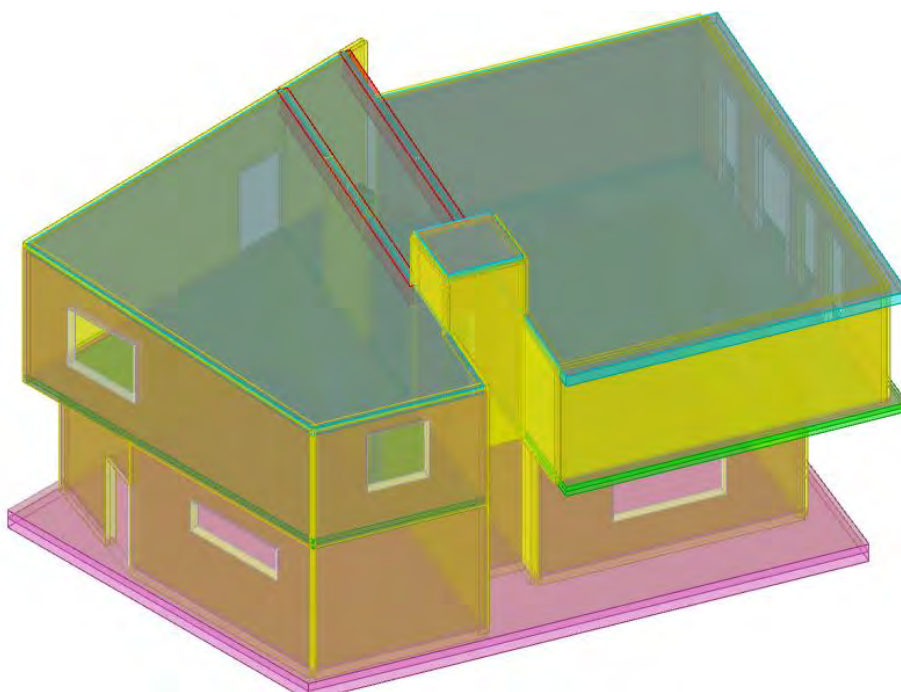


COMUNE DI MAROSTICA
Provincia di VICENZA

REALIZZAZIONE DELLA NUOVA SEDE DELLA PROTEZIONE CIVILE LAVORI 2° STRALCIO

Committente: Amministrazione Comunale di Marostica



PROGETTO DELLE STRUTTURE

RELAZIONE MATERIALI
RELAZIONE ILLUSTRATIVA
RELAZIONE DI CALCOLO

Il progettista Strutturale
Dott. Ing. Eugenio Luzzu

Marostica, settembre 2016

RELAZIONE ILLUSTRATIVA
SULLE CARATTERISTICHE DEI MATERIALI STRUTTURALI IMPIEGATI

Oggetto: Realizzazione della nuova sede della Protezione Civile

Ubicazione: Comune di Marostica, Via della Ceramica Foglio 12 Mappale n° 1628

Committente: Amministrazione Comunale di Marostica

Materiali da impiegare:

- CALCESTRUZZO a prestazione garantita** CARATTERISTICHE SECONDO UNI EN 206-UNI 11104

Elemento strutturale	Classe di resistenza (N/mm ²)	Classi di esposizione	Classe di consistenza	D _{MAX} (mm)
Fondazioni	C25/30	XC2	S3	25
Murature c.a.	C28/35	XC3	S4	20
Solette e altre strutture f.terra	C28/35	XC3	S4	20

- ACCIAIO tondo nervato**

- B450C**

- ACCIAIO per reti e tralicci elettrosaldati**

- B450C**

Marostica, settembre 2016

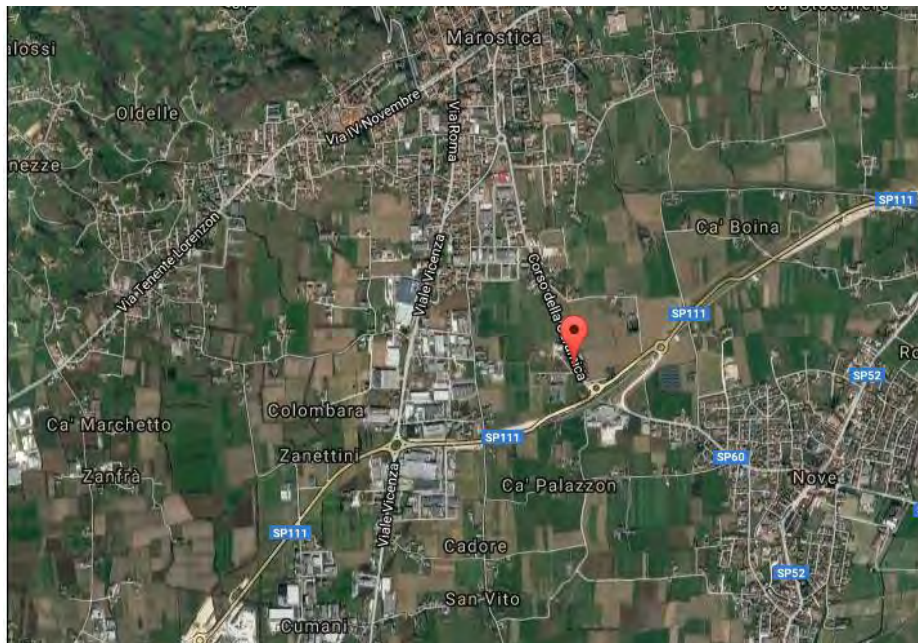
Visto
Il Direttore dei Lavori Strutturale

IL PROGETTISTA
Il Progettista Strutturale

RELAZIONE ILLUSTRATIVA

DESCRIZIONE DELL'EDIFICIO - DEFINIZIONE PARAMETRI SISMICI

L'edificio oggetto della presente relazione di calcolo è in provincia di Vicenza, nel Comune di Marostica, via della Ceramica.



L'edificio sarà adibito a centro della protezione civile, quindi ricade secondo il DGR 3645/03 della regione Veneto nelle strutture di categoria "IV", strutture strategiche.

La struttura viene realizzata con setti in c.a., solai in c.a. e platea di fondazione; le azioni sismiche vengono riprese dai setti in c.a.

Le strutture nel loro complesso non risultano inscrivibili in un rettangolo; per parte della struttura non vi è continuità delle strutture sismo-resistenti, e quindi, al fine delle verifiche, si opta per un'analisi dinamica lineare.

Il progetto strutturale è stato redatto sulla scorta del progetto redatto da Dott. Arch. Francesca Furlanetto.

Sulla scorta di quanto previsto al capitolo C10.2 della Circolare di applicazione delle NTC2008, visto che trattasi di un edificio definito 'strategico' l'analisi e le verifiche sono state svolte con l'ausilio di due diversi codici di calcolo. In particolare

Sismicad versione 12.8 della Concrete;

PRO-Sap della 2.S.I Software

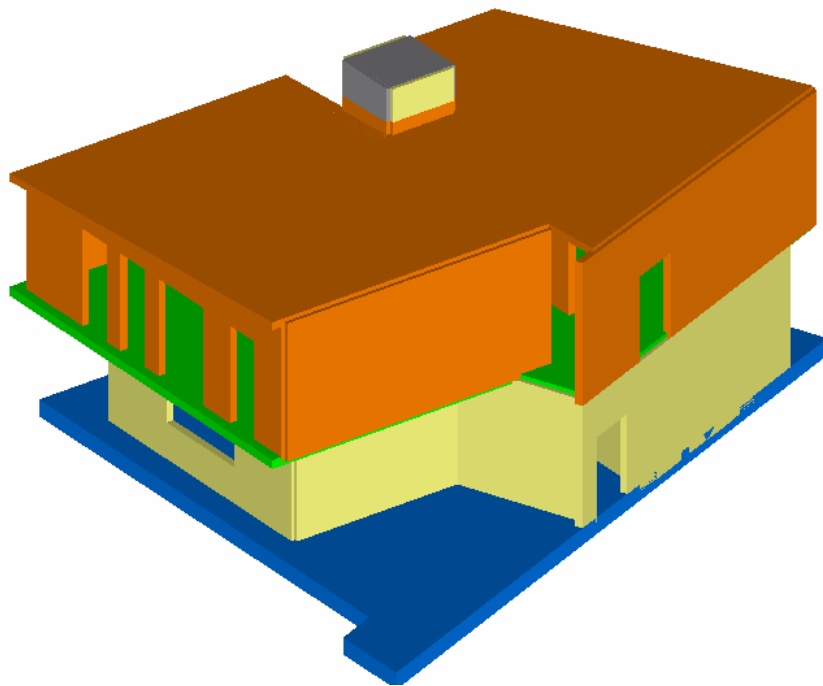


Figura 1-Struttura Edificio

Vista l'Analisi geologica svolta dal Dott. Geologo Umberto Tundo nel sito, in relazione al profilo stratigrafico il suolo di fondazione, al di sotto del piano di fondazione, può essere inserito nella Categoria C (*Punto 3.1 – “Depositi di sabbie e ghiaie mediamente addensate o di argille di media consistenza, con spessori variabili da diverse decine fino a centinaia di metri, caratterizzati da valori di V_{s30} compresi tra 180 m/s e 360 m/s ($15 < NSPT < 50$, $70 < C_u < 250$ kPa”).*

In funzione delle coordinate del sito si sono desunti i parametri sismici per determinare l'accelerogramma relativo allo stato limite di analisi e lo spettro di progetto relativo.

Nella determinazione degli accelerogrammi ridotti di riferimento, si definisce il fattore di struttura in funzione della tipologia strutturale dell'edificio.

Essendoci la presenza di varie situazioni strutturali, cioè di pilastri e setti con aperture, risulta complicato definire in modo univoco un fattore di struttura; si opta quindi per analizzare la struttura ponendo il fattore di struttura pari a 1, cioè svolgere una analisi dinamica lineare elastica.

Come riportato al capitolo 7 delle NTC2008, facendo un'analisi elastica, che sia questa statica o modale, di possono omettere i dettami costruttivi riportati nei paragrafi del capitolo 7.

Determinazione del fattore di struttura:

il fattore di struttura riferito alle azioni orizzontali risulta $q=1$

il fattore di struttura riferito alle azioni verticali se necessario risulta $q=1.5$.

NORMATIVA DI RIFERIMENTO

- D.Min. Infrastrutture Min. Interni e Prot. Civile 14 Gennaio 2008 e allegate "Norme tecniche per le costruzioni".
- Circ. 2 febbraio 2009 Istruzioni per l'applicazione delle nuove Norme tecniche per le costruzioni
- D.M. LL.PP. 11 Marzo 1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione".

METODO DI CALCOLO UTILIZZATO

Il calcolo delle sollecitazioni e le verifiche sono stati condotti secondo gli usuali metodi della Scienza delle Costruzioni, in particolare con il metodo semiprobabilistico degli STATI LIMITE ULTIMI SECONDO D.M. 14.01.2008.

Il calcolo delle sollecitazioni sismiche è stato condotto secondo analisi dinamica lineare elastica. Le verifiche sono state svolte secondo l'Approccio 2 (A1+M1+R3).

La struttura presenta solai infinitamente rigidi nel proprio piano grazie alla realizzazione di struttura in c.a. dello spessore di 24 cm per piano primo e 20 cm per piano secondo.

La verifica di questi solai, e dell'armatura necessaria, verrà riportata nel seguito e in tabulato.

ANALISI DEI CARICHI

CALCOLO DELLE AZIONI DELLA NEVE E DEL VENTO

Normativa di riferimento:

D.M. 14 gennaio 2008 - NORME TECNICHE PER LE COSTRUZIONI
Cap. 3 - AZIONI SULLE COSTRUZIONI - Par. 3.3 e 3.4

Località: MAROSTICA

Provincia: VICENZA

Regione: VENETO

Coordinate GPS:

Latitudine : 45,7316 N

Longitudine: 11,66470 E

Altitudine s.l.m.: 103,0 m

NEVE:

Zona Neve = I Alpina

Ce (coeff. di esposizione al vento) = 1,00

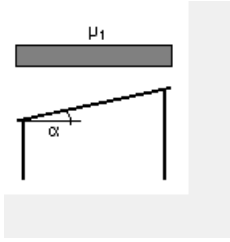
Valore caratteristico del carico al suolo ($q_{sk} C_e$) = 150 daN/mq

Copertura ad una falda:

Angolo di inclinazione della falda angolo = 5,0°

$\mu_1 = 0,80 \Rightarrow Q_1 = 120 \text{ daN/mq}$

Schema di carico:



VENTO:

Zona vento = 1

($V_{b.o} = 25 \text{ m/s}$; $A_o = 1000 \text{ m}$; $K_a = 0,010 \text{ 1/s}$)

Classe di rugosità del terreno: B

[Aree urbane (non di classe A), suburbane, industriali e boschive]

Categoria esposizione: tipo IV

($K_r = 0,22$; $Z_o = 0,30 \text{ m}$; $Z_{min} = 8 \text{ m}$)

Velocità di riferimento = 25,00 m/s

Pressione cinetica di riferimento (q_b) = 39 daN/mq

Coefficiente di forma (C_p) = 1,00

Coefficiente dinamico (C_d) = 1,00

Coefficiente di esposizione (C_e) = 1,63

Coefficiente di esposizione topografica (C_t) = 1,00

Altezza dell'edificio = 8,00 m

Pressione del vento ($p = q_b C_e C_p C_d$) = 64 daN/mq

SOLAIO PIANO PRIMO (soletta $s=24 \text{ cm}$)

- Solaio in c.a. spessore $s=24 \text{ cm}$	=	600 daN/mq
- Isocal per impianti	=	70 daN/mq
- massetto + pavimento	=	<u>140 daN/mq</u>
Carico permanente (G_k)	=	810 daN/mq
Carico variabile –uffici (Q_k)	=	300 daN/mq

1.2. SOLAIO COPERTURA INCLINATO DI 5° IN C.A.

- Soletta $s= 20 \text{ cm}$	=	500 daN/mq
- Doppia guaina + isolante (pannello monopanel)	=	40 daN/mq
- impianti	=	<u>60 daN/mq</u>
Carico permanente (G_k)	=	600 daN/mq
Totale carico variabile (NEVE)	=	120 daN/mq

AZIONE SISMICA

I parametri sismici utilizzati sono i seguenti:

- Vita nominale $V_N \geq 50$ anni (opere ordinarie, ponti, opere infrastrutturali e dighe di dimensioni contenute o di importanza normale)
- Classe d'Uso IV Costruzioni con funzioni pubbliche o strategiche importanti
- Coefficiente d'Uso $C_U = 2.0$ per fabbricati aventi Classe d'Uso IV
- Categoria terreno: C
- Periodo di riferimento per l'azione sismica $V_R = C_U \times V_N = 2.0 \times 50 = 100$ anni

CREAZIONE DEL MODELLO-verifiche agli SLU-DINAMICO

Per la valutazione delle forze sismiche e delle azioni che le combinazioni tra forze orizzontali e verticali (sismiche e statiche) si sono utilizzati il codice di calcolo Sismicad 12.8 e per la verifica di cui al Capitolo C10.2 della Circolare PRO-Sap della 2.S.I Software.

In coda alla presente relazione illustrativa si allegano entrambe le relazioni di calcolo.

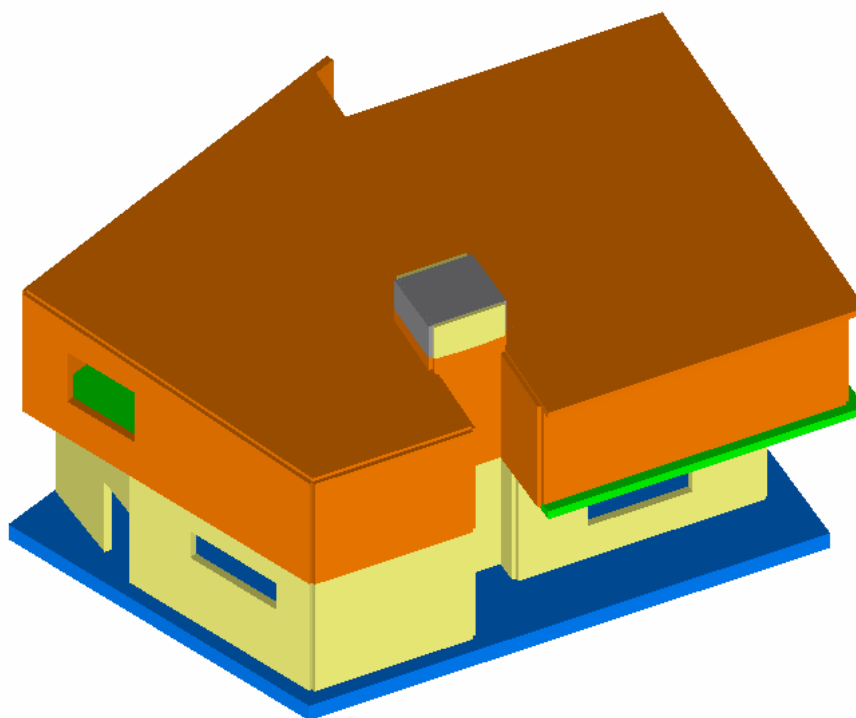


Figura 2-Assonometria struttura

Si riportano di seguito le verifiche agli SLU per fondazioni e murature lasciando le analisi puntuali a fine relazione con tabulato di output programma.

Al fine di garantire l'eccitazione di tutta la massa sismica, che sia comunque questa maggiore dell'85 %, si sono considerati 15 modi di vibrare ottenendo il 99% di massa sismica eccitata (vedi dati tabulato).

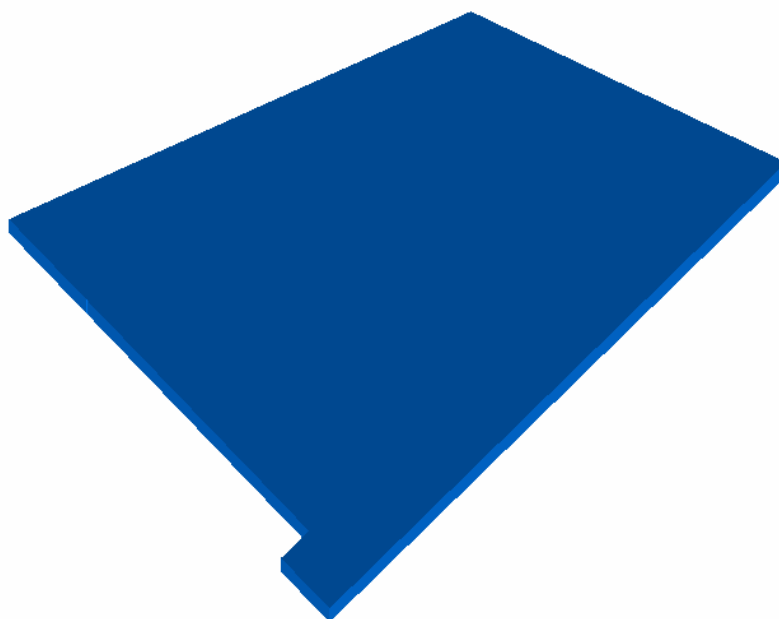


Figura 3-PLATEA

Per l'armatura di base si scelgono barre $\Phi 12/20$ superiori ed inferiori, incrociate di 90° con cls C25/30; ove necessario si aggiungeranno barre integrative $\Phi 14$.
Si riporta, per armatura superiore e inferiore, la massima:

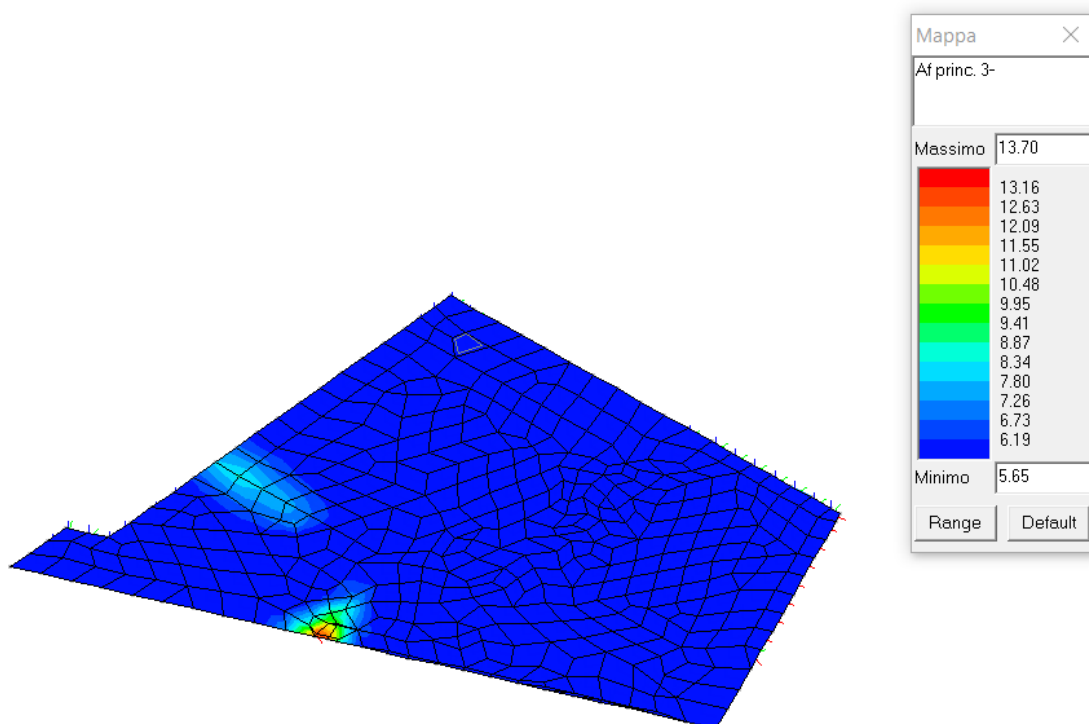


Figura 4-PLATEA-armatura INFERIORE in cmq

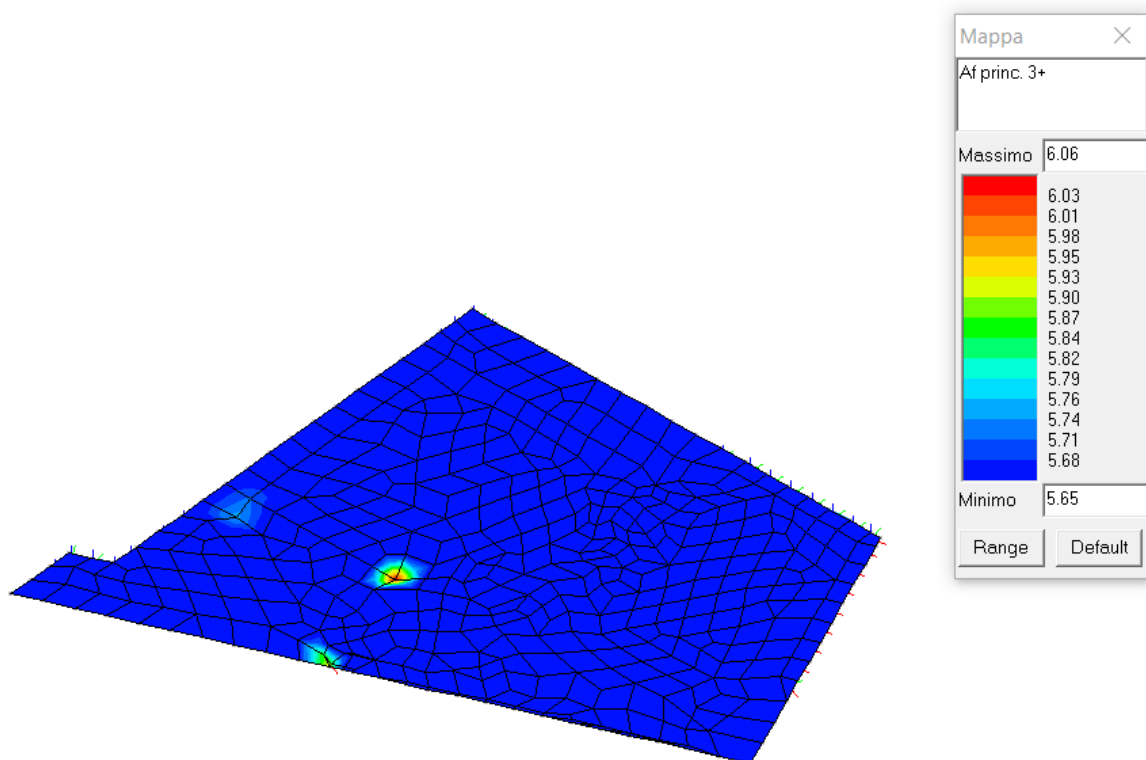


Figura 5-PLATEA-armatura SUPERIORE in cmq

Con l'aggiunta dell'opportuna armatura si raggiunge la verifica.

Sempre in termini di verifica di resistenza allo SLV, si procede alle verifiche delle murature, della soletta di piano primo e piano secondo.

Come in precedenza, si evidenzia l'armatura di base con le zone dove la stessa andrà incrementata; nelle zone d'angolo vengono disposte delle barre $\Phi 16$ (vedi tavole allegate).

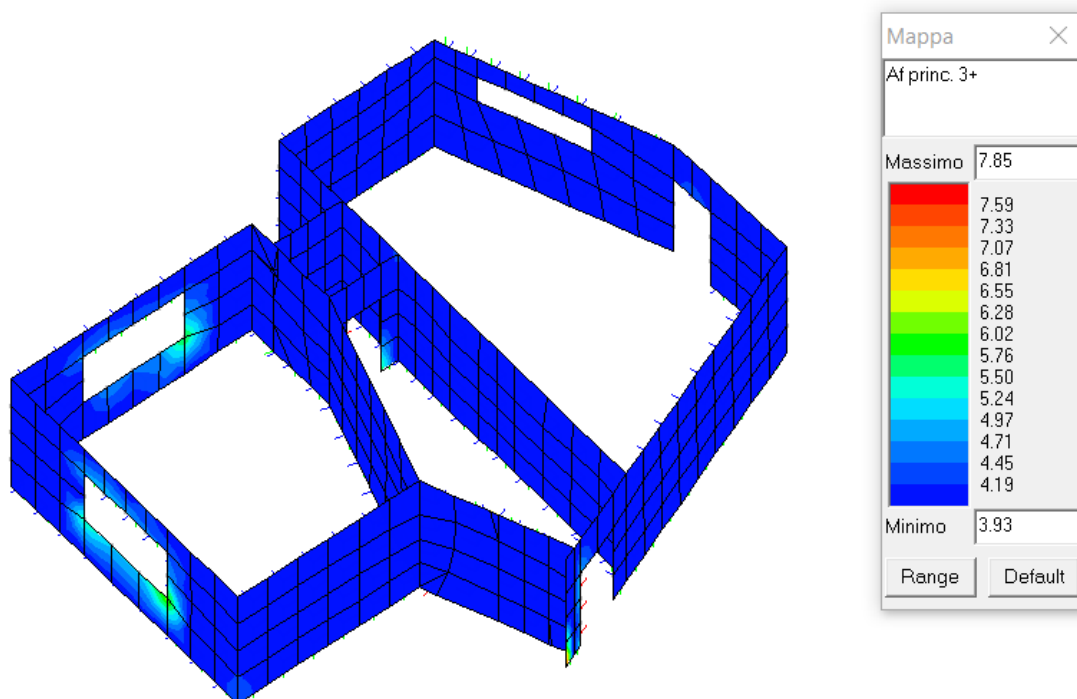


Figura 6-pareti piano terra-Massima armatura verticale in cmq

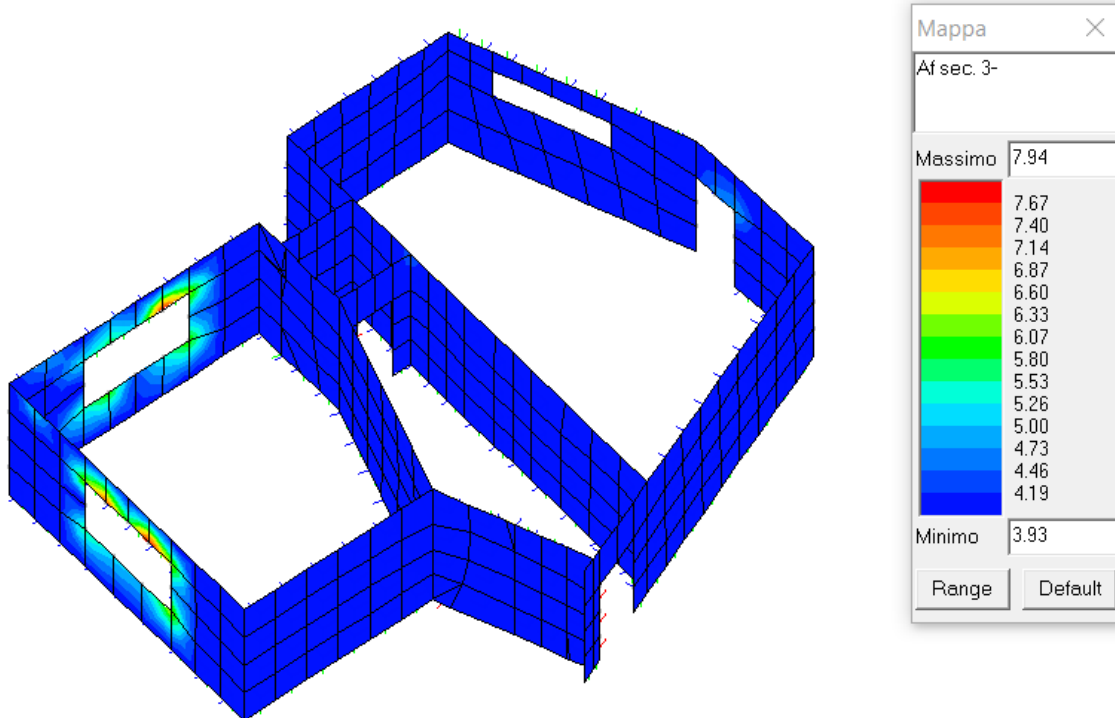


Figura 7-pareti piano terra- Massima armatura orizzontale in cmq

La rete di base per le murature è una rete $\Phi 10/20 \times 20$; nei nodi come attorno ai fori tale armatura viene infittita con staffe $\Phi 10/10$ e barre $\Phi 14$ o 16 .

