03	0.0	12,13,0	1.68e-04	0.02	2.57e-03	8,12,13			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



3185	0.0	0.01	0.0	0,8,0	3.53e-05	2.02e-03	5.61e-03	2,13,12	0.0	0	0.0	0.0	0.0
	4.93e-03	3.83e-03	0.0	14,11,0	3.52e-05	0.01	1.89e-03	2,13,11			1.00	0.07	0.93
3189	0.0	0.01	0.0	0,2,0	9.60e-05	1.54e-03	5.09e-03	2,13,8	0.0	0	0.0	0.0	0.0
	0.0	1.92e-03	0.0	0,2,0	9.55e-05	1.18e-03	1.41e-03	2,13,12			0.0	0.0	0.0
3191	0.0	0.01	0.0	0,2,0	9.60e-05	8.75e-04	5.09e-03	2,14,8	0.0	0	0.0	0.0	0.0
	0.0	1.70e-03	0.0	0,8,0	9.55e-05	4.94e-04	6.01e-04	2,13,12			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.14	0.10	0.0		1.23e-03	0.31	0.15		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
67	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	423.4	12	0.08	765.2	8	0.12	-6120.8	2.209e+05	40

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
235	0.0	0.04	0.0	0,2,0	4.31e-05	7.77e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	1.72e-04	4.02e-04	0.0	13,18,0	4.08e-05	6.20e-04	6.91e-04	8,28,28			1.00	0.07	0.93
236	0.0	0.04	0.0	0,2,0	4.31e-05	7.77e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	1.72e-04	1.48e-03	0.0	13,2,0	4.08e-05	6.20e-04	6.91e-04	8,28,28			1.00	0.07	0.93
237	0.0	0.02	0.0	0,2,0	1.31e-05	1.02e-03	7.96e-03	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.48e-03	0.0	0,2,0	1.27e-05	3.32e-04	6.58e-04	12,38,2			0.0	0.0	0.0
238	0.0	0.02	0.0	0,2,0	1.08e-05	5.44e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	2.91e-04	1.45e-03	0.0	33,2,0	9.14e-06	2.85e-03	2.99e-03	24,2,2			1.00	0.07	0.93
239	0.0	0.02	0.0	0,2,0	1.08e-05	5.51e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	3.54e-04	6.43e-04	0.0	33,2,0	9.14e-06	2.91e-03	3.04e-03	24,2,2			1.00	0.07	0.93
240	0.0	0.02	0.0	0,2,0	1.05e-05	5.51e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	3.54e-04	6.43e-04	0.0	33,2,0	8.90e-06	2.91e-03	3.04e-03	12,2,2			1.00	0.07	0.93
703	0.0	0.04	0.0	0,2,0	1.04e-04	7.77e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	1.72e-04	1.06e-03	0.0	13,2,0	1.02e-04	1.16e-03	1.41e-03	8,28,2			1.00	0.07	0.93
704	0.0	0.04	0.0	0,2,0	1.04e-04	7.77e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	1.72e-04	3.24e-03	0.0	13,2,0	1.02e-04	1.16e-03	1.41e-03	8,28,2			1.00	0.07	0.93
705	0.0	0.02	0.0	0,2,0	1.62e-05	1.02e-03	7.96e-03	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.24e-03	0.0	0,2,0	1.60e-05	8.94e-04	1.21e-03	12,28,2			0.0	0.0	0.0
706	0.0	0.02	0.0	0,2,0	1.80e-05	5.44e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	5.14e-04	3.14e-03	0.0	33,2,0	1.73e-05	2.85e-03	2.99e-03	24,2,2			1.00	0.07	0.93
707	0.0	0.02	0.0	0,2,0	1.80e-05	5.51e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	5.50e-04	1.51e-03	0.0	33,2,0	1.73e-05	2.91e-03	3.04e-03	24,2,2			1.00	0.07	0.93
708	0.0	0.02	0.0	0,2,0	1.60e-05	5.51e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	5.50e-04	1.39e-03	0.0	33,28,0	1.54e-05	2.91e-03	3.04e-03	12,2,2			1.00	0.07	0.93
1059	0.0	0.04	0.0	0,2,0	1.81e-04	9.87e-04	0.01	8,28,2	0.0	0	0.0	0.0	0.0
	1.15e-03	1.06e-03	0.0	18,2,0	1.78e-04	2.60e-03	1.56e-03	8,38,38			1.00	0.07	0.93
1060	0.0	0.04	0.0	0,2,0	1.81e-04	9.87e-04	0.01	8,28,2	0.0	0	0.0	0.0	0.0
	1.15e-03	3.24e-03	0.0	18,2,0	1.78e-04	2.60e-03	1.56e-03	8,38,38			1.00	0.07	0.93
1061	0.0	0.02	0.0	0,2,0	2.50e-05	6.33e-04	7.32e-03	8,2,2	0.0	0	0.0	0.0	0.0
	3.28e-04	3.24e-03	0.0	40,2,0	2.45e-05	1.76e-03	1.21e-03	8,38,2			1.00	0.07	0.93
1062	0.0	0.02	0.0	0,2,0	3.19e-05	2.72e-03	0.01	18,2,2	0.0	0	0.0	0.0	0.0
	5.14e-04	3.14e-03	0.0	33,2,0	3.11e-05	1.69e-03	2.05e-03	18,2,2			1.00	0.07	0.93
1063	0.0	0.02	0.0	0,2,0	3.19e-05	2.74e-03	0.01	18,2,2	0.0	0	0.0	0.0	0.0
	5.50e-04	1.51e-03	0.0	33,2,0	3.11e-05	1.69e-03	2.05e-03	18,2,2			1.00	0.07	0.93
1064	0.0	0.02	0.0	0,2,0	2.46e-05	2.74e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	5.50e-04	1.39e-03	0.0	33,28,0	2.42e-05	1.66e-03	1.96e-03	12,33,2			1.00	0.07	0.93
1457	0.0	0.03	0.0	0,2,0	3.89e-04	9.87e-04	0.01	2,28,2	0.0	0	0.0	0.0	0.0
	4.26e-03	1.90e-03	0.0	2,8,0	3.88e-04	8.34e-03	3.64e-03	2,2,38			1.00	0.07	0.93
1458	0.0	0.02	0.0	0,2,0	5.09e-05	2.92e-04	5.89e-03	8,38,2	0.0	0	0.0	0.0	0.0
	1.90e-03	1.97e-03	0.0	18,8,0	5.02e-05	2.69e-03	7.41e-04	8,18,8			1.00	0.07	0.93
1459	0.0	0.02	0.0	0,2,0	4.42e-05	2.78e-03	8.57e-03	18,2,2	0.0	0	0.0	0.0	0.0
	2.07e-03	1.97e-03	0.0	38,8,0	4.33e-05	3.92e-03	7.83e-04	18,38,18			1.00	0.07	0.93
1460	0.0	0.02	0.0	0,2,0	4.42e-05	2.78e-03	8.64e-03	18,2,2	0.0	0	0.0	0.0	0.0
	2.14e-03	1.33e-03	0.0	38,18,0	4.33e-05	4.26e-03	9.01e-04	18,38,8			1.00	0.07	0.93
1461	0.0	0.02	0.0	0,2,0	3.81e-05	2.78e-03	8.64e-03	8,2,2	0.0	0	0.0	0.0	0.0
	2.14e-03	1.33e-03	0.0	38,18,0	3.71e-05	4.26e-03	9.01e-04	8,38,8			1.00	0.07	0.93
1619	0.0	0.03	0.0	0,2,0	3.89e-04	9.87e-04	0.01	2,28,2	0.0	0	0.0	0.0	0.0
	4.26e-03	6.10e-04	0.0	2,11,0	3.88e-04	8.34e-03	3.64e-03	2,2,38			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



2067	0.0	0.02	0.0	0,2,0	5.03e-04	5.91e-04	7.90e-03	2,46,2	0.0	0	0.0	0.0	0.0	0.0
	4.26e-03	1.58e-03	0.0	2,28,0	5.02e-04	8.34e-03	3.64e-03	2,2,38			1.00	0.07	0.93	
2068	0.0	0.02	0.0	0,2,0	5.03e-04	5.91e-04	7.90e-03	2,46,2	0.0	0	0.0	0.0	0.0	0.0
	4.26e-03	1.58e-03	0.0	2,28,0	5.02e-04	8.34e-03	3.64e-03	2,2,38			1.00	0.07	0.93	
2069	0.0	9.94e-03	0.0	0,2,0	5.09e-05	6.13e-04	3.83e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	3.84e-03	6.70e-04	0.0	38,13,0	5.02e-05	5.10e-03	6.82e-04	8,38,28			1.00	0.07	0.93	
2070	0.0	0.01	0.0	0,2,0	7.60e-05	3.60e-03	7.83e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	3.84e-03	6.93e-04	0.0	38,8,0	7.45e-05	5.10e-03	9.98e-04	18,38,18			1.00	0.07	0.93	
2071	0.0	0.01	0.0	0,2,0	7.68e-05	3.60e-03	7.83e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.97e-03	9.47e-04	0.0	38,18,0	7.48e-05	4.26e-03	1.05e-03	8,38,8			1.00	0.07	0.93	
2072	0.0	0.01	0.0	0,2,0	7.68e-05	3.60e-03	7.80e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.83e-03	9.47e-04	0.0	38,18,0	7.48e-05	4.26e-03	1.05e-03	8,38,8			1.00	0.07	0.93	
2828	0.0	0.01	0.0	0,2,0	5.03e-04	6.84e-05	3.89e-03	2,43,2	0.0	0	0.0	0.0	0.0	0.0
	1.31e-03	1.58e-03	0.0	38,28,0	5.02e-04	3.48e-03	2.30e-03	2,38,38			1.00	0.07	0.93	
2829	0.0	0.01	0.0	0,2,0	5.03e-04	1.80e-04	3.89e-03	2,28,2	0.0	0	0.0	0.0	0.0	0.0
	2.65e-03	1.58e-03	0.0	38,28,0	5.02e-04	3.88e-03	2.30e-03	2,38,38			1.00	0.07	0.93	
2830	0.0	4.50e-03	0.0	0,2,0	4.67e-05	6.13e-04	2.25e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	3.84e-03	3.54e-04	0.0	38,13,0	4.64e-05	5.10e-03	6.82e-04	8,38,28			1.00	0.07	0.93	
2831	0.0	9.42e-03	0.0	0,2,0	7.60e-05	3.60e-03	7.08e-03	18,2,2	0.0	0	0.0	0.0	0.0	0.0
	3.84e-03	3.21e-04	0.0	38,13,0	7.45e-05	5.10e-03	9.98e-04	18,38,18			1.00	0.07	0.93	
2832	0.0	9.43e-03	0.0	0,2,0	7.68e-05	3.60e-03	7.08e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.97e-03	4.26e-04	0.0	38,13,0	7.48e-05	4.08e-03	1.05e-03	8,38,8			1.00	0.07	0.93	
2833	0.0	9.43e-03	0.0	0,2,0	7.68e-05	3.60e-03	7.07e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.83e-03	4.26e-04	0.0	38,13,0	7.48e-05	4.01e-03	1.05e-03	8,38,8			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	4.26e-03	0.04	0.0		5.03e-04	8.34e-03	0.02		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
68	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	512.4	13	0.05	160.8	2	0.09	-3728.2	1.489e+05	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
224	0.0	0.02	0.0	0,18,0	1.28e-05	5.50e-04	7.18e-03	11,28,18	0.0	0	0.0	0.0	0.0
	3.97e-03	2.94e-03	0.0	45,45,0	1.27e-05	9.36e-03	5.30e-03	11,45,45			1.00	0.07	0.93
225	0.0	0.02	0.0	0,18,0	1.36e-05	8.86e-04	7.18e-03	13,45,18	0.0	0	0.0	0.0	0.0
	3.97e-03	2.94e-03	0.0	45,45,0	1.35e-05	9.36e-03	5.58e-03	13,45,45			1.00	0.07	0.93
226	0.0	0.02	0.0	0,38,0	1.52e-05	8.86e-04	6.81e-03	12,45,38	0.0	0	0.0	0.0	0.0
	2.01e-03	1.34e-03	0.0	45,45,0	1.51e-05	6.46e-03	5.58e-03	12,45,45			1.00	0.07	0.93
227	0.0	0.02	0.0	0,38,0	1.52e-05	3.27e-04	5.45e-03	12,45,38	0.0	0	0.0	0.0	0.0
	1.28e-03	9.29e-04	0.0	45,43,0	1.51e-05	2.90e-03	6.89e-04	12,45,44			1.00	0.07	0.93
228	0.0	9.79e-03	0.0	0,38,0	1.15e-05	3.27e-04	3.51e-03	13,45,38	0.0	0	0.0	0.0	0.0
	4.62e-04	6.09e-04	0.0	45,44,0	1.15e-05	1.19e-03	2.57e-04	13,45,44			1.00	0.07	0.93
229	0.0	7.88e-03	0.0	0,2,0	1.01e-05	2.72e-04	2.79e-03	13,45,38	0.0	0	0.0	0.0	0.0
	1.34e-04	4.68e-04	0.0	45,8,0	1.01e-05	4.73e-04	2.12e-04	13,45,44			1.00	0.07	0.93
230	0.0	7.68e-03	0.0	0,2,0	9.04e-06	2.03e-04	2.67e-03	13,45,28	0.0	0	0.0	0.0	0.0
	0.0	4.35e-04	0.0	0,8,0	9.02e-06	1.44e-04	2.12e-04	13,46,44			0.0	0.0	0.0
692	0.0	0.02	0.0	0,18,0	1.28e-05	1.06e-03	7.18e-03	11,45,18	0.0	0	0.0	0.0	0.0
	5.94e-03	4.32e-03	0.0	45,45,0	1.27e-05	0.01	5.30e-03	11,45,45			1.00	0.07	0.93
693	0.0	0.02	0.0	0,18,0	1.36e-05	1.06e-03	7.18e-03	13,45,18	0.0	0	0.0	0.0	0.0
	5.94e-03	4.32e-03	0.0	45,45,0	1.35e-05	0.01	6.46e-03	13,45,45			1.00	0.07	0.93
694	0.0	0.02	0.0	0,38,0	1.62e-05	8.86e-04	6.81e-03	12,45,38	0.0	0	0.0	0.0	0.0
	3.56e-03	2.85e-03	0.0	45,44,0	1.61e-05	8.51e-03	6.46e-03	12,46,45			1.00	0.07	0.93
695	0.0	0.02	0.0	0,38,0	1.62e-05	3.27e-04	5.45e-03	12,45,38	0.0	0	0.0	0.0	0.0
	3.49e-03	2.85e-03	0.0	45,44,0	1.61e-05	8.11e-03	1.36e-03	12,45,43			1.00	0.07	0.93
696	0.0	9.79e-03	0.0	0,38,0	1.15e-05	3.27e-04	3.51e-03	13,45,38	0.0	0	0.0	0.0	0.0
	1.68e-03	1.95e-03	0.0	45,44,0	1.15e-05	4.23e-03	8.70e-04	13,45,44			1.00	0.07	0.93
697	0.0	7.88e-03	0.0	0,2,0	1.01e-05	2.72e-04	2.79e-03	13,45,38	0.0	0	0.0	0.0	0.0
	5.95e-04	1.36e-03	0.0	45,44,0	1.01e-05	1.83e-03	5.74e-04	13,45,44			1.00	0.07	0.93
698	0.0	7.68e-03	0.0	0,2,0	9.04e-06	2.03e-04	2.67e-03	13,45,28	0.0	0	0.0	0.0	0.0
	0.0	1.27e-03	0.0	0,8,0	9.02e-06	4.88e-04	4.21e-04	13,45,44			0.0	0.0	0.0
1048	0.0	0.02	0.0	0,18,0	9.35e-06	1.06e-03	6.27e-03	12,45,38	0.0	0	0.0	0.0	0.0
	5.94e-03	4.54e-03	0.0	45,44,0	9.15e-06	0.01	4.97e-03	11,45,45			1.00	0.07	0.93



1049	0.0	0.02	0.0	0,18,0	1.08e-05	1.06e-03	6.27e-03	11,45,38	0.0	0	0.0	0.0	0.0	0.0
	5.94e-03	4.54e-03	0.0	45,44,0	1.07e-05	0.01	7.22e-03	11,45,43			1.00	0.07	0.93	
1050	0.0	0.02	0.0	0,38,0	1.62e-05	1.68e-04	5.42e-03	12,45,38	0.0	0	0.0	0.0	0.0	0.0
	4.49e-03	4.08e-03	0.0	45,45,0	1.61e-05	0.01	7.22e-03	12,45,43			1.00	0.07	0.93	
1051	0.0	0.01	0.0	0,38,0	1.62e-05	2.14e-04	4.36e-03	12,45,38	0.0	0	0.0	0.0	0.0	0.0
	4.49e-03	4.08e-03	0.0	45,45,0	1.61e-05	0.01	1.96e-03	12,45,45			1.00	0.07	0.93	
1052	0.0	9.00e-03	0.0	0,38,0	1.02e-05	2.14e-04	3.15e-03	14,45,38	0.0	0	0.0	0.0	0.0	0.0
	2.39e-03	2.97e-03	0.0	45,44,0	1.02e-05	6.17e-03	1.30e-03	14,45,44			1.00	0.07	0.93	
1053	0.0	7.22e-03	0.0	0,38,0	8.95e-06	1.97e-04	2.54e-03	13,45,38	0.0	0	0.0	0.0	0.0	0.0
	8.99e-04	2.23e-03	0.0	45,44,0	8.95e-06	2.86e-03	8.94e-04	13,45,44			1.00	0.07	0.93	
1054	0.0	7.04e-03	0.0	0,2,0	8.09e-06	1.58e-04	2.47e-03	13,45,28	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.15e-03	0.0	0,8,0	8.08e-06	6.72e-04	7.17e-04	13,45,44			0.0	0.0	0.0	0.0
1445	0.0	0.02	0.0	0,38,0	7.39e-06	7.25e-04	5.67e-03	8,45,38	0.0	0	0.0	0.0	0.0	0.0
	6.39e-03	5.02e-03	0.0	44,44,0	7.10e-06	0.02	5.40e-03	8,44,44			1.00	0.07	0.93	
1446	0.0	0.02	0.0	0,38,0	7.39e-06	7.25e-04	5.67e-03	8,45,38	0.0	0	0.0	0.0	0.0	0.0
	6.39e-03	5.02e-03	0.0	44,44,0	7.10e-06	0.02	7.23e-03	8,44,45			1.00	0.07	0.93	
1447	0.0	0.01	0.0	0,2,0	2.06e-05	1.08e-04	4.57e-03	8,28,38	0.0	0	0.0	0.0	0.0	0.0
	4.49e-03	4.08e-03	0.0	45,45,0	2.05e-05	0.01	7.23e-03	8,45,45			1.00	0.07	0.93	
1448	0.0	0.01	0.0	0,38,0	2.06e-05	1.03e-04	3.60e-03	8,28,38	0.0	0	0.0	0.0	0.0	0.0
	4.49e-03	4.08e-03	0.0	45,45,0	2.05e-05	0.01	1.96e-03	8,45,45			1.00	0.07	0.93	
1449	0.0	7.60e-03	0.0	0,38,0	9.00e-06	1.03e-04	2.65e-03	12,28,2	0.0	0	0.0	0.0	0.0	0.0
	2.41e-03	2.97e-03	0.0	45,44,0	8.99e-06	6.17e-03	1.30e-03	12,45,44			1.00	0.07	0.93	
1450	0.0	6.17e-03	0.0	0,2,0	6.24e-06	8.67e-05	2.18e-03	14,45,28	0.0	0	0.0	0.0	0.0	0.0
	9.09e-04	2.23e-03	0.0	45,44,0	6.23e-06	2.86e-03	8.94e-04	14,45,44			1.00	0.07	0.93	
1451	0.0	5.98e-03	0.0	0,2,0	6.22e-06	8.67e-05	2.10e-03	24,45,28	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.15e-03	0.0	0,8,0	6.21e-06	6.72e-04	7.17e-04	24,45,44			0.0	0.0	0.0	0.0
2055	0.0	0.01	0.0	0,2,0	1.71e-05	7.25e-04	4.92e-03	2,45,2	0.0	0	0.0	0.0	0.0	0.0
	6.39e-03	5.02e-03	0.0	44,44,0	1.67e-05	0.02	5.40e-03	2,44,44			1.00	0.07	0.93	
2056	0.0	0.01	0.0	0,2,0	1.71e-05	7.25e-04	4.92e-03	2,45,2	0.0	0	0.0	0.0	0.0	0.0
	6.39e-03	5.02e-03	0.0	44,44,0	1.67e-05	0.02	7.23e-03	2,44,45			1.00	0.07	0.93	
2057	0.0	0.01	0.0	0,2,0	3.35e-05	4.24e-04	4.02e-03	8,43,2	0.0	0	0.0	0.0	0.0	0.0
	4.25e-03	3.76e-03	0.0	45,45,0	3.33e-05	0.01	7.23e-03	8,45,45			1.00	0.07	0.93	
2058	0.0	8.71e-03	0.0	0,2,0	3.35e-05	3.55e-04	3.03e-03	8,45,2	0.0	0	0.0	0.0	0.0	0.0
	4.25e-03	3.76e-03	0.0	45,45,0	3.33e-05	0.01	1.80e-03	8,45,45			1.00	0.07	0.93	
2059	0.0	5.99e-03	0.0	0,2,0	9.75e-06	3.55e-04	2.07e-03	8,45,2	0.0	0	0.0	0.0	0.0	0.0
	2.41e-03	2.80e-03	0.0	45,44,0	9.74e-06	6.08e-03	1.22e-03	8,45,44			1.00	0.07	0.93	
2060	0.0	4.93e-03	0.0	0,28,0	5.12e-06	2.73e-04	1.75e-03	12,45,28	0.0	0	0.0	0.0	0.0	0.0
	9.09e-04	2.13e-03	0.0	45,8,0	5.11e-06	2.75e-03	8.51e-04	12,45,44			1.00	0.07	0.93	
2061	0.0	4.76e-03	0.0	0,28,0	3.28e-06	1.99e-04	1.70e-03	14,45,28	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.13e-03	0.0	0,8,0	3.28e-06	6.70e-04	6.76e-04	14,45,44			0.0	0.0	0.0	0.0
2816	0.0	0.01	0.0	0,2,0	3.82e-05	3.91e-04	3.87e-03	2,28,2	0.0	0	0.0	0.0	0.0	0.0
	6.22e-03	4.96e-03	0.0	46,44,0	3.79e-05	0.01	6.68e-03	2,46,44			1.00	0.07	0.93	
2817	0.0	0.01	0.0	0,2,0	3.82e-05	5.73e-04	3.87e-03	2,12,2	0.0	0	0.0	0.0	0.0	0.0
	6.22e-03	4.96e-03	0.0	46,44,0	3.79e-05	0.01	6.70e-03	2,46,44			1.00	0.07	0.93	
2818	0.0	0.01	0.0	0,2,0	3.35e-05	5.73e-04	3.72e-03	8,12,28	0.0	0	0.0	0.0	0.0	0.0
	4.45e-03	4.02e-03	0.0	46,44,0	3.33e-05	0.01	6.70e-03	8,46,44			1.00	0.07	0.93	
2819	0.0	6.66e-03	0.0	0,2,0	3.35e-05	3.55e-04	2.41e-03	8,45,2	0.0	0	0.0	0.0	0.0	0.0
	3.82e-03	3.41e-03	0.0	45,43,0	3.33e-05	9.17e-03	1.63e-03	8,45,45			1.00	0.07	0.93	
2820	0.0	4.04e-03	0.0	0,2,0	9.75e-06	3.55e-04	1.67e-03	8,45,28	0.0	0	0.0	0.0	0.0	0.0
	9.55e-04	1.46e-03	0.0	45,44,0	9.74e-06	2.55e-03	7.55e-04	8,45,43			1.00	0.07	0.93	
2821	0.0	3.31e-03	0.0	0,2,0	4.08e-06	2.73e-04	1.32e-03	12,45,28	0.0	0	0.0	0.0	0.0	0.0
	3.09e-04	1.15e-03	0.0	45,8,0	4.07e-06	9.79e-04	4.25e-04	12,45,44			1.00	0.07	0.93	
2822	0.0	3.20e-03	0.0	0,2,0	2.45e-06	1.99e-04	1.21e-03	14,45,28	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.15e-03	0.0	0,8,0	2.44e-06	2.52e-04	3.70e-04	14,45,28			0.0	0.0	0.0	0.0
2999	1.05e-03	3.03e-03	0.0	46,28,0	6.15e-06	8.78e-04	1.65e-03	11,46,12	0.0	0	0.98	0.03	0.97	
	4.45e-03	4.02e-03	0.0	46,44,0	6.09e-06	0.01	6.70e-03	11,46,44			1.00	0.07	0.93	
3133	0.0	7.59e-03	0.0	0,2,0	3.95e-05	7.47e-04	2.92e-03	2,46,2	0.0	0	0.0	0.0	0.0	0.0
	6.22e-03	4.96e-03	0.0	46,44,0	3.91e-05	0.01	6.68e-03	2,46,44			1.00	0.07	0.93	
3134	1.05e-03	7.59e-03	0.0	46,2,0	3.95e-05	8.78e-04	2.92e-03	2,46,2	0.0	0	0.98	0.03	0.97	
	6.22e-03	4.96e-03	0.0	46,44,0	3.91e-05	0.01	6.70e-03	2,46,44			1.00	0.07	0.93	
3191	0.0	3.94e-03	0.0	0,2,0	3.95e-05	7.47e-04	1.58e-03	2,46,28	0.0	0	0.0	0.0	0.0	0.0
	2.56e-03	1.52e-03	0.0	44,46,0	3.91e-05	5.62e-03	1.52e-03	2,44,44			1.00	0.07	0.93	
3192	1.05e-03	3.94e-03	0.0	46,2,0	3.95e-05	8.78e-04	1.58e-03	2,46,28	0.0	0	0.98	0.03	0.97	
	2.56e-03	1.52e-03	0.0	44,46,0	3.91e-05	5.62e-03	2.57e-03	2,44,44			1.00	0.07	0.93	
3193	1.05e-03	1.39e-03	0.0	46,33,0	2.89e-06	8.78e-04	1.01e-03	43,46,11	0.0	0	0.98	0.03	0.97	
	2.05e-03	6.51e-04	0.0	34,13,0	2.87e-06	3.86e-03	2.57e-03	43,44,44			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	6.39e-03	0.02	0.0		3.95e-05	0.02	7.23e-03		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
69	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.09	-1074.3	34	0.08	-132.6	2	0.13	-6821.1	4.789e+05	44

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1	0.0	0.03	0.0	0,2,0	2.29e-03	0.02	0.03	11,11,12	0.0	0	0.0	0.0	0.0
	3.37e-03	7.52e-03	0.0	13,34,0	1.42e-03	0.04	0.04	11,13,14			1.00	0.07	0.93
58	0.02	0.07	0.0	13,12,0	2.48e-03	0.05	0.07	12,13,12	0.0	0	0.95	0.03	0.97
	0.01	8.37e-03	0.0	12,11,0	1.51e-03	0.05	0.05	11,12,11			1.00	0.07	0.93
67	0.02	0.07	0.0	13,12,0	2.48e-03	0.05	0.07	12,13,12	0.0	0	0.95	0.03	0.97
	0.01	8.37e-03	0.0	12,11,0	1.51e-03	0.05	0.05	11,12,11			1.00	0.07	0.93
83	0.02	0.05	0.0	13,12,0	2.86e-04	0.04	0.06	13,13,12	0.0	0	0.95	0.03	0.97
	3.21e-03	2.67e-03	0.0	12,13,0	1.25e-04	8.72e-03	7.62e-03	13,12,13			1.00	0.07	0.93
92	0.02	0.05	0.0	13,12,0	2.86e-04	0.05	0.06	13,13,12	0.0	0	0.95	0.03	0.97
	4.08e-03	3.08e-03	0.0	12,13,0	1.25e-04	9.64e-03	7.62e-03	13,12,13			1.00	0.07	0.93
101	0.02	0.05	0.0	13,12,0	2.51e-04	0.05	0.06	13,13,12	0.0	0	0.95	0.03	0.97
	4.08e-03	3.08e-03	0.0	12,13,0	9.92e-05	9.64e-03	7.36e-03	13,12,13			1.00	0.07	0.93
107	0.02	0.04	0.0	13,12,0	2.33e-04	0.04	0.05	13,13,12	0.0	0	0.95	0.03	0.97
	5.67e-03	4.64e-03	0.0	12,11,0	1.17e-04	0.01	7.78e-03	13,12,14			1.00	0.07	0.93
114	0.01	0.03	0.0	13,12,0	3.51e-04	0.03	0.04	13,13,12	0.0	0	0.95	0.03	0.97
	7.82e-03	6.45e-03	0.0	12,13,0	2.08e-04	0.02	0.01	13,12,13			1.00	0.07	0.93
120	4.66e-03	0.03	0.0	13,8,0	4.96e-04	0.02	0.04	13,11,12	0.0	0	0.95	0.03	0.97
	7.82e-03	8.62e-03	0.0	12,12,0	3.21e-04	0.02	0.02	13,13,12			1.00	0.07	0.93
127	0.0	0.01	0.0	0,8,0	4.96e-04	0.01	0.02	13,13,12	0.0	0	0.0	0.0	0.0
	7.37e-03	8.62e-03	0.0	13,12,0	3.21e-04	0.02	0.02	13,13,12			1.00	0.07	0.93
470	0.02	0.05	0.0	13,12,0	2.29e-03	0.03	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	3.37e-03	7.52e-03	0.0	13,34,0	1.42e-03	0.04	0.04	11,13,14			1.00	0.07	0.93
527	0.08	0.11	0.0	13,12,0	2.48e-03	0.07	0.07	12,13,12	0.0	0	0.95	0.03	0.97
	0.01	8.37e-03	0.0	12,11,0	1.51e-03	0.05	0.05	11,12,11			1.00	0.07	0.93
536	0.08	0.11	0.0	13,12,0	2.48e-03	0.07	0.07	12,13,12	0.0	0	0.95	0.03	0.97
	0.01	8.37e-03	0.0	12,11,0	1.51e-03	0.05	0.05	11,12,11			1.00	0.07	0.93
552	0.11	0.12	0.0	13,12,0	2.96e-04	0.11	0.09	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	12,13,0	1.25e-04	0.04	0.01	13,12,13			1.00	0.07	0.93
561	0.11	0.12	0.0	13,12,0	2.96e-04	0.11	0.09	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	12,13,0	1.25e-04	0.04	0.01	13,12,13			1.00	0.07	0.93
570	0.09	0.10	0.0	13,12,0	2.51e-04	0.09	0.07	13,13,12	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	12,13,0	9.92e-05	0.03	7.36e-03	13,14,13			1.00	0.07	0.93
576	0.07	0.08	0.0	13,12,0	2.33e-04	0.08	0.06	13,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	13,12,0	1.17e-04	0.05	7.91e-03	13,13,12			1.00	0.07	0.93
583	0.06	0.07	0.0	13,12,0	3.51e-04	0.06	0.05	13,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	12,14,0	2.08e-04	0.07	0.01	13,12,13			1.00	0.07	0.93
589	0.04	0.05	0.0	13,12,0	4.96e-04	0.04	0.04	13,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	12,14,0	3.21e-04	0.07	0.02	13,12,12			1.00	0.07	0.93
596	0.01	0.02	0.0	13,12,0	4.96e-04	0.02	0.02	13,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	13,12,0	3.21e-04	0.04	0.02	13,13,12			1.00	0.07	0.93
841	0.03	0.06	0.0	13,12,0	9.71e-04	0.03	0.05	12,13,12	0.0	0	0.95	0.03	0.97
	2.62e-03	4.21e-03	0.0	25,34,0	5.59e-04	0.02	0.02	12,11,11			1.00	0.07	0.93
885	0.11	0.13	0.0	13,12,0	1.00e-03	0.08	0.06	11,13,12	0.0	0	0.95	0.03	0.97
	4.38e-03	4.21e-03	0.0	13,34,0	5.75e-04	0.02	0.02	11,13,11			1.00	0.07	0.93
894	0.11	0.13	0.0	13,12,0	1.00e-03	0.08	0.06	11,13,12	0.0	0	0.95	0.03	0.97
	4.38e-03	3.67e-03	0.0	13,11,0	5.75e-04	0.02	0.02	11,13,11			1.00	0.07	0.93
910	0.16	0.15	0.0	13,12,0	2.96e-04	0.12	0.09	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	13,12,0	8.50e-05	0.04	0.02	12,13,12			1.00	0.07	0.93
919	0.16	0.15	0.0	13,12,0	2.96e-04	0.12	0.09	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	13,12,0	8.50e-05	0.04	0.02	12,13,12			1.00	0.07	0.93
928	0.13	0.12	0.0	13,12,0	2.05e-04	0.10	0.07	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	25,24,0	6.17e-05	0.04	7.90e-03	34,25,12			1.00	0.07	0.93
934	0.11	0.10	0.0	13,12,0	1.56e-04	0.08	0.06	13,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	13,12,0	6.82e-05	0.08	0.01	13,13,12			1.00	0.07	0.93
941	0.08	0.08	0.0	13,12,0	2.18e-04	0.06	0.05	13,13,12	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	13,12,0	1.24e-04	0.10	0.02	13,13,12			1.00	0.07	0.93
947	0.05	0.06	0.0	13,12,0	2.95e-04	0.04	0.04	13,13,12	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	13,12,0	1.98e-04	0.10	0.02	13,13,12			1.00	0.07	0.93
954	0.02	0.03	0.0	13,12,0	2.95e-04	0.02	0.02	13,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	13,12,0	1.98e-04	0.05	0.02	13,13,12			1.00	0.07	0.93
1241	0.03	0.06	0.0	13,12,0	1.20e-03	0.02	0.03	11,13,12	0.0	0	0.95	0.03	0.97
	2.62e-03	3.77e-03	0.0	25,34,0	7.48e-04	0.02	0.02	11,13,13			1.00	0.07	0.93
1255	0.11	0.13	0.0	13,12,0	1.22e-03	0.08	0.06	12,13,12	0.0	0	0.95	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1256	2.84e-03	4.70e-03	0.0	13,12,0	7.48e-04	0.02	0.02	11,13,13			1.00	0.07	0.93
	0.11	0.13	0.0	13,12,0	1.22e-03	0.08	0.06	12,13,12	0.0	0	0.95	0.03	0.97
1593	2.84e-03	4.70e-03	0.0	13,12,0	7.34e-04	0.01	0.01	12,13,14			1.00	0.07	0.93
	0.16	0.15	0.0	13,12,0	4.80e-04	0.12	0.09	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	13,12,0	2.23e-04	0.04	0.02	12,13,12			1.00	0.07	0.93
1594	0.16	0.15	0.0	13,12,0	4.80e-04	0.12	0.09	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	13,12,0	2.23e-04	0.04	0.02	12,13,12			1.00	0.07	0.93
1595	0.13	0.12	0.0	13,12,0	2.07e-04	0.10	0.07	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	25,24,0	6.84e-05	0.04	7.90e-03	13,25,12			1.00	0.07	0.93
1596	0.11	0.10	0.0	13,12,0	1.77e-04	0.08	0.06	12,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	13,12,0	8.70e-05	0.08	0.01	12,13,12			1.00	0.07	0.93
1597	0.08	0.08	0.0	13,12,0	1.92e-04	0.06	0.05	12,13,12	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	13,12,0	1.14e-04	0.10	0.02	12,13,12			1.00	0.07	0.93
1598	0.05	0.06	0.0	13,12,0	1.92e-04	0.04	0.03	12,13,12	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	13,12,0	1.30e-04	0.10	0.02	13,13,14			1.00	0.07	0.93
1601	0.02	0.03	0.0	13,12,0	1.81e-04	0.02	0.02	13,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	13,12,0	1.30e-04	0.05	0.02	13,13,14			1.00	0.07	0.93
1725	0.02	0.05	0.0	13,12,0	2.54e-03	0.04	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	13,12,0	1.57e-03	0.04	0.03	11,13,14			1.00	0.07	0.93
1787	0.08	0.10	0.0	13,12,0	2.54e-03	0.07	0.06	11,13,12	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	12,12,0	1.57e-03	0.07	0.06	11,12,13			1.00	0.07	0.93
1801	0.08	0.10	0.0	13,12,0	2.11e-03	0.07	0.06	12,13,12	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	12,13,0	1.40e-03	0.10	0.06	12,12,13			1.00	0.07	0.93
1814	2.34e-03	0.01	0.0	13,2,0	6.76e-04	1.12e-03	5.83e-03	12,11,8	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	12,13,0	4.93e-04	0.10	0.01	12,12,13			1.00	0.07	0.93
1828	0.12	0.13	0.0	13,12,0	5.28e-04	0.11	0.09	12,13,12	0.0	0	0.95	0.03	0.97
	0.04	0.02	0.0	12,13,0	3.80e-04	0.08	0.02	2,12,13			1.00	0.07	0.93
1842	0.12	0.13	0.0	13,12,0	5.28e-04	0.11	0.09	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	12,13,0	2.76e-04	0.06	0.02	12,12,13			1.00	0.07	0.93
1857	0.10	0.10	0.0	13,12,0	2.90e-04	0.10	0.07	13,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	25,24,0	1.20e-04	0.04	8.08e-03	12,25,13			1.00	0.07	0.93
1866	0.09	0.08	0.0	13,12,0	2.96e-04	0.08	0.06	12,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	13,12,0	1.63e-04	0.07	0.01	12,13,12			1.00	0.07	0.93
1875	0.07	0.07	0.0	13,12,0	3.77e-04	0.06	0.05	12,13,12	0.0	0	0.95	0.03	0.97
	0.04	0.03	0.0	13,12,0	2.30e-04	0.10	0.02	12,13,12			1.00	0.07	0.93
1884	0.04	0.05	0.0	13,12,0	4.05e-04	0.04	0.03	12,13,12	0.0	0	0.95	0.03	0.97
	0.04	0.03	0.0	13,12,0	2.61e-04	0.10	0.02	12,13,12			1.00	0.07	0.93
1891	0.01	0.02	0.0	13,12,0	4.05e-04	0.02	0.02	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	13,12,0	2.61e-04	0.05	0.02	12,13,12			1.00	0.07	0.93
2336	5.76e-03	0.03	0.0	13,8,0	2.54e-03	0.04	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	13,12,0	1.57e-03	0.04	0.03	11,13,14			1.00	0.07	0.93
2462	0.02	0.04	0.0	13,8,0	2.54e-03	0.05	0.06	11,13,12	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	12,12,0	1.57e-03	0.07	0.06	11,12,13			1.00	0.07	0.93
2481	0.02	0.04	0.0	13,8,0	2.11e-03	0.05	0.06	12,13,12	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	12,13,0	1.40e-03	0.10	0.06	12,12,13			1.00	0.07	0.93
2499	2.34e-03	0.01	0.0	13,2,0	6.76e-04	1.12e-03	5.83e-03	12,11,8	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	12,13,0	4.93e-04	0.10	0.01	12,12,13			1.00	0.07	0.93
2560	0.03	0.05	0.0	13,12,0	5.28e-04	0.07	0.07	12,13,12	0.0	0	0.95	0.03	0.97
	0.04	0.02	0.0	12,13,0	3.80e-04	0.08	0.02	2,12,13			1.00	0.07	0.93
2581	0.03	0.05	0.0	13,12,0	5.28e-04	0.07	0.07	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	12,13,0	2.76e-04	0.06	0.02	12,12,13			1.00	0.07	0.93
2604	0.03	0.04	0.0	13,12,0	2.90e-04	0.06	0.06	13,13,12	0.0	0	0.95	0.03	0.97
	9.62e-03	6.56e-03	0.0	11,14,0	1.20e-04	0.02	8.08e-03	12,11,13			1.00	0.07	0.93
2617	0.03	0.04	0.0	13,12,0	2.96e-04	0.05	0.05	12,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	13,14,0	1.63e-04	0.04	7.34e-03	12,13,14			1.00	0.07	0.93
2634	0.02	0.03	0.0	13,12,0	3.77e-04	0.04	0.04	12,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	13,12,0	2.30e-04	0.06	0.01	12,13,12			1.00	0.07	0.93
2651	0.01	0.03	0.0	13,8,0	4.05e-04	0.03	0.03	12,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	13,12,0	2.61e-04	0.06	0.02	12,13,12			1.00	0.07	0.93
2666	1.78e-03	0.02	0.0	13,2,0	4.05e-04	0.01	0.02	12,11,12	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	13,12,0	2.61e-04	0.03	0.02	12,13,12			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.16	0.15	0.0		2.54e-03	0.12	0.09		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
70	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



ok	0.08	daN -326.6	24	0.06	daN 584.3	8	0.10	daN -5997.5	daN cm 1.972e+05	8			
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
273	0.0	0.02	0.0	0,2,0	1.46e-05	5.80e-04	8.62e-03	24,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.43e-03	0.0	0,2,0	1.42e-05	3.66e-04	6.81e-04	24,38,2					
274	0.0	0.04	0.0	0,2,0	4.35e-05	7.77e-04	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	2.11e-04	1.43e-03	0.0	25,2,0	4.11e-05	6.25e-04	7.10e-04	18,28,28			1.00	0.07	0.93
275	0.0	0.06	0.0	0,2,0	4.35e-05	1.08e-03	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	7.61e-04	4.73e-04	0.0	18,8,0	4.11e-05	1.06e-03	7.10e-04	18,18,28			1.00	0.07	0.93
276	0.0	0.06	0.0	0,2,0	1.80e-05	1.08e-03	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	7.61e-04	3.12e-05	0.0	18,13,0	1.47e-05	1.06e-03	2.38e-04	8,18,38			1.00	0.07	0.93
277	0.0	0.01	0.0	0,18,0	8.47e-06	1.24e-04	5.20e-03	26,28,18	0.0	0	0.0	0.0	0.0
	1.87e-04	3.03e-04	0.0	13,24,0	8.27e-06	2.37e-04	2.30e-04	26,13,18			1.00	0.07	0.93
278	0.0	0.01	0.0	0,18,0	8.47e-06	1.24e-04	5.20e-03	26,28,18	0.0	0	0.0	0.0	0.0
	1.87e-04	3.03e-04	0.0	13,24,0	8.27e-06	2.37e-04	2.30e-04	26,13,18			1.00	0.07	0.93
720	0.0	0.02	0.0	0,2,0	1.86e-05	5.80e-04	8.62e-03	24,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.12e-03	0.0	0,2,0	1.83e-05	1.27e-03	1.19e-03	24,28,2					
721	0.0	0.04	0.0	0,2,0	9.81e-05	7.77e-04	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	2.11e-04	3.12e-03	0.0	25,2,0	9.61e-05	1.27e-03	1.41e-03	18,28,2			1.00	0.07	0.93
722	0.0	0.06	0.0	0,2,0	9.81e-05	1.43e-03	0.02	18,38,2	0.0	0	0.0	0.0	0.0
	7.61e-04	1.18e-03	0.0	18,2,0	9.61e-05	1.16e-03	1.41e-03	18,28,2			1.00	0.07	0.93
723	0.0	0.06	0.0	0,2,0	2.80e-05	1.43e-03	0.02	8,38,2	0.0	0	0.0	0.0	0.0
	7.61e-04	1.95e-04	0.0	18,28,0	2.55e-05	1.10e-03	2.38e-04	8,2,38			1.00	0.07	0.93
724	0.0	0.01	0.0	0,18,0	8.47e-06	1.24e-04	5.20e-03	26,28,18	0.0	0	0.0	0.0	0.0
	1.87e-04	4.71e-04	0.0	13,18,0	8.27e-06	2.37e-04	2.30e-04	26,13,18			1.00	0.07	0.93
725	0.0	0.01	0.0	0,18,0	8.47e-06	1.24e-04	5.20e-03	26,28,18	0.0	0	0.0	0.0	0.0
	1.87e-04	4.71e-04	0.0	13,18,0	8.27e-06	2.37e-04	2.30e-04	26,13,18			1.00	0.07	0.93
1092	0.0	0.02	0.0	0,2,0	3.02e-05	3.75e-04	8.03e-03	18,38,2	0.0	0	0.0	0.0	0.0
	4.60e-04	3.12e-03	0.0	10,2,0	2.96e-05	2.12e-03	1.19e-03	18,38,2			1.00	0.07	0.93
1093	0.0	0.04	0.0	0,2,0	1.61e-04	8.68e-04	0.01	18,28,2	0.0	0	0.0	0.0	0.0
	8.82e-04	3.12e-03	0.0	14,2,0	1.58e-04	2.19e-03	1.63e-03	18,8,38			1.00	0.07	0.93
1094	0.0	0.05	0.0	0,2,0	1.61e-04	1.43e-03	0.02	18,38,2	0.0	0	0.0	0.0	0.0
	3.11e-03	1.18e-03	0.0	8,2,0	1.58e-04	5.40e-03	1.63e-03	18,38,38			1.00	0.07	0.93
1095	0.0	0.05	0.0	0,2,0	2.80e-05	1.43e-03	0.02	8,38,2	0.0	0	0.0	0.0	0.0
	3.11e-03	7.82e-04	0.0	8,26,0	2.55e-05	5.40e-03	5.65e-04	8,38,38			1.00	0.07	0.93
1096	0.0	0.01	0.0	0,18,0	2.53e-05	7.89e-05	4.82e-03	8,28,18	0.0	0	0.0	0.0	0.0
	7.16e-06	2.23e-03	0.0	13,38,0	2.50e-05	2.40e-04	8.26e-04	8,46,38			1.00	0.07	0.93
1097	0.0	0.01	0.0	0,18,0	2.53e-05	7.89e-05	4.82e-03	8,28,18	0.0	0	0.0	0.0	0.0
	7.16e-06	2.23e-03	0.0	13,38,0	2.50e-05	2.40e-04	8.26e-04	8,46,38			1.00	0.07	0.93
1480	0.0	0.02	0.0	0,2,0	5.32e-05	3.75e-04	6.70e-03	18,38,2	0.0	0	0.0	0.0	0.0
	1.79e-03	2.10e-03	0.0	12,18,0	5.24e-05	2.57e-03	8.04e-04	18,12,18			1.00	0.07	0.93
1481	0.0	0.03	0.0	0,2,0	2.79e-04	8.68e-04	0.01	18,28,2	0.0	0	0.0	0.0	0.0
	3.02e-03	2.10e-03	0.0	8,18,0	2.78e-04	7.89e-03	5.14e-03	18,2,2			1.00	0.07	0.93
1482	0.0	0.04	0.0	0,2,0	5.45e-05	1.41e-03	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	3.11e-03	2.03e-03	0.0	8,26,0	5.76e-05	0.01	0.01	8,38,38			1.00	0.07	0.93
1483	0.0	3.17e-03	0.0	0,2,0	1.14e-04	4.73e-04	1.69e-03	8,28,2	0.0	0	0.0	0.0	0.0
	2.76e-03	3.79e-03	0.0	12,18,0	1.13e-04	4.60e-03	1.18e-03	8,8,18			1.00	0.07	0.93
1484	0.0	0.01	0.0	0,2,0	1.14e-04	8.00e-05	4.73e-03	8,33,2	0.0	0	0.0	0.0	0.0
	2.39e-04	4.53e-03	0.0	13,18,0	1.13e-04	3.01e-04	1.36e-03	8,13,18			1.00	0.07	0.93
1485	0.0	0.01	0.0	0,2,0	2.97e-05	4.79e-05	4.73e-03	8,33,2	0.0	0	0.0	0.0	0.0
	0.0	4.53e-03	0.0	0,18,0	2.94e-05	2.40e-04	1.36e-03	8,46,18					
1620	0.0	0.04	0.0	0,2,0	2.79e-04	1.41e-03	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	3.11e-03	1.06e-03	0.0	8,25,0	2.78e-04	0.01	0.01	18,38,38			1.00	0.07	0.93
2115	0.0	0.01	0.0	0,2,0	5.34e-05	3.75e-04	4.87e-03	18,38,2	0.0	0	0.0	0.0	0.0
	3.11e-03	1.02e-03	0.0	38,25,0	5.31e-05	4.90e-03	8.16e-04	18,38,28			1.00	0.07	0.93
2116	0.0	0.02	0.0	0,2,0	2.79e-04	6.75e-04	7.73e-03	18,46,2	0.0	0	0.0	0.0	0.0
	3.11e-03	1.22e-03	0.0	38,18,0	2.78e-04	7.89e-03	5.14e-03	18,2,2			1.00	0.07	0.93
2117	0.0	0.02	0.0	0,2,0	2.79e-04	1.13e-03	8.24e-03	18,38,28	0.0	0	0.0	0.0	0.0
	3.02e-03	2.04e-03	0.0	8,28,0	2.78e-04	0.01	0.01	18,38,38			1.00	0.07	0.93
2118	0.0	0.02	0.0	0,2,0	1.87e-04	1.13e-03	8.24e-03	2,38,28	0.0	0	0.0	0.0	0.0
	2.88e-03	2.04e-03	0.0	8,28,0	1.86e-04	0.01	0.01	2,38,38			1.00	0.07	0.93
2119	0.0	3.46e-03	0.0	0,2,0	1.26e-04	4.73e-04	1.69e-03	8,28,2	0.0	0	0.0	0.0	0.0
	2.76e-03	3.79e-03	0.0	12,18,0	1.26e-04	4.60e-03	1.18e-03	8,8,18			1.00	0.07	0.93
2120	0.0	9.36e-03	0.0	0,2,0	1.26e-04	8.00e-05	3.35e-03	8,33,2	0.0	0	0.0	0.0	0.0
	6.97e-04	4.53e-03	0.0	13,18,0	1.26e-04	8.49e-04	1.36e-03	8,13,18			1.00	0.07	0.93
2121	0.0	9.36e-03	0.0	0,2,0	6.53e-05	5.93e-05	3.35e-03	8,33,2	0.0	0	0.0	0.0	0.0
	6.97e-04	4.53e-03	0.0	13,18,0	6.47e-05	8.49e-04	1.36e-03	8,13,18			1.00	0.07	0.93
2876	0.0	7.79e-03	0.0	0,2,0	5.34e-05	2.85e-04	3.10e-03	18,28,2	0.0	0	0.0	0.0	0.0
	3.11e-03	6.07e-04	0.0	38,25,0	5.31e-05	4.90e-03	8.16e-04	18,38,28			1.00	0.07	0.93
2877	0.0	0.01	0.0	0,2,0	2.51e-04	2.85e-04	3.86e-03	18,28,2	0.0	0	0.0	0.0	0.0
	3.11e-03	1.22e-03	0.0	38,18,0	2.50e-04	4.90e-03	2.47e-03	18,38,38			1.00	0.07	0.93
2878	0.0	0.01	0.0	0,2,0	2.51e-04	1.13e-03	5.32e-03	18,38,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2879	1.98e-03	2.04e-03	0.0	38,28,0	2.50e-04	4.30e-03	4.57e-03	18,38,38	0.0	0	1.00	0.07	0.93
	0.0	0.01	0.0	0,2,0	1.87e-04	1.13e-03	5.32e-03	2,38,2	0.0	0	0.0	0.0	0.0
2880	8.16e-04	2.04e-03	0.0	13,28,0	1.86e-04	4.30e-03	4.57e-03	2,38,38	0.0	0	1.00	0.07	0.93
	0.0	3.46e-03	0.0	0,2,0	1.26e-04	3.91e-04	1.68e-03	8,28,2	0.0	0	0.0	0.0	0.0
2881	5.20e-04	2.53e-03	0.0	13,18,0	1.26e-04	7.67e-04	1.11e-03	8,13,28	0.0	0	1.00	0.07	0.93
	0.0	5.17e-03	0.0	0,2,0	1.26e-04	6.93e-05	1.88e-03	8,34,2	0.0	0	0.0	0.0	0.0
2882	6.97e-04	2.65e-03	0.0	13,18,0	1.26e-04	8.49e-04	8.68e-04	8,13,18	0.0	0	1.00	0.07	0.93
	0.0	5.17e-03	0.0	0,2,0	6.53e-05	5.93e-05	1.88e-03	8,33,2	0.0	0	0.0	0.0	0.0
	6.97e-04	2.65e-03	0.0	13,18,0	6.47e-05	8.49e-04	8.68e-04	8,13,18	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	3.11e-03	0.06	0.0		2.79e-04	0.01	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
71	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		daN			daN			daN	daN cm	
ok	0.08	951.8	46	0.23	388.2	2	0.05	-3947.0	-8.054e+04	1

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
226	1.71e-03	0.01	0.0	13,2,0	5.54e-04	0.01	0.02	14,13,12	0.0	0	0.96	0.03	0.97
	0.01	9.46e-03	0.0	13,12,0	3.48e-04	0.03	0.02	14,13,12	0.0	0	1.00	0.07	0.93
288	8.37e-03	0.04	0.0	13,8,0	5.54e-04	0.03	0.04	14,13,12	0.0	0	0.96	0.03	0.97
	0.01	9.46e-03	0.0	12,12,0	3.48e-04	0.03	0.02	14,12,12	0.0	0	1.00	0.07	0.93
292	0.01	0.04	0.0	13,8,0	3.60e-04	0.04	0.05	11,13,12	0.0	0	0.96	0.03	0.97
	0.01	9.08e-03	0.0	12,13,0	2.06e-04	0.03	0.01	11,12,13	0.0	0	1.00	0.07	0.93
296	0.02	0.04	0.0	13,8,0	1.79e-04	0.04	0.05	11,13,12	0.0	0	0.96	0.03	0.97
	0.01	9.08e-03	0.0	12,13,0	7.78e-05	0.03	7.81e-03	11,12,13	0.0	0	1.00	0.07	0.93
300	0.02	0.04	0.0	13,8,0	1.00e-04	0.05	0.05	12,13,12	0.0	0	0.96	0.03	0.97
	9.76e-03	7.11e-03	0.0	12,13,0	5.02e-05	0.02	3.66e-03	46,12,13	0.0	0	1.00	0.07	0.93
308	0.02	0.04	0.0	13,12,0	9.55e-05	0.05	0.05	12,13,12	0.0	0	0.96	0.03	0.97
	7.14e-03	5.22e-03	0.0	12,13,0	4.86e-05	0.02	2.57e-03	46,12,13	0.0	0	1.00	0.07	0.93
316	0.02	0.04	0.0	13,12,0	1.05e-04	0.05	0.05	11,13,12	0.0	0	0.96	0.03	0.97
	5.92e-03	4.38e-03	0.0	11,14,0	4.83e-05	0.01	4.11e-03	46,11,14	0.0	0	1.00	0.07	0.93
324	0.02	0.04	0.0	13,12,0	1.05e-04	0.04	0.05	11,13,12	0.0	0	0.96	0.03	0.97
	5.92e-03	4.38e-03	0.0	11,14,0	4.83e-05	0.01	4.11e-03	46,11,14	0.0	0	1.00	0.07	0.93
694	0.01	0.02	0.0	13,8,0	5.54e-04	0.02	0.02	14,13,12	0.0	0	0.96	0.03	0.97
	0.02	0.02	0.0	13,12,0	3.48e-04	0.05	0.02	14,13,12	0.0	0	1.00	0.07	0.93
735	0.04	0.05	0.0	13,12,0	5.54e-04	0.04	0.04	14,13,12	0.0	0	0.96	0.03	0.97
	0.05	0.03	0.0	12,13,0	3.48e-04	0.10	0.02	14,12,12	0.0	0	1.00	0.07	0.93
737	0.06	0.07	0.0	13,12,0	3.60e-04	0.06	0.05	11,13,12	0.0	0	0.96	0.03	0.97
	0.05	0.03	0.0	12,13,0	2.06e-04	0.10	0.02	11,12,13	0.0	0	1.00	0.07	0.93
739	0.07	0.08	0.0	13,12,0	1.79e-04	0.08	0.06	11,13,12	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	12,13,0	7.78e-05	0.10	0.02	11,12,13	0.0	0	1.00	0.07	0.93
741	0.08	0.08	0.0	13,12,0	1.02e-04	0.08	0.06	12,13,12	0.0	0	0.96	0.03	0.97
	0.03	0.02	0.0	12,13,0	5.02e-05	0.08	0.01	46,12,13	0.0	0	1.00	0.07	0.93
747	0.08	0.08	0.0	13,12,0	1.02e-04	0.08	0.06	12,13,12	0.0	0	0.96	0.03	0.97
	0.02	0.02	0.0	12,13,0	4.86e-05	0.06	9.10e-03	46,12,13	0.0	0	1.00	0.07	0.93
753	0.08	0.08	0.0	13,12,0	1.05e-04	0.08	0.06	11,13,12	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	11,14,0	4.83e-05	0.05	7.37e-03	46,11,13	0.0	0	1.00	0.07	0.93
759	0.07	0.08	0.0	13,12,0	1.05e-04	0.08	0.06	11,13,12	0.0	0	0.96	0.03	0.97
	0.02	0.01	0.0	11,14,0	4.83e-05	0.05	7.37e-03	46,11,13	0.0	0	1.00	0.07	0.93
1050	0.02	0.03	0.0	13,12,0	3.55e-04	0.02	0.02	12,13,12	0.0	0	0.96	0.03	0.97
	0.03	0.02	0.0	14,11,0	2.32e-04	0.07	0.03	12,14,11	0.0	0	1.00	0.07	0.93
1107	0.06	0.07	0.0	13,12,0	3.55e-04	0.05	0.04	12,13,12	0.0	0	0.96	0.03	0.97
	0.07	0.05	0.0	12,13,0	2.32e-04	0.16	0.03	12,12,11	0.0	0	1.00	0.07	0.93
1111	0.09	0.09	0.0	13,12,0	2.35e-04	0.07	0.05	11,13,12	0.0	0	0.96	0.03	0.97
	0.07	0.05	0.0	12,13,0	1.29e-04	0.16	0.03	11,12,13	0.0	0	1.00	0.07	0.93
1115	0.11	0.10	0.0	13,12,0	1.30e-04	0.08	0.06	11,13,12	0.0	0	0.96	0.03	0.97
	0.07	0.05	0.0	12,13,0	4.67e-05	0.15	0.02	46,12,13	0.0	0	1.00	0.07	0.93
1119	0.12	0.11	0.0	13,12,0	1.02e-04	0.09	0.06	12,13,12	0.0	0	0.96	0.03	0.97
	0.05	0.04	0.0	12,13,0	4.55e-05	0.12	0.02	46,12,13	0.0	0	1.00	0.07	0.93
1127	0.12	0.11	0.0	13,12,0	1.02e-04	0.09	0.06	12,13,12	0.0	0	0.96	0.03	0.97
	0.04	0.03	0.0	12,13,0	4.50e-05	0.09	0.01	46,12,13	0.0	0	1.00	0.07	0.93
1135	0.11	0.10	0.0	13,12,0	1.01e-04	0.09	0.06	12,13,12	0.0	0	0.96	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1143	0.03	0.02	0.0	12,13,0	4.65e-05	0.07	0.01	46,12,13		1.00	0.07	0.93
	0.11	0.10	0.0	13,12,0	9.81e-05	0.08	0.06	11,13,12	0.0	0.96	0.03	0.97
	0.03	0.02	0.0	11,13,0	4.65e-05	0.07	0.01	46,11,13		1.00	0.07	0.93
1447	0.02	0.03	0.0	13,12,0	2.14e-04	0.02	0.02	12,13,12	0.0	0.96	0.03	0.97
	0.03	0.02	0.0	14,11,0	1.74e-04	0.07	0.03	12,14,11		1.00	0.07	0.93
1548	0.06	0.07	0.0	13,12,0	2.14e-04	0.05	0.04	12,13,12	0.0	0.96	0.03	0.97
	0.07	0.05	0.0	12,13,0	1.74e-04	0.16	0.03	12,12,11		1.00	0.07	0.93
1564	0.09	0.09	0.0	13,12,0	1.17e-04	0.07	0.05	12,13,12	0.0	0.96	0.03	0.97
	0.07	0.05	0.0	12,13,0	6.21e-05	0.16	0.03	13,12,13		1.00	0.07	0.93
1581	0.11	0.10	0.0	13,12,0	1.01e-04	0.08	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.07	0.05	0.0	12,13,0	3.82e-05	0.15	0.02	46,12,13		1.00	0.07	0.93
1622	0.12	0.11	0.0	13,12,0	9.19e-05	0.09	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.05	0.04	0.0	12,13,0	3.77e-05	0.12	0.02	45,12,13		1.00	0.07	0.93
1623	0.12	0.11	0.0	13,12,0	9.05e-05	0.09	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.04	0.03	0.0	12,13,0	3.83e-05	0.09	0.01	46,12,13		1.00	0.07	0.93
1624	0.11	0.10	0.0	13,12,0	8.96e-05	0.09	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.03	0.02	0.0	12,13,0	4.20e-05	0.07	0.01	46,12,13		1.00	0.07	0.93
1625	0.11	0.10	0.0	13,12,0	8.07e-05	0.08	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.03	0.02	0.0	11,13,0	4.20e-05	0.07	0.01	46,11,13		1.00	0.07	0.93
2057	0.02	0.03	0.0	13,8,0	7.77e-04	0.02	0.02	12,13,12	0.0	0.96	0.03	0.97
	0.03	0.02	0.0	12,13,0	5.46e-04	0.07	0.03	12,12,13		1.00	0.07	0.93
2133	0.05	0.06	0.0	13,12,0	7.77e-04	0.05	0.04	12,13,12	0.0	0.96	0.03	0.97
	0.06	0.05	0.0	12,13,0	5.46e-04	0.15	0.03	12,12,13		1.00	0.07	0.93
2137	0.08	0.08	0.0	13,12,0	3.43e-04	0.07	0.05	13,13,12	0.0	0.96	0.03	0.97
	0.06	0.05	0.0	12,13,0	2.00e-04	0.15	0.02	13,12,13		1.00	0.07	0.93
2145	0.09	0.09	0.0	13,12,0	2.08e-04	0.08	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.06	0.05	0.0	12,13,0	9.64e-05	0.14	0.02	12,12,13		1.00	0.07	0.93
2153	0.10	0.09	0.0	13,12,0	1.27e-04	0.09	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.05	0.03	0.0	12,13,0	3.49e-05	0.11	0.02	12,12,13		1.00	0.07	0.93
2161	0.10	0.09	0.0	13,12,0	1.01e-04	0.09	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.03	0.02	0.0	12,13,0	3.46e-05	0.07	0.01	45,12,13		1.00	0.07	0.93
2169	0.10	0.09	0.0	13,12,0	1.02e-04	0.09	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.02	0.02	0.0	12,13,0	3.79e-05	0.05	8.66e-03	46,12,13		1.00	0.07	0.93
2177	0.09	0.08	0.0	13,12,0	1.02e-04	0.08	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.02	0.02	0.0	11,14,0	3.79e-05	0.05	7.80e-03	46,11,14		1.00	0.07	0.93
2625	0.03	0.04	0.0	13,12,0	1.02e-04	0.05	0.05	12,13,12	0.0	0.96	0.03	0.97
	4.17e-03	4.19e-03	0.0	14,11,0	3.69e-05	0.01	5.90e-03	46,14,11		1.00	0.07	0.93
2641	0.03	0.04	0.0	13,12,0	1.02e-04	0.06	0.05	12,13,12	0.0	0.96	0.03	0.97
	7.09e-03	6.08e-03	0.0	12,13,0	3.69e-05	0.02	5.90e-03	46,12,11		1.00	0.07	0.93
2658	0.04	0.04	0.0	13,12,0	1.01e-04	0.06	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.01	9.96e-03	0.0	12,13,0	3.34e-05	0.03	4.96e-03	45,12,13		1.00	0.07	0.93
2782	0.04	0.05	0.0	13,12,0	1.27e-04	0.06	0.06	12,13,12	0.0	0.96	0.03	0.97
	0.02	0.02	0.0	12,13,0	3.49e-05	0.05	7.90e-03	12,12,13		1.00	0.07	0.93
2791	0.04	0.05	0.0	13,12,0	2.08e-04	0.06	0.05	12,13,12	0.0	0.96	0.03	0.97
	0.03	0.02	0.0	12,13,0	9.64e-05	0.07	0.01	12,12,13		1.00	0.07	0.93
2799	0.03	0.04	0.0	13,8,0	3.43e-04	0.05	0.05	13,13,12	0.0	0.96	0.03	0.97
	0.03	0.03	0.0	14,11,0	2.00e-04	0.08	0.01	13,14,11		1.00	0.07	0.93
2805	0.02	0.04	0.0	13,8,0	7.77e-04	0.03	0.03	12,13,12	0.0	0.96	0.03	0.97
	0.03	0.03	0.0	14,11,0	5.46e-04	0.08	0.03	12,14,12		1.00	0.07	0.93
2818	4.97e-03	0.02	0.0	13,8,0	7.77e-04	0.02	0.02	12,13,12	0.0	0.96	0.03	0.97
	0.02	0.01	0.0	13,12,0	5.46e-04	0.04	0.03	12,13,12		1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26			
	0.12	0.11	0.0		7.77e-04	0.16	0.06		0.0			

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
72	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.04	-133.8	24	0.05	307.9	8	0.08	-1426.5	5.545e+04	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
48	0.0	0.01	0.0	0,38,0	5.47e-05	9.73e-04	5.51e-03	35,35,38	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	34,35,0	4.12e-05	0.04	0.02	35,34,34			1.00	0.07	0.93
49	6.24e-03	0.01	0.0	35,38,0	1.73e-04	0.01	0.02	34,35,34	0.0	0	0.94	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



50	0.02	0.01	0.0	34,35,0	1.05e-04	0.04	0.02	34,34,34			1.00	0.07	0.93
	0.02	0.02	0.0	35,34,0	3.10e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	9.88e-03	7.18e-03	0.0	36,33,0	1.82e-04	0.02	0.02	34,36,34			1.00	0.07	0.93
51	0.02	0.02	0.0	35,34,0	3.10e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	9.88e-03	7.18e-03	0.0	36,33,0	1.82e-04	0.02	0.02	34,36,34			1.00	0.07	0.93
517	3.37e-03	0.01	0.0	35,38,0	5.47e-05	1.19e-03	5.89e-03	35,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.04	0.0	34,34,0	4.12e-05	0.13	0.02	35,34,34			1.00	0.07	0.93
518	0.02	0.02	0.0	35,34,0	1.73e-04	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.04	0.0	34,34,0	1.05e-04	0.13	0.02	34,34,34			1.00	0.07	0.93
519	0.05	0.04	0.0	35,34,0	3.10e-04	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	1.82e-04	0.06	0.02	34,34,34			1.00	0.07	0.93
520	0.05	0.04	0.0	35,34,0	3.10e-04	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	35,35,0	1.82e-04	0.03	0.02	34,35,34			1.00	0.07	0.93
875	4.55e-03	0.01	0.0	35,34,0	2.31e-05	2.69e-03	5.89e-03	35,35,34	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	34,34,0	2.59e-05	0.16	0.03	35,34,34			1.00	0.07	0.93
876	0.03	0.03	0.0	35,34,0	7.82e-05	0.02	0.02	33,35,34	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	34,34,0	4.69e-05	0.16	0.03	33,34,34			1.00	0.07	0.93
877	0.06	0.05	0.0	35,34,0	1.17e-04	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	6.72e-05	0.08	0.02	34,34,35			1.00	0.07	0.93
878	0.06	0.05	0.0	35,34,0	1.17e-04	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,35,0	6.72e-05	0.04	0.02	34,35,35			1.00	0.07	0.93
1286	4.55e-03	0.01	0.0	35,34,0	4.58e-05	2.69e-03	5.87e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	34,34,0	3.64e-05	0.16	0.03	34,34,34			1.00	0.07	0.93
1287	0.03	0.03	0.0	35,34,0	9.14e-05	0.02	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	34,34,0	5.28e-05	0.16	0.03	35,34,34			1.00	0.07	0.93
1288	0.06	0.05	0.0	35,34,0	1.68e-04	0.05	0.03	33,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	8.82e-05	0.08	0.02	33,34,35			1.00	0.07	0.93
1289	0.06	0.05	0.0	35,34,0	1.68e-04	0.05	0.03	33,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,35,0	8.82e-05	0.04	0.02	33,35,35			1.00	0.07	0.93
1777	4.95e-03	7.75e-03	0.0	35,34,0	6.00e-05	9.43e-03	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.04	0.03	0.0	34,35,0	4.21e-05	0.09	0.02	28,34,35			1.00	0.07	0.93
1778	0.02	0.01	0.0	35,34,0	9.35e-05	0.02	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	0.04	0.03	0.0	34,35,0	5.28e-05	0.09	0.02	35,34,35			1.00	0.07	0.93
1779	0.04	0.03	0.0	35,34,0	1.68e-04	0.03	0.03	33,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	34,34,0	8.82e-05	0.04	8.17e-03	33,34,34			1.00	0.07	0.93
1780	0.04	0.03	0.0	35,34,0	1.68e-04	0.03	0.03	33,35,34	0.0	0	0.94	0.03	0.97
	0.01	7.88e-03	0.0	34,35,0	8.82e-05	0.02	8.17e-03	33,34,34			1.00	0.07	0.93
2383	4.95e-03	7.75e-03	0.0	35,34,0	6.00e-05	9.43e-03	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	8.29e-03	6.58e-03	0.0	36,35,0	4.21e-05	0.02	3.32e-03	28,36,35			1.00	0.07	0.93
2384	0.02	0.01	0.0	35,34,0	9.35e-05	0.02	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	8.29e-03	6.58e-03	0.0	36,35,0	5.19e-05	0.02	6.61e-03	35,36,35			1.00	0.07	0.93
2385	0.04	0.03	0.0	35,34,0	1.32e-04	0.03	0.02	33,35,34	0.0	0	0.94	0.03	0.97
	9.78e-03	7.88e-03	0.0	36,35,0	7.65e-05	0.02	6.61e-03	33,36,35			1.00	0.07	0.93
2386	0.04	0.03	0.0	35,34,0	1.32e-04	0.03	0.02	33,35,34	0.0	0	0.94	0.03	0.97
	9.78e-03	7.88e-03	0.0	36,35,0	7.65e-05	0.02	3.97e-03	33,36,35			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.07	0.05	0.0		3.10e-04	0.16	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
73	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb			
ok	5.60e-03	-53.3	24	0.01	-159.1	24	6.59e-03	-94.8	1.011e+04	24			
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2317	0.03	0.03	0.0	45,44,0	1.80e-03	0.06	0.08	44,45,44	0.0	0	0.15	0.18	0.82
	0.01	0.02	0.0	46,44,0	4.53e-04	0.04	0.02	44,46,44			1.00	0.07	0.93
2318	0.03	0.03	0.0	45,44,0	1.80e-03	0.06	0.08	44,45,44	0.0	0	0.15	0.18	0.82
	0.02	0.02	0.0	44,44,0	4.53e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2319	5.88e-03	5.06e-03	0.0	45,44,0	6.90e-04	0.01	0.02	44,44,44	0.0	0	0.15	0.18	0.82
	0.02	0.01	0.0	44,46,0	1.94e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2320	5.12e-03	4.15e-03	0.0	43,46,0	2.52e-04	9.58e-03	3.99e-03	44,43,45	0.0	0	0.15	0.18	0.82
	0.01	5.21e-03	0.0	43,46,0	6.60e-05	0.03	4.37e-03	44,43,46			1.00	0.07	0.93
2321	5.19e-03	4.20e-03	0.0	44,46,0	3.45e-05	9.69e-03	4.03e-03	44,44,46	0.0	0	0.15	0.18	0.82