La soletta di piano primo:

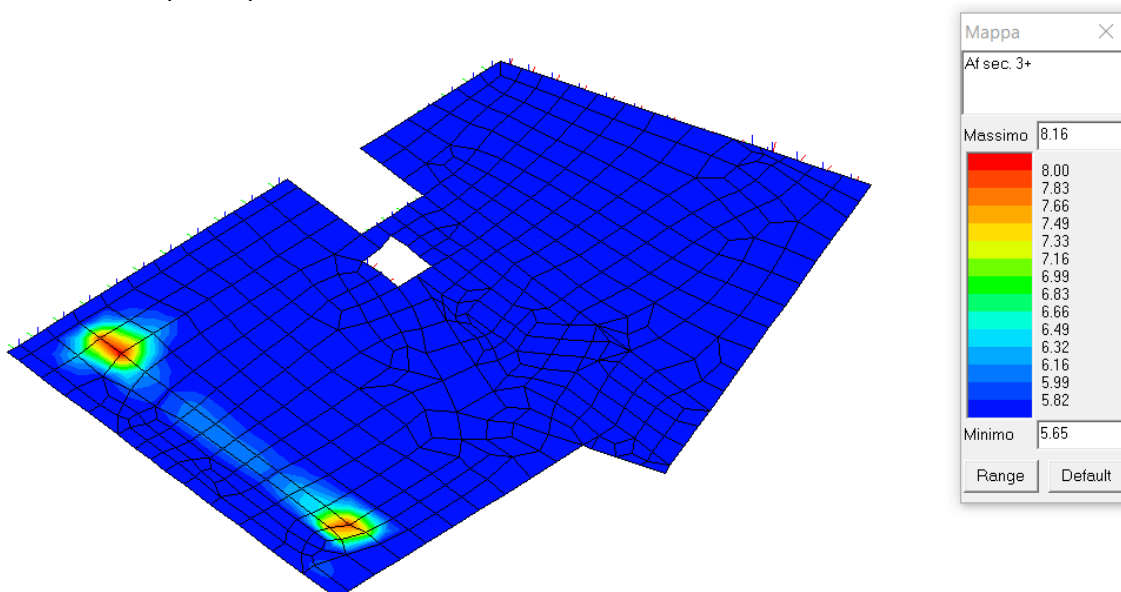


Figura 8-massima armatura superiore longitudinale in cmq

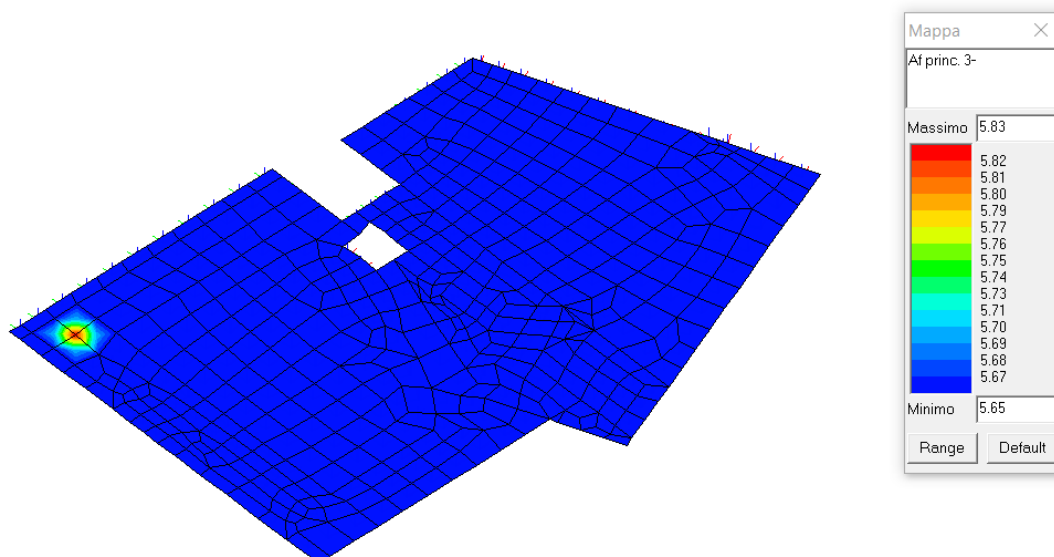


Figura 9-massima armatura trasversale inferiore in cmq

Considerando le lunghezze di ancoraggio delle barre aggiunte alla rete $\Phi 12/20 \times 20$, si preferisce utilizzare maglie in barra $\Phi 16$ superiore e $\Phi 14$ inferiore per la zona frontale con corpo piano primo a sbalzo (vedi disegni).

Sugli angoli con il muro inferiore, serve un'armatura a punzonamento come riportato nella figura sotto:

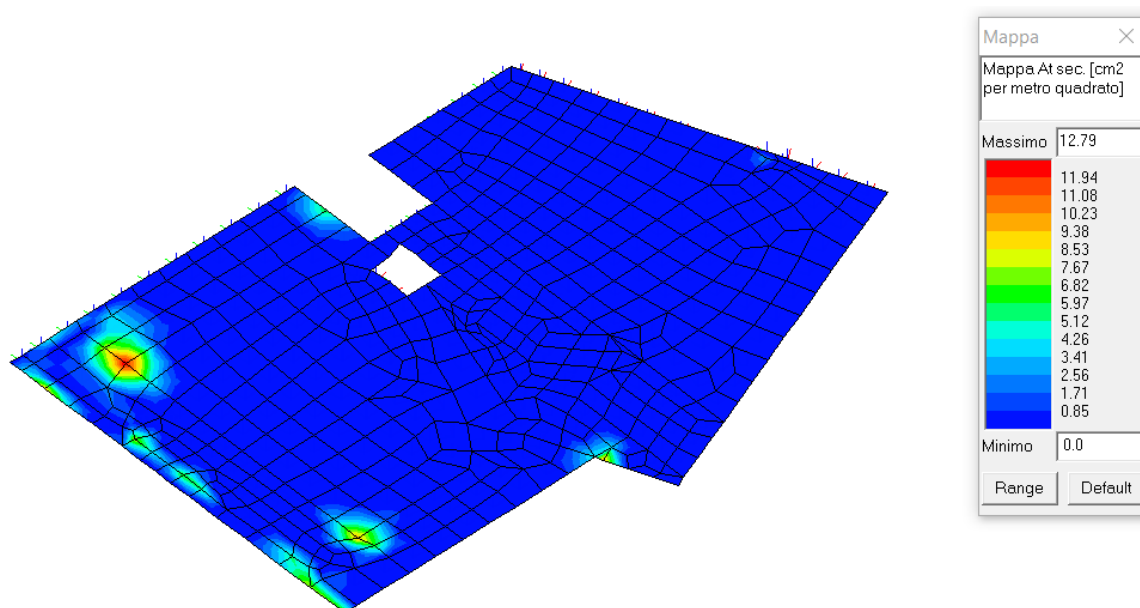


Figura 10-armatura a punzonamento in cmq

Per l'area interessata si dispongono staffe $\Phi 14$ passo 20 4 braccia nei due sensi per la zona di influenza, longitudinale e trasversale.

Con gli stessi criteri di cui sopra si sono disposte le armature per le altre strutture. Muri piano primo e copertura:

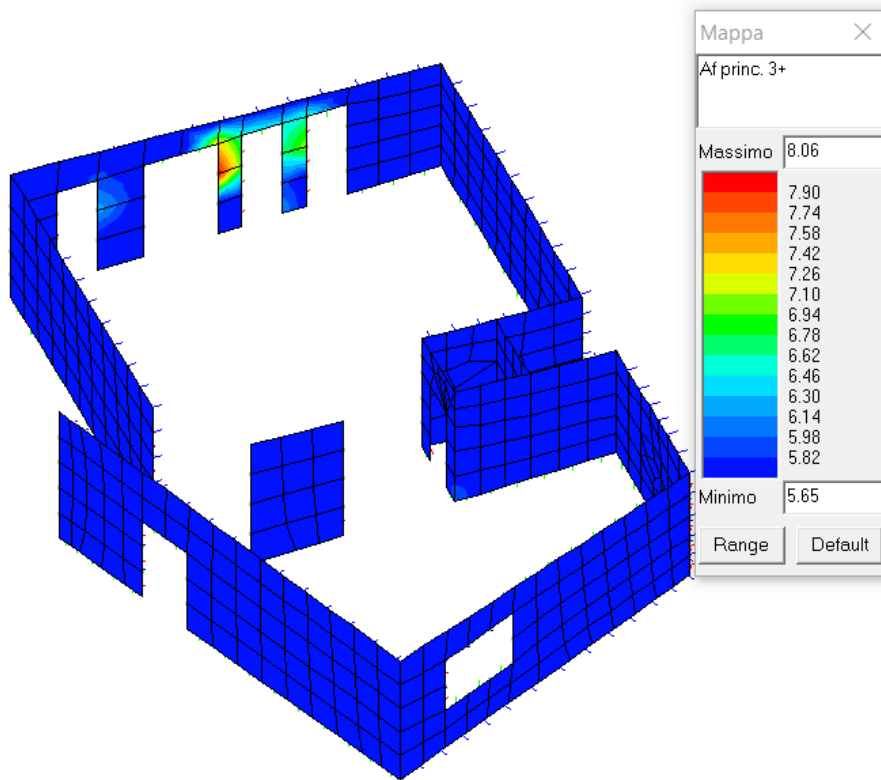


Figura 11-massima armatura orizzontale in cmq

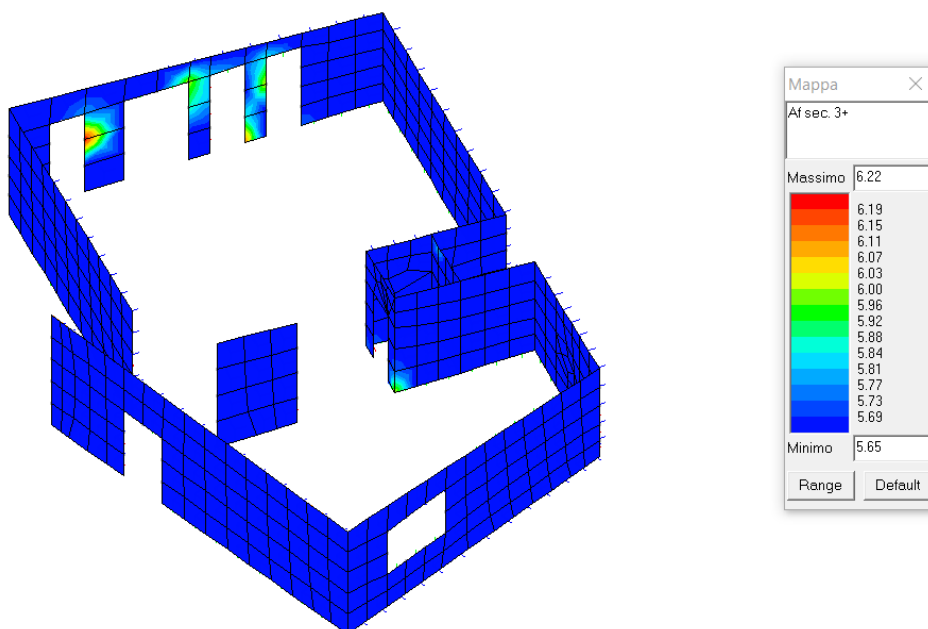


Figura 12-massima armatura verticale in cmq

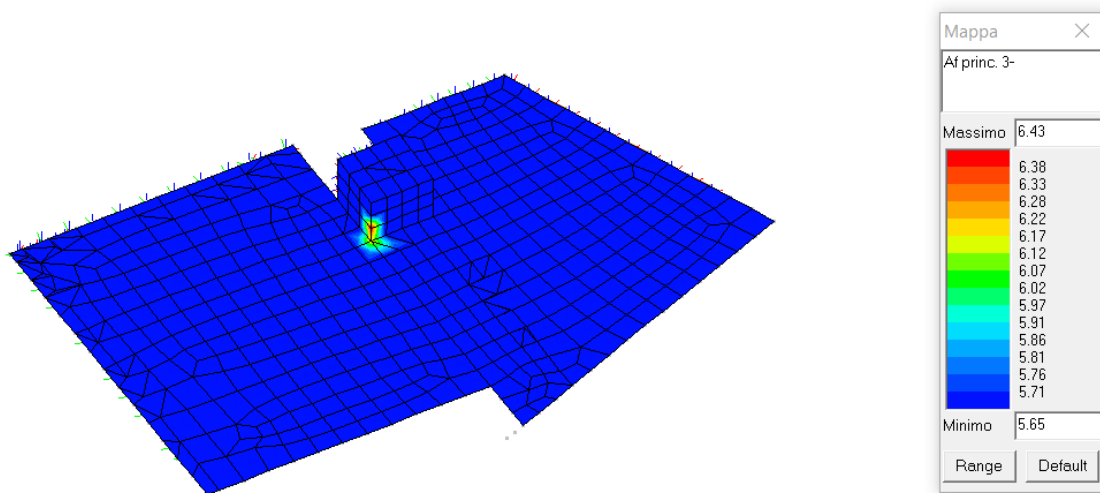


Figura 13-massima armatura inferiore soletta copertura in cmq

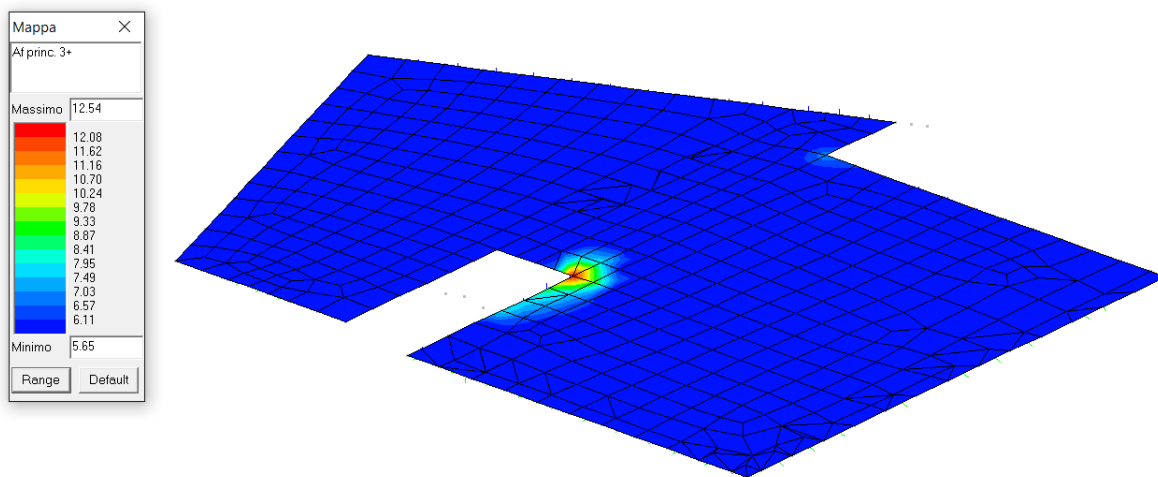


Figura 14-massima armatura superiore soletta in cmq

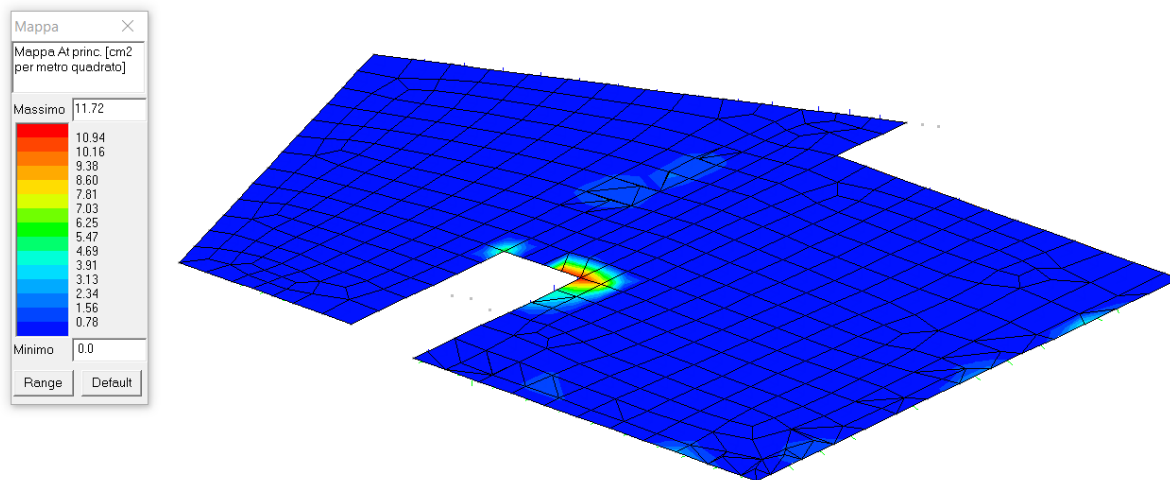


Figura 15-armatura da disporre a punzonamento in cmq

Come si evince da quanto riportato nelle tavole, le armature proposte ben soddisfano quanto richiesto dalla struttura.

Sempre nell'ottica delle verifiche di resistenza del terreno si riporta la pressione massima con approccio 2:

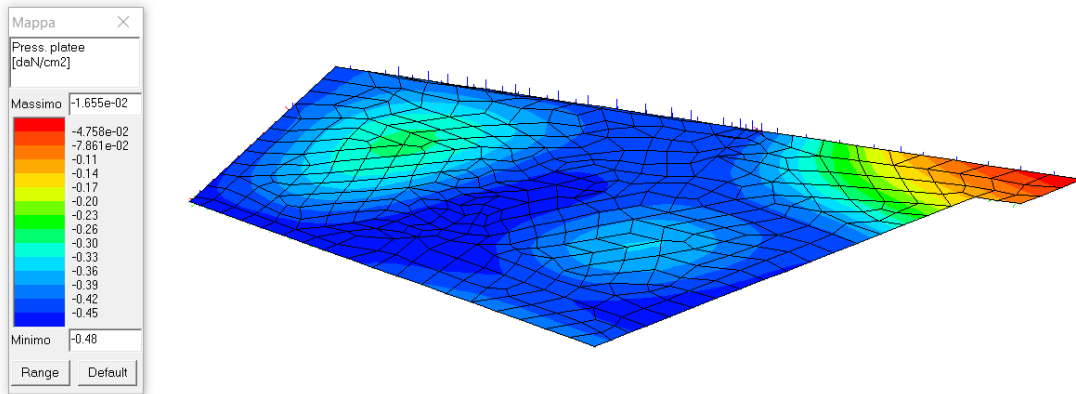


Figura 16-pressione massima in fondazione

La pressione è compatibile col sito.

CREAZIONE DEL MODELLO-verifiche agli SLE

Al fine delle verifiche allo stato limite di esercizio, per le strutture di categoria "IV" si devono sviluppare i seguenti punti:

- SLD in cui si verificano le resistenze delle membrature con un fattore $\eta = 2/3$
 - SLO in cui si valuta che lo spostamento sia inferiori ai $2/3$ dei limiti della NTC 2008, cioè $0.0033h$
1. Per la verifica dello stato limite di danno, la norma prevede di verificare la struttura ponendo il valore che interessa lo smorzamento pari a $2/3$, cioè portare il fattore di struttura a $q=1/(2/3)=1.5$ (circolare C7.3.2) e verificare la resistenza delle strutture allo stato limite di danno, cioè per un sisma con Probabilità di superamento pari al 63%. Si fa osservare che nella analisi delle strutture allo stato limite di collasso, la verifica che si è condotta in precedenza è stata sviluppata con coefficiente di struttura pari a 1 e con un sisma con probabilità di superamento pari a 10%, quindi con un coefficiente che non riduce il sisma dello SLV. Quindi se ora si pone un'azione sismica inferiore (SLD) e un q maggiore rispetto all'unità (1.5) si ottengono delle sollecitazioni sicuramente inferiori alle precedenti; essendo la struttura verificata per le azioni precedenti (SLV e $q=1$) certamente lo sarà anche nel caso in questione. Rimane il fatto che nella verifica allo stato limite di danno i coefficienti di sicurezza debbano essere unitari; ma ciò non è altro che portare la resistenza del materiale ad un livello elastico, pari a porre un fattore $q=1$ nella verifica ad azioni sismiche. Quindi considerare l'azione dello SLV con i coefficienti di sicurezza sui materiali e $q=1$ porta a verifiche sicuramente garantite per lo SLD con $q=1.5$ e no fattori di sicurezza sui materiali.

2. Si riporta a livello visivo la verifica al p.to 2, cioè la verifica dello stato limite di operatività:

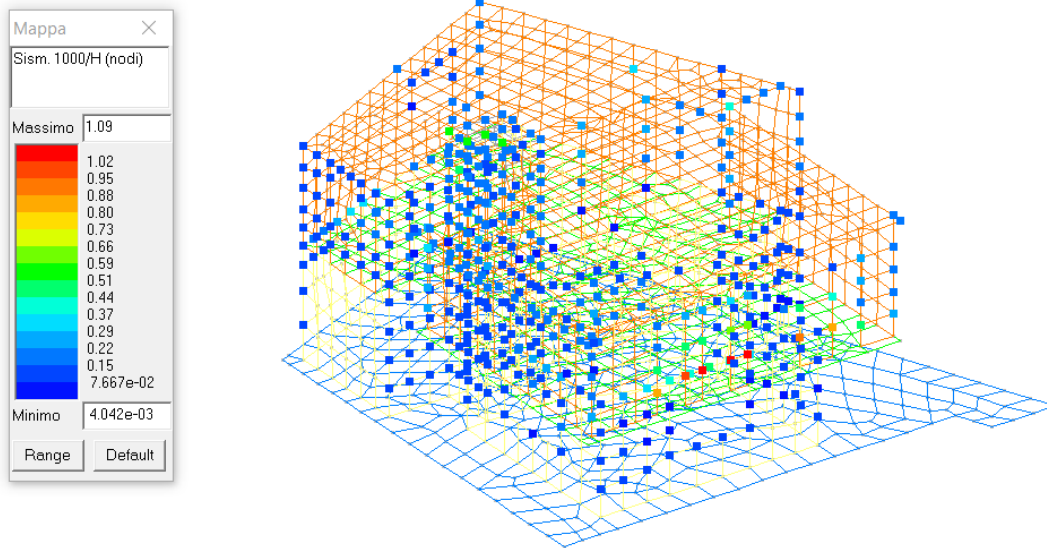


Figura 17-spostamento nodale di interpiano

Si osserva come questo sia inferiore ai limiti di norma ($0.0033h = 2,64 \text{ cm}$)

RAPPRESENTAZIONE GRAFICA SOLLECITAZIONI PIU' RAPPRESENTATIVE

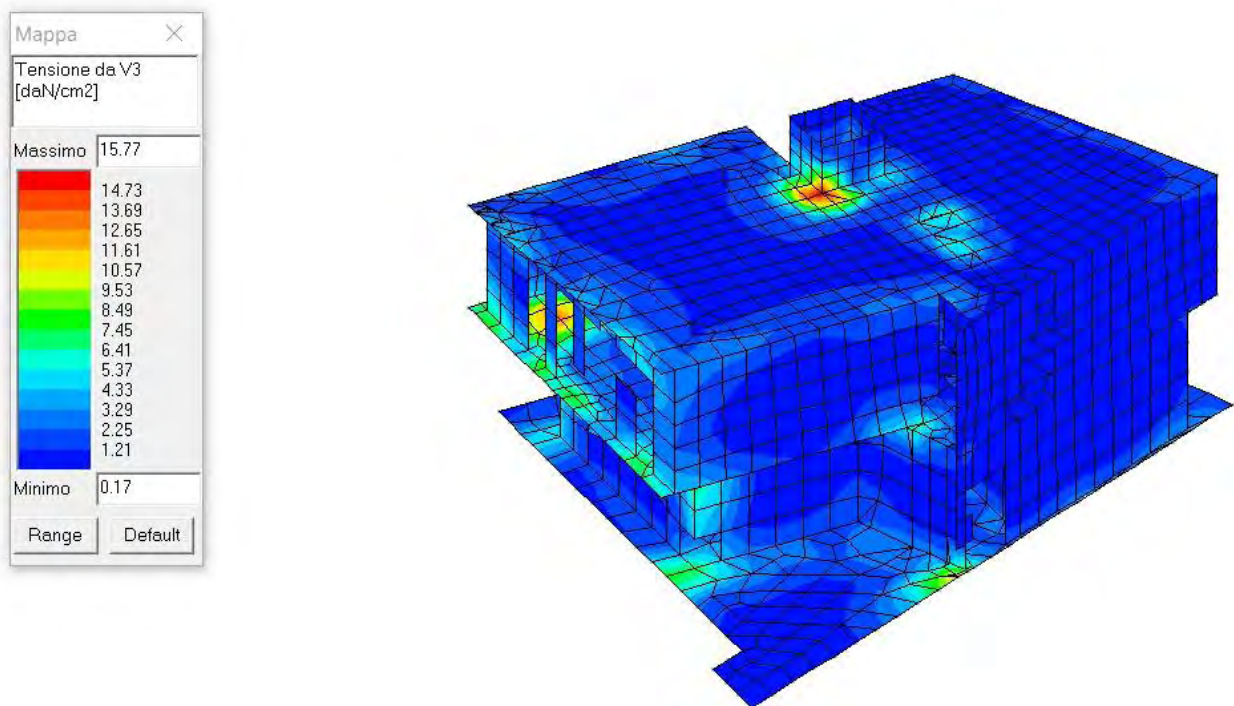


Figura 18 – tensione Taglio 3-3

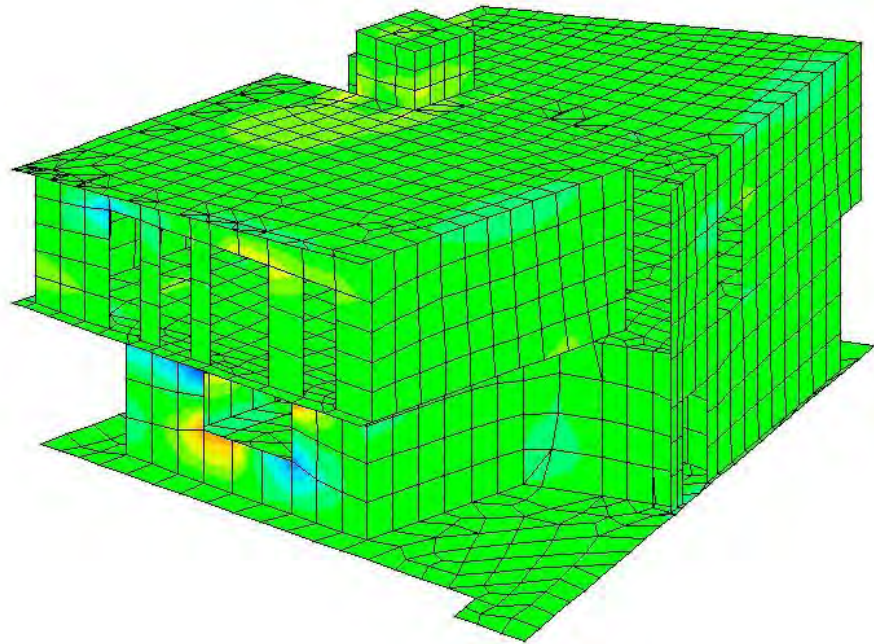
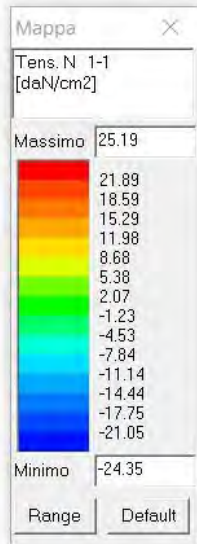


Figura 19 – tensione Sforzo Normale 1-1

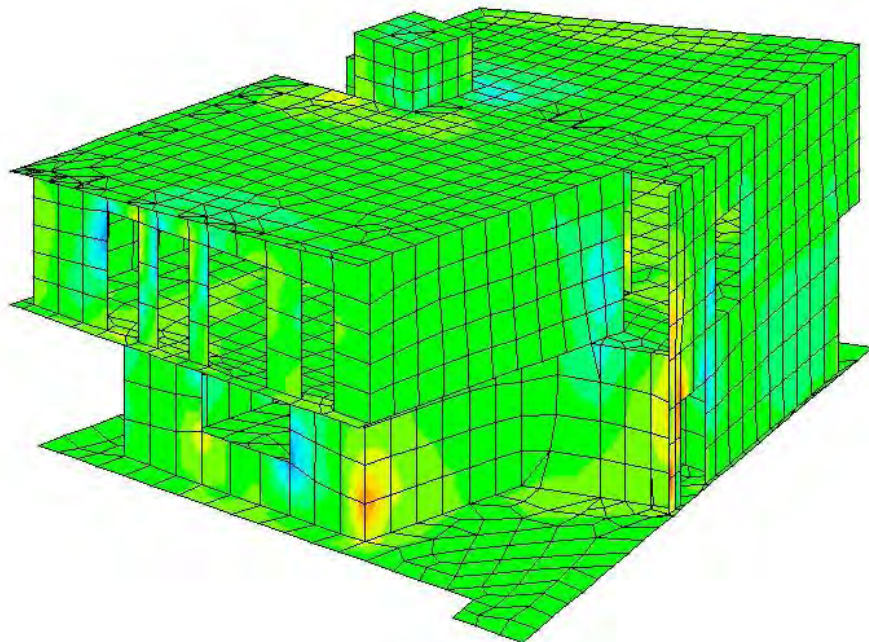
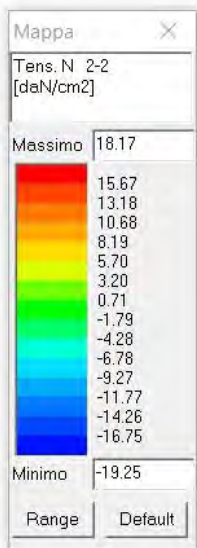