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	0.01	5.45e-03	0.0	44,45,0	8.83e-06	0.03	3.23e-03	44,44,45			1.00	0.07	0.93
2322	5.19e-03	4.20e-03	0.0	44,46,0	2.49e-04	9.69e-03	4.03e-03	43,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.45e-03	0.0	44,45,0	6.44e-05	0.03	4.51e-03	43,44,45			1.00	0.07	0.93
2323	5.63e-03	4.81e-03	0.0	45,44,0	6.96e-04	0.01	0.02	44,45,44	0.0	0	0.15	0.18	0.82
	0.01	0.01	0.0	44,46,0	1.90e-04	0.03	0.02	44,44,46			1.00	0.07	0.93
2324	0.02	0.02	0.0	45,43,0	1.76e-03	0.05	0.07	43,45,45	0.0	0	0.15	0.18	0.82
	0.01	0.01	0.0	44,46,0	4.47e-04	0.03	0.02	43,44,46			1.00	0.07	0.93
2325	0.02	0.02	0.0	45,43,0	1.76e-03	0.05	0.07	43,45,45	0.0	0	0.15	0.18	0.82
	4.52e-03	9.11e-03	0.0	45,43,0	4.47e-04	0.01	6.06e-03	43,45,44			1.00	0.07	0.93
2426	0.03	0.03	0.0	45,44,0	1.80e-03	0.06	0.08	44,45,44	0.0	0	0.15	0.18	0.82
	0.01	0.02	0.0	46,44,0	4.53e-04	0.04	0.02	44,46,44			1.00	0.07	0.93
2427	0.03	0.03	0.0	45,44,0	1.80e-03	0.06	0.08	44,45,44	0.0	0	0.15	0.18	0.82
	0.02	0.02	0.0	44,44,0	4.53e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2428	5.88e-03	5.06e-03	0.0	45,44,0	6.90e-04	0.01	0.02	44,44,44	0.0	0	0.15	0.18	0.82
	0.02	0.01	0.0	44,46,0	1.94e-04	0.04	0.02	44,44,44			1.00	0.07	0.93
2429	5.12e-03	4.15e-03	0.0	43,46,0	2.52e-04	9.58e-03	3.99e-03	44,43,45	0.0	0	0.15	0.18	0.82
	0.01	5.21e-03	0.0	43,46,0	6.60e-05	0.03	4.37e-03	44,43,46			1.00	0.07	0.93
2430	5.19e-03	4.20e-03	0.0	44,46,0	3.45e-05	9.69e-03	4.03e-03	44,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.45e-03	0.0	44,45,0	8.83e-06	0.03	3.23e-03	44,44,45			1.00	0.07	0.93
2431	5.19e-03	4.20e-03	0.0	44,46,0	2.49e-04	9.69e-03	4.03e-03	43,44,46	0.0	0	0.15	0.18	0.82
	0.01	5.45e-03	0.0	44,45,0	6.44e-05	0.03	4.51e-03	43,44,45			1.00	0.07	0.93
2432	5.63e-03	4.81e-03	0.0	45,44,0	6.96e-04	0.01	0.02	44,45,44	0.0	0	0.15	0.18	0.82
	0.01	0.01	0.0	44,46,0	1.90e-04	0.03	0.02	44,44,46			1.00	0.07	0.93
2433	0.02	0.02	0.0	45,43,0	1.76e-03	0.05	0.07	43,45,45	0.0	0	0.15	0.18	0.82
	0.01	0.01	0.0	44,46,0	4.47e-04	0.03	0.02	43,44,46			1.00	0.07	0.93
2434	0.02	0.02	0.0	45,43,0	1.76e-03	0.05	0.07	43,45,45	0.0	0	0.15	0.18	0.82
	4.52e-03	9.11e-03	0.0	45,43,0	4.47e-04	0.01	6.06e-03	43,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.03	0.0		1.80e-03	0.06	0.08		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
74	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.01	230.1	12	0.03	-472.7	28	0.03	-2512.3	1.021e+05	40

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
33	3.80e-03	0.02	0.0	35,38,0	2.90e-04	0.01	0.01	35,35,34	0.0	0	0.94	0.03	0.97
	9.39e-04	8.25e-04	0.0	35,44,0	1.82e-04	0.01	0.01	35,35,34			1.00	0.07	0.93
34	0.01	0.02	0.0	35,38,0	3.01e-04	0.03	0.03	35,35,34	0.0	0	0.94	0.03	0.97
	1.67e-03	1.05e-03	0.0	35,44,0	1.82e-04	0.01	0.01	35,35,34			1.00	0.07	0.93
35	0.02	0.02	0.0	35,34,0	3.42e-04	0.05	0.04	35,35,34	0.0	0	0.94	0.03	0.97
	7.47e-03	5.35e-03	0.0	35,34,0	1.92e-04	0.03	0.02	35,35,34			1.00	0.07	0.93
36	0.02	0.02	0.0	35,34,0	3.42e-04	0.05	0.04	35,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	1.92e-04	0.06	0.02	35,35,34			1.00	0.07	0.93
37	2.24e-03	2.31e-03	0.0	35,34,0	7.27e-05	2.19e-03	2.39e-03	35,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	4.36e-05	0.07	0.01	35,35,34			1.00	0.07	0.93
38	2.40e-03	2.89e-03	0.0	35,34,0	3.96e-04	4.97e-03	4.81e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	2.39e-04	0.07	0.01	34,35,34			1.00	0.07	0.93
39	0.01	0.02	0.0	35,34,0	3.96e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	2.39e-04	0.04	0.02	34,33,34			1.00	0.07	0.93
40	0.01	0.02	0.0	35,34,0	2.53e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,34,0	1.50e-04	0.05	0.02	34,34,34			1.00	0.07	0.93
41	0.0	0.01	0.0	0,38,0	6.93e-05	6.62e-04	5.15e-03	34,35,38	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	34,34,0	5.10e-05	0.05	0.02	34,34,34			1.00	0.07	0.93
502	0.01	0.02	0.0	35,38,0	2.90e-04	0.01	0.01	35,35,34	0.0	0	0.94	0.03	0.97
	9.39e-04	8.25e-04	0.0	35,44,0	1.82e-04	0.01	0.01	35,35,34			1.00	0.07	0.93
503	0.04	0.03	0.0	35,34,0	3.01e-04	0.03	0.03	35,35,34	0.0	0	0.94	0.03	0.97
	3.07e-03	2.11e-03	0.0	35,36,0	1.82e-04	0.01	0.01	35,35,34			1.00	0.07	0.93
504	0.06	0.05	0.0	35,34,0	3.42e-04	0.06	0.04	35,35,34	0.0	0	0.94	0.03	0.97
	7.47e-03	5.35e-03	0.0	35,34,0	1.92e-04	0.03	0.02	35,35,34			1.00	0.07	0.93
505	0.06	0.05	0.0	35,34,0	3.42e-04	0.06	0.04	35,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	1.92e-04	0.06	0.02	35,35,34			1.00	0.07	0.93
506	2.24e-03	2.31e-03	0.0	35,34,0	7.27e-05	2.19e-03	2.39e-03	35,35,34	0.0	0	0.94	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



507	0.03	0.02	0.0	35,34,0	4.36e-05	0.07	0.01	35,35,34	0.0	0	1.00	0.07	0.93
	2.40e-03	2.89e-03	0.0	35,34,0	3.96e-04	4.97e-03	4.81e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	2.39e-04	0.07	0.01	34,35,34	0.0	0	1.00	0.07	0.93
508	0.02	0.03	0.0	35,34,0	3.96e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	2.39e-04	0.05	0.03	34,35,34	0.0	0	1.00	0.07	0.93
509	0.02	0.03	0.0	35,34,0	2.53e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.05	0.0	34,34,0	1.50e-04	0.15	0.03	34,34,34	0.0	0	1.00	0.07	0.93
510	4.84e-03	0.01	0.0	35,38,0	6.93e-05	3.21e-03	6.28e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.05	0.0	34,34,0	5.10e-05	0.15	0.03	34,34,34	0.0	0	1.00	0.07	0.93
862	0.01	0.02	0.0	35,38,0	1.33e-04	0.01	0.01	35,35,34	0.0	0	0.94	0.03	0.97
	2.92e-03	3.05e-03	0.0	34,28,0	8.40e-05	7.66e-03	6.79e-03	35,34,34	0.0	0	1.00	0.07	0.93
863	0.04	0.03	0.0	35,34,0	1.33e-04	0.03	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	3.07e-03	3.05e-03	0.0	35,28,0	8.40e-05	7.66e-03	6.79e-03	35,34,34	0.0	0	1.00	0.07	0.93
864	0.07	0.05	0.0	35,34,0	1.43e-04	0.06	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	4.54e-03	3.50e-03	0.0	35,34,0	7.15e-05	0.01	8.66e-03	34,35,35	0.0	0	1.00	0.07	0.93
865	0.07	0.05	0.0	35,34,0	1.43e-04	0.06	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	4.54e-03	3.50e-03	0.0	35,34,0	7.15e-05	0.01	8.66e-03	34,35,35	0.0	0	1.00	0.07	0.93
866	0.02	0.03	0.0	35,34,0	3.03e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	5.16e-05	0.05	0.03	34,35,34	0.0	0	1.00	0.07	0.93
867	0.02	0.03	0.0	35,34,0	3.03e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	34,33,0	5.16e-05	0.15	0.03	34,34,34	0.0	0	1.00	0.07	0.93
868	4.84e-03	0.01	0.0	35,44,0	1.97e-05	3.21e-03	6.28e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	34,33,0	3.75e-05	0.15	0.03	34,34,34	0.0	0	1.00	0.07	0.93
1273	0.01	0.02	0.0	35,28,0	1.60e-04	0.01	0.02	34,34,28	0.0	0	0.94	0.03	0.97
	2.92e-03	6.77e-03	0.0	34,38,0	9.63e-05	0.01	0.01	34,38,38	0.0	0	1.00	0.07	0.93
1274	0.04	0.03	0.0	35,34,0	1.60e-04	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	7.60e-03	7.95e-03	0.0	35,34,0	9.63e-05	0.02	0.01	34,35,38	0.0	0	1.00	0.07	0.93
1275	0.07	0.05	0.0	35,34,0	2.44e-04	0.06	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	7.60e-03	7.95e-03	0.0	35,34,0	1.43e-04	0.02	0.01	34,35,35	0.0	0	1.00	0.07	0.93
1276	0.07	0.05	0.0	35,34,0	2.44e-04	0.06	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	7.35e-03	6.98e-03	0.0	35,34,0	1.43e-04	0.02	0.01	34,35,35	0.0	0	1.00	0.07	0.93
1277	0.01	0.02	0.0	35,34,0	6.26e-05	0.01	9.83e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	34,33,0	3.97e-05	0.04	0.02	34,34,34	0.0	0	1.00	0.07	0.93
1278	0.01	0.02	0.0	35,34,0	6.26e-05	0.01	9.83e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	34,33,0	3.97e-05	0.15	0.03	34,34,34	0.0	0	1.00	0.07	0.93
1279	2.53e-03	9.86e-03	0.0	35,34,0	4.31e-05	9.57e-04	4.64e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.07	0.05	0.0	34,33,0	3.75e-05	0.15	0.03	34,34,34	0.0	0	1.00	0.07	0.93
1762	0.01	0.02	0.0	28,28,0	1.78e-04	0.03	0.03	35,28,28	0.0	0	0.94	0.03	0.97
	3.36e-03	9.19e-03	0.0	2,28,0	1.10e-04	0.02	0.02	35,2,2	0.0	0	1.00	0.07	0.93
1763	0.02	0.02	0.0	35,28,0	1.80e-04	0.03	0.03	34,28,28	0.0	0	0.94	0.03	0.97
	7.60e-03	9.19e-03	0.0	35,28,0	1.10e-04	0.02	0.02	35,35,2	0.0	0	1.00	0.07	0.93
1764	0.04	0.03	0.0	35,34,0	2.44e-04	0.05	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	1.43e-04	0.05	0.01	34,35,34	0.0	0	1.00	0.07	0.93
1765	0.04	0.03	0.0	35,34,0	2.44e-04	0.05	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	1.43e-04	0.05	0.01	34,35,34	0.0	0	1.00	0.07	0.93
1766	0.02	0.01	0.0	35,34,0	1.75e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	9.74e-03	7.52e-03	0.0	33,34,0	9.75e-05	0.02	6.06e-03	34,33,36	0.0	0	1.00	0.07	0.93
1767	0.01	7.57e-03	0.0	36,33,0	3.11e-05	0.02	0.02	34,36,35	0.0	0	0.94	0.03	0.97
	9.74e-03	6.75e-03	0.0	33,36,0	1.81e-05	0.02	6.06e-03	34,33,36	0.0	0	1.00	0.07	0.93
1768	0.02	0.02	0.0	35,34,0	6.26e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	7.22e-03	5.39e-03	0.0	34,33,0	3.97e-05	0.02	7.53e-03	34,34,35	0.0	0	1.00	0.07	0.93
1769	0.02	0.02	0.0	35,34,0	6.26e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,35,0	3.97e-05	0.07	0.01	34,36,35	0.0	0	1.00	0.07	0.93
1770	0.01	0.01	0.0	35,34,0	4.31e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,35,0	3.61e-05	0.07	0.01	34,36,35	0.0	0	1.00	0.07	0.93
2368	0.01	0.01	0.0	28,28,0	1.78e-04	0.03	0.03	35,28,28	0.0	0	0.94	0.03	0.97
	3.36e-03	9.19e-03	0.0	2,28,0	1.10e-04	0.02	0.02	35,2,2	0.0	0	1.00	0.07	0.93
2369	0.02	0.02	0.0	35,34,0	1.80e-04	0.03	0.03	34,28,28	0.0	0	0.94	0.03	0.97
	3.38e-03	9.19e-03	0.0	45,28,0	1.10e-04	0.02	0.02	35,2,2	0.0	0	1.00	0.07	0.93
2370	0.04	0.03	0.0	35,34,0	1.80e-04	0.05	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	1.06e-04	0.05	0.01	34,35,34	0.0	0	1.00	0.07	0.93
2371	0.04	0.03	0.0	35,34,0	1.75e-04	0.05	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	9.75e-05	0.05	0.01	34,35,34	0.0	0	1.00	0.07	0.93
2372	0.02	0.01	0.0	35,34,0	1.75e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	9.74e-03	7.52e-03	0.0	33,34,0	9.75e-05	0.02	6.06e-03	34,33,36	0.0	0	1.00	0.07	0.93
2373	0.01	7.57e-03	0.0	36,33,0	3.11e-05	0.02	0.02	34,36,35	0.0	0	0.94	0.03	0.97
	9.74e-03	6.75e-03	0.0	33,36,0	1.81e-05	0.02	6.06e-03	34,33,36	0.0	0	1.00	0.07	0.93
2374	0.02	0.02	0.0	35,34,0	2.80e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	5.33e-03	3.50e-03	0.0	34,35,0	1.16e-05	0.01	6.62e-03	34,34,35	0.0	0	1.00	0.07	0.93
2375	0.02	0.02	0.0	35,34,0	4.27e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	5.33e-03	3.61e-03	0.0	34,35,0	3.08e-05	0.01	6.62e-03	28,34,35	0.0	0	1.00	0.07	0.93
2376	0.01	0.01	0.0	35,34,0	4.27e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	5.31e-03	3.61e-03	0.0	34,35,0	3.08e-05	0.01	2.39e-03	28,34,44	0.0	0	1.00	0.07	0.93

Nodo V. 127 V. 128 V. 545 V. 129 V. 130 V. 131 V. D.26

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



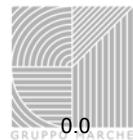
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Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
75	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.12	985.2	44	0.57	1172.7	2	0.12	-9101.9	-3.815e+05	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
267	0.0	0.03	0.0	0,2,0	8.69e-04	3.78e-05	9.78e-03	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.41e-03	0.0	0,2,0	8.68e-04	9.13e-05	1.04e-03	38,18,2			0.0	0.0	0.0
287	0.0	0.03	0.0	0,2,0	8.69e-04	3.78e-05	9.78e-03	38,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.41e-03	0.0	0,2,0	8.68e-04	9.13e-05	1.04e-03	38,18,2			0.0	0.0	0.0
305	0.0	0.07	0.0	0,2,0	3.23e-05	3.57e-06	0.02	28,8,2	0.0	0	0.0	0.0	0.0
	1.83e-04	5.10e-04	0.0	35,44,0	3.13e-05	2.16e-04	1.47e-04	45,35,44			1.00	0.07	0.93
314	0.0	0.07	0.0	0,2,0	4.48e-05	3.57e-06	0.02	45,8,2	0.0	0	0.0	0.0	0.0
	1.83e-04	7.57e-04	0.0	35,2,0	4.47e-05	2.16e-04	2.20e-04	45,35,2			1.00	0.07	0.93
322	0.0	0.04	0.0	0,2,0	4.48e-05	1.45e-06	0.02	45,8,2	0.0	0	0.0	0.0	0.0
	0.0	7.57e-04	0.0	0,2,0	4.47e-05	6.42e-06	2.20e-04	45,18,2			0.0	0.0	0.0
714	0.0	0.04	0.0	0,2,0	8.69e-04	3.78e-05	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	9.30e-05	3.41e-03	0.0	45,2,0	8.68e-04	1.19e-04	1.04e-03	38,45,2			1.00	0.07	0.93
734	0.0	0.04	0.0	0,2,0	8.69e-04	3.78e-05	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	9.30e-05	3.41e-03	0.0	45,2,0	8.68e-04	1.19e-04	1.04e-03	38,45,2			1.00	0.07	0.93
744	0.0	0.07	0.0	0,2,0	5.84e-05	4.18e-06	0.02	28,8,2	0.0	0	0.0	0.0	0.0
	1.83e-04	1.09e-03	0.0	35,2,0	5.61e-05	2.16e-04	3.09e-04	28,35,2			1.00	0.07	0.93
751	0.0	0.07	0.0	0,2,0	5.84e-05	4.18e-06	0.02	28,8,2	0.0	0	0.0	0.0	0.0
	1.83e-04	1.86e-03	0.0	35,2,0	5.66e-05	2.16e-04	5.29e-04	45,35,2			1.00	0.07	0.93
757	0.0	0.04	0.0	0,2,0	5.66e-05	2.12e-06	0.02	45,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.86e-03	0.0	0,2,0	5.66e-05	6.42e-06	5.29e-04	45,18,2			0.0	0.0	0.0
1086	0.0	0.06	0.0	0,2,0	5.34e-04	1.01e-04	0.02	38,18,2	0.0	0	0.0	0.0	0.0
	9.30e-05	2.44e-03	0.0	45,38,0	5.33e-04	1.19e-04	6.96e-04	38,45,38			1.00	0.07	0.93
1106	0.0	0.06	0.0	0,2,0	5.34e-04	1.01e-04	0.02	38,18,2	0.0	0	0.0	0.0	0.0
	9.30e-05	2.44e-03	0.0	45,38,0	5.33e-04	1.19e-04	6.96e-04	38,45,38			1.00	0.07	0.93
1124	0.0	0.07	0.0	0,2,0	2.18e-04	4.18e-06	0.03	28,8,2	0.0	0	0.0	0.0	0.0
	3.56e-05	5.02e-03	0.0	45,28,0	2.16e-04	5.25e-05	1.42e-03	28,45,28			1.00	0.07	0.93
1133	0.0	0.07	0.0	0,2,0	2.18e-04	5.61e-06	0.03	28,2,2	0.0	0	0.0	0.0	0.0
	3.56e-05	5.06e-03	0.0	45,2,0	2.16e-04	5.25e-05	1.43e-03	28,45,2			1.00	0.07	0.93
1141	0.0	0.04	0.0	0,2,0	5.66e-05	5.61e-06	0.02	45,2,2	0.0	0	0.0	0.0	0.0
	0.0	5.06e-03	0.0	0,2,0	5.66e-05	9.18e-06	1.43e-03	45,2,2			0.0	0.0	0.0
1474	0.0	0.06	0.0	0,2,0	6.75e-04	1.01e-04	0.02	2,18,2	0.0	0	0.0	0.0	0.0
	8.39e-03	2.44e-03	0.0	28,38,0	6.74e-04	9.90e-03	6.96e-04	2,28,38			1.00	0.07	0.93
1492	0.0	0.06	0.0	0,2,0	1.37e-03	1.01e-04	0.02	38,18,2	0.0	0	0.0	0.0	0.0
	0.03	2.44e-03	0.0	2,38,0	1.37e-03	0.03	6.96e-04	38,2,38			1.00	0.07	0.93
1495	0.0	0.02	0.0	0,2,0	1.37e-03	1.63e-05	5.69e-03	38,26,2	0.0	0	0.0	0.0	0.0
	0.04	0.0	0.0	2,0,0	1.37e-03	0.04	2.12e-05	38,2,2			1.00	0.07	0.93
1499	0.0	0.02	0.0	0,2,0	1.51e-03	3.91e-06	5.79e-03	2,8,2	0.0	0	0.0	0.0	0.0
	0.04	0.0	0.0	2,0,0	1.50e-03	0.04	1.58e-05	2,2,12			1.00	0.07	0.93
1502	0.0	0.07	0.0	0,2,0	1.51e-03	5.71e-06	0.03	2,8,2	0.0	0	0.0	0.0	0.0
	0.02	5.02e-03	0.0	38,28,0	1.50e-03	0.03	1.42e-03	2,38,28			1.00	0.07	0.93
1507	0.0	0.07	0.0	0,2,0	4.58e-04	5.71e-06	0.03	2,8,2	0.0	0	0.0	0.0	0.0
	8.40e-03	5.06e-03	0.0	38,2,0	4.57e-04	9.90e-03	1.43e-03	2,38,2			1.00	0.07	0.93
1511	0.0	0.04	0.0	0,2,0	5.47e-05	5.61e-06	0.01	45,2,2	0.0	0	0.0	0.0	0.0
	7.19e-04	5.06e-03	0.0	44,2,0	5.46e-05	8.53e-04	1.43e-03	45,44,2			1.00	0.07	0.93
2109	0.0	0.04	0.0	0,2,0	1.16e-03	9.02e-05	0.02	2,18,2	0.0	0	0.0	0.0	0.0
	8.39e-03	1.36e-03	0.0	28,2,0	1.16e-03	9.90e-03	4.44e-04	2,28,2			1.00	0.07	0.93
2132	0.0	0.04	0.0	0,2,0	1.37e-03	9.02e-05	0.02	38,18,2	0.0	0	0.0	0.0	0.0
	0.03	3.64e-03	0.0	2,2,0	1.37e-03	0.03	1.04e-03	38,2,2			1.00	0.07	0.93
2143	0.0	0.03	0.0	0,2,0	1.37e-03	1.63e-05	9.75e-03	38,26,2	0.0	0	0.0	0.0	0.0
	0.04	3.64e-03	0.0	2,2,0	1.37e-03	0.04	1.04e-03	38,2,2			1.00	0.07	0.93
2151	0.0	0.03	0.0	0,2,0	1.54e-03	3.91e-06	9.79e-03	2,8,2	0.0	0	0.0	0.0	0.0
	0.04	2.09e-03	0.0	2,38,0	1.54e-03	0.04	5.97e-04	2,2,38			1.00	0.07	0.93
2158	0.0	0.05	0.0	0,2,0	1.54e-03	6.36e-06	0.02	2,18,2	0.0	0	0.0	0.0	0.0
	0.02	2.51e-04	0.0	38,35,0	1.54e-03	0.03	7.25e-05	2,38,35			1.00	0.07	0.93
2167	0.0	0.05	0.0	0,2,0	9.24e-04	7.50e-06	0.02	2,2,2	0.0	0	0.0	0.0	0.0
	8.90e-03	2.99e-04	0.0	2,35,0	9.23e-04	0.01	8.67e-05	2,2,35			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



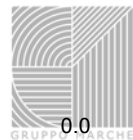
2175	0.0	0.03	0.0	0,2,0	1.05e-04	7.50e-06	0.01	28,2,2	0.0	0	0.0	0.0	0.0
	7.44e-03	2.99e-04	0.0	2,35,0	1.05e-04	8.77e-03	8.67e-05	28,2,35			1.00	0.07	0.93
2639	0.0	0.03	0.0	0,2,0	1.05e-04	7.50e-06	9.26e-03	28,2,2	0.0	0	0.0	0.0	0.0
	7.44e-03	0.0	0.0	2,0,0	1.05e-04	8.77e-03	3.55e-06	28,2,13			1.00	0.07	0.93
2655	0.0	0.03	0.0	0,2,0	9.24e-04	7.50e-06	0.01	2,2,2	0.0	0	0.0	0.0	0.0
	8.90e-03	0.0	0.0	2,0,0	9.23e-04	0.01	9.00e-06	2,2,18			1.00	0.07	0.93
2781	0.0	0.03	0.0	0,2,0	1.54e-03	6.36e-06	0.01	2,18,2	0.0	0	0.0	0.0	0.0
	8.90e-03	2.46e-04	0.0	2,45,0	1.54e-03	0.01	6.98e-05	2,2,45			1.00	0.07	0.93
2788	0.0	0.03	0.0	0,2,0	1.54e-03	2.48e-06	9.79e-03	2,11,2	0.0	0	0.0	0.0	0.0
	4.35e-03	2.09e-03	0.0	28,38,0	1.54e-03	5.13e-03	5.97e-04	2,28,38			1.00	0.07	0.93
2797	0.0	0.03	0.0	0,2,0	1.37e-03	1.44e-05	9.75e-03	2,18,2	0.0	0	0.0	0.0	0.0
	0.0	3.64e-03	0.0	0,2,0	1.37e-03	2.84e-05	1.04e-03	2,11,2			0.0	0.0	0.0
2809	0.0	0.03	0.0	0,2,0	1.37e-03	2.96e-05	9.75e-03	2,8,2	0.0	0	0.0	0.0	0.0
	7.05e-05	3.64e-03	0.0	45,2,0	1.37e-03	9.36e-05	1.04e-03	2,45,2			1.00	0.07	0.93
2870	0.0	0.03	0.0	0,2,0	1.16e-03	2.96e-05	9.29e-03	2,8,2	0.0	0	0.0	0.0	0.0
	7.05e-05	1.36e-03	0.0	45,2,0	1.16e-03	9.36e-05	4.44e-04	2,45,2			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.04	0.07	0.0		1.54e-03	0.04	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
76	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.10	1551.4	44	0.24	511.2	38	0.02	-6514.9	5.935e+04	46

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
257	0.0	0.02	0.0	0,2,0	7.16e-05	1.01e-05	5.94e-03	38,11,2	0.0	0	0.0	0.0	0.0
	1.46e-03	8.56e-05	0.0	38,35,0	7.14e-05	1.75e-03	1.76e-04	38,38,12			1.00	0.07	0.93
290	0.0	0.04	0.0	0,2,0	7.19e-05	3.70e-05	0.02	44,8,2	0.0	0	0.0	0.0	0.0
	3.63e-03	8.56e-05	0.0	38,35,0	7.14e-05	4.30e-03	1.76e-04	44,38,12			1.00	0.07	0.93
294	0.0	0.04	0.0	0,2,0	7.19e-05	3.70e-05	0.02	44,8,2	0.0	0	0.0	0.0	0.0
	3.63e-03	0.0	0.0	38,0,0	7.14e-05	4.30e-03	7.30e-05	44,38,12			1.00	0.07	0.93
298	0.0	0.04	0.0	0,2,0	7.18e-05	3.01e-05	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	1.18e-03	0.0	0.0	38,0,0	7.14e-05	1.41e-03	3.89e-05	44,38,8			1.00	0.07	0.93
302	0.0	0.03	0.0	0,2,0	6.70e-05	1.54e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	5.51e-04	0.0	0.0	38,0,0	6.68e-05	6.70e-04	1.47e-05	44,38,8			1.00	0.07	0.93
310	0.0	0.03	0.0	0,2,0	6.43e-05	1.98e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	2.55e-04	4.20e-06	0.0	38,36,0	6.41e-05	3.18e-04	9.05e-06	44,38,18			1.00	0.07	0.93
318	0.0	0.03	0.0	0,2,0	6.33e-05	1.98e-05	9.31e-03	44,2,2	0.0	0	0.0	0.0	0.0
	7.09e-05	4.20e-06	0.0	38,36,0	6.31e-05	1.07e-04	6.02e-06	44,38,18			1.00	0.07	0.93
433	0.0	0.03	0.0	0,2,0	7.16e-05	4.55e-05	9.04e-03	38,8,2	0.0	0	0.0	0.0	0.0
	1.87e-03	8.56e-05	0.0	2,35,0	7.14e-05	2.31e-03	1.76e-04	38,8,12			1.00	0.07	0.93
443	0.0	0.04	0.0	0,2,0	7.19e-05	4.55e-05	0.02	44,8,2	0.0	0	0.0	0.0	0.0
	3.63e-03	8.56e-05	0.0	38,35,0	7.14e-05	4.30e-03	1.76e-04	44,38,12			1.00	0.07	0.93
445	0.0	0.04	0.0	0,2,0	7.19e-05	3.83e-05	0.02	44,8,2	0.0	0	0.0	0.0	0.0
	3.63e-03	0.0	0.0	38,0,0	7.14e-05	4.30e-03	9.94e-05	44,38,12			1.00	0.07	0.93
447	0.0	0.04	0.0	0,2,0	7.18e-05	3.01e-05	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	2.45e-03	0.0	0.0	2,0,0	7.14e-05	2.99e-03	3.89e-05	44,2,8			1.00	0.07	0.93
449	0.0	0.03	0.0	0,2,0	6.70e-05	1.54e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.67e-03	0.0	0.0	2,0,0	6.68e-05	2.06e-03	1.47e-05	44,2,8			1.00	0.07	0.93
451	0.0	0.03	0.0	0,2,0	6.43e-05	1.98e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	9.87e-04	4.20e-06	0.0	2,36,0	6.41e-05	1.24e-03	2.24e-05	44,2,18			1.00	0.07	0.93
453	0.0	0.03	0.0	0,2,0	6.33e-05	1.98e-05	9.31e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.57e-04	4.20e-06	0.0	2,36,0	6.31e-05	6.49e-04	2.24e-05	44,2,18			1.00	0.07	0.93
1078	0.0	0.03	0.0	0,2,0	3.91e-05	1.69e-04	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	2.66e-03	0.0	0.0	38,0,0	3.88e-05	3.39e-03	2.08e-04	44,2,8			1.00	0.07	0.93
1109	0.0	0.04	0.0	0,2,0	3.91e-05	1.69e-04	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	3.52e-03	0.0	0.0	2,0,0	3.88e-05	4.44e-03	2.08e-04	44,2,8			1.00	0.07	0.93
1113	0.0	0.04	0.0	0,2,0	5.80e-05	3.83e-05	0.01	44,8,2	0.0	0	0.0	0.0	0.0
	3.52e-03	0.0	0.0	2,0,0	5.77e-05	4.44e-03	9.94e-05	44,2,12			1.00	0.07	0.93
1117	0.0	0.04	0.0	0,2,0	5.90e-05	8.65e-06	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	2.96e-03	0.0	0.0	2,0,0	5.87e-05	3.68e-03	3.58e-05	44,2,12			1.00	0.07	0.93
1121	0.0	0.03	0.0	0,2,0	5.90e-05	1.04e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	2.15e-03	4.10e-05	0.0	2,45,0	5.87e-05	2.66e-03	1.61e-05	44,2,45			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1129	0.0	0.03	0.0	0,2,0	5.95e-05	1.40e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.39e-03	7.82e-05	0.0	28,45,0	5.94e-05	1.74e-03	2.64e-05	44,28,18			1.00	0.07	0.93	0.93
1137	0.0	0.03	0.0	0,2,0	5.95e-05	1.40e-05	9.12e-03	44,2,2	0.0	0	0.0	0.0	0.0	0.0
	7.35e-04	7.82e-05	0.0	28,45,0	5.94e-05	1.00e-03	2.64e-05	44,28,18			1.00	0.07	0.93	0.93
1542	0.0	0.03	0.0	0,2,0	5.27e-05	2.01e-04	0.01	40,8,2	0.0	0	0.0	0.0	0.0	0.0
	2.66e-03	7.50e-05	0.0	38,13,0	5.21e-05	3.39e-03	2.08e-04	40,2,8			1.00	0.07	0.93	0.93
1551	0.0	0.04	0.0	0,2,0	5.27e-05	2.01e-04	0.01	40,8,2	0.0	0	0.0	0.0	0.0	0.0
	3.72e-03	7.50e-05	0.0	28,13,0	5.21e-05	4.59e-03	2.08e-04	40,8,8			1.00	0.07	0.93	0.93
1558	0.0	0.04	0.0	0,2,0	4.44e-05	1.12e-05	0.01	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	3.72e-03	1.58e-04	0.0	28,45,0	4.42e-05	4.59e-03	5.21e-05	44,8,45			1.00	0.07	0.93	0.93
1562	0.0	0.03	0.0	0,2,0	4.67e-05	6.78e-06	0.01	44,8,2	0.0	0	0.0	0.0	0.0	0.0
	3.17e-03	3.10e-04	0.0	28,45,0	4.65e-05	3.86e-03	9.26e-05	44,28,45			1.00	0.07	0.93	0.93
1566	0.0	0.03	0.0	0,2,0	4.84e-05	8.28e-06	0.01	44,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.33e-03	4.10e-04	0.0	28,45,0	4.82e-05	2.84e-03	1.19e-04	44,28,45			1.00	0.07	0.93	0.93
1570	0.0	0.03	0.0	0,2,0	5.14e-05	9.31e-06	9.98e-03	44,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.55e-03	4.71e-04	0.0	28,45,0	5.13e-05	1.91e-03	1.37e-04	44,28,43			1.00	0.07	0.93	0.93
1573	0.0	0.02	0.0	0,2,0	5.14e-05	9.31e-06	8.79e-03	44,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.36e-04	4.71e-04	0.0	28,45,0	5.13e-05	1.08e-03	1.37e-04	44,28,43			1.00	0.07	0.93	0.93
2098	0.0	0.03	0.0	0,2,0	9.72e-05	2.01e-04	0.01	40,8,2	0.0	0	0.0	0.0	0.0	0.0
	2.18e-03	1.10e-03	0.0	38,2,0	9.68e-05	2.71e-03	3.76e-04	40,38,2			1.00	0.07	0.93	0.93
2135	0.0	0.04	0.0	0,2,0	9.72e-05	2.01e-04	0.01	40,8,2	0.0	0	0.0	0.0	0.0	0.0
	3.72e-03	1.10e-03	0.0	28,2,0	9.68e-05	4.59e-03	3.76e-04	40,8,2			1.00	0.07	0.93	0.93
2139	0.0	0.04	0.0	0,2,0	3.50e-05	4.25e-05	0.01	46,12,2	0.0	0	0.0	0.0	0.0	0.0
	3.72e-03	7.21e-04	0.0	28,45,0	3.48e-05	4.59e-03	2.22e-04	46,8,43			1.00	0.07	0.93	0.93
2147	0.0	0.03	0.0	0,2,0	3.94e-05	1.99e-05	0.01	43,12,2	0.0	0	0.0	0.0	0.0	0.0
	3.17e-03	1.03e-03	0.0	28,45,0	3.94e-05	3.86e-03	2.92e-04	43,28,45			1.00	0.07	0.93	0.93
2155	0.0	0.03	0.0	0,2,0	4.28e-05	1.18e-05	0.01	43,8,2	0.0	0	0.0	0.0	0.0	0.0
	2.33e-03	1.20e-03	0.0	28,45,0	4.28e-05	2.84e-03	3.43e-04	43,28,45			1.00	0.07	0.93	0.93
2163	0.0	0.03	0.0	0,2,0	4.52e-05	1.93e-05	9.71e-03	43,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.64e-03	1.38e-03	0.0	28,43,0	4.51e-05	1.96e-03	3.90e-04	43,28,43			1.00	0.07	0.93	0.93
2171	0.0	0.02	0.0	0,2,0	4.52e-05	1.93e-05	8.43e-03	43,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.36e-03	1.38e-03	0.0	30,43,0	4.51e-05	1.61e-03	3.90e-04	43,30,43			1.00	0.07	0.93	0.93
2643	0.0	0.02	0.0	0,2,0	4.33e-05	1.93e-05	8.12e-03	43,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.36e-03	1.38e-03	0.0	30,43,0	4.32e-05	1.61e-03	3.90e-04	43,30,43			1.00	0.07	0.93	0.93
2660	0.0	0.03	0.0	0,2,0	4.33e-05	1.93e-05	9.43e-03	43,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.64e-03	1.38e-03	0.0	28,43,0	4.32e-05	1.96e-03	3.90e-04	43,28,43			1.00	0.07	0.93	0.93
2784	0.0	0.03	0.0	0,2,0	3.90e-05	1.18e-05	0.01	43,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.71e-03	1.20e-03	0.0	28,45,0	3.89e-05	2.06e-03	3.43e-04	43,28,45			1.00	0.07	0.93	0.93
2793	0.0	0.03	0.0	0,2,0	3.38e-05	1.99e-05	0.01	43,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.71e-03	1.03e-03	0.0	28,45,0	3.37e-05	2.06e-03	2.92e-04	43,28,45			1.00	0.07	0.93	0.93
2801	0.0	0.03	0.0	0,2,0	2.65e-05	4.25e-05	0.01	43,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.60e-03	7.21e-04	0.0	28,45,0	2.64e-05	1.93e-03	2.22e-04	43,28,43			1.00	0.07	0.93	0.93
2807	0.0	0.03	0.0	0,2,0	9.72e-05	4.25e-05	0.01	40,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.12e-03	1.10e-03	0.0	28,2,0	9.68e-05	1.47e-03	3.76e-04	40,28,2			1.00	0.07	0.93	0.93
2859	0.0	0.02	0.0	0,2,0	9.72e-05	2.54e-05	8.63e-03	40,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.10e-03	0.0	0,2,0	9.68e-05	8.91e-05	3.76e-04	40,8,2			0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	3.72e-03	0.04	0.0		9.72e-05	4.59e-03	0.02		0.0					

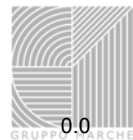
Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
77	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	-1527.1	34	0.15	-101.8	2	0.05	-3522.6	-1.388e+05	35

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
41	0.0	9.73e-03	0.0	0,38,0	1.44e-04	4.45e-05	3.52e-03	44,24,38	0.0	0	0.0	0.0	0.0
	6.87e-04	2.03e-03	0.0	45,34,0	1.44e-04	8.15e-04	5.98e-04	44,45,34			1.00	0.07	0.93
56	0.0	0.03	0.0	0,28,0	1.44e-04	4.45e-05	0.01	44,24,28	0.0	0	0.0	0.0	0.0
	1.72e-03	2.03e-03	0.0	44,34,0	1.44e-04	2.03e-03	5.98e-04	44,44,34			1.00	0.07	0.93
65	0.0	0.03	0.0	0,28,0	1.04e-04	2.81e-05	0.01	44,24,28	0.0	0	0.0	0.0	0.0
	1.72e-03	1.14e-03	0.0	44,35,0	1.04e-04	2.03e-03	3.23e-04	44,44,35			1.00	0.07	0.93
76	0.0	0.03	0.0	0,38,0	4.43e-05	5.19e-06	0.01	34,28,38	0.0	0	0.0	0.0	0.0
	5.35e-04	4.30e-04	0.0	34,45,0	4.41e-05	6.36e-04	1.22e-04	34,34,45			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)

RELAZIONE DI RESISTENZA AL FUOCO



84	0.0	0.03	0.0	0,38,0	5.83e-05	5.19e-06	0.01	34,28,38	0.0	0	0.0	0.0	0.0	0.0
	5.35e-04	4.30e-04	0.0	34,45,0	5.82e-05	6.36e-04	1.22e-04	34,34,45			1.00	0.07	0.93	
95	0.0	0.03	0.0	0,2,0	5.83e-05	1.68e-06	9.12e-03	34,24,2	0.0	0	0.0	0.0	0.0	0.0
	2.20e-04	4.18e-04	0.0	35,44,0	5.82e-05	2.62e-04	1.21e-04	34,35,44			1.00	0.07	0.93	
104	0.0	0.02	0.0	0,2,0	5.67e-05	2.65e-06	8.82e-03	34,11,2	0.0	0	0.0	0.0	0.0	0.0
	2.22e-04	4.52e-04	0.0	45,28,0	5.65e-05	2.61e-04	1.39e-04	34,45,28			1.00	0.07	0.93	
111	0.0	0.03	0.0	0,28,0	5.11e-05	4.40e-06	0.01	34,18,28	0.0	0	0.0	0.0	0.0	0.0
	5.12e-04	5.04e-04	0.0	45,34,0	5.09e-05	6.03e-04	1.52e-04	34,45,34			1.00	0.07	0.93	
117	0.0	0.03	0.0	0,28,0	3.51e-05	4.40e-06	0.01	34,18,28	0.0	0	0.0	0.0	0.0	0.0
	5.12e-04	5.04e-04	0.0	45,34,0	3.47e-05	6.03e-04	1.52e-04	34,45,34			1.00	0.07	0.93	
123	0.0	0.01	0.0	0,38,0	9.53e-05	2.99e-05	4.71e-03	28,18,38	0.0	0	0.0	0.0	0.0	0.0
	9.95e-05	8.00e-04	0.0	35,44,0	9.52e-05	1.23e-04	2.36e-04	28,35,44			1.00	0.07	0.93	
161	0.0	0.01	0.0	0,38,0	9.53e-05	2.99e-05	4.71e-03	28,18,38	0.0	0	0.0	0.0	0.0	0.0
	9.95e-05	8.00e-04	0.0	35,44,0	9.52e-05	1.23e-04	2.36e-04	28,35,44			1.00	0.07	0.93	
510	0.0	0.01	0.0	0,2,0	1.44e-04	4.45e-05	4.80e-03	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.39e-03	2.27e-03	0.0	45,34,0	1.44e-04	1.65e-03	6.54e-04	44,45,34			1.00	0.07	0.93	
525	0.0	0.03	0.0	0,28,0	1.44e-04	4.45e-05	0.01	44,24,28	0.0	0	0.0	0.0	0.0	0.0
	1.72e-03	2.27e-03	0.0	44,34,0	1.44e-04	2.03e-03	6.54e-04	44,44,34			1.00	0.07	0.93	
534	0.0	0.03	0.0	0,28,0	1.04e-04	2.81e-05	0.01	44,24,28	0.0	0	0.0	0.0	0.0	0.0
	1.72e-03	1.14e-03	0.0	44,35,0	1.04e-04	2.03e-03	3.23e-04	44,44,35			1.00	0.07	0.93	
545	0.0	0.03	0.0	0,38,0	4.43e-05	6.08e-06	0.01	34,28,38	0.0	0	0.0	0.0	0.0	0.0
	5.35e-04	4.30e-04	0.0	34,45,0	4.41e-05	6.36e-04	1.22e-04	34,34,45			1.00	0.07	0.93	
553	0.0	0.03	0.0	0,38,0	6.92e-05	6.08e-06	0.01	34,28,38	0.0	0	0.0	0.0	0.0	0.0
	5.35e-04	7.60e-04	0.0	34,38,0	6.91e-05	6.36e-04	2.16e-04	34,34,38			1.00	0.07	0.93	
564	0.0	0.03	0.0	0,2,0	6.92e-05	1.68e-06	9.12e-03	34,24,2	0.0	0	0.0	0.0	0.0	0.0
	2.20e-04	8.19e-04	0.0	35,2,0	6.91e-05	2.62e-04	2.33e-04	34,35,2			1.00	0.07	0.93	
573	0.0	0.02	0.0	0,2,0	6.37e-05	2.65e-06	8.82e-03	34,11,2	0.0	0	0.0	0.0	0.0	0.0
	2.22e-04	8.19e-04	0.0	45,2,0	6.35e-05	2.61e-04	2.33e-04	34,45,2			1.00	0.07	0.93	
580	0.0	0.03	0.0	0,28,0	5.42e-05	4.55e-06	0.01	34,18,28	0.0	0	0.0	0.0	0.0	0.0
	5.12e-04	7.61e-04	0.0	45,28,0	5.40e-05	6.03e-04	2.18e-04	34,45,28			1.00	0.07	0.93	
586	0.0	0.03	0.0	0,28,0	3.51e-05	4.55e-06	0.01	34,18,28	0.0	0	0.0	0.0	0.0	0.0
	5.12e-04	5.04e-04	0.0	45,34,0	3.47e-05	6.03e-04	1.52e-04	34,45,34			1.00	0.07	0.93	
592	0.0	0.02	0.0	0,2,0	9.53e-05	2.99e-05	7.29e-03	28,18,2	0.0	0	0.0	0.0	0.0	0.0
	4.17e-04	8.00e-04	0.0	2,44,0	9.52e-05	4.92e-04	2.36e-04	28,2,44			1.00	0.07	0.93	
629	0.0	0.02	0.0	0,2,0	9.53e-05	2.99e-05	7.29e-03	28,18,2	0.0	0	0.0	0.0	0.0	0.0
	4.17e-04	8.00e-04	0.0	2,44,0	9.52e-05	4.92e-04	2.36e-04	28,2,44			1.00	0.07	0.93	
868	0.0	0.01	0.0	0,2,0	1.19e-04	3.38e-05	5.09e-03	44,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.39e-03	2.32e-03	0.0	45,34,0	1.19e-04	1.65e-03	6.66e-04	44,45,34			1.00	0.07	0.93	
883	0.0	0.03	0.0	0,2,0	1.19e-04	3.38e-05	0.01	44,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.39e-03	2.32e-03	0.0	45,34,0	1.19e-04	1.65e-03	6.66e-04	44,45,34			1.00	0.07	0.93	
892	0.0	0.03	0.0	0,2,0	5.44e-05	2.37e-05	0.01	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	5.37e-04	8.61e-04	0.0	44,34,0	5.42e-05	6.42e-04	2.51e-04	44,44,34			1.00	0.07	0.93	
903	0.0	0.03	0.0	0,2,0	7.12e-05	6.08e-06	0.01	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	1.49e-03	1.83e-03	0.0	45,34,0	7.10e-05	1.75e-03	5.20e-04	34,45,34			1.00	0.07	0.93	
911	0.0	0.03	0.0	0,2,0	7.12e-05	6.08e-06	0.01	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	1.49e-03	1.83e-03	0.0	45,34,0	7.10e-05	1.75e-03	5.20e-04	34,45,34			1.00	0.07	0.93	
922	0.0	0.02	0.0	0,2,0	6.92e-05	1.48e-06	8.87e-03	34,18,2	0.0	0	0.0	0.0	0.0	0.0
	9.97e-04	1.48e-03	0.0	45,34,0	6.91e-05	1.18e-03	4.20e-04	34,45,34			1.00	0.07	0.93	
931	0.0	0.02	0.0	0,2,0	6.37e-05	3.64e-06	8.54e-03	34,8,2	0.0	0	0.0	0.0	0.0	0.0
	2.49e-04	8.19e-04	0.0	45,2,0	6.35e-05	2.97e-04	2.33e-04	34,45,2			1.00	0.07	0.93	
938	0.0	0.03	0.0	0,2,0	5.42e-05	5.63e-06	0.01	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	1.05e-03	8.06e-04	0.0	34,45,0	5.40e-05	1.25e-03	2.31e-04	34,34,45			1.00	0.07	0.93	
944	0.0	0.03	0.0	0,2,0	3.38e-05	5.63e-06	0.01	44,28,2	0.0	0	0.0	0.0	0.0	0.0
	1.05e-03	8.06e-04	0.0	34,45,0	3.37e-05	1.25e-03	2.31e-04	44,34,45			1.00	0.07	0.93	
950	0.0	0.02	0.0	0,2,0	1.30e-05	1.70e-05	8.87e-03	28,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.26e-04	1.08e-04	0.0	38,35,0	1.27e-05	9.73e-04	3.15e-05	28,38,35			1.00	0.07	0.93	
987	0.0	0.02	0.0	0,2,0	1.30e-05	1.70e-05	8.87e-03	28,8,2	0.0	0	0.0	0.0	0.0	0.0
	8.26e-04	1.08e-04	0.0	38,35,0	1.27e-05	9.73e-04	3.15e-05	28,38,35			1.00	0.07	0.93	
1279	0.0	0.01	0.0	0,2,0	8.38e-05	7.04e-05	5.09e-03	2,13,2	0.0	0	0.0	0.0	0.0	0.0
	2.35e-03	2.32e-03	0.0	44,34,0	8.36e-05	2.77e-03	6.66e-04	2,44,34			1.00	0.07	0.93	
1294	0.0	0.03	0.0	0,2,0	1.09e-04	7.04e-05	0.01	38,13,2	0.0	0	0.0	0.0	0.0	0.0
	5.43e-03	2.32e-03	0.0	38,34,0	1.08e-04	6.41e-03	6.66e-04	38,38,34			1.00	0.07	0.93	
1302	0.0	0.03	0.0	0,2,0	1.09e-04	2.37e-05	0.01	38,18,2	0.0	0	0.0	0.0	0.0	0.0
	7.60e-03	3.34e-03	0.0	44,35,0	1.08e-04	8.97e-03	9.48e-04	38,44,35			1.00	0.07	0.93	
1312	0.0	0.03	0.0	0,2,0	7.88e-05	9.05e-06	0.01	28,24,2	0.0	0	0.0	0.0	0.0	0.0
	7.60e-03	3.34e-03	0.0	44,35,0	7.84e-05	8.97e-03	9.48e-04	28,44,35			1.00	0.07	0.93	
1319	0.0	0.03	0.0	0,2,0	7.88e-05	5.69e-06	0.01	28,8,2	0.0	0	0.0	0.0	0.0	0.0
	6.37e-03	2.95e-03	0.0	44,35,0	7.84e-05	7.52e-03	8.35e-04	28,44,35			1.00	0.07	0.93	
1329	0.0	0.02	0.0	0,2,0	6.76e-05	2.47e-06	8.45e-03	34,2,2	0.0	0	0.0	0.0	0.0	0.0
	3.96e-03	1.90e-03	0.0	44,35,0	6.75e-05	4.66e-03	5.38e-04	34,44,35			1.00	0.07	0.93	
1343	0.0	0.02	0.0	0,2,0	5.65e-05	3.64e-06	8.15e-03	34,8,2	0.0	0	0.0	0.0	0.0	0.0
	3.82e-03	8.01e-04	0.0	2,35,0	5.63e-05	4.52e-03	2.27e-04	34,2,35			1.00	0.07	0.93	
1352	0.0	0.03	0.0	0,2,0	4.71e-05	7.14e-06	9.60e-03	45,12,2	0.0	0	0.0	0.0	0.0	0.0
	5.79e-03	8.06e-04	0.0	2,45,0	4.70e-05	6.81e-03	2.31e-04	45,2,45			1.00	0.07	0.93	
1359	0.0	0.03	0.0	0,2,0	3.69e-05	2.13e-05	9.60e-03	34,12,2	0.0	0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1367	6.68e-03	8.06e-04	0.0	2,45,0	3.68e-05	7.89e-03	2.31e-04	34,2,45			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	7.30e-05	3.87e-05	8.87e-03	28,23,2	0.0	0	0.0	0.0	0.0
1407	6.68e-03	1.08e-04	0.0	2,35,0	7.29e-05	7.89e-03	3.15e-05	28,2,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	7.30e-05	3.87e-05	8.87e-03	28,23,2	0.0	0	0.0	0.0	0.0
1770	3.05e-03	1.08e-04	0.0	2,35,0	7.29e-05	3.60e-03	3.15e-05	28,2,35			1.00	0.07	0.93
	0.0	0.01	0.0	0,2,0	3.05e-04	7.04e-05	4.78e-03	38,13,2	0.0	0	0.0	0.0	0.0
1785	2.35e-03	1.60e-03	0.0	44,35,0	3.05e-04	2.77e-03	4.54e-04	38,44,35			1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	3.05e-04	7.04e-05	9.20e-03	38,13,2	0.0	0	0.0	0.0	0.0
1799	5.43e-03	1.85e-03	0.0	38,34,0	3.05e-04	6.41e-03	5.36e-04	38,38,34			1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	1.90e-04	1.06e-05	9.20e-03	38,24,2	0.0	0	0.0	0.0	0.0
1816	7.60e-03	3.34e-03	0.0	44,35,0	1.89e-04	8.97e-03	9.48e-04	38,44,35			1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	8.68e-05	1.06e-05	9.25e-03	28,24,2	0.0	0	0.0	0.0	0.0
1829	7.60e-03	3.34e-03	0.0	44,35,0	8.65e-05	8.97e-03	9.48e-04	28,44,35			1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	8.68e-05	5.02e-06	9.25e-03	28,18,2	0.0	0	0.0	0.0	0.0
1845	6.37e-03	2.95e-03	0.0	44,35,0	8.65e-05	7.52e-03	8.35e-04	28,44,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	2.64e-05	4.16e-06	7.80e-03	34,28,2	0.0	0	0.0	0.0	0.0
1860	3.96e-03	1.90e-03	0.0	44,35,0	2.62e-05	4.66e-03	5.38e-04	34,44,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	2.24e-05	1.42e-05	7.61e-03	44,28,2	0.0	0	0.0	0.0	0.0
1870	3.82e-03	8.01e-04	0.0	2,35,0	2.23e-05	4.52e-03	2.36e-04	44,2,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	3.55e-05	1.42e-05	7.94e-03	44,28,2	0.0	0	0.0	0.0	0.0
1878	5.79e-03	7.27e-04	0.0	2,35,0	3.54e-05	6.81e-03	2.13e-04	44,2,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	4.09e-05	2.13e-05	7.94e-03	28,12,2	0.0	0	0.0	0.0	0.0
1887	6.68e-03	6.60e-04	0.0	2,35,0	4.08e-05	7.89e-03	2.00e-04	28,2,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	7.30e-05	6.07e-05	6.30e-03	28,12,2	0.0	0	0.0	0.0	0.0
1930	6.68e-03	5.06e-04	0.0	2,35,0	7.29e-05	7.89e-03	1.48e-04	28,2,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	7.30e-05	6.07e-05	6.30e-03	28,12,2	0.0	0	0.0	0.0	0.0
2376	3.05e-03	3.32e-04	0.0	2,45,0	7.29e-05	3.60e-03	9.58e-05	28,2,45			1.00	0.07	0.93
	0.0	0.01	0.0	0,2,0	3.05e-04	6.17e-05	4.05e-03	38,24,2	0.0	0	0.0	0.0	0.0
2460	1.91e-03	9.77e-04	0.0	44,35,0	3.05e-04	2.27e-03	2.84e-04	38,44,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	3.05e-04	6.17e-05	8.19e-03	38,24,2	0.0	0	0.0	0.0	0.0
2479	1.91e-03	1.85e-03	0.0	45,34,0	3.05e-04	2.27e-03	5.36e-04	38,45,34			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	1.90e-04	1.06e-05	8.19e-03	38,24,2	0.0	0	0.0	0.0	0.0
2553	1.91e-03	2.51e-03	0.0	45,34,0	1.89e-04	2.27e-03	7.27e-04	38,45,34			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	8.68e-05	1.06e-05	7.70e-03	28,24,2	0.0	0	0.0	0.0	0.0
2569	7.69e-04	2.51e-03	0.0	45,34,0	8.65e-05	9.25e-04	7.27e-04	28,45,34			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	8.68e-05	4.16e-06	7.70e-03	28,28,2	0.0	0	0.0	0.0	0.0
2588	1.55e-03	1.43e-03	0.0	44,34,0	8.65e-05	1.84e-03	4.13e-04	28,44,34			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	1.62e-05	4.16e-06	7.18e-03	28,28,2	0.0	0	0.0	0.0	0.0
2611	2.22e-03	9.81e-04	0.0	38,35,0	1.60e-05	2.62e-03	2.89e-04	28,38,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	1.83e-05	1.42e-05	7.05e-03	44,28,2	0.0	0	0.0	0.0	0.0
2629	2.61e-03	7.94e-04	0.0	38,35,0	1.82e-05	3.16e-03	2.36e-04	44,38,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	3.55e-05	1.42e-05	7.05e-03	44,28,2	0.0	0	0.0	0.0	0.0
2645	2.61e-03	7.27e-04	0.0	38,35,0	3.54e-05	3.16e-03	2.13e-04	44,38,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	4.09e-05	1.86e-05	7.05e-03	28,12,2	0.0	0	0.0	0.0	0.0
2662	1.66e-03	6.60e-04	0.0	2,35,0	4.08e-05	2.01e-03	2.00e-04	28,2,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	4.09e-05	6.07e-05	6.30e-03	28,12,2	0.0	0	0.0	0.0	0.0
2705	2.38e-04	5.06e-04	0.0	2,35,0	4.08e-05	2.87e-04	1.48e-04	28,2,35			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	3.79e-05	6.07e-05	6.30e-03	28,12,2	0.0	0	0.0	0.0	0.0
	1.33e-04	3.32e-04	0.0	2,45,0	3.77e-05	1.76e-04	9.58e-05	28,2,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	7.60e-03	0.03	0.0		3.05e-04	8.97e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
78	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb			
ok	0.04	-439.1	24	0.03	-471.7	24	0.04	-2945.2	-1.033e+05	28			
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
41	0.0	9.98e-03	0.0	0,38,0	8.08e-06	7.20e-04	3.71e-03	36,34,38	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	34,34,0	1.26e-05	0.04	0.01	36,34,34			1.00	0.07	0.93
42	3.17e-03	9.98e-03	0.0	35,38,0	3.76e-05	7.51e-03	9.29e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	34,34,0	2.40e-05	0.04	0.01	34,34,34			1.00	0.07	0.93
43	5.74e-03	9.12e-03	0.0	35,34,0	3.76e-05	0.01	0.02	34,35,34	0.0	0	0.94	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	5.16e-03	4.00e-03	0.0	35,34,0	2.40e-05	0.01	6.71e-03	34,34,34			1.00	0.07	0.93
44	7.13e-03	9.64e-03	0.0	35,34,0	2.35e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	5.84e-03	4.54e-03	0.0	35,34,0	1.14e-05	0.01	3.37e-03	34,36,34			1.00	0.07	0.93
45	7.13e-03	0.01	0.0	35,34,0	2.35e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	5.84e-03	4.54e-03	0.0	35,34,0	1.12e-05	0.01	3.08e-03	34,36,34			1.00	0.07	0.93
46	5.63e-03	0.01	0.0	35,34,0	4.23e-05	0.01	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	5.42e-03	4.13e-03	0.0	34,34,0	2.72e-05	0.01	6.51e-03	34,34,34			1.00	0.07	0.93
47	2.52e-03	0.01	0.0	35,38,0	4.23e-05	7.31e-03	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	9.50e-03	0.0	34,35,0	2.72e-05	0.03	0.01	34,34,34			1.00	0.07	0.93
48	0.0	0.01	0.0	0,38,0	1.70e-05	4.37e-04	5.01e-03	34,38,38	0.0	0	0.0	0.0	0.0
	0.01	9.50e-03	0.0	34,35,0	1.82e-05	0.03	0.01	34,34,34			1.00	0.07	0.93
510	0.0	9.98e-03	0.0	0,38,0	8.08e-06	9.32e-04	3.73e-03	36,34,34	0.0	0	0.0	0.0	0.0
	0.05	0.04	0.0	34,34,0	2.50e-05	0.11	0.03	35,34,34			1.00	0.07	0.93
511	0.01	0.01	0.0	35,34,0	3.76e-05	9.58e-03	9.29e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.05	0.04	0.0	34,34,0	2.50e-05	0.11	0.03	35,34,34			1.00	0.07	0.93
512	0.02	0.02	0.0	35,34,0	3.76e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	36,34,0	2.40e-05	0.04	0.01	34,34,34			1.00	0.07	0.93
513	0.02	0.02	0.0	35,34,0	2.35e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	36,34,0	1.14e-05	0.04	7.28e-03	34,34,34			1.00	0.07	0.93
514	0.02	0.02	0.0	35,34,0	2.35e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	36,34,0	1.12e-05	0.04	7.28e-03	34,34,34			1.00	0.07	0.93
515	0.02	0.02	0.0	35,34,0	4.23e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	34,34,0	2.72e-05	0.04	0.01	34,34,34			1.00	0.07	0.93
516	0.01	0.01	0.0	35,34,0	4.23e-05	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.04	0.03	0.0	34,34,0	3.11e-05	0.10	0.03	34,34,34			1.00	0.07	0.93
517	0.0	0.01	0.0	0,38,0	1.70e-05	8.71e-04	5.01e-03	34,34,38	0.0	0	0.0	0.0	0.0
	0.04	0.03	0.0	34,34,0	3.11e-05	0.10	0.03	34,34,34			1.00	0.07	0.93
868	1.02e-03	8.74e-03	0.0	35,38,0	6.99e-06	9.32e-04	3.73e-03	12,34,34	0.0	0	0.94	0.03	0.97
	0.06	0.04	0.0	34,33,0	2.50e-05	0.14	0.03	35,34,34			1.00	0.07	0.93
869	0.01	0.01	0.0	35,34,0	1.87e-05	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.04	0.0	34,33,0	2.50e-05	0.14	0.03	35,34,34			1.00	0.07	0.93
870	0.03	0.02	0.0	35,34,0	1.87e-05	0.02	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,33,0	1.62e-05	0.05	0.01	34,34,33			1.00	0.07	0.93
871	0.03	0.02	0.0	35,34,0	1.50e-05	0.03	0.02	34,35,33	0.0	0	0.94	0.03	0.97
	0.03	0.03	0.0	34,34,0	7.05e-06	0.08	0.01	34,34,34			1.00	0.07	0.93
872	0.03	0.02	0.0	35,34,0	1.60e-05	0.03	0.02	34,35,33	0.0	0	0.94	0.03	0.97
	0.03	0.03	0.0	34,34,0	7.80e-06	0.08	0.01	34,34,34			1.00	0.07	0.93
873	0.03	0.02	0.0	35,34,0	2.48e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,34,0	2.03e-05	0.05	0.01	34,34,34			1.00	0.07	0.93
874	0.01	0.01	0.0	35,34,0	2.48e-05	0.01	9.94e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.04	0.0	34,34,0	4.14e-05	0.13	0.03	34,34,34			1.00	0.07	0.93
875	0.0	0.01	0.0	0,38,0	2.40e-05	8.71e-04	4.96e-03	18,34,34	0.0	0	0.0	0.0	0.0
	0.06	0.04	0.0	34,34,0	4.14e-05	0.13	0.03	34,34,34			1.00	0.07	0.93
1279	1.02e-03	7.43e-03	0.0	35,38,0	1.08e-05	3.59e-04	3.46e-03	12,2,34	0.0	0	0.94	0.03	0.97
	0.06	0.04	0.0	34,33,0	2.37e-05	0.14	0.03	35,34,34			1.00	0.07	0.93
1280	8.92e-03	8.41e-03	0.0	35,34,0	1.08e-05	0.01	0.01	12,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.04	0.0	34,33,0	2.37e-05	0.14	0.03	35,34,34			1.00	0.07	0.93
1281	0.03	0.02	0.0	35,34,0	2.34e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,33,0	1.11e-05	0.05	0.01	34,34,33			1.00	0.07	0.93
1282	0.03	0.02	0.0	35,34,0	2.34e-05	0.03	0.02	34,35,33	0.0	0	0.94	0.03	0.97
	0.03	0.03	0.0	34,34,0	1.11e-05	0.08	0.01	34,34,34			1.00	0.07	0.93
1283	0.03	0.02	0.0	35,34,0	3.17e-05	0.03	0.02	34,35,33	0.0	0	0.94	0.03	0.97
	0.03	0.03	0.0	34,34,0	1.77e-05	0.08	0.01	34,34,34			1.00	0.07	0.93
1284	0.03	0.02	0.0	35,34,0	3.67e-05	0.02	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,34,0	2.63e-05	0.05	0.01	34,34,34			1.00	0.07	0.93
1285	0.01	0.01	0.0	35,34,0	3.70e-05	0.01	9.55e-03	28,35,34	0.0	0	0.94	0.03	0.97
	0.06	0.04	0.0	34,34,0	4.14e-05	0.13	0.03	34,34,34			1.00	0.07	0.93
1286	0.0	8.29e-03	0.0	0,38,0	3.70e-05	9.48e-04	3.95e-03	28,44,34	0.0	0	0.0	0.0	0.0
	0.06	0.04	0.0	34,34,0	4.14e-05	0.13	0.03	34,34,34			1.00	0.07	0.93
1770	9.91e-03	0.01	0.0	35,34,0	1.08e-05	0.01	0.01	12,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,35,0	1.15e-05	0.06	0.02	35,35,35			1.00	0.07	0.93
1771	9.91e-03	0.01	0.0	35,34,0	2.61e-05	0.02	0.01	35,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,35,0	1.22e-05	0.06	0.02	35,35,35			1.00	0.07	0.93
1772	0.03	0.02	0.0	35,34,0	2.61e-05	0.03	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	0.01	7.89e-03	0.0	34,35,0	1.22e-05	0.02	3.85e-03	35,34,35			1.00	0.07	0.93
1773	0.03	0.02	0.0	35,34,0	2.38e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	7.89e-03	0.0	34,35,0	1.11e-05	0.02	3.85e-03	34,34,35			1.00	0.07	0.93
1774	0.02	0.02	0.0	35,34,0	3.17e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	8.08e-03	5.50e-03	0.0	34,35,0	1.77e-05	0.02	3.02e-03	34,34,33			1.00	0.07	0.93
1775	0.02	0.02	0.0	35,34,0	3.91e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	8.08e-03	5.50e-03	0.0	34,35,0	2.63e-05	0.02	6.04e-03	34,34,34			1.00	0.07	0.93
1776	0.01	0.01	0.0	35,34,0	4.27e-05	0.02	0.02	18,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	4.27e-05	0.08	0.02	18,34,35			1.00	0.07	0.93
1777	5.88e-03	8.34e-03	0.0	35,34,0	4.27e-05	8.99e-03	9.39e-03	18,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	4.27e-05	0.08	0.02	18,34,35			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2376	9.91e-03	0.01	0.0	35,34,0	8.75e-06	0.01	0.01	8,35,34	0.0	0	0.94	0.03	0.97
	3.84e-03	2.68e-03	0.0	44,35,0	8.76e-06	7.90e-03	1.35e-03	8,34,44			1.00	0.07	0.93
2377	9.91e-03	0.01	0.0	35,34,0	2.61e-05	0.02	0.01	35,35,34	0.0	0	0.94	0.03	0.97
	8.46e-03	5.94e-03	0.0	34,35,0	1.22e-05	0.02	3.01e-03	35,34,35			1.00	0.07	0.93
2378	0.03	0.02	0.0	35,34,0	2.61e-05	0.03	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	0.01	7.89e-03	0.0	34,35,0	1.22e-05	0.02	3.85e-03	35,34,35			1.00	0.07	0.93
2379	0.03	0.02	0.0	35,34,0	2.38e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	7.89e-03	0.0	34,35,0	6.60e-06	0.02	3.85e-03	34,34,35			1.00	0.07	0.93
2380	0.02	0.02	0.0	35,34,0	2.38e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	8.08e-03	5.50e-03	0.0	34,35,0	5.65e-06	0.02	2.78e-03	34,34,35			1.00	0.07	0.93
2381	0.02	0.02	0.0	35,34,0	3.91e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	8.08e-03	5.50e-03	0.0	34,35,0	2.39e-05	0.02	2.78e-03	34,34,35			1.00	0.07	0.93
2382	0.01	0.01	0.0	35,34,0	4.27e-05	0.02	0.02	18,35,34	0.0	0	0.94	0.03	0.97
	7.29e-03	5.59e-03	0.0	34,35,0	4.27e-05	0.02	2.84e-03	18,36,35			1.00	0.07	0.93
2383	5.88e-03	8.34e-03	0.0	35,34,0	4.27e-05	8.99e-03	9.39e-03	18,35,34	0.0	0	0.94	0.03	0.97
	7.29e-03	5.59e-03	0.0	34,35,0	4.27e-05	0.02	2.84e-03	18,36,35			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.06	0.04	0.0	4.27e-05	0.14	0.03	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
79	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		daN			daN			daN	daN cm	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1337	0.01	1.37e-03	0.0	28,45,0	7.91e-04	0.02	6.80e-04	2,28,45	0.0	0	0.80	0.04	0.96
	0.0	8.72e-03	0.0	0,2,0	7.79e-04	2.99e-04	2.60e-03	2,43,2			0.0	0.0	0.0
1345	0.02	1.37e-03	0.0	2,45,0	7.91e-04	0.02	6.80e-04	2,2,45	0.0	0	0.80	0.04	0.96
	0.0	8.72e-03	0.0	0,2,0	7.79e-04	3.58e-04	2.60e-03	2,28,2			0.0	0.0	0.0
1353	0.02	0.0	0.0	2,0,0	7.95e-05	0.02	3.24e-04	2,2,2	0.0	0	0.80	0.04	0.96
	0.0	3.36e-03	0.0	0,2,0	7.88e-05	3.58e-04	1.29e-03	2,28,2			0.0	0.0	0.0
1361	0.02	0.0	0.0	2,0,0	6.52e-04	0.02	1.82e-04	2,2,2	0.0	0	0.80	0.04	0.96
	0.0	6.69e-03	0.0	0,2,0	6.48e-04	7.27e-05	1.95e-03	2,2,2			0.0	0.0	0.0
1399	8.12e-03	0.0	0.0	2,0,0	6.52e-04	9.53e-03	4.95e-05	2,2,30	0.0	0	0.80	0.04	0.96
	0.0	6.69e-03	0.0	0,2,0	6.48e-04	6.64e-05	1.95e-03	2,30,2			0.0	0.0	0.0
1853	0.01	1.37e-03	0.0	28,45,0	8.97e-04	0.02	1.20e-03	2,28,36	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	8.90e-04	7.33e-04	4.00e-03	2,38,2			0.0	0.0	0.0
1862	0.02	2.84e-03	0.0	2,28,0	8.97e-04	0.02	1.39e-03	2,2,28	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	8.90e-04	7.33e-04	4.00e-03	2,38,2			0.0	0.0	0.0
1871	0.02	3.78e-03	0.0	2,28,0	1.85e-04	0.02	1.72e-03	2,2,28	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	1.84e-04	3.58e-04	3.26e-03	2,28,2			0.0	0.0	0.0
1880	0.02	3.78e-03	0.0	2,28,0	1.09e-03	0.02	1.72e-03	2,2,28	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	1.08e-03	2.63e-04	3.02e-03	2,2,2			0.0	0.0	0.0
1922	8.12e-03	2.52e-03	0.0	2,2,0	1.09e-03	9.53e-03	1.08e-03	2,2,2	0.0	0	0.80	0.04	0.96
	0.0	8.57e-03	0.0	0,2,0	1.08e-03	2.63e-04	2.65e-03	2,2,2			0.0	0.0	0.0
2596	3.51e-03	1.17e-03	0.0	2,36,0	8.97e-04	3.67e-03	1.20e-03	2,2,36	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	8.90e-04	7.33e-04	4.00e-03	2,38,2			0.0	0.0	0.0
2613	3.51e-03	2.84e-03	0.0	2,28,0	8.97e-04	3.67e-03	1.39e-03	2,2,28	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	8.90e-04	7.33e-04	4.00e-03	2,38,2			0.0	0.0	0.0
2630	0.0	3.78e-03	0.0	0,28,0	1.85e-04	1.18e-04	1.72e-03	2,2,28	0.0	0	0.0	0.0	0.0
	0.0	0.01	0.0	0,2,0	1.84e-04	1.09e-04	3.26e-03	2,28,2			0.0	0.0	0.0
2647	0.0	3.78e-03	0.0	0,28,0	1.09e-03	1.18e-04	1.72e-03	2,2,28	0.0	0	0.0	0.0	0.0
	0.0	0.01	0.0	0,2,0	1.08e-03	2.63e-04	3.02e-03	2,2,2			0.0	0.0	0.0
2697	0.0	2.52e-03	0.0	0,2,0	1.09e-03	6.97e-05	1.08e-03	2,30,2	0.0	0	0.0	0.0	0.0
	0.0	8.57e-03	0.0	0,2,0	1.08e-03	2.63e-04	2.65e-03	2,2,2			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.02	0.01	0.0	1.09e-03	0.02	4.00e-03	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
80	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	978.7	43	0.25	518.3	2	0.17	-8107.3	-4.882e+05	28