Figura 20 – tensione Sforzo Normale 2-2

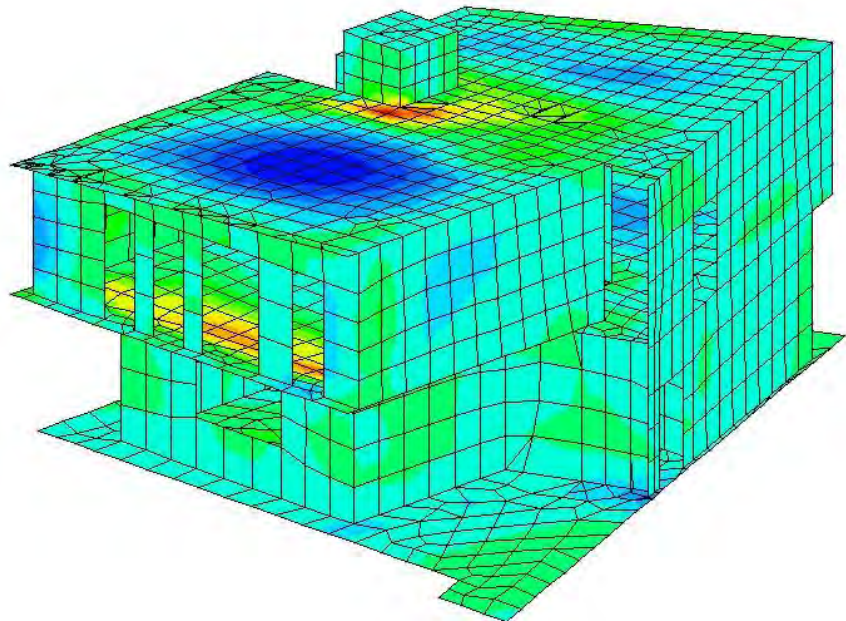
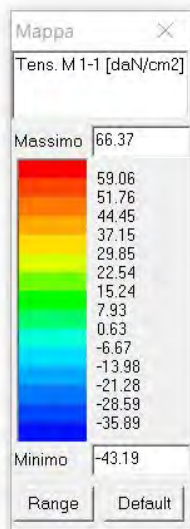


Figura 21 –Momento 1-1

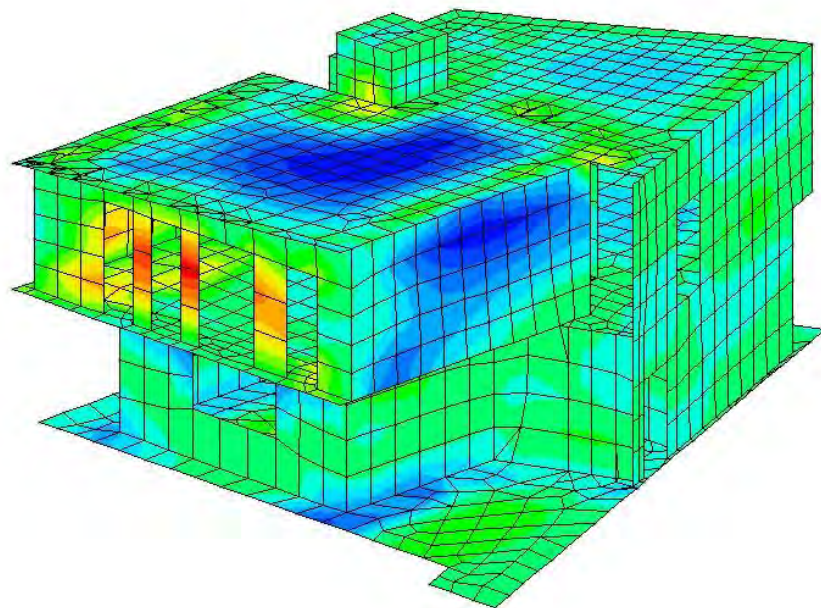
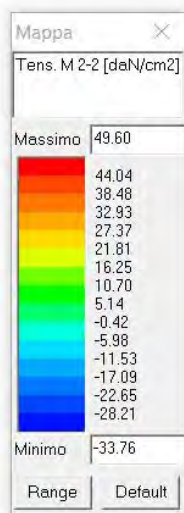


Figura 22 –Momento 2-2

Nei tabulati di calcolo sono esplicitate tutte le sollecitazioni riassunte nelle figure
Sono di seguito riportate le relazioni di calcolo strutturale ricavate dai codici di calcolo di cui alla
premessa.

RELAZIONE DI CALCOLO

Specifiche tecniche codice di calcolo utilizzato

Denominazione del software: **Sismicad 12.8**

Produttore del software: Concrete

Concrete srl, via della Pieve, 15, 35121 PADOVA - Italy

<http://www.concrete.it>

Rivenditore: CONCRETE SRL - Via della Pieve 19 - 35121 Padova - tel.049-8754720

Versione: 12.8

Identificatore licenza: SW-2622095

Intestatario della licenza: LUZZU ING. EUGENIO - PIAZZALE EUROPA, 1B - ODERZO (TV)

Versione regolarmente licenziata

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1 Descrizione del software

Descrizione del programma Sismicad

Si tratta di un programma di calcolo strutturale che nella versione più estesa è dedicato al progetto e verifica degli elementi in cemento armato, acciaio, muratura e legno di opere civili. Il programma utilizza come analizzatore e solutore del modello strutturale un proprio solutore agli elementi finiti tridimensionale fornito col pacchetto. Il programma è sostanzialmente diviso in tre moduli: un pre processore che consente l'introduzione della geometria e dei carichi e crea il file dati di input al solutore; il solutore agli elementi finiti; un post processore che a soluzione avvenuta elabora i risultati eseguendo il progetto e la verifica delle membrature e producendo i grafici ed i tabulati di output.

Schematizzazione strutturale e criteri di calcolo delle sollecitazioni

Il programma schematizza la struttura attraverso l'introduzione nell'ordine di fondazioni, poste anche a quote diverse, platee, platee nervate, plinti e travi di fondazione poggianti tutte su suolo elastico alla Winkler, di elementi verticali, pilastri e pareti in c.a. anche con fori, di orizzontamenti costituiti da solai orizzontali e inclinati (falde), e relative travi di piano e di falda; è ammessa anche l'introduzione di elementi prismatici in c.a. di interpiano con possibilità di collegamento in inclinato a solai posti a quote diverse. I nodi strutturali possono essere connessi solo a travi, pilastri e pareti, simulando così impalcati infinitamente deformabili nel piano, oppure a elementi lastra di spessore dichiarato dall'utente simulando in tal modo impalcati a rigidità finita. I nodi appartenenti agli impalcati orizzontali possono essere connessi rigidamente ad uno o più nodi principali giacenti nel piano dell'impalcato; generalmente un nodo principale coincide con il baricentro delle masse. Tale opzione, oltre a ridurre significativamente i tempi di elaborazione, elimina le approssimazioni numeriche connesse all'utilizzo di elementi lastra quando si richiede l'analisi a impalcati infinitamente rigidi. Per quanto concerne i carichi, in fase di immissione dati, vengono definite, in numero a scelta dell'utente, condizioni di carico elementari le quali, in aggiunta alle azioni sismiche e variazioni termiche, vengono combinate attraverso coefficienti moltiplicativi per fornire le combinazioni richieste per le verifiche successive. L'effetto di disassamento delle forze orizzontali, indotto ad esempio dai torcenti di piano per costruzioni in zona sismica, viene simulato attraverso l'introduzione di eccentricità planari aggiuntive le quali costituiscono ulteriori condizioni elementari di carico da cumulare e combinare secondo i criteri del paragrafo precedente. Tipologicamente sono ammessi sulle travi e sulle pareti carichi uniformemente distribuiti e carichi trapezoidali; lungo le aste e nei nodi di incrocio delle membrature sono anche definibili componenti di forze e coppie concentrate comunque dirette nello spazio. Sono previste distribuzioni di temperatura, di intensità a scelta dell'utente, agenti anche su singole porzioni di struttura. Il calcolo delle sollecitazioni si basa sulle seguenti ipotesi e modalità: - travi e pilastri deformabili a sforzo normale, flessione deviata, taglio deviato e momento torcente. Sono previsti coefficienti riduttivi dei momenti di inerzia a scelta dell'utente per considerare la riduzione della rigidità flessionale e torsionale per effetto della fessurazione del conglomerato cementizio. E' previsto un moltiplicatore della rigidità assiale dei pilastri per considerare, se pure in modo approssimato, l'accorciamento dei pilastri per sforzo normale durante la costruzione. - le travi di fondazione su suolo alla Winkler sono risolte in forma chiusa tramite uno specifico elemento finito; - le pareti in c.a. sono analizzate schematizzandole come elementi lastra-piastra discretizzate con passo massimo assegnato in fase di immissione dati; - le pareti in muratura possono essere schematizzate con elementi lastra-piastra con spessore flessionale ridotto rispetto allo spessore membranale. - I plinti su suolo alla Winkler sono modellati con la introduzione di molle verticali elastoplastiche. La traslazione orizzontale a scelta dell'utente è bloccata o gestita da molle orizzontali di modulo di reazione proporzionale al verticale. - I pali sono modellati suddividendo l'asta in più aste immerse in terreni di stratigrafia definita dall'utente. Nei nodi di divisione tra le aste vengono inserite molle assialsimmetriche elastoplastiche precaricate dalla spinta a riposo che hanno come pressione limite minima la spinta attiva e come pressione limite massima la spinta passiva modificabile attraverso opportuni coefficienti. - i plinti su pali sono modellati attraverso aste di rigidità elevata che collegano un punto della struttura in elevazione con le aste che simulano la presenza dei pali; - le piastre sono discretizzate in un numero finito di elementi lastra-piastra con passo massimo assegnato in fase di immissione dati; nel caso di platee di fondazione i nodi sono collegati al suolo da molle aventi rigidità alla traslazione verticale ed richiesta anche orizzontale. - La deformabilità nel proprio piano di piani dichiarati non infinitamente rigidi e di falde (piani inclinati) può essere controllata attraverso la introduzione di elementi membranali nelle zone di solaio. - I disassamenti tra elementi asta sono gestiti automaticamente dal programma attraverso la introduzione di collegamenti rigidi locali. - Alle estremità di elementi asta è possibile inserire svincolamenti tradizionali così come cerniere parziali (che trasmettono una quota di ciò che trasmetterebbero in condizioni di collegamento rigido) o cerniere plastiche. - Alle estremità di elementi bidimensionali è possibile inserire svincolamenti con cerniere parziali del momento flettente avente come asse il bordo dell'elemento. - Il calcolo degli effetti del sisma è condotto, a scelta dell'utente, con analisi statica lineare, con analisi dinamica modale o con analisi statica non lineare, in accordo alle varie normative adottate. Le masse, nel caso di impalcati dichiarati rigidi sono concentrate nei nodi principali di piano altrimenti vengono considerate diffuse nei nodi giacenti sull'impalcato stesso. Nel caso di analisi sismica vengono anche controllati gli spostamenti di interpiano.

Verifiche delle membrature in cemento armato

Nel caso più generale le verifiche degli elementi in c.a. possono essere condotte col metodo delle tensioni ammissibili (D.M. 14-1-92) o agli stati limite in accordo al D.M. 09-01-96, al D.M. 14-01-08 o secondo Eurocodice 2. Le travi sono progettate e verificate a flessione retta e taglio; a richiesta è possibile la verifica per le sei componenti della sollecitazione. I pilastri ed i pali sono verificati per le sei componenti della sollecitazione. Per gli elementi bidimensionali giacenti in un medesimo piano è disponibile la modalità di verifica che consente di analizzare lo stato di verifica nei singoli nodi degli elementi. Nelle verifiche (a presso flessione e punzonamento) è ammessa la introduzione dei momenti di calcolo modificati in base alle direttive dell'EC2, Appendice A.2.8. I plinti superficiali sono verificati assumendo lo schema statico di mensole con incastri posti a filo o in asse pilastro. Gli ancoraggi delle armature delle membrature in c.a. sono calcolati sulla base della effettiva tensione normale che ogni barra assume nella sezione di verifica distinguendo le zone di ancoraggio in zone di buona o cattiva aderenza. In particolare il programma valuta la tensione normale che ciascuna barra può assumere in una sezione sviluppando l'aderenza sulla superficie cilindrica posta a sinistra o a destra della sezione considerata; se in una sezione una barra assume per effetto dell'aderenza una tensione normale minore di quella ammissibile, il suo contributo all'area complessiva viene ridotto dal programma nel rapporto tra la tensione normale che la barra può assumere per effetto dell'aderenza e quella ammissibile. Le verifiche sono effettuate a partire dalle aree di acciaio equivalenti così calcolate che vengono evidenziate in relazione. A seguito di analisi inelastiche eseguite in accordo a OPCM 3431 o D.M. 14-01-08 vengono condotte verifiche di resistenza per i meccanismi fragili (nodi e taglio) e verifiche di deformabilità per i meccanismi duttili.

2 Dati generali

2.1 Materiali

2.1.1 Materiali c.a.

Descrizione: Descrizione o nome assegnato all'elemento.

Rck: Resistenza caratteristica cubica; valore medio nel caso di edificio esistente. [daN/cm²]

E: Modulo di elasticità longitudinale del materiale per edifici o materiali nuovi. [daN/cm²]

Gamma: Peso specifico del materiale. [daN/cm³]

Poisson: Coefficiente di Poisson. Il valore è adimensionale.

G: Modulo di elasticità tangenziale del materiale, viene impiegato nella modellazione di aste. [daN/cm²]

Alfa: Coefficiente longitudinale di dilatazione termica. [°C⁻¹]

Descrizione	Rck	E	Gamma	Poisson	G	Alfa
C25/30	300	314472	0.0025	0.1	Default (142941.64)	0.00001
C28/35	350	325881	0.0025	0.1	Default (148127.76)	0.00001

2.1.2 Armature

Descrizione: descrizione o nome assegnato all'elemento.

fyk: resistenza caratteristica. [daN/cm²]

Sigma amm.: tensione ammissibile. [daN/cm²]

Tipo: tipo di barra.

E: modulo di elasticità longitudinale del materiale per edifici o materiali nuovi. [daN/cm²]

Gamma: peso specifico del materiale. [daN/cm³]

Poisson: coefficiente di Poisson. Il valore è adimensionale.

Alfa: coefficiente longitudinale di dilatazione termica. [°C⁻¹]

Livello di conoscenza: indica se il materiale è nuovo o esistente, e in tal caso il livello di conoscenza secondo Circ. 02/02/09 n. 617 §C8A.

Informazione impiegata solo in analisi D.M. 14-01-08 (N.T.C.).

Descrizione	fyk	Sigma amm.	Tipo	E	Gamma	Poisson	Alfa	Livello di conoscenza
B450C	4500	2550	Aderenza migliorata	2060000	0.00785	0.3	0.000012	Nuovo

3 Dati di definizione

3.1 Preferenze commessa

3.1.1 Preferenze di analisi

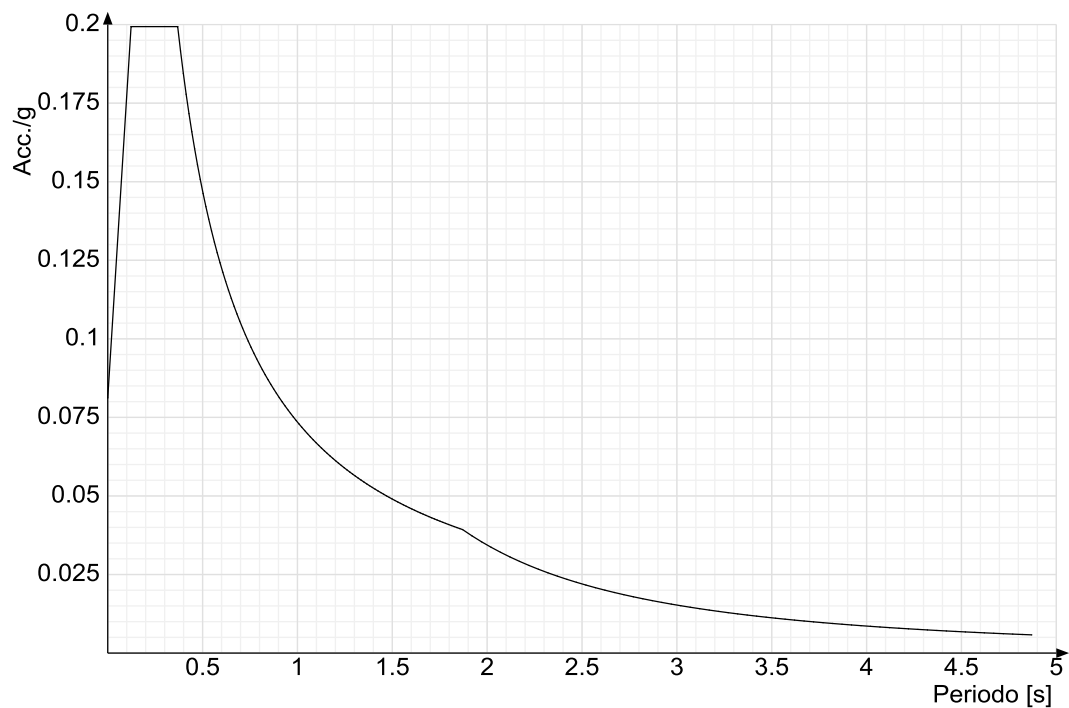
Metodo di analisi	D.M. 14-01-08 (N.T.C.)	
Tipo di costruzione	2	
Vn	50	
Classe d'uso	IV	
Vr	100	
Tipo di analisi	Lineare dinamica	
Località	Vicenza, Marostica, Ca' Coronaro; Latitudine ED50 45,7316° (45° 43' 54''); Longitudine ED50 11,6647° (11° 39' 53''); Altitudine s.l.m. 90,08 m.	
Zona sismica	Zona 3	
Categoria del suolo	C - Depositi di sabbie e ghiaie mediamente addensate o di argille di media consistenza	
Categoria topografica	T1	
Ss orizzontale SLO	1.2	
Tb orizzontale SLO	0.123	[s]
Tc orizzontale SLO	0.369	[s]
Td orizzontale SLO	1.871	[s]
Ss orizzontale SLD	1.2	
Tb orizzontale SLD	0.129	[s]
Tc orizzontale SLD	0.386	[s]
Td orizzontale SLD	1.951	[s]
Ss orizzontale SLV	1.19	
Tb orizzontale SLV	0.139	[s]
Tc orizzontale SLV	0.418	[s]
Td orizzontale SLV	2.488	[s]
St	1	
PVr SLO (%)	81	
Tr SLO	60.21	
Ag/g SLO	0.0676	
Fo SLO	2.456	
Tc* SLO	0.255	
PVr SLD (%)	63	
Tr SLD	101	
Ag/g SLD	0.0878	
Fo SLD	2.405	
Tc* SLD	0.27	
PVr SLV (%)	10	
Tr SLV	949.12	
Ag/g SLV	0.2221	
Fo SLV	2.403	
Tc* SLV	0.299	
Smorzamento viscoso (%)	5	
Classe di duttilità	CD"B"	
Rotazione del sisma	0	[deg]
Quota dello '0' sismico	0	[cm]
Regolarità in pianta	No	
Regolarità in elevazione	No	
Edificio C.A.	Si	
Tipologia C.A.	Strutture a pareti non accoppiate q0=3.0	
Kw	0.7	
Edificio esistente	No	
Altezza costruzione	790	[cm]
C1	0.05	
T1	0.236	[s]
Lambda SLO	1	
Lambda SLD	1	
Lambda SLV	1	
Numero modi	15	
Metodo di Ritz	applicato	
Torsione accidentale semplificata	No	
Torsione accidentale per piani (livelli e falde) flessibili	No	
Eccentricità X (per sisma Y) livello "Fondazione"	0	[cm]
Eccentricità Y (per sisma X) livello "Fondazione"	0	[cm]
Eccentricità X (per sisma Y) livello "Piano 1"	0	[cm]
Eccentricità Y (per sisma X) livello "Piano 1"	0	[cm]
Eccentricità X (per sisma Y) livello "Piano 2 - sopra ascensore"	0	[cm]
Eccentricità Y (per sisma X) livello "Piano 2 - sopra ascensore"	0	[cm]
Limite spostamenti interpiano	0.005	
Moltiplicatore sisma X per combinazioni di default	1	
Moltiplicatore sisma Y per combinazioni di default	1	
Fattore di struttura per sisma X	1	
Fattore di struttura per sisma Y	1	
Fattore di struttura per sisma Z	1.5	
Applica 1% (§ 3.1.1)	No	
Coefficiente di sicurezza portanza fondazioni superficiali	2.3	
Coefficiente di sicurezza scorrimento fondazioni superficiali	1.1	
	1.7	

3.1.2 Spettri NTC 08

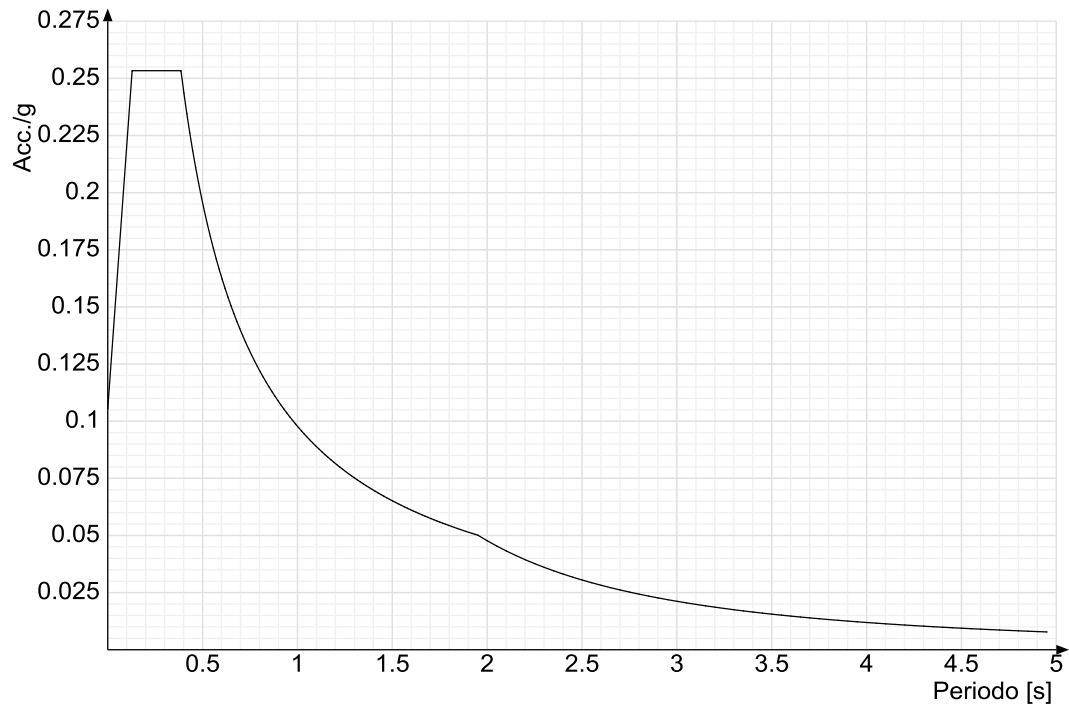
Acc./g: Accelerazione spettrale normalizzata ottenuta dividendo l'accelerazione spettrale per l'accelerazione di gravità.

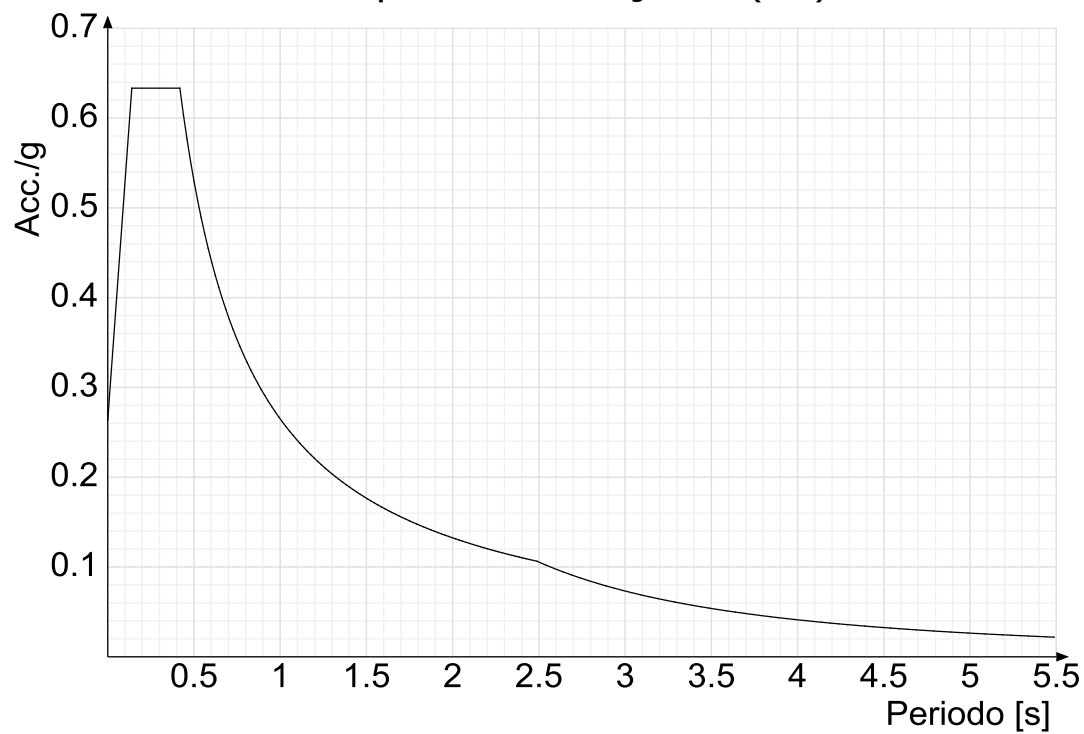
Periodo: Periodo di vibrazione.