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
33	0.0	8.54e-03	0.0	0,38,0	4.98e-05	1.10e-03	4.10e-03	34,2,38	0.0	0	0.0	0.0	0.0
	0.0	1.94e-03	0.0	0,2,0	4.58e-05	2.21e-03	2.60e-03	34,2,2			0.0	0.0	0.0
62	0.0	0.02	0.0	0,2,0	6.07e-05	1.10e-03	8.75e-03	34,2,2	0.0	0	0.0	0.0	0.0
	2.14e-03	2.29e-03	0.0	38,28,0	5.78e-05	4.86e-03	2.60e-03	34,38,2			1.00	0.07	0.93
70	0.0	0.02	0.0	0,2,0	6.07e-05	1.40e-03	0.01	34,2,2	0.0	0	0.0	0.0	0.0
	2.14e-03	2.69e-03	0.0	38,28,0	5.82e-05	4.86e-03	1.59e-03	43,38,28			1.00	0.07	0.93
79	0.0	0.03	0.0	0,2,0	6.38e-05	1.57e-03	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.83e-03	2.69e-03	0.0	38,28,0	6.18e-05	4.61e-03	1.55e-03	44,38,28			1.00	0.07	0.93
87	0.0	0.05	0.0	0,28,0	6.38e-05	1.57e-03	0.02	44,2,28	0.0	0	0.0	0.0	0.0
	2.51e-03	2.43e-03	0.0	44,28,0	6.18e-05	3.90e-03	2.98e-03	44,44,28			1.00	0.07	0.93
98	0.0	0.05	0.0	0,28,0	4.70e-05	1.41e-04	0.02	44,10,28	0.0	0	0.0	0.0	0.0
	2.51e-03	2.30e-03	0.0	44,28,0	4.44e-05	3.90e-03	2.98e-03	44,44,28			1.00	0.07	0.93
502	0.0	0.01	0.0	0,38,0	5.45e-05	1.28e-03	5.57e-03	34,2,38	0.0	0	0.0	0.0	0.0
	3.08e-03	3.68e-03	0.0	2,2,0	5.07e-05	8.32e-03	4.00e-03	34,2,2			1.00	0.07	0.93
531	0.0	0.02	0.0	0,2,0	7.37e-05	1.48e-03	9.11e-03	34,2,2	0.0	0	0.0	0.0	0.0
	7.77e-03	7.70e-03	0.0	2,2,0	7.11e-05	0.02	4.00e-03	34,2,2			1.00	0.07	0.93
539	0.0	0.02	0.0	0,2,0	7.37e-05	2.02e-03	0.01	34,2,2	0.0	0	0.0	0.0	0.0
	7.77e-03	8.44e-03	0.0	2,2,0	7.11e-05	0.02	3.86e-03	34,2,2			1.00	0.07	0.93
548	0.0	0.03	0.0	0,2,0	9.07e-05	2.02e-03	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	6.78e-03	8.44e-03	0.0	2,2,0	8.82e-05	0.02	3.86e-03	44,2,2			1.00	0.07	0.93
556	0.0	0.05	0.0	0,2,0	9.07e-05	1.76e-03	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	3.02e-03	6.05e-03	0.0	38,28,0	8.82e-05	9.29e-03	2.98e-03	44,2,28			1.00	0.07	0.93
567	0.0	0.05	0.0	0,2,0	8.37e-05	1.58e-03	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	2.51e-03	2.35e-03	0.0	44,28,0	8.08e-05	3.90e-03	2.98e-03	44,44,28			1.00	0.07	0.93
862	0.0	0.02	0.0	0,2,0	5.67e-05	1.28e-03	7.40e-03	34,2,2	0.0	0	0.0	0.0	0.0
	7.81e-03	7.52e-03	0.0	2,2,0	5.55e-05	0.02	9.28e-03	34,2,2			1.00	0.07	0.93
889	0.0	0.02	0.0	0,2,0	7.84e-05	3.37e-03	0.01	34,2,2	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	2,2,0	7.74e-05	0.04	9.28e-03	34,2,2			1.00	0.07	0.93
897	0.0	0.03	0.0	0,2,0	7.84e-05	3.87e-03	0.02	34,2,2	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	2,2,0	7.74e-05	0.04	7.04e-03	34,2,2			1.00	0.07	0.93
906	0.0	0.03	0.0	0,2,0	9.07e-05	3.87e-03	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	0.01	0.01	0.0	28,2,0	8.82e-05	0.03	6.18e-03	44,2,2			1.00	0.07	0.93
914	0.0	0.05	0.0	0,2,0	1.81e-04	1.76e-03	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	3.09e-03	8.27e-03	0.0	30,2,0	1.77e-04	0.01	4.88e-03	38,28,2			1.00	0.07	0.93
925	0.0	0.05	0.0	0,2,0	1.81e-04	1.58e-03	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	9.70e-04	4.72e-03	0.0	45,38,0	1.77e-04	1.77e-03	2.77e-03	38,28,2			1.00	0.07	0.93
1273	0.0	0.02	0.0	0,2,0	1.35e-04	0.01	0.02	28,2,2	0.0	0	0.0	0.0	0.0
	7.81e-03	7.52e-03	0.0	2,2,0	1.23e-04	0.02	0.02	28,2,2			1.00	0.07	0.93
1299	0.01	0.04	0.0	2,2,0	1.35e-04	0.02	0.03	28,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	2,2,0	1.23e-04	0.05	0.02	28,2,2			1.00	0.07	0.93
1306	0.01	0.04	0.0	2,2,0	8.75e-05	0.02	0.03	28,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	2,2,0	7.74e-05	0.05	0.02	34,2,2			1.00	0.07	0.93
1315	2.67e-03	0.03	0.0	30,2,0	7.69e-05	3.87e-03	0.02	44,2,2	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	28,2,0	7.57e-05	0.03	6.18e-03	44,2,2			1.00	0.07	0.93
1322	0.0	0.05	0.0	0,2,0	3.01e-04	2.61e-03	0.02	38,28,2	0.0	0	0.0	0.0	0.0
	7.89e-03	8.27e-03	0.0	28,2,0	2.85e-04	0.01	5.47e-03	38,28,28			1.00	0.07	0.93
1337	0.0	0.05	0.0	0,2,0	3.01e-04	2.61e-03	0.02	38,28,2	0.0	0	0.0	0.0	0.0
	7.89e-03	4.72e-03	0.0	28,38,0	2.85e-04	0.01	5.47e-03	38,28,28			1.00	0.07	0.93
1762	0.01	0.02	0.0	2,2,0	1.35e-04	0.02	0.02	28,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	1.23e-04	0.04	0.02	28,2,2			1.00	0.07	0.93
1791	0.05	0.05	0.0	2,2,0	4.57e-04	0.12	0.11	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	2,2,0	1.23e-04	0.05	0.02	28,2,2			1.00	0.07	0.93
1804	0.05	0.05	0.0	2,2,0	4.57e-04	0.12	0.11	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	2,2,0	6.99e-05	0.05	0.02	28,2,2			1.00	0.07	0.93
1819	0.04	0.05	0.0	2,2,0	3.02e-04	0.09	0.09	2,2,2	0.0	0	0.95	0.03	0.97
	5.92e-03	4.28e-03	0.0	28,38,0	5.84e-05	0.01	5.08e-03	38,28,2			1.00	0.07	0.93
1832	0.02	0.04	0.0	28,2,0	4.09e-04	0.05	0.06	2,2,2	0.0	0	0.95	0.03	0.97
	7.89e-03	2.68e-03	0.0	28,45,0	3.82e-04	0.01	6.42e-03	2,28,28			1.00	0.07	0.93
1853	0.0	0.04	0.0	0,2,0	4.09e-04	0.02	0.03	2,2,2	0.0	0	0.0	0.0	0.0
	7.89e-03	2.68e-03	0.0	28,45,0	3.82e-04	0.01	6.42e-03	2,28,28			1.00	0.07	0.93
2368	0.01	0.02	0.0	2,2,0	3.59e-05	0.02	0.02	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	3.01e-05	0.04	0.02	2,2,2			1.00	0.07	0.93
2468	0.05	0.05	0.0	2,2,0	4.57e-04	0.12	0.11	2,2,2	0.0	0	0.95	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2486	0.02	0.01	0.0	2,2,0	3.01e-05	0.05	0.02	2,2,2			1.00	0.07	0.93
	0.05	0.05	0.0	2,2,0	4.57e-04	0.12	0.11	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	1.23e-05	0.05	0.02	44,2,2			1.00	0.07	0.93
2556	0.04	0.05	0.0	2,2,0	3.02e-04	0.09	0.09	2,2,2	0.0	0	0.95	0.03	0.97
	5.77e-03	1.71e-04	0.0	2,45,0	5.84e-05	0.01	5.08e-03	38,2,2			1.00	0.07	0.93
2572	0.02	0.04	0.0	28,2,0	4.09e-04	0.05	0.06	2,2,2	0.0	0	0.95	0.03	0.97
	5.62e-03	0.0	0.0	2,0,0	3.82e-04	0.01	6.42e-03	2,2,28			1.00	0.07	0.93
2596	0.0	0.03	0.0	0,2,0	4.09e-04	0.02	0.03	2,2,2	0.0	0	0.0	0.0	0.0
	5.62e-03	0.0	0.0	2,0,0	3.82e-04	0.01	6.42e-03	2,2,28			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.05	0.0		4.57e-04	0.12	0.11		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
81	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		daN			daN			daN	daN cm	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1331	0.02	7.68e-04	0.0	2,45,0	9.15e-04	0.02	5.27e-04	2,2,2	0.0	0	0.80	0.04	0.96
	0.0	8.93e-03	0.0	0,2,0	9.02e-04	3.38e-04	2.65e-03	2,30,2			0.0	0.0	0.0
1346	0.02	7.68e-04	0.0	2,45,0	9.15e-04	0.03	5.27e-04	2,2,2	0.0	0	0.80	0.04	0.96
	0.0	8.93e-03	0.0	0,2,0	9.02e-04	3.38e-04	2.65e-03	2,30,2			0.0	0.0	0.0
1354	0.02	0.0	0.0	2,0,0	1.05e-04	0.03	3.12e-04	2,2,2	0.0	0	0.80	0.04	0.96
	0.0	3.78e-03	0.0	0,2,0	1.04e-04	3.14e-04	1.37e-03	2,28,2			0.0	0.0	0.0
1362	0.02	0.0	0.0	2,0,0	6.75e-04	0.03	1.87e-04	2,2,2	0.0	0	0.80	0.04	0.96
	0.0	6.81e-03	0.0	0,2,0	6.71e-04	1.84e-04	2.10e-03	2,2,2			0.0	0.0	0.0
1391	0.01	0.0	0.0	2,0,0	6.75e-04	0.01	1.14e-04	2,2,2	0.0	0	0.80	0.04	0.96
	0.0	6.81e-03	0.0	0,2,0	6.71e-04	1.84e-04	2.10e-03	2,2,2			0.0	0.0	0.0
1847	0.02	9.73e-04	0.0	2,36,0	1.10e-03	0.02	1.09e-03	2,2,36	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	1.09e-03	5.27e-04	4.08e-03	2,38,2			0.0	0.0	0.0
1863	0.02	2.37e-03	0.0	2,28,0	1.10e-03	0.03	1.27e-03	2,2,28	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	1.09e-03	5.27e-04	4.08e-03	2,38,2			0.0	0.0	0.0
1872	0.02	3.12e-03	0.0	2,28,0	1.76e-04	0.03	1.49e-03	2,2,28	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	1.74e-04	3.14e-04	3.52e-03	2,28,2			0.0	0.0	0.0
1881	0.02	3.12e-03	0.0	2,28,0	6.75e-04	0.03	1.49e-03	2,2,28	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	6.71e-04	1.84e-04	2.95e-03	2,2,2			0.0	0.0	0.0
1914	0.01	1.41e-03	0.0	2,38,0	6.75e-04	0.01	7.61e-04	2,2,38	0.0	0	0.80	0.04	0.96
	0.0	9.72e-03	0.0	0,2,0	6.71e-04	1.84e-04	2.89e-03	2,2,2			0.0	0.0	0.0
2590	3.95e-03	9.73e-04	0.0	2,36,0	1.10e-03	4.33e-03	1.09e-03	2,2,36	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	1.09e-03	5.27e-04	4.08e-03	2,38,2			0.0	0.0	0.0
2614	3.95e-03	2.37e-03	0.0	2,28,0	1.10e-03	4.33e-03	1.27e-03	2,2,28	0.0	0	0.80	0.04	0.96
	0.0	0.01	0.0	0,2,0	1.09e-03	5.27e-04	4.08e-03	2,38,2			0.0	0.0	0.0
2631	0.0	3.12e-03	0.0	0,28,0	1.76e-04	1.21e-04	1.49e-03	2,2,28	0.0	0	0.0	0.0	0.0
	0.0	0.01	0.0	0,2,0	1.74e-04	1.04e-04	3.52e-03	2,28,2			0.0	0.0	0.0
2648	0.0	3.12e-03	0.0	0,28,0	6.61e-04	1.79e-04	1.49e-03	2,2,28	0.0	0	0.0	0.0	0.0
	0.0	0.01	0.0	0,2,0	6.57e-04	1.65e-04	2.95e-03	2,2,2			0.0	0.0	0.0
2689	0.0	1.41e-03	0.0	0,38,0	6.61e-04	1.79e-04	7.61e-04	2,2,38	0.0	0	0.0	0.0	0.0
	0.0	9.72e-03	0.0	0,2,0	6.57e-04	1.65e-04	2.89e-03	2,2,2			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.01	0.0		1.10e-03	0.03	4.08e-03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
82	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		daN			daN			daN	daN cm	

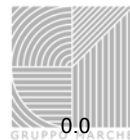
Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



ok 0.07 979.2 43 0.30 581.9 2 0.17 -8689.6 -5.154e+05

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
32	0.0	9.11e-03	0.0	0,38,0	5.32e-05	1.08e-03	4.30e-03	34,2,38	0.0	0	0.0	0.0	0.0
	0.0	2.13e-03	0.0	0,28,0	4.92e-05	2.12e-03	2.56e-03	34,2,2			0.0	0.0	0.0
63	0.0	0.02	0.0	0,2,0	6.30e-05	1.08e-03	9.34e-03	34,2,2	0.0	0	0.0	0.0	0.0
	2.09e-03	2.39e-03	0.0	38,28,0	6.01e-05	4.79e-03	2.56e-03	34,38,2			1.00	0.07	0.93
71	0.0	0.03	0.0	0,2,0	6.30e-05	1.35e-03	0.01	34,2,2	0.0	0	0.0	0.0	0.0
	2.09e-03	2.78e-03	0.0	38,28,0	6.01e-05	4.79e-03	1.59e-03	34,38,28			1.00	0.07	0.93
80	0.0	0.03	0.0	0,2,0	6.39e-05	1.48e-03	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.77e-03	2.78e-03	0.0	38,28,0	6.16e-05	4.55e-03	1.60e-03	44,38,28			1.00	0.07	0.93
89	0.0	0.05	0.0	0,28,0	6.39e-05	1.48e-03	0.02	44,2,28	0.0	0	0.0	0.0	0.0
	2.49e-03	2.49e-03	0.0	46,28,0	6.16e-05	3.90e-03	3.16e-03	44,44,28			1.00	0.07	0.93
97	0.0	0.05	0.0	0,28,0	4.68e-05	1.44e-04	0.02	44,11,28	0.0	0	0.0	0.0	0.0
	2.49e-03	2.35e-03	0.0	46,28,0	4.39e-05	3.90e-03	3.16e-03	44,44,28			1.00	0.07	0.93
501	0.0	0.01	0.0	0,38,0	5.81e-05	1.23e-03	5.76e-03	34,2,38	0.0	0	0.0	0.0	0.0
	2.93e-03	3.83e-03	0.0	2,28,0	5.42e-05	8.14e-03	3.96e-03	34,2,2			1.00	0.07	0.93
532	0.0	0.02	0.0	0,2,0	7.56e-05	1.47e-03	9.63e-03	34,2,2	0.0	0	0.0	0.0	0.0
	7.65e-03	7.80e-03	0.0	2,2,0	7.30e-05	0.02	3.96e-03	34,2,2			1.00	0.07	0.93
540	0.0	0.03	0.0	0,2,0	7.56e-05	1.97e-03	0.01	34,2,2	0.0	0	0.0	0.0	0.0
	7.65e-03	8.54e-03	0.0	2,2,0	7.30e-05	0.02	3.89e-03	34,2,2			1.00	0.07	0.93
549	0.0	0.04	0.0	0,2,0	9.30e-05	1.97e-03	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	6.57e-03	8.54e-03	0.0	2,2,0	9.02e-05	0.02	3.89e-03	44,2,2			1.00	0.07	0.93
558	0.0	0.06	0.0	0,2,0	9.30e-05	1.66e-03	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	2.82e-03	6.07e-03	0.0	40,28,0	9.02e-05	8.84e-03	3.16e-03	44,2,28			1.00	0.07	0.93
566	0.0	0.06	0.0	0,2,0	8.50e-05	1.51e-03	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	2.49e-03	2.35e-03	0.0	46,28,0	8.19e-05	3.90e-03	3.16e-03	44,44,28			1.00	0.07	0.93
861	0.0	0.02	0.0	0,2,0	5.95e-05	1.23e-03	7.56e-03	34,2,2	0.0	0	0.0	0.0	0.0
	7.79e-03	7.54e-03	0.0	2,2,0	5.82e-05	0.02	9.15e-03	34,2,2			1.00	0.07	0.93
890	0.0	0.02	0.0	0,2,0	8.01e-05	3.32e-03	0.01	34,2,2	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	2,2,0	7.91e-05	0.04	9.15e-03	34,2,2			1.00	0.07	0.93
898	0.0	0.03	0.0	0,2,0	8.01e-05	3.77e-03	0.02	34,2,2	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	2,2,0	7.91e-05	0.04	7.02e-03	34,2,2			1.00	0.07	0.93
907	0.0	0.04	0.0	0,2,0	9.30e-05	3.77e-03	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	0.01	0.01	0.0	2,2,0	9.02e-05	0.03	6.14e-03	44,2,2			1.00	0.07	0.93
916	0.0	0.06	0.0	0,2,0	2.01e-04	1.66e-03	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	2.82e-03	8.36e-03	0.0	40,2,0	1.98e-04	0.01	4.87e-03	38,28,2			1.00	0.07	0.93
924	0.0	0.06	0.0	0,2,0	2.01e-04	1.51e-03	0.02	38,2,2	0.0	0	0.0	0.0	0.0
	9.53e-04	4.85e-03	0.0	45,38,0	1.98e-04	1.81e-03	2.86e-03	38,28,2			1.00	0.07	0.93
1272	0.0	0.02	0.0	0,2,0	1.34e-04	0.01	0.02	28,2,2	0.0	0	0.0	0.0	0.0
	7.79e-03	7.54e-03	0.0	2,2,0	1.22e-04	0.02	0.02	28,2,2			1.00	0.07	0.93
1300	0.01	0.04	0.0	2,2,0	1.34e-04	0.01	0.03	28,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	1.22e-04	0.04	0.02	28,2,2			1.00	0.07	0.93
1307	0.01	0.04	0.0	2,2,0	8.93e-05	0.01	0.03	28,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	7.91e-05	0.04	0.02	34,2,2			1.00	0.07	0.93
1316	0.0	0.04	0.0	0,2,0	7.85e-05	3.77e-03	0.02	44,2,2	0.0	0	0.0	0.0	0.0
	0.01	0.01	0.0	2,2,0	7.72e-05	0.03	6.14e-03	44,2,2			1.00	0.07	0.93
1324	0.0	0.06	0.0	0,2,0	3.65e-04	2.89e-03	0.02	38,28,2	0.0	0	0.0	0.0	0.0
	9.58e-03	8.36e-03	0.0	28,2,0	3.47e-04	0.02	5.90e-03	38,28,28			1.00	0.07	0.93
1331	0.0	0.06	0.0	0,2,0	3.65e-04	2.89e-03	0.02	38,28,2	0.0	0	0.0	0.0	0.0
	9.58e-03	4.85e-03	0.0	28,38,0	3.47e-04	0.02	5.90e-03	38,28,28			1.00	0.07	0.93
1756	0.01	0.02	0.0	2,2,0	1.34e-04	0.02	0.02	28,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	1.22e-04	0.05	0.02	28,2,2			1.00	0.07	0.93
1797	0.05	0.05	0.0	2,2,0	4.59e-04	0.12	0.11	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	1.22e-04	0.05	0.02	28,2,2			1.00	0.07	0.93
1810	0.05	0.05	0.0	2,2,0	4.59e-04	0.12	0.11	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	7.21e-05	0.05	0.02	28,2,2			1.00	0.07	0.93
1825	0.04	0.05	0.0	2,2,0	3.09e-04	0.09	0.09	2,2,2	0.0	0	0.95	0.03	0.97
	6.72e-03	3.86e-03	0.0	28,38,0	8.01e-05	0.01	5.13e-03	38,28,2			1.00	0.07	0.93
1839	0.02	0.04	0.0	28,2,0	5.31e-04	0.05	0.06	2,2,2	0.0	0	0.95	0.03	0.97
	9.58e-03	2.36e-03	0.0	28,45,0	5.03e-04	0.02	6.92e-03	2,28,28			1.00	0.07	0.93
1847	0.0	0.04	0.0	0,2,0	5.31e-04	0.02	0.03	2,2,2	0.0	0	0.0	0.0	0.0
	9.58e-03	2.36e-03	0.0	28,45,0	5.03e-04	0.02	6.92e-03	2,28,28			1.00	0.07	0.93
2367	0.01	0.02	0.0	2,2,0	2.71e-05	0.02	0.02	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	2.24e-05	0.05	0.02	2,2,2			1.00	0.07	0.93
2469	0.05	0.05	0.0	2,2,0	4.59e-04	0.12	0.11	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	2.24e-05	0.05	0.02	2,2,2			1.00	0.07	0.93
2487	0.05	0.05	0.0	2,2,0	4.59e-04	0.12	0.11	2,2,2	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	2,2,0	1.44e-05	0.05	0.02	44,2,2			1.00	0.07	0.93
2557	0.04	0.05	0.0	2,2,0	3.09e-04	0.09	0.09	2,2,2	0.0	0	0.95	0.03	0.97
	6.19e-03	3.88e-04	0.0	2,46,0	8.01e-05	0.01	5.13e-03	38,2,2			1.00	0.07	0.93
2574	0.02	0.04	0.0	28,2,0	5.31e-04	0.05	0.06	2,2,2	0.0	0	0.95	0.03	0.97
	7.33e-03	0.0	0.0	2,0,0	5.03e-04	0.01	6.92e-03	2,2,28			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2590	0.0	0.03	0.0	0,2,0	5.31e-04	0.02	0.03	2,2,2	0.0	0	0.0	0.0	0.0
	7.33e-03	0.0	0.0	2,0,0	5.03e-04	0.01	6.92e-03	2,2,28			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.06	0.0		5.31e-04	0.12	0.11		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
83	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.02	159.6	24	0.02	317.9	23	0.06	-377.3	9.313e+04	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2251	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	1.46e-03	3.12e-03	0.0	45,38,0	5.09e-03	0.06	0.06	44,45,44			1.00	0.07	0.93
2252	0.02	0.02	0.0	45,44,0	0.02	0.03	0.05	43,45,44	0.0	0	0.23	0.12	0.88
	0.04	0.03	0.0	45,44,0	5.56e-03	0.08	0.06	43,45,44			1.00	0.07	0.93
2253	6.57e-03	6.48e-03	0.0	45,44,0	0.02	0.01	0.02	43,45,44	0.0	0	0.23	0.12	0.88
	0.07	0.04	0.0	43,46,0	5.56e-03	0.15	0.02	43,43,46			1.00	0.07	0.93
2254	3.48e-04	4.25e-04	0.0	45,44,0	8.31e-03	6.16e-03	6.18e-03	44,43,45	0.0	0	0.23	0.12	0.88
	0.08	0.05	0.0	43,46,0	2.73e-03	0.17	0.02	44,43,46			1.00	0.07	0.93
2255	8.35e-05	4.92e-05	0.0	43,46,0	1.97e-03	6.38e-03	6.29e-03	44,43,45	0.0	0	0.23	0.12	0.88
	0.08	0.05	0.0	43,46,0	6.41e-04	0.17	0.02	44,43,46			1.00	0.07	0.93
2256	3.12e-04	2.39e-04	0.0	43,46,0	2.64e-03	6.38e-03	6.29e-03	43,43,45	0.0	0	0.23	0.12	0.88
	0.08	0.05	0.0	43,46,0	8.83e-04	0.17	0.02	43,43,46			1.00	0.07	0.93
2257	3.12e-04	3.28e-04	0.0	43,44,0	8.71e-03	6.03e-03	5.73e-03	43,43,46	0.0	0	0.23	0.12	0.88
	0.07	0.05	0.0	43,46,0	2.91e-03	0.16	0.02	43,43,46			1.00	0.07	0.93
2258	0.01	0.01	0.0	45,44,0	0.01	0.03	0.04	43,45,44	0.0	0	0.23	0.12	0.88
	0.05	0.03	0.0	43,46,0	4.19e-03	0.11	0.02	43,43,46			1.00	0.07	0.93
2259	0.01	0.01	0.0	45,44,0	0.01	0.03	0.04	43,45,44	0.0	0	0.23	0.12	0.88
	0.03	0.03	0.0	45,44,0	4.19e-03	0.07	0.02	43,45,44			1.00	0.07	0.93
2543	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	1.46e-03	3.12e-03	0.0	45,38,0	5.09e-03	0.06	0.06	44,45,44			1.00	0.07	0.93
2544	0.02	0.02	0.0	45,44,0	0.02	0.03	0.05	43,45,44	0.0	0	0.23	0.12	0.88
	0.04	0.03	0.0	45,44,0	5.56e-03	0.08	0.06	43,45,44			1.00	0.07	0.93
2545	6.57e-03	6.48e-03	0.0	45,44,0	0.02	0.01	0.02	43,45,44	0.0	0	0.23	0.12	0.88
	0.07	0.04	0.0	43,46,0	5.56e-03	0.15	0.02	43,43,46			1.00	0.07	0.93
2546	3.48e-04	4.25e-04	0.0	45,44,0	8.31e-03	6.16e-03	6.18e-03	44,43,45	0.0	0	0.23	0.12	0.88
	0.08	0.05	0.0	43,46,0	2.73e-03	0.17	0.02	44,43,46			1.00	0.07	0.93
2547	8.35e-05	4.92e-05	0.0	43,46,0	1.97e-03	6.38e-03	6.29e-03	44,43,45	0.0	0	0.23	0.12	0.88
	0.08	0.05	0.0	43,46,0	6.41e-04	0.17	0.02	44,43,46			1.00	0.07	0.93
2548	3.12e-04	2.39e-04	0.0	43,46,0	2.64e-03	6.38e-03	6.29e-03	43,43,45	0.0	0	0.23	0.12	0.88
	0.08	0.05	0.0	43,46,0	8.83e-04	0.17	0.02	43,43,46			1.00	0.07	0.93
2549	3.12e-04	3.28e-04	0.0	43,44,0	8.71e-03	6.03e-03	5.73e-03	43,43,46	0.0	0	0.23	0.12	0.88
	0.07	0.05	0.0	43,46,0	2.91e-03	0.16	0.02	43,43,46			1.00	0.07	0.93
2550	0.01	0.01	0.0	45,44,0	0.01	0.03	0.04	43,45,44	0.0	0	0.23	0.12	0.88
	0.05	0.03	0.0	43,46,0	4.19e-03	0.11	0.02	43,43,46			1.00	0.07	0.93
2551	0.01	0.01	0.0	45,44,0	0.01	0.03	0.04	43,45,44	0.0	0	0.23	0.12	0.88
	0.03	0.03	0.0	45,44,0	4.19e-03	0.07	0.02	43,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.08	0.05	0.0		0.02	0.17	0.06		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
84	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

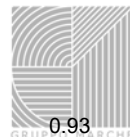
V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.04	148.7	12	0.03	221.7	12	0.02	-1311.0	1.880e+04	8

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
19	9.75e-03	0.02	0.0	35,44,0	2.58e-05	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.92e-03	0.0	35,34,0	8.74e-05	0.05	0.04	34,33,34			1.00	0.07	0.93
20	9.75e-03	0.02	0.0	35,44,0	2.58e-05	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.92e-03	0.0	35,34,0	8.74e-05	0.05	0.04	34,33,34			1.00	0.07	0.93
21	5.20e-04	5.99e-03	0.0	35,44,0	2.96e-05	1.27e-03	3.56e-03	34,34,34	0.0	0	0.94	0.03	0.97
	3.76e-03	2.55e-03	0.0	34,35,0	1.97e-05	8.61e-03	4.78e-03	34,34,34			1.00	0.07	0.93
22	2.23e-03	6.95e-03	0.0	35,44,0	3.73e-05	4.81e-03	6.90e-03	34,35,34	0.0	0	0.94	0.03	0.97
	3.76e-03	2.55e-03	0.0	34,35,0	2.47e-05	8.61e-03	5.23e-03	34,34,33			1.00	0.07	0.93
23	2.23e-03	9.99e-03	0.0	35,44,0	3.73e-05	4.81e-03	6.90e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	35,34,0	2.47e-05	0.04	0.02	34,35,34			1.00	0.07	0.93
24	0.0	9.99e-03	0.0	0,44,0	1.49e-05	2.04e-03	4.83e-03	34,36,44	0.0	0	0.0	0.0	0.0
	0.01	0.01	0.0	35,34,0	2.27e-05	0.04	0.02	34,35,34			1.00	0.07	0.93
488	9.75e-03	0.02	0.0	35,44,0	2.58e-05	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.92e-03	0.0	35,34,0	8.74e-05	0.05	0.04	34,33,34			1.00	0.07	0.93
489	9.75e-03	0.02	0.0	35,44,0	2.58e-05	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.92e-03	0.0	35,34,0	8.74e-05	0.05	0.04	34,33,34			1.00	0.07	0.93
490	0.02	0.02	0.0	35,34,0	2.96e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	3.76e-03	2.55e-03	0.0	34,35,0	1.97e-05	8.61e-03	4.78e-03	34,34,34			1.00	0.07	0.93
491	0.02	0.02	0.0	35,34,0	3.73e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	4.87e-03	3.82e-03	0.0	35,34,0	2.47e-05	0.01	5.90e-03	34,35,34			1.00	0.07	0.93
492	8.56e-03	0.01	0.0	35,34,0	3.73e-05	7.11e-03	6.90e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	2.47e-05	0.07	0.02	34,35,34			1.00	0.07	0.93
493	1.57e-03	9.99e-03	0.0	35,44,0	1.49e-05	2.33e-03	4.83e-03	34,35,44	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	2.27e-05	0.07	0.02	34,35,34			1.00	0.07	0.93
849	1.54e-03	0.01	0.0	35,44,0	3.78e-05	7.42e-04	4.58e-03	35,35,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,35,0	4.10e-05	0.05	0.02	35,34,33			1.00	0.07	0.93
850	1.54e-03	0.01	0.0	35,44,0	3.78e-05	7.42e-04	4.58e-03	35,35,44	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,35,0	4.10e-05	0.05	0.02	35,34,33			1.00	0.07	0.93
851	0.02	0.02	0.0	35,34,0	6.05e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.08e-03	0.0	35,34,0	4.19e-05	0.02	8.41e-03	34,35,34			1.00	0.07	0.93
852	0.02	0.02	0.0	35,34,0	6.05e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.08e-03	0.0	35,34,0	4.19e-05	0.02	8.41e-03	34,35,34			1.00	0.07	0.93
853	8.56e-03	0.01	0.0	35,34,0	1.77e-05	8.77e-03	7.53e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	1.76e-05	0.07	0.02	34,35,34			1.00	0.07	0.93
854	3.17e-03	8.68e-03	0.0	35,44,0	1.44e-05	2.48e-03	4.30e-03	34,35,44	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	1.76e-05	0.07	0.02	34,35,34			1.00	0.07	0.93
1260	2.44e-03	7.49e-03	0.0	35,28,0	3.78e-05	1.65e-03	3.71e-03	35,35,34	0.0	0	0.94	0.03	0.97
	0.05	0.03	0.0	34,35,0	4.10e-05	0.10	0.02	35,34,33			1.00	0.07	0.93
1261	4.55e-03	7.49e-03	0.0	35,28,0	4.09e-05	6.55e-03	5.55e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.05	0.03	0.0	34,35,0	4.10e-05	0.10	0.02	35,34,33			1.00	0.07	0.93
1262	0.02	0.02	0.0	35,34,0	6.05e-05	0.01	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	35,34,0	4.19e-05	0.03	9.32e-03	34,35,34			1.00	0.07	0.93
1263	0.02	0.02	0.0	35,34,0	6.05e-05	0.01	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	35,34,0	4.19e-05	0.03	9.32e-03	34,35,34			1.00	0.07	0.93
1264	6.97e-03	7.86e-03	0.0	35,44,0	1.96e-05	8.77e-03	7.53e-03	36,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	1.72e-05	0.06	0.02	12,35,34			1.00	0.07	0.93
1265	3.17e-03	7.86e-03	0.0	35,44,0	1.96e-05	2.48e-03	4.27e-03	36,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	1.53e-05	0.06	0.02	36,35,34			1.00	0.07	0.93
1743	7.62e-03	0.01	0.0	35,34,0	2.87e-05	0.02	0.02	8,35,34	0.0	0	0.94	0.03	0.97
	0.05	0.03	0.0	34,35,0	2.87e-05	0.10	0.02	8,34,35			1.00	0.07	0.93
1744	0.01	0.01	0.0	35,34,0	4.09e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.05	0.03	0.0	34,35,0	3.08e-05	0.10	0.02	34,34,35			1.00	0.07	0.93
1745	0.02	0.02	0.0	35,34,0	4.09e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	35,34,0	3.08e-05	0.03	9.32e-03	34,35,34			1.00	0.07	0.93
1746	0.02	0.02	0.0	35,34,0	2.63e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	35,34,0	9.66e-06	0.03	9.32e-03	12,35,34			1.00	0.07	0.93
1747	0.01	0.01	0.0	35,34,0	2.63e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.26e-03	0.0	34,35,0	1.53e-05	0.03	7.78e-03	36,36,35			1.00	0.07	0.93
1748	0.01	0.01	0.0	35,34,0	1.96e-05	0.02	0.02	36,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.26e-03	0.0	34,35,0	1.53e-05	0.03	7.78e-03	36,36,35			1.00	0.07	0.93
2354	7.62e-03	0.01	0.0	35,34,0	2.87e-05	0.02	0.02	8,35,34	0.0	0	0.94	0.03	0.97
	7.70e-03	5.25e-03	0.0	35,35,0	2.87e-05	0.02	5.73e-03	8,35,35			1.00	0.07	0.93
2355	0.01	0.01	0.0	35,34,0	2.87e-05	0.02	0.02	8,35,34	0.0	0	0.94	0.03	0.97
	7.70e-03	5.25e-03	0.0	35,35,0	2.87e-05	0.02	5.73e-03	8,35,35			1.00	0.07	0.93
2356	0.02	0.02	0.0	35,34,0	1.45e-05	0.03	0.02	8,35,34	0.0	0	0.94	0.03	0.97
	6.16e-03	2.92e-03	0.0	34,35,0	1.45e-05	0.01	1.59e-03	8,34,35			1.00	0.07	0.93
2357	0.02	0.02	0.0	35,34,0	2.63e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	6.16e-03	2.92e-03	0.0	34,35,0	6.40e-06	0.01	1.59e-03	34,34,35			1.00	0.07	0.93
2358	0.01	0.01	0.0	35,34,0	2.63e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	4.90e-03	1.72e-03	0.0	34,35,0	7.16e-06	9.26e-03	1.87e-03	38,34,34			1.00	0.07	0.93
2359	0.01	0.01	0.0	35,34,0	8.60e-06	0.02	0.02	44,35,34	0.0	0	0.94	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



3.34e-03 7.97e-04 0.0 28,35,0 7.16e-06 5.66e-03 1.87e-03 38,34,34 1.00 0.07 0.93

Nodo V. 127 V. 128 V. 545 V. 129 V. 130 V. 131 V. D.26
 0.05 0.03 0.0 8.74e-05 0.10 0.04 0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
85	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	cm 10.0	SI	ok

V. connes. ok **V. piede** 0.07 **Azione V daN** -1471.6 **Rif. cmb** 34 **V. testa** 0.10 **Azione V daN** -191.0 **Rif. cmb** 28 **V. h-d** 0.03 **Azione N daN** -3899.0 **Azione M daN cm** 8.800e+04 **Rif. cmb** 45

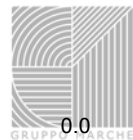
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
19	0.0	7.39e-03	0.0	0,38,0	4.83e-05	1.07e-04	2.70e-03	44,12,38	0.0	0	0.0	0.0	0.0
	2.53e-04	1.64e-03	0.0	45,34,0	4.83e-05	3.28e-04	5.32e-04	44,45,34			1.00	0.07	0.93
57	0.0	0.02	0.0	0,2,0	5.04e-05	1.07e-04	7.13e-03	44,12,2	0.0	0	0.0	0.0	0.0
	1.19e-03	1.64e-03	0.0	44,34,0	5.03e-05	1.41e-03	5.32e-04	44,44,34			1.00	0.07	0.93
66	0.0	0.02	0.0	0,2,0	5.59e-05	3.03e-05	8.21e-03	44,12,2	0.0	0	0.0	0.0	0.0
	1.19e-03	1.05e-03	0.0	44,35,0	5.58e-05	1.41e-03	3.02e-04	44,44,36			1.00	0.07	0.93
74	0.0	0.03	0.0	0,28,0	5.59e-05	1.55e-05	0.01	44,8,28	0.0	0	0.0	0.0	0.0
	7.73e-04	7.00e-04	0.0	46,34,0	5.58e-05	9.18e-04	2.04e-04	44,44,34			1.00	0.07	0.93
82	0.0	0.03	0.0	0,28,0	3.90e-05	1.55e-05	0.01	44,8,28	0.0	0	0.0	0.0	0.0
	6.80e-04	4.58e-04	0.0	44,35,0	3.89e-05	8.03e-04	1.32e-04	44,44,35			1.00	0.07	0.93
91	0.0	0.03	0.0	0,38,0	3.45e-05	2.35e-06	9.50e-03	34,8,38	0.0	0	0.0	0.0	0.0
	5.46e-04	3.34e-04	0.0	34,45,0	3.44e-05	6.45e-04	9.50e-05	34,34,45			1.00	0.07	0.93
100	0.0	0.03	0.0	0,38,0	4.63e-05	2.35e-06	9.50e-03	34,8,38	0.0	0	0.0	0.0	0.0
	5.46e-04	3.34e-04	0.0	34,45,0	4.62e-05	6.45e-04	9.50e-05	34,34,45			1.00	0.07	0.93
106	0.0	0.02	0.0	0,2,0	4.79e-05	4.72e-06	7.87e-03	34,8,2	0.0	0	0.0	0.0	0.0
	5.81e-04	2.84e-04	0.0	34,45,0	4.78e-05	6.86e-04	8.08e-05	34,34,45			1.00	0.07	0.93
113	0.0	0.02	0.0	0,2,0	4.79e-05	4.72e-06	7.71e-03	34,8,2	0.0	0	0.0	0.0	0.0
	1.57e-03	2.25e-04	0.0	28,45,0	4.78e-05	1.85e-03	6.47e-05	34,28,45			1.00	0.07	0.93
119	0.0	0.02	0.0	0,2,0	4.40e-05	3.32e-06	7.71e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.57e-03	3.60e-04	0.0	28,44,0	4.38e-05	1.85e-03	1.05e-04	34,28,44			1.00	0.07	0.93
138	0.0	8.49e-03	0.0	0,2,0	4.37e-05	3.32e-06	3.05e-03	34,12,2	0.0	0	0.0	0.0	0.0
	3.25e-04	3.60e-04	0.0	35,44,0	4.37e-05	3.86e-04	1.05e-04	34,35,44			1.00	0.07	0.93
488	0.0	0.01	0.0	0,38,0	4.83e-05	1.07e-04	3.63e-03	44,12,38	0.0	0	0.0	0.0	0.0
	8.14e-04	1.67e-03	0.0	45,34,0	4.83e-05	9.63e-04	5.32e-04	44,45,34			1.00	0.07	0.93
526	0.0	0.02	0.0	0,2,0	5.04e-05	1.07e-04	7.13e-03	44,12,2	0.0	0	0.0	0.0	0.0
	1.19e-03	1.67e-03	0.0	44,34,0	5.03e-05	1.41e-03	5.32e-04	44,44,34			1.00	0.07	0.93
535	0.0	0.02	0.0	0,2,0	5.59e-05	3.03e-05	8.21e-03	44,12,2	0.0	0	0.0	0.0	0.0
	1.19e-03	1.08e-03	0.0	44,34,0	5.58e-05	1.41e-03	3.17e-04	44,44,34			1.00	0.07	0.93
543	0.0	0.03	0.0	0,28,0	5.59e-05	1.55e-05	0.01	44,8,28	0.0	0	0.0	0.0	0.0
	7.73e-04	7.64e-04	0.0	46,34,0	5.58e-05	9.18e-04	2.29e-04	44,44,34			1.00	0.07	0.93
551	0.0	0.03	0.0	0,28,0	3.90e-05	1.55e-05	0.01	44,8,28	0.0	0	0.0	0.0	0.0
	6.80e-04	4.58e-04	0.0	44,35,0	3.89e-05	8.03e-04	1.32e-04	44,44,35			1.00	0.07	0.93
560	0.0	0.03	0.0	0,38,0	3.45e-05	2.93e-06	9.50e-03	34,8,38	0.0	0	0.0	0.0	0.0
	5.46e-04	3.34e-04	0.0	34,45,0	3.44e-05	6.45e-04	9.50e-05	34,34,45			1.00	0.07	0.93
569	0.0	0.03	0.0	0,38,0	4.63e-05	2.93e-06	9.50e-03	34,8,38	0.0	0	0.0	0.0	0.0
	5.46e-04	3.34e-04	0.0	34,45,0	4.62e-05	6.45e-04	9.50e-05	34,34,45			1.00	0.07	0.93
575	0.0	0.02	0.0	0,2,0	4.79e-05	4.72e-06	7.87e-03	34,8,2	0.0	0	0.0	0.0	0.0
	5.81e-04	2.84e-04	0.0	34,45,0	4.78e-05	6.86e-04	8.08e-05	34,34,45			1.00	0.07	0.93
582	0.0	0.02	0.0	0,2,0	4.79e-05	5.59e-06	7.71e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.57e-03	2.25e-04	0.0	28,45,0	4.78e-05	1.85e-03	6.47e-05	34,28,45			1.00	0.07	0.93
588	0.0	0.02	0.0	0,2,0	4.40e-05	6.30e-06	7.71e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.57e-03	3.60e-04	0.0	28,44,0	4.38e-05	1.85e-03	1.05e-04	34,28,44			1.00	0.07	0.93
607	0.0	0.01	0.0	0,2,0	4.37e-05	6.30e-06	4.30e-03	34,12,2	0.0	0	0.0	0.0	0.0
	8.12e-04	3.60e-04	0.0	28,44,0	4.37e-05	9.73e-04	1.05e-04	34,28,44			1.00	0.07	0.93
849	0.0	0.01	0.0	0,2,0	3.95e-05	1.12e-04	3.70e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.31e-03	1.82e-03	0.0	44,35,0	3.94e-05	1.54e-03	5.20e-04	44,44,34			1.00	0.07	0.93
884	0.0	0.02	0.0	0,2,0	4.17e-05	1.12e-04	6.42e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.31e-03	1.82e-03	0.0	44,35,0	4.16e-05	1.54e-03	5.20e-04	44,44,34			1.00	0.07	0.93
893	0.0	0.02	0.0	0,2,0	5.28e-05	2.66e-05	7.95e-03	44,12,2	0.0	0	0.0	0.0	0.0
	8.68e-04	1.23e-03	0.0	44,35,0	5.27e-05	1.07e-03	3.48e-04	44,44,35			1.00	0.07	0.93
901	0.0	0.03	0.0	0,2,0	5.28e-05	8.50e-06	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	5.37e-04	7.64e-04	0.0	46,34,0	5.27e-05	6.50e-04	2.29e-04	44,46,34			1.00	0.07	0.93
909	0.0	0.03	0.0	0,2,0	3.28e-05	8.50e-06	0.01	44,12,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



918	1.85e-04	7.20e-04	0.0	45,44,0	3.26e-05	2.20e-04	2.03e-04	44,46,44	0.0	0	1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	4.28e-05	3.29e-06	9.63e-03	34,8,2	0.0	0	0.0	0.0	0.0
	1.14e-03	1.36e-03	0.0	45,34,0	4.26e-05	1.34e-03	3.87e-03	34,45,34	0.0	0	1.00	0.07	0.93
927	0.0	0.03	0.0	0,2,0	4.56e-05	3.29e-06	9.63e-03	34,8,2	0.0	0	0.0	0.0	0.0
	1.14e-03	1.36e-03	0.0	45,34,0	4.55e-05	1.34e-03	3.87e-04	34,45,34	0.0	0	1.00	0.07	0.93
933	0.0	0.02	0.0	0,2,0	4.56e-05	2.54e-06	7.65e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.07e-03	1.09e-03	0.0	45,34,0	4.55e-05	1.26e-03	3.10e-04	34,45,34	0.0	0	1.00	0.07	0.93
940	0.0	0.02	0.0	0,2,0	4.14e-05	5.59e-06	7.03e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.07e-03	5.26e-04	0.0	28,36,0	4.13e-05	1.27e-03	1.50e-04	34,28,36	0.0	0	1.00	0.07	0.93
946	0.0	0.02	0.0	0,2,0	3.04e-05	2.51e-05	6.83e-03	34,8,2	0.0	0	0.0	0.0	0.0
	1.07e-03	1.54e-04	0.0	28,35,0	3.04e-05	1.27e-03	4.43e-05	34,28,35	0.0	0	1.00	0.07	0.93
965	0.0	0.01	0.0	0,2,0	3.04e-05	2.51e-05	4.76e-03	34,8,2	0.0	0	0.0	0.0	0.0
	8.86e-04	0.0	0.0	2,0,0	3.04e-05	1.06e-03	1.80e-05	34,2,12	0.0	0	1.00	0.07	0.93
1260	0.0	0.01	0.0	0,2,0	3.20e-05	1.12e-04	3.70e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.66e-03	1.82e-03	0.0	44,35,0	3.18e-05	2.00e-03	5.19e-04	44,44,36	0.0	0	1.00	0.07	0.93
1295	0.0	0.02	0.0	0,2,0	3.20e-05	1.12e-04	6.15e-03	44,8,2	0.0	0	0.0	0.0	0.0
	2.21e-03	1.82e-03	0.0	38,35,0	3.18e-05	2.69e-03	5.19e-04	44,38,36	0.0	0	1.00	0.07	0.93
1303	0.0	0.02	0.0	0,2,0	3.37e-05	2.66e-05	7.55e-03	44,12,2	0.0	0	0.0	0.0	0.0
	2.50e-03	1.23e-03	0.0	38,35,0	3.36e-05	2.98e-03	3.48e-04	44,38,35	0.0	0	1.00	0.07	0.93
1310	0.0	0.03	0.0	0,2,0	5.00e-05	8.50e-06	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	3.72e-03	7.68e-04	0.0	2,35,0	4.98e-05	4.38e-03	2.22e-04	44,2,35	0.0	0	1.00	0.07	0.93
1318	0.0	0.03	0.0	0,2,0	5.00e-05	8.50e-06	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	4.85e-03	1.26e-03	0.0	38,35,0	4.98e-05	5.71e-03	3.59e-04	44,38,35	0.0	0	1.00	0.07	0.93
1326	0.0	0.03	0.0	0,2,0	5.42e-05	3.33e-06	9.63e-03	28,12,2	0.0	0	0.0	0.0	0.0
	4.85e-03	1.64e-03	0.0	38,35,0	5.40e-05	5.71e-03	4.64e-04	28,38,35	0.0	0	1.00	0.07	0.93
1340	0.0	0.03	0.0	0,2,0	5.42e-05	3.29e-06	9.63e-03	28,8,2	0.0	0	0.0	0.0	0.0
	4.41e-03	1.64e-03	0.0	44,35,0	5.40e-05	5.21e-03	4.64e-04	28,44,35	0.0	0	1.00	0.07	0.93
1348	0.0	0.02	0.0	0,2,0	3.74e-05	1.88e-06	7.27e-03	34,12,2	0.0	0	0.0	0.0	0.0
	2.91e-03	1.27e-03	0.0	44,35,0	3.73e-05	3.44e-03	3.60e-04	34,44,35	0.0	0	1.00	0.07	0.93
1356	0.0	0.02	0.0	0,2,0	2.96e-05	5.19e-06	6.70e-03	34,12,2	0.0	0	0.0	0.0	0.0
	2.06e-03	7.61e-04	0.0	44,35,0	2.95e-05	2.45e-03	2.16e-04	34,44,35	0.0	0	1.00	0.07	0.93
1364	0.0	0.02	0.0	0,2,0	2.77e-05	2.51e-05	6.26e-03	45,8,2	0.0	0	0.0	0.0	0.0
	1.72e-03	2.95e-04	0.0	38,35,0	2.77e-05	2.07e-03	8.48e-05	45,38,35	0.0	0	1.00	0.07	0.93
1379	0.0	0.01	0.0	0,2,0	2.32e-05	2.51e-05	4.88e-03	34,8,2	0.0	0	0.0	0.0	0.0
	1.14e-03	0.0	0.0	2,0,0	2.31e-05	1.38e-03	4.14e-05	34,2,12	0.0	0	1.00	0.07	0.93
1743	0.0	0.01	0.0	0,2,0	1.08e-04	4.66e-05	3.69e-03	38,8,2	0.0	0	0.0	0.0	0.0
	1.66e-03	1.46e-03	0.0	44,35,0	1.08e-04	2.00e-03	4.28e-04	38,44,35	0.0	0	1.00	0.07	0.93
1786	0.0	0.02	0.0	0,2,0	1.08e-04	4.66e-05	6.15e-03	38,8,2	0.0	0	0.0	0.0	0.0
	2.21e-03	1.46e-03	0.0	38,35,0	1.08e-04	2.69e-03	4.28e-04	38,38,35	0.0	0	1.00	0.07	0.93
1800	0.0	0.02	0.0	0,2,0	2.45e-05	2.00e-05	6.96e-03	44,8,2	0.0	0	0.0	0.0	0.0
	2.50e-03	1.39e-03	0.0	38,34,0	2.44e-05	2.98e-03	4.05e-04	44,38,34	0.0	0	1.00	0.07	0.93
1813	0.0	0.02	0.0	0,2,0	7.28e-05	1.02e-05	8.06e-03	44,8,2	0.0	0	0.0	0.0	0.0
	3.72e-03	1.58e-03	0.0	2,36,0	7.27e-05	4.38e-03	4.72e-04	44,2,36	0.0	0	1.00	0.07	0.93
1827	0.0	0.02	0.0	0,2,0	7.28e-05	1.02e-05	8.06e-03	44,8,2	0.0	0	0.0	0.0	0.0
	4.85e-03	2.12e-03	0.0	38,34,0	7.27e-05	5.71e-03	6.16e-04	44,38,34	0.0	0	1.00	0.07	0.93
1841	0.0	0.02	0.0	0,2,0	6.49e-05	6.19e-06	7.81e-03	28,12,2	0.0	0	0.0	0.0	0.0
	4.85e-03	2.12e-03	0.0	38,34,0	6.48e-05	5.71e-03	6.16e-04	28,38,34	0.0	0	1.00	0.07	0.93
1856	0.0	0.02	0.0	0,2,0	6.49e-05	3.82e-06	7.81e-03	28,18,2	0.0	0	0.0	0.0	0.0
	4.41e-03	1.64e-03	0.0	44,35,0	6.48e-05	5.21e-03	4.64e-04	28,44,35	0.0	0	1.00	0.07	0.93
1865	0.0	0.02	0.0	0,2,0	1.95e-05	2.28e-06	6.68e-03	34,38,2	0.0	0	0.0	0.0	0.0
	2.91e-03	1.27e-03	0.0	44,35,0	1.95e-05	3.44e-03	3.60e-04	34,44,35	0.0	0	1.00	0.07	0.93
1874	0.0	0.02	0.0	0,2,0	1.91e-05	9.09e-06	6.36e-03	45,12,2	0.0	0	0.0	0.0	0.0
	2.06e-03	7.61e-04	0.0	44,35,0	1.91e-05	2.45e-03	2.16e-04	45,44,35	0.0	0	1.00	0.07	0.93
1883	0.0	0.02	0.0	0,2,0	2.00e-05	1.85e-05	6.03e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.72e-03	7.09e-04	0.0	38,44,0	1.99e-05	2.07e-03	2.06e-04	34,38,38	0.0	0	1.00	0.07	0.93
1902	0.0	0.01	0.0	0,2,0	2.00e-05	1.85e-05	4.88e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.14e-03	7.09e-04	0.0	2,44,0	1.99e-05	1.38e-03	2.06e-04	34,2,38	0.0	0	1.00	0.07	0.93
2354	0.0	9.77e-03	0.0	0,2,0	1.08e-04	2.34e-05	3.53e-03	38,8,2	0.0	0	0.0	0.0	0.0
	1.25e-03	1.21e-03	0.0	44,36,0	1.08e-04	1.49e-03	3.65e-04	38,44,34	0.0	0	1.00	0.07	0.93
2461	0.0	0.02	0.0	0,2,0	1.08e-04	2.34e-05	6.05e-03	38,8,2	0.0	0	0.0	0.0	0.0
	1.25e-03	1.39e-03	0.0	44,34,0	1.08e-04	1.49e-03	4.05e-04	38,44,34	0.0	0	1.00	0.07	0.93
2480	0.0	0.02	0.0	0,2,0	2.45e-05	2.00e-05	6.40e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.42e-03	1.39e-03	0.0	43,34,0	2.44e-05	1.68e-03	4.05e-04	44,43,34	0.0	0	1.00	0.07	0.93
2498	0.0	0.02	0.0	0,2,0	7.28e-05	1.02e-05	6.88e-03	44,8,2	0.0	0	0.0	0.0	0.0
	2.01e-03	1.58e-03	0.0	43,36,0	7.27e-05	2.38e-03	4.72e-04	44,43,36	0.0	0	1.00	0.07	0.93
2559	0.0	0.02	0.0	0,2,0	7.28e-05	1.02e-05	6.88e-03	44,8,2	0.0	0	0.0	0.0	0.0
	2.01e-03	2.12e-03	0.0	43,34,0	7.27e-05	2.38e-03	6.16e-04	44,43,34	0.0	0	1.00	0.07	0.93
2576	0.0	0.02	0.0	0,2,0	6.49e-05	6.19e-06	6.49e-03	28,12,2	0.0	0	0.0	0.0	0.0
	1.15e-03	2.12e-03	0.0	45,34,0	6.48e-05	1.36e-03	6.16e-04	28,45,34	0.0	0	1.00	0.07	0.93
2603	0.0	0.02	0.0	0,2,0	6.49e-05	3.82e-06	6.49e-03	28,18,2	0.0	0	0.0	0.0	0.0
	7.77e-04	1.37e-03	0.0	44,34,0	6.48e-05	9.29e-04	3.91e-04	28,44,34	0.0	0	1.00	0.07	0.93
2616	0.0	0.02	0.0	0,2,0	1.52e-05	2.28e-06	6.11e-03	34,38,2	0.0	0	0.0	0.0	0.0
	7.97e-04	8.58e-04	0.0	38,35,0	1.51e-05	9.62e-04	2.46e-04	34,38,35	0.0	0	1.00	0.07	0.93
2633	0.0	0.02	0.0	0,2,0	1.30e-05	9.09e-06	6.00e-03	45,12,2	0.0	0	0.0	0.0	0.0
	7.97e-04	6.96e-04	0.0	38,35,0	1.30e-05	9.62e-04	1.98e-04	45,38,35	0.0	0	1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2650	0.0	0.02	0.0	0,2,0	1.36e-05	1.85e-05	5.69e-03	34,12,2	0.0	0	0.0	0.0	0.0
	5.45e-04	7.09e-04	0.0	2,44,0	1.35e-05	6.61e-04	2.06e-04	34,2,38			1.00	0.07	0.93
2677	0.0	0.01	0.0	0,2,0	1.36e-05	1.85e-05	4.54e-03	34,12,2	0.0	0	0.0	0.0	0.0
	0.0	7.09e-04	0.0	0,44,0	1.35e-05	3.77e-05	2.06e-04	34,12,38			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	4.85e-03	0.03	0.0		1.08e-04	5.71e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
86	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.02	386.8	12	0.05	718.5	8	0.07	-2982.7	-2.804e+05	38

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
24	4.75e-03	0.01	0.0	35,44,0	3.76e-05	8.48e-03	9.68e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	2.73e-05	0.07	0.01	34,35,34			1.00	0.07	0.93
25	4.75e-03	0.01	0.0	35,44,0	2.63e-04	8.48e-03	9.68e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	1.63e-04	0.07	0.01	34,35,34			1.00	0.07	0.93
26	1.56e-03	2.05e-03	0.0	35,34,0	2.63e-04	4.92e-03	4.87e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	1.63e-04	0.06	0.01	34,34,34			1.00	0.07	0.93
27	0.02	0.01	0.0	36,33,0	7.22e-05	0.04	0.03	34,36,33	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	4.47e-05	0.06	0.01	34,34,35			1.00	0.07	0.93
28	0.02	0.01	0.0	36,33,0	6.45e-05	0.04	0.03	34,36,33	0.0	0	0.94	0.03	0.97
	0.01	8.49e-03	0.0	34,35,0	2.67e-05	0.03	0.01	34,34,35			1.00	0.07	0.93
29	0.01	0.01	0.0	36,33,0	6.45e-05	0.03	0.03	34,36,34	0.0	0	0.94	0.03	0.97
	1.60e-03	1.09e-03	0.0	35,34,0	2.67e-05	5.23e-03	4.68e-03	34,35,35			1.00	0.07	0.93
30	9.70e-03	0.01	0.0	35,34,0	6.95e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	4.37e-03	3.13e-03	0.0	35,34,0	3.96e-05	0.01	4.86e-03	34,35,34			1.00	0.07	0.93
31	6.32e-03	0.02	0.0	35,38,0	1.03e-04	0.02	0.02	33,35,34	0.0	0	0.94	0.03	0.97
	4.37e-03	3.13e-03	0.0	35,34,0	6.74e-05	0.01	0.01	33,35,34			1.00	0.07	0.93
32	2.23e-03	0.02	0.0	35,38,0	1.03e-04	8.82e-03	0.01	33,35,34	0.0	0	0.94	0.03	0.97
	3.42e-03	2.39e-03	0.0	35,34,0	6.74e-05	0.01	0.01	33,35,34			1.00	0.07	0.93
493	4.75e-03	0.01	0.0	35,44,0	3.76e-05	8.48e-03	9.68e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	4.21e-05	0.07	0.03	34,35,34			1.00	0.07	0.93
494	4.75e-03	0.01	0.0	35,44,0	2.63e-04	8.48e-03	9.68e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	1.63e-04	0.07	0.03	34,35,34			1.00	0.07	0.93
495	1.56e-03	2.05e-03	0.0	35,34,0	2.63e-04	4.92e-03	4.87e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	1.63e-04	0.06	0.01	34,34,34			1.00	0.07	0.93
496	0.06	0.04	0.0	36,33,0	7.22e-05	0.05	0.04	34,36,33	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	4.47e-05	0.06	0.01	34,34,35			1.00	0.07	0.93
497	0.06	0.04	0.0	36,33,0	6.67e-05	0.05	0.04	34,36,33	0.0	0	0.94	0.03	0.97
	0.01	8.49e-03	0.0	34,35,0	2.67e-05	0.03	0.01	34,34,35			1.00	0.07	0.93
498	0.04	0.04	0.0	36,33,0	6.45e-05	0.04	0.03	34,36,33	0.0	0	0.94	0.03	0.97
	5.63e-03	4.23e-03	0.0	35,34,0	2.67e-05	0.01	4.68e-03	34,33,35			1.00	0.07	0.93
499	0.03	0.03	0.0	35,34,0	6.95e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	33,34,0	3.96e-05	0.03	5.20e-03	34,34,34			1.00	0.07	0.93
500	0.02	0.02	0.0	35,34,0	1.03e-04	0.02	0.02	33,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	33,34,0	6.74e-05	0.03	0.01	33,34,34			1.00	0.07	0.93
501	7.63e-03	0.02	0.0	35,38,0	1.03e-04	9.37e-03	0.01	33,35,34	0.0	0	0.94	0.03	0.97
	8.19e-03	6.07e-03	0.0	33,34,0	6.74e-05	0.02	0.01	33,33,34			1.00	0.07	0.93
854	2.48e-03	0.01	0.0	35,38,0	1.29e-05	4.12e-03	6.78e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	4.21e-05	0.06	0.03	34,35,34			1.00	0.07	0.93
855	2.48e-03	0.01	0.0	35,38,0	1.29e-05	4.12e-03	6.78e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	35,34,0	4.21e-05	0.06	0.03	34,35,34			1.00	0.07	0.93
856	0.07	0.05	0.0	36,33,0	6.67e-05	0.06	0.04	34,36,33	0.0	0	0.94	0.03	0.97
	0.01	8.38e-03	0.0	35,34,0	2.38e-05	0.03	8.62e-03	34,35,34			1.00	0.07	0.93
857	0.07	0.05	0.0	36,33,0	6.67e-05	0.06	0.04	34,36,33	0.0	0	0.94	0.03	0.97
	0.01	8.38e-03	0.0	35,34,0	2.38e-05	0.03	8.62e-03	34,35,34			1.00	0.07	0.93
858	0.05	0.04	0.0	36,33,0	4.16e-05	0.04	0.03	34,36,33	0.0	0	0.94	0.03	0.97
	8.79e-03	7.14e-03	0.0	35,34,0	1.44e-05	0.02	5.21e-03	34,35,34			1.00	0.07	0.93
859	0.04	0.03	0.0	35,34,0	3.60e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	1.91e-05	0.04	6.87e-03	34,35,34			1.00	0.07	0.93
860	0.03	0.02	0.0	35,34,0	5.41e-05	0.02	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	3.81e-05	0.04	0.01	35,35,34			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



861	8.29e-03	0.02	0.0	35,38,0	5.41e-05	9.37e-03	9.46e-03	35,35,34	0.0	0	0.94	0.03	0.97
	0.01	9.02e-03	0.0	34,34,0	3.81e-05	0.03	0.01	35,34,34			1.00	0.07	0.93
1265	4.19e-04	8.29e-03	0.0	35,38,0	5.51e-06	2.90e-03	5.65e-03	8,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,33,0	1.57e-05	0.05	0.02	35,34,34			1.00	0.07	0.93
1266	4.19e-04	8.29e-03	0.0	35,38,0	5.51e-06	2.90e-03	5.65e-03	8,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	34,33,0	1.57e-05	0.05	0.02	35,34,34			1.00	0.07	0.93
1267	0.07	0.05	0.0	36,33,0	1.00e-04	0.06	0.03	34,36,33	0.0	0	0.94	0.03	0.97
	0.01	8.38e-03	0.0	35,34,0	5.08e-05	0.03	8.62e-03	34,35,34			1.00	0.07	0.93
1268	0.07	0.05	0.0	36,33,0	1.00e-04	0.06	0.03	34,36,33	0.0	0	0.94	0.03	0.97
	0.01	8.38e-03	0.0	35,34,0	5.08e-05	0.03	8.62e-03	34,35,34			1.00	0.07	0.93
1269	0.05	0.04	0.0	36,33,0	5.79e-05	0.04	0.04	34,36,33	0.0	0	0.94	0.03	0.97
	8.79e-03	7.14e-03	0.0	35,34,0	2.77e-05	0.02	5.21e-03	34,35,34			1.00	0.07	0.93
1270	0.04	0.03	0.0	35,34,0	4.79e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	2.41e-05	0.04	6.87e-03	34,35,34			1.00	0.07	0.93
1271	0.03	0.02	0.0	35,34,0	6.68e-05	0.02	0.02	34,35,28	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	5.59e-05	0.04	0.01	38,35,34			1.00	0.07	0.93
1272	8.29e-03	0.02	0.0	35,28,0	6.68e-05	9.42e-03	0.02	34,34,28	0.0	0	0.94	0.03	0.97
	0.01	9.02e-03	0.0	34,34,0	5.59e-05	0.03	0.01	38,34,34			1.00	0.07	0.93
1748	5.55e-03	8.82e-03	0.0	35,34,0	1.34e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	7.69e-03	0.0	34,35,0	6.29e-06	0.02	0.01	38,34,35			1.00	0.07	0.93
1749	5.55e-03	8.82e-03	0.0	35,34,0	2.74e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	7.69e-03	0.0	34,35,0	1.79e-05	0.02	0.01	34,34,35			1.00	0.07	0.93
1750	0.01	0.01	0.0	35,34,0	1.98e-04	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	5.92e-03	0.0	34,35,0	1.18e-04	0.02	6.95e-03	34,34,35			1.00	0.07	0.93
1751	0.03	0.03	0.0	35,34,0	1.98e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	1.18e-04	0.04	8.19e-03	34,35,34			1.00	0.07	0.93
1752	0.03	0.03	0.0	35,34,0	1.00e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	5.08e-05	0.04	8.19e-03	34,35,34			1.00	0.07	0.93
1753	0.02	0.02	0.0	36,33,0	7.22e-05	0.03	0.03	34,36,33	0.0	0	0.94	0.03	0.97
	5.94e-03	6.46e-03	0.0	35,34,0	4.14e-05	0.01	2.94e-03	34,35,34			1.00	0.07	0.93
1754	0.02	0.02	0.0	35,34,0	8.29e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	9.34e-03	9.33e-03	0.0	35,34,0	5.10e-05	0.02	4.18e-03	34,35,34			1.00	0.07	0.93
1755	0.01	0.02	0.0	35,28,0	8.45e-05	0.03	0.03	33,28,28	0.0	0	0.94	0.03	0.97
	9.34e-03	9.33e-03	0.0	35,34,0	5.59e-05	0.02	0.01	38,35,2			1.00	0.07	0.93
1756	9.49e-03	0.02	0.0	28,28,0	8.45e-05	0.03	0.03	33,28,28	0.0	0	0.94	0.03	0.97
	3.74e-03	8.37e-03	0.0	35,28,0	5.59e-05	0.01	0.01	38,2,2			1.00	0.07	0.93
2359	5.55e-03	8.82e-03	0.0	35,34,0	1.34e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	5.47e-03	1.96e-03	0.0	34,35,0	6.29e-06	0.01	2.35e-03	38,34,35			1.00	0.07	0.93
2360	5.55e-03	8.82e-03	0.0	35,34,0	2.74e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	5.92e-03	0.0	34,35,0	1.79e-05	0.02	6.95e-03	34,34,35			1.00	0.07	0.93
2361	0.01	0.01	0.0	35,34,0	1.98e-04	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	5.92e-03	0.0	34,35,0	1.18e-04	0.02	6.95e-03	34,34,35			1.00	0.07	0.93
2362	0.03	0.03	0.0	35,34,0	1.98e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	1.18e-04	0.04	8.19e-03	34,35,34			1.00	0.07	0.93
2363	0.03	0.03	0.0	35,34,0	5.97e-05	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	35,34,0	2.81e-05	0.04	8.19e-03	28,35,34			1.00	0.07	0.93
2364	0.02	0.01	0.0	36,33,0	7.22e-05	0.03	0.03	34,36,33	0.0	0	0.94	0.03	0.97
	1.42e-03	2.54e-03	0.0	35,34,0	4.14e-05	3.98e-03	1.00e-03	34,35,34			1.00	0.07	0.93
2365	0.01	0.01	0.0	35,34,0	8.29e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	2.00e-03	3.39e-03	0.0	45,34,0	5.10e-05	4.29e-03	3.42e-03	34,45,2			1.00	0.07	0.93
2366	9.98e-03	0.01	0.0	35,28,0	8.45e-05	0.03	0.03	33,28,28	0.0	0	0.94	0.03	0.97
	2.45e-03	8.37e-03	0.0	2,28,0	5.21e-05	0.01	0.01	35,2,2			1.00	0.07	0.93
2367	9.49e-03	0.01	0.0	28,28,0	8.45e-05	0.03	0.03	33,28,28	0.0	0	0.94	0.03	0.97
	2.45e-03	8.37e-03	0.0	2,28,0	5.21e-05	0.01	0.01	35,2,2			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.07	0.05	0.0		2.63e-04	0.07	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
87	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.02	-218.7	18	0.05	-738.0	18	0.07	-300.3	-1.057e+05	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2242	0.04	0.04	0.0	45,44,0	0.01	0.07	0.10	44,45,45	0.0	0	0.23	0.12	0.88
	7.78e-03	6.64e-03	0.0	46,44,0	3.66e-03	0.02	0.02	44,46,44			1.00	0.07	0.93
2243	0.04	0.04	0.0	45,44,0	0.01	0.07	0.10	44,45,45	0.0	0	0.23	0.12	0.88
	7.78e-03	6.64e-03	0.0	46,44,0	3.66e-03	0.02	0.02	44,46,44			1.00	0.07	0.93
2244	0.05	0.04	0.0	45,44,0	9.14e-03	0.05	0.08	44,45,44	0.0	0	0.23	0.12	0.88
	2.09e-03	1.58e-03	0.0	45,45,0	3.05e-03	0.01	0.01	44,44,46			1.00	0.07	0.93
2245	0.05	0.04	0.0	43,44,0	3.24e-03	0.06	0.08	44,43,44	0.0	0	0.23	0.12	0.88
	6.24e-04	4.30e-04	0.0	43,45,0	1.05e-03	0.01	0.01	44,43,46			1.00	0.07	0.93
2246	0.05	0.04	0.0	43,44,0	1.34e-03	0.06	0.05	43,43,38	0.0	0	0.23	0.12	0.88
	1.35e-04	1.04e-04	0.0	43,45,0	4.31e-04	0.01	0.01	43,43,46			1.00	0.07	0.93
2247	0.05	0.04	0.0	43,46,0	6.60e-03	0.06	0.05	43,43,40	0.0	0	0.23	0.12	0.88
	4.93e-04	5.55e-04	0.0	45,44,0	2.15e-03	0.01	0.01	43,43,45			1.00	0.07	0.93
2248	0.04	0.03	0.0	43,46,0	0.01	0.05	0.04	43,43,40	0.0	0	0.23	0.12	0.88
	0.01	9.53e-03	0.0	45,44,0	4.53e-03	0.03	9.10e-03	43,45,44			1.00	0.07	0.93
2249	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	43,45,44	0.0	0	0.23	0.12	0.88
	0.01	9.53e-03	0.0	45,44,0	4.53e-03	0.06	0.06	43,44,44			1.00	0.07	0.93
2250	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	1.55e-03	3.42e-03	0.0	45,38,0	4.30e-03	0.06	0.06	44,44,44			1.00	0.07	0.93
2534	0.04	0.04	0.0	45,44,0	0.01	0.07	0.10	44,45,45	0.0	0	0.23	0.12	0.88
	7.78e-03	6.64e-03	0.0	46,44,0	3.66e-03	0.02	0.02	44,46,44			1.00	0.07	0.93
2535	0.04	0.04	0.0	45,44,0	0.01	0.07	0.10	44,45,45	0.0	0	0.23	0.12	0.88
	7.78e-03	6.64e-03	0.0	46,44,0	3.66e-03	0.02	0.02	44,46,44			1.00	0.07	0.93
2536	0.05	0.04	0.0	45,44,0	9.14e-03	0.05	0.08	44,45,44	0.0	0	0.23	0.12	0.88
	2.09e-03	1.58e-03	0.0	45,45,0	3.05e-03	0.01	0.01	44,44,46			1.00	0.07	0.93
2537	0.05	0.04	0.0	43,44,0	3.24e-03	0.06	0.08	44,43,44	0.0	0	0.23	0.12	0.88
	6.24e-04	4.30e-04	0.0	43,45,0	1.05e-03	0.01	0.01	44,43,46			1.00	0.07	0.93
2538	0.05	0.04	0.0	43,44,0	1.34e-03	0.06	0.05	43,43,38	0.0	0	0.23	0.12	0.88
	1.35e-04	1.04e-04	0.0	43,45,0	4.31e-04	0.01	0.01	43,43,46			1.00	0.07	0.93
2539	0.05	0.04	0.0	43,46,0	6.60e-03	0.06	0.05	43,43,40	0.0	0	0.23	0.12	0.88
	4.93e-04	5.55e-04	0.0	45,44,0	2.15e-03	0.01	0.01	43,43,45			1.00	0.07	0.93
2540	0.04	0.03	0.0	43,46,0	0.01	0.05	0.04	43,43,40	0.0	0	0.23	0.12	0.88
	0.01	9.53e-03	0.0	45,44,0	4.53e-03	0.03	9.10e-03	43,45,44			1.00	0.07	0.93
2541	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	43,45,44	0.0	0	0.23	0.12	0.88
	0.01	9.53e-03	0.0	45,44,0	4.53e-03	0.06	0.06	43,44,44			1.00	0.07	0.93
2542	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	1.55e-03	3.42e-03	0.0	45,38,0	4.30e-03	0.06	0.06	44,44,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.04	0.0		0.01	0.07	0.10		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
88	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	-223.0	24	0.02	-98.4	2	0.06	-933.5	-2.821e+04	12

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
52	0.02	0.02	0.0	35,34,0	3.30e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	2.44e-03	2.12e-03	0.0	35,34,0	1.91e-04	0.01	0.01	34,35,34			1.00	0.07	0.93
53	0.02	0.02	0.0	35,34,0	3.30e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	2.44e-03	2.12e-03	0.0	35,34,0	1.91e-04	0.01	0.01	34,35,34			1.00	0.07	0.93
54	0.01	0.01	0.0	35,34,0	3.10e-04	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	1.21e-03	9.63e-04	0.0	35,34,0	1.83e-04	0.01	0.01	34,35,34			1.00	0.07	0.93
55	2.96e-03	0.01	0.0	35,44,0	2.91e-04	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	9.69e-04	7.24e-04	0.0	35,44,0	1.81e-04	0.01	0.01	34,35,34			1.00	0.07	0.93
521	0.06	0.05	0.0	35,34,0	3.30e-04	0.06	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	7.24e-03	5.55e-03	0.0	35,34,0	1.91e-04	0.02	0.01	34,35,34			1.00	0.07	0.93
522	0.06	0.05	0.0	35,34,0	3.30e-04	0.06	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	7.24e-03	5.55e-03	0.0	35,34,0	1.91e-04	0.02	0.01	34,35,34			1.00	0.07	0.93
523	0.04	0.03	0.0	35,34,0	3.10e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	4.54e-03	3.38e-03	0.0	35,34,0	1.83e-04	0.01	0.01	34,35,34			1.00	0.07	0.93
524	0.01	0.01	0.0	35,34,0	2.91e-04	0.02	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	9.69e-04	8.02e-04	0.0	35,24,0	1.81e-04	0.01	0.01	34,35,34			1.00	0.07	0.93
879	0.08	0.06	0.0	35,34,0	1.74e-04	0.06	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	8.99e-03	6.71e-03	0.0	35,34,0	8.82e-05	0.02	0.01	34,35,34			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



880	0.08	0.06	0.0	35,34,0	1.74e-04	0.06	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	8.99e-03	6.71e-03	0.0	35,34,0	8.82e-05	0.02	0.01	34,35,34			1.00	0.07	0.93
881	0.04	0.04	0.0	35,34,0	1.55e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	6.32e-03	4.75e-03	0.0	35,34,0	8.63e-05	0.01	4.82e-03	34,35,34			1.00	0.07	0.93
882	0.01	0.01	0.0	35,34,0	1.30e-04	0.02	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	6.59e-04	8.85e-04	0.0	12,24,0	7.83e-05	4.91e-03	4.82e-03	34,35,34			1.00	0.07	0.93
1290	0.08	0.06	0.0	35,34,0	2.17e-04	0.06	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	8.99e-03	6.71e-03	0.0	35,34,0	1.04e-04	0.02	0.01	34,35,34			1.00	0.07	0.93
1291	0.08	0.06	0.0	35,34,0	2.17e-04	0.06	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	8.99e-03	6.71e-03	0.0	35,34,0	1.04e-04	0.02	0.01	34,35,34			1.00	0.07	0.93
1292	0.04	0.04	0.0	35,34,0	1.81e-04	0.04	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	6.32e-03	4.75e-03	0.0	35,34,0	1.02e-04	0.01	3.99e-03	34,35,34			1.00	0.07	0.93
1293	0.01	0.01	0.0	35,34,0	1.66e-04	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	1.27e-03	1.16e-03	0.0	35,34,0	1.01e-04	4.05e-03	3.99e-03	34,33,34			1.00	0.07	0.93
1781	0.05	0.04	0.0	35,34,0	2.17e-04	0.05	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.01e-03	0.0	36,33,0	1.04e-04	0.02	8.44e-03	34,35,33			1.00	0.07	0.93
1782	0.05	0.04	0.0	35,34,0	2.17e-04	0.05	0.04	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.01e-03	0.0	36,33,0	1.04e-04	0.02	8.44e-03	34,35,33			1.00	0.07	0.93
1783	0.02	0.02	0.0	35,34,0	1.96e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	1.74e-03	1.67e-03	0.0	35,34,0	1.22e-04	8.18e-03	8.36e-03	34,35,35			1.00	0.07	0.93
1784	3.80e-03	7.72e-03	0.0	35,34,0	1.96e-04	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	1.27e-03	1.16e-03	0.0	35,34,0	1.22e-04	3.18e-03	2.15e-03	34,35,35			1.00	0.07	0.93
2387	0.05	0.04	0.0	35,34,0	1.62e-04	0.05	0.03	33,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.01e-03	0.0	36,33,0	8.15e-05	0.02	8.44e-03	33,35,33			1.00	0.07	0.93
2388	0.05	0.04	0.0	35,34,0	1.70e-04	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	8.01e-03	0.0	36,33,0	8.99e-05	0.02	8.44e-03	34,35,33			1.00	0.07	0.93
2389	0.02	0.02	0.0	35,34,0	1.96e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	5.20e-04	1.23e-03	0.0	45,34,0	1.22e-04	8.18e-03	8.36e-03	34,35,35			1.00	0.07	0.93
2390	3.12e-03	7.72e-03	0.0	35,34,0	1.96e-04	0.01	0.01	34,35,34	0.0	0	0.94	0.03	0.97
	3.73e-04	9.43e-04	0.0	45,34,0	1.22e-04	8.98e-04	8.99e-04	34,45,34			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.08	0.06	0.0		3.30e-04	0.06	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
89	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	881.1	46	0.08	155.9	44	0.05	-3975.5	1.110e+05	44

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
324	0.02	0.03	0.0	13,12,0	1.43e-04	0.04	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	6.88e-03	5.08e-03	0.0	11,14,0	5.34e-05	0.02	6.57e-03	11,11,13			1.00	0.07	0.93
332	0.02	0.03	0.0	13,12,0	2.03e-04	0.04	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	6.88e-03	5.08e-03	0.0	11,14,0	1.04e-04	0.02	9.93e-03	11,12,13			1.00	0.07	0.93
340	0.01	0.03	0.0	13,12,0	2.55e-04	0.03	0.04	11,13,12	0.0	0	0.95	0.03	0.97
	6.85e-03	5.03e-03	0.0	12,13,0	1.53e-04	0.02	0.01	11,12,13			1.00	0.07	0.93
348	4.58e-03	0.03	0.0	13,8,0	2.55e-04	0.02	0.03	11,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	14,13,0	1.53e-04	0.04	0.03	11,14,14			1.00	0.07	0.93
356	0.0	0.03	0.0	0,2,0	1.75e-04	2.36e-03	9.51e-03	11,14,2	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	14,13,0	1.33e-04	0.04	0.03	11,14,14			1.00	0.07	0.93
380	0.0	0.03	0.0	0,2,0	5.18e-05	2.36e-03	0.01	44,14,8	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	14,13,0	5.16e-05	0.04	0.02	44,14,14			1.00	0.07	0.93
382	0.0	0.03	0.0	0,2,0	5.18e-05	2.18e-03	0.01	44,12,8	0.0	0	0.0	0.0	0.0
	4.40e-03	4.28e-03	0.0	13,12,0	5.16e-05	0.01	5.61e-03	44,13,12			1.00	0.07	0.93
392	0.0	0.01	0.0	0,2,0	3.54e-05	1.83e-03	4.50e-03	44,12,8	0.0	0	0.0	0.0	0.0
	4.40e-03	4.28e-03	0.0	13,12,0	3.53e-05	0.01	5.61e-03	46,13,12			1.00	0.07	0.93
759	0.06	0.07	0.0	13,12,0	1.43e-04	0.07	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	11,14,0	5.34e-05	0.05	8.56e-03	11,11,13			1.00	0.07	0.93
765	0.06	0.07	0.0	13,12,0	2.03e-04	0.07	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	11,14,0	1.04e-04	0.05	9.93e-03	11,11,13			1.00	0.07	0.93
771	0.05	0.06	0.0	13,12,0	2.55e-04	0.05	0.04	11,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	12,13,0	1.53e-04	0.05	0.02	11,12,13			1.00	0.07	0.93
777	0.03	0.04	0.0	13,12,0	2.55e-04	0.03	0.03	11,13,12	0.0	0	0.95	0.03	0.97
	0.06	0.04	0.0	14,13,0	1.53e-04	0.13	0.04	11,14,13			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



783	3.41e-03	0.03	0.0	13,2,0	1.75e-04	2.36e-03	0.01	11,14,12	0.0	0	0.95	0.03	0.97
	0.06	0.04	0.0	14,13,0	1.33e-04	0.13	0.04	11,14,13			1.00	0.07	0.93
799	0.0	0.03	0.0	0,2,0	5.18e-05	2.36e-03	0.01	44,14,8	0.0	0	0.0	0.0	0.0
	0.06	0.04	0.0	14,13,0	5.16e-05	0.13	0.04	44,14,14			1.00	0.07	0.93
801	0.0	0.03	0.0	0,2,0	5.18e-05	2.18e-03	0.01	44,12,8	0.0	0	0.0	0.0	0.0
	9.12e-03	7.16e-03	0.0	13,12,0	5.16e-05	0.02	0.01	44,14,13			1.00	0.07	0.93
811	0.0	0.02	0.0	0,2,0	3.54e-05	1.83e-03	5.60e-03	44,12,2	0.0	0	0.0	0.0	0.0
	9.12e-03	7.16e-03	0.0	13,12,0	3.53e-05	0.02	7.14e-03	46,14,12			1.00	0.07	0.93
1143	0.09	0.09	0.0	13,12,0	1.16e-04	0.07	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	11,13,0	4.81e-05	0.07	0.01	46,11,13			1.00	0.07	0.93
1151	0.09	0.09	0.0	13,12,0	1.36e-04	0.07	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	11,13,0	6.16e-05	0.07	0.01	11,11,13			1.00	0.07	0.93
1159	0.07	0.07	0.0	13,12,0	1.45e-04	0.05	0.04	11,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	11,13,0	8.98e-05	0.07	0.02	11,11,13			1.00	0.07	0.93
1167	0.04	0.05	0.0	13,12,0	1.45e-04	0.03	0.03	11,13,12	0.0	0	0.95	0.03	0.97
	0.08	0.06	0.0	11,13,0	1.05e-04	0.18	0.04	11,13,13			1.00	0.07	0.93
1175	8.80e-03	0.03	0.0	13,8,0	9.48e-05	4.12e-03	0.01	11,13,12	0.0	0	0.95	0.03	0.97
	0.08	0.06	0.0	11,13,0	1.05e-04	0.18	0.04	11,13,13			1.00	0.07	0.93
1199	0.0	0.02	0.0	0,2,0	4.56e-05	1.83e-03	8.79e-03	44,13,2	0.0	0	0.0	0.0	0.0
	0.08	0.06	0.0	11,13,0	5.41e-05	0.18	0.04	14,13,13			1.00	0.07	0.93
1201	0.0	0.02	0.0	0,2,0	4.56e-05	1.37e-03	8.74e-03	44,11,2	0.0	0	0.0	0.0	0.0
	0.01	7.97e-03	0.0	12,11,0	4.55e-05	0.02	0.02	44,12,13			1.00	0.07	0.93
1211	0.0	0.02	0.0	0,2,0	2.48e-05	9.11e-05	6.08e-03	46,1,2	0.0	0	0.0	0.0	0.0
	0.01	7.97e-03	0.0	12,11,0	2.47e-05	0.02	7.14e-03	46,12,12			1.00	0.07	0.93
1625	0.09	0.09	0.0	13,12,0	8.48e-05	0.07	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	11,13,0	4.57e-05	0.07	0.01	46,11,13			1.00	0.07	0.93
1626	0.09	0.09	0.0	13,12,0	1.01e-04	0.07	0.05	14,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	11,13,0	4.70e-05	0.07	0.01	46,11,13			1.00	0.07	0.93
1627	0.07	0.07	0.0	13,12,0	1.16e-04	0.05	0.04	11,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	11,13,0	7.23e-05	0.07	0.02	11,11,13			1.00	0.07	0.93
1629	0.04	0.05	0.0	13,12,0	1.16e-04	0.03	0.03	11,13,12	0.0	0	0.95	0.03	0.97
	0.08	0.06	0.0	11,13,0	8.85e-05	0.18	0.04	14,13,13			1.00	0.07	0.93
1631	8.80e-03	0.03	0.0	13,8,0	7.04e-05	4.12e-03	0.01	14,13,12	0.0	0	0.95	0.03	0.97
	0.08	0.06	0.0	11,13,0	8.85e-05	0.18	0.04	14,13,13			1.00	0.07	0.93
1655	0.0	0.02	0.0	0,2,0	3.90e-05	2.00e-03	8.11e-03	44,13,2	0.0	0	0.0	0.0	0.0
	0.08	0.06	0.0	11,13,0	5.41e-05	0.18	0.04	14,13,13			1.00	0.07	0.93
1656	0.0	0.02	0.0	0,2,0	3.25e-05	9.40e-04	8.08e-03	44,11,2	0.0	0	0.0	0.0	0.0
	0.01	7.97e-03	0.0	12,11,0	3.23e-05	0.02	0.02	44,12,13			1.00	0.07	0.93
1665	0.0	0.02	0.0	0,2,0	1.26e-05	9.11e-05	6.08e-03	45,1,2	0.0	0	0.0	0.0	0.0
	0.01	7.97e-03	0.0	12,11,0	1.26e-05	0.02	6.91e-03	45,12,11			1.00	0.07	0.93
2177	0.08	0.07	0.0	13,12,0	1.31e-04	0.07	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	11,14,0	4.84e-05	0.05	8.44e-03	46,11,12			1.00	0.07	0.93
2185	0.08	0.07	0.0	13,12,0	1.91e-04	0.07	0.05	14,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	11,14,0	9.83e-05	0.05	0.01	14,11,12			1.00	0.07	0.93
2193	0.06	0.06	0.0	13,12,0	2.48e-04	0.05	0.04	14,13,12	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	11,13,0	1.50e-04	0.04	0.02	14,11,13			1.00	0.07	0.93
2201	0.03	0.04	0.0	13,12,0	2.48e-04	0.03	0.03	14,13,12	0.0	0	0.95	0.03	0.97
	0.06	0.04	0.0	11,11,0	1.50e-04	0.14	0.04	14,11,11			1.00	0.07	0.93
2209	6.19e-03	0.02	0.0	13,8,0	1.75e-04	4.70e-03	0.01	12,14,12	0.0	0	0.95	0.03	0.97
	0.06	0.04	0.0	11,11,0	1.26e-04	0.14	0.04	12,11,11			1.00	0.07	0.93
2269	0.0	0.02	0.0	0,2,0	5.29e-05	2.00e-03	8.04e-03	44,13,2	0.0	0	0.0	0.0	0.0
	0.06	0.04	0.0	11,11,0	5.27e-05	0.14	0.04	44,11,11			1.00	0.07	0.93
2279	0.0	0.02	0.0	0,2,0	4.22e-05	1.90e-03	7.92e-03	28,14,2	0.0	0	0.0	0.0	0.0
	8.85e-03	6.70e-03	0.0	11,11,0	4.20e-05	0.02	0.01	28,11,11			1.00	0.07	0.93
2289	0.0	0.02	0.0	0,2,0	4.22e-05	1.90e-03	5.91e-03	28,14,8	0.0	0	0.0	0.0	0.0
	8.85e-03	6.70e-03	0.0	11,11,0	4.20e-05	0.02	6.91e-03	28,11,11			1.00	0.07	0.93
2391	0.0	0.01	0.0	0,2,0	4.22e-05	1.90e-03	5.91e-03	28,14,8	0.0	0	0.0	0.0	0.0
	3.84e-03	3.39e-03	0.0	13,12,0	4.20e-05	9.25e-03	4.79e-03	28,13,11			1.00	0.07	0.93
2464	0.0	0.02	0.0	0,2,0	4.22e-05	1.90e-03	7.72e-03	28,14,2	0.0	0	0.0	0.0	0.0
	3.84e-03	3.39e-03	0.0	13,12,0	4.20e-05	9.25e-03	4.85e-03	28,13,12			1.00	0.07	0.93
2482	0.0	0.02	0.0	0,2,0	5.29e-05	1.35e-03	7.72e-03	44,11,2	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	13,12,0	5.27e-05	0.05	0.02	44,11,11			1.00	0.07	0.93
2501	0.0	0.02	0.0	0,2,0	1.75e-04	4.70e-03	0.01	12,14,12	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	11,12,0	1.26e-04	0.06	0.03	12,11,11			1.00	0.07	0.93
2565	0.01	0.03	0.0	13,8,0	2.48e-04	0.02	0.03	14,13,12	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	11,12,0	1.50e-04	0.06	0.03	14,11,11			1.00	0.07	0.93
2583	0.02	0.03	0.0	13,12,0	2.48e-04	0.04	0.04	14,13,12	0.0	0	0.95	0.03	0.97
	4.90e-03	5.09e-03	0.0	13,14,0	1.50e-04	0.02	0.02	14,13,13			1.00	0.07	0.93
2606	0.03	0.03	0.0	13,12,0	1.91e-04	0.05	0.05	14,13,12	0.0	0	0.95	0.03	0.97
	2.38e-03	3.09e-03	0.0	13,12,0	9.83e-05	0.01	0.01	14,13,12			1.00	0.07	0.93
2625	0.03	0.03	0.0	13,12,0	1.31e-04	0.05	0.05	11,13,12	0.0	0	0.95	0.03	0.97
	2.38e-03	3.09e-03	0.0	13,12,0	4.84e-05	8.47e-03	8.44e-03	46,13,12			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.09	0.09	0.0		2.55e-04	0.18	0.05		0.0				

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore cm	Incoll.	Stato
90	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.09	751.1	8	0.05	737.8	8	0.15	-1.081e+04	6.895e+05	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
154	0.0	0.04	0.0	0,2,0	3.24e-05	8.34e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	0.0	1.14e-04	0.0	0,8,0	3.06e-05	2.23e-04	2.53e-04	8,28,28			0.0	0.0	0.0
155	0.0	0.04	0.0	0,2,0	3.24e-05	8.34e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	0.0	1.14e-04	0.0	0,8,0	3.06e-05	2.23e-04	2.53e-04	8,28,28			0.0	0.0	0.0
156	0.0	0.04	0.0	0,2,0	7.65e-06	4.39e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	1.96e-03	9.55e-04	0.0	2,18,0	5.44e-06	6.35e-03	5.23e-03	8,2,2			1.00	0.07	0.93
157	0.0	0.04	0.0	0,2,0	3.30e-05	5.44e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	1.96e-03	9.55e-04	0.0	2,18,0	2.85e-05	6.35e-03	5.23e-03	8,2,2			1.00	0.07	0.93
158	0.0	0.03	0.0	0,2,0	3.30e-05	5.44e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	3.12e-04	1.04e-03	0.0	12,2,0	2.85e-05	2.19e-03	2.26e-03	8,2,2			1.00	0.07	0.93
159	0.0	0.02	0.0	0,2,0	1.94e-05	1.19e-03	6.86e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.04e-03	0.0	0,2,0	1.82e-05	4.65e-04	6.83e-04	8,2,2			0.0	0.0	0.0
160	0.0	0.02	0.0	0,2,0	1.20e-05	5.52e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.03e-03	0.0	0,2,0	1.17e-05	2.08e-03	2.13e-03	12,2,2			0.0	0.0	0.0
161	0.0	0.02	0.0	0,2,0	1.63e-05	5.52e-03	0.01	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.75e-04	0.0	0,38,0	1.44e-05	2.10e-03	2.14e-03	12,2,2			0.0	0.0	0.0
162	0.0	0.02	0.0	0,2,0	1.63e-05	5.48e-03	0.01	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.06e-04	0.0	0,38,0	1.44e-05	2.10e-03	2.14e-03	12,2,2			0.0	0.0	0.0
622	0.0	0.04	0.0	0,2,0	3.44e-05	8.34e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	0.0	1.78e-04	0.0	0,2,0	3.26e-05	2.23e-04	2.53e-04	8,28,28			0.0	0.0	0.0
623	0.0	0.04	0.0	0,2,0	3.44e-05	8.34e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	0.0	1.78e-04	0.0	0,2,0	3.26e-05	2.23e-04	2.53e-04	8,28,28			0.0	0.0	0.0
624	0.0	0.04	0.0	0,2,0	7.65e-06	4.39e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	1.96e-03	9.55e-04	0.0	2,18,0	5.44e-06	6.35e-03	5.23e-03	8,2,2			1.00	0.07	0.93
625	0.0	0.04	0.0	0,2,0	5.01e-05	5.44e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	1.96e-03	1.17e-03	0.0	2,2,0	4.80e-05	6.35e-03	5.23e-03	8,2,2			1.00	0.07	0.93
626	0.0	0.03	0.0	0,2,0	5.01e-05	5.44e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	3.12e-04	2.33e-03	0.0	12,2,0	4.80e-05	2.19e-03	2.26e-03	8,2,2			1.00	0.07	0.93
627	0.0	0.02	0.0	0,2,0	2.42e-05	1.19e-03	6.86e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.73e-03	0.0	0,2,0	2.32e-05	1.02e-03	1.03e-03	8,2,2			0.0	0.0	0.0
628	0.0	0.02	0.0	0,2,0	1.20e-05	5.52e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.73e-03	0.0	0,2,0	1.17e-05	2.08e-03	2.13e-03	12,2,2			0.0	0.0	0.0
629	0.0	0.02	0.0	0,2,0	2.35e-05	5.52e-03	0.01	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.53e-03	0.0	0,38,0	2.27e-05	2.10e-03	2.14e-03	8,2,2			0.0	0.0	0.0
630	0.0	0.02	0.0	0,2,0	2.35e-05	5.48e-03	0.01	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.27e-03	0.0	0,38,0	2.27e-05	2.10e-03	2.14e-03	8,2,2			0.0	0.0	0.0
980	0.0	0.04	0.0	0,2,0	3.44e-05	8.08e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	7.93e-04	3.66e-03	0.0	43,2,0	3.26e-05	3.92e-03	1.53e-03	8,38,2			1.00	0.07	0.93
981	0.0	0.04	0.0	0,2,0	3.44e-05	8.08e-04	0.02	8,28,2	0.0	0	0.0	0.0	0.0
	7.93e-04	3.66e-03	0.0	43,2,0	3.26e-05	3.92e-03	1.53e-03	8,38,2			1.00	0.07	0.93
982	0.0	0.04	0.0	0,2,0	1.90e-05	9.08e-04	0.01	8,38,2	0.0	0	0.0	0.0	0.0
	5.69e-04	1.78e-03	0.0	23,8,0	1.67e-05	1.54e-03	1.78e-03	8,43,8			1.00	0.07	0.93
983	0.0	0.04	0.0	0,2,0	9.34e-05	2.77e-03	0.01	8,38,2	0.0	0	0.0	0.0	0.0
	6.72e-04	3.45e-03	0.0	23,2,0	9.21e-05	2.55e-03	1.94e-03	8,43,2			1.00	0.07	0.93
984	0.0	0.03	0.0	0,2,0	9.34e-05	2.77e-03	0.01	8,38,2	0.0	0	0.0	0.0	0.0
	6.72e-04	3.45e-03	0.0	23,2,0	9.21e-05	2.55e-03	1.94e-03	8,43,2			1.00	0.07	0.93
985	0.0	0.02	0.0	0,2,0	3.16e-05	9.35e-04	6.62e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.48e-03	0.0	0,2,0	3.12e-05	1.02e-03	1.51e-03	8,2,2			0.0	0.0	0.0
986	0.0	0.02	0.0	0,2,0	1.66e-05	2.43e-03	8.79e-03	24,38,2	0.0	0	0.0	0.0	0.0
	5.26e-04	3.48e-03	0.0	43,2,0	1.62e-05	2.84e-03	1.35e-03	24,38,38			1.00	0.07	0.93
987	0.0	0.02	0.0	0,2,0	3.05e-05	2.43e-03	8.83e-03	8,38,2	0.0	0	0.0	0.0	0.0
	6.07e-04	3.38e-03	0.0	43,2,0	3.01e-05	2.84e-03	1.35e-03	8,38,38			1.00	0.07	0.93
988	0.0	0.02	0.0	0,2,0	3.05e-05	2.40e-03	8.83e-03	8,38,2	0.0	0	0.0	0.0	0.0
	6.07e-04	3.02e-03	0.0	43,38,0	3.01e-05	2.81e-03	1.23e-03	8,44,38			1.00	0.07	0.93
1399	0.0	0.04	0.0	0,2,0	6.33e-05	2.05e-03	0.01	2,28,2	0.0	0	0.0	0.0	0.0
	8.65e-03	6.63e-03	0.0	2,2,0	6.09e-05	0.02	3.37e-03	2,2,2			1.00	0.07	0.93
1400	0.0	0.04	0.0	0,2,0	6.33e-05	2.05e-03	0.01	2,28,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1401	8.65e-03	6.63e-03	0.0	2,2,0	6.09e-05	0.02	3.37e-03	2,2,2	0.0	0	1.00	0.07	0.93
	0.0	8.04e-03	0.0	0,2,0	3.57e-05	7.30e-04	3.76e-03	18,2,2	0.0	0	0.0	0.0	0.0
	3.34e-03	4.21e-03	0.0	24,8,0	3.53e-05	7.46e-03	4.60e-03	18,18,2	0.0	0	1.00	0.07	0.93
1402	0.0	0.04	0.0	0,2,0	2.92e-05	9.08e-04	0.01	8,38,2	0.0	0	0.0	0.0	0.0
	7.53e-03	6.18e-03	0.0	18,8,0	2.86e-05	0.02	6.41e-03	8,2,2	0.0	0	1.00	0.07	0.93
1403	0.0	0.04	0.0	0,2,0	1.25e-04	2.76e-03	0.01	2,38,2	0.0	0	0.0	0.0	0.0
	7.53e-03	6.18e-03	0.0	18,8,0	1.24e-04	0.02	6.41e-03	2,2,2	0.0	0	1.00	0.07	0.93
1404	0.0	0.02	0.0	0,2,0	1.25e-04	2.76e-03	0.01	2,38,2	0.0	0	0.0	0.0	0.0
	1.71e-03	5.06e-03	0.0	23,8,0	1.24e-04	4.97e-03	2.03e-03	2,18,2	0.0	0	1.00	0.07	0.93
1405	0.0	0.01	0.0	0,2,0	3.52e-05	6.30e-04	5.75e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.48e-03	0.0	0,2,0	3.48e-05	1.06e-03	1.68e-03	8,2,2	0.0	0	0.0	0.0	0.0
1406	0.0	0.01	0.0	0,2,0	2.74e-05	1.97e-03	7.16e-03	18,38,2	0.0	0	0.0	0.0	0.0
	5.75e-04	3.48e-03	0.0	43,2,0	2.69e-05	2.84e-03	1.35e-03	18,38,2	0.0	0	1.00	0.07	0.93
1407	0.0	0.01	0.0	0,2,0	3.80e-05	1.97e-03	7.16e-03	8,38,2	0.0	0	0.0	0.0	0.0
	6.53e-04	3.46e-03	0.0	43,2,0	3.74e-05	2.84e-03	1.35e-03	8,38,2	0.0	0	1.00	0.07	0.93
1408	0.0	0.01	0.0	0,2,0	3.80e-05	1.91e-03	7.16e-03	8,38,2	0.0	0	0.0	0.0	0.0
	6.53e-04	3.13e-03	0.0	43,2,0	3.74e-05	2.81e-03	1.24e-03	8,44,2	0.0	0	1.00	0.07	0.93
1922	0.0	0.02	0.0	0,2,0	1.50e-04	2.05e-03	0.01	2,28,2	0.0	0	0.0	0.0	0.0
	8.65e-03	6.63e-03	0.0	2,2,0	1.49e-04	0.02	3.37e-03	2,2,2	0.0	0	1.00	0.07	0.93
1923	0.0	0.02	0.0	0,2,0	1.50e-04	2.05e-03	0.01	2,28,2	0.0	0	0.0	0.0	0.0
	8.65e-03	6.63e-03	0.0	2,2,0	1.49e-04	0.02	3.37e-03	2,2,2	0.0	0	1.00	0.07	0.93
1924	0.0	9.88e-03	0.0	0,2,0	7.04e-05	7.49e-04	4.48e-03	18,2,2	0.0	0	0.0	0.0	0.0
	3.34e-03	4.21e-03	0.0	24,8,0	6.86e-05	7.46e-03	4.60e-03	18,18,2	0.0	0	1.00	0.07	0.93
1925	0.0	0.03	0.0	0,2,0	7.04e-05	8.15e-04	0.01	18,38,2	0.0	0	0.0	0.0	0.0
	7.53e-03	6.18e-03	0.0	18,8,0	6.86e-05	0.02	9.11e-03	18,2,2	0.0	0	1.00	0.07	0.93
1926	0.0	0.03	0.0	0,2,0	1.87e-04	2.42e-03	0.01	2,38,2	0.0	0	0.0	0.0	0.0
	7.53e-03	6.18e-03	0.0	18,8,0	1.87e-04	0.02	9.11e-03	2,2,2	0.0	0	1.00	0.07	0.93
1927	0.0	0.02	0.0	0,2,0	1.87e-04	2.42e-03	0.01	2,38,2	0.0	0	0.0	0.0	0.0
	1.71e-03	5.06e-03	0.0	23,8,0	1.87e-04	4.97e-03	3.36e-03	2,18,2	0.0	0	1.00	0.07	0.93
1928	0.0	0.01	0.0	0,2,0	5.22e-05	5.88e-04	4.14e-03	8,2,2	0.0	0	0.0	0.0	0.0
	1.18e-03	3.03e-03	0.0	2,2,0	5.08e-05	2.51e-03	1.68e-03	8,2,2	0.0	0	1.00	0.07	0.93
1929	0.0	0.01	0.0	0,2,0	5.50e-05	2.19e-03	5.52e-03	2,2,2	0.0	0	0.0	0.0	0.0
	1.18e-03	3.46e-03	0.0	2,2,0	5.44e-05	2.69e-03	2.14e-03	2,44,2	0.0	0	1.00	0.07	0.93
1930	0.0	0.01	0.0	0,2,0	6.37e-05	2.19e-03	5.58e-03	2,2,2	0.0	0	0.0	0.0	0.0
	6.53e-04	3.46e-03	0.0	43,2,0	6.32e-05	2.69e-03	2.28e-03	2,44,2	0.0	0	1.00	0.07	0.93
1931	0.0	0.01	0.0	0,2,0	6.37e-05	2.14e-03	5.58e-03	2,2,2	0.0	0	0.0	0.0	0.0
	6.53e-04	3.13e-03	0.0	43,2,0	6.32e-05	2.67e-03	2.28e-03	2,44,2	0.0	0	1.00	0.07	0.93
2697	0.0	9.27e-03	0.0	0,2,0	1.50e-04	1.16e-03	4.66e-03	2,2,2	0.0	0	0.0	0.0	0.0
	4.87e-03	2.76e-03	0.0	2,2,0	1.49e-04	0.01	2.65e-03	2,2,2	0.0	0	1.00	0.07	0.93
2698	0.0	9.27e-03	0.0	0,2,0	1.50e-04	1.16e-03	4.66e-03	2,2,2	0.0	0	0.0	0.0	0.0
	4.87e-03	2.76e-03	0.0	2,2,0	1.49e-04	0.01	2.65e-03	2,2,2	0.0	0	1.00	0.07	0.93
2699	0.0	9.88e-03	0.0	0,2,0	7.04e-05	7.49e-04	4.48e-03	18,2,2	0.0	0	0.0	0.0	0.0
	1.84e-03	6.47e-04	0.0	2,12,0	6.86e-05	3.62e-03	2.28e-03	18,2,2	0.0	0	1.00	0.07	0.93
2700	0.0	0.03	0.0	0,2,0	7.04e-05	7.49e-04	0.01	18,2,2	0.0	0	0.0	0.0	0.0
	4.70e-03	2.33e-03	0.0	2,2,0	6.86e-05	0.01	9.11e-03	18,2,2	0.0	0	1.00	0.07	0.93
2701	0.0	0.03	0.0	0,2,0	1.87e-04	8.87e-04	0.01	2,44,2	0.0	0	0.0	0.0	0.0
	4.70e-03	3.20e-03	0.0	2,2,0	1.87e-04	0.01	9.11e-03	2,2,2	0.0	0	1.00	0.07	0.93
2702	0.0	0.01	0.0	0,2,0	1.87e-04	8.87e-04	5.59e-03	2,44,2	0.0	0	0.0	0.0	0.0
	1.32e-03	3.20e-03	0.0	2,2,0	1.87e-04	4.92e-03	3.36e-03	2,2,2	0.0	0	1.00	0.07	0.93
2703	0.0	5.58e-03	0.0	0,2,0	5.22e-05	5.88e-04	2.73e-03	8,2,2	0.0	0	0.0	0.0	0.0
	1.18e-03	7.15e-04	0.0	2,8,0	5.08e-05	2.51e-03	8.22e-04	8,2,2	0.0	0	1.00	0.07	0.93
2704	0.0	8.88e-03	0.0	0,2,0	5.50e-05	2.19e-03	5.52e-03	2,2,2	0.0	0	0.0	0.0	0.0
	1.18e-03	1.72e-03	0.0	2,18,0	5.44e-05	2.51e-03	2.14e-03	2,2,2	0.0	0	1.00	0.07	0.93
2705	0.0	9.19e-03	0.0	0,2,0	6.37e-05	2.19e-03	5.58e-03	2,2,2	0.0	0	0.0	0.0	0.0
	3.05e-04	1.72e-03	0.0	45,18,0	6.32e-05	2.00e-03	2.28e-03	2,2,2	0.0	0	1.00	0.07	0.93
2706	0.0	9.19e-03	0.0	0,2,0	6.37e-05	2.14e-03	5.58e-03	2,2,2	0.0	0	0.0	0.0	0.0
	3.05e-04	1.38e-03	0.0	45,18,0	6.32e-05	2.00e-03	2.28e-03	2,2,2	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	8.65e-03	0.04	0.0		1.87e-04	0.02	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
91	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



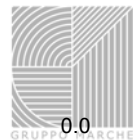
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2219	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	1.62e-03	3.46e-03	0.0	45,38,0	4.26e-03	0.06	0.06	44,44,44			1.00	0.07	0.93
2220	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	43,45,44	0.0	0	0.23	0.12	0.88
	0.01	9.49e-03	0.0	45,44,0	4.54e-03	0.06	0.06	43,44,44			1.00	0.07	0.93
2221	0.04	0.03	0.0	43,46,0	0.01	0.05	0.04	43,43,40	0.0	0	0.23	0.12	0.88
	0.01	9.49e-03	0.0	45,44,0	4.54e-03	0.03	9.10e-03	43,45,45			1.00	0.07	0.93
2222	0.05	0.04	0.0	43,46,0	6.61e-03	0.06	0.05	43,43,40	0.0	0	0.23	0.12	0.88
	4.92e-04	5.50e-04	0.0	45,44,0	2.15e-03	0.01	0.01	43,43,45			1.00	0.07	0.93
2223	0.05	0.04	0.0	43,46,0	1.34e-03	0.06	0.05	43,43,38	0.0	0	0.23	0.12	0.88
	1.47e-04	9.99e-05	0.0	43,46,0	4.31e-04	0.01	0.01	43,43,46			1.00	0.07	0.93
2224	0.05	0.04	0.0	43,46,0	3.24e-03	0.06	0.08	44,43,44	0.0	0	0.23	0.12	0.88
	6.15e-04	4.31e-04	0.0	43,45,0	1.05e-03	0.01	0.01	44,43,46			1.00	0.07	0.93
2225	0.05	0.04	0.0	45,44,0	9.14e-03	0.05	0.08	44,45,44	0.0	0	0.23	0.12	0.88
	2.10e-03	1.59e-03	0.0	45,45,0	3.05e-03	0.01	0.01	44,44,46			1.00	0.07	0.93
2226	0.04	0.04	0.0	45,44,0	0.01	0.07	0.10	44,45,45	0.0	0	0.23	0.12	0.88
	7.76e-03	6.63e-03	0.0	46,44,0	3.66e-03	0.02	0.02	44,46,44			1.00	0.07	0.93
2227	0.04	0.04	0.0	45,44,0	0.01	0.07	0.10	44,45,45	0.0	0	0.23	0.12	0.88
	7.76e-03	6.63e-03	0.0	46,44,0	3.66e-03	0.02	0.02	44,46,44			1.00	0.07	0.93
2511	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	1.62e-03	3.46e-03	0.0	45,38,0	4.26e-03	0.06	0.06	44,44,44			1.00	0.07	0.93
2512	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	43,45,44	0.0	0	0.23	0.12	0.88
	0.01	9.49e-03	0.0	45,44,0	4.54e-03	0.06	0.06	43,44,44			1.00	0.07	0.93
2513	0.04	0.03	0.0	43,46,0	0.01	0.05	0.04	43,43,40	0.0	0	0.23	0.12	0.88
	0.01	9.49e-03	0.0	45,44,0	4.54e-03	0.03	9.10e-03	43,45,45			1.00	0.07	0.93
2514	0.05	0.04	0.0	43,46,0	6.61e-03	0.06	0.05	43,43,40	0.0	0	0.23	0.12	0.88
	4.92e-04	5.50e-04	0.0	45,44,0	2.15e-03	0.01	0.01	43,43,45			1.00	0.07	0.93
2515	0.05	0.04	0.0	43,46,0	1.34e-03	0.06	0.05	43,43,38	0.0	0	0.23	0.12	0.88
	1.47e-04	9.99e-05	0.0	43,46,0	4.31e-04	0.01	0.01	43,43,46			1.00	0.07	0.93
2516	0.05	0.04	0.0	43,46,0	3.24e-03	0.06	0.08	44,43,44	0.0	0	0.23	0.12	0.88
	6.15e-04	4.31e-04	0.0	43,45,0	1.05e-03	0.01	0.01	44,43,46			1.00	0.07	0.93
2517	0.05	0.04	0.0	45,44,0	9.14e-03	0.05	0.08	44,45,44	0.0	0	0.23	0.12	0.88
	2.10e-03	1.59e-03	0.0	45,45,0	3.05e-03	0.01	0.01	44,44,46			1.00	0.07	0.93
2518	0.04	0.04	0.0	45,44,0	0.01	0.07	0.10	44,45,45	0.0	0	0.23	0.12	0.88
	7.76e-03	6.63e-03	0.0	46,44,0	3.66e-03	0.02	0.02	44,46,44			1.00	0.07	0.93
2519	0.04	0.04	0.0	45,44,0	0.01	0.07	0.10	44,45,45	0.0	0	0.23	0.12	0.88
	7.76e-03	6.63e-03	0.0	46,44,0	3.66e-03	0.02	0.02	44,46,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.04	0.0		0.01	0.07	0.10		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
92	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.10	-931.9	24	0.04	-135.9	25	0.09	-3775.1	-2.110e+05	8

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
169	0.0	8.99e-03	0.0	0,2,0	9.49e-06	2.27e-05	3.16e-03	26,34,2	0.0	0	0.0	0.0	0.0
	0.0	5.86e-04	0.0	0,38,0	9.46e-06	5.46e-05	1.87e-04	26,34,18			0.0	0.0	0.0
170	0.0	8.99e-03	0.0	0,2,0	1.20e-05	2.27e-05	3.16e-03	26,34,2	0.0	0	0.0	0.0	0.0
	0.0	6.42e-04	0.0	0,18,0	1.20e-05	5.46e-05	1.94e-04	26,34,38			0.0	0.0	0.0
171	0.0	5.54e-03	0.0	0,2,0	1.48e-05	2.27e-05	1.95e-03	24,24,2	0.0	0	0.0	0.0	0.0
	0.0	7.14e-04	0.0	0,18,0	1.48e-05	4.06e-05	2.13e-04	24,46,18			0.0	0.0	0.0
172	0.0	4.95e-03	0.0	0,38,0	1.89e-05	9.60e-05	1.81e-03	24,18,38	0.0	0	0.0	0.0	0.0
	0.0	8.60e-04	0.0	0,18,0	1.88e-05	5.51e-05	2.74e-04	24,28,18			0.0	0.0	0.0
173	0.0	8.10e-03	0.0	0,38,0	2.66e-05	4.35e-04	3.18e-03	24,18,38	0.0	0	0.0	0.0	0.0
	6.85e-05	8.60e-04	0.0	13,18,0	2.62e-05	6.74e-04	8.69e-04	24,18,18			1.00	0.07	0.93
174	0.0	8.10e-03	0.0	0,38,0	2.66e-05	4.35e-04	3.18e-03	24,18,38	0.0	0	0.0	0.0	0.0
	6.85e-05	1.22e-03	0.0	13,18,0	2.62e-05	6.74e-04	8.69e-04	24,18,18			1.00	0.07	0.93
175	0.0	0.02	0.0	0,38,0	2.70e-05	2.98e-03	8.07e-03	24,24,18	0.0	0	0.0	0.0	0.0
	6.91e-03	5.03e-03	0.0	24,24,0	3.22e-05	0.02	0.01	24,24,24			1.00	0.07	0.93
176	0.0	0.02	0.0	0,2,0	2.92e-05	2.98e-03	8.07e-03	24,24,18	0.0	0	0.0	0.0	0.0
	6.91e-03	5.03e-03	0.0	24,24,0	3.22e-05	0.02	0.01	24,24,24			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



177	0.0	0.02	0.0	0,2,0	2.92e-05	5.95e-04	6.40e-03	24,24,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	6.49e-04	0.0	0,18,0	2.89e-05	9.63e-04	1.10e-03	24,24,24			0.0	0.0	0.0	0.0
637	0.0	8.99e-03	0.0	0,2,0	9.92e-06	7.50e-05	3.16e-03	12,34,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.31e-03	0.0	0,18,0	9.89e-06	1.72e-04	5.11e-04	12,28,2			0.0	0.0	0.0	0.0
638	0.0	8.99e-03	0.0	0,2,0	1.20e-05	7.50e-05	3.16e-03	26,34,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.69e-03	0.0	0,18,0	1.20e-05	1.72e-04	5.24e-04	26,28,18			0.0	0.0	0.0	0.0
639	0.0	5.54e-03	0.0	0,2,0	1.48e-05	3.54e-05	1.95e-03	24,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.97e-03	0.0	0,18,0	1.48e-05	8.01e-05	5.97e-04	24,38,18			0.0	0.0	0.0	0.0
640	0.0	4.95e-03	0.0	0,38,0	1.89e-05	9.60e-05	1.81e-03	24,18,38	0.0	0	0.0	0.0	0.0	0.0
	3.04e-05	2.18e-03	0.0	13,18,0	1.88e-05	9.12e-05	6.69e-04	24,13,18			1.00	0.07	0.93	
641	0.0	8.10e-03	0.0	0,38,0	2.66e-05	4.35e-04	3.18e-03	24,18,38	0.0	0	0.0	0.0	0.0	0.0
	3.71e-04	2.18e-03	0.0	13,18,0	2.62e-05	6.74e-04	1.14e-03	24,18,18			1.00	0.07	0.93	
642	0.0	8.10e-03	0.0	0,38,0	2.75e-05	4.35e-04	3.18e-03	24,18,38	0.0	0	0.0	0.0	0.0	0.0
	8.86e-04	3.59e-03	0.0	13,18,0	2.73e-05	3.53e-03	1.84e-03	24,18,24			1.00	0.07	0.93	
643	0.0	0.02	0.0	0,38,0	2.75e-05	2.98e-03	8.07e-03	24,24,18	0.0	0	0.0	0.0	0.0	0.0
	6.91e-03	5.03e-03	0.0	24,24,0	3.22e-05	0.02	0.01	24,24,24			1.00	0.07	0.93	
644	0.0	0.02	0.0	0,2,0	2.92e-05	2.98e-03	8.07e-03	24,24,18	0.0	0	0.0	0.0	0.0	0.0
	6.91e-03	5.03e-03	0.0	24,24,0	3.22e-05	0.02	0.01	24,24,24			1.00	0.07	0.93	
645	0.0	0.02	0.0	0,2,0	2.92e-05	5.95e-04	6.40e-03	24,24,2	0.0	0	0.0	0.0	0.0	0.0
	6.81e-04	1.21e-03	0.0	13,24,0	2.89e-05	1.09e-03	1.30e-03	24,13,24			1.00	0.07	0.93	
995	0.0	8.04e-03	0.0	0,2,0	1.48e-05	8.88e-05	2.86e-03	12,44,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.42e-03	0.0	0,18,0	1.48e-05	5.03e-04	1.11e-03	12,28,28			0.0	0.0	0.0	0.0
996	0.0	8.04e-03	0.0	0,2,0	1.48e-05	8.88e-05	2.86e-03	12,44,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.94e-03	0.0	0,18,0	1.48e-05	5.03e-04	1.11e-03	12,28,28			0.0	0.0	0.0	0.0
997	0.0	4.78e-03	0.0	0,2,0	1.30e-05	3.54e-05	1.70e-03	24,18,38	0.0	0	0.0	0.0	0.0	0.0
	0.0	3.47e-03	0.0	0,18,0	1.29e-05	1.12e-04	1.00e-03	24,2,18			0.0	0.0	0.0	0.0
998	0.0	4.27e-03	0.0	0,38,0	1.63e-05	3.54e-05	1.53e-03	24,18,38	0.0	0	0.0	0.0	0.0	0.0
	8.21e-05	3.65e-03	0.0	13,18,0	1.63e-05	1.90e-04	1.07e-03	24,13,18			1.00	0.07	0.93	
999	0.0	6.47e-03	0.0	0,38,0	2.47e-05	1.76e-04	2.40e-03	24,18,38	0.0	0	0.0	0.0	0.0	0.0
	4.12e-04	3.75e-03	0.0	13,18,0	2.46e-05	6.95e-04	1.39e-03	24,13,18			1.00	0.07	0.93	
1000	0.0	6.47e-03	0.0	0,38,0	3.55e-05	8.84e-04	2.40e-03	18,18,38	0.0	0	0.0	0.0	0.0	0.0
	8.86e-04	4.64e-03	0.0	13,18,0	3.50e-05	3.53e-03	1.84e-03	18,18,24			1.00	0.07	0.93	
1001	0.0	0.01	0.0	0,38,0	3.55e-05	1.03e-03	4.83e-03	18,26,18	0.0	0	0.0	0.0	0.0	0.0
	2.09e-03	5.33e-03	0.0	8,18,0	3.50e-05	7.44e-03	6.14e-03	18,2,2			1.00	0.07	0.93	
1002	0.0	0.02	0.0	0,2,0	4.70e-05	1.03e-03	6.81e-03	18,26,2	0.0	0	0.0	0.0	0.0	0.0
	6.94e-03	6.87e-03	0.0	2,18,0	4.54e-05	0.02	6.14e-03	18,2,2			1.00	0.07	0.93	
1003	0.0	0.02	0.0	0,2,0	4.70e-05	1.71e-04	6.81e-03	18,25,2	0.0	0	0.0	0.0	0.0	0.0
	6.94e-03	6.87e-03	0.0	2,18,0	4.54e-05	0.02	5.97e-03	18,2,2			1.00	0.07	0.93	
1416	0.0	6.28e-03	0.0	0,2,0	2.63e-05	8.88e-05	2.28e-03	8,44,38	0.0	0	0.0	0.0	0.0	0.0
	0.0	4.02e-03	0.0	0,18,0	2.62e-05	5.45e-04	1.49e-03	8,28,18			0.0	0.0	0.0	0.0
1417	0.0	6.28e-03	0.0	0,2,0	2.63e-05	8.88e-05	2.28e-03	8,44,38	0.0	0	0.0	0.0	0.0	0.0
	0.0	4.75e-03	0.0	0,18,0	2.62e-05	5.45e-04	1.49e-03	8,28,18			0.0	0.0	0.0	0.0
1418	0.0	3.59e-03	0.0	0,38,0	9.83e-06	4.01e-05	1.29e-03	8,18,38	0.0	0	0.0	0.0	0.0	0.0
	5.05e-05	5.94e-03	0.0	13,18,0	9.82e-06	1.27e-04	1.72e-03	8,2,18			1.00	0.07	0.93	
1419	0.0	3.07e-03	0.0	0,38,0	1.40e-05	4.01e-05	1.10e-03	24,18,38	0.0	0	0.0	0.0	0.0	0.0
	2.03e-04	7.41e-03	0.0	13,18,0	1.39e-05	2.50e-04	2.15e-03	24,13,18			1.00	0.07	0.93	
1420	0.0	3.86e-03	0.0	0,38,0	2.39e-05	3.63e-04	1.51e-03	24,18,38	0.0	0	0.0	0.0	0.0	0.0
	4.19e-04	9.20e-03	0.0	13,18,0	2.39e-05	6.95e-04	2.74e-03	24,13,18			1.00	0.07	0.93	
1421	0.0	3.92e-03	0.0	0,38,0	4.38e-05	1.74e-03	2.66e-03	18,18,18	0.0	0	0.0	0.0	0.0	0.0
	8.66e-04	0.01	0.0	13,18,0	4.34e-05	1.90e-03	5.05e-03	18,2,18			1.00	0.07	0.93	
1422	2.93e-03	0.01	0.0	20,2,0	1.08e-04	2.83e-03	7.04e-03	18,20,38	0.0	0	0.97	0.03	0.97	
	2.09e-03	0.01	0.0	8,18,0	1.03e-04	7.44e-03	8.55e-03	18,2,18			1.00	0.07	0.93	
1423	0.01	0.04	0.0	2,2,0	2.51e-04	0.02	0.03	18,2,2	0.0	0	0.97	0.03	0.97	
	6.94e-03	0.01	0.0	2,18,0	2.23e-04	0.02	8.55e-03	18,2,18			1.00	0.07	0.93	
1424	0.01	0.04	0.0	2,2,0	2.51e-04	0.02	0.03	18,2,2	0.0	0	0.97	0.03	0.97	
	6.94e-03	8.06e-03	0.0	2,18,0	2.23e-04	0.02	8.42e-03	18,2,2			1.00	0.07	0.93	
1939	0.0	3.83e-03	0.0	0,2,0	4.13e-05	8.77e-05	1.39e-03	8,33,2	0.0	0	0.0	0.0	0.0	0.0
	6.88e-04	4.02e-03	0.0	13,18,0	4.12e-05	1.00e-03	1.49e-03	8,13,18			1.00	0.07	0.93	
1940	0.0	3.83e-03	0.0	0,2,0	4.13e-05	8.77e-05	1.39e-03	8,33,2	0.0	0	0.0	0.0	0.0	0.0
	6.88e-04	4.75e-03	0.0	13,18,0	4.12e-05	1.00e-03	1.49e-03	8,13,18			1.00	0.07	0.93	
1941	0.0	2.02e-03	0.0	0,38,0	2.61e-05	4.58e-05	7.24e-04	8,44,38	0.0	0	0.0	0.0	0.0	0.0
	6.29e-04	5.94e-03	0.0	13,18,0	2.61e-05	7.66e-04	1.72e-03	8,13,18			1.00	0.07	0.93	
1942	0.0	1.60e-03	0.0	0,44,0	2.44e-05	4.83e-05	5.75e-04	8,28,38	0.0	0	0.0	0.0	0.0	0.0
	6.29e-04	7.41e-03	0.0	13,18,0	2.42e-05	7.61e-04	2.15e-03	8,13,18			1.00	0.07	0.93	
1943	3.83e-04	1.91e-03	0.0	20,38,0	3.20e-05	4.80e-04	1.00e-03	2,20,38	0.0	0	0.97	0.03	0.97	
	6.57e-04	9.20e-03	0.0	13,18,0	3.16e-05	9.05e-04	2.94e-03	2,13,18			1.00	0.07	0.93	
1944	3.83e-04	2.70e-03	0.0	20,38,0	4.71e-05	1.74e-03	2.66e-03	2,18,18	0.0	0	0.97	0.03	0.97	
	8.66e-04	0.01	0.0	13,18,0	4.68e-05	2.71e-03	5.57e-03	2,2,2			1.00	0.07	0.93	
1945	7.05e-03	0.01	0.0	2,2,0	1.22e-04	0.01	0.01	18,2,2	0.0	0	0.97	0.03	0.97	
	1.28e-03	0.01	0.0	13,18,0	1.20e-04	9.67e-03	0.01	18,18,18			1.00	0.07	0.93	
1946	0.03	0.04	0.0	2,2,0	2.51e-04	0.05	0.04	18,2,2	0.0	0	0.97	0.03	0.97	
	1.28e-03	0.01	0.0	13,18,0	2.23e-04	0.01	0.01	18,2,2			1.00	0.07	0.93	
1947	0.03	0.04	0.0	2,2,0	2.51e-04	0.05	0.04	18,2,2	0.0	0	0.97	0.03	0.97	
	6.24e-04	8.06e-03	0.0	13,18,0	2.23e-04	0.01	0.01	18,2,2			1.00	0.07	0.93	
2714	0.0	1.45e-03	0.0	0,28,0	4.13e-05	8.77e-05	5.75e-04	8,33,28	0.0	0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2715	6.88e-04	2.85e-03	0.0	13,18,0	4.12e-05	1.00e-03	9.96e-04	8,13,18	1.00	0.07	0.93
	0.0	1.45e-03	0.0	0,28,0	4.13e-05	8.77e-05	5.75e-04	8,33,28	0.0	0.0	0.0
2716	6.88e-04	3.12e-03	0.0	13,18,0	4.12e-05	1.00e-03	9.96e-04	8,13,18	1.00	0.07	0.93
	0.0	7.69e-04	0.0	0,34,0	2.61e-05	4.58e-05	2.82e-04	8,44,28	0.0	0.0	0.0
2717	6.29e-04	4.06e-03	0.0	13,18,0	2.61e-05	7.66e-04	1.21e-03	8,13,18	1.00	0.07	0.93
	0.0	6.28e-04	0.0	0,44,0	2.44e-05	4.83e-05	2.36e-04	8,28,38	0.0	0.0	0.0
2718	6.29e-04	5.91e-03	0.0	13,18,0	2.42e-05	7.61e-04	1.73e-03	8,13,18	1.00	0.07	0.93
	3.83e-04	1.01e-03	0.0	20,38,0	3.20e-05	4.80e-04	7.06e-04	2,20,18	0.0	0.97	0.03
2719	6.57e-04	8.05e-03	0.0	13,18,0	3.16e-05	9.05e-04	2.94e-03	2,13,18	1.00	0.07	0.93
	3.83e-04	1.99e-03	0.0	20,2,0	4.71e-05	1.11e-03	1.88e-03	2,2,2	0.0	0.97	0.03
2720	6.57e-04	0.01	0.0	13,18,0	4.68e-05	2.71e-03	5.57e-03	2,2,2	1.00	0.07	0.93
	7.05e-03	0.01	0.0	2,2,0	1.22e-04	0.01	0.01	18,2,2	0.0	0.97	0.03
2721	1.28e-03	0.01	0.0	13,18,0	1.20e-04	9.67e-03	0.01	18,18,18	1.00	0.07	0.93
	0.03	0.03	0.0	2,2,0	1.22e-04	0.05	0.04	18,2,2	0.0	0.97	0.03
2722	1.60e-03	0.01	0.0	12,18,0	1.20e-04	0.01	0.01	18,2,2	1.00	0.07	0.93
	0.03	0.03	0.0	2,2,0	8.91e-05	0.05	0.04	18,2,2	0.0	0.97	0.03
2989	1.60e-03	6.30e-03	0.0	12,18,0	4.60e-05	0.01	0.01	18,2,2	1.00	0.07	0.93
	0.0	5.95e-04	0.0	0,24,0	1.16e-05	6.70e-05	2.73e-04	8,2,18	0.0	0.0	0.0
2990	7.28e-04	6.75e-04	0.0	12,26,0	1.12e-05	9.86e-04	2.03e-04	8,12,26	1.00	0.07	0.93
	0.0	5.95e-04	0.0	0,24,0	2.17e-05	1.29e-04	2.73e-04	24,2,18	0.0	0.0	0.0
2991	1.60e-03	1.30e-03	0.0	12,25,0	2.13e-05	2.02e-03	3.69e-04	24,12,25	1.00	0.07	0.93
	0.0	4.00e-04	0.0	0,2,0	2.17e-05	1.29e-04	2.69e-04	24,2,2	0.0	0.0	0.0
	1.60e-03	1.30e-03	0.0	12,25,0	2.13e-05	2.02e-03	3.69e-04	24,12,25	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26		
	0.03	0.04	0.0		2.51e-04	0.05	0.04		0.0		

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
93	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.01	-63.1	23	1.59e-03	-13.1	2	0.02	-119.5	-1.227e+04	12

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2354	0.01	7.24e-03	0.0	34,35,0	9.40e-06	0.01	0.02	35,34,35	0.0	0	0.61	0.05	0.95
	4.28e-03	1.01e-03	0.0	34,35,0	1.93e-06	8.07e-03	1.91e-03	38,34,34			1.00	0.07	0.93
2355	0.01	8.15e-03	0.0	35,34,0	9.71e-06	0.01	0.02	34,34,34	0.0	0	0.61	0.05	0.95
	4.28e-03	1.01e-03	0.0	34,35,0	2.21e-06	8.07e-03	2.53e-03	38,34,34			1.00	0.07	0.93
2356	0.01	0.01	0.0	35,34,0	2.22e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	3.26e-03	4.96e-04	0.0	34,13,0	2.21e-06	5.58e-03	2.53e-03	38,34,34			1.00	0.07	0.93
2357	0.01	0.01	0.0	35,34,0	2.22e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	5.67e-03	2.31e-03	0.0	34,35,0	1.19e-06	0.01	3.77e-03	44,34,35			1.00	0.07	0.93
2358	0.01	9.24e-03	0.0	35,34,0	1.39e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	9.46e-03	5.10e-03	0.0	34,35,0	7.52e-06	0.02	3.77e-03	38,34,35			1.00	0.07	0.93
2359	9.90e-03	8.24e-03	0.0	36,33,0	1.39e-05	0.01	0.02	34,36,34	0.0	0	0.61	0.05	0.95
	9.46e-03	5.10e-03	0.0	34,35,0	7.52e-06	0.02	2.78e-03	38,34,35			1.00	0.07	0.93
2915	0.01	7.24e-03	0.0	34,35,0	9.40e-06	0.01	0.02	35,34,35	0.0	0	0.61	0.05	0.95
	4.28e-03	1.01e-03	0.0	34,35,0	1.93e-06	8.07e-03	1.91e-03	38,34,34			1.00	0.07	0.93
2916	0.01	8.15e-03	0.0	35,34,0	9.71e-06	0.01	0.02	34,34,34	0.0	0	0.61	0.05	0.95
	4.28e-03	1.01e-03	0.0	34,35,0	2.21e-06	8.07e-03	2.53e-03	38,34,34			1.00	0.07	0.93
2917	0.01	0.01	0.0	35,34,0	2.22e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	3.26e-03	4.96e-04	0.0	34,13,0	2.21e-06	5.58e-03	2.53e-03	38,34,34			1.00	0.07	0.93
2918	0.01	0.01	0.0	35,34,0	2.22e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	5.67e-03	2.31e-03	0.0	34,35,0	1.19e-06	0.01	3.77e-03	44,34,35			1.00	0.07	0.93
2919	0.01	9.24e-03	0.0	35,34,0	1.39e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	9.46e-03	5.10e-03	0.0	34,35,0	7.52e-06	0.02	3.77e-03	38,34,35			1.00	0.07	0.93
2920	9.90e-03	8.24e-03	0.0	36,33,0	1.39e-05	0.01	0.02	34,36,34	0.0	0	0.61	0.05	0.95
	9.46e-03	5.10e-03	0.0	34,35,0	7.52e-06	0.02	2.78e-03	38,34,35			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	0.01	0.0		2.22e-05	0.02	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Setto	Mat.	N. strati	Spessore	Incoll.	Stato
94	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	6.91e-03	-67.4	24	1.68e-03	26.1	8	0.02	-208.2	-3.349e+04	8

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2359	8.88e-03	7.12e-03	0.0	36,33,0	2.14e-05	0.01	0.01	35,36,33	0.0	0	0.61	0.05	0.95
	0.01	8.34e-03	0.0	34,35,0	9.25e-06	0.03	4.43e-03	35,34,35			1.00	0.07	0.93
2360	8.88e-03	7.12e-03	0.0	36,33,0	4.07e-05	0.01	0.01	35,36,33	0.0	0	0.61	0.05	0.95
	0.01	8.34e-03	0.0	34,35,0	2.14e-05	0.03	4.43e-03	35,34,35			1.00	0.07	0.93
2361	0.01	0.01	0.0	35,34,0	6.85e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	7.80e-03	0.0	34,35,0	3.78e-05	0.03	0.01	34,34,35			1.00	0.07	0.93
2362	0.02	0.02	0.0	35,34,0	6.85e-05	0.03	0.03	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	3.78e-05	0.05	0.01	34,34,35			1.00	0.07	0.93
2363	0.02	0.02	0.0	35,34,0	4.59e-05	0.03	0.03	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	6.26e-06	0.05	7.42e-03	34,34,35			1.00	0.07	0.93
2364	0.02	0.01	0.0	36,33,0	2.82e-05	0.02	0.02	34,36,33	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	8.51e-06	0.04	5.75e-03	34,34,35			1.00	0.07	0.93
2365	0.01	0.01	0.0	35,33,0	3.26e-05	0.02	0.02	34,35,33	0.0	0	0.61	0.05	0.95
	8.28e-03	4.80e-03	0.0	34,35,0	1.30e-05	0.02	2.45e-03	34,34,35			1.00	0.07	0.93
2366	0.01	8.66e-03	0.0	35,34,0	4.92e-05	0.01	0.02	28,35,34	0.0	0	0.61	0.05	0.95
	4.73e-03	9.41e-04	0.0	38,35,0	3.82e-05	7.14e-03	1.16e-03	28,38,2			1.00	0.07	0.93
2367	4.65e-03	4.41e-03	0.0	36,34,0	4.92e-05	5.70e-03	7.51e-03	28,34,34	0.0	0	0.61	0.05	0.95
	4.13e-03	9.41e-04	0.0	38,35,0	3.82e-05	7.14e-03	1.02e-03	28,38,35			1.00	0.07	0.93
2920	8.88e-03	7.12e-03	0.0	36,33,0	2.14e-05	0.01	0.01	35,36,33	0.0	0	0.61	0.05	0.95
	0.01	8.34e-03	0.0	34,35,0	9.25e-06	0.03	4.43e-03	35,34,35			1.00	0.07	0.93
2921	8.88e-03	7.12e-03	0.0	36,33,0	4.07e-05	0.01	0.01	35,36,33	0.0	0	0.61	0.05	0.95
	0.01	8.34e-03	0.0	34,35,0	2.14e-05	0.03	4.43e-03	35,34,35			1.00	0.07	0.93
2922	0.01	0.01	0.0	35,34,0	6.85e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	7.80e-03	0.0	34,35,0	3.78e-05	0.03	0.01	34,34,35			1.00	0.07	0.93
2923	0.02	0.02	0.0	35,34,0	6.85e-05	0.03	0.03	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	3.78e-05	0.05	0.01	34,34,35			1.00	0.07	0.93
2924	0.02	0.02	0.0	35,34,0	4.59e-05	0.03	0.03	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	6.26e-06	0.05	7.42e-03	34,34,35			1.00	0.07	0.93
2925	0.02	0.01	0.0	36,33,0	2.82e-05	0.02	0.02	34,36,33	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	8.51e-06	0.04	5.75e-03	34,34,35			1.00	0.07	0.93
2926	0.01	0.01	0.0	35,33,0	3.26e-05	0.02	0.02	34,35,33	0.0	0	0.61	0.05	0.95
	8.28e-03	4.80e-03	0.0	34,35,0	1.30e-05	0.02	2.45e-03	34,34,35			1.00	0.07	0.93
2927	0.01	8.66e-03	0.0	35,34,0	4.92e-05	0.01	0.02	28,35,34	0.0	0	0.61	0.05	0.95
	4.73e-03	9.41e-04	0.0	38,35,0	3.82e-05	7.14e-03	1.16e-03	28,38,2			1.00	0.07	0.93
2928	4.65e-03	4.41e-03	0.0	36,34,0	4.92e-05	5.70e-03	7.51e-03	28,34,34	0.0	0	0.61	0.05	0.95
	4.13e-03	9.41e-04	0.0	38,35,0	3.82e-05	7.14e-03	1.02e-03	28,38,35			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.02	0.0		6.85e-05	0.05	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
95	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	4.88e-03	41.5	46	2.01e-03	-27.3	2	0.01	-239.3	1.406e+04	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2368	7.19e-03	6.03e-03	0.0	36,34,0	7.49e-05	6.87e-03	8.75e-03	34,34,34	0.0	0	0.61	0.05	0.95
	4.91e-03	2.74e-03	0.0	34,34,0	5.37e-05	0.01	2.83e-03	28,34,35			1.00	0.07	0.93
2369	0.02	0.01	0.0	35,34,0	7.49e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	5.37e-05	0.03	7.86e-03	28,34,35			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2370	0.02	0.02	0.0	35,34,0	6.00e-05	0.03	0.04	33,35,33	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	34,35,0	1.51e-05	0.06	9.10e-03	34,34,35			1.00	0.07	0.93
2371	0.02	0.02	0.0	35,34,0	6.00e-05	0.03	0.04	33,35,33	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	34,35,0	1.98e-05	0.06	0.01	34,34,35			1.00	0.07	0.93
2372	0.02	0.01	0.0	35,34,0	3.74e-05	0.02	0.02	34,35,33	0.0	0	0.61	0.05	0.95
	0.01	9.21e-03	0.0	34,35,0	1.98e-05	0.03	0.01	34,34,35			1.00	0.07	0.93
2373	0.01	8.18e-03	0.0	36,33,0	2.55e-05	0.01	0.02	33,36,33	0.0	0	0.61	0.05	0.95
	4.80e-03	4.19e-03	0.0	34,35,0	1.27e-05	0.01	5.12e-03	34,34,35			1.00	0.07	0.93
2374	0.01	0.01	0.0	35,34,0	2.74e-05	0.02	0.02	33,35,34	0.0	0	0.61	0.05	0.95
	4.80e-03	4.19e-03	0.0	34,35,0	1.18e-05	0.01	5.12e-03	33,34,35			1.00	0.07	0.93
2375	0.01	0.01	0.0	35,34,0	2.74e-05	0.02	0.02	33,35,34	0.0	0	0.61	0.05	0.95
	6.28e-03	4.44e-03	0.0	34,35,0	9.26e-06	0.01	2.57e-03	38,34,33			1.00	0.07	0.93
2376	0.01	8.84e-03	0.0	36,33,0	1.65e-05	0.02	0.02	34,36,33	0.0	0	0.61	0.05	0.95
	6.28e-03	4.44e-03	0.0	34,35,0	9.26e-06	0.01	2.57e-03	38,34,33			1.00	0.07	0.93
2929	7.19e-03	6.03e-03	0.0	36,34,0	7.49e-05	6.87e-03	8.75e-03	34,34,34	0.0	0	0.61	0.05	0.95
	4.91e-03	2.74e-03	0.0	34,34,0	5.37e-05	0.01	2.83e-03	28,34,35			1.00	0.07	0.93
2930	0.02	0.01	0.0	35,34,0	7.49e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	34,35,0	5.37e-05	0.03	7.86e-03	28,34,35			1.00	0.07	0.93
2931	0.02	0.02	0.0	35,34,0	6.00e-05	0.03	0.04	33,35,33	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	34,35,0	1.51e-05	0.06	9.10e-03	34,34,35			1.00	0.07	0.93
2932	0.02	0.02	0.0	35,34,0	6.00e-05	0.03	0.04	33,35,33	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	34,35,0	1.98e-05	0.06	0.01	34,34,35			1.00	0.07	0.93
2933	0.02	0.01	0.0	35,34,0	3.74e-05	0.02	0.02	34,35,33	0.0	0	0.61	0.05	0.95
	0.01	9.21e-03	0.0	34,35,0	1.98e-05	0.03	0.01	34,34,35			1.00	0.07	0.93
2934	0.01	8.18e-03	0.0	36,33,0	2.55e-05	0.01	0.02	33,36,33	0.0	0	0.61	0.05	0.95
	4.80e-03	4.19e-03	0.0	34,35,0	1.27e-05	0.01	5.12e-03	34,34,35			1.00	0.07	0.93
2935	0.01	0.01	0.0	35,34,0	2.74e-05	0.02	0.02	33,35,34	0.0	0	0.61	0.05	0.95
	4.80e-03	4.19e-03	0.0	34,35,0	1.18e-05	0.01	5.12e-03	33,34,35			1.00	0.07	0.93
2936	0.01	0.01	0.0	35,34,0	2.74e-05	0.02	0.02	33,35,34	0.0	0	0.61	0.05	0.95
	6.28e-03	4.44e-03	0.0	34,35,0	9.26e-06	0.01	2.57e-03	38,34,33			1.00	0.07	0.93
2937	0.01	8.84e-03	0.0	36,33,0	1.65e-05	0.02	0.02	34,36,33	0.0	0	0.61	0.05	0.95
	6.28e-03	4.44e-03	0.0	34,35,0	9.26e-06	0.01	2.57e-03	38,34,33			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.02	0.0		7.49e-05	0.06	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
96	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.02	-180.8	18	2.26e-03	-35.6	28	5.02e-03	-203.2	8125.9	24