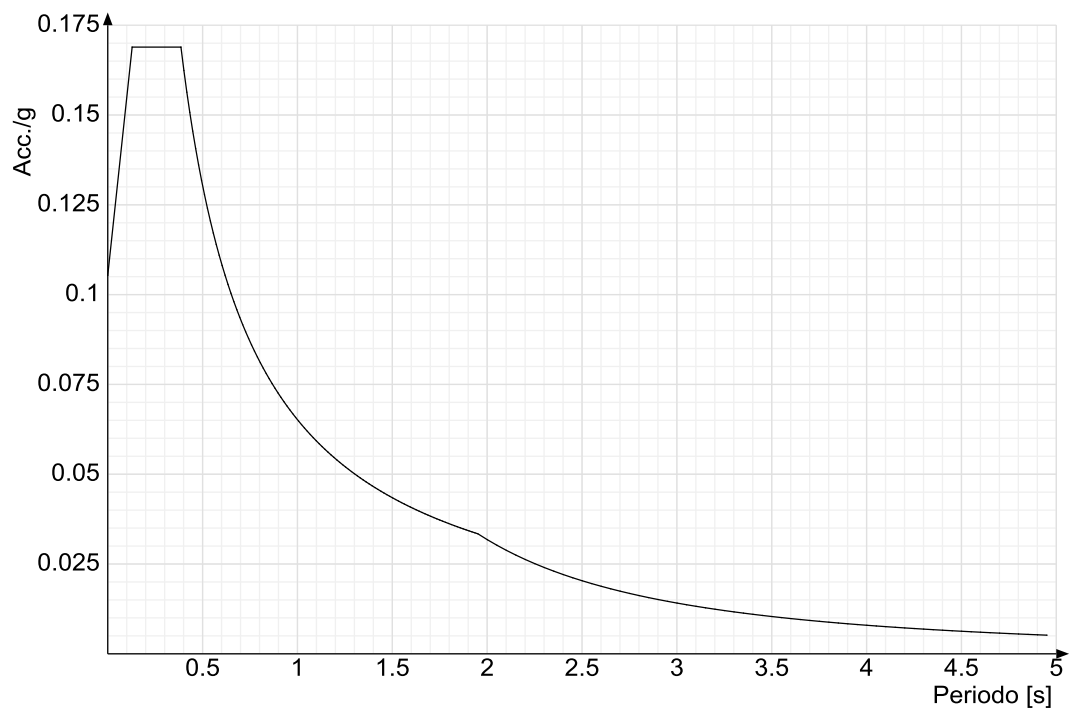
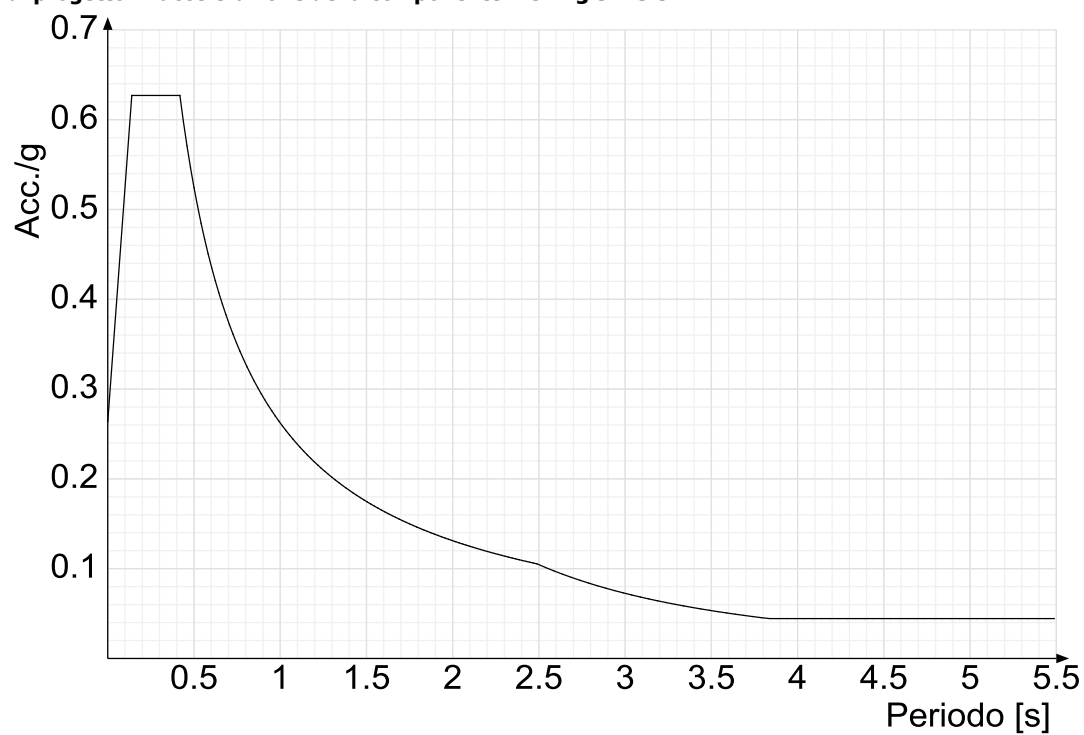
Spettro di risposta elastico in accelerazione delle componenti orizzontali SLO § 3.2.3.2.1 (3.2.4)

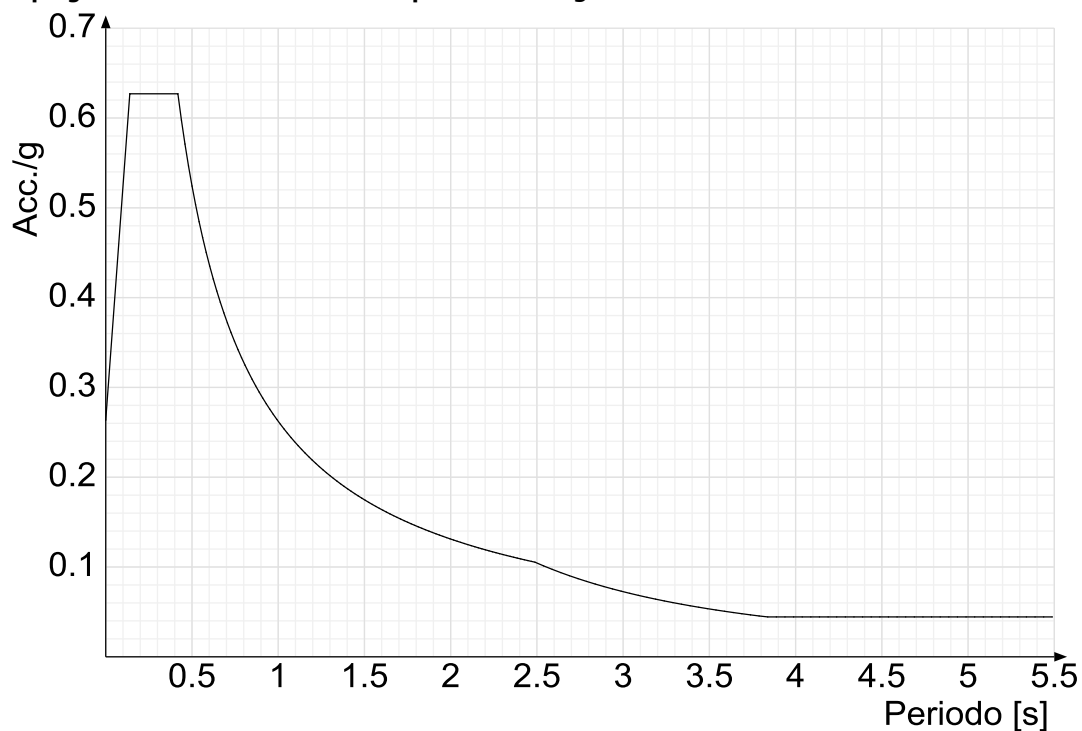


Spettro di risposta elastico in accelerazione delle componenti orizzontali SLD § 3.2.3.2.1 (3.2.4)



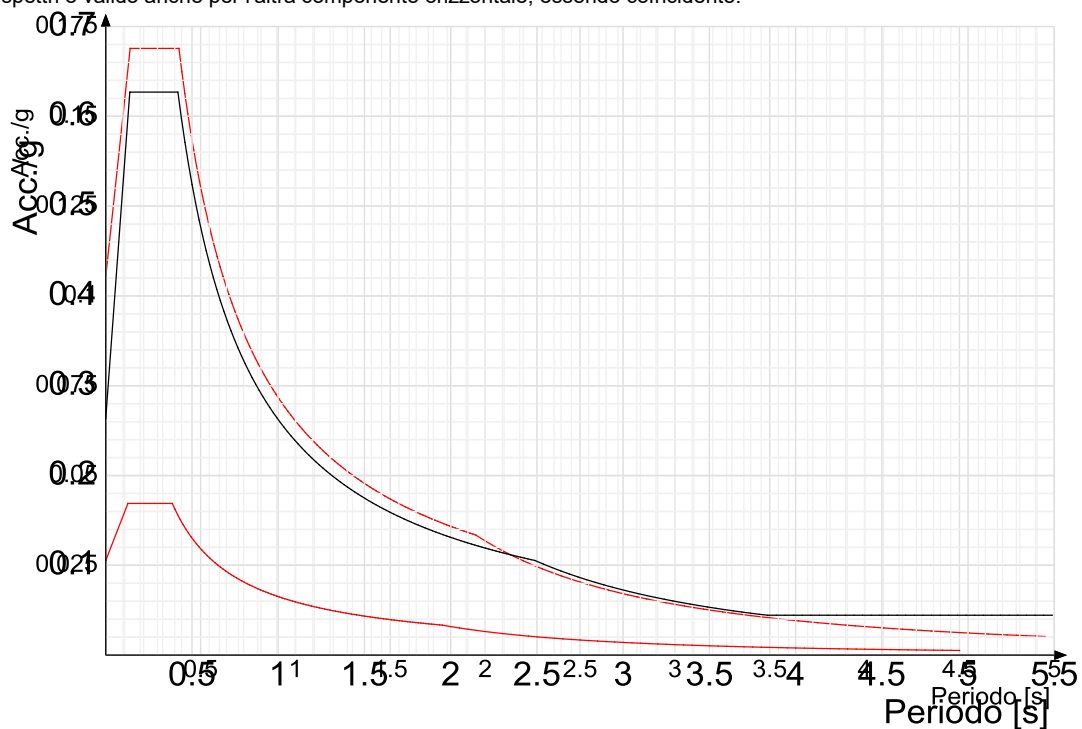
Spettro di risposta elastico in accelerazione delle componenti orizzontali SLV § 3.2.3.2.1 (3.2.4)**Spettro di risposta di progetto in accelerazione delle componenti orizzontali SLO § 3.2.3.4**

Spettro di risposta di progetto in accelerazione delle componenti orizzontali SLD § 7.3.7.1**Spettro di risposta di progetto in accelerazione della componente X SLV § 3.2.3.5**

Spettro di risposta di progetto in accelerazione della componente Y SLV § 3.2.3.5

Confronti spettri SLV-SLD

Vengono confrontati lo spettro Spettro di risposta di progetto in accelerazione delle componenti orizzontali SLD § 7.3.7.1 (di colore rosso) e Spettro di risposta di progetto in accelerazione della componente X SLV § 3.2.3.5 (di colore nero).

Questo confronto tra spettri è valido anche per l'altra componente orizzontale, essendo coincidente.



3.1.3 Preferenze di verifica

3.1.3.1 Normativa di verifica in uso

Norma di verifica	D.M. 14-01-08 (N.T.C.)
Cemento armato	Preferenze analisi di verifica in stato limite

3.1.3.2 Normativa di verifica C.A.

Coefficiente di omogeneizzazione	15	
γ_s (fattore di sicurezza parziale per l'acciaio)	1.15	
γ_c (fattore di sicurezza parziale per il calcestruzzo)	1.5	
Limite σ/f_{ck} in combinazione rara	0.6	
Limite σ/f_{ck} in combinazione quasi permanente	0.45	
Limite σ/f_{yk} in combinazione rara	0.8	
Coefficiente di riduzione della τ per cattiva aderenza	0.7	
Dimensione limite fessure w1 §4.1.2.2.4.1	0.02	[cm]
Dimensione limite fessure w2 §4.1.2.2.4.1	0.03	[cm]
Dimensione limite fessure w3 §4.1.2.2.4.1	0.04	[cm]
Fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q	No	
Copriferro secondo EC2	Si	

3.1.4 Preferenze FEM

Dimensione massima ottimale mesh pareti (default)	80	[cm]
Dimensione massima ottimale mesh piastre (default)	80	[cm]
Tipo di mesh dei gusci (default)	Quadrilateri o triangoli	
Tipo di mesh imposta ai gusci	Specifico dell'elemento	
Metodo P-Delta	non utilizzato	
Analisi buckling	non utilizzata	
Rapporto spessore flessionale/membranale gusci muratura verticali	0.2	
Spessori membranale e flessionale pareti XLAM da sole tavole verticali	No	
Moltiplicatore rigidità connettori pannelli pareti legno a diaframma	1	
Tolleranza di parallelismo	4.99	[deg]
Tolleranza di unicità punti	10	[cm]
Tolleranza generazione nodi di aste	1	[cm]
Tolleranza di parallelismo in suddivisione aste	4.99	[deg]
Tolleranza generazione nodi di gusci	4	[cm]
Tolleranza eccentricità carichi concentrati	100	[cm]
Considera deformazione a taglio delle piastre	No	
Modello elastico pareti in muratura	Gusci	
Concentra masse pareti nei vertici	No	
Segno risultati analisi spettrale	Analisi statica	
Memoria utilizzabile dal solutore	8000000	
Metodo di risoluzione della matrice	Matrici sparse	
Scrivi commenti nel file di input	No	
Scrivi file di output in formato testo	No	
Solidi colle e corpi ruvidi (default)	Solidi reali	
Moltiplicatore rigidità molla torsionale applicata ad aste di fondazione	1	
Modello trave su suolo alla Winkler nel caso di modellazione lineare	Equilibrio elastico	

3.1.5 Moltiplicatori inerziali

Tipologia: Tipo di entità a cui si riferiscono i moltiplicatori inerziali.

J2: Moltiplicatore inerziale di J2. Il valore è adimensionale.

J3: Moltiplicatore inerziale di J3. Il valore è adimensionale.

Jt: Moltiplicatore inerziale di Jt. Il valore è adimensionale.

A: Moltiplicatore dell'area della sezione. Il valore è adimensionale.

A2: Moltiplicatore dell'area a taglio in direzione 2. Il valore è adimensionale.

A3: Moltiplicatore dell'area a taglio in direzione 3. Il valore è adimensionale.

Conci rigidi: Fattore di riduzione dei tronchi rigidi. Il valore è adimensionale.

Tipologia	J2	J3	Jt	A	A2	A3	Conci rigidi
Trave C.A.	1	1	0.01	1	1	1	0.5
Pilastro C.A.	1	1	0.01	1	1	1	0.5
Trave di fondazione	1	1	0.01	1	1	1	0.5
Palo	1	1	0.01	1	1	1	0
Trave in legno	1	1	1	1	1	1	1
Colonna in legno	1	1	1	1	1	1	1
Trave in acciaio	1	1	1	1	1	1	1
Colonna in acciaio	1	1	1	1	1	1	1
Trave di reticolare in acciaio	1	1	1	1	1	1	1
Maschio in muratura	0	1	0	1	1	1	1
Trave di accoppiamento in muratura	0	1	0	1	1	1	1
Trave di scala C.A. nervata	1	1	1	1	1	1	0.5
Trave tralicciata	1	1	0.01	1	1	1	0.5

3.1.6 Preferenze di analisi non lineare FEM

Metodo iterativo	Secante
Tolleranza iterazione	0.0001
Numero massimo iterazioni	50

3.2 Azioni e carichi

3.2.1 Condizioni elementari di carico

Descrizione: Nome assegnato alla condizione elementare.

Nome breve: Nome breve assegnato alla condizione elementare.

I/II: Descrive la classificazione della condizione (necessario per strutture in acciaio e in legno).

Durata: Descrive la durata della condizione (necessario per strutture in legno).

Psi0: Coefficiente moltiplicatore Psi0. Il valore è adimensionale.

Psi1: Coefficiente moltiplicatore Psi1. Il valore è adimensionale.

Psi2: Coefficiente moltiplicatore Psi2. Il valore è adimensionale.

Var.segno: Descrive se la condizione elementare ha la possibilità di variare di segno.

Descrizione	Nome breve	I/II	Durata	Psi0	Psi1	Psi2	Var.segno
Pesi strutturali	Pesi		Permanente	0	0	0	
Permanenti portati	Port.	I	Permanente	0	0	0	
Variabile A	Variabile A	I	Media	0.7	0.5	0.3	
Neve	Neve	I	Media	0.5	0.2	0	
Delta T	Dt	II	Media	0.6	0.5	0	No
Sisma X SLV	X SLV			0	0	0	
Sisma Y SLV	Y SLV			0	0	0	
Sisma Z SLV	Z SLV			0	0	0	
Eccentricità Y per sisma X SLV	EY SLV			0	0	0	
Eccentricità X per sisma Y SLV	EX SLV			0	0	0	
Sisma X SLO	X SLO			0	0	0	
Sisma Y SLO	Y SLO			0	0	0	
Sisma Z SLO	Z SLO			0	0	0	
Eccentricità Y per sisma X SLO	EY SLO			0	0	0	
Eccentricità X per sisma Y SLO	EX SLO			0	0	0	
Terreno sisma X SLV	Tr x SLV			0	0	0	
Terreno sisma Y SLV	Tr y SLV			0	0	0	
Terreno sisma Z SLV	Tr z SLV			0	0	0	
Terreno sisma X SLO	Tr x SLO			0	0	0	
Terreno sisma Y SLO	Tr y SLO			0	0	0	
Terreno sisma Z SLO	Tr z SLO			0	0	0	
Rig. Ux	R Ux			0	0	0	
Rig. Uy	R Uy			0	0	0	
Rig. Rz	R Rz			0	0	0	

3.2.2 Combinazioni di carico

Tutte le combinazioni di carico vengono raggruppate per famiglia di appartenenza. Le celle di una riga contengono i coefficienti moltiplicatori della i-esima combinazione, dove il valore della prima cella è da intendersi come moltiplicatore associato alla prima condizione elementare, la seconda cella si riferisce alla seconda condizione elementare e così via.

Famiglia SLU

Il nome compatto della famiglia è SLU.

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt
1	SLU 1	1	0	0	0	0
2	SLU 2	1	0	0	1.5	0
3	SLU 3	1	0	1.05	1.5	0
4	SLU 4	1	0	1.5	0	0
5	SLU 5	1	0	1.5	0.75	0
6	SLU 6	1	1.5	0	0	0
7	SLU 7	1	1.5	0	1.5	0
8	SLU 8	1	1.5	1.05	1.5	0
9	SLU 9	1	1.5	1.5	0	0
10	SLU 10	1	1.5	1.5	0.75	0
11	SLU 11	1.3	0	0	0	0
12	SLU 12	1.3	0	0	1.5	0
13	SLU 13	1.3	0	1.05	1.5	0
14	SLU 14	1.3	0	1.5	0	0
15	SLU 15	1.3	0	1.5	0.75	0
16	SLU 16	1.3	1.5	0	0	0
17	SLU 17	1.3	1.5	0	1.5	0
18	SLU 18	1.3	1.5	1.05	1.5	0
19	SLU 19	1.3	1.5	1.5	0	0
20	SLU 20	1.3	1.5	1.5	0.75	0

Famiglia SLE rara

Il nome compatto della famiglia è SLE RA.

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt
1	SLE RA 1	1	1	0	0	0
2	SLE RA 2	1	1	0	1	0
3	SLE RA 3	1	1	0.7	1	0
4	SLE RA 4	1	1	1	0	0
5	SLE RA 5	1	1	1	0.5	0

Famiglia SLE frequente

Il nome compatto della famiglia è SLE FR.

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt
1	SLE FR 1	1	1	0	0	0
2	SLE FR 2	1	1	0	0.2	0
3	SLE FR 3	1	1	0.3	0.2	0
4	SLE FR 4	1	1	0.5	0	0

Famiglia SLE quasi permanente

Il nome compatto della famiglia è SLE QP.

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt
1	SLE QP 1	1	1	0	0	0
2	SLE QP 2	1	1	0.3	0	0

Famiglia SLU eccezionale

Il nome compatto della famiglia è SLU EX.

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt
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Famiglia SLO

Il nome compatto della famiglia è SLO.

Poiché il numero di condizioni elementari previste per le combinazioni di questa famiglia è cospicuo, la tabella verrà spezzata in più parti.

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt	X SLO	Y SLO
1	SLO 1	1	1	0.3	0	0	-1	-0.3

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt	X SLO	Y SLO
2	SLO 2	1	1	0.3	0	0	-1	-0.3
3	SLO 3	1	1	0.3	0	0	-1	0.3
4	SLO 4	1	1	0.3	0	0	-1	0.3
5	SLO 5	1	1	0.3	0	0	-0.3	-1
6	SLO 6	1	1	0.3	0	0	-0.3	-1
7	SLO 7	1	1	0.3	0	0	-0.3	1
8	SLO 8	1	1	0.3	0	0	-0.3	1
9	SLO 9	1	1	0.3	0	0	0.3	-1
10	SLO 10	1	1	0.3	0	0	0.3	-1
11	SLO 11	1	1	0.3	0	0	0.3	1
12	SLO 12	1	1	0.3	0	0	0.3	1
13	SLO 13	1	1	0.3	0	0	1	-0.3
14	SLO 14	1	1	0.3	0	0	1	-0.3
15	SLO 15	1	1	0.3	0	0	1	0.3
16	SLO 16	1	1	0.3	0	0	1	0.3

Nome	Nome breve	Z SLO	EY SLO	EX SLO	Tr x SLO	Tr y SLO	Tr z SLO
1	SLO 1	0	-1	0.3	-1	-0.3	0
2	SLO 2	0	1	-0.3	-1	-0.3	0
3	SLO 3	0	-1	0.3	-1	0.3	0
4	SLO 4	0	1	-0.3	-1	0.3	0
5	SLO 5	0	-0.3	1	-0.3	-1	0
6	SLO 6	0	0.3	-1	-0.3	-1	0
7	SLO 7	0	-0.3	1	-0.3	1	0
8	SLO 8	0	0.3	-1	-0.3	1	0
9	SLO 9	0	-0.3	1	0.3	-1	0
10	SLO 10	0	0.3	-1	0.3	-1	0
11	SLO 11	0	-0.3	1	0.3	1	0
12	SLO 12	0	0.3	-1	0.3	1	0
13	SLO 13	0	-1	0.3	1	-0.3	0
14	SLO 14	0	1	-0.3	1	-0.3	0
15	SLO 15	0	-1	0.3	1	0.3	0
16	SLO 16	0	1	-0.3	1	0.3	0

Famiglia SLV

Il nome compatto della famiglia è SLV.

Poiché il numero di condizioni elementari previste per le combinazioni di questa famiglia è cospicuo, la tabella verrà spezzata in più parti.

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt	X SLV	Y SLV
1	SLV 1	1	1	0.3	0	0	-1	-0.3
2	SLV 2	1	1	0.3	0	0	-1	-0.3
3	SLV 3	1	1	0.3	0	0	-1	0.3
4	SLV 4	1	1	0.3	0	0	-1	0.3
5	SLV 5	1	1	0.3	0	0	-0.3	-1
6	SLV 6	1	1	0.3	0	0	-0.3	-1
7	SLV 7	1	1	0.3	0	0	-0.3	1
8	SLV 8	1	1	0.3	0	0	-0.3	1
9	SLV 9	1	1	0.3	0	0	0.3	-1
10	SLV 10	1	1	0.3	0	0	0.3	-1
11	SLV 11	1	1	0.3	0	0	0.3	1
12	SLV 12	1	1	0.3	0	0	0.3	1
13	SLV 13	1	1	0.3	0	0	1	-0.3
14	SLV 14	1	1	0.3	0	0	1	-0.3
15	SLV 15	1	1	0.3	0	0	1	0.3
16	SLV 16	1	1	0.3	0	0	1	0.3

Nome	Nome breve	Z SLV	EY SLV	EX SLV	Tr x SLV	Tr y SLV	Tr z SLV
1	SLV 1	0	-1	0.3	-1	-0.3	0
2	SLV 2	0	1	-0.3	-1	-0.3	0
3	SLV 3	0	-1	0.3	-1	0.3	0
4	SLV 4	0	1	-0.3	-1	0.3	0
5	SLV 5	0	-0.3	1	-0.3	-1	0
6	SLV 6	0	0.3	-1	-0.3	-1	0
7	SLV 7	0	-0.3	1	-0.3	1	0
8	SLV 8	0	0.3	-1	-0.3	1	0
9	SLV 9	0	-0.3	1	0.3	-1	0
10	SLV 10	0	0.3	-1	0.3	-1	0
11	SLV 11	0	-0.3	1	0.3	1	0
12	SLV 12	0	0.3	-1	0.3	1	0
13	SLV 13	0	-1	0.3	1	-0.3	0
14	SLV 14	0	1	-0.3	1	-0.3	0
15	SLV 15	0	-1	0.3	1	0.3	0
16	SLV 16	0	1	-0.3	1	0.3	0

Famiglia SLV fondazioni

Il nome compatto della famiglia è SLV FO.

Poiché il numero di condizioni elementari previste per le combinazioni di questa famiglia è cospicuo, la tabella verrà spezzata in più parti.

Nome	Nome breve	Pesi	Port.	Variabile A	Neve	Dt	X SLV	Y SLV
1	SLV FO 1	1	1	0.3	0	0	-1.1	-0.33
2	SLV FO 2	1	1	0.3	0	0	-1.1	-0.33
3	SLV FO 3	1	1	0.3	0	0	-1.1	0.33
4	SLV FO 4	1	1	0.3	0	0	-1.1	0.33
5	SLV FO 5	1	1	0.3	0	0	-0.33	-1.1
6	SLV FO 6	1	1	0.3	0	0	-0.33	-1.1
7	SLV FO 7	1	1	0.3	0	0	-0.33	1.1
8	SLV FO 8	1	1	0.3	0	0	-0.33	1.1
9	SLV FO 9	1	1	0.3	0	0	0.33	-1.1
10	SLV FO 10	1	1	0.3	0	0	0.33	-1.1
11	SLV FO 11	1	1	0.3	0	0	0.33	1.1
12	SLV FO 12	1	1	0.3	0	0	0.33	1.1
13	SLV FO 13	1	1	0.3	0	0	1.1	-0.33
14	SLV FO 14	1	1	0.3	0	0	1.1	-0.33
15	SLV FO 15	1	1	0.3	0	0	1.1	0.33
16	SLV FO 16	1	1	0.3	0	0	1.1	0.33

Nome	Nome breve	Z SLV	EY SLV	EX SLV	Tr x SLV	Tr y SLV	Tr z SLV
1	SLV FO 1	0	-1.1	0.33	-1.1	-0.33	0
2	SLV FO 2	0	1.1	-0.33	-1.1	-0.33	0

Nome	Nome breve	Z SLV	EY SLV	EX SLV	Tr x SLV	Tr y SLV	Tr z SLV
3	SLV FO 3	0	-1.1	0.33	-1.1	0.33	0
4	SLV FO 4	0	1.1	-0.33	-1.1	0.33	0
5	SLV FO 5	0	-0.33	1.1	-0.33	-1.1	0
6	SLV FO 6	0	0.33	-1.1	-0.33	-1.1	0
7	SLV FO 7	0	-0.33	1.1	-0.33	1.1	0
8	SLV FO 8	0	0.33	-1.1	-0.33	1.1	0
9	SLV FO 9	0	-0.33	1.1	0.33	-1.1	0
10	SLV FO 10	0	0.33	-1.1	0.33	-1.1	0
11	SLV FO 11	0	-0.33	1.1	0.33	1.1	0
12	SLV FO 12	0	0.33	-1.1	0.33	1.1	0
13	SLV FO 13	0	-1.1	0.33	1.1	-0.33	0
14	SLV FO 14	0	1.1	-0.33	1.1	-0.33	0
15	SLV FO 15	0	-1.1	0.33	1.1	0.33	0
16	SLV FO 16	0	1.1	-0.33	1.1	0.33	0

Famiglia Calcolo rigidezza torsionale/flessionale di piano

Il nome compatto della famiglia è CRTFP.

Nome	Nome breve	R Ux	R Uy	R Rz
Rig. Ux+	CRTFP Ux+	1	0	0
Rig. Ux-	CRTFP Ux-	-1	0	0
Rig. Uy+	CRTFP Uy+	0	1	0
Rig. Uy-	CRTFP Uy-	0	-1	0
Rig. Rz+	CRTFP Rz+	0	0	1
Rig. Rz-	CRTFP Rz-	0	0	-1

3.2.3 Definizioni di carichi lineari

Nome: Nome identificativo della definizione di carico.

Valori: Valori associati alle condizioni di carico.

Condizione: Condizione di carico a cui sono associati i valori.

Descrizione: Nome assegnato alla condizione elementare.

Fx i.: Valore iniziale della forza, per unità di lunghezza, agente in direzione X. [daN/cm]

Fx f.: Valore finale della forza, per unità di lunghezza, agente in direzione X. [daN/cm]

Fy i.: Valore iniziale della forza, per unità di lunghezza, agente in direzione Y. [daN/cm]

Fy f.: Valore finale della forza, per unità di lunghezza, agente in direzione Y. [daN/cm]

Fz i.: Valore iniziale della forza, per unità di lunghezza, agente in direzione Z. [daN/cm]

Fz f.: Valore finale della forza, per unità di lunghezza, agente in direzione Z. [daN/cm]

Mx i.: Valore iniziale della coppia, per unità di lunghezza, agente attorno l'asse X. [daN]

Mx f.: Valore finale della coppia, per unità di lunghezza, agente attorno l'asse X. [daN]

My i.: Valore iniziale della coppia, per unità di lunghezza, agente attorno l'asse Y. [daN]

My f.: Valore finale della coppia, per unità di lunghezza, agente attorno l'asse Y. [daN]

Mz i.: Valore iniziale della coppia, per unità di lunghezza, agente attorno l'asse Z. [daN]

Mz f.: Valore finale della coppia, per unità di lunghezza, agente attorno l'asse Z. [daN]

Nome	Condizione	Valori											
		Fx i.	Fx f.	Fy i.	Fy f.	Fz i.	Fz f.	Mx i.	Mx f.	My i.	My f.	Mz i.	Mz f.
scarico testa scala metallica	Pesi strutturali	0	0	0	0	-1.5	-1.5	0	0	0	0	0	0
	Permanenti portati	0	0	0	0	0	0	0	0	0	0	0	0
	Variabile A	0	0	0	0	-7	-7	0	0	0	0	0	0
scarico copertura scala	Neve	0	0	0	0	0	0	0	0	0	0	0	0
	Pesi strutturali	0	0	0	0	-2	-0.7	0	0	0	0	0	0
	Permanenti portati	0	0	0	0	0	0	0	0	0	0	0	0
	Variabile A	0	0	0	0	-3.3	-1.2	0	0	0	0	0	0
	Neve	0	0	0	0	0	0	0	0	0	0	0	0

3.2.4 Definizioni di carichi superficiali

Nome: Nome identificativo della definizione di carico.

Valori: Valori associati alle condizioni di carico.

Condizione: Condizione di carico a cui sono associati i valori.

Descrizione: Nome assegnato alla condizione elementare.

Valore: Modulo del carico superficiale applicato alla superficie. [daN/cm²]

Applicazione: Modalità con cui il carico è applicato alla superficie.

Nome	Condizione	Valori		Applicazione
		Descrizione	Valore	
primo solaio	Pesi strutturali		0.06	Verticale
	Permanenti portati		0.021	Verticale
	Variabile A		0.03	Verticale
copertura	Neve		0	Verticale
	Pesi strutturali		0.05	Verticale
	Permanenti portati		0.01	Verticale
	Variabile A		0	Verticale
	Neve		0.012	Verticale

4 Risultati numerici

4.1 Pressioni massime sul terreno

Nodo: Nodo che interagisce col terreno.

Ind.: Indice del nodo.

Pressione minima: Situazione in cui si verifica la pressione minima nel nodo.