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2376	8.47e-03	6.87e-03	0.0	36,33,0	8.96e-06	0.01	0.01	34,36,33	0.0	0	0.61	0.05	0.95
	9.29e-03	6.33e-03	0.0	34,35,0	4.60e-06	0.02	3.19e-03	38,34,35			1.00	0.07	0.93
2377	9.88e-03	7.41e-03	0.0	36,33,0	1.17e-05	0.01	0.01	34,36,34	0.0	0	0.61	0.05	0.95
	9.29e-03	6.33e-03	0.0	34,35,0	4.60e-06	0.02	4.15e-03	38,34,35			1.00	0.07	0.93
2378	0.02	0.01	0.0	35,34,0	2.48e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	6.48e-03	3.98e-03	0.0	34,35,0	3.61e-06	0.01	4.15e-03	34,34,35			1.00	0.07	0.93
2379	0.02	0.01	0.0	35,34,0	2.48e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	7.43e-03	4.92e-03	0.0	34,35,0	3.06e-06	0.02	2.42e-03	34,34,35			1.00	0.07	0.93
2380	0.02	0.01	0.0	35,34,0	2.29e-05	0.02	0.02	33,35,34	0.0	0	0.61	0.05	0.95
	7.43e-03	4.92e-03	0.0	34,35,0	1.34e-06	0.02	2.42e-03	35,34,35			1.00	0.07	0.93
2381	0.02	0.01	0.0	35,34,0	2.29e-05	0.02	0.02	33,35,34	0.0	0	0.61	0.05	0.95
	7.03e-03	4.65e-03	0.0	34,35,0	5.55e-06	0.02	4.03e-03	34,34,35			1.00	0.07	0.93
2382	0.01	9.36e-03	0.0	35,34,0	1.84e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	9.93e-03	0.0	36,34,0	1.61e-05	0.03	4.99e-03	2,34,34			1.00	0.07	0.93
2383	7.13e-03	5.42e-03	0.0	36,33,0	1.63e-05	9.90e-03	0.01	2,36,35	0.0	0	0.61	0.05	0.95
	0.01	9.93e-03	0.0	36,34,0	1.61e-05	0.03	4.99e-03	2,34,34			1.00	0.07	0.93
2937	8.47e-03	6.87e-03	0.0	36,33,0	8.96e-06	0.01	0.01	34,36,33	0.0	0	0.61	0.05	0.95
	9.29e-03	6.33e-03	0.0	34,35,0	4.60e-06	0.02	3.19e-03	38,34,35			1.00	0.07	0.93
2938	9.88e-03	7.41e-03	0.0	36,33,0	1.17e-05	0.01	0.01	34,36,34	0.0	0	0.61	0.05	0.95
	9.29e-03	6.33e-03	0.0	34,35,0	4.60e-06	0.02	4.15e-03	38,34,35			1.00	0.07	0.93
2939	0.02	0.01	0.0	35,34,0	2.48e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	6.48e-03	3.98e-03	0.0	34,35,0	3.61e-06	0.01	4.15e-03	34,34,35			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2940	0.02	0.01	0.0	35,34,0	2.48e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	7.43e-03	4.92e-03	0.0	34,35,0	3.06e-06	0.02	2.42e-03	34,34,35			1.00	0.07	0.93
2941	0.02	0.01	0.0	35,34,0	2.29e-05	0.02	0.02	33,35,34	0.0	0	0.61	0.05	0.95
	7.43e-03	4.92e-03	0.0	34,35,0	1.34e-06	0.02	2.42e-03	35,34,35			1.00	0.07	0.93
2942	0.02	0.01	0.0	35,34,0	2.29e-05	0.02	0.02	33,35,34	0.0	0	0.61	0.05	0.95
	7.03e-03	4.65e-03	0.0	34,35,0	5.55e-06	0.02	4.03e-03	34,34,35			1.00	0.07	0.93
2943	0.01	9.36e-03	0.0	35,34,0	1.84e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	9.93e-03	0.0	36,34,0	1.61e-05	0.03	4.99e-03	2,34,34			1.00	0.07	0.93
2944	7.13e-03	5.42e-03	0.0	36,33,0	1.63e-05	9.90e-03	0.01	2,36,35	0.0	0	0.61	0.05	0.95
	0.01	9.93e-03	0.0	36,34,0	1.61e-05	0.03	4.99e-03	2,34,34			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.01	0.0		2.48e-05	0.03	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
97	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.01	154.7	28	7.28e-03	-120.3	25	0.01	-251.1	-1.935e+04	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2383	7.36e-03	5.53e-03	0.0	34,35,0	4.07e-05	0.01	0.01	34,36,35	0.0	0	0.61	0.05	0.95
	0.01	9.14e-03	0.0	36,34,0	2.63e-05	0.03	4.53e-03	28,34,34			1.00	0.07	0.93
2384	0.01	0.01	0.0	35,34,0	4.63e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	9.14e-03	0.0	36,34,0	2.63e-05	0.03	4.80e-03	28,34,35			1.00	0.07	0.93
2385	0.03	0.02	0.0	35,34,0	6.72e-05	0.04	0.04	33,35,34	0.0	0	0.61	0.05	0.95
	6.90e-03	5.24e-03	0.0	34,35,0	1.88e-05	0.02	4.80e-03	34,34,35			1.00	0.07	0.93
2386	0.03	0.02	0.0	35,34,0	6.72e-05	0.04	0.04	33,35,34	0.0	0	0.61	0.05	0.95
	6.90e-03	5.24e-03	0.0	34,35,0	5.51e-06	0.02	3.80e-03	33,34,35			1.00	0.07	0.93
2387	0.03	0.02	0.0	35,34,0	9.92e-05	0.04	0.05	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	34,35,0	6.06e-06	0.03	5.61e-03	33,34,35			1.00	0.07	0.93
2388	0.03	0.02	0.0	35,34,0	9.92e-05	0.04	0.05	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	34,35,0	1.96e-05	0.03	5.63e-03	35,34,35			1.00	0.07	0.93
2389	0.02	0.01	0.0	35,34,0	6.52e-05	0.02	0.03	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	34,35,0	3.59e-05	0.03	5.63e-03	34,34,35			1.00	0.07	0.93
2390	6.74e-03	5.95e-03	0.0	36,34,0	6.52e-05	5.68e-03	7.68e-03	34,35,34	0.0	0	0.61	0.05	0.95
	3.77e-03	2.57e-03	0.0	34,35,0	3.59e-05	8.35e-03	2.10e-03	34,34,35			1.00	0.07	0.93
2944	7.36e-03	5.53e-03	0.0	34,35,0	4.07e-05	0.01	0.01	34,36,35	0.0	0	0.61	0.05	0.95
	0.01	9.14e-03	0.0	36,34,0	2.63e-05	0.03	4.53e-03	28,34,34			1.00	0.07	0.93
2945	0.01	0.01	0.0	35,34,0	4.63e-05	0.02	0.02	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	9.14e-03	0.0	36,34,0	2.63e-05	0.03	4.80e-03	28,34,35			1.00	0.07	0.93
2946	0.03	0.02	0.0	35,34,0	6.72e-05	0.04	0.04	33,35,34	0.0	0	0.61	0.05	0.95
	6.90e-03	5.24e-03	0.0	34,35,0	1.88e-05	0.02	4.80e-03	34,34,35			1.00	0.07	0.93
2947	0.03	0.02	0.0	35,34,0	6.72e-05	0.04	0.04	33,35,34	0.0	0	0.61	0.05	0.95
	6.90e-03	5.24e-03	0.0	34,35,0	5.51e-06	0.02	3.80e-03	33,34,35			1.00	0.07	0.93
2948	0.03	0.02	0.0	35,34,0	9.92e-05	0.04	0.05	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	34,35,0	6.06e-06	0.03	5.61e-03	33,34,35			1.00	0.07	0.93
2949	0.03	0.02	0.0	35,34,0	9.92e-05	0.04	0.05	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	34,35,0	1.96e-05	0.03	5.63e-03	35,34,35			1.00	0.07	0.93
2950	0.02	0.01	0.0	35,34,0	6.52e-05	0.02	0.03	34,35,34	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	34,35,0	3.59e-05	0.03	5.63e-03	34,34,35			1.00	0.07	0.93
2951	6.74e-03	5.95e-03	0.0	36,34,0	6.52e-05	5.68e-03	7.68e-03	34,35,34	0.0	0	0.61	0.05	0.95
	3.77e-03	2.57e-03	0.0	34,35,0	3.59e-05	8.35e-03	2.10e-03	34,34,35			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.02	0.0		9.92e-05	0.04	0.05		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
98	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	385.9	11	0.03	244.1	11	0.02	164.6	1.080e+04	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2396	4.19e-03	3.07e-03	0.0	45,44,0	5.80e-06	3.70e-03	4.30e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.15	0.11	0.0	46,44,0	7.74e-06	0.34	0.06	43,46,44			1.00	0.07	0.93
2397	4.20e-03	3.09e-03	0.0	46,43,0	1.65e-05	3.79e-03	4.41e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.15	0.11	0.0	46,44,0	4.10e-05	0.34	0.06	43,46,44			1.00	0.07	0.93
2398	4.20e-03	3.12e-03	0.0	46,43,0	5.62e-05	3.88e-03	4.54e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	46,44,0	1.13e-04	0.24	0.05	43,46,44			1.00	0.07	0.93
2399	4.52e-03	3.76e-03	0.0	46,45,0	3.50e-04	5.04e-03	6.13e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	45,43,0	2.89e-04	0.23	0.05	43,45,45			1.00	0.07	0.93
2400	4.52e-03	3.76e-03	0.0	46,45,0	3.50e-04	5.04e-03	6.13e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	45,43,0	2.89e-04	0.23	0.05	43,45,45			1.00	0.07	0.93
3034	4.19e-03	3.07e-03	0.0	45,44,0	5.80e-06	3.70e-03	4.30e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.15	0.11	0.0	46,44,0	7.74e-06	0.34	0.06	43,46,44			1.00	0.07	0.93
3035	4.20e-03	3.09e-03	0.0	46,43,0	1.65e-05	3.79e-03	4.41e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.15	0.11	0.0	46,44,0	4.10e-05	0.34	0.06	43,46,44			1.00	0.07	0.93
3036	4.20e-03	3.12e-03	0.0	46,43,0	5.62e-05	3.88e-03	4.54e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	46,44,0	1.13e-04	0.24	0.05	43,46,44			1.00	0.07	0.93
3037	4.52e-03	3.76e-03	0.0	46,45,0	3.50e-04	5.04e-03	6.13e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	45,43,0	2.89e-04	0.23	0.05	43,45,45			1.00	0.07	0.93
3038	4.52e-03	3.76e-03	0.0	46,45,0	3.50e-04	5.04e-03	6.13e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	45,43,0	2.89e-04	0.23	0.05	43,45,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.15	0.11	0.0		3.50e-04	0.34	0.06		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
99	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.01	113.5	11	4.71e-03	-74.0	11	3.31e-03	-586.1	-5713.0	44

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2400	0.04	0.03	0.0	45,43,0	1.02e-03	0.05	0.06	44,45,45	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	43,45,0	5.78e-04	0.24	0.05	44,43,45			1.00	0.07	0.93
2401	0.04	0.03	0.0	45,43,0	1.02e-03	0.05	0.06	44,45,45	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	43,45,0	5.78e-04	0.24	0.05	44,43,45			1.00	0.07	0.93
2402	0.02	0.01	0.0	45,44,0	2.15e-04	0.02	0.03	44,45,44	0.0	0	0.61	0.05	0.95
	0.05	0.03	0.0	44,45,0	1.18e-04	0.10	0.02	44,44,45			1.00	0.07	0.93
2403	0.01	0.01	0.0	46,44,0	3.64e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	44,45,0	1.57e-05	0.05	9.12e-03	44,44,45			1.00	0.07	0.93
2404	0.01	0.01	0.0	46,44,0	1.64e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.01	8.41e-03	0.0	44,45,0	2.16e-06	0.03	4.33e-03	44,44,45			1.00	0.07	0.93
2405	0.01	0.01	0.0	46,44,0	3.64e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	8.38e-03	0.0	44,45,0	1.30e-05	0.03	4.44e-03	43,44,45			1.00	0.07	0.93
2406	0.02	0.01	0.0	45,44,0	9.74e-05	0.02	0.02	44,45,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	44,45,0	4.44e-05	0.05	6.83e-03	44,44,45			1.00	0.07	0.93
2407	0.02	0.02	0.0	45,43,0	3.28e-04	0.03	0.03	44,45,45	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	43,45,0	1.83e-04	0.05	9.31e-03	44,43,45			1.00	0.07	0.93
2408	0.02	0.02	0.0	45,43,0	3.28e-04	0.03	0.03	44,45,45	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	43,45,0	1.83e-04	0.05	9.31e-03	44,43,45			1.00	0.07	0.93
3038	0.04	0.03	0.0	45,43,0	1.02e-03	0.05	0.06	44,45,45	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	43,45,0	5.78e-04	0.24	0.05	44,43,45			1.00	0.07	0.93
3039	0.04	0.03	0.0	45,43,0	1.02e-03	0.05	0.06	44,45,45	0.0	0	0.61	0.05	0.95
	0.10	0.08	0.0	43,45,0	5.78e-04	0.24	0.05	44,43,45			1.00	0.07	0.93
3040	0.02	0.01	0.0	45,44,0	2.15e-04	0.02	0.03	44,45,44	0.0	0	0.61	0.05	0.95
	0.05	0.03	0.0	44,45,0	1.18e-04	0.10	0.02	44,44,45			1.00	0.07	0.93
3041	0.01	0.01	0.0	46,44,0	3.64e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	44,45,0	1.57e-05	0.05	9.12e-03	44,44,45			1.00	0.07	0.93
3042	0.01	0.01	0.0	46,44,0	1.64e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



3043	0.01	8.41e-03	0.0	44,45,0	2.16e-06	0.03	4.33e-03	44,44,45			1.00	0.07	0.93
	0.01	0.01	0.0	46,44,0	3.64e-05	0.02	0.02	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	8.38e-03	0.0	44,45,0	1.30e-05	0.03	4.44e-03	43,44,45			1.00	0.07	0.93
3044	0.02	0.01	0.0	45,44,0	9.74e-05	0.02	0.02	44,45,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	44,45,0	4.44e-05	0.05	6.83e-03	44,44,45			1.00	0.07	0.93
3045	0.02	0.02	0.0	45,43,0	3.28e-04	0.03	0.03	44,45,45	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	43,45,0	1.83e-04	0.05	9.31e-03	44,43,45			1.00	0.07	0.93
3046	0.02	0.02	0.0	45,43,0	3.28e-04	0.03	0.03	44,45,45	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	43,45,0	1.83e-04	0.05	9.31e-03	44,43,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.10	0.08	0.0		1.02e-03	0.24	0.06		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
100	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	4.64e-03	daN -50.1	12	1.52e-03	daN 26.3	23	1.94e-03	daN -552.4	daN cm 3675.5	24

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2416	0.03	0.02	0.0	46,44,0	1.75e-04	0.04	0.04	44,46,44	0.0	0	0.61	0.05	0.95
	0.04	0.02	0.0	44,46,0	7.76e-05	0.08	0.01	44,44,44			1.00	0.07	0.93
2417	0.03	0.02	0.0	46,44,0	1.75e-04	0.04	0.04	44,46,44	0.0	0	0.61	0.05	0.95
	0.04	0.02	0.0	44,46,0	7.76e-05	0.08	0.01	44,44,44			1.00	0.07	0.93
2418	0.02	0.02	0.0	45,44,0	3.67e-05	0.02	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	44,46,0	1.11e-05	0.07	0.01	44,44,46			1.00	0.07	0.93
2419	0.02	0.01	0.0	45,43,0	3.98e-05	0.02	0.03	44,45,43	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,45,0	2.41e-05	0.04	0.01	44,43,45			1.00	0.07	0.93
2420	0.01	9.08e-03	0.0	45,45,0	3.98e-05	0.02	0.02	44,45,45	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	44,44,0	2.41e-05	0.03	0.01	44,44,45			1.00	0.07	0.93
2421	5.20e-03	3.80e-03	0.0	45,45,0	8.20e-06	7.20e-03	7.92e-03	44,45,43	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	44,44,0	4.07e-06	0.03	5.54e-03	44,44,44			1.00	0.07	0.93
2422	0.01	9.08e-03	0.0	45,45,0	3.91e-05	0.02	0.02	44,45,45	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	44,44,0	2.35e-05	0.03	0.01	44,44,45			1.00	0.07	0.93
2423	0.02	0.01	0.0	45,43,0	3.91e-05	0.02	0.03	44,45,43	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,45,0	2.35e-05	0.04	0.01	44,43,45			1.00	0.07	0.93
2424	0.02	0.02	0.0	45,44,0	3.67e-05	0.02	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	44,46,0	1.12e-05	0.07	0.01	44,44,46			1.00	0.07	0.93
2425	0.03	0.02	0.0	46,44,0	1.74e-04	0.04	0.04	44,46,44	0.0	0	0.61	0.05	0.95
	0.04	0.02	0.0	44,46,0	7.67e-05	0.08	0.01	44,44,44			1.00	0.07	0.93
2426	0.03	0.02	0.0	46,44,0	1.74e-04	0.04	0.04	44,46,44	0.0	0	0.61	0.05	0.95
	0.04	0.02	0.0	44,46,0	7.67e-05	0.08	0.01	44,44,44			1.00	0.07	0.93
3054	0.03	0.02	0.0	46,44,0	1.75e-04	0.04	0.04	44,46,44	0.0	0	0.61	0.05	0.95
	0.04	0.02	0.0	44,46,0	7.76e-05	0.08	0.01	44,44,44			1.00	0.07	0.93
3055	0.03	0.02	0.0	46,44,0	1.75e-04	0.04	0.04	44,46,44	0.0	0	0.61	0.05	0.95
	0.04	0.02	0.0	44,46,0	7.76e-05	0.08	0.01	44,44,44			1.00	0.07	0.93
3056	0.02	0.02	0.0	45,44,0	3.67e-05	0.02	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	44,46,0	1.11e-05	0.07	0.01	44,44,46			1.00	0.07	0.93
3057	0.02	0.01	0.0	45,43,0	3.98e-05	0.02	0.03	44,45,43	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,45,0	2.41e-05	0.04	0.01	44,43,45			1.00	0.07	0.93
3058	0.01	9.08e-03	0.0	45,45,0	3.98e-05	0.02	0.02	44,45,45	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	44,44,0	2.41e-05	0.03	0.01	44,44,45			1.00	0.07	0.93
3059	5.20e-03	3.80e-03	0.0	45,45,0	8.20e-06	7.20e-03	7.92e-03	44,45,43	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	44,44,0	4.07e-06	0.03	5.54e-03	44,44,44			1.00	0.07	0.93
3060	0.01	9.08e-03	0.0	45,45,0	3.91e-05	0.02	0.02	44,45,45	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	44,44,0	2.35e-05	0.03	0.01	44,44,45			1.00	0.07	0.93
3061	0.02	0.01	0.0	45,43,0	3.91e-05	0.02	0.03	44,45,43	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,45,0	2.35e-05	0.04	0.01	44,43,45			1.00	0.07	0.93
3062	0.02	0.02	0.0	45,44,0	3.67e-05	0.02	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.03	0.02	0.0	44,46,0	1.12e-05	0.07	0.01	44,44,46			1.00	0.07	0.93
3063	0.03	0.02	0.0	46,44,0	1.74e-04	0.04	0.04	44,46,44	0.0	0	0.61	0.05	0.95
	0.04	0.02	0.0	44,46,0	7.67e-05	0.08	0.01	44,44,44			1.00	0.07	0.93
3064	0.03	0.02	0.0	46,44,0	1.74e-04	0.04	0.04	44,46,44	0.0	0	0.61	0.05	0.95
	0.04	0.02	0.0	44,46,0	7.67e-05	0.08	0.01	44,44,44			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.04	0.02	0.0	1.75e-04	0.08	0.04	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
101	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.01	daN -131.1	24	3.89e-03	daN -59.2	18	0.02	daN 249.3	daN cm 2.572e+04	18

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2426	0.02	0.02	0.0	46,43,0	3.80e-04	0.03	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,44,0	2.27e-04	0.04	0.02	44,43,44			1.00	0.07	0.93
2427	0.02	0.02	0.0	46,43,0	3.80e-04	0.03	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,44,0	2.27e-04	0.04	0.02	44,43,44			1.00	0.07	0.93
2428	6.29e-03	4.60e-03	0.0	46,44,0	3.52e-04	8.59e-03	9.47e-03	44,46,43	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	45,44,0	2.10e-04	0.06	0.01	44,45,44			1.00	0.07	0.93
2429	4.24e-03	3.10e-03	0.0	45,44,0	1.72e-04	7.37e-03	7.36e-03	44,45,43	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	1.01e-04	0.07	0.01	44,45,44			1.00	0.07	0.93
2430	4.23e-03	3.09e-03	0.0	45,44,0	2.46e-05	7.43e-03	4.83e-03	44,46,38	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	1.44e-05	0.07	0.01	44,45,44			1.00	0.07	0.93
2431	4.24e-03	3.10e-03	0.0	45,44,0	1.61e-04	7.43e-03	7.57e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	9.20e-05	0.07	0.01	43,45,44			1.00	0.07	0.93
2432	5.80e-03	4.25e-03	0.0	45,45,0	3.68e-04	8.25e-03	9.09e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.02	0.03	0.0	45,44,0	2.15e-04	0.06	0.01	43,45,44			1.00	0.07	0.93
2433	0.02	0.01	0.0	46,45,0	4.65e-04	0.02	0.03	44,46,45	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	45,44,0	2.71e-04	0.03	0.01	44,45,45			1.00	0.07	0.93
2434	0.02	0.01	0.0	46,45,0	4.65e-04	0.02	0.03	44,46,45	0.0	0	0.61	0.05	0.95
	6.61e-03	6.73e-03	0.0	45,45,0	2.71e-04	0.02	0.01	44,45,45			1.00	0.07	0.93
3064	0.02	0.02	0.0	46,43,0	3.80e-04	0.03	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,44,0	2.27e-04	0.04	0.02	44,43,44			1.00	0.07	0.93
3065	0.02	0.02	0.0	46,43,0	3.80e-04	0.03	0.03	44,46,44	0.0	0	0.61	0.05	0.95
	0.02	0.01	0.0	43,44,0	2.27e-04	0.04	0.02	44,43,44			1.00	0.07	0.93
3066	6.29e-03	4.60e-03	0.0	46,44,0	3.52e-04	8.59e-03	9.47e-03	44,46,43	0.0	0	0.61	0.05	0.95
	0.02	0.02	0.0	45,44,0	2.10e-04	0.06	0.01	44,45,44			1.00	0.07	0.93
3067	4.24e-03	3.10e-03	0.0	45,44,0	1.72e-04	7.37e-03	7.36e-03	44,45,43	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	1.01e-04	0.07	0.01	44,45,44			1.00	0.07	0.93
3068	4.23e-03	3.09e-03	0.0	45,44,0	2.46e-05	7.43e-03	4.83e-03	44,46,38	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	1.44e-05	0.07	0.01	44,45,44			1.00	0.07	0.93
3069	4.24e-03	3.10e-03	0.0	45,44,0	1.61e-04	7.43e-03	7.57e-03	43,46,44	0.0	0	0.61	0.05	0.95
	0.03	0.03	0.0	45,44,0	9.20e-05	0.07	0.01	43,45,44			1.00	0.07	0.93
3070	5.80e-03	4.25e-03	0.0	45,45,0	3.68e-04	8.25e-03	9.09e-03	43,46,45	0.0	0	0.61	0.05	0.95
	0.02	0.03	0.0	45,44,0	2.15e-04	0.06	0.01	43,45,44			1.00	0.07	0.93
3071	0.02	0.01	0.0	46,45,0	4.65e-04	0.02	0.03	44,46,45	0.0	0	0.61	0.05	0.95
	0.01	0.01	0.0	45,44,0	2.71e-04	0.03	0.01	44,45,45			1.00	0.07	0.93
3072	0.02	0.01	0.0	46,45,0	4.65e-04	0.02	0.03	44,46,45	0.0	0	0.61	0.05	0.95
	6.61e-03	6.73e-03	0.0	45,45,0	2.71e-04	0.02	0.01	44,45,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.03	0.03	0.0		4.65e-04	0.07	0.03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
102	XLAM vert 10 (2+2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.02	daN -21.1	8	6.74e-03	daN -70.6	30	5.36e-04	daN -21.7	daN cm -662.5	40

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2641	0.0	3.74e-04	0.0	0,12,0	8.55e-05	1.02e-03	1.38e-03	12,14,12	0.0	0	0.0	0.0	0.0
	0.01	0.01	0.0	14,11,0	4.13e-05	0.03	9.75e-03	12,14,11			1.00	0.07	0.93
2658	5.48e-04	7.37e-04	0.0	13,12,0	3.77e-04	1.99e-03	2.55e-03	12,13,12	0.0	0	0.41	0.07	0.93
	0.01	0.01	0.0	14,11,0	1.68e-04	0.03	9.75e-03	12,14,11			1.00	0.07	0.93
2782	1.08e-03	1.12e-03	0.0	13,12,0	9.18e-04	2.48e-03	3.22e-03	12,13,12	0.0	0	0.41	0.07	0.93
	0.01	9.38e-03	0.0	14,11,0	4.07e-04	0.03	4.65e-03	12,14,11			1.00	0.07	0.93
2791	2.49e-03	2.11e-03	0.0	14,11,0	1.78e-03	3.08e-03	4.25e-03	12,14,11	0.0	0	0.41	0.07	0.93
	4.35e-03	4.83e-03	0.0	13,12,0	7.85e-04	0.01	6.04e-03	12,13,12			1.00	0.07	0.93
2799	7.11e-03	5.40e-03	0.0	14,11,0	3.33e-03	0.01	0.02	13,14,11	0.0	0	0.41	0.07	0.93
	1.69e-03	3.90e-03	0.0	45,8,0	1.46e-03	0.02	0.02	13,12,12			1.00	0.07	0.93
2805	0.02	0.02	0.0	14,11,0	3.33e-03	0.06	0.07	13,14,11	0.0	0	0.41	0.07	0.93
	0.09	0.07	0.0	13,12,0	1.80e-03	0.21	0.16	12,13,12			1.00	0.07	0.93
2818	0.02	0.02	0.0	14,11,0	2.14e-03	0.06	0.07	12,14,11	0.0	0	0.41	0.07	0.93
	0.09	0.07	0.0	13,12,0	1.80e-03	0.21	0.16	12,13,12			1.00	0.07	0.93
3003	0.02	0.02	0.0	14,11,0	3.33e-03	0.06	0.07	13,14,11	0.0	0	0.41	0.07	0.93
	0.09	0.07	0.0	13,12,0	1.80e-03	0.21	0.16	12,13,12			1.00	0.07	0.93
3005	7.11e-03	5.40e-03	0.0	14,11,0	3.33e-03	0.01	0.02	13,14,11	0.0	0	0.41	0.07	0.93
	1.69e-03	3.90e-03	0.0	45,8,0	1.46e-03	0.02	0.02	13,12,12			1.00	0.07	0.93
3007	2.49e-03	2.11e-03	0.0	14,11,0	1.78e-03	3.08e-03	4.25e-03	12,14,11	0.0	0	0.41	0.07	0.93
	4.35e-03	4.83e-03	0.0	13,12,0	7.85e-04	0.01	6.04e-03	12,13,12			1.00	0.07	0.93
3009	1.08e-03	1.12e-03	0.0	13,12,0	9.18e-04	2.48e-03	3.22e-03	12,13,12	0.0	0	0.41	0.07	0.93
	0.01	9.38e-03	0.0	14,11,0	4.07e-04	0.03	4.65e-03	12,14,11			1.00	0.07	0.93
3011	5.48e-04	7.37e-04	0.0	13,12,0	3.77e-04	1.99e-03	2.55e-03	12,13,12	0.0	0	0.41	0.07	0.93
	0.01	0.01	0.0	14,11,0	1.68e-04	0.03	9.75e-03	12,14,11			1.00	0.07	0.93
3013	0.0	3.74e-04	0.0	0,12,0	8.55e-05	1.02e-03	1.38e-03	12,14,12	0.0	0	0.0	0.0	0.0
	0.01	0.01	0.0	14,11,0	4.13e-05	0.03	9.75e-03	12,14,11			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.09	0.07	0.0		3.33e-03	0.21	0.16		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
103	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.02	daN -19.4	12	5.32e-03	daN 84.2	38	8.12e-04	daN 10.7	daN cm 1274.1	12

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2391	0.04	0.03	0.0	12,13,0	2.00e-03	0.13	0.10	12,12,13	0.0	0	0.61	0.05	0.95
	0.08	0.06	0.0	13,12,0	1.73e-03	0.19	0.15	12,13,12			1.00	0.07	0.93
2464	7.69e-03	5.82e-03	0.0	14,11,0	3.72e-03	0.03	0.03	13,14,13	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	1.92e-03	0.12	0.03	13,13,12			1.00	0.07	0.93
2482	7.69e-03	5.82e-03	0.0	14,11,0	3.72e-03	0.03	0.03	13,14,13	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	13,12,0	1.92e-03	0.15	0.03	13,13,12			1.00	0.07	0.93
2501	3.26e-03	2.90e-03	0.0	13,12,0	2.58e-03	7.97e-03	8.91e-03	12,13,12	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	13,12,0	1.33e-03	0.15	0.02	12,13,12			1.00	0.07	0.93
2565	1.67e-03	1.67e-03	0.0	13,12,0	1.82e-03	4.26e-03	4.93e-03	12,13,12	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	13,12,0	9.47e-04	0.14	0.02	12,13,12			1.00	0.07	0.93
2583	1.11e-03	1.17e-03	0.0	14,11,0	1.06e-03	3.55e-03	4.02e-03	14,14,11	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	5.48e-04	0.12	0.02	14,13,12			1.00	0.07	0.93
2606	6.74e-04	8.79e-04	0.0	14,11,0	5.33e-04	2.98e-03	3.46e-03	12,14,11	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	13,12,0	2.77e-04	0.10	0.02	12,13,12			1.00	0.07	0.93
2625	3.03e-04	6.26e-04	0.0	13,12,0	1.81e-04	2.53e-03	2.90e-03	12,11,12	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	14,11,0	9.55e-05	0.08	0.02	12,14,11			1.00	0.07	0.93
2641	0.0	3.04e-04	0.0	0,8,0	1.80e-05	2.53e-03	2.68e-03	12,11,12	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	14,11,0	1.78e-05	0.05	0.02	12,14,11			1.00	0.07	0.93
3013	0.0	3.04e-04	0.0	0,8,0	1.80e-05	2.53e-03	2.68e-03	12,11,12	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	14,11,0	1.78e-05	0.05	0.02	12,14,11			1.00	0.07	0.93
3015	3.03e-04	6.26e-04	0.0	13,12,0	1.81e-04	2.53e-03	2.90e-03	12,11,12	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	14,11,0	9.55e-05	0.08	0.02	12,14,11			1.00	0.07	0.93
3017	6.74e-04	8.79e-04	0.0	14,11,0	5.33e-04	2.98e-03	3.46e-03	12,14,11	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	13,12,0	2.77e-04	0.10	0.02	12,13,12			1.00	0.07	0.93
3019	1.11e-03	1.17e-03	0.0	14,11,0	1.06e-03	3.55e-03	4.02e-03	14,14,11	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	13,12,0	5.48e-04	0.12	0.02	14,13,12			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



3021	1.67e-03	1.67e-03	0.0	13,12,0	1.82e-03	4.26e-03	4.93e-03	12,13,12	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	13,12,0	9.47e-04	0.14	0.02	12,13,12			1.00	0.07	0.93
3023	3.26e-03	2.90e-03	0.0	13,12,0	2.58e-03	7.97e-03	8.91e-03	12,13,12	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	13,12,0	1.33e-03	0.15	0.02	12,13,12			1.00	0.07	0.93
3025	7.69e-03	5.82e-03	0.0	14,11,0	3.72e-03	0.03	0.03	13,14,13	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	13,12,0	1.92e-03	0.15	0.03	13,13,12			1.00	0.07	0.93
3027	0.04	0.03	0.0	12,13,0	3.72e-03	0.13	0.10	13,12,13	0.0	0	0.61	0.05	0.95
	0.08	0.06	0.0	13,12,0	1.92e-03	0.19	0.15	13,13,12			1.00	0.07	0.93
3029	0.04	0.03	0.0	12,13,0	2.00e-03	0.13	0.10	12,12,13	0.0	0	0.61	0.05	0.95
	0.08	0.06	0.0	13,12,0	1.73e-03	0.19	0.15	12,13,12			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.08	0.06	0.0		3.72e-03	0.19	0.15		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
104	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.05	53.2	38	3.92e-03	29.4	38	2.18e-03	4.7	1524.1	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2664	3.35e-04	5.22e-04	0.0	13,12,0	3.78e-05	1.96e-03	2.40e-03	12,13,11	0.0	0	0.37	0.08	0.92
	6.61e-03	5.57e-03	0.0	13,12,0	1.97e-05	0.02	5.35e-03	12,13,12			1.00	0.07	0.93
2810	8.73e-04	7.84e-04	0.0	14,11,0	3.78e-05	1.96e-03	2.40e-03	12,13,11	0.0	0	0.37	0.08	0.92
	0.01	0.01	0.0	13,12,0	1.97e-05	0.03	5.35e-03	12,13,12			1.00	0.07	0.93
2889	8.73e-04	7.84e-04	0.0	14,11,0	1.75e-05	1.28e-03	1.78e-03	12,14,11	0.0	0	0.37	0.08	0.92
	0.01	0.01	0.0	13,12,0	7.80e-06	0.03	5.06e-03	12,13,12			1.00	0.07	0.93
2893	2.46e-04	2.72e-04	0.0	14,11,0	3.29e-06	2.77e-04	4.78e-04	12,14,11	0.0	0	0.37	0.08	0.92
	5.83e-03	5.90e-03	0.0	13,12,0	1.92e-06	0.01	3.95e-03	12,13,12			1.00	0.07	0.93
2986	3.35e-04	5.22e-04	0.0	13,12,0	3.78e-05	1.96e-03	2.40e-03	12,13,11	0.0	0	0.37	0.08	0.92
	6.61e-03	5.57e-03	0.0	13,12,0	1.97e-05	0.02	5.35e-03	12,13,12			1.00	0.07	0.93
2993	8.73e-04	7.84e-04	0.0	14,11,0	3.78e-05	1.96e-03	2.40e-03	12,13,11	0.0	0	0.37	0.08	0.92
	0.01	0.01	0.0	13,12,0	1.97e-05	0.03	5.35e-03	12,13,12			1.00	0.07	0.93
2995	8.73e-04	7.84e-04	0.0	14,11,0	1.75e-05	1.28e-03	1.78e-03	12,14,11	0.0	0	0.37	0.08	0.92
	0.01	0.01	0.0	13,12,0	7.80e-06	0.03	5.06e-03	12,13,12			1.00	0.07	0.93
2997	2.46e-04	2.72e-04	0.0	14,11,0	3.29e-06	2.77e-04	4.78e-04	12,14,11	0.0	0	0.37	0.08	0.92
	5.83e-03	5.90e-03	0.0	13,12,0	1.92e-06	0.01	3.95e-03	12,13,12			1.00	0.07	0.93
2998	0.0	1.13e-04	0.0	0,8,0	0.0	2.43e-04	3.10e-04	8,12,12	0.0	0	0.0	0.0	0.0
	1.16e-03	2.69e-03	0.0	13,12,0	0.0	3.68e-03	1.84e-03	8,13,12			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	0.01	0.0		3.78e-05	0.03	5.35e-03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
105	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.05	-60.6	2	4.06e-03	39.6	34	1.03e-03	-32.9	970.3	33

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2581	0.0	8.10e-04	0.0	0,8,0	2.34e-05	2.94e-03	3.61e-03	12,14,12	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	12,13,0	2.01e-05	0.05	0.02	12,12,13			1.00	0.07	0.93
2604	0.0	8.10e-04	0.0	0,8,0	2.22e-04	2.94e-03	3.61e-03	12,14,12	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	12,13,0	1.09e-04	0.05	0.02	12,12,13			1.00	0.07	0.93
2617	6.47e-04	8.71e-04	0.0	13,12,0	6.68e-04	2.95e-03	3.53e-03	12,13,12	0.0	0	0.50	0.06	0.94

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	0.02	0.02	0.0	12,13,0	3.29e-04	0.05	8.20e-03	12,12,13			1.00	0.07	0.93
2634	1.36e-03	1.22e-03	0.0	14,11,0	1.35e-03	5.23e-03	5.80e-03	12,14,11	0.0	0	0.50	0.06	0.94
	0.02	0.01	0.0	12,13,0	6.55e-04	0.04	5.93e-03	12,12,13			1.00	0.07	0.93
2651	1.99e-03	1.69e-03	0.0	14,11,0	2.26e-03	0.02	0.02	12,14,11	0.0	0	0.50	0.06	0.94
	7.25e-03	5.57e-03	0.0	13,12,0	1.09e-03	0.02	5.19e-03	12,13,12			1.00	0.07	0.93
2666	1.99e-03	1.69e-03	0.0	14,11,0	2.26e-03	0.02	0.02	12,14,11	0.0	0	0.50	0.06	0.94
	1.05e-03	1.19e-03	0.0	13,12,0	1.09e-03	3.76e-03	3.58e-03	12,13,12			1.00	0.07	0.93
2968	0.0	8.10e-04	0.0	0,8,0	2.34e-05	2.94e-03	3.61e-03	12,14,12	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	12,13,0	2.01e-05	0.05	0.02	12,12,13			1.00	0.07	0.93
2978	0.0	8.10e-04	0.0	0,8,0	2.22e-04	2.94e-03	3.61e-03	12,14,12	0.0	0	0.0	0.0	0.0
	0.02	0.02	0.0	12,13,0	1.09e-04	0.05	0.02	12,12,13			1.00	0.07	0.93
2980	6.47e-04	8.71e-04	0.0	13,12,0	6.68e-04	2.95e-03	3.53e-03	12,13,12	0.0	0	0.50	0.06	0.94
	0.02	0.02	0.0	12,13,0	3.29e-04	0.05	8.20e-03	12,12,13			1.00	0.07	0.93
2982	1.36e-03	1.22e-03	0.0	14,11,0	1.35e-03	5.23e-03	5.80e-03	12,14,11	0.0	0	0.50	0.06	0.94
	0.02	0.01	0.0	12,13,0	6.55e-04	0.04	5.93e-03	12,12,13			1.00	0.07	0.93
2984	1.99e-03	1.69e-03	0.0	14,11,0	2.26e-03	0.02	0.02	12,14,11	0.0	0	0.50	0.06	0.94
	7.25e-03	5.57e-03	0.0	13,12,0	1.09e-03	0.02	5.19e-03	12,13,12			1.00	0.07	0.93
2988	1.99e-03	1.69e-03	0.0	14,11,0	2.26e-03	0.02	0.02	12,14,11	0.0	0	0.50	0.06	0.94
	1.05e-03	1.19e-03	0.0	13,12,0	1.09e-03	3.76e-03	3.58e-03	12,13,12			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.02	0.0		2.26e-03	0.05	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
106	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.02	14.0	28	7.44e-03	-26.5	28	3.61e-04	-2.2	237.6	28

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2720	9.44e-03	7.50e-03	0.0	26,24,0	2.69e-05	0.02	0.02	24,26,24	0.0	0	0.37	0.08	0.92
	2.73e-03	2.74e-03	0.0	25,8,0	1.03e-06	6.35e-03	1.26e-03	28,25,8			1.00	0.07	0.93
2804	9.44e-03	7.50e-03	0.0	26,24,0	2.69e-05	0.02	0.02	24,26,24	0.0	0	0.37	0.08	0.92
	4.01e-03	2.92e-03	0.0	26,23,0	5.30e-06	9.24e-03	3.43e-03	24,26,23			1.00	0.07	0.93
2888	3.07e-04	3.41e-04	0.0	25,24,0	1.04e-05	1.19e-03	1.46e-03	24,26,23	0.0	0	0.37	0.08	0.92
	6.96e-03	4.48e-03	0.0	26,23,0	5.30e-06	0.02	3.43e-03	24,26,23			1.00	0.07	0.93
2892	3.07e-04	3.41e-04	0.0	25,24,0	3.14e-06	3.44e-04	6.01e-04	24,25,24	0.0	0	0.37	0.08	0.92
	6.96e-03	4.48e-03	0.0	26,23,0	1.63e-06	0.02	2.92e-03	24,26,23			1.00	0.07	0.93
2896	0.0	1.46e-04	0.0	0,18,0	0.0	2.41e-04	3.49e-04	18,24,24	0.0	0	0.0	0.0	0.0
	3.81e-03	1.35e-03	0.0	24,25,0	0.0	7.15e-03	1.57e-03	18,24,25			1.00	0.07	0.93
2992	9.44e-03	7.50e-03	0.0	26,24,0	2.69e-05	0.02	0.02	24,26,24	0.0	0	0.37	0.08	0.92
	4.01e-03	2.92e-03	0.0	26,23,0	5.30e-06	9.24e-03	3.43e-03	24,26,23			1.00	0.07	0.93
2994	3.07e-04	3.41e-04	0.0	25,24,0	1.04e-05	1.19e-03	1.46e-03	24,26,23	0.0	0	0.37	0.08	0.92
	6.96e-03	4.48e-03	0.0	26,23,0	5.30e-06	0.02	3.43e-03	24,26,23			1.00	0.07	0.93
2996	3.07e-04	3.41e-04	0.0	25,24,0	3.14e-06	3.44e-04	6.01e-04	24,25,24	0.0	0	0.37	0.08	0.92
	6.96e-03	4.48e-03	0.0	26,23,0	1.63e-06	0.02	2.92e-03	24,26,23			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	9.44e-03	7.50e-03	0.0		2.69e-05	0.02	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
107	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.02	-18.2	24	8.34e-03	114.4	44	6.65e-04	-16.5	-901.1	33

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2451	0.04	0.03	0.0	25,24,0	2.05e-03	0.12	0.13	24,25,24	0.0	0	0.61	0.05	0.95
	0.07	0.06	0.0	25,24,0	1.56e-03	0.18	0.15	24,25,24			1.00	0.07	0.93
2465	7.19e-03	5.52e-03	0.0	26,23,0	3.27e-03	0.03	0.03	25,26,23	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	1.69e-03	0.12	0.03	25,25,24			1.00	0.07	0.93
2483	7.19e-03	5.52e-03	0.0	26,23,0	3.27e-03	0.03	0.03	25,26,23	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	25,24,0	1.69e-03	0.14	0.03	25,25,24			1.00	0.07	0.93
2552	3.10e-03	2.77e-03	0.0	25,24,0	2.20e-03	7.67e-03	8.58e-03	25,25,24	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	25,24,0	1.13e-03	0.14	0.02	25,25,24			1.00	0.07	0.93
2568	1.55e-03	1.55e-03	0.0	25,24,0	1.51e-03	4.12e-03	4.74e-03	24,25,23	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	25,24,0	7.84e-04	0.13	0.02	24,25,24			1.00	0.07	0.93
2586	9.90e-04	1.08e-03	0.0	26,23,0	8.33e-04	3.38e-03	3.83e-03	26,26,23	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	4.30e-04	0.12	0.02	26,25,24			1.00	0.07	0.93
2609	6.14e-04	8.42e-04	0.0	26,23,0	3.78e-04	2.63e-03	3.11e-03	24,26,23	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	25,24,0	1.99e-04	0.09	0.02	24,25,23			1.00	0.07	0.93
2628	0.0	3.83e-04	0.0	0,24,0	1.06e-04	1.44e-03	1.73e-03	24,24,24	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	26,23,0	6.74e-05	0.06	0.02	24,26,23			1.00	0.07	0.93
3016	0.0	3.83e-04	0.0	0,24,0	1.06e-04	1.44e-03	1.73e-03	24,24,24	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	26,23,0	6.74e-05	0.06	0.02	24,26,23			1.00	0.07	0.93
3018	6.14e-04	8.42e-04	0.0	26,23,0	3.78e-04	2.63e-03	3.11e-03	24,26,23	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	25,24,0	1.99e-04	0.09	0.02	24,25,23			1.00	0.07	0.93
3020	9.90e-04	1.08e-03	0.0	26,23,0	8.33e-04	3.38e-03	3.83e-03	26,26,23	0.0	0	0.61	0.05	0.95
	0.05	0.04	0.0	25,24,0	4.30e-04	0.12	0.02	26,25,24			1.00	0.07	0.93
3022	1.55e-03	1.55e-03	0.0	25,24,0	1.51e-03	4.12e-03	4.74e-03	24,25,23	0.0	0	0.61	0.05	0.95
	0.06	0.04	0.0	25,24,0	7.84e-04	0.13	0.02	24,25,24			1.00	0.07	0.93
3024	3.10e-03	2.77e-03	0.0	25,24,0	2.20e-03	7.67e-03	8.58e-03	25,25,24	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	25,24,0	1.13e-03	0.14	0.02	25,25,24			1.00	0.07	0.93
3026	7.19e-03	5.52e-03	0.0	26,23,0	3.27e-03	0.03	0.03	25,26,23	0.0	0	0.61	0.05	0.95
	0.06	0.05	0.0	25,24,0	1.69e-03	0.14	0.03	25,25,24			1.00	0.07	0.93
3028	0.04	0.03	0.0	25,24,0	3.27e-03	0.12	0.13	25,25,24	0.0	0	0.61	0.05	0.95
	0.07	0.06	0.0	25,24,0	1.69e-03	0.18	0.15	25,25,24			1.00	0.07	0.93
3089	0.04	0.03	0.0	25,24,0	2.05e-03	0.12	0.13	24,25,24	0.0	0	0.61	0.05	0.95
	0.07	0.06	0.0	25,24,0	1.56e-03	0.18	0.15	24,25,24			1.00	0.07	0.93

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.07	0.06	0.0	3.27e-03	0.18	0.15	0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
108	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.03	37.4	8	2.64e-03	-38.7	10	2.15e-04	-24.6	313.2	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2628	0.0	3.76e-04	0.0	0,24,0	1.41e-05	2.60e-03	2.94e-03	24,25,24	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	26,23,0	1.09e-05	0.04	0.01	24,26,23			1.00	0.07	0.93
2644	2.73e-04	5.64e-04	0.0	25,24,0	1.90e-04	2.60e-03	2.94e-03	26,25,24	0.0	0	0.44	0.07	0.93
	0.02	0.01	0.0	26,23,0	8.65e-05	0.04	0.01	26,26,23			1.00	0.07	0.93
2661	7.12e-04	8.63e-04	0.0	25,24,0	5.97e-04	2.43e-03	3.04e-03	26,25,24	0.0	0	0.44	0.07	0.93
	0.02	0.01	0.0	26,23,0	2.71e-04	0.04	6.45e-03	26,26,23			1.00	0.07	0.93
2785	1.15e-03	1.17e-03	0.0	25,24,0	1.27e-03	2.76e-03	3.47e-03	24,25,24	0.0	0	0.44	0.07	0.93
	9.90e-03	7.88e-03	0.0	26,23,0	5.74e-04	0.02	4.32e-03	24,26,23			1.00	0.07	0.93
2794	1.63e-03	1.49e-03	0.0	25,24,0	2.25e-03	3.43e-03	4.27e-03	24,25,24	0.0	0	0.44	0.07	0.93
	4.35e-03	4.45e-03	0.0	25,24,0	1.02e-03	0.01	4.60e-03	24,26,24			1.00	0.07	0.93
2802	2.31e-03	1.91e-03	0.0	26,23,0	3.59e-03	6.52e-03	7.48e-03	24,26,23	0.0	0	0.44	0.07	0.93
	0.01	0.01	0.0	25,24,0	1.63e-03	0.03	5.53e-03	24,25,24			1.00	0.07	0.93
2808	2.75e-03	2.20e-03	0.0	26,23,0	5.76e-03	0.02	0.02	24,26,23	0.0	0	0.44	0.07	0.93
	0.01	0.01	0.0	25,24,0	2.62e-03	0.03	5.53e-03	24,25,24			1.00	0.07	0.93
2887	2.75e-03	2.20e-03	0.0	26,23,0	5.76e-03	0.02	0.02	24,26,23	0.0	0	0.44	0.07	0.93
	8.10e-03	6.95e-03	0.0	25,24,0	2.62e-03	0.02	3.41e-03	24,25,24			1.00	0.07	0.93
3002	2.75e-03	2.20e-03	0.0	26,23,0	5.76e-03	0.02	0.02	24,26,23	0.0	0	0.44	0.07	0.93
	8.10e-03	6.95e-03	0.0	25,24,0	2.62e-03	0.02	3.41e-03	24,25,24			1.00	0.07	0.93
3004	2.75e-03	2.20e-03	0.0	26,23,0	5.76e-03	0.02	0.02	24,26,23	0.0	0	0.44	0.07	0.93
	0.01	0.01	0.0	25,24,0	2.62e-03	0.03	5.53e-03	24,25,24			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



3006	2.31e-03	1.91e-03	0.0	26,23,0	3.59e-03	6.52e-03	7.48e-03	24,26,23	0.0	0	0.44	0.07	0.93
	0.01	0.01	0.0	25,24,0	1.63e-03	0.03	5.53e-03	24,25,24			1.00	0.07	0.93
3008	1.63e-03	1.49e-03	0.0	25,24,0	2.25e-03	3.43e-03	4.27e-03	24,25,24	0.0	0	0.44	0.07	0.93
	4.35e-03	4.45e-03	0.0	25,24,0	1.02e-03	0.01	4.60e-03	24,26,24			1.00	0.07	0.93
3010	1.15e-03	1.17e-03	0.0	25,24,0	1.27e-03	2.76e-03	3.47e-03	24,25,24	0.0	0	0.44	0.07	0.93
	9.90e-03	7.88e-03	0.0	26,23,0	5.74e-04	0.02	4.32e-03	24,26,23			1.00	0.07	0.93
3012	7.12e-04	8.63e-04	0.0	25,24,0	5.97e-04	2.43e-03	3.04e-03	26,25,24	0.0	0	0.44	0.07	0.93
	0.02	0.01	0.0	26,23,0	2.71e-04	0.04	6.45e-03	26,26,23			1.00	0.07	0.93
3014	2.73e-04	5.64e-04	0.0	25,24,0	1.90e-04	2.60e-03	2.94e-03	26,25,24	0.0	0	0.44	0.07	0.93
	0.02	0.01	0.0	26,23,0	8.65e-05	0.04	0.01	26,26,23			1.00	0.07	0.93
3016	0.0	3.76e-04	0.0	0,24,0	1.41e-05	2.60e-03	2.94e-03	24,25,24	0.0	0	0.0	0.0	0.0
	0.02	0.01	0.0	26,23,0	1.09e-05	0.04	0.01	24,26,23			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.01	0.0		5.76e-03	0.04	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
109	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.09	96.8	8	0.03	96.8	8	9.58e-03	-114.6	2684.1	24

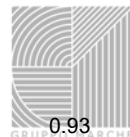
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2885	0.0	1.85e-03	0.0	0,18,0	1.43e-05	2.46e-04	9.75e-04	8,46,2	0.0	0	0.0	0.0	0.0
	2.70e-03	2.82e-03	0.0	10,23,0	1.41e-05	5.98e-03	3.81e-03	8,46,45			1.00	0.07	0.93
2886	0.0	1.85e-03	0.0	0,18,0	1.43e-05	2.46e-04	9.75e-04	8,46,2	0.0	0	0.0	0.0	0.0
	2.70e-03	2.82e-03	0.0	10,23,0	1.41e-05	5.98e-03	3.81e-03	8,46,45			1.00	0.07	0.93
2887	9.10e-04	4.04e-04	0.0	18,45,0	1.71e-05	3.64e-03	2.76e-03	18,44,43	0.0	0	0.21	0.13	0.87
	8.38e-03	8.67e-03	0.0	12,25,0	1.69e-05	0.01	7.91e-03	18,44,45			1.00	0.07	0.93
3000	0.0	1.85e-03	0.0	0,18,0	1.43e-05	2.46e-04	9.75e-04	8,46,2	0.0	0	0.0	0.0	0.0
	2.70e-03	2.82e-03	0.0	10,23,0	1.41e-05	5.98e-03	3.81e-03	8,46,45			1.00	0.07	0.93
3001	9.10e-04	1.85e-03	0.0	18,18,0	1.71e-05	3.64e-03	2.76e-03	18,44,43	0.0	0	0.21	0.13	0.87
	8.38e-03	8.67e-03	0.0	12,25,0	1.69e-05	0.01	7.91e-03	18,44,45			1.00	0.07	0.93
3002	9.10e-04	4.04e-04	0.0	18,45,0	1.71e-05	3.64e-03	2.76e-03	18,44,43	0.0	0	0.21	0.13	0.87
	8.38e-03	8.67e-03	0.0	12,25,0	1.69e-05	0.01	7.91e-03	18,44,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	8.38e-03	8.67e-03	0.0		1.71e-05	0.01	7.91e-03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
110	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.0	-9.67e-06	14	0.0	-9.90e-06	11	0.02	-4.11e-06	-4881.9	12

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2664	1.33e-03	1.20e-03	0.0	13,24,0	1.83e-05	1.59e-03	2.30e-03	12,13,34	0.0	0	0.37	0.08	0.92
	2.57e-03	2.39e-04	0.0	12,25,0	1.81e-05	3.28e-03	6.24e-04	12,12,2			1.00	0.07	0.93
2665	1.33e-03	1.20e-03	0.0	13,24,0	1.83e-05	1.59e-03	2.30e-03	12,13,34	0.0	0	0.37	0.08	0.92
	2.57e-03	2.39e-04	0.0	12,25,0	1.81e-05	3.28e-03	6.24e-04	12,12,2			1.00	0.07	0.93
2666	9.97e-04	1.38e-03	0.0	24,11,0	1.05e-05	4.25e-03	4.72e-03	13,34,34	0.0	0	0.37	0.08	0.92
	9.72e-03	6.65e-03	0.0	34,35,0	1.18e-05	0.02	0.02	34,34,34			1.00	0.07	0.93
2987	1.33e-03	1.38e-03	0.0	13,11,0	1.83e-05	4.25e-03	4.72e-03	12,34,34	0.0	0	0.37	0.08	0.92
	9.72e-03	6.65e-03	0.0	34,35,0	1.81e-05	0.02	0.02	12,34,34			1.00	0.07	0.93
2988	9.97e-04	1.38e-03	0.0	24,11,0	1.05e-05	4.25e-03	4.72e-03	13,34,34	0.0	0	0.37	0.08	0.92

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	9.72e-03	6.65e-03	0.0	34,35,0	1.18e-05	0.02	0.02	34,34,34	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26		
	9.72e-03	6.65e-03	0.0		1.83e-05	0.02	0.02		0.0		

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
111	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.14	-161.0	2	0.01	-109.1	34	1.33e-03	108.4	-1199.8	8

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2367	9.19e-04	2.72e-04	0.0	28,45,0	1.36e-05	1.67e-03	8.38e-04	28,34,35	0.0	0	0.61	0.05	0.95
	2.39e-03	0.0	0.0	2,0,0	1.29e-05	5.64e-03	4.13e-03	28,34,36			1.00	0.07	0.93
2469	9.19e-04	3.90e-04	0.0	28,34,0	1.85e-05	1.67e-03	8.38e-04	28,34,35	0.0	0	0.61	0.05	0.95
	4.07e-03	5.06e-04	0.0	28,35,0	1.71e-05	6.10e-03	4.13e-03	28,34,36			1.00	0.07	0.93
2487	0.0	6.60e-04	0.0	0,2,0	1.85e-05	1.88e-04	5.10e-04	28,34,34	0.0	0	0.0	0.0	0.0
	6.45e-03	5.85e-04	0.0	28,35,0	1.71e-05	0.01	7.81e-04	28,34,34			1.00	0.07	0.93
2557	0.0	1.21e-03	0.0	0,2,0	1.32e-05	6.45e-04	1.19e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	2.44e-03	0.0	34,35,0	1.25e-05	0.02	1.63e-03	28,34,35			1.00	0.07	0.93
2574	0.0	1.21e-03	0.0	0,2,0	8.15e-05	3.34e-03	3.84e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	6.67e-03	0.0	34,35,0	7.40e-05	0.03	9.49e-03	28,34,35			1.00	0.07	0.93
2590	0.0	7.49e-04	0.0	0,28,0	8.15e-05	3.34e-03	3.84e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	6.67e-03	0.0	34,35,0	7.40e-05	0.03	9.49e-03	28,34,35			1.00	0.07	0.93
2955	9.19e-04	3.90e-04	0.0	28,34,0	1.85e-05	1.67e-03	8.38e-04	28,34,35	0.0	0	0.61	0.05	0.95
	4.07e-03	5.06e-04	0.0	28,35,0	1.71e-05	6.10e-03	4.13e-03	28,34,36			1.00	0.07	0.93
2959	0.0	6.60e-04	0.0	0,2,0	1.85e-05	1.88e-04	5.10e-04	28,34,34	0.0	0	0.0	0.0	0.0
	6.45e-03	5.85e-04	0.0	28,35,0	1.71e-05	0.01	7.81e-04	28,34,34			1.00	0.07	0.93
2963	0.0	1.21e-03	0.0	0,2,0	1.32e-05	6.45e-04	1.19e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	2.44e-03	0.0	34,35,0	1.25e-05	0.02	1.63e-03	28,34,35			1.00	0.07	0.93
2967	0.0	1.21e-03	0.0	0,2,0	8.15e-05	3.34e-03	3.84e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	6.67e-03	0.0	34,35,0	7.40e-05	0.03	9.49e-03	28,34,35			1.00	0.07	0.93
2970	0.0	7.49e-04	0.0	0,28,0	8.15e-05	3.34e-03	3.84e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	6.67e-03	0.0	34,35,0	7.40e-05	0.03	9.49e-03	28,34,35			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	6.67e-03	0.0		8.15e-05	0.03	9.49e-03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
112	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.15	-171.0	2	0.01	-93.5	34	1.61e-03	115.2	-1457.5	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2368	8.09e-04	2.93e-04	0.0	28,35,0	1.47e-05	1.51e-03	8.64e-04	28,34,35	0.0	0	0.61	0.05	0.95
	2.73e-03	0.0	0.0	2,0,0	1.40e-05	6.00e-03	4.34e-03	28,34,34			1.00	0.07	0.93
2468	8.09e-04	3.84e-04	0.0	28,44,0	1.63e-05	1.51e-03	8.64e-04	28,34,35	0.0	0	0.61	0.05	0.95
	4.64e-03	3.14e-04	0.0	28,45,0	1.49e-05	6.91e-03	4.34e-03	28,34,34			1.00	0.07	0.93
2486	0.0	6.37e-04	0.0	0,2,0	1.63e-05	1.81e-04	4.66e-04	28,35,34	0.0	0	0.0	0.0	0.0
	6.77e-03	5.07e-04	0.0	28,45,0	1.49e-05	0.01	7.53e-04	28,34,34			1.00	0.07	0.93
2556	0.0	1.16e-03	0.0	0,2,0	1.17e-05	6.30e-04	1.19e-03	28,35,34	0.0	0	0.0	0.0	0.0
	9.87e-03	2.34e-03	0.0	34,35,0	1.09e-05	0.02	1.57e-03	28,34,35			1.00	0.07	0.93
2572	0.0	1.16e-03	0.0	0,2,0	7.20e-05	3.23e-03	3.74e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	6.51e-03	0.0	34,35,0	6.53e-05	0.03	8.93e-03	28,34,35			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2596	0.0	7.39e-04	0.0	0,28,0	7.20e-05	3.23e-03	3.74e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	6.51e-03	0.0	34,35,0	6.53e-05	0.03	8.93e-03	28,34,35			1.00	0.07	0.93
2954	8.09e-04	3.84e-04	0.0	28,44,0	1.63e-05	1.51e-03	8.64e-04	28,34,35	0.0	0	0.61	0.05	0.95
	4.64e-03	3.14e-04	0.0	28,45,0	1.49e-05	6.91e-03	4.34e-03	28,34,34			1.00	0.07	0.93
2958	0.0	6.37e-04	0.0	0,2,0	1.63e-05	1.81e-04	4.66e-04	28,35,34	0.0	0	0.0	0.0	0.0
	6.77e-03	5.07e-04	0.0	28,45,0	1.49e-05	0.01	7.53e-04	28,34,34			1.00	0.07	0.93
2962	0.0	1.16e-03	0.0	0,2,0	1.17e-05	6.30e-04	1.19e-03	28,35,34	0.0	0	0.0	0.0	0.0
	9.87e-03	2.34e-03	0.0	34,35,0	1.09e-05	0.02	1.57e-03	28,34,35			1.00	0.07	0.93
2966	0.0	1.16e-03	0.0	0,2,0	7.20e-05	3.23e-03	3.74e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	6.51e-03	0.0	34,35,0	6.53e-05	0.03	8.93e-03	28,34,35			1.00	0.07	0.93
2976	0.0	7.39e-04	0.0	0,28,0	7.20e-05	3.23e-03	3.74e-03	28,35,34	0.0	0	0.0	0.0	0.0
	0.01	6.51e-03	0.0	34,35,0	6.53e-05	0.03	8.93e-03	28,34,35			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	6.51e-03	0.0		7.20e-05	0.03	8.93e-03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
113	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		daN			daN			daN	daN cm	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2590	6.32e-04	2.03e-03	0.0	35,28,0	2.31e-04	2.97e-03	4.37e-03	34,35,34	0.0	0	0.50	0.06	0.94
	2.29e-03	2.28e-03	0.0	34,35,0	1.31e-04	5.89e-03	4.06e-03	34,34,34			1.00	0.07	0.93
2591	8.81e-03	9.29e-03	0.0	35,34,0	2.31e-04	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	2.29e-03	2.28e-03	0.0	34,35,0	1.31e-04	5.89e-03	4.06e-03	34,34,34			1.00	0.07	0.93
2592	0.01	0.01	0.0	35,34,0	1.63e-04	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	1.42e-03	1.28e-03	0.0	34,33,0	9.03e-05	4.21e-03	3.52e-03	34,34,35			1.00	0.07	0.93
2593	0.01	0.01	0.0	35,34,0	3.27e-05	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	1.42e-03	9.58e-04	0.0	34,35,0	1.31e-05	4.21e-03	3.52e-03	34,34,35			1.00	0.07	0.93
2594	0.01	0.01	0.0	35,34,0	1.63e-04	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	1.43e-03	1.28e-03	0.0	36,33,0	9.02e-05	4.21e-03	3.52e-03	34,34,35			1.00	0.07	0.93
2595	8.81e-03	9.35e-03	0.0	35,34,0	2.34e-04	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	2.26e-03	2.30e-03	0.0	36,33,0	1.33e-04	5.85e-03	4.03e-03	34,36,34			1.00	0.07	0.93
2596	5.92e-04	2.05e-03	0.0	35,28,0	2.34e-04	2.94e-03	4.37e-03	34,35,34	0.0	0	0.50	0.06	0.94
	2.26e-03	2.30e-03	0.0	36,33,0	1.33e-04	5.85e-03	4.03e-03	34,36,34			1.00	0.07	0.93
2970	6.32e-04	2.03e-03	0.0	35,28,0	2.31e-04	2.97e-03	4.37e-03	34,35,34	0.0	0	0.50	0.06	0.94
	2.29e-03	2.28e-03	0.0	34,35,0	1.31e-04	5.89e-03	4.06e-03	34,34,34			1.00	0.07	0.93
2971	8.81e-03	9.29e-03	0.0	35,34,0	2.31e-04	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	2.29e-03	2.28e-03	0.0	34,35,0	1.31e-04	5.89e-03	4.06e-03	34,34,34			1.00	0.07	0.93
2972	0.01	0.01	0.0	35,34,0	1.63e-04	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	1.42e-03	1.28e-03	0.0	34,33,0	9.03e-05	4.21e-03	3.52e-03	34,34,35			1.00	0.07	0.93
2973	0.01	0.01	0.0	35,34,0	3.27e-05	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	1.42e-03	9.58e-04	0.0	34,35,0	1.31e-05	4.21e-03	3.52e-03	34,34,35			1.00	0.07	0.93
2974	0.01	0.01	0.0	35,34,0	1.63e-04	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	1.43e-03	1.28e-03	0.0	36,33,0	9.02e-05	4.21e-03	3.52e-03	34,34,35			1.00	0.07	0.93
2975	8.81e-03	9.35e-03	0.0	35,34,0	2.34e-04	0.01	0.02	34,35,34	0.0	0	0.50	0.06	0.94
	2.26e-03	2.30e-03	0.0	36,33,0	1.33e-04	5.85e-03	4.03e-03	34,36,34			1.00	0.07	0.93
2976	5.92e-04	2.05e-03	0.0	35,28,0	2.34e-04	2.94e-03	4.37e-03	34,35,34	0.0	0	0.50	0.06	0.94
	2.26e-03	2.30e-03	0.0	36,33,0	1.33e-04	5.85e-03	4.03e-03	34,36,34			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	0.01	0.0		2.34e-04	0.01	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
114	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
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Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



ok 0.02 daN -146.7 12 0.03 daN -357.2 11 0.06 daN -379.4 daN cm -8.888e+04 2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2210	0.02	0.02	0.0	45,44,0	0.01	0.03	0.04	43,45,44	0.0	0	0.23	0.12	0.88
	0.02	0.02	0.0	45,44,0	3.76e-03	0.05	0.02	43,45,44			1.00	0.07	0.93
2211	0.04	0.03	0.0	43,46,0	0.01	0.05	0.04	43,43,44	0.0	0	0.23	0.12	0.88
	0.02	0.02	0.0	45,44,0	3.76e-03	0.05	0.02	43,45,44			1.00	0.07	0.93
2212	0.05	0.03	0.0	43,46,0	6.99e-03	0.06	8.74e-03	43,43,46	0.0	0	0.23	0.12	0.88
	2.73e-04	1.90e-04	0.0	43,46,0	2.33e-03	0.01	0.01	43,43,46			1.00	0.07	0.93
2213	0.05	0.03	0.0	43,46,0	1.61e-03	0.06	8.26e-03	43,43,46	0.0	0	0.23	0.12	0.88
	2.73e-04	1.90e-04	0.0	43,46,0	5.47e-04	0.01	0.01	43,43,46			1.00	0.07	0.93
2214	0.05	0.03	0.0	43,46,0	3.01e-03	0.06	8.11e-03	44,43,46	0.0	0	0.23	0.12	0.88
	1.94e-04	1.40e-04	0.0	43,46,0	9.88e-04	0.01	0.01	44,43,46			1.00	0.07	0.93
2215	0.05	0.03	0.0	43,46,0	9.91e-03	0.06	9.98e-03	44,43,46	0.0	0	0.23	0.12	0.88
	3.16e-04	4.09e-04	0.0	45,44,0	3.26e-03	0.01	0.01	44,43,45			1.00	0.07	0.93
2216	0.04	0.03	0.0	43,46,0	0.02	0.05	0.04	44,43,44	0.0	0	0.23	0.12	0.88
	0.01	0.01	0.0	45,44,0	5.75e-03	0.03	8.56e-03	44,45,45			1.00	0.07	0.93
2217	0.02	0.02	0.0	45,44,0	0.02	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	0.01	0.01	0.0	45,44,0	5.75e-03	0.07	0.07	44,45,44			1.00	0.07	0.93
2218	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	4.76e-03	4.13e-03	0.0	45,44,0	4.85e-03	0.07	0.07	44,45,44			1.00	0.07	0.93
2502	0.02	0.02	0.0	45,44,0	0.01	0.03	0.04	43,45,44	0.0	0	0.23	0.12	0.88
	0.02	0.02	0.0	45,44,0	3.76e-03	0.05	0.02	43,45,44			1.00	0.07	0.93
2503	0.04	0.03	0.0	43,46,0	0.01	0.05	0.04	43,43,44	0.0	0	0.23	0.12	0.88
	0.02	0.02	0.0	45,44,0	3.76e-03	0.05	0.02	43,45,44			1.00	0.07	0.93
2504	0.05	0.03	0.0	43,46,0	6.99e-03	0.06	8.74e-03	43,43,46	0.0	0	0.23	0.12	0.88
	2.73e-04	1.90e-04	0.0	43,46,0	2.33e-03	0.01	0.01	43,43,46			1.00	0.07	0.93
2505	0.05	0.03	0.0	43,46,0	1.61e-03	0.06	8.26e-03	43,43,46	0.0	0	0.23	0.12	0.88
	2.73e-04	1.90e-04	0.0	43,46,0	5.47e-04	0.01	0.01	43,43,46			1.00	0.07	0.93
2506	0.05	0.03	0.0	43,46,0	3.01e-03	0.06	8.11e-03	44,43,46	0.0	0	0.23	0.12	0.88
	1.94e-04	1.40e-04	0.0	43,46,0	9.88e-04	0.01	0.01	44,43,46			1.00	0.07	0.93
2507	0.05	0.03	0.0	43,46,0	9.91e-03	0.06	9.98e-03	44,43,46	0.0	0	0.23	0.12	0.88
	3.16e-04	4.09e-04	0.0	45,44,0	3.26e-03	0.01	0.01	44,43,45			1.00	0.07	0.93
2508	0.04	0.03	0.0	43,46,0	0.02	0.05	0.04	44,43,44	0.0	0	0.23	0.12	0.88
	0.01	0.01	0.0	45,44,0	5.75e-03	0.03	8.56e-03	44,45,45			1.00	0.07	0.93
2509	0.02	0.02	0.0	45,44,0	0.02	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	0.01	0.01	0.0	45,44,0	5.75e-03	0.07	0.07	44,45,44			1.00	0.07	0.93
2510	0.02	0.02	0.0	45,44,0	0.01	0.03	0.05	44,45,44	0.0	0	0.23	0.12	0.88
	4.76e-03	4.13e-03	0.0	45,44,0	4.85e-03	0.07	0.07	44,45,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.05	0.03	0.0		0.02	0.07	0.07		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
115	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
ok	0.05	325.1	12	8.71e-03	-98.8	23	0.07	-2396.9	1.161e+05	8

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
12	0.03	0.03	0.0	35,44,0	1.14e-03	0.03	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	0.19	0.14	0.0	34,35,0	7.74e-04	0.44	0.07	35,34,35			1.00	0.07	0.93
13	0.03	0.03	0.0	35,44,0	1.14e-03	0.03	0.03	35,35,34	0.0	0	0.94	0.03	0.97
	0.19	0.14	0.0	34,35,0	7.74e-04	0.44	0.07	35,34,35			1.00	0.07	0.93
14	9.28e-04	0.02	0.0	35,38,0	2.24e-04	0.02	0.03	34,36,34	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	34,35,0	1.73e-04	0.18	0.07	34,34,36			1.00	0.07	0.93
15	9.28e-04	3.42e-03	0.0	35,34,0	2.24e-04	4.72e-03	6.06e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,33,0	1.42e-04	0.06	0.01	34,36,33			1.00	0.07	0.93
16	9.82e-03	0.01	0.0	36,33,0	1.02e-04	0.03	0.02	34,36,33	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,33,0	6.75e-05	0.06	0.02	34,36,33			1.00	0.07	0.93
17	9.82e-03	0.01	0.0	36,34,0	1.34e-04	0.03	0.02	34,36,33	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	34,35,0	8.31e-05	0.04	0.02	34,34,33			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



18	7.40e-03	0.01	0.0	35,44,0	1.34e-04	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	9.66e-03	7.39e-03	0.0	33,34,0	8.31e-05	0.02	0.02	34,33,34			1.00	0.07	0.93
19	1.08e-03	0.01	0.0	35,44,0	1.06e-04	3.73e-03	6.72e-03	34,35,34	0.0	0	0.94	0.03	0.97
	9.66e-03	7.39e-03	0.0	33,34,0	7.74e-05	0.02	0.02	34,33,34			1.00	0.07	0.93
481	0.03	0.03	0.0	35,44,0	1.14e-03	0.03	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	0.19	0.14	0.0	34,35,0	7.74e-04	0.44	0.07	35,34,35			1.00	0.07	0.93
482	0.03	0.03	0.0	35,44,0	1.14e-03	0.03	0.03	35,35,34	0.0	0	0.94	0.03	0.97
	0.19	0.14	0.0	34,35,0	7.74e-04	0.44	0.07	35,34,35			1.00	0.07	0.93
483	9.28e-04	0.02	0.0	35,38,0	2.24e-04	0.02	0.03	34,36,34	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	34,35,0	1.73e-04	0.18	0.07	34,34,36			1.00	0.07	0.93
484	9.28e-04	3.42e-03	0.0	35,34,0	2.24e-04	4.72e-03	6.06e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,33,0	1.42e-04	0.06	0.01	34,36,33			1.00	0.07	0.93
485	0.04	0.03	0.0	36,33,0	1.02e-04	0.03	0.02	34,36,33	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,33,0	6.75e-05	0.06	0.02	34,36,33			1.00	0.07	0.93
486	0.04	0.03	0.0	36,33,0	1.34e-04	0.03	0.02	34,36,33	0.0	0	0.94	0.03	0.97
	0.02	0.01	0.0	34,35,0	8.31e-05	0.04	0.02	34,34,33			1.00	0.07	0.93
487	0.02	0.02	0.0	35,34,0	1.34e-04	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	33,36,0	8.31e-05	0.03	0.02	34,33,34			1.00	0.07	0.93
488	6.64e-03	0.01	0.0	35,44,0	1.06e-04	6.13e-03	7.06e-03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	33,36,0	7.74e-05	0.03	0.02	34,33,34			1.00	0.07	0.93
843	0.0	0.03	0.0	0,28,0	4.30e-04	0.02	0.03	34,35,34	0.0	0	0.0	0.0	0.0
	0.04	0.04	0.0	35,34,0	3.03e-04	0.11	0.03	34,35,34			1.00	0.07	0.93
844	3.33e-03	0.03	0.0	35,28,0	4.30e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.04	0.04	0.0	35,34,0	3.03e-04	0.11	0.03	34,35,34			1.00	0.07	0.93
845	3.33e-03	0.02	0.0	35,38,0	1.95e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.04	0.03	0.0	35,34,0	1.24e-04	0.09	0.01	34,35,34			1.00	0.07	0.93
846	0.04	0.03	0.0	35,34,0	9.43e-05	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	7.84e-03	5.88e-03	0.0	36,33,0	5.18e-05	0.02	0.01	34,35,35			1.00	0.07	0.93
847	0.04	0.03	0.0	35,34,0	9.43e-05	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	36,35,0	5.18e-05	0.03	0.01	34,36,35			1.00	0.07	0.93
848	0.02	0.02	0.0	35,34,0	6.09e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	3.85e-05	0.06	0.01	34,34,35			1.00	0.07	0.93
849	6.64e-03	0.01	0.0	35,44,0	4.63e-05	9.02e-03	0.01	36,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	3.18e-05	0.06	0.01	36,34,35			1.00	0.07	0.93
1252	8.40e-03	0.03	0.0	35,28,0	6.03e-04	0.02	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.18	0.14	0.0	35,33,0	5.78e-04	0.42	0.08	34,35,35			1.00	0.07	0.93
1253	0.01	0.03	0.0	35,28,0	6.03e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.18	0.14	0.0	35,33,0	5.78e-04	0.42	0.08	34,35,35			1.00	0.07	0.93
1254	0.01	0.02	0.0	35,34,0	1.95e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	36,33,0	1.56e-04	0.19	0.06	33,35,33			1.00	0.07	0.93
1257	0.04	0.03	0.0	35,34,0	1.36e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	7.84e-03	5.88e-03	0.0	36,33,0	7.82e-05	0.02	0.01	34,35,35			1.00	0.07	0.93
1258	0.04	0.03	0.0	35,34,0	1.36e-04	0.04	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	36,35,0	7.82e-05	0.03	0.01	34,36,35			1.00	0.07	0.93
1259	0.02	0.02	0.0	35,34,0	6.93e-05	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	4.51e-05	0.07	0.02	34,34,35			1.00	0.07	0.93
1260	5.57e-03	9.64e-03	0.0	35,34,0	3.78e-05	9.02e-03	0.01	35,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	3.12e-05	0.07	0.02	35,34,35			1.00	0.07	0.93
1736	8.40e-03	0.03	0.0	35,34,0	1.07e-03	0.06	0.07	33,35,34	0.0	0	0.94	0.03	0.97
	0.18	0.14	0.0	35,33,0	6.29e-04	0.42	0.08	33,35,35			1.00	0.07	0.93
1737	0.01	0.03	0.0	35,34,0	1.07e-03	0.06	0.07	33,35,34	0.0	0	0.94	0.03	0.97
	0.18	0.14	0.0	35,33,0	6.29e-04	0.42	0.08	33,35,35			1.00	0.07	0.93
1738	0.01	0.02	0.0	35,34,0	2.36e-04	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.08	0.06	0.0	36,33,0	1.56e-04	0.19	0.06	33,35,33			1.00	0.07	0.93
1739	0.02	0.01	0.0	35,34,0	1.59e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	36,33,0	8.66e-05	0.03	8.47e-03	34,36,33			1.00	0.07	0.93
1740	0.05	0.04	0.0	35,34,0	1.59e-04	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	8.66e-05	0.04	0.01	34,35,34			1.00	0.07	0.93
1741	0.05	0.04	0.0	35,34,0	1.36e-04	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	7.82e-05	0.04	0.01	34,35,33			1.00	0.07	0.93
1742	0.02	0.02	0.0	35,34,0	6.93e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	4.51e-05	0.07	0.02	34,34,35			1.00	0.07	0.93
1743	0.01	0.01	0.0	35,34,0	3.78e-05	0.02	0.02	35,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	3.12e-05	0.07	0.02	35,34,35			1.00	0.07	0.93
2347	0.0	0.02	0.0	0,28,0	1.07e-03	0.06	0.07	33,35,34	0.0	0	0.0	0.0	0.0
	0.03	0.02	0.0	34,35,0	6.29e-04	0.08	0.02	33,34,35			1.00	0.07	0.93
2348	5.07e-03	0.02	0.0	35,28,0	1.07e-03	0.06	0.07	33,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	34,35,0	6.29e-04	0.08	0.02	33,34,35			1.00	0.07	0.93
2349	5.07e-03	0.01	0.0	35,34,0	2.36e-04	0.02	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	0.03	0.02	0.0	36,33,0	1.45e-04	0.07	0.01	34,36,33			1.00	0.07	0.93
2350	0.02	0.01	0.0	35,34,0	1.59e-04	0.03	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.01	0.01	0.0	36,33,0	8.66e-05	0.03	8.47e-03	34,36,33			1.00	0.07	0.93
2351	0.05	0.04	0.0	35,34,0	1.59e-04	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97
	0.02	0.02	0.0	35,34,0	8.66e-05	0.04	0.01	34,35,34			1.00	0.07	0.93
2352	0.05	0.04	0.0	35,34,0	3.55e-05	0.05	0.03	34,35,34	0.0	0	0.94	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	0.02	0.02	0.0	35,34,0	1.24e-05	0.04	0.01	34,35,34			1.00	0.07	0.93
2353	0.02	0.02	0.0	35,34,0	3.55e-05	0.03	0.02	34,35,34	0.0	0	0.94	0.03	0.97
	5.79e-03	4.20e-03	0.0	35,35,0	2.46e-05	0.01	3.48e-03	44,35,35			1.00	0.07	0.93
2354	0.01	0.01	0.0	35,34,0	2.95e-05	0.02	0.02	44,35,34	0.0	0	0.94	0.03	0.97
	5.79e-03	4.20e-03	0.0	35,35,0	2.46e-05	0.01	3.48e-03	44,35,35			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.19	0.14	0.0		1.14e-03	0.44	0.08		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
116	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.09	1191.9	44	0.12	241.4	44	0.07	-4560.1	1.264e+05	44