Cont.: Nome breve della condizione o combinazione di carico a cui si riferisce la pressione minima.

uz: Spostamento massimo verticale del nodo. [cm]

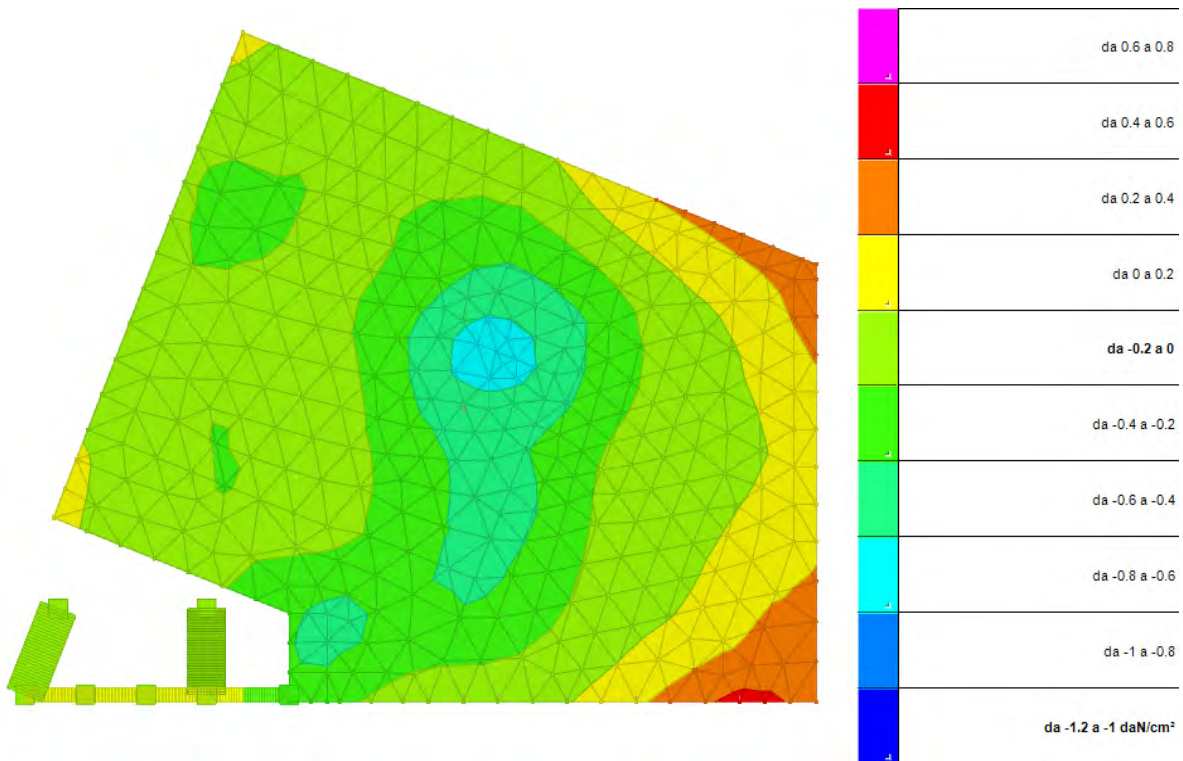
Valore: Pressione minima sul terreno del nodo. [daN/cm²]

Pressione massima: Situazione in cui si verifica la pressione massima nel nodo.

Cont.: Nome breve della condizione o combinazione di carico a cui si riferisce la pressione massima.

uz: Spostamento minimo verticale del nodo. [cm]

Valore: Pressione massima sul terreno del nodo. [daN/cm²]



Compressione estrema massima -1.81784 al nodo di indice 4, di coordinate x = 1062, y = 897, z = -20, nel contesto SLV fondazioni 5.

Spostamento estremo minimo -0.09089 al nodo di indice 4, di coordinate x = 1062, y = 897, z = -20, nel contesto SLV fondazioni 5.

Spostamento estremo massimo 0.02289 al nodo di indice 17, di coordinate x = 1942, y = 897, z = -20, nel contesto SLV fondazioni 7.

Nodo Ind.	Pressione minima			Pressione massima		
	Cont.	uz	Valore	Cont.	uz	Valore
	SLV FO 5	-0.08052	-1.61047	SLV FO 11	-0.01357	-0.27131
	SLV FO 5	-0.08868	-1.77367	SLV FO 11	-0.01365	-0.27295
	SLV FO 5	-0.09089	-1.81784	SLV FO 11	-0.01312	-0.26249
	SLV FO 5	-0.0901	-1.80203	SLV FO 11	-0.01234	-0.24689
	SLV FO 5	-0.08395	-1.67906	SLV FO 11	-0.00863	-0.17253
	SLV FO 5	-0.0808	-1.61602	SLV FO 11	-0.00459	-0.09184
	SLV FO 5	-0.08021	-1.6042	SLV FO 11	-0.00288	-0.05768
	SLV FO 5	-0.0775	-1.54996	SLV FO 11	-0.00334	-0.0668
	SLV FO 5	-0.07396	-1.47929	SLV FO 11	-0.00392	-0.0785
	SLV FO 5	-0.07141	-1.42811	SLV FO 11	-0.0034	-0.06798
	SLV FO 9	-0.07089	-1.41772	SLV FO 7	-0.00062	-0.01232
	SLV FO 9	-0.07119	-1.42375	SLV FO 7	0.00344	0.0687
	SLV FO 9	-0.07169	-1.43387	SLV FO 7	0.0081	0.16191
	SLV FO 9	-0.07256	-1.45121	SLV FO 7	0.01321	0.26413
	SLV FO 9	-0.0742	-1.48393	SLV FO 7	0.01869	0.37389
	SLV FO 9	-0.07522	-1.50441	SLV FO 7	0.02289	0.45784
	SLV FO 9	-0.07174	-1.43486	SLV FO 7	0.02209	0.4418
	SLV FO 9	-0.06579	-1.31572	SLV FO 7	0.01935	0.38692
	SLV FO 13	-0.06011	-1.20227	SLV FO 3	0.01654	0.33081
	SLU 20	-0.01284	-0.25686	SLU 1	-0.00645	-0.12909
	SLU 14	-0.00501	-0.10021	SLV FO 5	-0.00278	-0.05556
	SLV FO 11	-0.0037	-0.07402	SLV FO 5	-0.00017	-0.00336
	SLU 20	-0.01382	-0.27636	SLV FO 15	-0.0064	-0.12809
	SLV FO 5	-0.07783	-1.55663	SLV FO 11	-0.01504	-0.30075
	SLV FO 9	-0.06311	-1.26215	SLV FO 7	0.0151	0.30199
	SLV FO 5	-0.07121	-1.42418	SLV FO 11	-0.00926	-0.18524
	SLV FO 5	-0.05312	-1.06233	SLV FO 11	-0.00533	-0.10653
	SLV FO 5	-0.07674	-1.53489	SLV FO 11	-0.01694	-0.33873
	SLV FO 5	-0.07121	-1.42416	SLV FO 11	-0.01255	-0.2509

Nodo Ind.	Pressione minima			Pressione massima		
	Cont.	uz	Valore	Cont.	uz	Valore
	SLV FO 5	-0.08005	-1.6011	SLV FO 11	-0.01935	-0.38696
	SLV FO 1	-0.07199	-1.43971	SLV FO 15	-0.01895	-0.37904
	SLV FO 9	-0.05473	-1.09459	SLV FO 7	0.01023	0.20459
	SLV FO 9	-0.04797	-0.95931	SLV FO 7	-0.0029	-0.05806
	SLV FO 9	-0.0632	-1.26402	SLV FO 7	0.01468	0.29362
	SLV FO 9	-0.0445	-0.88998	SLV FO 7	0.00036	0.00727
	SLV FO 13	-0.06243	-1.24865	SLV FO 3	0.01462	0.29232
	SLV FO 13	-0.05965	-1.19303	SLV FO 3	0.01396	0.2791
	SLV FO 5	-0.06669	-1.33372	SLV FO 11	-0.01098	-0.21957
	SLV FO 5	-0.06007	-1.20141	SLV FO 11	-0.01079	-0.21581
	SLV FO 9	-0.04333	-0.86664	SLV FO 7	0.00404	0.08079
	SLV FO 5	-0.0494	-0.98791	SLV FO 11	-0.00926	-0.18526
	SLV FO 5	-0.06356	-1.27128	SLV FO 11	-0.01942	-0.38839
	SLV FO 1	-0.06511	-1.30224	SLV FO 15	-0.01961	-0.39211
	SLV FO 5	-0.0343	-0.68593	SLV FO 11	-0.00811	-0.1623
	SLV FO 1	-0.07066	-1.41327	SLV FO 15	-0.02237	-0.44732
	SLV FO 9	-0.04752	-0.95043	SLV FO 7	0.00769	0.15378
	SLV FO 5	-0.05904	-1.18088	SLV FO 11	-0.01557	-0.31131
	SLV FO 9	-0.03694	-0.7389	SLV FO 7	0.00411	0.08214
	SLV FO 9	-0.02651	-0.53022	SLV FO 7	-0.00527	-0.10536
	SLV FO 13	-0.05795	-1.15896	SLV FO 3	0.01136	0.22713
	SLV FO 9	-0.02279	-0.45571	SLV FO 7	-0.00251	-0.05026
	SLV FO 13	-0.06112	-1.22243	SLV FO 3	0.01218	0.24369
	SLV FO 1	-0.06039	-1.2079	SLV FO 15	-0.02147	-0.42933
	SLV FO 5	-0.05403	-1.08069	SLV FO 11	-0.01855	-0.37104
	SLV FO 5	-0.04415	-0.88306	SLV FO 11	-0.01666	-0.33314
	SLV FO 9	-0.02261	-0.45224	SLV FO 7	-0.00049	-0.00976
	SLV FO 1	-0.0611	-1.22195	SLV FO 15	-0.02165	-0.43298
	SLV FO 1	-0.05886	-1.17722	SLV FO 15	-0.02041	-0.40825
	SLV FO 1	-0.05395	-1.07902	SLV FO 15	-0.01848	-0.36957
	SLV FO 5	-0.05191	-1.03825	SLV FO 11	-0.01927	-0.38537
	SLV FO 5	-0.03094	-0.61872	SLV FO 11	-0.01314	-0.26286
	SLU 14	-0.01805	-0.36107	SLU 7	-0.00802	-0.16044
	SLU 14	-0.01785	-0.35693	SLU 7	-0.00685	-0.13707
	SLV FO 13	-0.02874	-0.5748	SLV FO 3	0.00204	0.04085
	SLU 20	-0.02023	-0.40452	SLV FO 11	-0.00961	-0.19223
	SLV FO 13	-0.04185	-0.83695	SLV FO 3	0.00615	0.12292
	SLV FO 1	-0.03888	-0.77763	SLV FO 15	-0.01384	-0.27689
	SLU 20	-0.01317	-0.26344	SLV FO 7	-0.00653	-0.13056
	SLV FO 5	-0.05148	-1.0296	SLV FO 11	-0.01988	-0.39768
	SLV FO 5	-0.04649	-0.92975	SLV FO 11	-0.01837	-0.3675
	SLV FO 13	-0.05497	-1.09933	SLV FO 3	0.00949	0.18975
	SLV FO 9	-0.01109	-0.2219	SLV FO 7	-0.00404	-0.08084
	SLV FO 5	-0.02813	-0.56264	SLV FO 11	-0.00933	-0.18665
	SLV FO 5	-0.05076	-1.01526	SLV FO 11	-0.01796	-0.35923
	SLV FO 5	-0.04617	-0.92347	SLV FO 11	-0.01554	-0.31087
	SLV FO 13	-0.0637	-1.2741	SLV FO 3	0.01075	0.21492
	SLV FO 13	-0.01484	-0.29677	SLV FO 3	-0.00165	-0.03302
	SLU 20	-0.04724	-0.94487	SLV FO 11	-0.02287	-0.45749
	SLU 20	-0.03811	-0.76215	SLV FO 11	-0.01927	-0.38534
	SLV FO 5	-0.0447	-0.89404	SLV FO 11	-0.01605	-0.32099
	SLV FO 5	-0.02173	-0.43452	SLV FO 11	-0.00617	-0.1234
	SLU 20	-0.02604	-0.52082	SLV FO 11	-0.01434	-0.28679
	SLV FO 13	-0.02469	-0.49377	SLV FO 3	0.00134	0.02676
	SLU 20	-0.04554	-0.91087	SLV FO 11	-0.02127	-0.42539
	SLU 20	-0.01569	-0.31374	SLV FO 11	-0.00971	-0.19422
	SLV FO 5	-0.04858	-0.97153	SLV FO 11	-0.01222	-0.24446
	SLV FO 13	-0.03927	-0.78536	SLV FO 3	0.00451	0.09029
	SLV FO 5	-0.01817	-0.36335	SLV FO 11	-0.0043	-0.08596
	SLU 18	-0.0091	-0.18209	SLV FO 11	-0.0063	-0.12595
	SLV FO 5	-0.04023	-0.8045	SLV FO 11	-0.00899	-0.17986
	SLV FO 5	-0.03241	-0.64828	SLV FO 11	-0.00762	-0.15248
	SLV FO 5	-0.04071	-0.81424	SLV FO 11	-0.01629	-0.32588
	SLU 11	-0.00723	-0.14454	SLV FO 3	-0.00414	-0.0828
	SLV FO 5	-0.04918	-0.98358	SLV FO 11	-0.00827	-0.16536
	SLV FO 1	-0.01675	-0.33503	SLV FO 15	-0.00225	-0.04507
	SLV FO 13	-0.0127	-0.25399	SLV FO 3	-0.00184	-0.03686
	SLV FO 13	-0.05811	-1.16216	SLV FO 3	0.00732	0.1464
	SLV FO 13	-0.06716	-1.34315	SLV FO 3	0.00892	0.17848
	SLU 20	-0.03676	-0.73516	SLV FO 11	-0.02014	-0.40277
	SLU 20	-0.04539	-0.90776	SLV FO 11	-0.02287	-0.45741
	SLU 20	-0.0246	-0.49197	SLV FO 11	-0.01466	-0.29315
	SLV FO 5	-0.04456	-0.8912	SLV FO 11	-0.01071	-0.21423
	SLV FO 13	-0.02393	-0.47851	SLV FO 3	0.00048	0.00951
	SLV FO 1	-0.01543	-0.30869	SLV FO 15	-0.00039	-0.00771
	SLV FO 5	-0.03293	-0.65855	SLV FO 15	-0.00701	-0.1401
	SLV FO 5	-0.05152	-1.03033	SLV FO 11	-0.00556	-0.1111
	SLU 20	-0.04239	-0.84771	SLV FO 11	-0.01944	-0.38881
	SLU 18	-0.01403	-0.28069	SLV FO 11	-0.00905	-0.18091
	SLV FO 13	-0.03948	-0.78957	SLV FO 3	0.00276	0.05518
	SLU 17	-0.00751	-0.1502	SLV FO 15	-0.00508	-0.10157
	SLV FO 5	-0.04206	-0.84123	SLV FO 11	-0.00835	-0.16702
	SLV FO 1	-0.03214	-0.64283	SLV FO 15	-0.00362	-0.07238
	SLV FO 1	-0.01377	-0.2754	SLV FO 15	0.00146	0.02919
	SLU 11	-0.00683	-0.13669	SLV FO 3	-0.0039	-0.07803
	SLU 20	-0.04603	-0.92062	SLV FO 11	-0.02494	-0.49888
	SLV FO 5	-0.05082	-1.01635	SLV FO 11	-0.00567	-0.11347
	SLV FO 5	-0.04195	-0.83896	SLV FO 11	-0.01361	-0.27229
	SLU 20	-0.03647	-0.72933	SLV FO 11	-0.02069	-0.41378
	SLV FO 13	-0.0137	-0.27405	SLV FO 3	-0.00211	-0.04222
	SLV FO 1	-0.02966	-0.59312	SLV FO 15	-0.00058	-0.01157
	SLV FO 13	-0.02522	-0.50445	SLV FO 3	-0.00032	-0.00638
	SLV FO 13	-0.05733	-1.14668	SLV FO 3	0.00451	0.09022
	SLV FO 13	-0.06845	-1.36906	SLV FO 3	0.00626	0.1252
	SLU 20	-0.02501	-0.5002	SLV FO 11	-0.0143	-0.28607
	SLV FO 1	-0.04441	-0.88818	SLV FO 15	-0.00887	-0.17736
	SLV FO 5	-0.04834	-0.96677	SLV FO 11	-0.00807	-0.16141
	SLU 20	-0.04608	-0.92164	SLV FO 11	-0.02359	-0.47186
	SLU 18	-0.01128	-0.22559	SLV FO 11	-0.00693	-0.13854
	SLU 20	-0.0179	-0.35803	SLV FO 11	-0.01031	-0.2062

Nodo		Pressione minima		Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
	SLV FO 1	-0.04597	-0.91935	SLV FO 15	-0.00583	-0.11659
	SLU 12	-0.00729	-0.14577	SLV FO 11	-0.00473	-0.09469
	SLU 20	-0.04538	-0.9076	SLV FO 7	-0.02518	-0.50355
	SLV FO 5	-0.04252	-0.85049	SLV FO 11	-0.01749	-0.34986
	SLV FO 1	-0.0306	-0.61191	SLV FO 15	0.0013	0.026
	SLV FO 9	-0.04611	-0.92226	SLV FO 7	-0.00857	-0.17144
	SLV FO 13	-0.03753	-0.75054	SLV FO 3	0.00062	0.01241
	SLV FO 5	-0.047	-0.93997	SLV FO 11	-0.01052	-0.21031
	SLV FO 13	-0.00795	-0.15894	SLV FO 3	-0.00386	-0.07724
	SLU 20	-0.03567	-0.71337	SLV FO 7	-0.01849	-0.36981
	SLV FO 5	-0.04399	-0.87987	SLV FO 11	-0.00606	-0.12113
	SLV FO 5	-0.04506	-0.90115	SLV FO 11	-0.01309	-0.26175
	SLV FO 1	-0.04827	-0.96546	SLV FO 15	-0.00221	-0.04418
	SLU 20	-0.02562	-0.51245	SLV FO 7	-0.01318	-0.26352
	SLV FO 13	-0.01866	-0.37327	SLV FO 3	-0.00229	-0.04588
	SLV FO 1	-0.05083	-1.01654	SLV FO 15	-0.00866	-0.17319
	SLU 20	-0.01748	-0.34965	SLV FO 7	-0.00936	-0.18721
	SLV FO 5	-0.04095	-0.81895	SLV FO 11	-0.00692	-0.13839
	SLV FO 13	-0.05568	-1.11353	SLV FO 3	0.00218	0.04353
	SLV FO 13	-0.06777	-1.35534	SLV FO 3	0.00396	0.07912
	SLU 18	-0.01107	-0.22149	SLV FO 11	-0.00643	-0.12868
	SLU 20	-0.04534	-0.90677	SLV FO 11	-0.02108	-0.42151
	SLU 20	-0.04681	-0.93619	SLV FO 7	-0.02355	-0.47097
	SLV FO 1	-0.0466	-0.93192	SLV FO 15	0.00092	0.0183
	SLU 20	-0.03413	-0.68257	SLV FO 7	-0.01619	-0.32375
	SLV FO 1	-0.05672	-1.13449	SLV FO 15	-0.00537	-0.10736
	SLU 17	-0.00806	-0.16129	SLV FO 7	-0.00506	-0.10119
	SLV FO 5	-0.046	-0.92001	SLV FO 11	-0.01642	-0.32842
	SLV FO 5	-0.03941	-0.78817	SLV FO 11	-0.00967	-0.19347
	SLV FO 5	-0.04656	-0.93128	SLV FO 11	-0.01152	-0.23048
	SLU 20	-0.0263	-0.52607	SLV FO 7	-0.01292	-0.2584
	SLV FO 13	-0.0357	-0.71407	SLV FO 3	-0.00067	-0.0134
	SLU 20	-0.0445	-0.88999	SLV FO 7	-0.02053	-0.41061
	SLV FO 13	-0.01023	-0.20454	SLV FO 3	-0.00415	-0.08308
	SLV FO 5	-0.03884	-0.77677	SLV FO 11	-0.00802	-0.16044
	SLV FO 1	-0.06076	-1.21521	SLV FO 15	-0.00232	-0.04633
	SLV FO 1	-0.04267	-0.85345	SLV FO 15	-0.0102	-0.20392
	SLU 20	-0.01806	-0.36112	SLV FO 7	-0.00957	-0.19135
	SLV FO 5	-0.03137	-0.62737	SLV FO 11	-0.00629	-0.12581
	SLU 20	-0.03717	-0.74349	SLV FO 7	-0.01774	-0.35481
	SLU 18	-0.01199	-0.23982	SLV FO 7	-0.00709	-0.14173
	SLU 20	-0.04767	-0.9534	SLV FO 11	-0.02392	-0.47845
	SLV FO 15	-0.02016	-0.40317	SLV FO 1	-0.00272	-0.05436
	SLU 20	-0.04797	-0.95949	SLV FO 7	-0.02367	-0.4734
	SLU 20	-0.04683	-0.93665	SLV FO 11	-0.02144	-0.42882
	SLV FO 1	-0.05817	-1.16347	SLV FO 15	-0.00063	-0.01264
	SLV FO 15	-0.05666	-1.1332	SLV FO 1	0.00288	0.05759
	SLV FO 15	-0.06877	-1.37544	SLV FO 1	0.00502	0.10037
	SLV FO 5	-0.02776	-0.55518	SLV FO 11	-0.00761	-0.15211
	SLV FO 5	-0.04596	-0.91925	SLV FO 11	-0.01665	-0.33305
	SLU 18	-0.00973	-0.19457	SLV FO 3	-0.00566	-0.11328
	SLU 20	-0.04575	-0.91509	SLV FO 7	-0.02213	-0.44263
	SLU 20	-0.02815	-0.56306	SLV FO 7	-0.01485	-0.29704
	SLV FO 1	-0.05045	-1.00909	SLV FO 15	-0.00886	-0.17717
	SLV FO 15	-0.01292	-0.25848	SLV FO 1	-0.00423	-0.08466
	SLV FO 5	-0.03814	-0.76271	SLV FO 11	-0.0114	-0.22807
	SLV FO 1	-0.02976	-0.59525	SLV FO 15	-0.00983	-0.19669
	SLU 20	-0.01952	-0.39044	SLV FO 3	-0.01071	-0.21411
	SLV FO 15	-0.03754	-0.75087	SLV FO 1	0.00021	0.00429
	SLV FO 3	-0.06066	-1.21326	SLV FO 13	-0.0063	-0.12602
	SLU 20	-0.04944	-0.98875	SLV FO 7	-0.02674	-0.53489
	SLV FO 1	-0.03747	-0.74937	SLV FO 15	-0.00986	-0.19713
	SLV FO 5	-0.02667	-0.53333	SLV FO 11	-0.00716	-0.1432
	SLU 20	-0.0138	-0.27594	SLV FO 3	-0.00784	-0.15681
	SLU 20	-0.04973	-0.99467	SLV FO 7	-0.02734	-0.54689
	SLU 20	-0.04927	-0.98548	SLV FO 11	-0.02699	-0.53982
	SLU 20	-0.04049	-0.80975	SLV FO 3	-0.02117	-0.42345
	SLU 20	-0.04707	-0.94145	SLV FO 3	-0.02562	-0.51245
	SLU 20	-0.04644	-0.92883	SLV FO 11	-0.02352	-0.47044
	SLU 20	-0.0386	-0.77204	SLV FO 11	-0.017	-0.33997
	SLV FO 5	-0.01936	-0.38722	SLV FO 11	-0.00613	-0.12268
	SLV FO 15	-0.01315	-0.26298	SLV FO 1	-0.00536	-0.10725
	SLV FO 3	-0.06289	-1.25774	SLV FO 13	-0.00354	-0.07075
	SLV FO 15	-0.05947	-1.18942	SLV FO 1	0.005	0.09992
	SLV FO 15	-0.07136	-1.42718	SLV FO 1	0.00769	0.1537
	SLV FO 15	-0.02212	-0.44241	SLV FO 1	-0.00253	-0.05069
	SLU 20	-0.03028	-0.60556	SLV FO 3	-0.01566	-0.31313
	SLU 20	-0.01883	-0.37656	SLV FO 15	-0.00845	-0.16893
	SLU 20	-0.02193	-0.43854	SLV FO 1	-0.01114	-0.22285
	SLV FO 3	-0.02817	-0.56332	SLV FO 13	-0.0095	-0.18998
	SLV FO 3	-0.04348	-0.8696	SLV FO 13	-0.00961	-0.19228
	SLU 20	-0.05145	-1.02907	SLV FO 3	-0.03122	-0.62448
	SLU 20	-0.0516	-1.0319	SLV FO 7	-0.03247	-0.64938
	SLV FO 3	-0.05779	-1.15588	SLV FO 13	-0.008	-0.16
	SLU 20	-0.02599	-0.51973	SLV FO 11	-0.01183	-0.23667
	SLU 20	-0.0482	-0.96395	SLV FO 3	-0.02642	-0.52845
	SLV FO 15	-0.04262	-0.85239	SLV FO 1	0.00193	0.03854
	SLU 20	-0.04912	-0.98243	SLV FO 11	-0.03087	-0.61748
	SLV FO 15	-0.01753	-0.35062	SLV FO 1	-0.00741	-0.14826
	SLU 20	-0.04131	-0.82616	SLV FO 1	-0.02102	-0.42047
	SLU 20	-0.03858	-0.77164	SLV FO 11	-0.02182	-0.43645
	SLU 20	-0.05135	-1.02691	SLV FO 3	-0.0301	-0.60194
	SLV FO 5	-0.01543	-0.30866	SLV FO 11	-0.00666	-0.13319
	SLU 20	-0.05263	-1.05255	SLV FO 3	-0.03386	-0.67717
	SLV FO 15	-0.02057	-0.41141	SLV FO 1	-0.00436	-0.08718
	SLU 20	-0.03329	-0.66578	SLV FO 1	-0.01541	-0.30815
	SLU 20	-0.05273	-1.05464	SLV FO 1	-0.03278	-0.65551
	SLV FO 3	-0.0629	-1.2581	SLV FO 13	-0.00534	-0.10689
	SLU 20	-0.01309	-0.2617	SLV FO 15	-0.00717	-0.14331
	SLV FO 15	-0.06384	-1.27685	SLV FO 1	0.0077	0.1541