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
317	0.0	0.02	0.0	0,2,0	6.43e-05	7.52e-06	8.50e-03	44,2,2	0.0	0	0.0	0.0	0.0
	5.22e-05	1.07e-04	0.0	43,8,0	6.41e-05	7.39e-05	3.71e-05	44,43,8			1.00	0.07	0.93
325	0.0	0.02	0.0	0,2,0	6.52e-05	3.37e-05	8.50e-03	44,2,2	0.0	0	0.0	0.0	0.0
	5.22e-05	1.52e-04	0.0	43,8,0	6.50e-05	7.39e-05	8.16e-05	44,43,2			1.00	0.07	0.93
333	0.0	0.02	0.0	0,2,0	6.60e-05	7.35e-05	8.91e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.58e-05	1.54e-04	0.0	45,8,0	6.58e-05	8.71e-05	1.28e-04	44,2,2			1.00	0.07	0.93
341	0.0	0.03	0.0	0,2,0	6.86e-05	7.60e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	3.31e-04	5.46e-04	0.0	35,38,0	6.84e-05	5.18e-04	3.24e-04	44,34,2			1.00	0.07	0.93
349	0.0	0.03	0.0	0,2,0	6.86e-05	7.60e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	3.31e-04	1.93e-03	0.0	35,2,0	6.84e-05	6.75e-04	1.15e-03	44,18,18			1.00	0.07	0.93
364	0.0	0.01	0.0	0,2,0	3.07e-05	4.92e-05	3.86e-03	44,18,2	0.0	0	0.0	0.0	0.0
	0.0	1.93e-03	0.0	0,2,0	3.05e-05	6.75e-04	1.15e-03	44,18,18			0.0	0.0	0.0
452	0.0	0.02	0.0	0,2,0	6.43e-05	1.15e-05	8.50e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.51e-04	2.04e-04	0.0	43,8,0	6.41e-05	3.35e-04	8.58e-05	44,2,8			1.00	0.07	0.93
454	0.0	0.02	0.0	0,2,0	6.53e-05	3.37e-05	8.50e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.51e-04	3.48e-04	0.0	43,8,0	6.51e-05	3.35e-04	1.36e-04	44,2,8			1.00	0.07	0.93
456	0.0	0.02	0.0	0,2,0	6.71e-05	7.35e-05	8.91e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.44e-04	3.48e-04	0.0	43,8,0	6.68e-05	3.16e-04	1.85e-04	44,2,2			1.00	0.07	0.93
458	0.0	0.03	0.0	0,2,0	7.25e-05	7.60e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	4.93e-04	5.46e-04	0.0	18,38,0	7.22e-05	9.75e-04	3.24e-04	44,18,2			1.00	0.07	0.93
460	0.0	0.03	0.0	0,2,0	7.25e-05	1.19e-04	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	4.93e-04	1.93e-03	0.0	18,2,0	7.22e-05	9.75e-04	1.15e-03	44,18,18			1.00	0.07	0.93
464	0.0	0.02	0.0	0,2,0	4.11e-05	1.19e-04	6.39e-03	44,2,2	0.0	0	0.0	0.0	0.0
	5.01e-05	1.93e-03	0.0	45,2,0	4.09e-05	6.75e-04	1.15e-03	44,18,18			1.00	0.07	0.93
1136	0.0	0.02	0.0	0,2,0	6.25e-05	1.15e-05	8.30e-03	44,2,2	0.0	0	0.0	0.0	0.0
	2.42e-04	2.41e-04	0.0	28,38,0	6.24e-05	5.38e-04	1.03e-04	44,28,38			1.00	0.07	0.93
1144	0.0	0.02	0.0	0,2,0	6.53e-05	3.56e-05	8.30e-03	44,18,2	0.0	0	0.0	0.0	0.0
	2.42e-04	4.90e-04	0.0	28,38,0	6.51e-05	6.84e-04	2.06e-04	44,2,2			1.00	0.07	0.93
1152	0.0	0.02	0.0	0,2,0	6.76e-05	5.31e-05	8.69e-03	44,2,2	0.0	0	0.0	0.0	0.0
	3.86e-04	6.07e-04	0.0	2,2,0	6.74e-05	1.13e-03	2.67e-04	44,2,2			1.00	0.07	0.93
1160	0.0	0.03	0.0	0,2,0	7.25e-05	1.38e-04	9.47e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.93e-04	6.07e-04	0.0	18,2,0	7.22e-05	1.13e-03	4.10e-04	44,2,2			1.00	0.07	0.93
1168	0.0	0.03	0.0	0,2,0	7.25e-05	2.02e-04	9.47e-03	44,18,2	0.0	0	0.0	0.0	0.0
	4.93e-04	1.10e-03	0.0	18,2,0	7.22e-05	9.75e-04	5.74e-04	44,18,18			1.00	0.07	0.93
1183	0.0	0.02	0.0	0,2,0	4.11e-05	2.02e-04	8.13e-03	44,18,2	0.0	0	0.0	0.0	0.0
	5.01e-05	1.10e-03	0.0	45,2,0	4.09e-05	3.35e-04	5.74e-04	44,18,18			1.00	0.07	0.93
1572	0.0	0.02	0.0	0,2,0	5.80e-05	1.03e-05	7.93e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.31e-04	6.07e-04	0.0	33,44,0	5.79e-05	5.95e-04	1.85e-04	44,34,44			1.00	0.07	0.93
1579	0.0	0.02	0.0	0,2,0	6.54e-05	3.56e-05	7.93e-03	44,18,2	0.0	0	0.0	0.0	0.0
	4.31e-04	7.88e-04	0.0	33,38,0	6.53e-05	6.84e-04	2.69e-04	44,2,38			1.00	0.07	0.93
1584	0.0	0.02	0.0	0,2,0	7.22e-05	7.45e-05	8.38e-03	44,2,2	0.0	0	0.0	0.0	0.0
	3.91e-04	1.11e-03	0.0	35,2,0	7.19e-05	1.13e-03	4.67e-04	44,2,2			1.00	0.07	0.93
1587	0.0	0.02	0.0	0,2,0	7.22e-05	1.50e-04	9.01e-03	44,2,2	0.0	0	0.0	0.0	0.0
	7.59e-04	1.96e-03	0.0	28,2,0	7.19e-05	2.64e-03	8.40e-04	44,28,2			1.00	0.07	0.93
1591	0.0	0.02	0.0	0,2,0	6.61e-05	5.65e-04	9.68e-03	44,2,2	0.0	0	0.0	0.0	0.0
	8.68e-04	2.45e-03	0.0	44,2,0	6.57e-05	2.64e-03	1.97e-03	44,28,2			1.00	0.07	0.93
1639	0.0	0.02	0.0	0,2,0	3.00e-05	5.65e-04	9.68e-03	44,2,2	0.0	0	0.0	0.0	0.0
	8.68e-04	2.45e-03	0.0	44,2,0	2.96e-05	2.54e-03	1.97e-03	44,38,2			1.00	0.07	0.93
2170	0.0	0.02	0.0	0,2,0	5.37e-05	1.74e-05	7.52e-03	44,18,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2178	1.22e-03	1.52e-03	0.0	36,43,0	5.36e-05	1.48e-03	4.37e-04	44,34,43	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	6.71e-05	2.67e-05	7.52e-03	44,18,2	0.0	0	0.0	0.0	0.0
2186	1.22e-03	1.52e-03	0.0	36,43,0	6.70e-05	1.48e-03	4.37e-04	44,34,43	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	7.84e-05	7.45e-05	7.98e-03	44,2,2	0.0	0	0.0	0.0	0.0
2194	9.60e-04	1.65e-03	0.0	36,44,0	7.81e-05	1.20e-03	4.95e-04	44,34,44	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	8.32e-05	1.50e-04	8.82e-03	44,2,2	0.0	0	0.0	0.0	0.0
2202	9.87e-04	2.89e-03	0.0	35,38,0	8.22e-05	2.64e-03	9.93e-04	44,28,38	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	8.32e-05	7.31e-04	9.68e-03	44,2,2	0.0	0	0.0	0.0	0.0
2229	9.87e-04	2.89e-03	0.0	35,38,0	8.22e-05	2.96e-03	3.63e-03	44,2,2	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	5.36e-05	7.31e-04	9.68e-03	44,2,2	0.0	0	0.0	0.0	0.0
2521	8.68e-04	2.80e-03	0.0	44,38,0	5.10e-05	2.96e-03	3.63e-03	44,2,2	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	5.36e-05	7.31e-04	8.29e-03	44,2,2	0.0	0	0.0	0.0	0.0
2566	4.35e-04	2.80e-03	0.0	35,38,0	5.10e-05	2.96e-03	3.63e-03	44,2,2	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	8.32e-05	7.31e-04	8.29e-03	44,2,2	0.0	0	0.0	0.0	0.0
2584	9.87e-04	2.89e-03	0.0	35,38,0	8.22e-05	2.96e-03	3.63e-03	44,2,2	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	8.32e-05	1.38e-04	8.27e-03	44,2,2	0.0	0	0.0	0.0	0.0
2607	9.87e-04	2.89e-03	0.0	35,38,0	8.22e-05	1.52e-03	9.93e-04	44,33,38	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	7.84e-05	7.08e-05	7.68e-03	44,18,2	0.0	0	0.0	0.0	0.0
2626	9.60e-04	1.65e-03	0.0	36,44,0	7.81e-05	1.20e-03	4.95e-04	44,34,44	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	6.71e-05	2.67e-05	7.19e-03	44,18,2	0.0	0	0.0	0.0	0.0
2642	1.22e-03	1.52e-03	0.0	36,43,0	6.70e-05	1.48e-03	4.37e-04	44,34,43	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	4.92e-05	1.74e-05	7.19e-03	44,18,2	0.0	0	0.0	0.0	0.0
	1.22e-03	1.52e-03	0.0	36,43,0	4.91e-05	1.48e-03	4.37e-04	44,34,43	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.22e-03	0.03	0.0		8.32e-05	2.96e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
117	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.08	951.0	44	0.07	154.7	44	0.05	-1.034e+04	1.847e+05	2

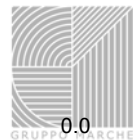
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
322	0.0	0.04	0.0	0,2,0	3.53e-05	2.24e-06	0.01	45,18,2	0.0	0	0.0	0.0	0.0
	4.20e-04	4.90e-04	0.0	45,28,0	3.53e-05	4.95e-04	1.44e-04	45,45,28	0.0	0	1.00	0.07	0.93
331	0.0	0.04	0.0	0,2,0	3.53e-05	2.24e-06	0.01	45,18,2	0.0	0	0.0	0.0	0.0
	4.20e-04	4.90e-04	0.0	45,28,0	3.53e-05	4.95e-04	1.44e-04	45,45,28	0.0	0	1.00	0.07	0.93
337	0.0	0.04	0.0	0,38,0	4.73e-05	9.47e-05	0.01	44,2,38	0.0	0	0.0	0.0	0.0
	1.86e-04	5.35e-04	0.0	35,44,0	4.67e-05	2.38e-04	2.05e-04	44,35,38	0.0	0	1.00	0.07	0.93
346	0.0	0.04	0.0	0,38,0	7.03e-05	1.08e-04	0.01	44,12,38	0.0	0	0.0	0.0	0.0
	1.86e-04	5.35e-04	0.0	35,44,0	7.00e-05	2.38e-04	2.85e-04	44,35,2	0.0	0	1.00	0.07	0.93
354	0.0	0.03	0.0	0,2,0	7.24e-05	5.68e-04	0.01	44,18,2	0.0	0	0.0	0.0	0.0
	5.81e-04	4.86e-04	0.0	46,18,0	7.22e-05	9.34e-04	7.68e-04	44,45,18	0.0	0	1.00	0.07	0.93
371	3.09e-03	0.04	0.0	45,28,0	7.24e-05	3.94e-03	0.01	44,45,28	0.0	0	0.95	0.03	0.97
	8.61e-04	2.54e-04	0.0	38,34,0	7.22e-05	1.35e-03	7.68e-04	44,38,18	0.0	0	1.00	0.07	0.93
377	3.09e-03	0.04	0.0	45,28,0	3.58e-05	3.94e-03	0.01	44,45,28	0.0	0	0.95	0.03	0.97
	8.61e-04	2.24e-04	0.0	38,35,0	3.56e-05	1.35e-03	6.21e-04	44,38,18	0.0	0	1.00	0.07	0.93
390	0.0	0.02	0.0	0,38,0	1.11e-04	1.83e-04	6.38e-03	28,18,38	0.0	0	0.0	0.0	0.0
	2.49e-04	1.54e-03	0.0	35,44,0	1.11e-04	2.96e-04	4.37e-04	28,35,43	0.0	0	1.00	0.07	0.93
411	0.0	0.02	0.0	0,38,0	1.11e-04	1.83e-04	6.38e-03	28,18,38	0.0	0	0.0	0.0	0.0
	2.49e-04	1.54e-03	0.0	35,44,0	1.11e-04	2.96e-04	4.37e-04	28,35,43	0.0	0	1.00	0.07	0.93
757	0.0	0.04	0.0	0,2,0	3.73e-05	2.97e-06	0.01	43,18,2	0.0	0	0.0	0.0	0.0
	4.20e-04	8.26e-04	0.0	45,2,0	3.72e-05	4.95e-04	2.37e-04	43,45,2	0.0	0	1.00	0.07	0.93
764	0.0	0.04	0.0	0,2,0	3.73e-05	2.97e-06	0.01	43,18,2	0.0	0	0.0	0.0	0.0
	4.20e-04	8.26e-04	0.0	45,2,0	3.72e-05	4.95e-04	2.37e-04	43,45,2	0.0	0	1.00	0.07	0.93
768	0.0	0.04	0.0	0,38,0	4.73e-05	9.47e-05	0.01	44,2,38	0.0	0	0.0	0.0	0.0
	1.86e-04	5.35e-04	0.0	35,44,0	4.67e-05	2.38e-04	2.05e-04	44,35,38	0.0	0	1.00	0.07	0.93
775	0.0	0.04	0.0	0,38,0	8.64e-05	1.08e-04	0.01	44,12,38	0.0	0	0.0	0.0	0.0
	1.86e-04	7.69e-04	0.0	35,18,0	8.61e-05	3.05e-04	2.85e-04	44,13,2	0.0	0	1.00	0.07	0.93
781	0.0	0.03	0.0	0,2,0	9.78e-05	5.83e-04	0.01	44,18,2	0.0	0	0.0	0.0	0.0
	5.81e-04	7.69e-04	0.0	46,18,0	9.74e-05	9.34e-04	7.68e-04	44,45,18	0.0	0	1.00	0.07	0.93
790	3.09e-03	0.04	0.0	45,2,0	9.78e-05	3.94e-03	0.01	44,45,2	0.0	0	0.95	0.03	0.97
	8.61e-04	5.65e-04	0.0	38,28,0	9.74e-05	1.35e-03	7.68e-04	44,38,18	0.0	0	1.00	0.07	0.93
796	3.09e-03	0.04	0.0	45,2,0	3.58e-05	3.94e-03	0.01	44,45,2	0.0	0	0.95	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



809	8.61e-04	2.24e-04	0.0	38,35,0	3.56e-05	1.35e-03	6.21e-04	44,38,18	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	1.11e-04	1.83e-04	9.10e-03	28,18,2	0.0	0	0.0	0.0	0.0
	2.85e-04	1.54e-03	0.0	34,44,0	1.11e-04	3.40e-04	4.37e-04	28,34,43	1.00	0	1.00	0.07	0.93
830	0.0	0.02	0.0	0,2,0	1.11e-04	1.83e-04	9.10e-03	28,18,2	0.0	0	0.0	0.0	0.0
	2.85e-04	1.54e-03	0.0	34,44,0	1.11e-04	3.40e-04	4.37e-04	28,34,43	1.00	0	1.00	0.07	0.93
1141	0.0	0.04	0.0	0,2,0	1.03e-04	1.23e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.55e-03	0.0	0,38,0	1.03e-04	2.83e-05	1.02e-03	44,2,38	0.0	0	0.0	0.0	0.0
1150	0.0	0.04	0.0	0,2,0	1.03e-04	1.23e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.55e-03	0.0	0,38,0	1.03e-04	2.83e-05	1.02e-03	44,2,38	0.0	0	0.0	0.0	0.0
1156	0.0	0.04	0.0	0,2,0	3.29e-05	4.68e-05	0.01	46,2,2	0.0	0	0.0	0.0	0.0
	1.16e-03	1.81e-03	0.0	45,28,0	3.27e-05	1.43e-03	5.98e-04	46,45,28	1.00	0	1.00	0.07	0.93
1165	0.0	0.04	0.0	0,2,0	8.64e-05	1.36e-04	0.01	44,11,2	0.0	0	0.0	0.0	0.0
	1.16e-03	2.32e-03	0.0	45,28,0	8.61e-05	1.43e-03	7.09e-04	44,45,28	1.00	0	1.00	0.07	0.93
1173	0.0	0.03	0.0	0,2,0	1.05e-04	5.83e-04	0.01	44,18,2	0.0	0	0.0	0.0	0.0
	4.15e-04	2.32e-03	0.0	45,28,0	1.05e-04	5.54e-04	8.21e-04	44,45,2	1.00	0	1.00	0.07	0.93
1190	0.0	0.04	0.0	0,2,0	1.05e-04	9.95e-04	0.02	44,18,2	0.0	0	0.0	0.0	0.0
	2.63e-04	1.80e-03	0.0	45,28,0	1.05e-04	4.53e-04	8.21e-04	44,13,2	1.00	0	1.00	0.07	0.93
1196	0.0	0.04	0.0	0,2,0	5.08e-05	9.95e-04	0.02	38,18,2	0.0	0	0.0	0.0	0.0
	2.63e-04	9.34e-04	0.0	45,2,0	4.99e-05	4.53e-04	3.05e-04	38,13,2	1.00	0	1.00	0.07	0.93
1209	0.0	0.04	0.0	0,2,0	6.25e-05	1.29e-04	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	2.85e-04	2.34e-04	0.0	34,45,0	6.21e-05	3.40e-04	7.66e-05	28,34,45	1.00	0	1.00	0.07	0.93
1230	0.0	0.04	0.0	0,2,0	6.25e-05	1.29e-04	0.01	28,43,2	0.0	0	0.0	0.0	0.0
	2.85e-04	2.34e-04	0.0	34,45,0	6.21e-05	3.40e-04	7.66e-05	28,34,45	1.00	0	1.00	0.07	0.93
1511	0.0	0.03	0.0	0,2,0	1.03e-04	1.23e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.55e-03	0.0	0,38,0	1.03e-04	3.85e-05	1.02e-03	44,2,38	0.0	0	0.0	0.0	0.0
1516	0.0	0.03	0.0	0,2,0	1.03e-04	3.12e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	0.0	3.55e-03	0.0	0,38,0	1.03e-04	4.40e-05	1.02e-03	44,11,38	0.0	0	0.0	0.0	0.0
1518	0.0	0.03	0.0	0,2,0	7.85e-05	3.12e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.16e-03	3.33e-03	0.0	45,28,0	7.85e-05	1.43e-03	9.88e-04	44,45,2	1.00	0	1.00	0.07	0.93
1556	0.0	0.03	0.0	0,2,0	7.90e-05	1.36e-04	0.01	44,11,2	0.0	0	0.0	0.0	0.0
	1.16e-03	4.28e-03	0.0	45,38,0	7.87e-05	1.43e-03	1.30e-03	44,45,2	1.00	0	1.00	0.07	0.93
1577	0.0	0.03	0.0	0,2,0	1.05e-04	3.74e-04	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	4.15e-04	6.98e-03	0.0	45,38,0	1.05e-04	5.54e-04	1.98e-03	44,45,38	1.00	0	1.00	0.07	0.93
1646	0.0	0.06	0.0	0,2,0	4.20e-04	6.56e-04	0.02	2,12,2	0.0	0	0.0	0.0	0.0
	0.0	6.98e-03	0.0	0,38,0	4.17e-04	5.22e-04	2.11e-03	2,11,2	0.0	0	0.0	0.0	0.0
1652	0.0	0.06	0.0	0,2,0	4.20e-04	6.56e-04	0.02	2,12,2	0.0	0	0.0	0.0	0.0
	0.0	6.70e-03	0.0	0,2,0	4.17e-04	2.49e-04	2.11e-03	2,18,2	0.0	0	0.0	0.0	0.0
1663	0.0	0.05	0.0	0,2,0	1.39e-04	6.97e-04	0.02	38,11,2	0.0	0	0.0	0.0	0.0
	1.47e-03	9.00e-04	0.0	45,34,0	1.37e-04	1.81e-03	3.22e-04	38,45,33	1.00	0	1.00	0.07	0.93
1684	0.0	0.05	0.0	0,2,0	1.39e-04	6.97e-04	0.02	38,11,2	0.0	0	0.0	0.0	0.0
	1.47e-03	9.00e-04	0.0	45,34,0	1.37e-04	1.81e-03	3.22e-04	38,45,33	1.00	0	1.00	0.07	0.93
2175	0.0	0.03	0.0	0,2,0	7.26e-05	8.75e-06	0.01	38,18,2	0.0	0	0.0	0.0	0.0
	3.70e-03	2.32e-03	0.0	28,38,0	7.22e-05	4.39e-03	6.72e-04	38,28,38	1.00	0	1.00	0.07	0.93
2184	0.0	0.03	0.0	0,2,0	7.85e-05	3.12e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	3.70e-03	3.33e-03	0.0	28,28,0	7.85e-05	4.39e-03	9.88e-04	44,28,2	1.00	0	1.00	0.07	0.93
2190	0.0	0.03	0.0	0,2,0	7.85e-05	5.72e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.72e-03	3.33e-03	0.0	34,28,0	7.85e-05	2.05e-03	9.88e-04	44,34,2	1.00	0	1.00	0.07	0.93
2199	0.0	0.03	0.0	0,2,0	5.67e-05	1.82e-04	0.01	28,11,2	0.0	0	0.0	0.0	0.0
	1.74e-03	4.28e-03	0.0	33,38,0	5.62e-05	2.27e-03	1.30e-03	28,33,2	1.00	0	1.00	0.07	0.93
2207	0.0	0.03	0.0	0,2,0	8.34e-05	7.28e-04	0.01	38,11,2	0.0	0	0.0	0.0	0.0
	1.80e-03	6.98e-03	0.0	33,38,0	8.26e-05	2.57e-03	1.98e-03	38,33,38	1.00	0	1.00	0.07	0.93
2250	0.0	0.06	0.0	0,2,0	6.61e-04	1.44e-03	0.02	2,11,2	0.0	0	0.0	0.0	0.0
	2.28e-03	6.98e-03	0.0	35,38,0	6.60e-04	3.23e-03	2.11e-03	2,33,2	1.00	0	1.00	0.07	0.93
2262	0.0	0.06	0.0	0,2,0	3.19e-03	1.44e-03	0.02	2,11,2	0.0	0	0.0	0.0	0.0
	0.02	6.70e-03	0.0	28,2,0	3.19e-03	0.02	2.11e-03	2,28,2	1.00	0	1.00	0.07	0.93
2277	0.0	0.01	0.0	0,2,0	3.19e-03	1.19e-04	5.23e-03	2,11,2	0.0	0	0.0	0.0	0.0
	0.04	5.84e-05	0.0	2,45,0	3.19e-03	0.05	2.41e-04	2,2,11	1.00	0	1.00	0.07	0.93
2287	0.0	0.05	0.0	0,2,0	1.97e-03	1.19e-03	0.02	2,11,2	0.0	0	0.0	0.0	0.0
	0.04	9.00e-04	0.0	2,34,0	1.96e-03	0.05	9.49e-04	2,2,8	1.00	0	1.00	0.07	0.93
2325	0.0	0.05	0.0	0,2,0	1.97e-03	1.19e-03	0.02	2,11,2	0.0	0	0.0	0.0	0.0
	0.02	9.00e-04	0.0	2,34,0	1.96e-03	0.02	9.49e-04	2,2,8	1.00	0	1.00	0.07	0.93
2434	0.0	0.03	0.0	0,2,0	1.97e-03	1.19e-03	0.01	2,11,2	0.0	0	0.0	0.0	0.0
	0.02	0.0	0.0	2,0,0	1.96e-03	0.02	9.49e-04	2,2,8	1.00	0	1.00	0.07	0.93
2454	0.0	0.03	0.0	0,2,0	1.97e-03	1.19e-03	0.01	2,11,2	0.0	0	0.0	0.0	0.0
	0.04	0.0	0.0	2,0,0	1.96e-03	0.05	9.49e-04	2,2,8	1.00	0	1.00	0.07	0.93
2473	0.0	0.01	0.0	0,2,0	3.19e-03	1.19e-04	5.23e-03	2,11,2	0.0	0	0.0	0.0	0.0
	0.04	5.84e-05	0.0	2,45,0	3.19e-03	0.05	2.41e-04	2,2,11	1.00	0	1.00	0.07	0.93
2496	0.0	0.04	0.0	0,2,0	3.19e-03	1.44e-03	0.01	2,11,2	0.0	0	0.0	0.0	0.0
	0.02	2.61e-03	0.0	28,44,0	3.19e-03	0.02	1.41e-03	2,28,43	1.00	0	1.00	0.07	0.93
2542	0.0	0.04	0.0	0,2,0	6.61e-04	1.44e-03	0.01	2,11,2	0.0	0	0.0	0.0	0.0
	2.28e-03	3.07e-03	0.0	35,44,0	6.60e-04	3.23e-03	1.64e-03	2,33,43	1.00	0	1.00	0.07	0.93
2563	0.0	0.02	0.0	0,2,0	1.37e-05	7.28e-04	8.83e-03	28,11,2	0.0	0	0.0	0.0	0.0
	1.80e-03	3.07e-03	0.0	33,44,0	1.34e-05	2.57e-03	1.64e-03	28,33,43	1.00	0	1.00	0.07	0.93
2579	0.0	0.02	0.0	0,2,0	5.67e-05	1.82e-04	8.83e-03	28,11,2	0.0	0	0.0	0.0	0.0
	1.74e-03	1.85e-03	0.0	33,46,0	5.62e-05	2.27e-03	5.73e-04	28,33,45	1.00	0	1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



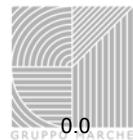
2602	0.0	0.02	0.0	0,2,0	5.67e-05	5.72e-05	8.75e-03	28,2,2	0.0	0	0.0	0.0	0.0
	1.72e-03	1.65e-03	0.0	34,45,0	5.62e-05	2.05e-03	5.06e-04	28,34,45			1.00	0.07	0.93
2620	0.0	0.02	0.0	0,2,0	4.01e-05	1.52e-05	8.17e-03	46,8,2	0.0	0	0.0	0.0	0.0
	3.70e-03	1.32e-03	0.0	28,43,0	4.01e-05	4.39e-03	3.88e-04	46,28,45			1.00	0.07	0.93
2639	0.0	0.02	0.0	0,2,0	3.02e-05	8.75e-06	8.17e-03	44,18,2	0.0	0	0.0	0.0	0.0
	3.70e-03	3.99e-04	0.0	28,45,0	3.01e-05	4.39e-03	1.16e-04	44,28,45			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.04	0.06	0.0		3.19e-03	0.05	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
118	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.10	1555.9	44	0.24	506.6	38	0.02	-6544.6	6.255e+04	46

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
253	0.0	0.02	0.0	0,2,0	7.23e-05	1.19e-05	6.05e-03	38,23,2	0.0	0	0.0	0.0	0.0
	1.47e-03	7.92e-05	0.0	38,35,0	7.21e-05	1.76e-03	2.01e-04	38,38,24			1.00	0.07	0.93
289	0.0	0.04	0.0	0,2,0	7.23e-05	3.56e-05	0.02	38,18,2	0.0	0	0.0	0.0	0.0
	3.67e-03	7.92e-05	0.0	38,35,0	7.21e-05	4.35e-03	2.01e-04	38,38,24			1.00	0.07	0.93
293	0.0	0.04	0.0	0,2,0	7.21e-05	3.56e-05	0.02	44,18,2	0.0	0	0.0	0.0	0.0
	3.67e-03	0.0	0.0	38,0,0	7.17e-05	4.35e-03	7.90e-05	44,38,24			1.00	0.07	0.93
297	0.0	0.04	0.0	0,2,0	7.21e-05	3.08e-05	0.01	44,24,2	0.0	0	0.0	0.0	0.0
	1.17e-03	0.0	0.0	38,0,0	7.17e-05	1.40e-03	3.97e-05	44,38,18			1.00	0.07	0.93
301	0.0	0.03	0.0	0,2,0	6.74e-05	1.52e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	5.41e-04	0.0	0.0	38,0,0	6.72e-05	6.57e-04	1.46e-05	44,38,18			1.00	0.07	0.93
309	0.0	0.03	0.0	0,2,0	6.48e-05	1.91e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	2.43e-04	1.27e-05	0.0	38,30,0	6.46e-05	3.04e-04	8.85e-06	44,38,8			1.00	0.07	0.93
317	0.0	0.03	0.0	0,2,0	6.39e-05	1.91e-05	9.33e-03	44,2,2	0.0	0	0.0	0.0	0.0
	6.11e-05	1.27e-05	0.0	44,30,0	6.37e-05	9.20e-05	6.82e-06	44,38,30			1.00	0.07	0.93
430	0.0	0.03	0.0	0,2,0	7.23e-05	4.46e-05	9.18e-03	38,18,2	0.0	0	0.0	0.0	0.0
	1.91e-03	7.92e-05	0.0	2,35,0	7.21e-05	2.37e-03	2.01e-04	38,18,24			1.00	0.07	0.93
442	0.0	0.04	0.0	0,2,0	7.23e-05	4.46e-05	0.02	38,18,2	0.0	0	0.0	0.0	0.0
	3.67e-03	7.92e-05	0.0	38,35,0	7.21e-05	4.35e-03	2.01e-04	38,38,24			1.00	0.07	0.93
444	0.0	0.04	0.0	0,2,0	7.21e-05	3.75e-05	0.02	44,18,2	0.0	0	0.0	0.0	0.0
	3.67e-03	0.0	0.0	38,0,0	7.17e-05	4.35e-03	1.05e-04	44,38,24			1.00	0.07	0.93
446	0.0	0.04	0.0	0,2,0	7.21e-05	3.08e-05	0.01	44,24,2	0.0	0	0.0	0.0	0.0
	2.42e-03	0.0	0.0	2,0,0	7.17e-05	2.95e-03	3.97e-05	44,2,18			1.00	0.07	0.93
448	0.0	0.03	0.0	0,2,0	6.74e-05	1.52e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.63e-03	0.0	0.0	2,0,0	6.72e-05	2.01e-03	1.46e-05	44,2,18			1.00	0.07	0.93
450	0.0	0.03	0.0	0,2,0	6.48e-05	1.91e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	9.42e-04	1.27e-05	0.0	2,30,0	6.46e-05	1.19e-03	2.24e-05	44,2,8			1.00	0.07	0.93
452	0.0	0.03	0.0	0,2,0	6.39e-05	1.91e-05	9.33e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.09e-04	1.27e-05	0.0	2,30,0	6.37e-05	5.95e-04	2.24e-05	44,2,8			1.00	0.07	0.93
1075	0.0	0.03	0.0	0,2,0	3.85e-05	1.77e-04	0.01	44,24,2	0.0	0	0.0	0.0	0.0
	2.70e-03	0.0	0.0	38,0,0	3.82e-05	3.43e-03	2.13e-04	44,38,18			1.00	0.07	0.93
1108	0.0	0.04	0.0	0,2,0	3.85e-05	1.77e-04	0.01	44,24,2	0.0	0	0.0	0.0	0.0
	3.50e-03	0.0	0.0	2,0,0	3.82e-05	4.42e-03	2.13e-04	44,2,18			1.00	0.07	0.93
1112	0.0	0.04	0.0	0,2,0	5.81e-05	3.75e-05	0.01	44,18,2	0.0	0	0.0	0.0	0.0
	3.50e-03	0.0	0.0	2,0,0	5.78e-05	4.42e-03	1.05e-04	44,2,24			1.00	0.07	0.93
1116	0.0	0.04	0.0	0,2,0	5.93e-05	8.21e-06	0.01	44,24,2	0.0	0	0.0	0.0	0.0
	2.92e-03	0.0	0.0	2,0,0	5.91e-05	3.62e-03	3.88e-05	44,2,24			1.00	0.07	0.93
1120	0.0	0.03	0.0	0,2,0	5.93e-05	1.03e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	2.09e-03	4.46e-05	0.0	2,45,0	5.91e-05	2.59e-03	1.74e-05	44,2,45			1.00	0.07	0.93
1128	0.0	0.03	0.0	0,2,0	6.01e-05	1.36e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	1.33e-03	8.11e-05	0.0	28,45,0	5.99e-05	1.67e-03	2.73e-05	44,28,8			1.00	0.07	0.93
1136	0.0	0.03	0.0	0,2,0	6.01e-05	1.36e-05	9.14e-03	44,2,2	0.0	0	0.0	0.0	0.0
	6.62e-04	8.11e-05	0.0	28,45,0	5.99e-05	9.26e-04	2.73e-05	44,28,8			1.00	0.07	0.93
1530	0.0	0.03	0.0	0,2,0	5.00e-05	2.11e-04	0.01	40,18,2	0.0	0	0.0	0.0	0.0
	2.70e-03	8.92e-05	0.0	38,25,0	4.93e-05	3.43e-03	2.13e-04	40,38,18			1.00	0.07	0.93
1550	0.0	0.04	0.0	0,2,0	5.00e-05	2.11e-04	0.01	40,18,2	0.0	0	0.0	0.0	0.0
	3.71e-03	8.92e-05	0.0	28,25,0	4.93e-05	4.57e-03	2.13e-04	40,18,18			1.00	0.07	0.93
1557	0.0	0.04	0.0	0,2,0	4.43e-05	1.18e-05	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	3.71e-03	1.58e-04	0.0	28,45,0	4.40e-05	4.57e-03	5.30e-05	44,18,45			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



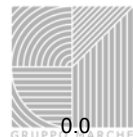
1561	0.0	0.03	0.0	0,2,0	4.69e-05	8.44e-06	0.01	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	3.14e-03	3.12e-04	0.0	28,45,0	4.67e-05	3.83e-03	9.37e-05	44,28,45			1.00	0.07	0.93	
1565	0.0	0.03	0.0	0,2,0	4.87e-05	8.18e-06	0.01	44,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.30e-03	4.17e-04	0.0	28,45,0	4.86e-05	2.81e-03	1.21e-04	44,28,45			1.00	0.07	0.93	
1569	0.0	0.03	0.0	0,2,0	5.19e-05	8.35e-06	9.98e-03	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.51e-03	4.86e-04	0.0	28,43,0	5.18e-05	1.86e-03	1.42e-04	44,28,43			1.00	0.07	0.93	
1572	0.0	0.02	0.0	0,2,0	5.19e-05	8.35e-06	8.80e-03	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	7.74e-04	4.86e-04	0.0	28,43,0	5.18e-05	1.02e-03	1.42e-04	44,28,43			1.00	0.07	0.93	
2086	0.0	0.03	0.0	0,2,0	9.33e-05	2.11e-04	0.01	40,18,2	0.0	0	0.0	0.0	0.0	0.0
	2.21e-03	1.04e-03	0.0	38,2,0	9.29e-05	2.75e-03	3.70e-04	40,38,2			1.00	0.07	0.93	
2134	0.0	0.04	0.0	0,2,0	9.33e-05	2.11e-04	0.01	40,18,2	0.0	0	0.0	0.0	0.0	0.0
	3.71e-03	1.04e-03	0.0	28,2,0	9.29e-05	4.57e-03	3.70e-04	40,18,2			1.00	0.07	0.93	
2138	0.0	0.04	0.0	0,2,0	3.41e-05	4.15e-05	0.01	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	3.71e-03	6.86e-04	0.0	28,45,0	3.38e-05	4.57e-03	2.12e-04	44,18,45			1.00	0.07	0.93	
2146	0.0	0.03	0.0	0,2,0	3.93e-05	2.04e-05	0.01	43,24,2	0.0	0	0.0	0.0	0.0	0.0
	3.14e-03	9.83e-04	0.0	28,45,0	3.93e-05	3.83e-03	2.79e-04	43,28,45			1.00	0.07	0.93	
2154	0.0	0.03	0.0	0,2,0	4.28e-05	1.18e-05	0.01	43,18,2	0.0	0	0.0	0.0	0.0	0.0
	2.30e-03	1.18e-03	0.0	28,45,0	4.28e-05	2.81e-03	3.37e-04	43,28,45			1.00	0.07	0.93	
2162	0.0	0.03	0.0	0,2,0	4.52e-05	1.99e-05	9.71e-03	43,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.70e-03	1.39e-03	0.0	28,45,0	4.52e-05	2.03e-03	3.95e-04	43,28,45			1.00	0.07	0.93	
2170	0.0	0.02	0.0	0,2,0	4.52e-05	1.99e-05	8.43e-03	43,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.48e-03	1.39e-03	0.0	28,45,0	4.52e-05	1.76e-03	3.95e-04	43,28,45			1.00	0.07	0.93	
2642	0.0	0.02	0.0	0,2,0	4.27e-05	1.99e-05	8.12e-03	43,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.48e-03	1.39e-03	0.0	28,45,0	4.27e-05	1.76e-03	3.95e-04	43,28,45			1.00	0.07	0.93	
2659	0.0	0.03	0.0	0,2,0	4.27e-05	1.99e-05	9.44e-03	43,2,2	0.0	0	0.0	0.0	0.0	0.0
	1.70e-03	1.39e-03	0.0	28,45,0	4.27e-05	2.03e-03	3.95e-04	43,28,45			1.00	0.07	0.93	
2783	0.0	0.03	0.0	0,2,0	3.85e-05	1.18e-05	0.01	43,18,2	0.0	0	0.0	0.0	0.0	0.0
	1.81e-03	1.18e-03	0.0	28,45,0	3.85e-05	2.18e-03	3.37e-04	43,28,45			1.00	0.07	0.93	
2792	0.0	0.03	0.0	0,2,0	3.36e-05	2.04e-05	0.01	43,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.81e-03	9.83e-04	0.0	28,45,0	3.36e-05	2.18e-03	2.79e-04	43,28,45			1.00	0.07	0.93	
2800	0.0	0.03	0.0	0,2,0	2.64e-05	4.15e-05	0.01	43,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.71e-03	6.86e-04	0.0	28,45,0	2.63e-05	2.06e-03	2.12e-04	43,28,45			1.00	0.07	0.93	
2806	0.0	0.03	0.0	0,2,0	9.33e-05	4.15e-05	0.01	40,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.27e-03	1.04e-03	0.0	28,2,0	9.29e-05	1.67e-03	3.70e-04	40,28,2			1.00	0.07	0.93	
2847	0.0	0.02	0.0	0,2,0	9.33e-05	3.09e-05	8.69e-03	40,8,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	1.04e-03	0.0	0,2,0	9.29e-05	1.04e-04	3.70e-04	40,18,2			0.0	0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	3.71e-03	0.04	0.0		9.33e-05	4.57e-03	0.02		0.0					

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
119	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.05	342.5	14	0.04	532.4	12	0.06	-4752.6	-1.343e+05	34

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
128	0.0	6.47e-03	0.0	0,38,0	4.57e-06	7.39e-05	2.38e-03	14,12,38	0.0	0	0.0	0.0	0.0
	0.0	1.35e-03	0.0	0,38,0	4.55e-06	2.54e-04	5.92e-04	14,43,44			0.0	0.0	0.0
129	0.0	0.01	0.0	0,2,0	6.32e-06	1.60e-04	5.06e-03	14,34,2	0.0	0	0.0	0.0	0.0
	1.52e-04	1.35e-03	0.0	23,38,0	6.18e-06	6.15e-04	5.92e-04	14,44,44			1.00	0.07	0.93
130	0.0	0.02	0.0	0,2,0	9.45e-06	7.01e-04	7.14e-03	24,34,28	0.0	0	0.0	0.0	0.0
	1.04e-03	1.08e-03	0.0	28,2,0	8.91e-06	2.58e-03	7.86e-04	24,28,34			1.00	0.07	0.93
131	0.0	0.02	0.0	0,2,0	1.06e-05	9.47e-04	8.78e-03	12,34,28	0.0	0	0.0	0.0	0.0
	1.69e-03	1.22e-03	0.0	28,28,0	9.67e-06	3.90e-03	1.28e-03	12,28,28			1.00	0.07	0.93
132	0.0	0.02	0.0	0,2,0	1.06e-05	1.08e-03	9.54e-03	12,38,2	0.0	0	0.0	0.0	0.0
	1.69e-03	1.22e-03	0.0	28,28,0	9.67e-06	3.90e-03	1.43e-03	12,28,28			1.00	0.07	0.93
133	0.0	0.03	0.0	0,2,0	1.77e-05	4.70e-03	0.02	24,2,2	0.0	0	0.0	0.0	0.0
	6.12e-04	9.31e-04	0.0	24,38,0	1.46e-05	3.77e-03	3.63e-03	24,2,2			1.00	0.07	0.93
134	0.0	0.04	0.0	0,2,0	1.77e-05	4.80e-03	0.02	24,2,2	0.0	0	0.0	0.0	0.0
	2.28e-03	1.39e-03	0.0	2,8,0	1.46e-05	6.71e-03	5.62e-03	24,2,2			1.00	0.07	0.93
135	0.0	0.04	0.0	0,2,0	5.64e-06	4.80e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0
	2.28e-03	1.39e-03	0.0	2,8,0	3.75e-06	6.71e-03	5.62e-03	12,2,2			1.00	0.07	0.93
136	0.0	0.01	0.0	0,2,0	8.08e-06	1.13e-03	5.97e-03	12,2,2	0.0	0	0.0	0.0	0.0
	2.05e-04	1.89e-04	0.0	14,23,0	7.72e-06	2.91e-04	9.37e-05	12,12,18			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



137	0.0	0.01	0.0	0,2,0	8.08e-06	1.13e-03	5.97e-03	12,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.05e-04	1.89e-04	0.0	14,23,0	7.72e-06	2.91e-04	9.37e-05	12,12,18			1.00	0.07	0.93	
597	0.0	8.01e-03	0.0	0,38,0	7.07e-06	1.36e-04	3.02e-03	12,44,38	0.0	0	0.0	0.0	0.0	0.0
	9.68e-05	1.35e-03	0.0	11,38,0	7.06e-06	8.06e-04	8.36e-04	12,8,38			1.00	0.07	0.93	
598	0.0	0.01	0.0	0,2,0	7.48e-06	1.60e-04	5.06e-03	12,34,2	0.0	0	0.0	0.0	0.0	0.0
	1.41e-03	2.10e-03	0.0	2,38,0	7.32e-06	3.99e-03	9.43e-04	12,2,38			1.00	0.07	0.93	
599	0.0	0.02	0.0	0,2,0	1.24e-05	7.01e-04	7.14e-03	24,34,28	0.0	0	0.0	0.0	0.0	0.0
	2.61e-03	2.80e-03	0.0	2,2,0	1.19e-05	6.63e-03	1.30e-03	24,2,2			1.00	0.07	0.93	
600	0.0	0.02	0.0	0,2,0	1.24e-05	9.47e-04	8.78e-03	24,34,28	0.0	0	0.0	0.0	0.0	0.0
	2.76e-03	2.80e-03	0.0	2,2,0	1.19e-05	6.89e-03	1.33e-03	24,2,2			1.00	0.07	0.93	
601	0.0	0.02	0.0	0,2,0	1.13e-05	1.08e-03	9.54e-03	24,38,2	0.0	0	0.0	0.0	0.0	0.0
	2.76e-03	2.77e-03	0.0	2,2,0	1.06e-05	6.89e-03	2.22e-03	24,2,2			1.00	0.07	0.93	
602	0.0	0.03	0.0	0,2,0	2.30e-05	4.70e-03	0.02	24,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.15e-03	1.56e-03	0.0	28,2,0	2.15e-05	5.03e-03	3.63e-03	24,28,2			1.00	0.07	0.93	
603	0.0	0.04	0.0	0,2,0	2.30e-05	4.80e-03	0.02	24,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.28e-03	1.56e-03	0.0	2,2,0	2.15e-05	6.71e-03	5.62e-03	24,2,2			1.00	0.07	0.93	
604	0.0	0.04	0.0	0,2,0	5.64e-06	4.80e-03	0.02	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.28e-03	1.39e-03	0.0	2,8,0	3.75e-06	6.71e-03	5.62e-03	12,2,2			1.00	0.07	0.93	
605	0.0	0.01	0.0	0,2,0	8.31e-06	1.13e-03	5.97e-03	12,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.05e-04	3.93e-04	0.0	14,2,0	7.90e-06	2.91e-04	1.62e-04	12,12,2			1.00	0.07	0.93	
606	0.0	0.01	0.0	0,2,0	8.31e-06	1.13e-03	5.97e-03	12,2,2	0.0	0	0.0	0.0	0.0	0.0
	2.05e-04	3.93e-04	0.0	14,2,0	7.90e-06	2.91e-04	1.62e-04	12,12,2			1.00	0.07	0.93	
955	0.0	8.01e-03	0.0	0,38,0	1.07e-05	1.36e-04	3.02e-03	12,44,38	0.0	0	0.0	0.0	0.0	0.0
	7.59e-04	1.08e-03	0.0	2,38,0	1.06e-05	2.03e-03	9.96e-04	12,2,2			1.00	0.07	0.93	
956	0.0	0.01	0.0	0,2,0	1.07e-05	2.01e-04	4.16e-03	12,38,2	0.0	0	0.0	0.0	0.0	0.0
	2.82e-03	2.54e-03	0.0	2,2,0	1.06e-05	6.83e-03	1.25e-03	12,2,2			1.00	0.07	0.93	
957	0.0	0.02	0.0	0,2,0	1.24e-05	8.33e-04	6.22e-03	24,38,2	0.0	0	0.0	0.0	0.0	0.0
	4.83e-03	3.70e-03	0.0	2,38,0	1.19e-05	0.01	1.82e-03	24,2,38			1.00	0.07	0.93	
958	0.0	0.02	0.0	0,2,0	1.24e-05	1.13e-03	7.60e-03	24,38,2	0.0	0	0.0	0.0	0.0	0.0
	4.83e-03	3.70e-03	0.0	2,38,0	1.19e-05	0.01	1.82e-03	24,2,38			1.00	0.07	0.93	
959	0.0	0.02	0.0	0,2,0	1.33e-05	1.13e-03	9.13e-03	24,38,2	0.0	0	0.0	0.0	0.0	0.0
	4.77e-03	3.44e-03	0.0	38,38,0	1.32e-05	0.01	2.94e-03	24,38,38			1.00	0.07	0.93	
960	0.0	0.03	0.0	0,2,0	2.59e-05	1.39e-03	0.01	24,38,2	0.0	0	0.0	0.0	0.0	0.0
	4.80e-03	2.24e-03	0.0	2,18,0	2.53e-05	0.01	3.29e-03	24,2,2			1.00	0.07	0.93	
961	0.0	0.03	0.0	0,2,0	2.59e-05	1.54e-03	0.01	24,38,2	0.0	0	0.0	0.0	0.0	0.0
	4.80e-03	2.24e-03	0.0	2,18,0	2.53e-05	0.01	3.29e-03	24,2,2			1.00	0.07	0.93	
962	0.0	0.03	0.0	0,2,0	5.20e-06	1.54e-03	0.01	12,38,2	0.0	0	0.0	0.0	0.0	0.0
	2.23e-03	6.29e-04	0.0	8,24,0	4.24e-06	4.04e-03	8.02e-04	12,8,38			1.00	0.07	0.93	
963	0.0	0.01	0.0	0,2,0	1.81e-05	6.44e-04	5.60e-03	12,2,2	0.0	0	0.0	0.0	0.0	0.0
	9.58e-05	2.14e-03	0.0	25,8,0	1.76e-05	7.25e-04	1.17e-03	12,2,2			1.00	0.07	0.93	
964	0.0	0.01	0.0	0,2,0	1.81e-05	6.44e-04	5.60e-03	12,2,2	0.0	0	0.0	0.0	0.0	0.0
	9.58e-05	2.14e-03	0.0	25,8,0	1.76e-05	7.25e-04	1.17e-03	12,2,2			1.00	0.07	0.93	
1369	0.0	7.76e-03	0.0	0,38,0	1.34e-05	1.29e-04	2.95e-03	8,44,38	0.0	0	0.0	0.0	0.0	0.0
	7.59e-04	8.81e-04	0.0	2,2,0	1.33e-05	2.03e-03	9.96e-04	8,2,2			1.00	0.07	0.93	
1370	0.0	8.91e-03	0.0	0,2,0	1.34e-05	2.01e-04	3.38e-03	8,38,38	0.0	0	0.0	0.0	0.0	0.0
	2.82e-03	2.54e-03	0.0	2,2,0	1.33e-05	6.83e-03	1.42e-03	8,2,2			1.00	0.07	0.93	
1371	0.0	0.01	0.0	0,2,0	2.82e-05	8.33e-04	5.48e-03	18,38,2	0.0	0	0.0	0.0	0.0	0.0
	5.84e-03	3.70e-03	0.0	2,38,0	2.77e-05	0.01	1.87e-03	18,2,2			1.00	0.07	0.93	
1372	0.0	0.02	0.0	0,2,0	2.82e-05	1.13e-03	6.84e-03	18,38,2	0.0	0	0.0	0.0	0.0	0.0
	6.29e-03	3.70e-03	0.0	2,38,0	2.77e-05	0.01	1.87e-03	18,2,2			1.00	0.07	0.93	
1373	0.0	0.02	0.0	0,2,0	3.35e-05	1.13e-03	7.58e-03	18,38,2	0.0	0	0.0	0.0	0.0	0.0
	6.29e-03	3.44e-03	0.0	2,38,0	3.31e-05	0.01	4.13e-03	18,2,2			1.00	0.07	0.93	
1374	0.0	0.03	0.0	0,2,0	6.08e-05	1.37e-03	0.01	18,38,2	0.0	0	0.0	0.0	0.0	0.0
	9.26e-03	2.62e-03	0.0	2,2,0	6.00e-05	0.02	4.13e-03	18,2,2			1.00	0.07	0.93	
1375	0.0	0.03	0.0	0,2,0	6.08e-05	1.54e-03	0.01	18,38,2	0.0	0	0.0	0.0	0.0	0.0
	0.01	4.25e-03	0.0	2,2,0	6.00e-05	0.02	3.79e-03	18,2,2			1.00	0.07	0.93	
1376	0.0	0.03	0.0	0,2,0	8.51e-05	1.54e-03	0.01	8,38,2	0.0	0	0.0	0.0	0.0	0.0
	0.01	4.25e-03	0.0	2,2,0	8.43e-05	0.02	2.74e-03	8,2,2			1.00	0.07	0.93	
1377	0.0	0.01	0.0	0,2,0	8.51e-05	7.14e-04	5.60e-03	8,2,2	0.0	0	0.0	0.0	0.0	0.0
	5.27e-03	2.48e-03	0.0	2,8,0	8.43e-05	0.01	1.86e-03	8,2,2			1.00	0.07	0.93	
1378	0.0	0.01	0.0	0,2,0	1.81e-05	3.44e-04	5.60e-03	12,38,2	0.0	0	0.0	0.0	0.0	0.0
	4.78e-04	2.14e-03	0.0	25,8,0	1.76e-05	8.92e-04	1.23e-03	12,23,8			1.00	0.07	0.93	
1892	0.0	7.00e-03	0.0	0,2,0	3.02e-05	1.39e-04	2.63e-03	8,38,2	0.0	0	0.0	0.0	0.0	0.0
	5.09e-04	1.45e-03	0.0	2,8,0	3.02e-05	1.56e-03	9.03e-04	8,2,2			1.00	0.07	0.93	
1893	0.0	7.00e-03	0.0	0,2,0	3.02e-05	2.22e-04	2.63e-03	8,38,2	0.0	0	0.0	0.0	0.0	0.0
	2.53e-03	2.34e-03	0.0	2,2,0	3.02e-05	6.19e-03	1.42e-03	8,2,2			1.00	0.07	0.93	
1894	0.0	9.91e-03	0.0	0,2,0	6.88e-05	5.66e-04	3.72e-03	2,43,38	0.0	0	0.0	0.0	0.0	0.0
	5.84e-03	3.63e-03	0.0	2,2,0	6.73e-05	0.01	1.87e-03	2,2,2			1.00	0.07	0.93	
1895	0.0	0.01	0.0	0,2,0	6.88e-05	7.69e-04	4.73e-03	2,44,2	0.0	0	0.0	0.0	0.0	0.0
	6.29e-03	3.63e-03	0.0	2,2,0	6.73e-05	0.01	2.24e-03	2,2,2			1.00	0.07	0.93	
1896	0.0	0.02	0.0	0,2,0	1.02e-04	7.69e-04	6.30e-03	18,44,2	0.0	0	0.0	0.0	0.0	0.0
	6.29e-03	3.13e-03	0.0	2,2,0	9.87e-05	0.01	4.13e-03	18,2,2			1.00	0.07	0.93	
1897	0.0	0.03	0.0	0,2,0	1.20e-04	1.37e-03	0.01	2,38,2	0.0	0	0.0	0.0	0.0	0.0
	9.26e-03	3.81e-03	0.0	2,8,0	1.19e-04	0.02	7.20e-03	2,2,2			1.00	0.07	0.93	
1898	0.0	0.03	0.0	0,2,0	1.20e-04	1.37e-03	0.01	2,38,2	0.0	0	0.0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



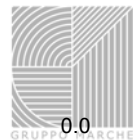
1899	0.01	4.56e-03	0.0	2,8,0	1.19e-04	0.02	7.20e-03	2,2,2			1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	1.31e-04	8.59e-04	9.55e-03	8,38,2	0.0	0	0.0	0.0	0.0
	0.01	4.56e-03	0.0	2,8,0	1.29e-04	0.02	6.14e-03	8,2,2			1.00	0.07	0.93
1900	0.0	9.91e-03	0.0	0,2,0	1.31e-04	8.33e-04	3.94e-03	8,2,2	0.0	0	0.0	0.0	0.0
	5.27e-03	2.48e-03	0.0	2,8,0	1.29e-04	0.01	1.86e-03	8,2,2			1.00	0.07	0.93
1901	0.0	9.91e-03	0.0	0,2,0	1.61e-05	8.33e-04	3.94e-03	12,2,2	0.0	0	0.0	0.0	0.0
	1.38e-03	1.96e-03	0.0	18,8,0	1.55e-05	2.45e-03	1.23e-03	12,18,8			1.00	0.07	0.93
2667	0.0	6.01e-03	0.0	0,2,0	3.02e-05	1.39e-04	2.29e-03	8,38,2	0.0	0	0.0	0.0	0.0
	2.54e-04	1.45e-03	0.0	25,8,0	3.02e-05	5.80e-04	8.51e-04	8,25,8			1.00	0.07	0.93
2668	0.0	6.01e-03	0.0	0,2,0	3.02e-05	2.22e-04	2.29e-03	8,38,2	0.0	0	0.0	0.0	0.0
	1.31e-03	1.94e-03	0.0	24,8,0	3.02e-05	3.12e-03	8.51e-04	8,18,8			1.00	0.07	0.93
2669	0.0	5.55e-03	0.0	0,2,0	6.88e-05	5.02e-04	2.54e-03	2,2,2	0.0	0	0.0	0.0	0.0
	2.10e-03	2.19e-03	0.0	18,8,0	6.73e-05	4.91e-03	9.62e-04	2,2,8			1.00	0.07	0.93
2670	0.0	8.42e-03	0.0	0,2,0	6.88e-05	5.41e-04	3.58e-03	2,2,2	0.0	0	0.0	0.0	0.0
	2.72e-03	2.28e-03	0.0	18,8,0	6.73e-05	6.26e-03	2.24e-03	2,2,2			1.00	0.07	0.93
2671	0.0	0.01	0.0	0,2,0	1.02e-04	5.41e-04	4.34e-03	18,2,2	0.0	0	0.0	0.0	0.0
	2.72e-03	2.28e-03	0.0	18,8,0	9.87e-05	6.26e-03	2.90e-03	18,2,2			1.00	0.07	0.93
2672	0.0	0.02	0.0	0,2,0	1.20e-04	5.14e-04	8.94e-03	2,2,2	0.0	0	0.0	0.0	0.0
	3.73e-03	3.81e-03	0.0	2,8,0	1.19e-04	9.70e-03	7.20e-03	2,2,2			1.00	0.07	0.93
2673	0.0	0.02	0.0	0,2,0	1.20e-04	4.52e-04	8.94e-03	2,45,2	0.0	0	0.0	0.0	0.0
	4.25e-03	4.56e-03	0.0	2,8,0	1.19e-04	0.01	7.20e-03	2,2,2			1.00	0.07	0.93
2674	0.0	0.02	0.0	0,2,0	1.31e-04	6.96e-04	8.42e-03	8,2,2	0.0	0	0.0	0.0	0.0
	4.25e-03	4.56e-03	0.0	2,8,0	1.29e-04	0.01	6.14e-03	8,2,2			1.00	0.07	0.93
2675	0.0	5.38e-03	0.0	0,2,0	1.31e-04	8.33e-04	2.76e-03	8,2,2	0.0	0	0.0	0.0	0.0
	1.38e-03	1.81e-03	0.0	18,12,0	1.29e-04	2.45e-03	1.50e-03	8,18,2			1.00	0.07	0.93
2676	0.0	4.59e-03	0.0	0,2,0	1.61e-05	8.33e-04	2.58e-03	12,2,2	0.0	0	0.0	0.0	0.0
	1.38e-03	9.74e-04	0.0	18,12,0	1.55e-05	2.45e-03	4.78e-04	12,18,12			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.01	0.04	0.0		1.31e-04	0.02	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
120	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.06	234.8	13	0.12	-1142.1	18	0.24	-3790.0	-3.626e+05	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
230	0.0	7.92e-03	0.0	0,2,0	8.63e-06	1.37e-04	2.89e-03	24,45,2	0.0	0	0.0	0.0	0.0
	1.98e-05	4.08e-04	0.0	25,8,0	8.59e-06	1.47e-04	2.02e-04	24,46,44			1.00	0.07	0.93
231	0.0	0.01	0.0	0,2,0	9.27e-06	1.37e-04	3.79e-03	24,45,2	0.0	0	0.0	0.0	0.0
	1.07e-04	4.08e-04	0.0	25,8,0	9.20e-06	1.47e-04	2.02e-04	24,46,44			1.00	0.07	0.93
232	0.0	0.01	0.0	0,8,0	9.27e-06	8.84e-05	5.27e-03	24,28,8	0.0	0	0.0	0.0	0.0
	1.83e-04	3.24e-04	0.0	26,12,0	9.20e-06	2.44e-04	1.66e-04	24,26,44			1.00	0.07	0.93
233	0.0	0.01	0.0	0,8,0	6.80e-06	7.36e-05	5.27e-03	24,45,8	0.0	0	0.0	0.0	0.0
	1.83e-04	2.13e-04	0.0	26,11,0	6.73e-06	2.44e-04	1.24e-04	24,26,46			1.00	0.07	0.93
234	0.0	0.06	0.0	0,2,0	1.43e-05	1.13e-03	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	8.27e-04	4.03e-05	0.0	8,25,0	1.10e-05	1.10e-03	2.56e-04	18,8,38			1.00	0.07	0.93
235	0.0	0.06	0.0	0,2,0	1.43e-05	1.13e-03	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	8.27e-04	4.03e-05	0.0	8,25,0	1.10e-05	1.10e-03	2.56e-04	18,8,38			1.00	0.07	0.93
698	0.0	7.92e-03	0.0	0,2,0	9.86e-06	1.37e-04	2.89e-03	24,45,2	0.0	0	0.0	0.0	0.0
	1.98e-05	1.19e-03	0.0	25,8,0	9.81e-06	1.47e-04	3.58e-04	24,46,8			1.00	0.07	0.93
699	0.0	0.01	0.0	0,2,0	1.22e-05	1.37e-04	3.79e-03	24,45,2	0.0	0	0.0	0.0	0.0
	1.07e-04	1.19e-03	0.0	25,8,0	1.21e-05	1.47e-04	3.58e-04	24,46,8			1.00	0.07	0.93
700	0.0	0.01	0.0	0,8,0	1.22e-05	8.84e-05	5.27e-03	24,28,8	0.0	0	0.0	0.0	0.0
	1.83e-04	8.91e-04	0.0	26,8,0	1.21e-05	2.44e-04	2.80e-04	24,26,8			1.00	0.07	0.93
701	0.0	0.01	0.0	0,8,0	7.79e-06	7.36e-05	5.27e-03	18,45,8	0.0	0	0.0	0.0	0.0
	1.83e-04	3.41e-04	0.0	26,8,0	7.64e-06	2.44e-04	1.35e-04	18,26,8			1.00	0.07	0.93
702	0.0	0.06	0.0	0,2,0	2.79e-05	1.35e-03	0.02	18,38,2	0.0	0	0.0	0.0	0.0
	8.27e-04	2.16e-04	0.0	8,28,0	2.54e-05	1.55e-03	2.78e-04	18,2,38			1.00	0.07	0.93
703	0.0	0.06	0.0	0,2,0	2.79e-05	1.35e-03	0.02	18,38,2	0.0	0	0.0	0.0	0.0
	8.27e-04	2.16e-04	0.0	8,28,0	2.54e-05	1.55e-03	2.78e-04	18,2,38			1.00	0.07	0.93
1054	0.0	7.33e-03	0.0	0,2,0	9.86e-06	1.09e-04	2.68e-03	24,45,2	0.0	0	0.0	0.0	0.0
	0.0	2.29e-03	0.0	0,8,0	9.81e-06	1.91e-04	6.88e-04	24,45,8			0.0	0.0	0.0
1055	0.0	9.84e-03	0.0	0,2,0	1.74e-05	1.09e-04	3.59e-03	18,45,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1056	0.0	2.42e-03	0.0	0,2,0	1.73e-05	1.91e-04	7.34e-04	18,45,2	0.0	0	0.0	0.0	0.0
	0.0	0.02	0.0	0,2,0	3.26e-05	7.10e-05	5.70e-03	18,28,2	0.0	0	0.0	0.0	0.0
	0.0	2.42e-03	0.0	0,2,0	3.23e-05	2.73e-04	8.18e-04	18,38,18	0.0	0	0.0	0.0	0.0
1057	0.0	0.02	0.0	0,2,0	3.26e-05	5.46e-05	5.70e-03	18,28,2	0.0	0	0.0	0.0	0.0
	0.0	2.10e-03	0.0	0,18,0	3.23e-05	2.73e-04	8.18e-04	18,38,18	0.0	0	0.0	0.0	0.0
1058	0.0	0.05	0.0	0,2,0	2.79e-05	1.74e-03	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	3.48e-03	4.57e-04	0.0	38,13,0	2.54e-05	5.85e-03	1.18e-03	18,38,38	0.0	0	1.00	0.07	0.93
1059	0.0	0.05	0.0	0,2,0	2.79e-05	1.74e-03	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	3.48e-03	4.57e-04	0.0	38,13,0	2.54e-05	5.85e-03	1.18e-03	18,38,38	0.0	0	1.00	0.07	0.93
1451	0.0	6.26e-03	0.0	0,2,0	9.44e-06	7.26e-05	2.28e-03	24,45,28	0.0	0	0.0	0.0	0.0
	0.0	2.29e-03	0.0	0,8,0	9.42e-06	1.91e-04	6.88e-04	24,45,8	0.0	0	0.0	0.0	0.0
1452	0.0	8.65e-03	0.0	0,2,0	1.74e-05	7.26e-05	3.12e-03	18,45,2	0.0	0	0.0	0.0	0.0
	0.0	2.42e-03	0.0	0,2,0	1.73e-05	1.91e-04	7.34e-04	18,45,2	0.0	0	0.0	0.0	0.0
1453	0.0	0.02	0.0	0,2,0	3.70e-05	9.02e-05	5.70e-03	18,18,2	0.0	0	0.0	0.0	0.0
	0.0	2.42e-03	0.0	0,2,0	3.67e-05	2.73e-04	8.18e-04	18,38,18	0.0	0	0.0	0.0	0.0
1454	0.0	0.02	0.0	0,2,0	1.36e-04	9.02e-05	5.70e-03	18,18,2	0.0	0	0.0	0.0	0.0
	3.02e-04	2.10e-03	0.0	45,18,0	1.34e-04	7.85e-04	8.18e-04	18,45,18	0.0	0	1.00	0.07	0.93
1455	0.0	3.99e-03	0.0	0,2,0	1.36e-04	4.26e-04	1.93e-03	18,38,2	0.0	0	0.0	0.0	0.0
	4.85e-03	8.67e-04	0.0	38,8,0	1.34e-04	7.04e-03	4.56e-04	18,38,28	0.0	0	1.00	0.07	0.93
1456	0.0	0.04	0.0	0,2,0	5.77e-05	1.74e-03	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	5.64e-03	7.33e-04	0.0	28,13,0	5.85e-05	0.01	7.70e-03	18,38,38	0.0	0	1.00	0.07	0.93
1619	0.0	0.04	0.0	0,2,0	5.77e-05	1.74e-03	0.02	18,28,2	0.0	0	0.0	0.0	0.0
	5.64e-03	4.57e-04	0.0	28,13,0	5.85e-05	0.01	7.70e-03	18,38,38	0.0	0	1.00	0.07	0.93
2061	0.0	4.96e-03	0.0	0,2,0	4.74e-06	1.12e-04	1.84e-03	24,45,28	0.0	0	0.0	0.0	0.0
	0.0	2.23e-03	0.0	0,8,0	4.71e-06	1.91e-04	6.68e-04	24,45,8	0.0	0	0.0	0.0	0.0
2062	0.0	6.77e-03	0.0	0,2,0	1.39e-05	1.12e-04	2.44e-03	18,45,2	0.0	0	0.0	0.0	0.0
	5.13e-05	2.23e-03	0.0	25,8,0	1.39e-05	2.27e-04	6.68e-04	18,44,8	0.0	0	1.00	0.07	0.93
2063	0.0	0.01	0.0	0,2,0	5.56e-05	1.04e-04	4.11e-03	18,28,2	0.0	0	0.0	0.0	0.0
	2.31e-04	2.18e-03	0.0	45,8,0	5.56e-05	5.93e-04	6.54e-04	18,45,8	0.0	0	1.00	0.07	0.93
2064	0.0	0.01	0.0	0,2,0	1.36e-04	9.02e-05	4.11e-03	18,18,2	0.0	0	0.0	0.0	0.0
	3.02e-04	2.11e-03	0.0	45,8,0	1.34e-04	7.85e-04	7.02e-04	18,45,8	0.0	0	1.00	0.07	0.93
2065	0.0	4.96e-03	0.0	0,2,0	1.36e-04	4.26e-04	2.15e-03	18,38,2	0.0	0	0.0	0.0	0.0
	4.85e-03	2.11e-03	0.0	38,8,0	1.34e-04	7.04e-03	1.03e-03	18,38,38	0.0	0	1.00	0.07	0.93
2066	0.0	0.03	0.0	0,2,0	2.06e-04	8.62e-04	9.75e-03	2,34,2	0.0	0	0.0	0.0	0.0
	5.64e-03	2.31e-03	0.0	28,28,0	2.06e-04	0.01	7.70e-03	2,38,38	0.0	0	1.00	0.07	0.93
2067	0.0	0.03	0.0	0,2,0	2.06e-04	8.62e-04	9.75e-03	2,34,2	0.0	0	0.0	0.0	0.0
	5.64e-03	2.31e-03	0.0	28,28,0	2.06e-04	0.01	7.70e-03	2,38,38	0.0	0	1.00	0.07	0.93
2822	0.0	3.41e-03	0.0	0,2,0	4.74e-06	1.12e-04	1.33e-03	24,45,28	0.0	0	0.0	0.0	0.0
	0.0	1.29e-03	0.0	0,8,0	4.71e-06	1.46e-04	3.96e-04	24,46,8	0.0	0	0.0	0.0	0.0
2823	0.0	4.48e-03	0.0	0,2,0	1.39e-05	1.12e-04	1.71e-03	18,45,2	0.0	0	0.0	0.0	0.0
	5.13e-05	1.29e-03	0.0	25,8,0	1.39e-05	2.27e-04	4.57e-04	18,44,8	0.0	0	1.00	0.07	0.93
2824	0.0	5.68e-03	0.0	0,2,0	5.56e-05	1.04e-04	2.07e-03	18,28,2	0.0	0	0.0	0.0	0.0
	2.31e-04	1.40e-03	0.0	45,8,0	5.56e-05	5.93e-04	5.19e-04	18,45,8	0.0	0	1.00	0.07	0.93
2825	0.0	5.68e-03	0.0	0,2,0	1.21e-04	8.80e-05	2.07e-03	18,28,2	0.0	0	0.0	0.0	0.0
	2.31e-04	2.11e-03	0.0	45,8,0	1.20e-04	7.49e-04	7.02e-04	18,45,8	0.0	0	1.00	0.07	0.93
2826	0.0	4.96e-03	0.0	0,2,0	1.21e-04	3.41e-04	2.15e-03	18,28,2	0.0	0	0.0	0.0	0.0
	2.23e-04	2.11e-03	0.0	45,8,0	1.20e-04	7.49e-04	1.03e-03	18,45,38	0.0	0	1.00	0.07	0.93
2827	0.0	0.02	0.0	0,2,0	2.06e-04	6.34e-04	6.41e-03	2,38,2	0.0	0	0.0	0.0	0.0
	6.75e-04	2.31e-03	0.0	25,28,0	2.06e-04	4.39e-03	4.81e-03	2,38,38	0.0	0	1.00	0.07	0.93
2828	0.0	0.02	0.0	0,2,0	2.06e-04	6.34e-04	6.41e-03	2,38,2	0.0	0	0.0	0.0	0.0
	6.75e-04	2.31e-03	0.0	25,28,0	2.06e-04	4.39e-03	4.81e-03	2,38,38	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	5.64e-03	0.06	0.0		2.06e-04	0.01	0.02		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
121	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.04	-401.1	28	0.02	-383.8	28	0.06	-1257.9	-1.155e+05	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2818	1.73e-03	1.11e-03	0.0	46,43,0	5.89e-05	3.11e-03	2.60e-03	38,46,45	0.0	0	0.74	0.04	0.96
	7.38e-04	1.34e-03	0.0	25,12,0	5.70e-05	1.91e-03	1.99e-03	38,43,43	0.0	0	1.00	0.07	0.93
2819	3.79e-03	4.24e-03	0.0	45,44,0	5.89e-05	6.98e-03	8.07e-03	38,45,44	0.0	0	0.74	0.04	0.96