Nodo Ind.	Pressione minima			Pressione massima		
	Cont.	uz	Valore	Cont.	uz	Valore
	SLV FO 15	-0.0744	-1.48792	SLV FO 1	0.01094	0.21885
	SLU 20	-0.05326	-1.06515	SLV FO 1	-0.03502	-0.70049
	SLU 20	-0.05326	-1.06514	SLV FO 1	-0.03506	-0.70111
	SLU 20	-0.04906	-0.98119	SLV FO 1	-0.02459	-0.49173
	SLV FO 15	-0.03288	-0.65752	SLV FO 1	-0.00077	-0.01543
	SLV FO 3	-0.02019	-0.40378	SLV FO 13	-0.00802	-0.16036
	SLV FO 15	-0.0275	-0.55005	SLV FO 1	-0.0105	-0.20997
	SLU 20	-0.04327	-0.86546	SLV FO 1	-0.01971	-0.39417
	SLV FO 3	-0.05475	-1.09503	SLV FO 13	-0.00856	-0.17119
	SLU 20	-0.05209	-1.0419	SLU 1	-0.03446	-0.68925
	SLV FO 3	-0.03744	-0.74887	SLV FO 13	-0.00899	-0.1798
	SLU 20	-0.05388	-1.07764	SLV FO 5	-0.03354	-0.67079
	SLU 20	-0.02772	-0.5544	SLV FO 15	-0.01737	-0.34734
	SLU 20	-0.05326	-1.06518	SLV FO 1	-0.02982	-0.59641
	SLU 20	-0.04164	-0.83288	SLV FO 13	-0.0273	-0.54598
	SLV FO 11	-0.02623	-0.52461	SLV FO 5	-0.00605	-0.12098
	SLU 20	-0.01671	-0.33428	SLV FO 15	-0.01048	-0.20967
	SLV FO 15	-0.05201	-1.0401	SLV FO 1	0.00449	0.08973
	SLV FO 11	-0.03121	-0.62415	SLV FO 5	-0.00265	-0.05304
	SLU 20	-0.0119	-0.23792	SLV FO 15	-0.00758	-0.15163
	SLV FO 15	-0.04242	-0.84835	SLV FO 1	-0.0156	-0.31191
	SLV FO 3	-0.0612	-1.22394	SLV FO 13	-0.00662	-0.1325
	SLU 20	-0.05011	-1.00211	SLV FO 1	-0.02237	-0.44748
	SLU 20	-0.04814	-0.96274	SLV FO 9	-0.02884	-0.57684
	SLU 20	-0.05476	-1.09518	SLV FO 5	-0.02965	-0.59292
	SLU 20	-0.05337	-1.06734	SLV FO 5	-0.03064	-0.61285
	SLV FO 15	-0.07009	-1.40182	SLV FO 1	0.01077	0.21543
	SLV FO 15	-0.07888	-1.57768	SLV FO 1	0.0146	0.29194
	SLU 20	-0.01521	-0.30427	SLV FO 13	-0.00729	-0.14577
	SLU 20	-0.0419	-0.83804	SLV FO 9	-0.02313	-0.4627
	SLU 20	-0.03251	-0.6502	SLV FO 9	-0.01819	-0.36378
	SLV FO 11	-0.04062	-0.81232	SLV FO 5	-0.00683	-0.13659
	SLU 20	-0.05495	-1.09893	SLV FO 5	-0.02518	-0.50357
	SLV FO 3	-0.05191	-1.03827	SLV FO 13	-0.00909	-0.18177
	SLU 20	-0.02193	-0.43857	SLV FO 9	-0.01243	-0.24859
	SLV FO 11	-0.04153	-0.83065	SLV FO 5	-0.00153	-0.03053
	SLV FO 11	-0.05096	-1.01928	SLV FO 5	0.00286	0.05728
	SLV FO 3	-0.03223	-0.64465	SLV FO 13	-0.00885	-0.17699
	SLV FO 15	-0.06419	-1.28379	SLV FO 1	0.00771	0.15412
	SLV FO 11	-0.05681	-1.13616	SLV FO 5	-0.01719	-0.34374
	SLU 20	-0.04879	-0.97586	SLV FO 9	-0.02436	-0.48711
	SLU 20	-0.01548	-0.30959	SLV FO 9	-0.00852	-0.17037
	SLU 20	-0.05495	-1.09904	SLV FO 5	-0.02562	-0.51231
	SLV FO 3	-0.05987	-1.19734	SLV FO 13	-0.00764	-0.15285
	SLV FO 11	-0.05423	-1.08465	SLV FO 5	-0.00969	-0.19389
	SLU 20	-0.01539	-0.3079	SLV FO 9	-0.00768	-0.15356
	SLV FO 11	-0.05961	-1.19229	SLV FO 5	-0.01904	-0.3808
	SLV FO 15	-0.07846	-1.5692	SLV FO 1	0.01378	0.27555
	SLV FO 15	-0.08514	-1.70286	SLV FO 1	0.01793	0.3586
	SLV FO 7	-0.04139	-0.82771	SLV FO 9	-0.01709	-0.34173
	SLV FO 7	-0.0311	-0.622	SLV FO 9	-0.01245	-0.24894
	SLV FO 11	-0.0605	-1.20998	SLV FO 5	-0.02029	-0.40585
	SLV FO 11	-0.06	-1.20002	SLV FO 5	0.00384	0.07685
	SLV FO 11	-0.05651	-1.13012	SLV FO 5	-0.00359	-0.07181
	SLV FO 3	-0.02436	-0.48714	SLV FO 13	-0.009	-0.17996
	SLV FO 7	-0.02464	-0.49281	SLV FO 9	-0.00913	-0.18261
	SLV FO 11	-0.05888	-1.17764	SLV FO 5	0.001	0.02004
	SLV FO 11	-0.07599	-1.51989	SLV FO 5	0.01114	0.22275
	SLV FO 11	-0.06422	-1.28446	SLV FO 5	-0.01028	-0.20551
	SLV FO 11	-0.06079	-1.21571	SLV FO 5	-0.02053	-0.4107
	SLV FO 3	-0.05151	-1.03015	SLV FO 13	-0.00995	-0.19892
	SLV FO 7	-0.05453	-1.09069	SLV FO 9	-0.01912	-0.38232
	SLV FO 15	-0.08825	-1.76497	SLV FO 1	0.01892	0.3783
	SLV FO 7	-0.02237	-0.44731	SLV FO 9	-0.00783	-0.15653
	SLV FO 3	-0.0398	-0.79597	SLV FO 13	-0.01036	-0.2073
	SLV FO 15	-0.08569	-1.71389	SLV FO 1	0.01654	0.33071
	SLV FO 11	-0.06592	-1.31846	SLV FO 5	-0.00328	-0.06564
	SLV FO 11	-0.07617	-1.52343	SLV FO 5	0.00964	0.19276
	SLV FO 7	-0.04269	-0.85373	SLV FO 9	-0.01231	-0.24615
	SLV FO 3	-0.06006	-1.20123	SLV FO 13	-0.00848	-0.16959
	SLV FO 11	-0.06538	-1.3075	SLV FO 5	-0.01216	-0.24317
	SLV FO 11	-0.06801	-1.36016	SLV FO 5	0.00132	0.02638
	SLV FO 7	-0.02587	-0.51746	SLV FO 9	-0.00899	-0.17984
	SLV FO 11	-0.08599	-1.71976	SLV FO 5	0.01519	0.30379
	SLV FO 7	-0.03795	-0.75893	SLV FO 9	-0.00999	-0.19974
	SLV FO 11	-0.07715	-1.54296	SLV FO 5	0.00826	0.16523
	SLV FO 7	-0.05375	-1.07491	SLV FO 9	-0.01346	-0.26926
	SLV FO 11	-0.07191	-1.43814	SLV FO 5	-0.00315	-0.06308
	SLV FO 7	-0.0345	-0.69009	SLV FO 9	-0.00867	-0.17341
	SLV FO 11	-0.06546	-1.30923	SLV FO 5	-0.01442	-0.28838
	SLV FO 11	-0.08717	-1.74341	SLV FO 5	0.0137	0.27394
	SLV FO 11	-0.0787	-1.57405	SLV FO 5	0.00696	0.13925
	SLV FO 3	-0.03923	-0.78462	SLV FO 13	-0.012	-0.23996
	SLV FO 3	-0.05462	-1.09239	SLV FO 13	-0.01105	-0.2209
	SLV FO 7	-0.0346	-0.69198	SLV FO 9	-0.00876	-0.17522
	SLV FO 7	-0.05113	-1.02252	SLV FO 9	-0.01064	-0.21293
	SLV FO 11	-0.08806	-1.76115	SLV FO 5	0.0124	0.24802
	SLV FO 11	-0.08032	-1.60642	SLV FO 5	0.00559	0.11187
	SLV FO 7	-0.06346	-1.26924	SLV FO 9	-0.01288	-0.25765
	SLV FO 3	-0.06155	-1.2309	SLV FO 13	-0.00887	-0.17735
	SLV FO 7	-0.0386	-0.77198	SLV FO 9	-0.00999	-0.19983
	SLV FO 7	-0.04787	-0.95746	SLV FO 9	-0.0095	-0.18997
	SLV FO 11	-0.08822	-1.76448	SLV FO 5	0.01128	0.22561
	SLV FO 11	-0.07873	-1.57468	SLV FO 5	0.00371	0.0742
	SLV FO 11	-0.0646	-1.29199	SLV FO 5	-0.00437	-0.08743
	SLV FO 7	-0.05941	-1.18824	SLV FO 9	-0.01038	-0.20758
	SLV FO 7	-0.04648	-0.92968	SLV FO 9	-0.00939	-0.18775
	SLV FO 11	-0.08719	-1.74378	SLV FO 5	0.01009	0.2019
	SLV FO 3	-0.05903	-1.18061	SLV FO 13	-0.01187	-0.23738
	SLV FO 7	-0.04831	-0.96619	SLV FO 9	-0.00965	-0.19305

Nodo		Pressione minima		Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
	SLV FO 7	-0.05619	-1.12374	SLV FO 9	-0.00936	-0.18727
	SLV FO 11	-0.05555	-1.11101	SLV FO 5	-0.0076	-0.15205
	SLV FO 11	-0.08164	-1.63274	SLV FO 5	0.00817	0.16342
	SLV FO 7	-0.05386	-1.07718	SLV FO 9	-0.01059	-0.21176
	SLV FO 3	-0.06447	-1.28936	SLV FO 13	-0.00884	-0.1768
	SLV FO 7	-0.05363	-1.0726	SLV FO 9	-0.00934	-0.18678
	SLV FO 7	-0.05107	-1.02146	SLV FO 9	-0.00761	-0.15216
	SLV FO 11	-0.06522	-1.30446	SLV FO 5	0.00417	0.08338
	SLV FO 7	-0.054	-1.07993	SLV FO 9	-0.00958	-0.19162
	SLV FO 7	-0.04761	-0.95213	SLV FO 9	-0.00721	-0.1442
	SLV FO 11	-0.0484	-0.96809	SLV FO 5	0.00026	0.00518
	SLV FO 7	-0.0657	-1.31407	SLV FO 9	-0.00998	-0.19967
	SLV FO 7	-0.05728	-1.14565	SLV FO 9	-0.00915	-0.18303
	SLV FO 7	-0.04482	-0.89646	SLV FO 9	-0.00726	-0.14516
	SLV FO 3	-0.0665	-1.32998	SLV FO 13	-0.00838	-0.16762
	SLV FO 11	-0.03727	-0.74542	SLV FO 5	-0.00219	-0.04374
	SLV FO 7	-0.06496	-1.29915	SLV FO 9	-0.00725	-0.14507
	SLV FO 7	-0.04367	-0.87343	SLV FO 9	-0.00748	-0.14951
	SLV FO 7	-0.03083	-0.6167	SLV FO 9	-0.0032	-0.06404
	SLV FO 7	-0.07015	-1.40294	SLV FO 9	-0.0045	-0.08998
	SLV FO 7	-0.04506	-0.90115	SLV FO 9	-0.00709	-0.14188
	SLV FO 7	-0.02688	-0.5377	SLV FO 9	-0.00394	-0.07881
	SLV FO 7	-0.06668	-1.3335	SLV FO 9	-0.00346	-0.06929
	SLV FO 7	-0.04853	-0.97063	SLV FO 9	-0.0056	-0.11205
	SLV FO 7	-0.02457	-0.49148	SLV FO 9	-0.00457	-0.09137
	SLV FO 7	-0.05148	-1.0297	SLV FO 9	-0.00314	-0.06272
	SLV FO 11	-0.02427	-0.48548	SLV FO 5	-0.00455	-0.09093
	SLV FO 7	-0.05781	-1.15624	SLV FO 9	-0.00089	-0.0178
	SLV FO 11	-0.02543	-0.50856	SLV FO 5	-0.00379	-0.07588
	SLV FO 7	-0.04812	-0.96242	SLV FO 9	-0.00085	-0.01709
	SLV FO 7	-0.02701	-0.54025	SLV FO 9	-0.00236	-0.04719
	SLV FO 7	-0.04303	-0.86055	SLV FO 9	0.00046	0.00918
	SLV FO 7	-0.0276	-0.55198	SLV FO 9	-0.00045	-0.00906
	SLV FO 7	-0.02635	-0.52705	SLV FO 9	0.0014	0.02793

4.2 Spostamenti di interpiano

Nodo inferiore: Nodo inferiore.

I.: Numero dell'elemento nell'insieme che lo contiene.

Pos.: Coordinate del nodo.

X: Coordinata X. [cm]

Y: Coordinata Y. [cm]

Z: Coordinata Z. [cm]

Nodo superiore: Nodo superiore.

I.: Numero dell'elemento nell'insieme che lo contiene.

Pos.: Coordinate del nodo.

Z: Coordinata Z. [cm]

Spost. rel.: Spostamento relativo. Il valore è adimensionale.

Comb.: Combinazione.

n.b.: Nome breve o compatto della combinazione di carico.

Spostamento inferiore: Spostamento in pianta del nodo inferiore.

X: Coordinata X. [cm]

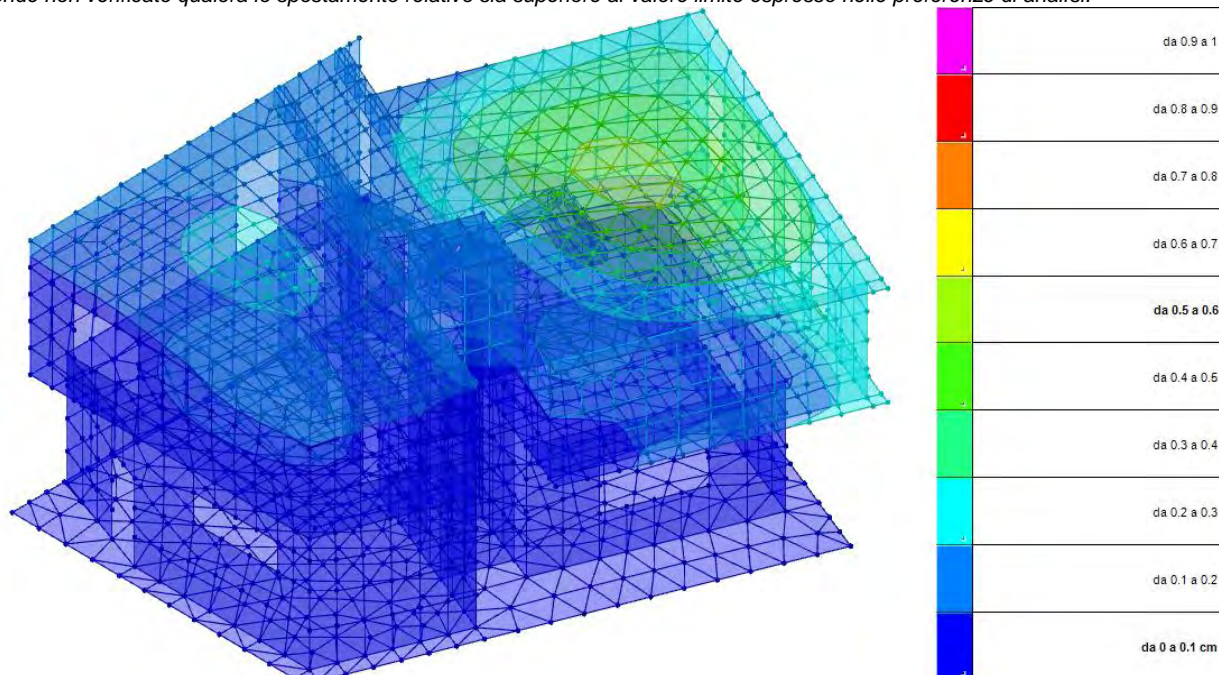
Y: Coordinata Y. [cm]

Spostamento superiore: Spostamento in pianta del nodo superiore.

X: Coordinata X. [cm]

Y: Coordinata Y. [cm]

S.V.: Si intende non verificato qualora lo spostamento relativo sia superiore al valore limite espresso nelle preferenze di analisi.



I.	Nodo inferiore			Nodo superiore			Spost. rel.	Comb.	Spostamento inferiore		Spostamento superiore		S.V.
	Pos.			Pos.					X	Y	X	Y	
	X	Y	Z	I.	Z			n.b.					
1489	1611.2	1745	646.5	1814	790		0.000068	SLO 15	0.007	0.024	0	0.031	si
1489	1611.2	1745	646.5	1814	790		0.000068	SLO 16	0.007	0.024	0	0.031	si
1490	1446.3	1810.5	646.5	1818	790		0.000111	SLO 1	-0.061	0.008	-0.076	0.006	si
1490	1446.3	1810.5	646.5	1818	790		0.000111	SLO 2	-0.061	0.008	-0.076	0.006	si
1490	1446.3	1810.5	646.5	1818	790		0.000101	SLO 3	-0.055	0.031	-0.07	0.034	si
1490	1446.3	1810.5	646.5	1818	790		0.000101	SLO 4	-0.055	0.031	-0.07	0.034	si
1490	1446.3	1810.5	646.5	1818	790		0.000107	SLO 5	-0.045	-0.017	-0.059	-0.023	si
1490	1446.3	1810.5	646.5	1818	790		0.000107	SLO 6	-0.045	-0.017	-0.059	-0.023	si
1490	1446.3	1810.5	646.5	1818	790		0.000088	SLO 7	-0.027	0.061	-0.037	0.07	si
1490	1446.3	1810.5	646.5	1818	790		0.000088	SLO 8	-0.027	0.061	-0.037	0.07	si
1490	1446.3	1810.5	646.5	1818	790		0.000086	SLO 9	-0.026	-0.014	-0.037	-0.02	si
1490	1446.3	1810.5	646.5	1818	790		0.000086	SLO 10	-0.026	-0.014	-0.037	-0.02	si
1490	1446.3	1810.5	646.5	1818	790		0.000079	SLO 11	-0.009	0.064	-0.015	0.073	si
1490	1446.3	1810.5	646.5	1818	790		0.000079	SLO 12	-0.009	0.064	-0.015	0.073	si
1490	1446.3	1810.5	646.5	1818	790		0.000041	SLO 13	0.002	0.016	-0.004	0.016	si
1490	1446.3	1810.5	646.5	1818	790		0.000041	SLO 14	0.002	0.016	-0.004	0.016	si
1490	1446.3	1810.5	646.5	1818	790		0.000045	SLO 15	0.007	0.039	0.002	0.044	si
1490	1446.3	1810.5	646.5	1818	790		0.000045	SLO 16	0.007	0.039	0.002	0.044	si
1542	1546.6	1582.4	657.6	1802	790		0.000138	SLO 1	-0.06	0.014	-0.076	0.006	si
1542	1546.6	1582.4	657.6	1802	790		0.000138	SLO 2	-0.06	0.014	-0.076	0.006	si
1542	1546.6	1582.4	657.6	1802	790		0.000121	SLO 3	-0.056	0.036	-0.072	0.033	si
1542	1546.6	1582.4	657.6	1802	790		0.000121	SLO 4	-0.056	0.036	-0.072	0.033	si
1542	1546.6	1582.4	657.6	1802	790		0.000118	SLO 5	-0.042	-0.016	-0.057	-0.021	si
1542	1546.6	1582.4	657.6	1802	790		0.000118	SLO 6	-0.042	-0.016	-0.057	-0.021	si
1542	1546.6	1582.4	657.6	1802	790		0.000111	SLO 7	-0.031	0.059	-0.043	0.068	si
1542	1546.6	1582.4	657.6	1802	790		0.000111	SLO 8	-0.031	0.059	-0.043	0.068	si
1542	1546.6	1582.4	657.6	1802	790		0.000091	SLO 9	-0.024	-0.019	-0.036	-0.018	si
1542	1546.6	1582.4	657.6	1802	790		0.000091	SLO 10	-0.024	-0.019	-0.036	-0.018	si
1542	1546.6	1582.4	657.6	1802	790		0.000136	SLO 11	-0.012	0.055	-0.022	0.071	si
1542	1546.6	1582.4	657.6	1802	790		0.000136	SLO 12	-0.012	0.055	-0.022	0.071	si
1542	1546.6	1582.4	657.6	1802	790		0.000118	SLO 13	0.001	0.003	-0.007	0.017	si
1542	1546.6	1582.4	657.6	1802	790		0.000118	SLO 14	0.001	0.003	-0.007	0.017	si
1542	1546.6	1582.4	657.6	1802	790		0.000145	SLO 15	0.005	0.026	-0.003	0.043	si
1542	1546.6	1582.4	657.6	1802	790		0.000145	SLO 16	0.005	0.026	-0.003	0.043	si
1545	1381.7	1647.9	657.6	1806	790		0.000113	SLO 1	-0.061	0.005	-0.076	0.007	si
1545	1381.7	1647.9	657.6	1806	790		0.000113	SLO 2	-0.061	0.005	-0.076	0.007	si
1545	1381.7	1647.9	657.6	1806	790		0.000114	SLO 3	-0.057	0.03	-0.071	0.035	si
1545	1381.7	1647.9	657.6	1806	790		0.000114	SLO 4	-0.057	0.03	-0.071	0.035	si
1545	1381.7	1647.9	657.6	1806	790		0.000105	SLO 5	-0.044	-0.02	-0.058	-0.023	si
1545	1381.7	1647.9	657.6	1806	790		0.000105	SLO 6	-0.044	-0.02	-0.058	-0.023	si
1545	1381.7	1647.9	657.6	1806	790		0.000113	SLO 7	-0.03	0.061	-0.041	0.072	si
1545	1381.7	1647.9	657.6	1806	790		0.000113	SLO 8	-0.03	0.061	-0.041	0.072	si
1545	1381.7	1647.9	657.6	1806	790		0.000088	SLO 9	-0.025	-0.018	-0.036	-0.021	si
1545	1381.7	1647.9	657.6	1806	790		0.000088	SLO 10	-0.025	-0.018	-0.036	-0.021	si
1545	1381.7	1647.9	657.6	1806	790		0.000105	SLO 11	-0.011	0.064	-0.02	0.075	si
1545	1381.7	1647.9	657.6	1806	790		0.000105	SLO 12	-0.011	0.064	-0.02	0.075	si
1545	1381.7	1647.9	657.6	1806	790		0.000061	SLO 13	0.002	0.014	-0.006	0.016	si
1545	1381.7	1647.9	657.6	1806	790		0.000061	SLO 14	0.002	0.014	-0.006	0.016	si
1545	1381.7	1647.9	657.6	1806	790		0.000072	SLO 15	0.006	0.038	-0.001	0.045	si
1545	1381.7	1647.9	657.6	1806	790		0.000072	SLO 16	0.006	0.038	-0.001	0.045	si

4.3 Verifica effetti secondo ordine

Quota inf.: Quota inferiore esprimibile come livello, falda, piano orizzontale alla Z specificata, espressa con notazione breve. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]

Quota sup.: Quota superiore esprimibile come livello, falda, piano orizzontale alla Z specificata, espressa con notazione breve. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]

Comb.: Combinazione.

n.b.: Nome breve o compatto della combinazione di carico.

Carico verticale: Carico verticale. [daN]

Spostamento: Spostamento medio di interpiano. [cm]

Forza orizzontale totale: Forza orizzontale totale. [daN]

Altezza del piano: Altezza del piano. [cm]

Theta: Coefficiente Theta formula (7.3.2) § 7.3.1 NTC 2008. Il valore è adimensionale.

Quota inf.	Quota sup.	Comb.	Carico verticale	Spostamento	Forza orizzontale totale	Altezza del piano	Theta
		n.b.					
L1	L2	SLV 1	542150	0.037	260119	348	0
L1	L2	SLV 2	542150	0.037	260119	348	0
L1	L2	SLV 3	542074	0.045	266796	348	0
L1	L2	SLV 4	542074	0.045	266796	348	0
L1	L2	SLV 5	540125	0.036	259883	348	0
L1	L2	SLV 6	540125	0.036	259883	348	0
L1	L2	SLV 7	539870	0.05	266566	348	0
L1	L2	SLV 8	539870	0.05	266566	348	0
L1	L2	SLV 9	538312	0.038	266566	348	0
L1	L2	SLV 10	538312	0.038	266566	348	0
L1	L2	SLV 11	538057	0.044	259883	348	0
L1	L2	SLV 12	538057	0.044	259883	348	0
L1	L2	SLV 13	536108	0.033	266796	348	0
L1	L2	SLV 14	536108	0.033	266796	348	0
L1	L2	SLV 15	536032	0.03	260119	348	0
L1	L2	SLV 16	536032	0.03	260119	348	0

4.4 Risposta di spettro

Spettro: Condizione elementare corrispondente allo spettro.

n.b.: Nome breve della condizione elementare.

Fx: Componente della forza lungo l'asse X. [daN]

Fy: Componente della forza lungo l'asse Y. [daN]

Fz: Componente della forza lungo l'asse Z. [daN]

Mx: Componente della coppia attorno all'asse X. [daN*cm]

My: Componente della coppia attorno all'asse Y. [daN*cm]

Mz: Componente della coppia attorno all'asse Z. [daN*cm]

Max X: Massima reazione lungo l'asse X.

Valore: Valore massimo della reazione. [daN]

Angolo: Angolo d'ingresso del sisma che provoca il valore massimo della reazione. [deg]

Max Y: Massima reazione lungo l'asse Y.

Valore: Valore massimo della reazione. [daN]

Angolo: Angolo d'ingresso del sisma che provoca il valore massimo della reazione. [deg]

Max Z: Massima reazione lungo l'asse Z.

Valore: Valore massimo della reazione. [daN]

Angolo: Angolo d'ingresso del sisma che provoca il valore massimo della reazione. [deg]

Spettro n.b.	Fx	Fy	Fz	Mx	My	Mz	Max X		Max Y		Max Z	
							Valore	Angolo	Valore	Angolo	Valore	Angolo
X SLV	266192.67	34380.21	0	1.623E07	1.336E08	4.454E08	267261.24	174	259260.02	87	0	0
Y SLV	34380.21	258938.04	0	1.333E08	1.747E07	2.948E08	267261.24	174	259260.02	87	0	0
X SLO	89091.9	11505.42	0	5.442E06	4.474E07	1.491E08	89448.36	174	87258.26	87	0	0
Y SLO	11505.42	87149.4	0	4.488E07	5858034.2	9.913E07	89448.36	174	87258.26	87	0	0

5 Verifiche

5.1 Verifiche travate C.A.

N°: indice progressivo della sezione

Descrizione: descrizione della sezione

Tipo: tipo di sezione

Base: base della sezione [cm]

Altezza: altezza della sezione [cm]

Copriferro sup.: distanza del bordo della staffa dalla superficie superiore del getto [cm]

Copriferro inf.: distanza del bordo della staffa dalla superficie inferiore del getto [cm]

Copriferro lat.: distanza del bordo della staffa dalle superfici laterali del getto [cm]

x: distanza da asse appoggio sinistro [cm]

A sup.: area efficace di armatura longitudinale superiore [cm²]

C.b. sup.: distanza dal bordo del baricentro dell'armatura longitudinale superiore [cm]

A inf.: area efficace di armatura longitudinale inferiore [cm²]

C.b. inf.: distanza dal bordo del baricentro dell'armatura longitudinale inferiore [cm]

M+ela: momento flettente desunto dal solutore che tende le fibre inferiori [daN*cm]

Comb.: combinazione

M+des: momento flettente di progetto che tende le fibre inferiori [daN*cm]

M+ult: momento ultimo per trazione delle fibre inferiori [daN*cm]

x/d: rapporto tra posizione asse neutro e altezza utile

M-ela: momento flettente desunto dal solutore che tende le fibre superiori [daN*cm]

M-des: momento flettente di progetto che tende le fibre superiori [daN*cm]

M-ult: momento ultimo per trazione delle fibre superiori [daN*cm]

Verifica: stato di verifica

A st: area di staffe per unità di lunghezza [cm²]

A sl: area di armatura longitudinale tesa per valutazione resistenza taglio in assenza di armature a taglio [cm²]

A sag: area equivalente di barre piegate per unità di lunghezza [cm²]

Vela: taglio elastico [daN]

Vdes: taglio di progetto [daN]

Vrd: resistenza a taglio della sezione senza armature [daN]

Vrcd: sforzo di taglio che produce il cedimento delle bielle [daN]

Vrsd: resistenza a taglio per la presenza delle armature [daN]

Vult: taglio ultimo [daN]

cotgθ: cotg dell'angolo di inclinazione dei puntoni in calcestruzzo

Rara: famiglia di combinazione di verifica

Mela: momento elastico [daN*cm]

Mdes: momento di progetto [daN*cm]

σ c: tensione di compressione nel calcestruzzo [daN/cm²]

σ f: tensione di trazione nell'acciaio [daN/cm²]

Elastica+: massima freccia a sezione interamente reagente di solo calcestruzzo [cm]

Elastica-: minima freccia a sezione interamente reagente di solo calcestruzzo [cm]

Fess.+: massima freccia a sezione fessurata ed omogeneizzata [cm]

Fess.-: minima freccia a sezione fessurata ed omogeneizzata [cm]

Quasi permanente: famiglia di combinazione di verifica

Fess. viscosa+: massima freccia a sezione fessurata ed omogeneizzata a viscosità esaurita [cm]

Fess. viscosa-: minima freccia a sezione fessurata ed omogeneizzata a viscosità esaurita [cm]

l/f: rapporto luce su freccia in combinazione quasi permanente

Frequente: famiglia di combinazione di verifica

x: ascissa relativa [cm]

taglio negativo: valori per taglio negativo

contr. grav.: contributo azioni gravitazionali [daN]

contr. mom. res.: contributo dei momenti resistenti [daN]

taglio positivo: valori per taglio positivo

Bordo: bordo interessato dalla fessura

Rara: famiglia di combinazione per verifica inferiore

Dmax: distanza massima tra le fessure [cm]

Esm: dilatazione media delle barre di armatura

Wd: valore di calcolo di apertura delle fessure [cm]

Comb: combinazione

Frequente: famiglia di combinazione per verifica inferiore

Quasi permanente: famiglia di combinazione per verifica inferiore

campata: campata

appoggio: appoggio

momento positivo: momento resistente positivo [daN*cm]

momento negativo: momento resistente negativo [daN*cm]

N°: indice progressivo

Spessore anima: spessore dell'anima [cm]

Sp. ala sup.: spessore dell'ala superiore [cm]

Sp. ala inf.: spessore dell'ala inferiore [cm]

Largh. ala sx: sporgenza ala sx [cm]

Largh. ala dx: sporgenza ala dx [cm]

C. sup.: copriferro superiore [cm]

C. inf.: copriferro inferiore [cm]
C. lat: copriferro laterale [cm]
d: altezza utile [cm]
Af: area di armatura inferiore per unità di lunghezza [cm]
M: momento flettente [daN*cm]
Mult: momento ultimo [daN*cm]
V: sforzo di taglio [daN]
Vult: sforzo di taglio ultimo [daN]
Aste: numero delle aste del tratto in verifica
Size X: misura dell'impronta al suolo lungo la direzione X locale [cm]
Size Y: misura dell'impronta al suolo lungo la direzione Y locale [cm]
Type: indicazione del tipo di combinazione statica o sismica
Cond: indicazione della condizione di carico (BT breve termine o LT lungo termine)
 γ_R : coefficiente parziale sulla resistenza di progetto
Rd: resistenza di progetto [daN]
Ed: azione di progetto [daN]
Rd/Ed: coefficiente di sicurezza alla capacità portante
Fx: componente orizzontale del carico lungo x [daN]
Fy: componente orizzontale del carico lungo y [daN]
Fz: componente verticale del carico [daN]
Mx: momento risultante agente attorno x [daN*cm]
My: momento risultante agente attorno y [daN*cm]
Inc.x: inclinazione del carico lungo x [deg]
Inc.y: inclinazione del carico lungo y [deg]
Ecc.x: eccentricità del carico lungo x [cm]
Ecc.y: eccentricità del carico lungo y [cm]
B*: larghezza efficace [cm]
L*: lunghezza efficace [cm]
qd: sovraccarico di progetto [daN/cm²]
 γ_s : peso specifico di progetto del suolo [daN/cm³]
Fi: angolo di attrito di progetto [deg]
Coes: coesione di progetto [daN/cm²]
Amax: accelerazione normalizzata max al suolo
N:
Nq: fattore di capacità portante per il termine di sovraccarico
Nc: fattore di capacità portante per il termine coesivo
Ng: fattore di capacità portante per il termine attritivo
S:
Sq: fattore correttivo di capacità portante per forma (shape), per il termine di sovraccarico
Sc: fattore correttivo di capacità portante per forma (shape), per il termine coesivo
Sg: fattore correttivo di capacità portante per forma (shape), per il termine attritivo
D:
Dq: fattore correttivo di capacità portante per approfondimento (deep), per il termine di sovraccarico
Dc: fattore correttivo di capacità portante per approfondimento (deep), per il termine coesivo
Dg: fattore correttivo di capacità portante per approfondimento (deep), per il termine attritivo
I:
Iq: fattore correttivo di capacità portante per inclinazione del carico, per il termine di sovraccarico
Ic: fattore correttivo di capacità portante per inclinazione del carico, per il termine coesivo
Ig: fattore correttivo di capacità portante per inclinazione del carico, per il termine attritivo
B:
Bq: fattore correttivo di capacità portante per inclinazione della base, per il termine di sovraccarico
Bc: fattore correttivo di capacità portante per inclinazione della base, per il termine coesivo
Bg: fattore correttivo di capacità portante per inclinazione della base, per il termine attritivo
G:
Gq: fattore correttivo di capacità portante per inclinazione del pendio, per il termine di sovraccarico
Gc: fattore correttivo di capacità portante per inclinazione del pendio, per il termine coesivo
Gg: fattore correttivo di capacità portante per inclinazione del pendio, per il termine attritivo
P:
Pq: fattore correttivo di capacità portante per punzonamento, per il termine di sovraccarico
Pc: fattore correttivo di capacità portante per punzonamento, per il termine coesivo
Pg: fattore correttivo di capacità portante per punzonamento, per il termine attritivo
E:
Eq: fattore correttivo di capacità portante per sisma (earthquake), per il termine di sovraccarico
Ec: fattore correttivo di capacità portante per sisma (earthquake), per il termine coesivo
Eg: fattore correttivo di capacità portante per sisma (earthquake), per il termine attritivo
Tipo: tipologia di cedimento considerato (E = elastico, D = edometrico, Z = consolidazione primaria)
Assoluto: cedimento assoluto massimo
Sa adm: cedimento assoluto ammissibile [cm]
Sa: cedimento assoluto massimo [cm]
Nodo: nodo dove avviene il cedimento assoluto massimo
Differenziale: cedimento differenziale massimo
Sd adm: cedimento differenziale ammissibile [cm]
Sd: cedimento differenziale massimo [cm]
Nodo I: nodo dove avviene il cedimento differenziale massimo
Nodo j: nodo dove avviene il cedimento differenziale massimo
Relativo: cedimento relativo massimo
Sr adm: cedimento relativo ammissibile [cm]
Sr: cedimento relativo massimo [cm]
Nodo: nodo dove avviene il cedimento relativo massimo
Rapp. inflessione: rapporto di inflessione (cedimento relativo max su lunghezza complessiva tratta)
RI adm: rapporto di inflessione ammissibile

RI: rapporto di inflessione (cedimento relativo max su lunghezza complessiva tratta)

Rotazione rigida: rotazione rigida valutata tra primo ed ultimo punto

RR adm: rotazione rigida ammissibile [deg]

RR: rotazione rigida massima (tra primo ed ultimo punto) [deg]

Rotazione assoluta: rotazione assoluta dei singoli tratti

R Adm: rotazione assoluta ammissibile [deg]

R Max: rotazione assoluta massima [deg]

Nodo I: dal nodo

Nodo J: al nodo

Distorsione angolare positiva: distorsione angolare positiva (concavità verso l'alto)

D+ adm: distorsione angolare ammissibile [deg]

D+: distorsione angolare massima positiva (concavità verso l'alto) [deg]

Nodo: nodo dove avviene la distorsione angolare massima positiva (concavità verso l'alto)

Distorsione angolare negativa: distorsione angolare negativa (concavità verso il basso)

D- adm: distorsione angolare ammissibile [deg]

D-: distorsione angolare massima negativa (concavità verso il basso) [deg]

Nodo: nodo dove avviene la distorsione angolare massima negativa (concavità verso il basso)

σ min.: pressione minima [daN/cm²]

σ lim.: pressione limite [daN/cm²]

Coeff. sic.: coefficiente di sicurezza

Le unità di misura delle verifiche elencate nel capitolo sono in [cm, daN, deg] ove non espressamente specificato.

Trave a T1 primo solaio: fili 2-14

Caratteristiche dei materiali

Acciaio: B450C Fyk 4500

Calcestruzzo: C28/35 Rck 350

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 25x40	Rettangolare	25	40	3	3	3

Output campate

Campata 2 tra i fili 9 - ?, sezione R 25x40, asta 25; campata a comportamento dissipativo

Verifiche a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	M-ela	Comb.	M-des	M-ult	x/d	Verifica
0	4.62	4.7	4.62	4.7	290726	SLV 7	456080	597325	0.141						Si
6	4.62	4.7	4.62	4.7	398582	SLU 18	456080	597325	0.141						Si
9	4.62	4.7	4.62	4.7	456080	SLU 18	456080	597325	0.141						Si
13	4.62	4.7	4.62	4.7	537225	SLU 18	522262	597325	0.141						Si
19	4.62	4.7	4.62	4.7	675739	SLU 18	565991	597325	0.141						Si

Verifiche a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotg θ	Verifica
0	0.352	4.62	0	23502	Ger.	133912	4598	32687	43771	32687	1	No
0	0.352	4.62	0	7308	Ger.	-133864	-4598	-32687	-43771	-32687	1	No
6	0.352	4.62	0	23487	Ger.	133896	4598	32687	43771	32687	1	No
6	0.352	4.62	0	7293	Ger.	-133880	-4598	-32687	-43771	-32687	1	No
9	0.352	4.62	0	23480	Ger.	133889	4598	32687	43771	32687	1	No
9	0.352	4.62	0	7286	Ger.	-133887	-4598	-32687	-43771	-32687	1	No
13	0	4.62	0	23471	Ger.	133880	4598	22543	0	4598	2.5	Si
13	0	4.62	0	7277	Ger.	-133896	-4598	-22543	0	-4598	2.5	Si
19	0	4.62	0	23455	Ger.	133689	4598	22543	0	4598	2.5	Si
19	0	4.62	0	7261	Ger.	-134087	-4598	-22543	0	-4598	2.5	Si

Verifiche delle tensioni in esercizio

x	Rara					Quasi permanente					Verifica
	Mela	Comb.	Mdes	σ c	σ f	Mela	Comb.	Mdes	σ c		
0	195683	3	343275	65.1	2354.6	181205	2	318564	60.4	Si	
6	300038	3	343275	65.1	2354.6	278326	2	318564	60.4	Si	
9	343275	3	343275	65.1	2354.6	318564	2	318564	60.4	Si	
13	404294	3	393042	74.5	2696	375347	2	364877	69.2	Si	
19	508450	3	425925	80.7	2921.5	472269	2	395479	75	Si	

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	inferiore	26.3	0.00069	0.0181	3	26.3	0.0007	0.0183	3	26.3	0.00068	0.018	2	Si
6	inferiore	26.3	0.00069	0.0181	3	26.3	0.0007	0.0183	3	26.3	0.00068	0.018	2	Si
9	inferiore	26.3	0.00069	0.0181	3	26.3	0.0007	0.0183	3	26.3	0.00068	0.018	2	Si
13	inferiore	26.3	0.00079	0.0207	3	26.3	0.00085	0.0224	3	26.3	0.00084	0.0221	2	Si
19	inferiore	26.3	0.00085	0.0225	3	26.3	0.00096	0.0252	3	26.3	0.00094	0.0247	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente					Verifica		
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-		Comb.	l/f
6	0	0	0	0	0	0	0	0	0	0	0.001	2	0.001	2	9999	Si
9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	2	0.001	2	9999	Si
11	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	2	0.001	2	9999	Si
13	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	2	0.001	2	9999	Si

Valutazione dei tagli secondo gerarchia delle resistenze

x	taglio negativo					taglio positivo				
	contr. grav.	Vdes	contr. mom. res.	Vela		contr. grav.	Vdes	contr. mom. res.	Vela	
0	24	-133864	-133888	7308		24	133912	133888	23502	
6	8	-133880	-133888	7293		8	133896	133888	23487	
9	1	-133887	-133888	7286		1	133889	133888	23480	
13	-8	-133896	-133888	7277		-8	133880	133888	23471	
19	-199	-134087	-133888	7261		-199	133689	133888	23455	

Campata 3 tra i fili ? - 14, sezione R 25x40, aste 24, 23; campata a comportamento dissipativo

Verifiche a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	M-ela	Comb.	M-des	M-ult	x/d	Verifica
0	4.62	4.7	4.62	4.7	561878	SLU 18	536564	597325	0.141						Si
10	4.62	4.7	4.62	4.7	511090	SLU 18	511090	597325	0.141						Si

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	M-ela	Comb.	M-des	M-ult	x/d	Verifica
54	4.62	4.7	4.62	4.7	282128	SLV 18	488175	597325	0.141	173182	SLV 11	-14407	-597325	0.141	Si
109	4.62	4.7	4.62	4.7	12483	SLV 13	205866	597325	0.141	-86577	SLV 3	-287868	-597325	0.141	Si
150	4.62	4.7	4.62	4.7	-112500	SLV 13	6622	597325	0.141	-298029	SLV 3	-298029	-597325	0.141	Si
163	4.62	4.7	4.62	4.7						-366838	SLV 18	-330212	-597325	0.141	Si

Verifiche a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	Verifica
0	0	4.62	0	-2845	Ger.	8883	4598	22543	0	4598	2.5	Si
0	0	4.62	0	-5062	Ger.	-8129	-4598	-22543	0	-4598	2.5	Si
10	0.19	4.62	0	-2870	Ger.	8858	4598	31593	30728	30728	1.3	Si
10	0.19	4.62	0	-5095	Ger.	-8154	-4598	-31593	-30728	-30728	1.3	Si
54	0.19	4.62	0	-2981	Ger.	8748	4598	31593	30728	30728	1.3	Si
54	0.19	4.62	0	-5239	Ger.	-8265	-4598	-31593	-30728	-30728	1.3	Si
109	0.19	4.62	0	-2933	Ger.	8265	4598	31593	30728	30728	1.3	Si
109	0.19	4.62	0	-5684	Ger.	-8748	-4598	-31593	-30728	-30728	1.3	Si
150	0.19	4.62	0	-3037	Ger.	8160	4598	31593	30728	30728	1.3	Si
150	0.19	4.62	0	-5820	Ger.	-8852	-4598	-31593	-30728	-30728	1.3	Si
163	0	4.62	0	-3069	Ger.	7791	4598	22543	0	4598	2.5	Si
163	0	4.62	0	-5861	Ger.	-9221	-4598	-22543	0	-4598	2.5	Si

Verifiche delle tensioni in esercizio

x	Mela	Comb.	Rara Mdes	σ c	σ f	Mela	Comb.	Quasi permanente Mdes	σ c	Verifica
0	422711	3	403662	76.5	2768.8	393143	2	375478	71.2	Si
10	384490	3	384490	72.9	2637.3	357689	2	357689	67.8	Si
54	212113	3	367242	69.6	2519	197575	2	341684	64.8	Si
109	-40116	3	-212067	40.2	1454.6	-37047	2	-197164	37.4	Si
150	-220759	3	-220759	41.8	1514.2	-205265	2	-205265	38.9	Si
163	-275605	3	-248085	47	1701.7	-256397	2	-230734	43.7	Si

Verifica di apertura delle fessure

x	Bordo	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Verifica
0	inferiore	26.3	0.00081	0.0212	3	26.3	0.00089	0.0234	3	26.3	0.00087	0.023	2	Si
10	inferiore	26.3	0.00077	0.0202	3	26.3	0.00083	0.0218	3	26.3	0.00081	0.0214	2	Si
54	inferiore	26.3	0.00073	0.0193	3	26.3	0.00077	0.0204	3	26.3	0.00076	0.02	2	Si
163	superiore	26.3	0.0005	0.0131	3	26.3	0.00047	0.0123	4	26.3	0.00046	0.0121	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente				Verifica			
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.		Fess. viscosa-	Comb.	lf
10	0.003	0.003	0.005	0.004	0.003	0.003	0.004	0.004	0.003	0.003	0.011	2	0.011	2	9999	Si
43	0.009	0.008	0.01	0.009	0.008	0.008	0.009	0.009	0.008	0.008	0.026	2	0.024	2	6254	Si
54	0.009	0.008	0.01	0.009	0.008	0.008	0.009	0.009	0.008	0.008	0.026	2	0.024	2	6381	Si
109	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.01	2	0.009	2	9999	Si
150	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9999	Si
163	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9999	Si

Valutazione dei tagli secondo gerarchia delle resistenze

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	377	-8129	-8506	-5062	377	8883	8506	-2845
10	352	-8154	-8506	-5095	352	8858	8506	-2870
54	241	-8265	-8506	-5239	241	8748	8506	-2981
109	-241	-8748	-8506	-5684	-241	8265	8506	-2933
150	-346	-8852	-8506	-5820	-346	8160	8506	-3037
163	-715	-9221	-8506	-5861	-715	7791	8506	-3069

Momenti resistenti a filo appoggi

campata	x	appoggio	Mb,Rd +	Mb,Rd -
2	0	9	597325	-597325
2	9	?	597325	-597325
3	10	?	597325	-597325
3	150	14	597325	-597325

Trave a T2 soletta di copertura: fili 3-19

Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C28/35 Rck 350

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copri ferro sup.	Copri ferro inf.	Copri ferro lat.
1	R 25*50	Rettangolare	25	50	4	4	2

Output campate

Campata 1 tra i fili 3 - 10, sezione R 25*50, aste 1, 2, 3; campata a comportamento dissipativo

Verifiche a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	M-ela	Comb.	M-des	M-ult	x/d	Verifica
0	4.62	5.5	4.62	5.5	10689	SLV 7	2976	764510	0.124	-32438	SLV 9	-32438	-764510	0.124	Si
10	4.62	5.5	4.62	5.5						-37298	SLV 9	-120528	-764510	0.124	Si
57	4.62	5.5	4.62	5.5	-48729	SLV 13	8287	764510	0.124	-114065	SLV 17	-230615	-764510	0.124	Si
114	4.62	5.5	4.62	5.5	-83854	SLV 13	8303	764510	0.124	-253746	SLV 3	-428258	-764510	0.124	Si
161	4.62	5.5	4.62	5.5						-428258	SLV 3	-428258	-764510	0.124	Si
171	4.62	5.5	4.62	5.5						-466326	SLV 3	-447180	-764510	0.124	Si

Verifiche a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	Verifica
0	0	4.62	0	-261	Ger.	10111	5114	28418	0	5114	2.5	Si
0	0	4.62	0	-1763	Ger.	-10161	-5114	-28418	0	-5114	2.5	Si
10	0.101	4.62	0	-293	Ger.	10115	5114	32473	32362	32362	2.05	Si
10	0.101	4.62	0	-1795	Ger.	-10158	-5114	-32473	-32362	-32362	2.05	Si
57	0.101	4.62	0	-468	Ger.	10127	5114	32473	32362	32362	2.05	Si
57	0.101	4.62	0	-2400	Ger.	-10145	-5114	-32473	-32362	-32362	2.05	Si
114	0.101	4.62	0	-1190	Ger.	10145	5114	32473	32362	32362	2.05	Si

campata	x	appoggio	Mb,Rd +	Mb,Rd -
2	614	19	764510	-764510

Trave a T3 soletta di copertura: fili 4-20

Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C28/35 Rck 350

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 25*50	Rettagonolare	25	50	4	4	2

Output campate

Campata 1 tra i fili 4 - 16, sezione R 25*50, aste 12, 13, 14, 15; campata a comportamento dissipativo

Verifiche a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	M-ela	Comb.	M-des	M-ult	x/d	Verifica
0	4.62	5.5	4.62	5.5	16618	SLV 11	16618	764510	0.124	-16553	SLV 5	-10106	-764510	0.124	Si
10	4.62	5.5	4.62	5.5	23941	SLV 11	80915	764510	0.124	-3733	SLV 5	-3733	-764510	0.124	Si
84	4.62	5.5	4.62	5.5	106031	SLV 18	141909	764510	0.124						Si
168	4.62	5.5	4.62	5.5	148667	SLV 9	150902	764510	0.124	-9627	SLV 7	-145400	-764510	0.124	Si
252	4.62	5.5	4.62	5.5	77959	SLV 5	130450	764510	0.124	-252492	SLV 11	-252492	-764510	0.124	Si

Verifiche a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	Verifica
0	0	4.62	0	1468	Ger.	6273	5114	28418	0	5114	2.5	Si
0	0	4.62	0	668	Ger.	-6375	-5114	-28418	0	-5114	2.5	Si
10	0.101	4.62	0	1427	Ger.	6279	5114	32473	32362	32362	2.05	Si
10	0.101	4.62	0	637	Ger.	-6369	-5114	-32473	-32362	-32362	2.05	Si
84	0.042	4.62	0	1024	Ger.	6307	5114	28418	16645	16645	2.5	Si
84	0.042	4.62	0	-62	Ger.	-6341	-5114	-28418	-16645	-16645	2.5	Si
168	0.042	4.62	0	210	Ger.	6340	5114	28418	16645	16645	2.5	Si
168	0.042	4.62	0	-1120	Ger.	-6308	-5114	-28418	-16645	-16645	2.5	Si
252	0.101	4.62	0	-1109	Ger.	6381	5114	32473	32362	32362	2.05	Si
252	0.101	4.62	0	-3211	Ger.	-6267	-5114	-32473	-32362	-32362	2.05	Si

Verifiche delle tensioni in esercizio

x	Mela	Comb.	Rara Mdes	σ c	σ f	Mela	Comb.	Mdes	σ c	Verifica
0	79	1	79	0	0.4	79	1	79	0	Si
0	-303	3	-303	0	1.6	-303	3	-303	0	Si
10	10664	2	60941	8.1	328.3	10125	1	56167	7.4	Si
84	79780	3	95889	12.7	516.5	73331	2	87752	11.6	Si
168	76582	3	95803	12.7	516.1	69520	2	87662	11.6	Si
252	-93368	3	-93368	12.4	502.9	-87267	2	-87267	11.6	Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara	Frequente	Quasi permanente	Verifica													
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	lf		
10	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	2	0.002	2	9999	Si
84	0.006	0.006	0.005	0.005	0.006	0.006	0.005	0.005	0.006	0.006	0.012	2	0.012	2	9999	Si	
117	0.007	0.007	0.006	0.005	0.007	0.007	0.005	0.005	0.007	0.007	0.014	2	0.014	2	9999	Si	
168	0.006	0.006	0.005	0.004	0.006	0.006	0.005	0.004	0.006	0.006	0.012	2	0.011	2	9999	Si	

Valutazione dei tagli secondo gerarchia delle resistenze

x	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	-51	-6375	-6324	668	-51	6273	6324	1468
10	-45	-6369	-6324	637	-45	6279	6324	1427
84	-17	-6341	-6324	-62	-17	6307	6324	1024
168	16	-6308	-6324	-1120	16	6340	6324	210
252	57	-6267	-6324	-3211	57	6381	6324	-1109

Campata 3 tra i fili 17 - 20, sezione R 25*50, aste 19, 20, 21, 22; campata a comportamento dissipativo

Verifiche a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	M-ela	Comb.	M-des	M-ult	x/d	Verifica
0	4.62	5.5	4.62	5.5	249727	SLV 11	249727	764510	0.124	-333197	SLV 5	-333197	-764510	0.124	Si
87	4.62	5.5	4.62	5.5	196907	SLV 11	244609	764510	0.124	69446	SLV 5	-138923	-764510	0.124	Si
174	4.62	5.5	4.62	5.5	160365	SLV 5	203172	764510	0.124	-12929	SLV 11	-230440	-764510	0.124	Si
248	4.62	5.5	4.62	5.5	67433	SLV 5	150043	764510	0.124	-345884	SLV 11	-345884	-764510	0.124	Si
261	4.62	5.5	4.62	5.5	45553	SLV 5	45553	764510	0.124	-405492	SLV 11	-375531	-764510	0.124	Si

Verifiche a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	Verifica
0	0.101	4.62	0	5297	Ger.	6109	5114	32473	32362	32362	2.05	Si
0	0.101	4.62	0	-81	Ger.	-6202	-5114	-32473	-32362	-32362	2.05	Si
87	0.041	4.62	0	1879	Ger.	6140	5114	28418	15904	15904	2.5	Si
87	0.041	4.62	0	-1558	Ger.	-6171	-5114	-28418	-15904	-15904	2.5	Si
174	0.041	4.62	0	72	Ger.	6171	5114	28418	15904	15904	2.5	Si
174	0.041	4.62	0	-2818	Ger.	-6140	-5114	-28418	-15904	-15904	2.5	Si
248	0.101	4.62	0	-1724	Ger.	6200	5114	32473	32362	32362	2.05	Si
248	0.101	4.62	0	-4743	Ger.	-6111	-5114	-32473	-32362	-32362	2.05	Si
261	0	4.62	0	-1763	Ger.	6207	5114	28418	0	5114	2.5	Si
261	0	4.62	0	-4793	Ger.	-6104	-5114	-28418	0	-5114	2.5	Si

Verifiche delle tensioni in esercizio

x	Mela	Comb.	Rara Mdes	σ c	σ f	Mela	Comb.	Mdes	σ c	Verifica
0	-50604	2	-50604	6.7	272.6	-42731	1	-42731	5.7	Si
87	146318	3	152186	20.2	819.8	133177	2	137414	18.2	Si
174	83164	2	152186	20.2	819.8	74131	1	137414	18.2	Si
248	-152081	3	-152081	20.2	819.2	-139226	2	-139226	18.5	Si
261	-196860	3	-174305	23.1	938.9	-179970	2	-159436	21.1	Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara	Frequente	Quasi permanente	Verifica
---	------	-----------	------------------	----------

	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
87	0.011	0.01	0.008	0.008	0.01	0.01	0.008	0.008	0.01	0.01	0.02	1	0.02	1	9999	Si
113	0.012	0.01	0.009	0.008	0.011	0.01	0.009	0.008	0.011	0.01	0.022	1	0.022	1	9999	Si
174	0.009	0.008	0.007	0.006	0.008	0.008	0.006	0.006	0.008	0.008	0.016	1	0.016	1	9999	Si
248	0.001	0.001	0.001	0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1	0.001	1	9999	Si

Valutazione dei tagli secondo gerarchia delle resistenze

x	taglio negativo						taglio positivo									
	contr. grav.		Vdes		contr. mom. res.		Vela		contr. grav.		Vdes		contr. mom. res.		Vela	
0		-47		-6202		-6156		-81		-47		6109		6156		5297
87		-16		-6171		-6156		-1558		-16		6140		6156		1879
174		16		-6140		-6156		-2818		16		6171		6156		72
248		44		-6111		-6156		-4743		44		6200		6156		-1724
261		51		-6104		-6156		-4793		51		6207		6156		-1763

Momenti resistenti a filo appoggi

campata	x	appoggio	Mb,Rd +	Mb,Rd -
1		10	764510	-764510
1		252	764510	-764510
3		0	764510	-764510
3		248	764510	-764510

Trave di fondazione in corrispondenza della Scala esterna in acciaio: fili 1-30

Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C25/30 Rck 300

Elenco delle sezioni

N°	Descrizione	Tipo	Spessore anima	Altezza	Sp. ala sup.	Sp. ala inf.	Largh. ala sx	Largh. ala dx	C. sup.	C. inf.	C. lat
1	TR (20+20+40)x75	a T rovescio	40	75		30	20	20	3.5	3.5	3.5

Output campate

Campata 1 tra i fili 1 - 30, sezione TR (20+20+40)x75, asta 29

Verifiche a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	M-ela	Comb.	M-des	M-ult	x/d	Verifica
0	9.36	5.2	9.24	5						-1922	SLU 20	-240	-2442175	0.084	Si
15	9.36	5.2	9.24	5	1815	SLU 14	7093	2418095	0.086						Si
65	9.36	5.2	9.24	5	7051	SLU 14	7093	2418095	0.086						Si
129	9.36	5.2	9.24	5	3811	SLU 14	7093	2418095	0.086	1137	SLU 7	0	-2442175	0.084	Si
194	0	0	0	0	0	SLV FO 7	4979	0	0	0	SLV FO 9	0	0	0	Si

Verifiche a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	Verifica
0	0.067	9.36	0	290	SLU 14	290	10435	61129	41186	41186	2.5	Si
15	0.067	9.24	0	211	SLU 14	211	10403	61306	41305	41305	2.5	Si
65	0.067	9.24	0	16	SLU 20	16	10403	61306	41305	41305	2.5	Si
129	0.068	0	0	-86	SLU 14	-86	-9296	-61306	-41758	-41758	2.5	Si
194	0.068	0	0	0	SLV FO 7	0	9784	65684	44741	44741	2.5	Si
194	0.068	0	0	0	SLV FO 9	0	-9784	-65684	-44741	-44741	2.5	Si

Verifiche delle tensioni in esercizio

x	Rara						Quasi permanente				Verifica
	Mela	Comb.	Mdes	σ c	σ f	Mela	Comb.	Mdes	σ c		
0	-1372	5	-137	0	0.2	-894	2	-42	0	Si	
15	1254	4	4986	0.2	8.4	686	2	2970	0.1	Si	
65	4954	4	4986	0.2	8.4	2946	2	2970	0.1	Si	
129	2683	4	4986	0.2	8.4	1614	2	2970	0.1	Si	
194	0	1	3504	0.1	0	0	1	2104	0	Si	

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Funzionamento trasversale della suola di fondazione

Campata 1 tra i fili 1 - 30, sezione TR (20+20+40)x75, asta 29

Verifiche di resistenza della suola di fondazione

x	d	Af	M	Comb	x/d	Mult	V	Comb	Vult	Verifica
0	26	0.03	32	SLU 20	0.045	3361	3	SLU 20	117	Si
15	26	0.03	33	SLU 20	0.045	3361	3	SLU 20	117	Si
65	26	0.03	38	SLU 20	0.045	3361	4	SLU 20	117	Si
129	26	0.03	45	SLU 14	0.045	3398	5	SLU 14	117	Si
194	26	0.03	53	SLU 14	0.045	3398	5	SLU 14	117	Si

Verifiche delle tensioni di esercizio

x	d	Af	Rara						Quasi permanente				Verifica
			M	Comb	σ c	σ c limite	σ f	σ f limite	M	Comb	σ c	σ c limite	
0	26	0.0335	17	SLE RA 5	0.1	149.4	1.7	3600	14	SLE QP 2	0.1	112.1	Si
15	26	0.0335	18	SLE RA 5	0.1	149.4	1.8	3600	15	SLE QP 2	0.1	112.1	Si
65	26	0.0335	20	SLE RA 5	0.1	149.4	2	3600	17	SLE QP 2	0.1	112.1	Si
129	26	0.0339	24	SLE RA 5	0.2	149.4	2.4	3600	20	SLE QP 2	0.1	112.1	Si
194	26	0.0339	27	SLE RA 5	0.2	149.4	2.7	3600	23	SLE QP 2	0.2	112.1	Si

Verifiche di apertura delle fessure

La campata non presenta apertura delle fessure nella suola

Verifiche geotecniche

Verifiche geotecniche di capacità portante sul piano di posa

Aste	Size X	Size Y	Comb	Type	Cond	γR	Rd	Ed	Rd/Ed	Verifica
29	209	80	SLU 20	ST	LT	2.3	63834	-4771	13.38	Si
29	209	80	SLV FO 13	SIS	LT	2.3	20099	-2607	7.71	Si

Verifiche geotecniche di capacità portante - parametri utilizzati nel calcolo di Rd

Fx	Fy	Fz	Mx	My	Inc.x	Inc.y	Ecc.x	Ecc.y	B'	L'	qd	ys	Fi	Coes	Amax
2	-5	-4771	-4166	26082	0	0	5	-1	78	198	0.15	0	33	0.02	0
188	-691	-2607	36025	21759	4	-15	8	14	52	192	0.15	0	33	0.02	0.08

Verifiche geotecniche di capacità portante - fattori utilizzati nel calcolo di Rd

N			S			D			I			B			G			P			E			
Nq	Nc	Ng	Sq	Sc	Sg	Dq	Dc	Dg	Iq	Ic	Ig	Bq	Bc	Bg	Gq	Gc	Gg	Pq	Pc	Pg	Eq	Ec	Eg	
25	37	33	1.25	1.26	0.84	1.26	1.38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	37	33	1.17	1.18	0.89	1.26	1.38	1	0.6	0.59	0.45	1	1	1	1	1	1	1	1	1	1	0.95	0.97	0.95

Verifiche geotecniche - Cedimenti assoluti e differenziali

Tipo	Assoluto			Differenziale						Relativo			Rapp. inflessione			Verifica	
	Sa adm	Sa	Nodo	Comb.	Sd adm	Sd	Nodo I	Nodo J	Comb.	Sr adm	Sr	Nodo	Comb.	RI adm	RI		Comb.
E	5	1.9	80	SLE RA 5	5	0.7	80	35	SLE RA 5	5	0	35	SLE RA 1	0.0033	0	SLE RA 1	Si
D	5	0	35	SLE RA 1	5	0	35	35	SLE RA 1	5	0	35	SLE RA 1	0.0033	0	SLE RA 1	Si
Z	5	0	35	SLE RA 1	5	0	35	35	SLE RA 1	5	0	35	SLE RA 1	0.0033	0	SLE RA 1	Si