2820	1.45e-03	1.36e-03	0.0	45,44,0	5.70e-05	3.46e-03	1.99e-03	38,43,43	0.0	0	1.00	0.07	0.93
	4.71e-03	4.89e-03	0.0	45,44,0	2.22e-05	8.51e-03	9.58e-03	38,45,44	0.0	0	0.74	0.04	0.96
	1.45e-03	1.36e-03	0.0	45,44,0	2.09e-05	3.46e-03	6.46e-04	38,43,44	0.0	0	1.00	0.07	0.93
2821	4.87e-03	4.97e-03	0.0	45,44,0	1.07e-05	8.71e-03	9.75e-03	38,45,44	0.0	0	0.74	0.04	0.96
	7.26e-04	7.74e-04	0.0	45,44,0	9.49e-06	1.72e-03	3.49e-04	38,45,44	0.0	0	1.00	0.07	0.93
2822	4.87e-03	5.12e-03	0.0	45,44,0	6.06e-06	8.71e-03	9.82e-03	44,45,44	0.0	0	0.74	0.04	0.96
	1.73e-04	7.89e-04	0.0	45,8,0	3.83e-06	4.28e-04	3.72e-04	38,45,38	0.0	0	1.00	0.07	0.93
2823	4.82e-03	5.37e-03	0.0	45,44,0	4.27e-06	8.63e-03	9.96e-03	46,45,44	0.0	0	0.74	0.04	0.96
	1.14e-04	9.63e-04	0.0	25,8,0	3.21e-06	2.12e-04	3.72e-04	28,45,38	0.0	0	1.00	0.07	0.93
2824	4.78e-03	5.47e-03	0.0	45,44,0	2.09e-05	8.63e-03	0.01	2,45,44	0.0	0	0.74	0.04	0.96
	2.05e-04	1.21e-03	0.0	45,8,0	2.06e-05	6.19e-04	4.73e-04	2,45,38	0.0	0	1.00	0.07	0.93
2825	4.78e-03	5.47e-03	0.0	45,44,0	5.15e-05	8.63e-03	0.01	2,45,44	0.0	0	0.74	0.04	0.96
	1.07e-03	1.87e-03	0.0	46,38,0	5.11e-05	3.00e-03	7.75e-04	2,46,38	0.0	0	1.00	0.07	0.93
2826	4.75e-03	5.13e-03	0.0	45,44,0	6.81e-05	8.58e-03	9.67e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.91e-03	2.48e-03	0.0	46,44,0	6.76e-05	5.08e-03	2.07e-03	2,46,44	0.0	0	1.00	0.07	0.93
2827	3.25e-03	4.88e-03	0.0	45,28,0	1.86e-04	6.37e-03	7.65e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.91e-03	2.73e-03	0.0	46,38,0	1.85e-04	5.08e-03	3.94e-03	2,46,44	0.0	0	1.00	0.07	0.93
2828	1.77e-03	4.89e-03	0.0	30,33,0	1.86e-04	2.51e-03	4.42e-03	2,40,43	0.0	0	0.74	0.04	0.96
	2.41e-03	2.73e-03	0.0	44,38,0	1.85e-04	5.59e-03	3.94e-03	2,44,44	0.0	0	1.00	0.07	0.93
2999	3.02e-03	4.88e-03	0.0	46,45,0	5.89e-05	3.33e-03	2.70e-03	38,46,43	0.0	0	0.74	0.04	0.96
	3.38e-03	1.82e-03	0.0	44,45,0	5.70e-05	7.12e-03	2.31e-03	38,44,43	0.0	0	1.00	0.07	0.93
3135	4.13e-03	4.24e-03	0.0	45,44,0	5.89e-05	6.98e-03	8.07e-03	38,45,44	0.0	0	0.74	0.04	0.96
	3.38e-03	1.82e-03	0.0	44,45,0	5.70e-05	7.12e-03	2.31e-03	38,44,43	0.0	0	1.00	0.07	0.93
3136	5.22e-03	4.88e-03	0.0	45,44,0	2.22e-05	8.51e-03	9.58e-03	38,45,44	0.0	0	0.74	0.04	0.96
	2.81e-03	1.36e-03	0.0	38,44,0	2.09e-05	4.72e-03	9.13e-04	38,44,43	0.0	0	1.00	0.07	0.93
3137	5.45e-03	4.97e-03	0.0	45,44,0	1.07e-05	8.71e-03	9.75e-03	38,45,44	0.0	0	0.74	0.04	0.96
	2.87e-03	7.74e-04	0.0	2,44,0	9.49e-06	4.06e-03	3.49e-04	38,38,44	0.0	0	1.00	0.07	0.93
3138	5.45e-03	5.12e-03	0.0	45,44,0	6.06e-06	8.71e-03	9.82e-03	44,45,44	0.0	0	0.74	0.04	0.96
	2.94e-03	7.89e-04	0.0	2,8,0	3.83e-06	3.58e-03	3.72e-04	38,2,38	0.0	0	1.00	0.07	0.93
3139	5.41e-03	5.37e-03	0.0	45,44,0	4.27e-06	8.63e-03	9.96e-03	46,45,44	0.0	0	0.74	0.04	0.96
	2.94e-03	9.63e-04	0.0	2,8,0	3.21e-06	3.58e-03	3.72e-04	28,2,38	0.0	0	1.00	0.07	0.93
3140	5.44e-03	5.47e-03	0.0	45,44,0	2.09e-05	8.63e-03	0.01	2,45,44	0.0	0	0.74	0.04	0.96
	2.75e-03	1.21e-03	0.0	2,8,0	2.06e-05	3.42e-03	4.73e-04	2,2,38	0.0	0	1.00	0.07	0.93
3141	5.44e-03	5.47e-03	0.0	45,44,0	5.15e-05	8.63e-03	0.01	2,45,44	0.0	0	0.74	0.04	0.96
	2.46e-03	1.87e-03	0.0	38,38,0	5.11e-05	4.26e-03	7.75e-04	2,44,38	0.0	0	1.00	0.07	0.93
3142	5.28e-03	5.13e-03	0.0	45,44,0	6.93e-05	8.58e-03	9.67e-03	2,45,44	0.0	0	0.74	0.04	0.96
	2.65e-03	2.48e-03	0.0	44,44,0	6.91e-05	6.23e-03	2.07e-03	2,44,44	0.0	0	1.00	0.07	0.93
3143	3.79e-03	5.04e-03	0.0	45,2,0	1.86e-04	6.37e-03	7.65e-03	2,45,44	0.0	0	0.74	0.04	0.96
	2.65e-03	2.73e-03	0.0	44,38,0	1.85e-04	6.23e-03	3.94e-03	2,44,44	0.0	0	1.00	0.07	0.93
3144	1.77e-03	5.04e-03	0.0	30,2,0	1.47e-04	2.51e-03	4.42e-03	2,40,43	0.0	0	0.74	0.04	0.96
	2.41e-03	1.78e-03	0.0	44,43,0	1.47e-04	5.59e-03	2.46e-03	2,44,44	0.0	0	1.00	0.07	0.93
3193	3.02e-03	1.88e-03	0.0	46,45,0	2.74e-05	3.33e-03	2.70e-03	38,46,43	0.0	0	0.74	0.04	0.96
	3.38e-03	1.82e-03	0.0	44,45,0	2.68e-05	7.12e-03	2.31e-03	38,44,43	0.0	0	1.00	0.07	0.93
3194	4.13e-03	3.39e-03	0.0	45,44,0	2.74e-05	6.49e-03	6.67e-03	38,45,44	0.0	0	0.74	0.04	0.96
	3.38e-03	1.82e-03	0.0	44,45,0	2.68e-05	7.12e-03	2.31e-03	38,44,43	0.0	0	1.00	0.07	0.93
3195	5.22e-03	4.14e-03	0.0	45,44,0	1.86e-05	7.98e-03	8.11e-03	38,45,44	0.0	0	0.74	0.04	0.96
	2.81e-03	6.82e-04	0.0	38,45,0	1.76e-05	4.72e-03	9.13e-04	38,44,43	0.0	0	1.00	0.07	0.93
3196	5.45e-03	4.26e-03	0.0	45,44,0	9.31e-06	8.23e-03	8.32e-03	38,45,44	0.0	0	0.74	0.04	0.96
	2.87e-03	3.08e-04	0.0	2,45,0	8.43e-06	4.06e-03	2.43e-04	38,38,45	0.0	0	1.00	0.07	0.93
3197	5.45e-03	4.31e-03	0.0	45,44,0	4.92e-06	8.23e-03	8.33e-03	44,45,44	0.0	0	0.74	0.04	0.96
	2.94e-03	0.0	0.0	2,0,0	3.52e-06	3.58e-03	1.96e-04	38,2,43	0.0	0	1.00	0.07	0.93
3198	5.41e-03	4.42e-03	0.0	45,44,0	3.32e-06	8.17e-03	8.40e-03	46,45,44	0.0	0	0.74	0.04	0.96
	2.94e-03	0.0	0.0	2,0,0	2.38e-06	3.58e-03	1.22e-04	28,2,44	0.0	0	1.00	0.07	0.93
3199	5.44e-03	4.48e-03	0.0	45,44,0	1.50e-05	8.24e-03	8.48e-03	28,45,44	0.0	0	0.74	0.04	0.96
	2.75e-03	7.16e-06	0.0	2,13,0	1.47e-05	3.42e-03	3.57e-04	2,2,44	0.0	0	1.00	0.07	0.93
3200	5.44e-03	4.48e-03	0.0	45,44,0	3.84e-05	8.24e-03	8.48e-03	2,45,44	0.0	0	0.74	0.04	0.96
	2.46e-03	8.09e-04	0.0	38,43,0	3.83e-05	4.26e-03	4.57e-04	2,44,43	0.0	0	1.00	0.07	0.93
3201	5.28e-03	4.23e-03	0.0	45,44,0	6.93e-05	8.07e-03	8.19e-03	2,45,44	0.0	0	0.74	0.04	0.96
	2.65e-03	2.14e-03	0.0	44,44,0	6.91e-05	6.23e-03	1.20e-03	2,44,44	0.0	0	1.00	0.07	0.93
3202	3.79e-03	5.04e-03	0.0	45,2,0	1.47e-04	6.06e-03	6.33e-03	2,45,43	0.0	0	0.74	0.04	0.96
	2.65e-03	2.14e-03	0.0	44,44,0	1.47e-04	6.23e-03	2.46e-03	2,44,44	0.0	0	1.00	0.07	0.93
3203	0.0	5.04e-03	0.0	0,2,0	1.47e-04	1.28e-03	3.66e-03	2,45,34	0.0	0	0.0	0.0	0.0
	8.69e-04	1.66e-03	0.0	45,38,0	1.47e-04	2.50e-03	2.46e-03	2,46,44	0.0	0	1.00	0.07	0.93

Nodo V. 127 V. 128 V. 545 V. 129 V. 130 V. 131 V. D.26
5.45e-03 5.47e-03 0.0 1.86e-04 8.71e-03 0.01 0.0

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
122	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.12	776.8	2	0.07	762.4	28	0.02	-454.1	-1.630e+04	30

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2876	8.67e-03	0.01	0.0	45,44,0	4.57e-05	0.01	0.01	44,45,44	0.0	0	0.74	0.04	0.96
	2.40e-03	2.15e-03	0.0	45,43,0	3.19e-05	8.06e-03	7.43e-03	44,45,43			1.00	0.07	0.93
2877	8.67e-03	0.01	0.0	45,44,0	1.14e-04	0.01	0.01	38,45,44	0.0	0	0.74	0.04	0.96
	9.31e-03	7.00e-03	0.0	44,44,0	1.11e-04	0.02	7.43e-03	38,44,43			1.00	0.07	0.93
2878	3.80e-03	2.88e-03	0.0	30,43,0	2.61e-04	5.04e-03	3.64e-03	2,30,45	0.0	0	0.74	0.04	0.96
	9.31e-03	7.00e-03	0.0	44,44,0	2.60e-04	0.02	5.74e-03	2,44,44			1.00	0.07	0.93
2879	3.80e-03	2.59e-03	0.0	30,44,0	2.61e-04	5.04e-03	4.58e-03	2,30,45	0.0	0	0.74	0.04	0.96
	7.36e-03	5.21e-03	0.0	44,44,0	2.60e-04	0.02	5.74e-03	2,44,44			1.00	0.07	0.93
2880	4.43e-03	4.74e-03	0.0	45,44,0	1.63e-04	8.05e-03	8.99e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.77e-03	1.22e-03	0.0	44,44,0	1.62e-04	4.42e-03	4.06e-03	2,44,44			1.00	0.07	0.93
2881	4.61e-03	5.27e-03	0.0	45,44,0	1.41e-04	8.05e-03	9.00e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.77e-03	1.52e-03	0.0	44,44,0	1.40e-04	4.00e-03	9.87e-04	2,46,44			1.00	0.07	0.93
2882	4.61e-03	5.27e-03	0.0	45,44,0	7.93e-05	7.65e-03	9.00e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.68e-03	1.52e-03	0.0	46,44,0	7.88e-05	4.00e-03	9.87e-04	2,46,44			1.00	0.07	0.93
3145	9.75e-03	0.01	0.0	45,44,0	4.57e-05	0.01	0.01	44,45,44	0.0	0	0.74	0.04	0.96
	3.19e-03	2.60e-03	0.0	45,44,0	3.19e-05	8.06e-03	7.43e-03	44,45,43			1.00	0.07	0.93
3146	9.75e-03	0.01	0.0	45,44,0	1.14e-04	0.01	0.01	38,45,44	0.0	0	0.74	0.04	0.96
	9.31e-03	8.10e-03	0.0	44,44,0	1.11e-04	0.02	7.43e-03	38,44,43			1.00	0.07	0.93
3147	3.80e-03	2.88e-03	0.0	30,43,0	2.61e-04	5.04e-03	3.64e-03	2,30,45	0.0	0	0.74	0.04	0.96
	9.31e-03	8.10e-03	0.0	44,44,0	2.60e-04	0.02	9.73e-03	2,44,44			1.00	0.07	0.93
3148	3.80e-03	2.59e-03	0.0	30,44,0	2.61e-04	5.04e-03	4.58e-03	2,30,45	0.0	0	0.74	0.04	0.96
	7.36e-03	7.24e-03	0.0	44,44,0	2.60e-04	0.02	9.73e-03	2,44,44			1.00	0.07	0.93
3149	4.71e-03	4.74e-03	0.0	45,44,0	1.63e-04	8.05e-03	8.99e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.77e-03	2.18e-03	0.0	44,38,0	1.62e-04	4.42e-03	4.57e-03	2,44,44			1.00	0.07	0.93
3150	5.34e-03	5.27e-03	0.0	45,44,0	1.41e-04	8.05e-03	9.00e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.77e-03	2.18e-03	0.0	44,38,0	1.40e-04	4.09e-03	9.87e-04	2,45,44			1.00	0.07	0.93
3151	5.34e-03	5.27e-03	0.0	45,44,0	7.93e-05	7.90e-03	9.00e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.68e-03	1.52e-03	0.0	46,44,0	7.88e-05	4.00e-03	9.87e-04	2,46,44			1.00	0.07	0.93
3213	9.75e-03	8.28e-03	0.0	45,44,0	3.28e-05	0.01	0.01	44,45,45	0.0	0	0.74	0.04	0.96
	3.19e-03	2.60e-03	0.0	45,44,0	2.32e-05	7.77e-03	6.79e-03	44,45,44			1.00	0.07	0.93
3214	9.75e-03	8.28e-03	0.0	45,44,0	7.28e-05	0.01	0.01	38,45,45	0.0	0	0.74	0.04	0.96
	8.32e-03	8.10e-03	0.0	45,44,0	7.04e-05	0.02	6.79e-03	38,45,44			1.00	0.07	0.93
3215	1.34e-03	2.26e-03	0.0	45,34,0	1.62e-04	1.83e-03	2.80e-03	2,45,34	0.0	0	0.74	0.04	0.96
	8.32e-03	8.10e-03	0.0	45,44,0	1.62e-04	0.02	9.73e-03	2,45,44			1.00	0.07	0.93
3216	2.07e-03	2.11e-03	0.0	45,1,0	1.62e-04	3.48e-03	3.64e-03	2,45,45	0.0	0	0.74	0.04	0.96
	6.05e-03	7.24e-03	0.0	45,44,0	1.62e-04	0.02	9.73e-03	2,44,44			1.00	0.07	0.93
3217	4.71e-03	3.78e-03	0.0	45,44,0	1.54e-04	7.43e-03	7.50e-03	2,45,43	0.0	0	0.74	0.04	0.96
	1.71e-03	2.18e-03	0.0	45,38,0	1.54e-04	4.29e-03	4.57e-03	2,44,44			1.00	0.07	0.93
3218	5.34e-03	4.39e-03	0.0	45,44,0	1.20e-04	7.90e-03	8.14e-03	2,45,44	0.0	0	0.74	0.04	0.96
	1.71e-03	2.18e-03	0.0	45,38,0	1.20e-04	4.09e-03	9.52e-04	2,45,44			1.00	0.07	0.93
3219	5.34e-03	4.39e-03	0.0	45,44,0	7.02e-05	7.90e-03	8.14e-03	2,45,44	0.0	0	0.74	0.04	0.96
	7.35e-04	9.71e-04	0.0	46,24,0	7.00e-05	1.63e-03	3.11e-04	2,44,18			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	9.75e-03	0.01	0.0		2.61e-04	0.02	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
123	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.09	1182.8	44	0.12	243.5	44	0.07	-4494.0	1.285e+05	44

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
318	0.0	0.02	0.0	0,2,0	6.36e-05	8.56e-06	8.46e-03	44,2,2	0.0	0	0.0	0.0	0.0
	5.40e-05	9.69e-05	0.0	43,18,0	6.34e-05	7.62e-05	3.42e-05	44,43,18			1.00	0.07	0.93
326	0.0	0.02	0.0	0,2,0	6.44e-05	3.28e-05	8.46e-03	44,2,2	0.0	0	0.0	0.0	0.0
	5.40e-05	1.43e-04	0.0	43,18,0	6.42e-05	7.62e-05	7.79e-05	44,43,2			1.00	0.07	0.93
334	0.0	0.02	0.0	0,2,0	6.51e-05	7.33e-05	8.74e-03	44,2,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



342	4.85e-05	1.47e-04	0.0	43,18,0	6.48e-05	8.61e-05	1.25e-04	44,2,2	0.0	0	1.00	0.07	0.93
	0.0	0.03	0.0	0,2,0	6.74e-05	7.60e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	3.40e-04	5.30e-04	0.0	35,38,0	6.72e-05	5.26e-04	3.16e-04	44,34,2	0.0	0	1.00	0.07	0.93
350	0.0	0.03	0.0	0,2,0	6.74e-05	7.60e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	3.40e-04	1.87e-03	0.0	35,2,0	6.72e-05	6.62e-04	1.12e-03	44,8,8	0.0	0	1.00	0.07	0.93
367	0.0	0.01	0.0	0,2,0	2.99e-05	4.80e-05	3.74e-03	44,8,2	0.0	0	0.0	0.0	0.0
	0.0	1.87e-03	0.0	0,2,0	2.98e-05	6.62e-04	1.12e-03	44,8,8	0.0	0	0.0	0.0	0.0
453	0.0	0.02	0.0	0,2,0	6.36e-05	1.24e-05	8.46e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.60e-04	1.70e-04	0.0	1,18,0	6.34e-05	3.89e-04	7.60e-05	44,2,18	0.0	0	1.00	0.07	0.93
455	0.0	0.02	0.0	0,2,0	6.45e-05	3.28e-05	8.46e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.60e-04	3.21e-04	0.0	1,18,0	6.43e-05	3.89e-04	1.29e-04	44,2,18	0.0	0	1.00	0.07	0.93
457	0.0	0.02	0.0	0,2,0	6.61e-05	7.33e-05	8.74e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.51e-04	3.21e-04	0.0	43,18,0	6.58e-05	3.66e-04	1.80e-04	44,2,2	0.0	0	1.00	0.07	0.93
459	0.0	0.03	0.0	0,2,0	7.12e-05	7.60e-05	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	4.72e-04	5.30e-04	0.0	8,38,0	7.09e-05	9.45e-04	3.16e-04	44,8,2	0.0	0	1.00	0.07	0.93
461	0.0	0.03	0.0	0,2,0	7.12e-05	1.17e-04	0.01	44,2,2	0.0	0	0.0	0.0	0.0
	4.72e-04	1.87e-03	0.0	8,2,0	7.09e-05	9.45e-04	1.12e-03	44,8,8	0.0	0	1.00	0.07	0.93
467	0.0	0.02	0.0	0,2,0	4.13e-05	1.17e-04	6.19e-03	44,2,2	0.0	0	0.0	0.0	0.0
	5.82e-05	1.87e-03	0.0	45,2,0	4.10e-05	6.62e-04	1.12e-03	44,8,8	0.0	0	1.00	0.07	0.93
1137	0.0	0.02	0.0	0,2,0	6.18e-05	1.24e-05	8.26e-03	44,2,2	0.0	0	0.0	0.0	0.0
	3.18e-04	1.83e-04	0.0	28,38,0	6.16e-05	6.19e-04	8.59e-05	44,28,38	0.0	0	1.00	0.07	0.93
1145	0.0	0.02	0.0	0,2,0	6.45e-05	3.69e-05	8.26e-03	44,8,2	0.0	0	0.0	0.0	0.0
	3.18e-04	4.39e-04	0.0	28,38,0	6.43e-05	7.76e-04	1.90e-04	44,2,2	0.0	0	1.00	0.07	0.93
1153	0.0	0.02	0.0	0,2,0	6.61e-05	5.44e-05	8.52e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.56e-04	5.68e-04	0.0	2,2,0	6.59e-05	1.22e-03	2.57e-04	44,2,2	0.0	0	1.00	0.07	0.93
1161	0.0	0.03	0.0	0,2,0	7.12e-05	1.38e-04	9.19e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.72e-04	5.68e-04	0.0	8,2,0	7.09e-05	1.22e-03	4.03e-04	44,2,2	0.0	0	1.00	0.07	0.93
1169	0.0	0.03	0.0	0,2,0	7.12e-05	2.02e-04	9.19e-03	44,8,2	0.0	0	0.0	0.0	0.0
	4.72e-04	1.09e-03	0.0	8,2,0	7.09e-05	9.45e-04	5.66e-04	44,8,8	0.0	0	1.00	0.07	0.93
1186	0.0	0.02	0.0	0,2,0	4.13e-05	2.02e-04	7.83e-03	44,8,2	0.0	0	0.0	0.0	0.0
	5.82e-05	1.09e-03	0.0	45,2,0	4.10e-05	3.31e-04	5.66e-04	44,8,8	0.0	0	1.00	0.07	0.93
1573	0.0	0.02	0.0	0,2,0	5.72e-05	1.17e-05	7.90e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.55e-04	5.52e-04	0.0	34,44,0	5.71e-05	6.40e-04	1.69e-04	44,34,44	0.0	0	1.00	0.07	0.93
1580	0.0	0.02	0.0	0,2,0	6.44e-05	3.69e-05	7.90e-03	44,8,2	0.0	0	0.0	0.0	0.0
	4.55e-04	6.76e-04	0.0	34,38,0	6.43e-05	7.76e-04	2.35e-04	44,2,38	0.0	0	1.00	0.07	0.93
1585	0.0	0.02	0.0	0,2,0	7.02e-05	7.87e-05	8.22e-03	44,2,2	0.0	0	0.0	0.0	0.0
	4.56e-04	9.91e-04	0.0	2,38,0	6.99e-05	1.22e-03	4.46e-04	44,2,2	0.0	0	1.00	0.07	0.93
1588	0.0	0.02	0.0	0,2,0	7.02e-05	1.50e-04	8.74e-03	44,2,2	0.0	0	0.0	0.0	0.0
	9.54e-04	1.87e-03	0.0	28,2,0	6.99e-05	2.91e-03	8.16e-04	44,2,2	0.0	0	1.00	0.07	0.93
1592	0.0	0.02	0.0	0,2,0	6.45e-05	5.47e-04	9.24e-03	44,2,2	0.0	0	0.0	0.0	0.0
	9.54e-04	2.35e-03	0.0	28,2,0	6.41e-05	2.91e-03	1.92e-03	44,2,2	0.0	0	1.00	0.07	0.93
1642	0.0	0.02	0.0	0,2,0	3.03e-05	5.47e-04	9.24e-03	44,2,2	0.0	0	0.0	0.0	0.0
	9.50e-04	2.35e-03	0.0	44,2,0	2.99e-05	2.71e-03	1.92e-03	44,38,2	0.0	0	1.00	0.07	0.93
2171	0.0	0.02	0.0	0,2,0	5.31e-05	1.84e-05	7.49e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.18e-03	1.46e-03	0.0	36,43,0	5.30e-05	1.42e-03	4.21e-04	44,36,43	0.0	0	1.00	0.07	0.93
2179	0.0	0.02	0.0	0,2,0	6.69e-05	3.09e-05	7.49e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.18e-03	1.46e-03	0.0	36,43,0	6.68e-05	1.42e-03	4.21e-04	44,36,43	0.0	0	1.00	0.07	0.93
2187	0.0	0.02	0.0	0,2,0	7.65e-05	8.06e-05	7.83e-03	44,2,2	0.0	0	0.0	0.0	0.0
	9.71e-04	1.48e-03	0.0	36,44,0	7.61e-05	1.19e-03	4.52e-04	44,34,44	0.0	0	1.00	0.07	0.93
2195	0.0	0.02	0.0	0,2,0	7.96e-05	1.53e-04	8.55e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.12e-03	2.59e-03	0.0	33,38,0	7.87e-05	2.91e-03	9.45e-04	44,2,38	0.0	0	1.00	0.07	0.93
2203	0.0	0.02	0.0	0,2,0	7.96e-05	7.55e-04	9.24e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.12e-03	2.60e-03	0.0	33,38,0	7.87e-05	2.96e-03	3.53e-03	44,2,2	0.0	0	1.00	0.07	0.93
2240	0.0	0.02	0.0	0,2,0	5.14e-05	7.55e-04	9.24e-03	44,2,2	0.0	0	0.0	0.0	0.0
	9.50e-04	2.60e-03	0.0	44,38,0	4.90e-05	2.96e-03	3.53e-03	44,2,2	0.0	0	1.00	0.07	0.93
2532	0.0	0.02	0.0	0,2,0	5.14e-05	7.55e-04	7.94e-03	44,2,2	0.0	0	0.0	0.0	0.0
	6.53e-04	2.60e-03	0.0	35,38,0	4.90e-05	2.96e-03	3.53e-03	44,2,2	0.0	0	1.00	0.07	0.93
2567	0.0	0.02	0.0	0,2,0	7.96e-05	7.55e-04	8.02e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.12e-03	2.60e-03	0.0	33,38,0	7.87e-05	2.96e-03	3.53e-03	44,2,2	0.0	0	1.00	0.07	0.93
2585	0.0	0.02	0.0	0,2,0	7.96e-05	1.53e-04	8.02e-03	44,2,2	0.0	0	0.0	0.0	0.0
	1.12e-03	2.59e-03	0.0	33,38,0	7.87e-05	1.90e-03	9.45e-04	44,34,38	0.0	0	1.00	0.07	0.93
2608	0.0	0.02	0.0	0,2,0	7.65e-05	8.06e-05	7.56e-03	44,2,2	0.0	0	0.0	0.0	0.0
	9.71e-04	1.48e-03	0.0	36,44,0	7.61e-05	1.19e-03	4.52e-04	44,34,44	0.0	0	1.00	0.07	0.93
2627	0.0	0.02	0.0	0,2,0	6.69e-05	3.09e-05	7.16e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.18e-03	1.46e-03	0.0	36,43,0	6.68e-05	1.42e-03	4.21e-04	44,36,43	0.0	0	1.00	0.07	0.93
2643	0.0	0.02	0.0	0,2,0	4.94e-05	1.84e-05	7.16e-03	44,8,2	0.0	0	0.0	0.0	0.0
	1.18e-03	1.46e-03	0.0	36,43,0	4.93e-05	1.42e-03	4.21e-04	44,36,43	0.0	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	1.18e-03	0.03	0.0		7.96e-05	2.96e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
124	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb			
ok	0.10	-597.8	26	0.03	265.6	8	0.10	-4437.2	-1.712e+05	8			
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
278	0.0	0.01	0.0	0,2,0	1.24e-05	1.55e-04	3.76e-03	26,28,2	0.0	0	0.0	0.0	0.0
	1.07e-04	5.13e-04	0.0	13,18,0	1.22e-05	2.41e-04	3.61e-04	26,2,18			1.00	0.07	0.93
279	0.0	0.01	0.0	0,2,0	1.46e-05	1.55e-04	3.76e-03	26,28,2	0.0	0	0.0	0.0	0.0
	1.28e-04	8.99e-04	0.0	11,18,0	1.46e-05	6.22e-04	4.88e-04	26,28,2			1.00	0.07	0.93
280	0.0	0.01	0.0	0,2,0	1.99e-05	1.41e-03	6.20e-03	24,28,28	0.0	0	0.0	0.0	0.0
	4.55e-04	8.99e-04	0.0	45,18,0	1.94e-05	1.98e-03	2.08e-03	24,28,28			1.00	0.07	0.93
281	0.0	0.02	0.0	0,2,0	1.99e-05	1.90e-03	8.36e-03	24,28,2	0.0	0	0.0	0.0	0.0
	4.55e-04	9.31e-04	0.0	45,38,0	1.94e-05	3.88e-03	3.98e-03	24,45,45			1.00	0.07	0.93
282	0.0	0.02	0.0	0,38,0	2.43e-05	1.90e-03	9.35e-03	24,28,38	0.0	0	0.0	0.0	0.0
	1.29e-03	1.67e-03	0.0	45,44,0	2.42e-05	3.88e-03	3.98e-03	24,45,45			1.00	0.07	0.93
283	0.0	0.02	0.0	0,38,0	2.43e-05	7.41e-04	9.35e-03	24,44,38	0.0	0	0.0	0.0	0.0
	1.29e-03	1.67e-03	0.0	45,44,0	2.42e-05	3.54e-03	2.40e-03	24,45,46			1.00	0.07	0.93
725	0.0	0.01	0.0	0,2,0	1.24e-05	1.55e-04	3.76e-03	26,28,2	0.0	0	0.0	0.0	0.0
	1.07e-04	1.29e-03	0.0	13,18,0	1.22e-05	2.42e-04	5.60e-04	26,2,18			1.00	0.07	0.93
726	0.0	0.01	0.0	0,2,0	1.46e-05	1.55e-04	3.76e-03	26,28,2	0.0	0	0.0	0.0	0.0
	2.46e-04	2.08e-03	0.0	13,18,0	1.46e-05	6.22e-04	8.01e-04	26,28,18			1.00	0.07	0.93
727	0.0	0.01	0.0	0,2,0	2.09e-05	1.41e-03	6.20e-03	24,28,28	0.0	0	0.0	0.0	0.0
	1.04e-03	2.38e-03	0.0	45,38,0	2.05e-05	3.07e-03	2.08e-03	24,44,28			1.00	0.07	0.93
728	0.0	0.02	0.0	0,2,0	2.09e-05	1.90e-03	8.36e-03	24,28,2	0.0	0	0.0	0.0	0.0
	1.70e-03	2.38e-03	0.0	45,38,0	2.05e-05	4.56e-03	3.98e-03	24,45,45			1.00	0.07	0.93
729	0.0	0.02	0.0	0,38,0	2.84e-05	1.90e-03	9.35e-03	18,28,38	0.0	0	0.0	0.0	0.0
	3.39e-03	2.69e-03	0.0	45,45,0	2.70e-05	8.02e-03	3.98e-03	18,45,45			1.00	0.07	0.93
730	0.0	0.02	0.0	0,38,0	2.84e-05	7.41e-04	9.35e-03	18,44,38	0.0	0	0.0	0.0	0.0
	3.39e-03	2.69e-03	0.0	45,45,0	2.70e-05	8.02e-03	2.89e-03	18,45,45			1.00	0.07	0.93
1097	0.0	9.48e-03	0.0	0,2,0	1.02e-05	8.95e-05	3.50e-03	26,28,2	0.0	0	0.0	0.0	0.0
	4.83e-05	2.94e-03	0.0	13,38,0	1.01e-05	2.42e-04	9.07e-04	12,2,38			1.00	0.07	0.93
1098	0.0	9.48e-03	0.0	0,2,0	1.41e-05	2.12e-04	3.50e-03	26,28,2	0.0	0	0.0	0.0	0.0
	2.46e-04	3.13e-03	0.0	13,38,0	1.39e-05	1.08e-03	9.91e-04	26,45,38			1.00	0.07	0.93
1099	0.0	0.01	0.0	0,2,0	2.19e-05	1.06e-03	5.47e-03	18,28,2	0.0	0	0.0	0.0	0.0
	1.04e-03	3.34e-03	0.0	45,18,0	2.13e-05	3.07e-03	2.14e-03	24,44,2			1.00	0.07	0.93
1100	0.0	0.02	0.0	0,2,0	2.63e-05	2.46e-03	7.63e-03	18,2,2	0.0	0	0.0	0.0	0.0
	4.65e-03	7.17e-03	0.0	2,18,0	2.51e-05	0.01	5.44e-03	18,2,2			1.00	0.07	0.93
1101	0.0	0.02	0.0	0,2,0	5.72e-05	2.46e-03	8.87e-03	18,2,2	0.0	0	0.0	0.0	0.0
	7.78e-03	7.17e-03	0.0	2,18,0	5.44e-05	0.02	6.99e-03	18,2,2			1.00	0.07	0.93
1102	0.0	0.02	0.0	0,2,0	5.72e-05	4.27e-04	8.87e-03	18,28,2	0.0	0	0.0	0.0	0.0
	7.78e-03	7.15e-03	0.0	2,18,0	5.44e-05	0.02	6.99e-03	18,2,2			1.00	0.07	0.93
1485	0.0	8.27e-03	0.0	0,2,0	1.01e-05	4.80e-05	3.05e-03	12,18,2	0.0	0	0.0	0.0	0.0
	0.0	5.25e-03	0.0	0,18,0	1.01e-05	1.71e-04	1.61e-03	12,2,18			0.0	0.0	0.0
1486	0.0	8.27e-03	0.0	0,2,0	1.10e-05	2.12e-04	3.12e-03	24,28,2	0.0	0	0.0	0.0	0.0
	7.12e-05	5.98e-03	0.0	13,18,0	1.08e-05	1.08e-03	1.98e-03	24,45,18			1.00	0.07	0.93
1487	0.0	0.01	0.0	0,2,0	2.95e-05	6.34e-04	4.29e-03	18,40,2	0.0	0	0.0	0.0	0.0
	5.95e-04	7.76e-03	0.0	13,18,0	2.86e-05	1.40e-03	2.34e-03	18,2,18			1.00	0.07	0.93
1488	0.01	0.04	0.0	2,2,0	2.26e-04	0.02	0.04	2,2,2	0.0	0	0.96	0.03	0.97
	7.78e-03	7.17e-03	0.0	2,18,0	1.92e-04	0.02	8.15e-03	18,2,2			1.00	0.07	0.93
1523	0.01	0.04	0.0	2,2,0	2.26e-04	0.02	0.04	2,2,2	0.0	0	0.96	0.03	0.97
	7.78e-03	7.15e-03	0.0	2,18,0	1.92e-04	0.02	8.15e-03	18,2,2			1.00	0.07	0.93
1621	1.15e-03	0.02	0.0	20,2,0	6.51e-05	2.64e-03	9.34e-03	18,44,38	0.0	0	0.96	0.03	0.97
	4.65e-03	7.76e-03	0.0	2,18,0	6.12e-05	0.01	5.97e-03	18,2,2			1.00	0.07	0.93
2121	0.0	6.42e-03	0.0	0,2,0	2.48e-05	1.63e-04	2.38e-03	8,28,2	0.0	0	0.0	0.0	0.0
	7.00e-04	5.25e-03	0.0	13,18,0	2.42e-05	8.62e-04	1.61e-03	8,13,18			1.00	0.07	0.93
2122	0.0	6.50e-03	0.0	0,2,0	2.48e-05	5.16e-04	2.65e-03	8,2,2	0.0	0	0.0	0.0	0.0
	7.85e-04	5.98e-03	0.0	13,18,0	2.42e-05	1.17e-03	2.06e-03	8,13,18			1.00	0.07	0.93
2123	0.0	8.86e-03	0.0	0,2,0	2.95e-05	1.17e-03	3.75e-03	18,2,2	0.0	0	0.0	0.0	0.0
	1.10e-03	8.37e-03	0.0	11,18,0	2.86e-05	5.21e-03	3.23e-03	18,8,18			1.00	0.07	0.93
2124	3.68e-03	0.02	0.0	2,2,0	6.51e-05	6.58e-03	0.01	18,2,2	0.0	0	0.96	0.03	0.97
	1.26e-03	8.38e-03	0.0	10,2,0	6.12e-05	8.52e-03	8.00e-03	18,2,2			1.00	0.07	0.93
2125	0.02	0.04	0.0	2,2,0	2.26e-04	0.03	0.04	2,2,2	0.0	0	0.96	0.03	0.97
	1.26e-03	8.38e-03	0.0	10,2,0	1.92e-04	0.01	0.01	18,2,2			1.00	0.07	0.93
2126	0.02	0.04	0.0	2,2,0	2.26e-04	0.03	0.04	2,2,2	0.0	0	0.96	0.03	0.97
	8.63e-04	6.80e-03	0.0	45,18,0	1.92e-04	0.01	0.01	18,2,2			1.00	0.07	0.93
2882	0.0	4.45e-03	0.0	0,2,0	2.48e-05	1.63e-04	1.78e-03	8,28,2	0.0	0	0.0	0.0	0.0
	7.00e-04	3.08e-03	0.0	13,18,0	2.42e-05	8.62e-04	1.18e-03	8,13,18			1.00	0.07	0.93
2883	0.0	4.82e-03	0.0	0,2,0	2.48e-05	5.16e-04	2.35e-03	8,2,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



	7.85e-04	3.98e-03	0.0	13,18,0	2.42e-05	1.17e-03	2.06e-03	8,13,18			1.00	0.07	0.93
2884	0.0	5.46e-03	0.0	0,2,0	1.30e-05	1.17e-03	3.15e-03	8,2,2	0.0	0	0.0	0.0	0.0
	1.10e-03	8.37e-03	0.0	11,18,0	1.25e-05	5.21e-03	3.23e-03	8,8,18			1.00	0.07	0.93
2885	3.68e-03	0.01	0.0	2,2,0	3.13e-05	6.58e-03	0.01	2,2,2	0.0	0	0.96	0.03	0.97
	1.26e-03	8.38e-03	0.0	10,2,0	2.86e-05	8.52e-03	8.00e-03	2,2,2			1.00	0.07	0.93
2886	0.02	0.03	0.0	2,2,0	5.79e-05	0.03	0.03	2,2,2	0.0	0	0.96	0.03	0.97
	1.26e-03	8.38e-03	0.0	10,2,0	3.82e-05	0.01	0.01	38,2,2			1.00	0.07	0.93
2887	0.02	0.03	0.0	2,2,0	5.79e-05	0.03	0.03	2,2,2	0.0	0	0.96	0.03	0.97
	4.48e-05	2.86e-03	0.0	13,2,0	3.82e-05	0.01	0.01	38,2,2			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.02	0.04	0.0		2.26e-04	0.03	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
125	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		daN			daN			daN	daN cm	
ok	0.09	-1762.9	34	0.29	-369.7	2	0.07	-7799.4	-2.843e+05	34

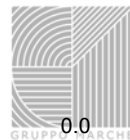
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
13	0.0	9.44e-03	0.0	0,38,0	1.37e-04	2.64e-04	3.59e-03	33,12,38	0.0	0	0.0	0.0	0.0
	2.77e-03	5.58e-03	0.0	45,34,0	1.37e-04	3.38e-03	2.00e-03	33,45,34			1.00	0.07	0.93
61	0.0	0.02	0.0	0,2,0	1.37e-04	2.64e-04	8.57e-03	33,12,2	0.0	0	0.0	0.0	0.0
	3.08e-03	5.58e-03	0.0	44,34,0	1.37e-04	3.81e-03	2.00e-03	33,44,34			1.00	0.07	0.93
69	0.0	0.02	0.0	0,2,0	9.76e-05	9.75e-05	8.57e-03	34,12,2	0.0	0	0.0	0.0	0.0
	3.08e-03	3.65e-03	0.0	44,33,0	9.73e-05	3.81e-03	1.18e-03	34,44,34			1.00	0.07	0.93
78	0.0	0.02	0.0	0,2,0	6.56e-05	9.75e-05	8.02e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.27e-03	1.86e-03	0.0	46,33,0	6.52e-05	1.55e-03	6.15e-04	34,44,34			1.00	0.07	0.93
86	0.0	0.02	0.0	0,2,0	5.21e-05	3.14e-05	7.90e-03	34,12,2	0.0	0	0.0	0.0	0.0
	6.73e-04	1.11e-03	0.0	46,33,0	5.18e-05	8.40e-04	3.39e-04	34,46,34			1.00	0.07	0.93
94	0.0	0.02	0.0	0,2,0	4.39e-05	1.22e-05	8.14e-03	34,8,2	0.0	0	0.0	0.0	0.0
	4.11e-04	7.58e-04	0.0	45,34,0	4.38e-05	5.11e-04	2.21e-04	34,45,34			1.00	0.07	0.93
102	0.0	0.02	0.0	0,2,0	4.07e-05	1.25e-05	8.87e-03	46,12,2	0.0	0	0.0	0.0	0.0
	4.57e-04	6.11e-04	0.0	45,34,0	4.07e-05	5.42e-04	1.76e-04	46,45,34			1.00	0.07	0.93
109	0.0	0.03	0.0	0,28,0	3.88e-05	1.25e-05	0.01	46,12,28	0.0	0	0.0	0.0	0.0
	5.30e-04	5.67e-04	0.0	45,34,0	3.88e-05	6.25e-04	1.61e-04	46,45,34			1.00	0.07	0.93
116	0.0	0.03	0.0	0,28,0	2.84e-05	9.69e-06	0.01	44,12,28	0.0	0	0.0	0.0	0.0
	5.30e-04	4.43e-04	0.0	45,34,0	2.83e-05	6.25e-04	1.27e-04	44,45,34			1.00	0.07	0.93
122	0.0	0.01	0.0	0,2,0	3.22e-05	1.06e-04	4.64e-03	28,8,2	0.0	0	0.0	0.0	0.0
	0.0	1.29e-03	0.0	0,38,0	3.19e-05	7.26e-05	4.16e-04	28,8,38			0.0	0.0	0.0
131	0.0	0.01	0.0	0,2,0	3.22e-05	1.06e-04	4.64e-03	28,8,2	0.0	0	0.0	0.0	0.0
	0.0	1.29e-03	0.0	0,38,0	3.19e-05	7.26e-05	4.16e-04	28,8,38			0.0	0.0	0.0
482	0.0	0.01	0.0	0,38,0	1.37e-04	2.80e-04	5.37e-03	33,12,38	0.0	0	0.0	0.0	0.0
	2.77e-03	5.58e-03	0.0	45,34,0	1.37e-04	3.38e-03	2.00e-03	33,45,34			1.00	0.07	0.93
530	0.0	0.02	0.0	0,2,0	1.37e-04	2.80e-04	8.57e-03	33,12,2	0.0	0	0.0	0.0	0.0
	3.08e-03	5.58e-03	0.0	44,34,0	1.37e-04	3.81e-03	2.00e-03	33,44,34			1.00	0.07	0.93
538	0.0	0.02	0.0	0,2,0	9.76e-05	9.75e-05	8.57e-03	34,12,2	0.0	0	0.0	0.0	0.0
	3.08e-03	3.65e-03	0.0	44,33,0	9.73e-05	3.81e-03	1.18e-03	34,44,34			1.00	0.07	0.93
547	0.0	0.02	0.0	0,2,0	6.56e-05	9.75e-05	8.02e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.43e-03	2.44e-03	0.0	44,33,0	6.52e-05	1.88e-03	7.54e-04	34,44,33			1.00	0.07	0.93
555	0.0	0.02	0.0	0,2,0	5.21e-05	3.14e-05	7.90e-03	34,12,2	0.0	0	0.0	0.0	0.0
	1.04e-03	2.04e-03	0.0	46,33,0	5.18e-05	1.41e-03	6.05e-04	34,44,33			1.00	0.07	0.93
563	0.0	0.02	0.0	0,2,0	4.39e-05	1.22e-05	8.14e-03	34,8,2	0.0	0	0.0	0.0	0.0
	6.87e-04	1.64e-03	0.0	45,34,0	4.38e-05	9.02e-04	4.87e-04	34,46,34			1.00	0.07	0.93
571	0.0	0.02	0.0	0,2,0	4.07e-05	1.25e-05	8.87e-03	46,12,2	0.0	0	0.0	0.0	0.0
	4.93e-04	1.32e-03	0.0	45,34,0	4.07e-05	6.25e-04	3.85e-04	46,45,34			1.00	0.07	0.93
578	0.0	0.03	0.0	0,28,0	4.03e-05	1.25e-05	0.01	44,12,28	0.0	0	0.0	0.0	0.0
	5.30e-04	9.74e-04	0.0	45,34,0	4.02e-05	6.25e-04	2.84e-04	44,45,34			1.00	0.07	0.93
585	0.0	0.03	0.0	0,28,0	2.84e-05	9.69e-06	0.01	44,12,28	0.0	0	0.0	0.0	0.0
	5.30e-04	4.43e-04	0.0	45,34,0	2.83e-05	6.25e-04	1.27e-04	44,45,34			1.00	0.07	0.93
591	0.0	0.02	0.0	0,2,0	3.22e-05	1.06e-04	6.70e-03	28,8,2	0.0	0	0.0	0.0	0.0
	3.21e-05	1.29e-03	0.0	34,38,0	3.19e-05	7.26e-05	4.16e-04	28,8,38			1.00	0.07	0.93
600	0.0	0.02	0.0	0,2,0	3.22e-05	1.06e-04	6.70e-03	28,8,2	0.0	0	0.0	0.0	0.0
	3.21e-05	1.29e-03	0.0	34,38,0	3.19e-05	7.26e-05	4.16e-04	28,8,38			1.00	0.07	0.93
844	0.0	0.02	0.0	0,2,0	5.93e-05	4.48e-04	6.74e-03	33,12,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



888	3.78e-03	5.78e-03	0.0	44,34,0	5.84e-05	5.04e-03	1.96e-03	33,44,34	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	5.93e-05	4.48e-04	7.80e-03	33,12,2			0.0	0.0	0.0
	3.78e-03	5.78e-03	0.0	44,34,0	5.84e-05	5.04e-03	1.96e-03	33,44,34			1.00	0.07	0.93
896	0.0	0.02	0.0	0,2,0	4.10e-05	8.48e-05	7.80e-03	34,12,2	0.0	0	0.0	0.0	0.0
	3.11e-03	4.47e-03	0.0	44,33,0	4.08e-05	4.32e-03	1.37e-03	34,44,33			1.00	0.07	0.93
905	0.0	0.02	0.0	0,2,0	3.83e-05	3.16e-05	7.78e-03	45,12,2	0.0	0	0.0	0.0	0.0
	2.14e-03	3.37e-03	0.0	44,33,0	3.83e-05	2.95e-03	1.02e-03	45,44,33			1.00	0.07	0.93
913	0.0	0.02	0.0	0,2,0	3.94e-05	2.20e-05	7.71e-03	45,12,2	0.0	0	0.0	0.0	0.0
	1.33e-03	2.54e-03	0.0	44,33,0	3.94e-05	1.85e-03	7.61e-04	45,44,33			1.00	0.07	0.93
921	0.0	0.02	0.0	0,2,0	3.99e-05	8.62e-06	7.92e-03	45,8,2	0.0	0	0.0	0.0	0.0
	6.87e-04	1.79e-03	0.0	45,33,0	3.98e-05	9.02e-04	5.34e-04	45,46,33			1.00	0.07	0.93
929	0.0	0.02	0.0	0,2,0	4.03e-05	8.62e-06	8.61e-03	44,8,2	0.0	0	0.0	0.0	0.0
	4.93e-04	1.32e-03	0.0	45,34,0	4.02e-05	6.25e-04	3.85e-04	44,45,34			1.00	0.07	0.93
936	0.0	0.03	0.0	0,2,0	4.03e-05	7.99e-06	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	3.83e-04	9.74e-04	0.0	35,34,0	4.02e-05	4.54e-04	2.84e-04	44,45,34			1.00	0.07	0.93
943	0.0	0.03	0.0	0,2,0	3.30e-05	5.62e-06	0.01	44,12,2	0.0	0	0.0	0.0	0.0
	3.83e-04	9.38e-04	0.0	35,44,0	3.28e-05	4.52e-04	2.72e-04	44,35,44			1.00	0.07	0.93
949	0.0	0.02	0.0	0,2,0	2.38e-05	1.11e-04	8.52e-03	28,8,2	0.0	0	0.0	0.0	0.0
	3.01e-04	2.05e-04	0.0	45,34,0	2.35e-05	3.55e-04	6.11e-05	28,45,34			1.00	0.07	0.93
958	0.0	0.02	0.0	0,2,0	2.38e-05	1.11e-04	8.52e-03	28,8,2	0.0	0	0.0	0.0	0.0
	3.01e-04	2.05e-04	0.0	45,34,0	2.35e-05	3.55e-04	6.11e-05	28,45,34			1.00	0.07	0.93
1253	0.0	0.02	0.0	0,2,0	5.93e-05	4.90e-04	6.74e-03	33,12,2	0.0	0	0.0	0.0	0.0
	3.78e-03	5.78e-03	0.0	44,34,0	5.84e-05	5.04e-03	1.96e-03	33,44,34			1.00	0.07	0.93
1298	0.0	0.02	0.0	0,2,0	5.93e-05	4.90e-04	7.42e-03	33,12,2	0.0	0	0.0	0.0	0.0
	3.78e-03	5.78e-03	0.0	44,34,0	5.84e-05	5.04e-03	1.96e-03	33,44,34			1.00	0.07	0.93
1305	0.0	0.02	0.0	0,2,0	4.10e-05	4.46e-05	7.57e-03	34,8,2	0.0	0	0.0	0.0	0.0
	3.11e-03	4.47e-03	0.0	44,33,0	4.08e-05	4.32e-03	1.37e-03	34,44,33			1.00	0.07	0.93
1314	0.0	0.02	0.0	0,2,0	3.15e-05	3.16e-05	7.57e-03	45,12,2	0.0	0	0.0	0.0	0.0
	2.36e-03	3.37e-03	0.0	44,33,0	3.14e-05	3.13e-03	1.02e-03	45,44,33			1.00	0.07	0.93
1321	0.0	0.02	0.0	0,2,0	3.22e-05	2.20e-05	7.48e-03	45,12,2	0.0	0	0.0	0.0	0.0
	1.65e-03	2.54e-03	0.0	44,33,0	3.22e-05	2.17e-03	7.61e-04	45,44,33			1.00	0.07	0.93
1328	0.0	0.02	0.0	0,2,0	3.29e-05	8.13e-06	7.61e-03	45,12,2	0.0	0	0.0	0.0	0.0
	1.43e-03	1.79e-03	0.0	2,33,0	3.29e-05	1.76e-03	5.34e-04	45,2,33			1.00	0.07	0.93
1341	0.0	0.02	0.0	0,2,0	3.36e-05	8.13e-06	8.18e-03	44,12,2	0.0	0	0.0	0.0	0.0
	2.25e-03	1.09e-03	0.0	2,33,0	3.36e-05	2.68e-03	3.23e-04	46,2,33			1.00	0.07	0.93
1350	0.0	0.03	0.0	0,2,0	4.43e-05	6.88e-06	0.01	38,12,2	0.0	0	0.0	0.0	0.0
	3.91e-03	9.38e-04	0.0	2,44,0	4.41e-05	4.63e-03	2.72e-04	38,2,44			1.00	0.07	0.93
1358	0.0	0.03	0.0	0,2,0	4.43e-05	6.88e-06	0.01	38,12,2	0.0	0	0.0	0.0	0.0
	4.48e-03	9.38e-04	0.0	2,44,0	4.41e-05	5.30e-03	2.72e-04	38,2,44			1.00	0.07	0.93
1366	0.0	0.02	0.0	0,2,0	9.32e-05	1.11e-04	8.52e-03	2,8,2	0.0	0	0.0	0.0	0.0
	4.48e-03	4.05e-04	0.0	2,45,0	9.30e-05	5.30e-03	1.18e-04	2,2,45			1.00	0.07	0.93
1372	0.0	0.02	0.0	0,2,0	9.32e-05	1.11e-04	8.52e-03	2,8,2	0.0	0	0.0	0.0	0.0
	1.77e-03	2.05e-04	0.0	2,34,0	9.30e-05	2.11e-03	6.11e-05	2,2,34			1.00	0.07	0.93
1737	0.0	0.02	0.0	0,2,0	4.24e-05	4.90e-04	6.29e-03	28,12,2	0.0	0	0.0	0.0	0.0
	3.02e-03	4.65e-03	0.0	46,33,0	4.20e-05	3.72e-03	1.62e-03	28,44,34			1.00	0.07	0.93
1790	0.0	0.02	0.0	0,2,0	4.24e-05	4.90e-04	7.32e-03	28,12,2	0.0	0	0.0	0.0	0.0
	3.02e-03	4.65e-03	0.0	46,33,0	4.20e-05	3.96e-03	1.62e-03	28,44,34			1.00	0.07	0.93
1803	0.0	0.02	0.0	0,2,0	1.52e-05	1.72e-04	7.32e-03	45,12,2	0.0	0	0.0	0.0	0.0
	3.01e-03	4.10e-03	0.0	44,33,0	1.52e-05	3.96e-03	1.23e-03	45,44,33			1.00	0.07	0.93
1818	0.0	0.02	0.0	0,2,0	1.84e-05	4.49e-05	7.32e-03	45,8,2	0.0	0	0.0	0.0	0.0
	2.36e-03	3.19e-03	0.0	44,33,0	1.84e-05	3.13e-03	9.58e-04	45,44,33			1.00	0.07	0.93
1831	0.0	0.02	0.0	0,2,0	1.92e-05	1.39e-05	7.22e-03	45,12,2	0.0	0	0.0	0.0	0.0
	1.65e-03	2.29e-03	0.0	44,35,0	1.92e-05	2.17e-03	6.75e-04	45,44,33			1.00	0.07	0.93
1844	0.0	0.02	0.0	0,2,0	1.92e-05	1.14e-05	7.25e-03	45,8,2	0.0	0	0.0	0.0	0.0
	1.43e-03	1.49e-03	0.0	2,35,0	1.92e-05	1.76e-03	4.36e-04	45,2,35			1.00	0.07	0.93
1858	0.0	0.02	0.0	0,2,0	2.09e-05	1.23e-05	7.55e-03	44,12,2	0.0	0	0.0	0.0	0.0
	2.25e-03	7.34e-04	0.0	2,35,0	2.08e-05	2.68e-03	2.14e-04	44,2,35			1.00	0.07	0.93
1868	0.0	0.02	0.0	0,2,0	5.52e-05	1.23e-05	8.40e-03	38,12,2	0.0	0	0.0	0.0	0.0
	3.91e-03	7.56e-04	0.0	2,45,0	5.50e-05	4.63e-03	2.17e-04	38,2,45			1.00	0.07	0.93
1877	0.0	0.02	0.0	0,2,0	5.52e-05	9.96e-06	8.40e-03	38,2,2	0.0	0	0.0	0.0	0.0
	4.48e-03	1.04e-03	0.0	2,28,0	5.50e-05	5.30e-03	3.03e-04	38,2,28			1.00	0.07	0.93
1886	0.0	0.02	0.0	0,2,0	3.11e-04	3.63e-05	6.59e-03	2,2,2	0.0	0	0.0	0.0	0.0
	4.48e-03	1.04e-03	0.0	2,28,0	3.11e-04	5.30e-03	3.03e-04	2,2,28			1.00	0.07	0.93
1895	0.0	0.02	0.0	0,2,0	3.11e-04	3.63e-05	6.59e-03	2,2,2	0.0	0	0.0	0.0	0.0
	1.77e-03	4.76e-04	0.0	2,38,0	3.11e-04	2.11e-03	1.64e-04	2,2,38			1.00	0.07	0.93
2348	0.0	0.01	0.0	0,2,0	4.24e-05	4.41e-05	4.66e-03	28,12,2	0.0	0	0.0	0.0	0.0
	2.60e-03	3.81e-03	0.0	45,34,0	4.20e-05	3.23e-03	1.25e-03	28,45,34			1.00	0.07	0.93
2467	0.0	0.02	0.0	0,2,0	4.24e-05	1.72e-04	7.07e-03	28,12,2	0.0	0	0.0	0.0	0.0
	2.60e-03	3.81e-03	0.0	45,34,0	4.20e-05	3.23e-03	1.25e-03	28,45,34			1.00	0.07	0.93
2485	0.0	0.02	0.0	0,2,0	1.01e-05	1.72e-04	7.12e-03	45,12,2	0.0	0	0.0	0.0	0.0
	2.10e-03	2.67e-03	0.0	45,34,0	1.00e-05	2.58e-03	1.03e-03	45,45,34			1.00	0.07	0.93
2555	0.0	0.02	0.0	0,2,0	1.30e-05	4.49e-05	7.12e-03	45,8,2	0.0	0	0.0	0.0	0.0
	1.48e-03	1.62e-03	0.0	43,34,0	1.29e-05	1.81e-03	5.12e-04	45,43,34			1.00	0.07	0.93
2571	0.0	0.02	0.0	0,2,0	1.39e-05	1.39e-05	7.00e-03	45,12,2	0.0	0	0.0	0.0	0.0
	1.24e-03	1.19e-03	0.0	43,36,0	1.38e-05	1.49e-03	3.55e-04	45,43,36			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



2587	0.0	0.02	0.0	0,2,0	1.43e-05	1.14e-05	6.92e-03	43,8,2	0.0	0	0.0	0.0	0.0
	1.06e-03	8.37e-04	0.0	44,35,0	1.42e-05	1.28e-03	2.45e-04	43,44,35			1.00	0.07	0.93
2605	0.0	0.02	0.0	0,2,0	1.94e-05	1.23e-05	6.94e-03	44,12,2	0.0	0	0.0	0.0	0.0
	1.00e-03	6.38e-04	0.0	44,35,0	1.93e-05	1.20e-03	1.91e-04	44,44,35			1.00	0.07	0.93
2623	0.0	0.02	0.0	0,2,0	5.52e-05	1.23e-05	7.38e-03	38,12,2	0.0	0	0.0	0.0	0.0
	9.77e-04	5.95e-04	0.0	38,35,0	5.50e-05	1.17e-03	1.70e-04	38,38,35			1.00	0.07	0.93
2636	0.0	0.02	0.0	0,2,0	5.52e-05	9.96e-06	7.38e-03	38,2,2	0.0	0	0.0	0.0	0.0
	6.21e-04	1.04e-03	0.0	44,28,0	5.50e-05	7.59e-04	3.03e-04	38,44,28			1.00	0.07	0.93
2657	0.0	0.02	0.0	0,2,0	3.11e-04	3.63e-05	6.03e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.0	1.04e-03	0.0	0,28,0	3.11e-04	3.78e-05	3.03e-04	2,2,28			0.0	0.0	0.0
2670	0.0	0.02	0.0	0,2,0	3.11e-04	3.63e-05	6.03e-03	2,2,2	0.0	0	0.0	0.0	0.0
	0.0	4.76e-04	0.0	0,38,0	3.11e-04	3.78e-05	1.64e-04	2,2,38			0.0	0.0	0.0
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	4.48e-03	0.03	0.0		3.11e-04	5.30e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
126	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.06	242.7	28	0.04	259.1	28	0.03	-653.9	-1.801e+04	28

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2882	4.71e-03	5.49e-03	0.0	45,44,0	3.04e-05	7.95e-03	9.46e-03	28,45,44	0.0	0	0.74	0.04	0.96
	1.35e-03	1.21e-03	0.0	45,44,0	2.98e-05	3.08e-03	8.88e-04	28,45,44			1.00	0.07	0.93
2883	4.71e-03	5.49e-03	0.0	45,44,0	3.04e-05	7.95e-03	9.46e-03	28,45,44	0.0	0	0.74	0.04	0.96
	1.77e-03	1.54e-03	0.0	45,24,0	2.98e-05	3.74e-03	8.88e-04	28,46,44			1.00	0.07	0.93
2884	4.35e-03	5.16e-03	0.0	45,44,0	7.99e-06	7.74e-03	9.13e-03	28,45,44	0.0	0	0.74	0.04	0.96
	1.77e-03	2.01e-03	0.0	45,23,0	7.57e-06	3.74e-03	2.52e-03	28,46,44			1.00	0.07	0.93
2885	1.01e-03	3.82e-03	0.0	45,28,0	6.13e-06	2.43e-03	3.79e-03	43,45,44	0.0	0	0.74	0.04	0.96
	1.34e-03	2.01e-03	0.0	46,23,0	4.91e-06	3.54e-03	2.52e-03	43,46,44			1.00	0.07	0.93
3000	2.05e-03	3.82e-03	0.0	45,28,0	6.21e-06	2.55e-03	3.79e-03	44,45,44	0.0	0	0.74	0.04	0.96
	1.34e-03	2.01e-03	0.0	46,23,0	5.24e-06	3.54e-03	2.52e-03	44,46,44			1.00	0.07	0.93
3151	5.47e-03	5.49e-03	0.0	45,44,0	3.06e-05	8.15e-03	9.46e-03	28,45,44	0.0	0	0.74	0.04	0.96
	1.66e-03	1.21e-03	0.0	38,44,0	3.02e-05	3.08e-03	8.88e-04	28,45,44			1.00	0.07	0.93
3152	5.47e-03	5.49e-03	0.0	45,44,0	3.06e-05	8.15e-03	9.46e-03	28,45,44	0.0	0	0.74	0.04	0.96
	2.53e-03	1.54e-03	0.0	44,24,0	3.02e-05	5.01e-03	8.88e-04	28,44,44			1.00	0.07	0.93
3153	4.83e-03	5.16e-03	0.0	45,44,0	8.78e-06	7.74e-03	9.13e-03	28,45,44	0.0	0	0.74	0.04	0.96
	2.53e-03	2.01e-03	0.0	44,23,0	8.53e-06	5.01e-03	2.52e-03	28,44,44			1.00	0.07	0.93
3219	5.47e-03	4.50e-03	0.0	45,44,0	3.06e-05	8.15e-03	8.43e-03	28,45,44	0.0	0	0.74	0.04	0.96
	1.66e-03	5.77e-04	0.0	38,25,0	3.02e-05	2.31e-03	1.66e-04	28,38,25			1.00	0.07	0.93
3220	5.47e-03	4.50e-03	0.0	45,44,0	3.06e-05	8.15e-03	8.43e-03	28,45,44	0.0	0	0.74	0.04	0.96
	2.53e-03	9.80e-04	0.0	44,45,0	3.02e-05	5.01e-03	5.56e-04	28,44,43			1.00	0.07	0.93
3221	4.83e-03	4.07e-03	0.0	45,44,0	8.78e-06	7.37e-03	7.64e-03	28,45,44	0.0	0	0.74	0.04	0.96
	2.53e-03	9.80e-04	0.0	44,45,0	8.53e-06	5.01e-03	1.40e-03	28,44,44			1.00	0.07	0.93
3222	2.05e-03	2.65e-03	0.0	45,28,0	6.21e-06	2.55e-03	3.11e-03	44,45,43	0.0	0	0.74	0.04	0.96
	9.54e-04	5.70e-04	0.0	46,23,0	5.24e-06	2.09e-03	1.40e-03	44,44,44			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	5.47e-03	5.49e-03	0.0		3.06e-05	8.15e-03	9.46e-03		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
127	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.06	488.8	12	0.04	620.2	8	0.04	-3712.0	-9.031e+04	46

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
162	0.0	0.01	0.0	0,2,0	9.74e-06	1.16e-03	5.83e-03	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	7.80e-04	0.0	0,2,0	9.47e-06	3.92e-04	2.97e-04	12,38,2			0.0	0.0	0.0
163	0.0	0.01	0.0	0,2,0	9.74e-06	1.16e-03	6.05e-03	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	7.80e-04	0.0	0,2,0	9.47e-06	4.33e-04	5.45e-04	12,38,2			0.0	0.0	0.0
164	0.0	0.02	0.0	0,2,0	7.98e-06	4.41e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	9.14e-04	5.52e-04	0.0	2,2,0	7.50e-06	3.13e-03	2.63e-03	12,2,2			1.00	0.07	0.93
165	0.0	0.02	0.0	0,2,0	1.23e-05	4.46e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	9.48e-04	4.54e-04	0.0	18,8,0	1.08e-05	3.13e-03	2.63e-03	12,2,2			1.00	0.07	0.93
166	0.0	0.02	0.0	0,2,0	1.23e-05	4.46e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	9.48e-04	4.04e-04	0.0	18,8,0	1.08e-05	2.88e-03	2.33e-03	12,2,2			1.00	0.07	0.93
167	0.0	0.02	0.0	0,8,0	7.10e-06	1.24e-03	7.00e-03	12,2,2	0.0	0	0.0	0.0	0.0
	1.43e-04	2.36e-04	0.0	25,12,0	6.56e-06	3.13e-04	3.52e-04	12,2,2			1.00	0.07	0.93
168	0.0	0.02	0.0	0,38,0	1.01e-05	2.99e-04	6.10e-03	12,34,38	0.0	0	0.0	0.0	0.0
	0.0	3.62e-04	0.0	0,38,0	1.00e-05	3.85e-04	4.86e-04	12,38,38			0.0	0.0	0.0
169	0.0	0.02	0.0	0,38,0	1.01e-05	2.99e-04	6.10e-03	12,34,38	0.0	0	0.0	0.0	0.0
	0.0	3.62e-04	0.0	0,38,0	1.00e-05	3.85e-04	4.86e-04	12,38,38			0.0	0.0	0.0
630	0.0	0.01	0.0	0,2,0	1.07e-05	1.16e-03	5.83e-03	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.03e-03	0.0	0,2,0	1.04e-05	1.20e-03	7.85e-04	12,38,2			0.0	0.0	0.0
631	0.0	0.01	0.0	0,2,0	1.07e-05	1.16e-03	6.05e-03	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.03e-03	0.0	0,2,0	1.04e-05	1.20e-03	9.58e-04	12,38,2			0.0	0.0	0.0
632	0.0	0.02	0.0	0,2,0	1.33e-05	4.41e-03	0.01	24,2,2	0.0	0	0.0	0.0	0.0
	1.99e-03	1.66e-03	0.0	2,2,0	1.27e-05	4.79e-03	2.63e-03	24,2,2			1.00	0.07	0.93
633	0.0	0.02	0.0	0,2,0	1.64e-05	4.46e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	2.25e-03	1.66e-03	0.0	2,2,0	1.57e-05	5.05e-03	2.63e-03	12,2,2			1.00	0.07	0.93
634	0.0	0.02	0.0	0,2,0	1.64e-05	4.46e-03	0.01	12,2,2	0.0	0	0.0	0.0	0.0
	2.25e-03	1.44e-03	0.0	2,2,0	1.57e-05	5.05e-03	2.33e-03	12,2,2			1.00	0.07	0.93
635	0.0	0.02	0.0	0,8,0	7.10e-06	1.24e-03	7.00e-03	12,2,2	0.0	0	0.0	0.0	0.0
	1.43e-04	2.36e-04	0.0	25,12,0	6.56e-06	3.13e-04	3.52e-04	12,2,2			1.00	0.07	0.93
636	0.0	0.02	0.0	0,38,0	1.66e-05	2.99e-04	6.10e-03	12,34,38	0.0	0	0.0	0.0	0.0
	0.0	5.92e-04	0.0	0,18,0	1.65e-05	3.85e-04	4.86e-04	12,38,38			0.0	0.0	0.0
637	0.0	0.02	0.0	0,38,0	1.66e-05	2.99e-04	6.10e-03	12,34,38	0.0	0	0.0	0.0	0.0
	0.0	5.92e-04	0.0	0,18,0	1.65e-05	3.85e-04	4.86e-04	12,38,38			0.0	0.0	0.0
988	0.0	0.01	0.0	0,2,0	1.07e-05	6.70e-04	5.27e-03	12,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.49e-03	0.0	0,2,0	1.04e-05	1.20e-03	1.02e-03	12,38,2			0.0	0.0	0.0
989	0.0	0.01	0.0	0,2,0	1.24e-05	7.46e-04	5.76e-03	24,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.49e-03	0.0	0,2,0	1.23e-05	1.20e-03	1.25e-03	24,38,2			0.0	0.0	0.0
990	0.0	0.02	0.0	0,2,0	2.59e-05	2.12e-03	9.59e-03	24,38,2	0.0	0	0.0	0.0	0.0
	1.99e-03	2.62e-03	0.0	2,18,0	2.54e-05	4.79e-03	1.89e-03	24,2,2			1.00	0.07	0.93
991	0.0	0.02	0.0	0,2,0	2.59e-05	2.21e-03	9.80e-03	24,38,2	0.0	0	0.0	0.0	0.0
	2.25e-03	2.63e-03	0.0	2,18,0	2.54e-05	5.05e-03	1.89e-03	24,2,2			1.00	0.07	0.93
992	0.0	0.02	0.0	0,2,0	2.36e-05	2.21e-03	9.80e-03	8,38,2	0.0	0	0.0	0.0	0.0
	2.25e-03	2.63e-03	0.0	2,18,0	2.27e-05	5.05e-03	1.65e-03	8,2,2			1.00	0.07	0.93
993	0.0	0.02	0.0	0,2,0	5.21e-06	8.88e-04	6.67e-03	12,2,2	0.0	0	0.0	0.0	0.0
	4.15e-04	1.55e-03	0.0	13,18,0	4.87e-06	8.32e-04	9.06e-04	12,11,18			1.00	0.07	0.93
994	0.0	0.01	0.0	0,2,0	4.77e-05	3.70e-04	5.57e-03	8,34,2	0.0	0	0.0	0.0	0.0
	1.22e-04	1.30e-03	0.0	45,2,0	4.72e-05	1.08e-03	1.40e-03	8,28,28			1.00	0.07	0.93
995	0.0	0.01	0.0	0,2,0	4.77e-05	3.70e-04	5.57e-03	8,34,2	0.0	0	0.0	0.0	0.0
	1.22e-04	1.30e-03	0.0	45,2,0	4.72e-05	1.08e-03	1.40e-03	8,28,28			1.00	0.07	0.93
1408	0.0	0.01	0.0	0,2,0	1.25e-05	3.40e-04	4.31e-03	8,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.49e-03	0.0	0,2,0	1.22e-05	4.90e-04	1.02e-03	8,38,2			0.0	0.0	0.0
1409	0.0	0.01	0.0	0,2,0	1.69e-05	4.00e-04	4.89e-03	24,2,2	0.0	0	0.0	0.0	0.0
	0.0	2.49e-03	0.0	0,2,0	1.68e-05	9.25e-04	1.34e-03	24,2,2			0.0	0.0	0.0
1410	0.0	0.02	0.0	0,2,0	4.14e-05	2.09e-03	8.80e-03	18,38,2	0.0	0	0.0	0.0	0.0
	1.50e-03	3.67e-03	0.0	8,18,0	4.05e-05	4.47e-03	1.72e-03	18,2,2			1.00	0.07	0.93
1411	0.0	0.02	0.0	0,2,0	4.67e-05	2.13e-03	8.85e-03	8,38,2	0.0	0	0.0	0.0	0.0
	1.79e-03	4.17e-03	0.0	8,18,0	4.57e-05	4.82e-03	1.72e-03	8,2,2			1.00	0.07	0.93
1412	0.0	0.02	0.0	0,2,0	4.67e-05	2.13e-03	8.85e-03	8,38,2	0.0	0	0.0	0.0	0.0
	1.79e-03	4.17e-03	0.0	8,18,0	4.57e-05	4.82e-03	1.60e-03	8,2,18			1.00	0.07	0.93
1413	0.0	0.01	0.0	0,2,0	1.84e-05	3.37e-04	5.64e-03	24,2,2	0.0	0	0.0	0.0	0.0
	8.22e-04	4.00e-03	0.0	13,18,0	1.81e-05	1.29e-03	1.70e-03	24,13,18			1.00	0.07	0.93
1414	0.0	3.72e-03	0.0	0,2,0	1.84e-05	4.65e-04	1.81e-03	24,28,28	0.0	0	0.0	0.0	0.0
	1.15e-03	4.13e-03	0.0	43,18,0	1.81e-05	2.92e-03	3.55e-03	24,43,28			1.00	0.07	0.93
1415	0.0	0.01	0.0	0,2,0	9.88e-05	5.92e-04	4.94e-03	2,28,2	0.0	0	0.0	0.0	0.0
	1.15e-03	4.13e-03	0.0	43,18,0	9.85e-05	2.92e-03	3.55e-03	2,43,28			1.00	0.07	0.93
1416	0.0	0.01	0.0	0,2,0	9.88e-05	5.92e-04	4.94e-03	2,28,2	0.0	0	0.0	0.0	0.0
	4.55e-04	3.42e-03	0.0	43,18,0	9.85e-05	2.47e-03	3.17e-03	2,28,28			1.00	0.07	0.93
1931	0.0	7.77e-03	0.0	0,2,0	2.34e-05	5.20e-04	2.96e-03	8,2,2	0.0	0	0.0	0.0	0.0
	7.21e-04	2.34e-03	0.0	2,18,0	2.28e-05	1.87e-03	8.55e-04	8,2,18			1.00	0.07	0.93
1932	0.0	9.23e-03	0.0	0,2,0	3.22e-05	5.20e-04	3.65e-03	18,2,2	0.0	0	0.0	0.0	0.0
	7.21e-04	2.34e-03	0.0	2,18,0	3.14e-05	1.87e-03	1.34e-03	18,2,2			1.00	0.07	0.93
1933	0.0	0.02	0.0	0,2,0	8.81e-05	2.09e-03	8.55e-03	2,38,2	0.0	0	0.0	0.0	0.0
	1.25e-03	3.67e-03	0.0	11,18,0	8.79e-05	3.87e-03	4.30e-03	2,8,2			1.00	0.07	0.93
1934	0.0	0.02	0.0	0,2,0	1.09e-04	2.13e-03	8.55e-03	2,38,2	0.0	0	0.0	0.0	0.0

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1935	1.32e-03	4.17e-03	0.0	11,18,0	1.08e-04	3.87e-03	4.30e-03	2,8,2	0.0	0	1.00	0.07	0.93
	0.0	0.02	0.0	0,2,0	1.09e-04	2.13e-03	8.44e-03	2,38,2	0.0	0	0.0	0.0	0.0
1936	1.32e-03	4.17e-03	0.0	11,18,0	1.08e-04	3.22e-03	3.79e-03	2,12,2	1.00	0	1.00	0.07	0.93
	0.0	9.61e-03	0.0	0,2,0	2.50e-05	2.64e-04	3.63e-03	8,2,2	0.0	0	0.0	0.0	0.0
1937	8.22e-04	4.00e-03	0.0	13,18,0	2.42e-05	1.29e-03	1.70e-03	8,13,18	1.00	0	1.00	0.07	0.93
	0.0	3.72e-03	0.0	0,2,0	1.84e-05	4.65e-04	1.81e-03	24,28,28	0.0	0	0.0	0.0	0.0
1938	1.15e-03	4.13e-03	0.0	43,18,0	1.81e-05	2.92e-03	3.55e-03	24,43,28	1.00	0	1.00	0.07	0.93
	0.0	9.33e-03	0.0	0,2,0	1.74e-04	5.92e-04	3.89e-03	2,28,2	0.0	0	0.0	0.0	0.0
1939	1.15e-03	4.13e-03	0.0	43,18,0	1.74e-04	2.92e-03	3.55e-03	2,43,28	1.00	0	1.00	0.07	0.93
	0.0	9.33e-03	0.0	0,2,0	1.74e-04	5.92e-04	3.89e-03	2,28,2	0.0	0	0.0	0.0	0.0
2706	4.55e-04	3.42e-03	0.0	43,18,0	1.74e-04	2.47e-03	3.17e-03	2,28,28	1.00	0	1.00	0.07	0.93
	0.0	4.20e-03	0.0	0,2,0	2.34e-05	5.20e-04	2.09e-03	8,2,2	0.0	0	0.0	0.0	0.0
2707	7.21e-04	1.01e-03	0.0	2,18,0	2.28e-05	1.87e-03	4.21e-04	8,2,18	1.00	0	1.00	0.07	0.93
	0.0	5.22e-03	0.0	0,2,0	3.22e-05	5.20e-04	2.40e-03	18,2,2	0.0	0	0.0	0.0	0.0
2708	7.21e-04	1.07e-03	0.0	2,24,0	3.14e-05	1.87e-03	8.43e-04	18,2,18	1.00	0	1.00	0.07	0.93
	0.0	0.01	0.0	0,2,0	8.81e-05	8.39e-04	5.24e-03	2,44,2	0.0	0	0.0	0.0	0.0
2709	4.73e-04	2.86e-03	0.0	12,18,0	8.79e-05	3.82e-03	4.30e-03	2,2,2	1.00	0	1.00	0.07	0.93
	0.0	0.01	0.0	0,2,0	1.09e-04	8.89e-04	5.24e-03	2,44,2	0.0	0	0.0	0.0	0.0
2710	4.16e-04	3.66e-03	0.0	11,18,0	1.08e-04	3.82e-03	4.30e-03	2,2,2	1.00	0	1.00	0.07	0.93
	0.0	0.01	0.0	0,2,0	1.09e-04	8.89e-04	5.07e-03	2,44,2	0.0	0	0.0	0.0	0.0
2711	2.07e-04	3.66e-03	0.0	11,18,0	1.08e-04	3.05e-03	3.79e-03	2,2,2	1.00	0	1.00	0.07	0.93
	0.0	4.96e-03	0.0	0,2,0	2.50e-05	2.64e-04	2.13e-03	8,2,2	0.0	0	0.0	0.0	0.0
2712	2.07e-04	2.45e-03	0.0	11,18,0	2.42e-05	6.29e-04	1.04e-03	8,2,18	1.00	0	1.00	0.07	0.93
	0.0	3.60e-03	0.0	0,2,0	1.44e-05	2.32e-04	1.54e-03	24,38,2	0.0	0	0.0	0.0	0.0
2713	2.01e-04	2.62e-03	0.0	13,18,0	1.41e-05	1.47e-03	1.79e-03	24,43,44	1.00	0	1.00	0.07	0.93
	0.0	4.96e-03	0.0	0,2,0	1.74e-04	2.32e-04	1.95e-03	2,38,2	0.0	0	0.0	0.0	0.0
2714	2.66e-04	2.87e-03	0.0	13,18,0	1.74e-04	1.47e-03	1.79e-03	2,43,44	1.00	0	1.00	0.07	0.93
	0.0	4.96e-03	0.0	0,2,0	1.74e-04	1.83e-04	1.95e-03	2,38,2	0.0	0	0.0	0.0	0.0
	2.66e-04	2.87e-03	0.0	13,18,0	1.74e-04	1.36e-03	1.66e-03	2,43,44	1.00	0	1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	2.25e-03	0.02	0.0		1.74e-04	5.05e-03	0.01		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
128	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.06	855.0	44	0.03	-62.6	33	0.06	-6908.5	-2.297e+05	28

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
55	1.31e-03	6.04e-03	0.0	25,8,0	1.81e-04	8.52e-03	0.01	24,25,24	0.0	0	0.95	0.03	0.97
	5.38e-03	4.41e-03	0.0	25,24,0	1.17e-04	0.02	0.01	24,25,24			1.00	0.07	0.93
60	4.89e-03	0.02	0.0	25,18,0	1.81e-04	0.02	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	5.38e-03	4.41e-03	0.0	25,24,0	1.17e-04	0.02	0.01	24,25,24			1.00	0.07	0.93
68	8.24e-03	0.02	0.0	25,24,0	1.30e-04	0.02	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	5.35e-03	3.63e-03	0.0	24,25,0	7.60e-05	0.01	7.52e-03	24,24,25			1.00	0.07	0.93
77	0.01	0.02	0.0	25,24,0	9.60e-05	0.03	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	4.29e-03	2.95e-03	0.0	24,25,0	4.99e-05	9.85e-03	5.03e-03	24,24,25			1.00	0.07	0.93
85	0.01	0.03	0.0	25,24,0	7.90e-05	0.03	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	2.47e-03	1.42e-03	0.0	12,13,0	3.43e-05	6.40e-03	5.14e-03	24,12,13			1.00	0.07	0.93
93	0.01	0.03	0.0	25,24,0	7.01e-05	0.03	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	2.47e-03	1.42e-03	0.0	12,13,0	3.11e-05	6.40e-03	5.14e-03	12,12,13			1.00	0.07	0.93
108	0.01	0.03	0.0	25,24,0	1.71e-04	0.02	0.03	23,25,24	0.0	0	0.95	0.03	0.97
	1.91e-03	1.85e-03	0.0	11,14,0	9.28e-05	8.98e-03	8.52e-03	23,23,25			1.00	0.07	0.93
115	0.01	0.03	0.0	25,24,0	1.84e-04	0.02	0.03	26,25,24	0.0	0	0.95	0.03	0.97
	2.99e-03	1.88e-03	0.0	23,26,0	1.06e-04	0.01	9.21e-03	26,23,26			1.00	0.07	0.93
121	4.98e-03	0.02	0.0	25,18,0	2.27e-04	0.02	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	4.67e-03	4.06e-03	0.0	25,24,0	1.43e-04	0.02	0.01	23,25,24			1.00	0.07	0.93
177	1.47e-03	8.85e-03	0.0	25,8,0	2.27e-04	9.09e-03	0.01	23,25,24	0.0	0	0.95	0.03	0.97
	4.67e-03	4.06e-03	0.0	25,24,0	1.43e-04	0.02	0.01	23,25,24			1.00	0.07	0.93
524	7.89e-03	0.01	0.0	25,24,0	1.81e-04	0.01	0.01	24,25,24	0.0	0	0.95	0.03	0.97
	9.42e-03	7.16e-03	0.0	25,24,0	1.17e-04	0.02	0.01	24,25,24			1.00	0.07	0.93
529	0.02	0.03	0.0	25,24,0	1.81e-04	0.02	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	24,25,0	1.17e-04	0.04	0.01	24,24,24			1.00	0.07	0.93
537	0.04	0.04	0.0	25,24,0	1.30e-04	0.04	0.03	24,25,24	0.0	0	0.95	0.03	0.97

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



546	0.02	0.01	0.0	24,25,0	7.60e-05	0.04	7.52e-03	24,24,25			1.00	0.07	0.93
	0.04	0.05	0.0	25,24,0	9.60e-05	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	26,23,0	4.99e-05	0.03	5.06e-03	24,26,23			1.00	0.07	0.93
554	0.05	0.06	0.0	25,24,0	7.90e-05	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	5.62e-03	4.08e-03	0.0	26,23,0	3.43e-05	0.01	5.14e-03	24,25,13			1.00	0.07	0.93
562	0.05	0.06	0.0	25,24,0	7.55e-05	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	3.98e-03	2.82e-03	0.0	14,11,0	3.11e-05	9.21e-03	5.14e-03	12,14,13			1.00	0.07	0.93
577	0.04	0.05	0.0	25,24,0	1.71e-04	0.04	0.04	23,25,24	0.0	0	0.95	0.03	0.97
	2.78e-03	2.14e-03	0.0	23,24,0	9.28e-05	8.98e-03	8.52e-03	23,23,25			1.00	0.07	0.93
584	0.04	0.05	0.0	25,24,0	1.84e-04	0.04	0.04	26,25,24	0.0	0	0.95	0.03	0.97
	0.01	8.66e-03	0.0	24,24,0	1.06e-04	0.03	9.21e-03	26,24,26			1.00	0.07	0.93
590	0.03	0.03	0.0	25,24,0	2.27e-04	0.03	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	0.01	8.66e-03	0.0	24,24,0	1.43e-04	0.03	0.01	23,24,24			1.00	0.07	0.93
645	8.06e-03	0.02	0.0	25,18,0	2.27e-04	0.01	0.01	23,25,24	0.0	0	0.95	0.03	0.97
	7.46e-03	5.79e-03	0.0	25,24,0	1.43e-04	0.02	0.01	23,25,24			1.00	0.07	0.93
882	0.01	0.01	0.0	25,24,0	1.05e-04	0.01	0.01	24,25,24	0.0	0	0.95	0.03	0.97
	0.01	9.06e-03	0.0	25,24,0	7.12e-05	0.03	0.01	24,25,23			1.00	0.07	0.93
887	0.03	0.03	0.0	25,24,0	1.05e-04	0.03	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,26,0	7.12e-05	0.05	0.01	24,25,23			1.00	0.07	0.93
895	0.05	0.05	0.0	25,24,0	7.50e-05	0.04	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,26,0	4.18e-05	0.05	8.98e-03	24,25,25			1.00	0.07	0.93
904	0.06	0.06	0.0	25,24,0	6.78e-05	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	25,24,0	3.19e-05	0.04	7.02e-03	44,25,24			1.00	0.07	0.93
912	0.08	0.08	0.0	25,24,0	7.55e-05	0.06	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	6.89e-03	5.77e-03	0.0	25,24,0	3.19e-05	0.02	5.66e-03	44,25,12			1.00	0.07	0.93
920	0.08	0.08	0.0	25,24,0	7.55e-05	0.06	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	3.98e-03	3.94e-03	0.0	14,12,0	2.96e-05	9.85e-03	5.66e-03	44,13,12			1.00	0.07	0.93
935	0.07	0.07	0.0	25,24,0	1.07e-04	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	6.65e-03	5.65e-03	0.0	25,24,0	5.14e-05	0.02	3.84e-03	23,25,12			1.00	0.07	0.93
942	0.07	0.07	0.0	25,24,0	1.09e-04	0.05	0.04	26,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,24,0	5.97e-05	0.05	8.18e-03	26,25,24			1.00	0.07	0.93
948	0.04	0.04	0.0	25,24,0	1.37e-04	0.03	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,24,0	8.64e-05	0.05	0.01	23,25,24			1.00	0.07	0.93
1003	0.01	0.02	0.0	25,18,0	1.37e-04	0.01	0.01	23,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	25,24,0	8.64e-05	0.03	0.01	23,26,24			1.00	0.07	0.93
1293	0.01	0.01	0.0	25,24,0	1.15e-04	0.01	0.01	24,25,24	0.0	0	0.95	0.03	0.97
	0.01	9.06e-03	0.0	25,24,0	7.72e-05	0.03	0.01	24,25,23			1.00	0.07	0.93
1297	0.03	0.03	0.0	25,24,0	1.15e-04	0.03	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,26,0	7.72e-05	0.05	0.01	24,25,23			1.00	0.07	0.93
1304	0.05	0.05	0.0	25,24,0	6.44e-05	0.04	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	25,26,0	3.44e-05	0.05	8.98e-03	24,25,25			1.00	0.07	0.93
1313	0.06	0.06	0.0	25,24,0	4.89e-05	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	25,24,0	2.79e-05	0.04	7.02e-03	44,25,24			1.00	0.07	0.93
1320	0.08	0.08	0.0	25,24,0	1.08e-04	0.06	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	24,25,0	4.88e-05	0.05	7.55e-03	24,24,25			1.00	0.07	0.93
1327	0.08	0.08	0.0	25,24,0	1.27e-04	0.06	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	24,25,0	1.07e-04	0.08	0.02	24,24,25			1.00	0.07	0.93
1339	0.02	0.02	0.0	25,24,0	1.27e-04	0.03	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	24,25,0	1.07e-04	0.10	0.02	24,24,25			1.00	0.07	0.93
1344	0.02	0.02	0.0	25,24,0	1.90e-04	0.02	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	24,25,0	1.55e-04	0.11	0.03	24,23,25			1.00	0.07	0.93
1349	0.07	0.07	0.0	25,24,0	1.90e-04	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	24,25,0	1.55e-04	0.11	0.03	24,23,25			1.00	0.07	0.93
1357	0.07	0.07	0.0	25,24,0	1.78e-04	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.04	0.03	0.0	23,25,0	1.02e-04	0.09	0.01	24,23,25			1.00	0.07	0.93
1365	0.04	0.04	0.0	25,24,0	8.50e-05	0.03	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	23,25,0	5.99e-05	0.07	0.02	23,25,25			1.00	0.07	0.93
1424	0.01	0.02	0.0	25,18,0	8.50e-05	0.01	0.01	23,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	25,24,0	5.99e-05	0.03	0.02	23,25,25			1.00	0.07	0.93
1784	8.66e-03	0.01	0.0	25,24,0	2.47e-04	0.01	0.01	24,25,24	0.0	0	0.95	0.03	0.97
	6.89e-03	5.21e-03	0.0	25,24,0	1.64e-04	0.02	0.01	24,25,25			1.00	0.07	0.93
1789	0.03	0.03	0.0	25,24,0	2.47e-04	0.03	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	24,25,0	1.64e-04	0.03	0.01	24,24,25			1.00	0.07	0.93
1802	0.04	0.04	0.0	25,24,0	1.22e-04	0.04	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	0.01	0.01	0.0	24,25,0	7.21e-05	0.03	8.94e-03	24,24,24			1.00	0.07	0.93
1817	0.05	0.05	0.0	25,24,0	8.59e-05	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.01	8.43e-03	0.0	24,25,0	4.33e-05	0.03	7.70e-03	24,24,25			1.00	0.07	0.93
1830	0.05	0.05	0.0	25,24,0	1.08e-04	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.01	0.0	24,25,0	4.88e-05	0.05	7.70e-03	24,24,25			1.00	0.07	0.93
1843	0.05	0.05	0.0	25,24,0	1.27e-04	0.05	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	24,25,0	1.07e-04	0.08	0.02	24,24,25			1.00	0.07	0.93
1855	0.02	0.02	0.0	25,24,0	1.27e-04	0.03	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	24,25,0	1.07e-04	0.10	0.02	24,24,25			1.00	0.07	0.93
1861	0.02	0.02	0.0	25,24,0	1.90e-04	0.02	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	24,25,0	1.55e-04	0.11	0.03	24,23,25			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



1867	0.04	0.04	0.0	25,24,0	1.90e-04	0.04	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.05	0.03	0.0	24,25,0	1.55e-04	0.11	0.03	24,23,25			1.00	0.07	0.93
1876	0.04	0.04	0.0	25,24,0	1.78e-04	0.04	0.04	24,25,24	0.0	0	0.95	0.03	0.97
	0.04	0.03	0.0	23,25,0	1.02e-04	0.09	0.01	24,23,25			1.00	0.07	0.93
1885	0.03	0.03	0.0	25,24,0	2.32e-04	0.03	0.02	26,25,24	0.0	0	0.95	0.03	0.97
	0.03	0.02	0.0	23,25,0	1.53e-04	0.07	0.02	26,25,25			1.00	0.07	0.93
1947	9.92e-03	0.02	0.0	25,18,0	2.32e-04	0.01	0.01	26,25,24	0.0	0	0.95	0.03	0.97
	0.01	9.81e-03	0.0	25,25,0	1.53e-04	0.03	0.02	26,25,25			1.00	0.07	0.93
2390	2.11e-03	8.40e-03	0.0	25,18,0	2.47e-04	0.01	0.01	24,25,24	0.0	0	0.95	0.03	0.97
	1.18e-03	9.70e-04	0.0	13,24,0	1.64e-04	0.01	0.01	24,25,25			1.00	0.07	0.93
2466	7.41e-03	0.01	0.0	25,24,0	2.47e-04	0.02	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	2.55e-03	1.40e-03	0.0	11,26,0	1.64e-04	0.01	0.01	24,25,25			1.00	0.07	0.93
2484	0.01	0.02	0.0	25,24,0	1.22e-04	0.03	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	2.87e-03	1.40e-03	0.0	12,26,0	7.21e-05	9.03e-03	8.94e-03	24,23,24			1.00	0.07	0.93
2554	0.01	0.02	0.0	25,24,0	8.59e-05	0.03	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	3.84e-03	2.88e-03	0.0	24,25,0	4.33e-05	9.21e-03	7.70e-03	24,24,25			1.00	0.07	0.93
2570	0.01	0.02	0.0	25,24,0	7.16e-05	0.03	0.03	24,25,24	0.0	0	0.95	0.03	0.97
	8.87e-03	6.42e-03	0.0	24,25,0	3.46e-05	0.02	7.70e-03	44,24,25			1.00	0.07	0.93
2582	0.01	0.02	0.0	25,24,0	5.11e-05	0.03	0.03	44,25,24	0.0	0	0.95	0.03	0.97
	8.87e-03	6.42e-03	0.0	24,25,0	5.11e-05	0.02	5.82e-03	44,24,25			1.00	0.07	0.93
2600	0.01	0.02	0.0	25,24,0	5.11e-05	0.02	0.02	44,25,24	0.0	0	0.95	0.03	0.97
	6.02e-03	4.54e-03	0.0	26,25,0	5.11e-05	0.01	5.82e-03	44,26,25			1.00	0.07	0.93
2612	0.01	0.02	0.0	25,24,0	4.89e-05	0.02	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.01	8.29e-03	0.0	24,25,0	3.30e-05	0.03	7.25e-03	34,26,25			1.00	0.07	0.93
2618	0.01	0.02	0.0	25,24,0	1.00e-04	0.02	0.02	24,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	24,25,0	5.91e-05	0.05	7.65e-03	24,24,25			1.00	0.07	0.93
2635	0.01	0.02	0.0	25,24,0	1.59e-04	0.02	0.02	23,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	24,25,0	9.31e-05	0.05	0.01	23,25,25			1.00	0.07	0.93
2652	9.56e-03	0.02	0.0	25,24,0	2.32e-04	0.02	0.02	26,25,24	0.0	0	0.95	0.03	0.97
	0.02	0.02	0.0	24,25,0	1.53e-04	0.05	0.02	26,25,25			1.00	0.07	0.93
2722	3.13e-03	0.01	0.0	25,18,0	2.32e-04	0.01	0.01	26,25,24	0.0	0	0.95	0.03	0.97
	0.01	6.50e-03	0.0	24,25,0	1.53e-04	0.02	0.02	26,26,25			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.08	0.08	0.0		2.47e-04	0.11	0.04		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
129	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb			
ok	4.72e-03	5.1	44	2.95e-03	5.1	44	0.02	2.6	-2022.9	2			
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2451	0.02	0.02	0.0	26,23,0	2.78e-03	0.07	0.07	24,26,23	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	25,24,0	2.31e-03	0.17	0.16	24,25,25			1.00	0.07	0.93
2465	0.02	0.02	0.0	26,23,0	2.78e-03	0.07	0.07	24,26,23	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	25,24,0	2.31e-03	0.17	0.16	24,25,25			1.00	0.07	0.93
3028	0.02	0.02	0.0	26,23,0	2.78e-03	0.07	0.07	24,26,23	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	25,24,0	2.31e-03	0.17	0.16	24,25,25			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.04	0.03	0.0		2.78e-03	0.17	0.16		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
130	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.01	11.7	44	6.81e-03	11.7	44	0.03	3.6	-2544.1	2

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



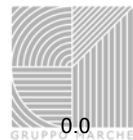
Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2391	0.02	0.02	0.0	14,11,0	3.13e-03	0.07	0.08	12,14,11	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	13,12,0	2.61e-03	0.18	0.17	12,13,14			1.00	0.07	0.93
2464	0.02	0.02	0.0	14,11,0	3.13e-03	0.07	0.08	12,14,11	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	13,12,0	2.61e-03	0.18	0.17	12,13,14			1.00	0.07	0.93
3027	0.02	0.02	0.0	14,11,0	3.13e-03	0.07	0.08	12,14,11	0.0	0	0.61	0.05	0.95
	0.04	0.03	0.0	13,12,0	2.61e-03	0.18	0.17	12,13,14			1.00	0.07	0.93
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26				
	0.04	0.03	0.0		3.13e-03	0.18	0.17		0.0				

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
131	XLAM vert 10 (2+2+2+2)-legno E = 8.874e+04 (XLAM -3- vert)	5	10.0	SI	ok

V. connes.	V. piede	Azione V daN	Rif. cmb	V. testa	Azione V daN	Rif. cmb	V. h-d	Azione N daN	Azione M daN cm	Rif. cmb
ok	0.07	-2436.7	34	0.15	-201.8	2	0.42	-1.952e+04	1.108e+07	2

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
24	0.0	5.82e-03	0.0	0,38,0	4.64e-05	5.56e-05	2.14e-03	34,8,38	0.0	0	0.0	0.0	0.0
	6.67e-04	1.97e-03	0.0	45,34,0	4.64e-05	8.04e-04	6.20e-04	34,45,34			1.00	0.07	0.93
48	0.0	0.01	0.0	0,28,0	2.06e-04	1.08e-05	4.25e-03	44,24,28	0.0	0	0.0	0.0	0.0
	4.68e-04	2.54e-03	0.0	45,34,0	2.06e-04	5.53e-04	7.18e-04	44,45,34			1.00	0.07	0.93
59	0.0	0.01	0.0	0,28,0	2.06e-04	1.08e-05	4.25e-03	44,24,28	0.0	0	0.0	0.0	0.0
	4.68e-04	2.54e-03	0.0	45,34,0	2.06e-04	5.53e-04	7.18e-04	44,45,34			1.00	0.07	0.93
64	0.0	0.02	0.0	0,2,0	5.34e-05	5.56e-05	5.92e-03	34,8,2	0.0	0	0.0	0.0	0.0
	1.37e-03	1.97e-03	0.0	44,34,0	5.34e-05	1.66e-03	6.20e-04	34,44,34			1.00	0.07	0.93
72	0.0	0.02	0.0	0,2,0	5.34e-05	8.20e-06	5.92e-03	34,8,2	0.0	0	0.0	0.0	0.0
	1.37e-03	1.20e-03	0.0	44,35,0	5.34e-05	1.66e-03	3.44e-04	34,44,35			1.00	0.07	0.93
73	0.0	0.06	0.0	0,2,0	4.18e-06	5.18e-06	0.02	44,24,2	0.0	0	0.0	0.0	0.0
	1.97e-05	2.64e-05	0.0	38,35,0	3.02e-06	2.80e-05	1.21e-05	44,38,33			1.00	0.07	0.93
75	0.0	0.06	0.0	0,2,0	4.18e-06	5.18e-06	0.02	44,24,2	0.0	0	0.0	0.0	0.0
	1.97e-05	2.64e-05	0.0	38,35,0	3.02e-06	2.80e-05	1.21e-05	44,38,33			1.00	0.07	0.93
81	0.0	0.02	0.0	0,2,0	4.68e-05	3.95e-06	5.90e-03	34,8,2	0.0	0	0.0	0.0	0.0
	5.96e-04	5.56e-04	0.0	44,35,0	4.67e-05	7.11e-04	1.58e-04	34,44,35			1.00	0.07	0.93
88	0.0	0.04	0.0	0,38,0	2.62e-05	1.72e-06	0.01	45,34,38	0.0	0	0.0	0.0	0.0
	2.85e-04	4.42e-04	0.0	35,44,0	2.61e-05	3.38e-04	1.26e-04	45,35,44			1.00	0.07	0.93
90	0.0	0.02	0.0	0,2,0	4.38e-05	3.61e-06	5.90e-03	34,8,2	0.0	0	0.0	0.0	0.0
	3.78e-04	3.16e-04	0.0	44,35,0	4.37e-05	4.47e-04	9.13e-05	34,44,35			1.00	0.07	0.93
96	0.0	0.04	0.0	0,38,0	3.86e-05	4.89e-06	0.01	46,18,38	0.0	0	0.0	0.0	0.0
	2.85e-04	4.42e-04	0.0	35,44,0	3.84e-05	3.38e-04	1.26e-04	46,35,44			1.00	0.07	0.93
99	0.0	0.02	0.0	0,2,0	4.21e-05	2.04e-06	5.93e-03	34,2,2	0.0	0	0.0	0.0	0.0
	3.30e-04	1.84e-04	0.0	2,35,0	4.20e-05	3.94e-04	5.42e-05	34,2,35			1.00	0.07	0.93
103	0.0	0.04	0.0	0,2,0	3.86e-05	6.54e-06	0.01	46,18,2	0.0	0	0.0	0.0	0.0
	3.78e-04	4.24e-04	0.0	45,2,0	3.84e-05	4.47e-04	1.21e-04	46,45,2			1.00	0.07	0.93
105	0.0	0.02	0.0	0,2,0	4.13e-05	2.88e-06	6.18e-03	34,23,2	0.0	0	0.0	0.0	0.0
	5.57e-04	7.02e-05	0.0	2,35,0	4.12e-05	6.62e-04	2.22e-05	34,2,35			1.00	0.07	0.93
110	0.0	0.04	0.0	0,2,0	3.15e-05	6.54e-06	0.01	44,18,2	0.0	0	0.0	0.0	0.0
	3.78e-04	3.74e-04	0.0	45,34,0	3.13e-05	4.47e-04	1.09e-04	44,45,34			1.00	0.07	0.93
112	0.0	0.02	0.0	0,2,0	4.09e-05	4.96e-06	7.51e-03	34,24,2	0.0	0	0.0	0.0	0.0
	1.58e-03	1.60e-04	0.0	28,45,0	4.08e-05	1.87e-03	4.60e-05	34,28,45			1.00	0.07	0.93
118	0.0	0.02	0.0	0,2,0	3.65e-05	4.96e-06	7.51e-03	34,24,2	0.0	0	0.0	0.0	0.0
	1.58e-03	3.20e-04	0.0	28,43,0	3.65e-05	1.87e-03	9.61e-05	34,28,44			1.00	0.07	0.93
124	0.0	0.02	0.0	0,38,0	9.11e-06	1.16e-04	6.68e-03	34,38,38	0.0	0	0.0	0.0	0.0
	0.0	1.37e-03	0.0	0,38,0	9.06e-06	4.43e-05	4.31e-04	34,38,38			0.0	0.0	0.0
142	0.0	9.43e-03	0.0	0,2,0	3.65e-05	1.58e-06	3.39e-03	34,23,2	0.0	0	0.0	0.0	0.0
	3.02e-04	3.20e-04	0.0	36,43,0	3.65e-05	3.59e-04	9.61e-05	34,36,44			1.00	0.07	0.93
168	0.0	0.02	0.0	0,38,0	9.11e-06	1.16e-04	6.68e-03	34,38,38	0.0	0	0.0	0.0	0.0
	0.0	1.37e-03	0.0	0,38,0	9.06e-06	4.43e-05	4.31e-04	34,38,38			0.0	0.0	0.0
493	0.0	8.13e-03	0.0	0,38,0	4.64e-05	5.56e-05	2.94e-03	34,8,38	0.0	0	0.0	0.0	0.0
	1.28e-03	2.22e-03	0.0	46,34,0	4.64e-05	1.57e-03	6.56e-04	34,46,34			1.00	0.07	0.93
517	0.0	0.02	0.0	0,2,0	2.06e-04	1.08e-05	6.38e-03	44,24,2	0.0	0	0.0	0.0	0.0
	7.94e-04	2.54e-03	0.0	45,34,0	2.06e-04	9.36e-04	7.18e-04	44,45,34			1.00	0.07	0.93

Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO

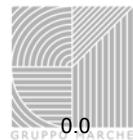


528	0.0	0.02	0.0	0,2,0	2.06e-04	1.08e-05	6.38e-03	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	7.94e-04	2.54e-03	0.0	45,34,0	2.06e-04	9.36e-04	7.18e-04	44,45,34			1.00	0.07	0.93	
533	0.0	0.02	0.0	0,2,0	5.34e-05	5.56e-05	5.92e-03	34,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.65e-03	2.22e-03	0.0	44,34,0	5.34e-05	2.01e-03	6.56e-04	34,44,34			1.00	0.07	0.93	
541	0.0	0.02	0.0	0,2,0	5.34e-05	8.46e-06	5.92e-03	34,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.65e-03	1.58e-03	0.0	44,35,0	5.34e-05	2.01e-03	4.50e-04	34,44,35			1.00	0.07	0.93	
542	0.0	0.06	0.0	0,2,0	4.18e-06	5.18e-06	0.02	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	2.57e-04	3.38e-05	0.0	38,35,0	3.02e-06	3.03e-04	1.21e-05	44,38,33			1.00	0.07	0.93	
544	0.0	0.06	0.0	0,2,0	4.18e-06	5.18e-06	0.02	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	2.57e-04	3.38e-05	0.0	38,35,0	3.02e-06	3.03e-04	1.21e-05	44,38,33			1.00	0.07	0.93	
550	0.0	0.02	0.0	0,2,0	4.68e-05	3.95e-06	5.90e-03	34,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.33e-03	1.19e-03	0.0	44,35,0	4.67e-05	1.59e-03	3.38e-04	34,44,35			1.00	0.07	0.93	
557	0.0	0.04	0.0	0,38,0	2.62e-05	3.44e-06	0.01	45,28,38	0.0	0	0.0	0.0	0.0	0.0
	2.85e-04	4.88e-04	0.0	35,2,0	2.61e-05	3.38e-04	1.39e-04	45,35,2			1.00	0.07	0.93	
559	0.0	0.02	0.0	0,2,0	4.38e-05	3.61e-06	5.90e-03	34,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.07e-03	8.62e-04	0.0	44,35,0	4.37e-05	1.26e-03	2.44e-04	34,44,35			1.00	0.07	0.93	
565	0.0	0.04	0.0	0,38,0	4.84e-05	4.89e-06	0.01	46,18,38	0.0	0	0.0	0.0	0.0	0.0
	2.85e-04	1.03e-03	0.0	35,2,0	4.83e-05	3.38e-04	2.92e-04	46,35,2			1.00	0.07	0.93	
568	0.0	0.02	0.0	0,2,0	4.21e-05	2.04e-06	5.93e-03	34,2,2	0.0	0	0.0	0.0	0.0	0.0
	9.41e-04	5.90e-04	0.0	38,35,0	4.20e-05	1.11e-03	1.67e-04	34,38,35			1.00	0.07	0.93	
572	0.0	0.04	0.0	0,2,0	4.84e-05	6.54e-06	0.01	46,18,2	0.0	0	0.0	0.0	0.0	0.0
	3.78e-04	1.03e-03	0.0	45,2,0	4.83e-05	4.47e-04	2.92e-04	46,45,2			1.00	0.07	0.93	
574	0.0	0.02	0.0	0,2,0	4.13e-05	2.88e-06	6.18e-03	34,23,2	0.0	0	0.0	0.0	0.0	0.0
	1.10e-03	3.47e-04	0.0	2,35,0	4.12e-05	1.31e-03	9.84e-05	34,2,35			1.00	0.07	0.93	
579	0.0	0.04	0.0	0,2,0	3.79e-05	6.54e-06	0.01	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	3.78e-04	5.01e-04	0.0	45,2,0	3.76e-05	4.47e-04	1.44e-04	44,45,2			1.00	0.07	0.93	
581	0.0	0.02	0.0	0,2,0	4.09e-05	4.96e-06	7.51e-03	34,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.58e-03	1.60e-04	0.0	28,45,0	4.08e-05	1.87e-03	4.60e-05	34,28,45			1.00	0.07	0.93	
587	0.0	0.02	0.0	0,2,0	3.65e-05	5.16e-06	7.51e-03	34,23,2	0.0	0	0.0	0.0	0.0	0.0
	1.58e-03	3.20e-04	0.0	28,43,0	3.65e-05	1.87e-03	9.61e-05	34,28,44			1.00	0.07	0.93	
593	0.0	0.02	0.0	0,2,0	9.11e-06	1.31e-04	8.27e-03	34,18,2	0.0	0	0.0	0.0	0.0	0.0
	6.43e-05	1.37e-03	0.0	45,38,0	9.06e-06	7.79e-05	4.31e-04	34,45,38			1.00	0.07	0.93	
611	0.0	0.01	0.0	0,2,0	3.65e-05	5.16e-06	4.75e-03	34,23,2	0.0	0	0.0	0.0	0.0	0.0
	1.14e-03	3.20e-04	0.0	2,43,0	3.65e-05	1.35e-03	9.61e-05	34,2,44			1.00	0.07	0.93	
636	0.0	0.02	0.0	0,2,0	9.11e-06	1.31e-04	8.27e-03	34,18,2	0.0	0	0.0	0.0	0.0	0.0
	6.43e-05	1.37e-03	0.0	45,38,0	9.06e-06	7.79e-05	4.31e-04	34,45,38			1.00	0.07	0.93	
854	0.0	8.76e-03	0.0	0,2,0	2.67e-05	2.75e-05	3.16e-03	45,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.68e-03	2.22e-03	0.0	44,34,0	2.66e-05	1.98e-03	6.56e-04	45,44,34			1.00	0.07	0.93	
875	0.0	0.02	0.0	0,2,0	1.36e-04	6.67e-06	8.44e-03	44,23,2	0.0	0	0.0	0.0	0.0	0.0
	7.94e-04	1.97e-03	0.0	45,34,0	1.36e-04	9.36e-04	5.58e-04	44,45,34			1.00	0.07	0.93	
886	0.0	0.02	0.0	0,2,0	1.36e-04	6.67e-06	8.44e-03	44,23,2	0.0	0	0.0	0.0	0.0	0.0
	7.94e-04	1.97e-03	0.0	45,34,0	1.36e-04	9.36e-04	5.58e-04	44,45,34			1.00	0.07	0.93	
891	0.0	0.02	0.0	0,2,0	3.87e-05	2.75e-05	5.42e-03	34,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.87e-03	2.22e-03	0.0	44,34,0	3.86e-05	2.20e-03	6.56e-04	34,44,34			1.00	0.07	0.93	
899	0.0	0.02	0.0	0,2,0	3.87e-05	1.52e-05	5.70e-03	34,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.87e-03	1.74e-03	0.0	44,35,0	3.86e-05	2.20e-03	4.94e-04	34,44,35			1.00	0.07	0.93	
900	0.0	0.06	0.0	0,2,0	4.15e-06	4.63e-06	0.02	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	6.14e-04	3.41e-04	0.0	44,35,0	3.02e-06	7.24e-04	9.66e-05	44,44,35			1.00	0.07	0.93	
902	0.0	0.06	0.0	0,2,0	4.15e-06	4.63e-06	0.02	44,24,2	0.0	0	0.0	0.0	0.0	0.0
	6.14e-04	3.41e-04	0.0	44,35,0	3.02e-06	7.24e-04	9.66e-05	44,44,35			1.00	0.07	0.93	
908	0.0	0.02	0.0	0,2,0	3.80e-05	6.89e-06	5.74e-03	34,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.58e-03	1.37e-03	0.0	44,35,0	3.80e-05	1.87e-03	3.88e-04	34,44,35			1.00	0.07	0.93	
915	0.0	0.04	0.0	0,2,0	6.71e-05	5.68e-06	0.01	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	5.66e-04	2.52e-03	0.0	45,28,0	6.67e-05	6.67e-04	7.17e-04	34,45,28			1.00	0.07	0.93	
917	0.0	0.02	0.0	0,2,0	3.79e-05	3.58e-06	5.74e-03	34,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.29e-03	1.06e-03	0.0	44,35,0	3.79e-05	1.53e-03	3.00e-04	34,44,35			1.00	0.07	0.93	
923	0.0	0.04	0.0	0,2,0	6.71e-05	5.68e-06	0.01	34,28,2	0.0	0	0.0	0.0	0.0	0.0
	5.66e-04	2.75e-03	0.0	45,28,0	6.67e-05	6.67e-04	7.83e-04	34,45,28			1.00	0.07	0.93	
926	0.0	0.02	0.0	0,2,0	3.71e-05	1.71e-06	5.76e-03	34,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.10e-03	7.98e-04	0.0	38,35,0	3.71e-05	1.30e-03	2.26e-04	34,38,35			1.00	0.07	0.93	
930	0.0	0.04	0.0	0,2,0	8.31e-05	6.42e-06	0.01	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.75e-03	0.0	0,28,0	8.27e-05	3.54e-05	7.83e-04	44,18,28			0.0	0.0	0.0	0.0
932	0.0	0.02	0.0	0,2,0	3.58e-05	2.22e-06	5.95e-03	34,23,2	0.0	0	0.0	0.0	0.0	0.0
	1.10e-03	5.58e-04	0.0	2,35,0	3.57e-05	1.31e-03	1.58e-04	34,2,35			1.00	0.07	0.93	
937	0.0	0.04	0.0	0,2,0	8.31e-05	6.42e-06	0.01	44,18,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	2.33e-03	0.0	0,38,0	8.27e-05	3.54e-05	6.80e-04	44,18,38			0.0	0.0	0.0	0.0
939	0.0	0.02	0.0	0,2,0	3.43e-05	4.64e-06	6.54e-03	45,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.58e-03	3.22e-04	0.0	2,35,0	3.43e-05	1.86e-03	9.19e-05	45,2,35			1.00	0.07	0.93	
945	0.0	0.02	0.0	0,2,0	3.43e-05	7.34e-06	6.54e-03	45,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.58e-03	8.39e-05	0.0	2,35,0	3.43e-05	1.86e-03	2.48e-05	45,2,35			1.00	0.07	0.93	
951	0.0	0.04	0.0	0,2,0	9.30e-05	1.31e-04	0.01	28,18,2	0.0	0	0.0	0.0	0.0	0.0
	6.82e-04	2.58e-03	0.0	45,28,0	9.23e-05	8.08e-04	7.28e-04	28,45,28			1.00	0.07	0.93	
969	0.0	0.01	0.0	0,2,0	2.56e-05	7.34e-06	5.29e-03	45,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.14e-03	0.0	0.0	2,0,0	2.56e-05	1.35e-03	1.27e-05	45,2,2			1.00	0.07	0.93	
994	0.0	0.04	0.0	0,2,0	9.30e-05	1.31e-04	0.01	28,18,2	0.0	0	0.0	0.0	0.0	0.0

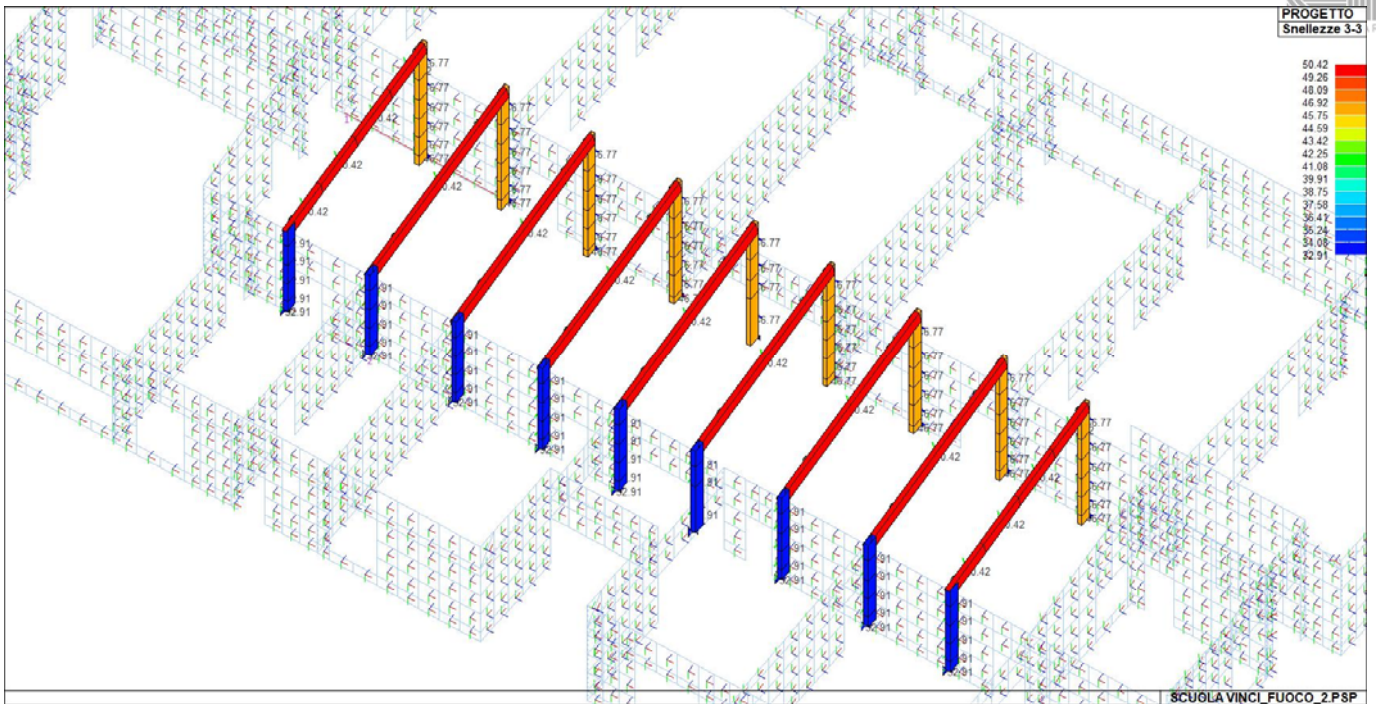


1265	6.82e-04	2.58e-03	0.0	45,28,0	9.23e-05	8.08e-04	7.28e-04	28,45,28	1.00	0.07	0.93
	0.0	8.98e-03	0.0	0,2,0	2.95e-05	3.92e-05	3.26e-03	44,8,2	0.0	0.0	0.0
	1.68e-03	2.14e-03	0.0	44,35,0	2.95e-05	1.98e-03	6.10e-04	44,44,35	1.00	0.07	0.93
1286	0.0	0.02	0.0	0,2,0	2.43e-04	1.61e-05	8.44e-03	2,23,2	0.0	0.0	0.0
	3.56e-03	2.07e-03	0.0	38,35,0	2.43e-04	4.19e-03	5.91e-04	2,38,35	1.00	0.07	0.93
1296	0.0	0.02	0.0	0,2,0	2.43e-04	1.61e-05	8.44e-03	2,23,2	0.0	0.0	0.0
	8.95e-03	2.83e-03	0.0	38,35,0	2.43e-04	0.01	8.04e-04	2,38,35	1.00	0.07	0.93
1301	0.0	0.01	0.0	0,2,0	2.95e-05	3.92e-05	5.17e-03	44,8,2	0.0	0.0	0.0
	1.87e-03	2.14e-03	0.0	44,35,0	2.95e-05	2.20e-03	6.10e-04	44,44,35	1.00	0.07	0.93
1308	0.0	0.02	0.0	0,2,0	2.81e-05	1.52e-05	5.52e-03	34,12,2	0.0	0.0	0.0
	1.87e-03	1.74e-03	0.0	44,35,0	2.80e-05	2.20e-03	4.94e-04	34,44,35	1.00	0.07	0.93
1309	0.0	0.06	0.0	0,2,0	4.49e-05	6.97e-06	0.02	38,24,2	0.0	0.0	0.0
	0.01	2.83e-03	0.0	38,35,0	4.49e-05	0.01	8.04e-04	38,38,35	1.00	0.07	0.93
1311	0.0	0.06	0.0	0,2,0	8.44e-05	6.97e-06	0.02	28,24,2	0.0	0.0	0.0
	0.01	3.71e-03	0.0	38,35,0	8.43e-05	0.01	1.05e-03	28,38,35	1.00	0.07	0.93
1317	0.0	0.02	0.0	0,2,0	2.99e-05	6.89e-06	5.53e-03	34,8,2	0.0	0.0	0.0
	1.58e-03	1.37e-03	0.0	44,35,0	2.98e-05	1.87e-03	3.88e-04	34,44,35	1.00	0.07	0.93
1323	0.0	0.04	0.0	0,2,0	1.07e-04	5.68e-06	0.01	2,28,2	0.0	0.0	0.0
	9.05e-03	3.71e-03	0.0	44,35,0	1.07e-04	0.01	1.05e-03	2,44,35	1.00	0.07	0.93
1325	0.0	0.02	0.0	0,2,0	2.99e-05	3.58e-06	5.53e-03	34,12,2	0.0	0.0	0.0
	1.29e-03	1.06e-03	0.0	44,35,0	2.98e-05	1.53e-03	3.00e-04	34,44,35	1.00	0.07	0.93
1330	0.0	0.04	0.0	0,2,0	1.07e-04	5.68e-06	0.01	2,28,2	0.0	0.0	0.0
	5.47e-03	3.23e-03	0.0	44,35,0	1.07e-04	6.45e-03	9.14e-04	2,44,35	1.00	0.07	0.93
1338	0.0	0.02	0.0	0,2,0	3.00e-05	2.72e-06	5.50e-03	45,28,2	0.0	0.0	0.0
	1.10e-03	7.98e-04	0.0	38,35,0	3.00e-05	1.30e-03	2.26e-04	45,38,35	1.00	0.07	0.93
1342	0.0	0.04	0.0	0,2,0	9.09e-05	1.46e-05	0.01	38,18,2	0.0	0.0	0.0
	2.64e-03	2.75e-03	0.0	44,28,0	9.05e-05	3.13e-03	7.83e-04	38,44,28	1.00	0.07	0.93
1347	0.0	0.02	0.0	0,2,0	3.10e-05	2.72e-06	5.64e-03	45,28,2	0.0	0.0	0.0
	9.99e-04	5.81e-04	0.0	38,35,0	3.10e-05	1.18e-03	1.68e-04	45,2,35	1.00	0.07	0.93
1351	0.0	0.04	0.0	0,2,0	1.36e-04	2.12e-05	0.01	38,24,2	0.0	0.0	0.0
	4.84e-03	2.33e-03	0.0	2,38,0	1.35e-04	5.79e-03	6.80e-04	38,2,38	1.00	0.07	0.93
1355	0.0	0.02	0.0	0,2,0	3.30e-05	4.35e-06	5.85e-03	43,14,2	0.0	0.0	0.0
	1.17e-03	3.85e-04	0.0	2,35,0	3.30e-05	1.39e-03	1.10e-04	43,2,35	1.00	0.07	0.93
1360	0.0	9.04e-03	0.0	0,2,0	2.86e-04	2.12e-05	3.26e-03	28,24,2	0.0	0.0	0.0
	4.84e-03	1.74e-03	0.0	2,35,0	2.86e-04	5.79e-03	4.94e-04	28,2,35	1.00	0.07	0.93
1363	0.0	0.02	0.0	0,2,0	3.30e-05	2.20e-05	5.85e-03	43,12,2	0.0	0.0	0.0
	1.17e-03	2.74e-04	0.0	2,45,0	3.30e-05	1.39e-03	8.03e-05	43,2,45	1.00	0.07	0.93
1368	0.0	0.04	0.0	0,2,0	3.87e-04	1.28e-04	0.01	2,12,2	0.0	0.0	0.0
	4.18e-03	2.59e-03	0.0	44,34,0	3.86e-04	4.96e-03	7.35e-04	2,44,34	1.00	0.07	0.93
1383	0.0	0.02	0.0	0,2,0	2.44e-05	2.20e-05	5.46e-03	45,12,2	0.0	0.0	0.0
	1.07e-03	2.74e-04	0.0	2,45,0	2.44e-05	1.28e-03	8.03e-05	45,2,45	1.00	0.07	0.93
1415	0.0	0.04	0.0	0,2,0	3.87e-04	1.28e-04	0.01	2,12,2	0.0	0.0	0.0
	1.74e-03	2.59e-03	0.0	45,34,0	3.86e-04	2.06e-03	7.35e-04	2,45,34	1.00	0.07	0.93
1748	0.0	8.98e-03	0.0	0,2,0	5.99e-05	3.92e-05	3.26e-03	44,8,2	0.0	0.0	0.0
	9.78e-04	1.37e-03	0.0	45,34,0	5.97e-05	1.19e-03	4.76e-04	44,44,34	1.00	0.07	0.93
1777	0.0	0.02	0.0	0,2,0	5.89e-04	1.61e-05	6.60e-03	2,23,2	0.0	0.0	0.0
	3.56e-03	2.07e-03	0.0	38,35,0	5.89e-04	4.19e-03	5.91e-04	2,38,35	1.00	0.07	0.93
1788	0.0	0.02	0.0	0,2,0	5.89e-04	1.61e-05	6.60e-03	2,23,2	0.0	0.0	0.0
	8.95e-03	3.37e-03	0.0	38,28,0	5.89e-04	0.01	9.69e-04	2,38,28	1.00	0.07	0.93
1798	0.0	0.01	0.0	0,2,0	5.99e-05	3.92e-05	5.15e-03	44,8,2	0.0	0.0	0.0
	1.19e-03	1.64e-03	0.0	44,28,0	5.97e-05	1.44e-03	5.21e-04	44,44,28	1.00	0.07	0.93
1811	0.0	0.01	0.0	0,2,0	2.37e-05	1.76e-05	5.35e-03	45,8,2	0.0	0.0	0.0
	1.19e-03	1.64e-03	0.0	44,28,0	2.37e-05	1.44e-03	5.21e-04	45,44,28	1.00	0.07	0.93
1812	0.0	0.04	0.0	0,2,0	4.49e-05	1.74e-05	0.01	38,18,2	0.0	0.0	0.0
	0.01	3.87e-03	0.0	38,28,0	4.49e-05	0.01	1.10e-03	38,38,28	1.00	0.07	0.93
1815	0.0	0.04	0.0	0,2,0	8.44e-05	1.74e-05	0.01	28,18,2	0.0	0.0	0.0
	0.01	3.87e-03	0.0	38,28,0	8.43e-05	0.01	1.10e-03	28,38,28	1.00	0.07	0.93
1826	0.0	0.01	0.0	0,2,0	2.54e-05	1.76e-05	5.35e-03	45,8,2	0.0	0.0	0.0
	1.00e-03	1.29e-03	0.0	44,34,0	2.54e-05	1.18e-03	3.68e-04	45,44,34	1.00	0.07	0.93
1835	0.0	0.03	0.0	0,2,0	1.30e-04	3.90e-06	0.01	2,24,2	0.0	0.0	0.0
	9.05e-03	3.71e-03	0.0	44,35,0	1.30e-04	0.01	1.05e-03	2,44,35	1.00	0.07	0.93
1840	0.0	0.01	0.0	0,2,0	2.62e-05	1.21e-05	5.30e-03	45,18,2	0.0	0.0	0.0
	9.45e-04	1.06e-03	0.0	44,34,0	2.62e-05	1.15e-03	3.24e-04	45,44,34	1.00	0.07	0.93
1846	0.0	0.03	0.0	0,2,0	1.30e-04	3.90e-06	0.01	2,24,2	0.0	0.0	0.0
	5.47e-03	3.23e-03	0.0	44,35,0	1.30e-04	6.45e-03	9.14e-04	2,44,35	1.00	0.07	0.93
1854	0.0	0.01	0.0	0,2,0	2.69e-05	1.21e-05	5.25e-03	45,18,2	0.0	0.0	0.0
	9.45e-04	9.23e-04	0.0	44,35,0	2.69e-05	1.15e-03	2.85e-04	45,44,36	1.00	0.07	0.93
1859	0.0	0.03	0.0	0,2,0	9.73e-05	1.46e-05	0.01	38,18,2	0.0	0.0	0.0
	3.44e-03	2.13e-03	0.0	44,35,0	9.70e-05	4.07e-03	6.03e-04	38,44,36	1.00	0.07	0.93
1864	0.0	0.01	0.0	0,2,0	2.79e-05	4.67e-06	5.29e-03	45,18,2	0.0	0.0	0.0
	9.38e-04	8.00e-04	0.0	44,35,0	2.79e-05	1.12e-03	2.27e-04	45,44,35	1.00	0.07	0.93
1869	0.0	0.03	0.0	0,2,0	1.36e-04	2.12e-05	0.01	38,24,2	0.0	0.0	0.0
	4.84e-03	2.73e-03	0.0	2,34,0	1.35e-04	5.79e-03	7.81e-04	38,2,34	1.00	0.07	0.93
1873	0.0	0.02	0.0	0,2,0	2.96e-05	8.38e-06	5.42e-03	45,24,2	0.0	0.0	0.0
	9.85e-04	5.80e-04	0.0	2,35,0	2.96e-05	1.17e-03	1.67e-04	45,2,35	1.00	0.07	0.93

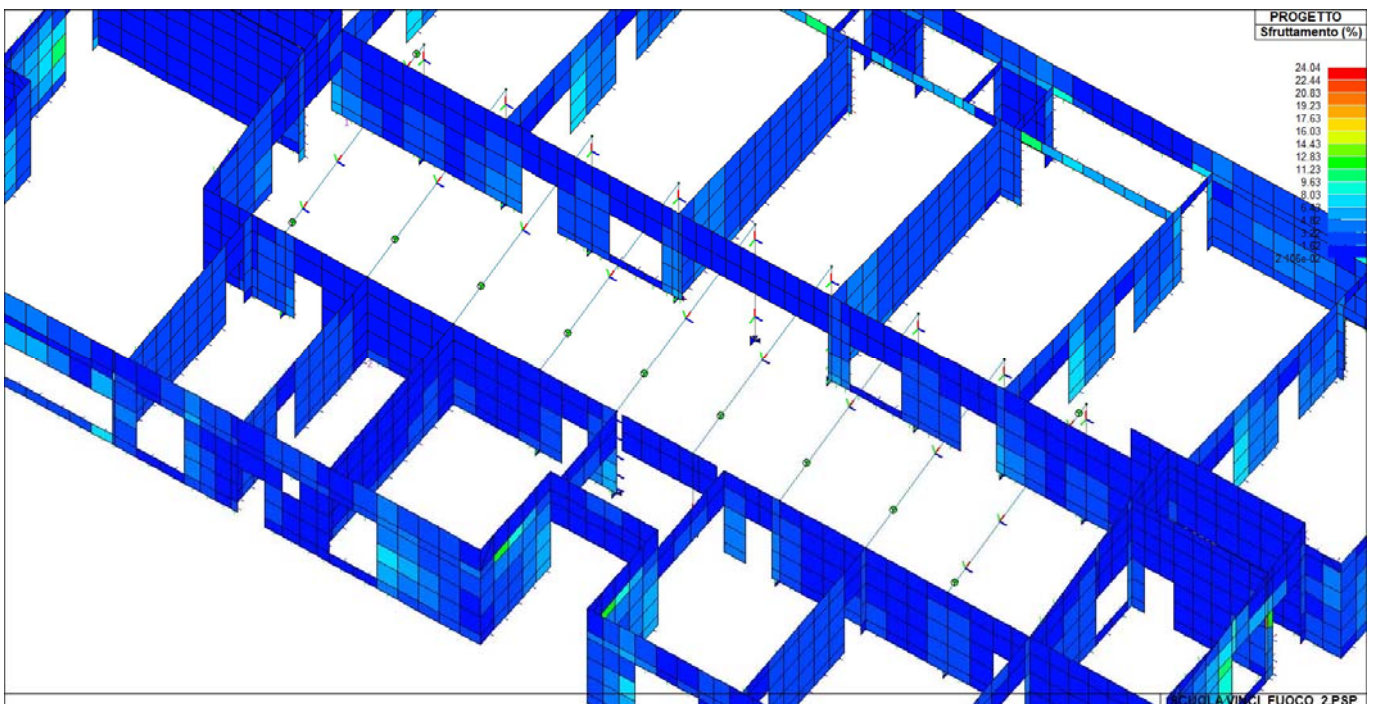
Realizzazione nuova scuola dell'infanzia "Staccia Buratta" nel Comune di Vinci (FI)
 RELAZIONE DI RESISTENZA AL FUOCO



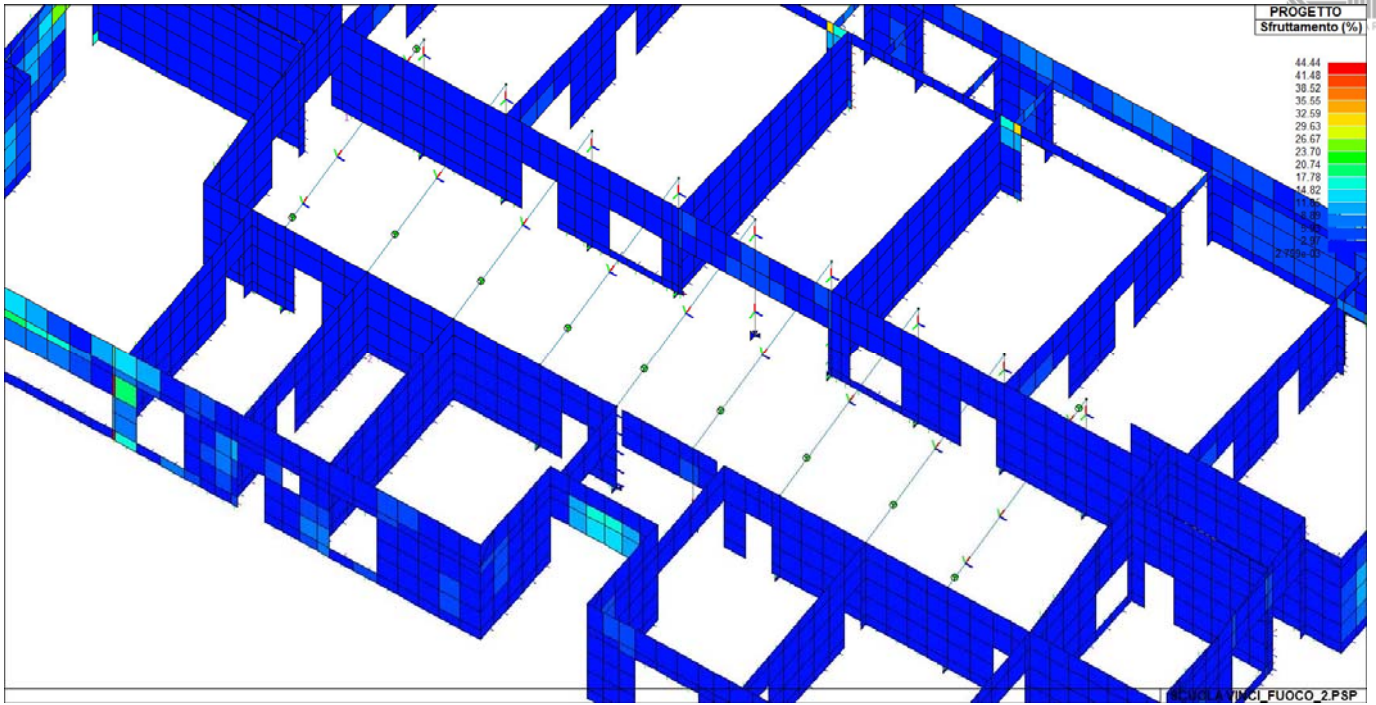
1879	0.0	0.02	0.0	0,2,0	3.28e-04	2.12e-05	6.19e-03	2,24,2	0.0	0	0.0	0.0	0.0	0.0
	4.84e-03	3.35e-03	0.0	2,28,0	3.28e-04	5.79e-03	1.01e-03	2,2,28			1.00	0.07	0.93	
1882	0.0	0.02	0.0	0,2,0	2.96e-05	2.20e-05	5.46e-03	45,12,2	0.0	0	0.0	0.0	0.0	0.0
	9.85e-04	8.96e-04	0.0	2,44,0	2.96e-05	1.17e-03	2.57e-04	45,2,38			1.00	0.07	0.93	
1888	0.0	0.02	0.0	0,2,0	9.16e-04	1.28e-04	8.34e-03	2,12,2	0.0	0	0.0	0.0	0.0	0.0
	4.18e-03	3.35e-03	0.0	44,28,0	9.15e-04	4.96e-03	1.01e-03	2,44,28			1.00	0.07	0.93	
1906	0.0	0.02	0.0	0,2,0	2.22e-05	2.20e-05	5.46e-03	45,12,2	0.0	0	0.0	0.0	0.0	0.0
	8.03e-04	8.96e-04	0.0	2,44,0	2.22e-05	9.50e-04	2.57e-04	45,2,38			1.00	0.07	0.93	
1938	0.0	0.02	0.0	0,2,0	9.16e-04	1.28e-04	8.34e-03	2,12,2	0.0	0	0.0	0.0	0.0	0.0
	1.74e-03	2.59e-03	0.0	45,34,0	9.15e-04	2.06e-03	7.35e-04	2,45,34			1.00	0.07	0.93	
2359	0.0	8.61e-03	0.0	0,2,0	5.99e-05	2.56e-05	3.13e-03	44,8,2	0.0	0	0.0	0.0	0.0	0.0
	9.78e-04	1.37e-03	0.0	45,34,0	5.97e-05	1.17e-03	4.76e-04	44,45,34			1.00	0.07	0.93	
2383	0.0	0.01	0.0	0,2,0	5.89e-04	9.93e-06	4.83e-03	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.60e-03	1.22e-03	0.0	44,35,0	5.89e-04	1.89e-03	3.51e-04	2,44,35			1.00	0.07	0.93	
2463	0.0	0.02	0.0	0,2,0	5.89e-04	9.93e-06	6.23e-03	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	1.60e-03	3.37e-03	0.0	44,28,0	5.89e-04	1.89e-03	9.69e-04	2,44,28			1.00	0.07	0.93	
2470	0.0	0.01	0.0	0,2,0	5.99e-05	2.56e-05	5.02e-03	44,8,2	0.0	0	0.0	0.0	0.0	0.0
	9.78e-04	1.64e-03	0.0	45,28,0	5.97e-05	1.17e-03	5.21e-04	44,45,28			1.00	0.07	0.93	
2493	0.0	0.01	0.0	0,2,0	2.30e-05	1.76e-05	5.19e-03	45,8,2	0.0	0	0.0	0.0	0.0	0.0
	5.44e-04	1.64e-03	0.0	45,28,0	2.30e-05	6.51e-04	5.21e-04	45,45,28			1.00	0.07	0.93	
2494	0.0	0.03	0.0	0,2,0	4.12e-05	1.74e-05	0.01	38,18,2	0.0	0	0.0	0.0	0.0	0.0
	3.59e-04	3.87e-03	0.0	45,28,0	4.11e-05	4.27e-04	1.10e-03	38,45,28			1.00	0.07	0.93	
2500	0.0	0.03	0.0	0,2,0	7.08e-05	1.74e-05	0.01	28,18,2	0.0	0	0.0	0.0	0.0	0.0
	2.70e-04	3.87e-03	0.0	45,28,0	7.06e-05	3.41e-04	1.10e-03	28,45,28			1.00	0.07	0.93	
2558	0.0	0.01	0.0	0,2,0	2.48e-05	1.76e-05	5.19e-03	45,8,2	0.0	0	0.0	0.0	0.0	0.0
	6.15e-04	1.29e-03	0.0	45,34,0	2.48e-05	7.40e-04	3.68e-04	45,45,34			1.00	0.07	0.93	
2573	0.0	0.02	0.0	0,2,0	1.30e-04	2.80e-06	8.53e-03	2,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.28e-03	3.46e-03	0.0	45,28,0	1.30e-04	1.52e-03	9.86e-04	2,45,28			1.00	0.07	0.93	
2575	0.0	0.01	0.0	0,2,0	2.48e-05	1.21e-05	5.12e-03	45,18,2	0.0	0	0.0	0.0	0.0	0.0
	9.45e-04	1.06e-03	0.0	44,34,0	2.48e-05	1.15e-03	3.24e-04	45,44,34			1.00	0.07	0.93	
2589	0.0	0.02	0.0	0,2,0	1.30e-04	3.50e-06	8.53e-03	2,23,2	0.0	0	0.0	0.0	0.0	0.0
	3.11e-03	1.85e-03	0.0	44,34,0	1.30e-04	3.67e-03	5.25e-04	2,44,34			1.00	0.07	0.93	
2597	0.0	0.01	0.0	0,2,0	2.46e-05	1.21e-05	5.04e-03	45,18,2	0.0	0	0.0	0.0	0.0	0.0
	9.45e-04	9.23e-04	0.0	44,35,0	2.46e-05	1.15e-03	2.85e-04	45,44,36			1.00	0.07	0.93	
2610	0.0	0.02	0.0	0,2,0	9.73e-05	3.63e-06	8.53e-03	38,20,2	0.0	0	0.0	0.0	0.0	0.0
	3.44e-03	1.71e-03	0.0	44,35,0	9.70e-05	4.07e-03	4.86e-04	38,44,35			1.00	0.07	0.93	
2615	0.0	0.01	0.0	0,2,0	2.36e-05	4.67e-06	4.98e-03	45,18,2	0.0	0	0.0	0.0	0.0	0.0
	9.38e-04	8.00e-04	0.0	44,35,0	2.36e-05	1.12e-03	2.27e-04	45,44,35			1.00	0.07	0.93	
2624	0.0	0.02	0.0	0,2,0	9.73e-05	2.02e-05	8.53e-03	38,24,2	0.0	0	0.0	0.0	0.0	0.0
	3.44e-03	2.73e-03	0.0	44,34,0	9.70e-05	4.07e-03	7.81e-04	38,44,34			1.00	0.07	0.93	
2632	0.0	0.01	0.0	0,2,0	2.40e-05	8.38e-06	4.99e-03	45,24,2	0.0	0	0.0	0.0	0.0	0.0
	8.59e-04	5.80e-04	0.0	38,35,0	2.40e-05	1.02e-03	1.67e-04	45,38,35			1.00	0.07	0.93	
2646	0.0	0.02	0.0	0,2,0	3.28e-04	2.02e-05	6.19e-03	2,24,2	0.0	0	0.0	0.0	0.0	0.0
	1.71e-03	3.35e-03	0.0	45,28,0	3.28e-04	2.04e-03	1.01e-03	2,45,28			1.00	0.07	0.93	
2649	0.0	0.01	0.0	0,2,0	2.40e-05	1.72e-05	5.05e-03	45,14,2	0.0	0	0.0	0.0	0.0	0.0
	7.69e-04	8.96e-04	0.0	2,44,0	2.40e-05	9.10e-04	2.57e-04	45,2,38			1.00	0.07	0.93	
2663	0.0	0.02	0.0	0,2,0	9.16e-04	6.50e-05	7.98e-03	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	6.07e-04	3.35e-03	0.0	45,28,0	9.15e-04	7.29e-04	1.01e-03	2,45,28			1.00	0.07	0.93	
2681	0.0	0.01	0.0	0,2,0	1.64e-05	1.72e-05	5.05e-03	43,14,2	0.0	0	0.0	0.0	0.0	0.0
	0.0	8.96e-04	0.0	0,44,0	1.64e-05	4.01e-05	2.57e-04	43,12,38			0.0	0.0	0.0	0.0
2713	0.0	0.02	0.0	0,2,0	9.16e-04	6.50e-05	7.98e-03	2,8,2	0.0	0	0.0	0.0	0.0	0.0
	5.57e-04	1.57e-03	0.0	45,28,0	9.15e-04	6.87e-04	5.01e-04	2,45,28			1.00	0.07	0.93	
Nodo	V. 127	V. 128	V. 545		V. 129	V. 130	V. 131		V. D.26					
	0.01	0.06	0.0		9.16e-04	0.01	0.02		0.0					



74_PRO_LEGD2_SNELLEZZA33



74_PRO_LEGD3_SFRUTTAMENTO



74_PRO_LEGD3_SFRUTTAMENTO_ORI