Verifiche geotecniche - Rotazioni assolute e differenziali

Tipo	Rotazione rigida			Rotazione assoluta				Distorsione angolare positiva				Distorsione angolare negativa				Verifica	
	RR adm	RR	Comb.	R Adm	R Max	Nodo I	Nodo J	Comb.	D+ adm	D+	Nodo	Comb.	D- adm	D-	Nodo		Comb.
E	0.2	0.2	SLE RA 5	0.2	0.2	35	80	SLE RA 5	0.2	0	35	SLE RA 1	0.1	0	35	SLE RA 1	No
D	0.2	0	SLE RA 1	0.2	0	35	80	SLE RA 1	0.2	0	35	SLE RA 1	0.1	0	35	SLE RA 1	Si
Z	0.2	0	SLE RA 1	0.2	0	35	80	SLE RA 1	0.2	0	35	SLE RA 1	0.1	0	35	SLE RA 1	Si

Tensioni sul terreno campata 1

x	σ min.	Comb.	σ lim.	γ R	Coeff. sic.
0	0.257	SLU 20	6	2.3	10.16
6	0.265	SLU 20	6	2.3	9.85
13	0.29	SLU 20	6	2.3	9
15	0.324	SLU 14	6	2.3	8.04
19	0.361	SLU 14	6	2.3	7.22

5.2 Verifiche piastre e pareti C.A.

nod.: nodo del modello FEM

sez.: tipo di sezione (o = orizzontale, v = verticale)

B: base della sezione

H: altezza della sezione

Af+: area di acciaio dal lato B (inferiore per le piastre)

Af-: area di acciaio dal lato A (superiore per le piastre)

c+: copriferro dal lato B (inferiore per le piastre)

c-: copriferro dal lato A (superiore per le piastre)

sc: tensione sul calcestruzzo in esercizio

comb ; c: combinazione di carico

c.s.: coefficiente di sicurezza

N: sforzo normale di calcolo

M: momento flettente di calcolo

Mu: momento flettente ultimo

Nu: sforzo normale ultimo

sf: tensione sull'acciaio in esercizio

Wk: apertura caratteristica delle fessure

Sm: distanza media fra le fessure

st: sigma a trazione nel calcestruzzo in condizioni non fessurate

fck: resistenza caratteristica cilindrica del calcestruzzo

gcd: resistenza a compressione di calcolo del calcestruzzo

fctd: resistenza a trazione di calcolo del calcestruzzo

Hcr: altezza critica

q.Hcr: *quota della sezione alla altezza critica

hw: altezza della parete

lw: lunghezza della parete

n.p.: numero di piani

hs: altezza dell'interpiano

Mxd: momento di progetto attorno all'asse x (fuori piano)

Myd: momento di progetto attorno all'asse y (nel piano)

NEd: sforzo normale di progetto

MEd: Momento flettente di progetto di progetto

VEd: sforzo di taglio di progetto

Ngrav.: sforzo normale dovuto ai carichi gravitazionali

NReale.: sforzo normale derivante dall'analisi

VRcd: resistenza a taglio dovuta alle bielle di calcestruzzo

epsilon: coefficiente di maggiorazione del taglio derivante dall'analisi

alfaS: $MEd/(VEd*lw)$ formula 7.4.15

At: area tesa di acciaio

roh: rapporto tra area della sezione orizzontale dell'armatura di anima e l'area della sezione di calcestruzzo

rov: rapporto tra area della sezione verticale dell'armatura di anima e l'area della sezione di calcestruzzo

VRsd: resistenza a taglio della sezione con armature

Somma(Asj)- Ai: somma delle aree delle barre verticali che attraversano la superficie di scorrimento

csi: altezza della parte compressa normalizzata all'altezza della sezione

Vdd: contributo dell'effetto spinotto delle armature verticali

Vfd: contributo della resistenza per attrito

Vid: contributo delle armature inclinate presenti alla base

VRd,s: valore di progetto della resistenza a taglio nei confronti dello scorrimento

M01: momento flettente inferiore per verifica instabilità

M02: momento flettente superiore per verifica instabilità

etot: eccentricità complessiva EC2 12.6.5.2 (12.12)

Fi: coefficiente riduttivo EC2 12.6.5.2 (12.11)

l0: lunghezza libera di inflessione

beta: coefficiente EC2 12.6.5.1 (12.9)

Nrd: resistenza di progetto EC2 12.6.5.2 (12.10)

l,lim: snellezza limite EC2 12.6.5.1 (4)

At: area di calcestruzzo del traverso in parete con blocco cassero in legno

Vr,cls: resistenza a taglio in assenza di armatura orizzontale in parete con blocco cassero in legno

Mu: momento resistente ultimo del singolo traverso in parete con blocco cassero in legno

Hp: resistenza a trazione dell'elemento teso in parete con blocco cassero in legno

R: fattore di efficienza in parete con blocco cassero in legno

Vr,s: contributo alla resistenza a taglio della armatura orizzontale in parete con blocco cassero in legno

Vrd: resistenza a taglio per trazione del diagonale in parete con blocco cassero in legno

l: luce netta della trave di collegamento

h: altezza della trave di collegamento

b: spessore della trave di collegamento

d: altezza utile della trave di collegamento

Asi: area complessiva della armatura a X

M,plast: momenti resistenti della trave a filo appoggio

T,plast: sforzi di taglio nella trave derivanti da gerarchia delle resistenze

N: fattore di capacità portante, distinto nei 3 tipi (c, q, g)

S: fattore correttivo per la forma della fondazione, distinto nei 3 tipi (c, q, g)

D: fattore correttivo per la profondità del piano di posa, distinto nei 3 tipi (c, q, g)

I: fattore correttivo per l'inclinazione del carico, distinto nei 3 tipi (c, q, g)

B: fattore correttivo per l'inclinazione del piano di posa, distinto nei 3 tipi (c, q, g)

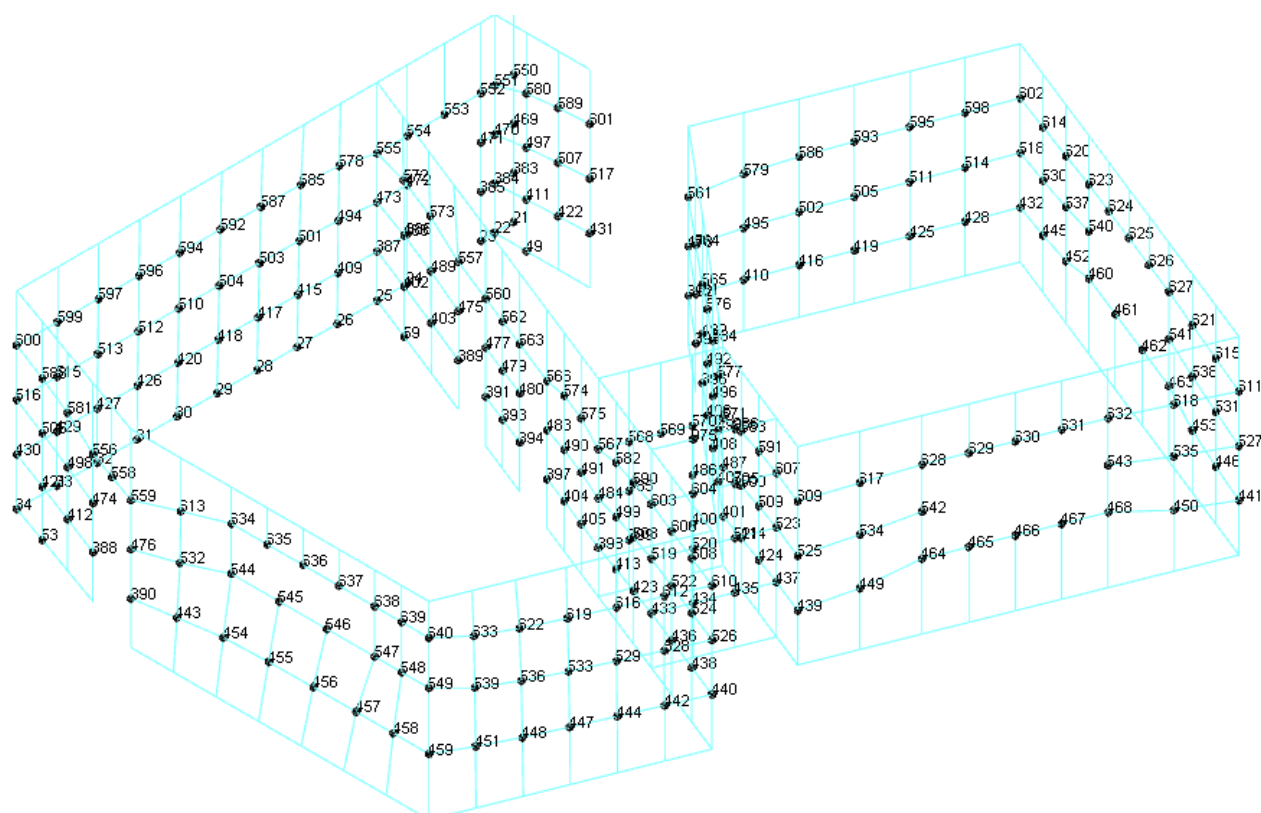
G: fattore correttivo per l'inclinazione del pendio, distinto nei 3 tipi (c, q, g)

P: fattore correttivo per punzonamento del suolo, distinto nei 3 tipi (c, q, g)

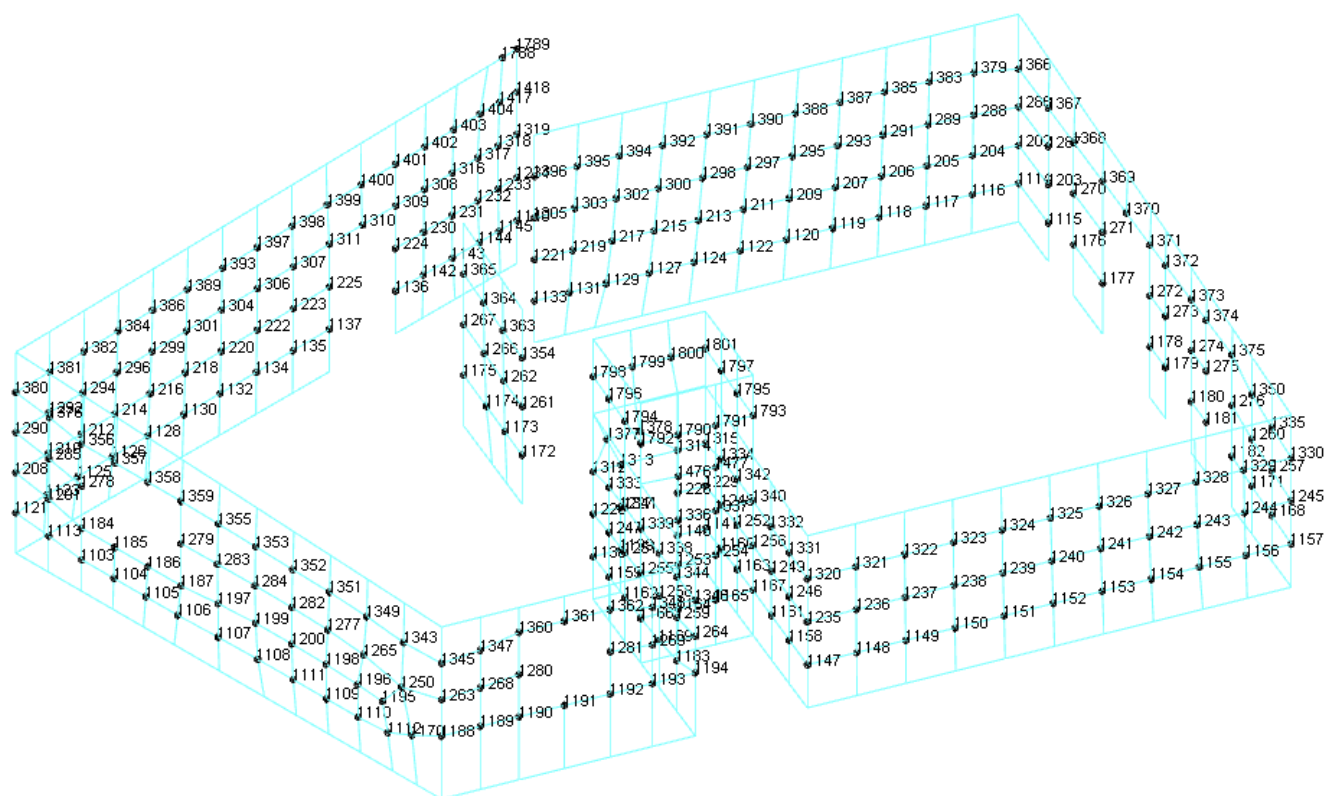
E: fattore correttivo per l'inerzia sismica del suolo, distinto nei 3 tipi (c, q, g)

Tipo: tipologia del fattore di portanza, per coesione (c), sovraccarico (q) o attrito (g)

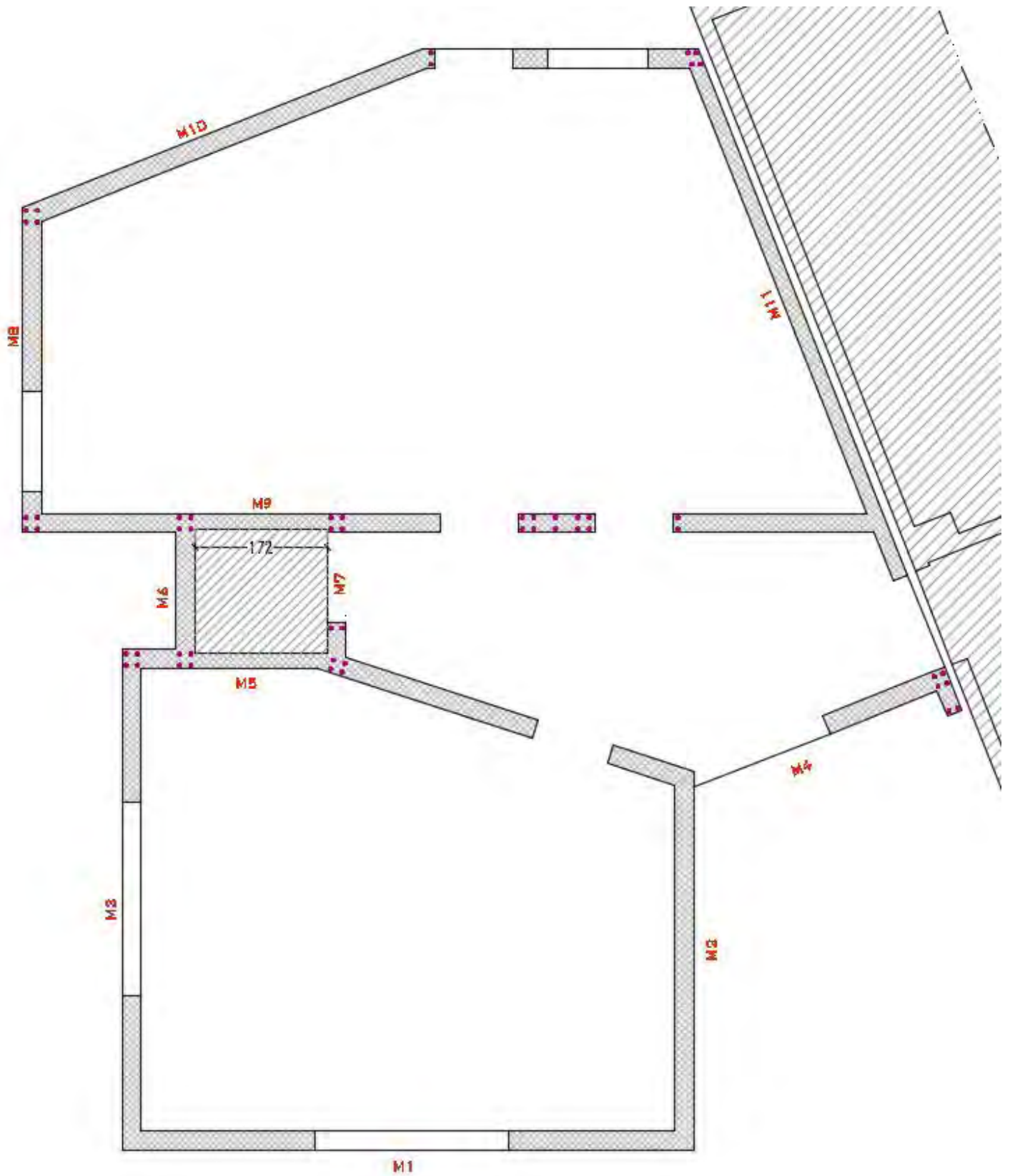
PARETI IN C.A.



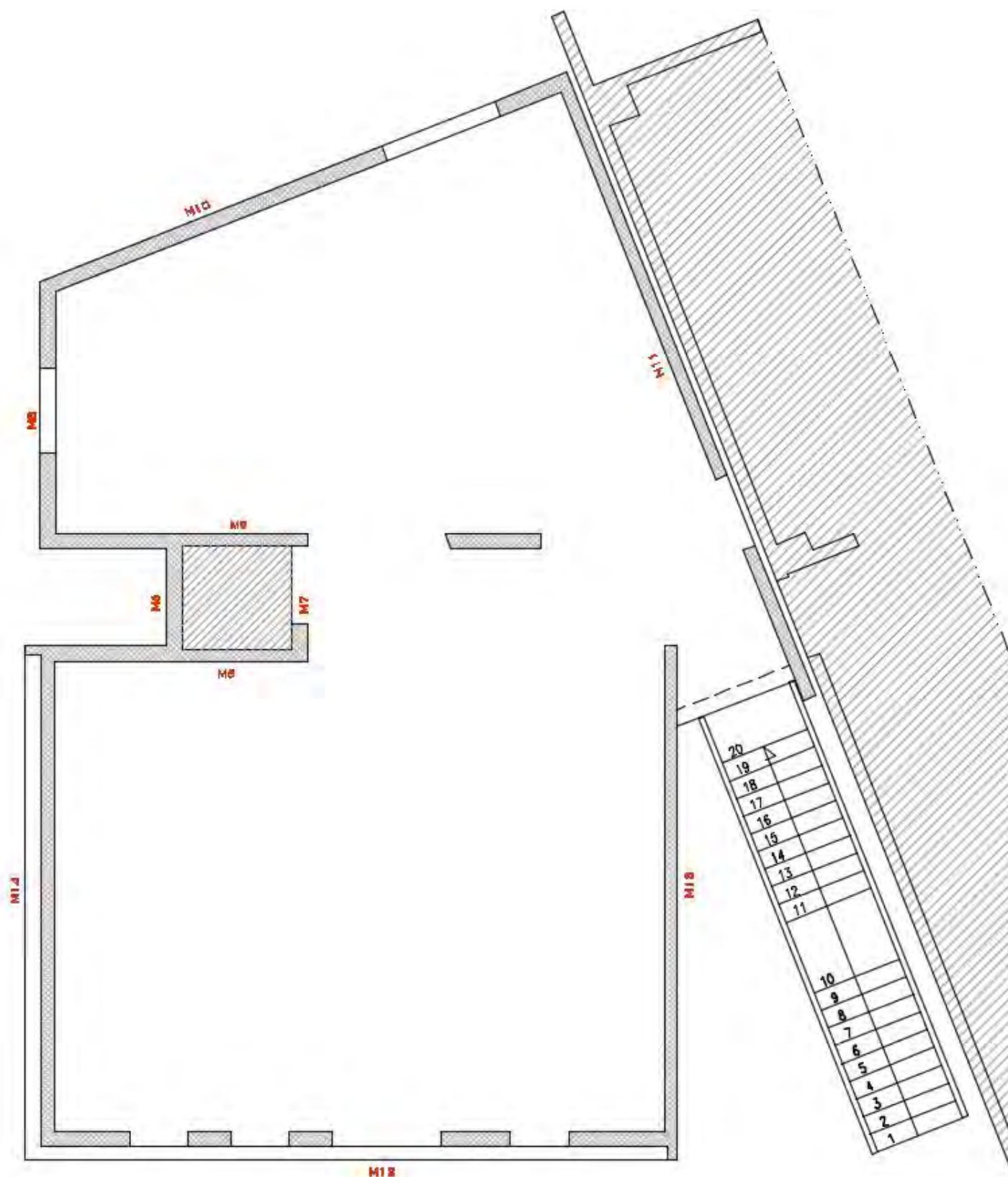
Pareti piano terra: indici nodi



Pareti piano primo: indici nodi



PIANTA MURATURE PIANO TERRA



PIANTA MURATURE PIANO PRIMO

Parete M11

Parete fra le coordinate in pianta (1027;907) (2071;907)

da quota -45 a quota 709

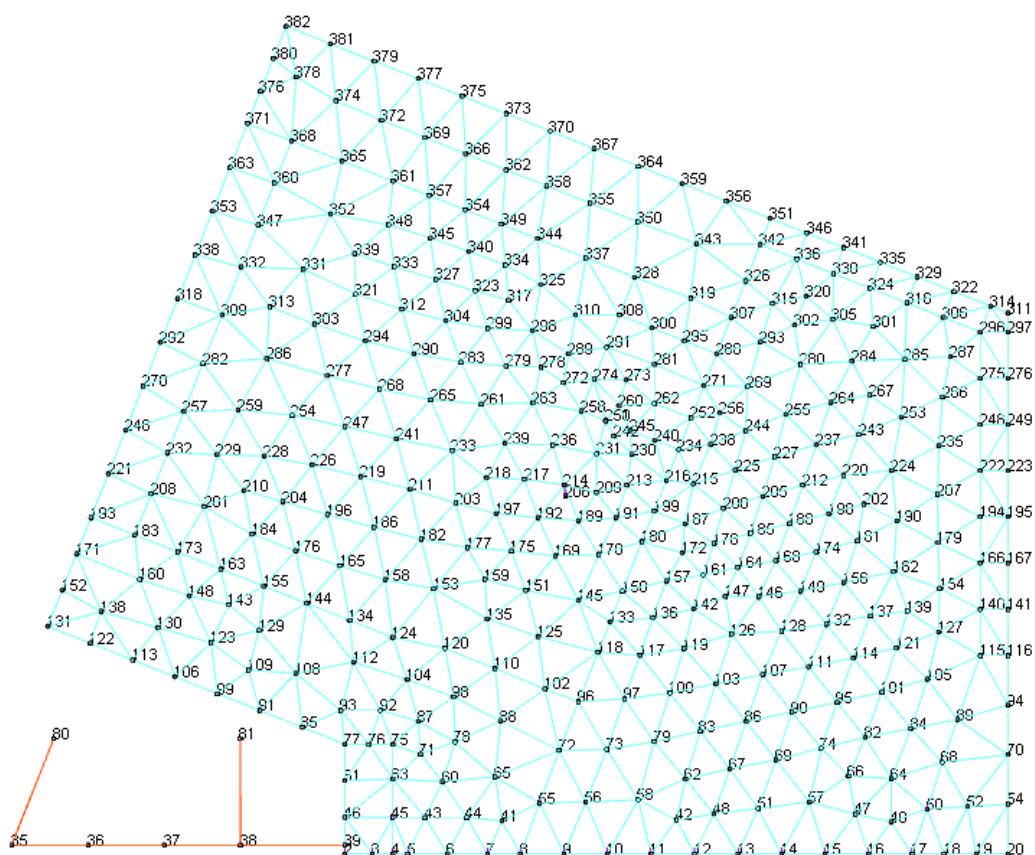
Valori in daN, cm

C28/35: roc 350

PIASTRE IN C.A.

Platea a "Fondazione"

Valori in daN, cm
C25/30: rck 300
fyk 4500



Platea: indici nodi

Verifica di stato limite ultimo

nod	sez	B	H	Af+	Af-	c+	c-	c.s.	comb	N	M	Nu	Mu
63	o	100	45	5.7	5.7	3.8	3.8	1.599	7 SLV F.	0	565100	0	903531
	v	100	45	5.7	5.7	2.6	2.6	1.030	1 SLV F.	0	895351	0	922215
131	o	50	45	2.3	2.3	3.8	3.8	19.413	7 SLV F.	0	-18774	0	-364466

Combinazione rara

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wlim	st	Sm(mm)	c
63	o	100	45	5.7	5.7	3.8	3.8	-21.3	3 ra	0.00E00	3.29E05	1505.4	3 ra	0.00E00	3.29E05	0.00999	0.00	9.4	0.0	1 ra
	v	100	45	5.7	5.7	2.6	2.6	-38.1	3 ra	0.00E00	6.31E05	2791.6	3 ra	0.00E00	6.31E05	0.00999	0.00	18.0	0.0	1 ra
131	o	50	45	2.3	2.3	3.8	3.8	-0.4	5 ra	0.00E00	-3.01E03	34.2	5 ra	0.00E00	-3.01E03	0.00999	0.00	0.2	0.0	5 ra

Combinazione frequente

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wklim	st	Sm(mm)	c
63	o	100	45	5.7	5.7	3.8	3.8	-20.1	4 fr	0.00E00	3.10E05	1419.4	4 fr	0.00E00	3.10E05	0.00	0.40	8.9	0.0	1 fr
	v	100	45	5.7	5.7	2.6	2.6	-36.1	4 fr	0.00E00	5.98E05	2644.8	4 fr	0.00E00	5.98E05	0.00	0.40	17.1	0.0	1 fr
131	o	50	45	2.3	2.3	3.8	3.8	-0.4	4 fr	0.00E00	-2.85E03	32.5	4 fr	0.00E00	-2.85E03	0.00	0.40	0.2	0.0	4 fr

Combinazione quasi permanente

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wklim	st	Sm(mm)	c
63	o	100	45	5.7	5.7	3.8	3.8	-19.8	2 q.	0.00E00	3.07E05	1403.3	2 q.	0.00E00	3.07E05	0.00	0.30	8.8	0.0	1 q.
	v	100	45	5.7	5.7	2.6	2.6	-35.6	2 q.	0.00E00	5.90E05	2609.7	2 q.	0.00E00	5.90E05	0.00	0.30	16.8	0.0	1 q.
131	o	50	45	2.3	2.3	3.8	3.8	-0.4	2 q.	0.00E00	-2.81E03	32.0	2 q.	0.00E00	-2.81E03	0.00	0.30	0.2	0.0	2 q.

Verifiche geotecniche

Dati geometrici dell'impronta di calcolo

Forma dell'impronta di calcolo: rettangolare di area equivalente

Area di ingombro esterno minore: 2099558

Angolo di rotazione corrispondente all'ingombro minore (deg): -21.66

Rapporto di forma trovato (area ingombro esterno/area fondazione): 1.28

Coordinata X del centro impronta: 1417

Coordinata Y del centro impronta: 1406

Coordinata Z del centro impronta: -45

Lato minore B dell'impronta: 1120

Lato maggiore L dell'impronta: 1463

Area dell'impronta rettangolare di calcolo: 1638628

Verifica di scorrimento sul piano di posa - Combinazioni non sismiche

Combinazione con fattore di sicurezza minore: SLU 2
 Verifica condotta in condizioni drenate (a lungo termine)
 Forza risultante agente in direzione x: -39.95
 Forza risultante agente in direzione y: 4.81
 Forza risultante agente in direzione z: -806971.34
 Inclinazione del carico in direzione x (deg): 0
 Inclinazione del carico in direzione y (deg): 0
 Angolo di attrito di progetto (deg): 21
 Azione di progetto (risultante del carico tangenziale al piano di posa): 40.24
 Resistenza di progetto: 281606.61
 Coefficiente parziale applicato alla resistenza: 1.1
 Coefficiente di sicurezza normalizzato ks min (Rd/Ed): 6998

Verifica di scorrimento sul piano di posa - Combinazioni sismiche

Combinazione con fattore di sicurezza minore: SLV fondazioni 15
 Verifica condotta in condizioni drenate (a lungo termine)
 Forza risultante agente in direzione x: 240087.67
 Forza risultante agente in direzione y: 183925.29
 Forza risultante agente in direzione z: -841127.57
 Inclinazione del carico in direzione x (deg): 15.93
 Inclinazione del carico in direzione y (deg): 12.33
 Angolo di attrito di progetto (deg): 21
 Azione di progetto (risultante del carico tangenziale al piano di posa): 302441.07
 Resistenza di progetto: 293526.02
 Coefficiente parziale applicato alla resistenza: 1.1
 Coefficiente di sicurezza normalizzato ks min (Rd/Ed): 0.97***

Verifica di capacità portante sul piano di posa - Combinazioni non sismiche

Combinazione con fattore di sicurezza minore: SLU 20
 Verifica condotta in condizioni drenate (a lungo termine)
 Azione di progetto (risultante del carico normale al piano di posa): -1171895.98
 Resistenza di progetto: 15815729.99
 Coefficiente parziale applicato alla resistenza: 2.3
 Coefficiente di sicurezza normalizzato kp min (Rd/Ed): 13.5

Parametri utilizzati nel calcolo:

Forza risultante agente in direzione x: -47.12
 Forza risultante agente in direzione y: 8.55
 Forza risultante agente in direzione z: -1171895.98
 Momento agente in direzione x: -77595741.61
 Momento agente in direzione y: -149721843.81
 Inclinazione del carico in direzione x (deg): 0
 Inclinazione del carico in direzione y (deg): 0
 Eccentricità del carico in direzione x: -127.76
 Eccentricità del carico in direzione y: -66.21
 Impronta al suolo (BxL): 1463 x 1120
 Larghezza efficace (B'=B-2*e): 987.55
 Lunghezza efficace (L'=L-2*e): 1207.57
 Coesione di progetto: .04
 Peso specifico di progetto del suolo : 0.0021
 Angolo di attrito di progetto (deg): 33.9

Fattori di capacità portante

N	S	D	I	B	G	P	E	Tipo
41.67	1.57	1.00	1.00	1.00	1.00	1.00	1.00	Coesione
28.97	1.55	1.00	1.00	1.00	1.00	1.00	1.00	Sovraccarico
40.23	0.67	1.00	1.00	1.00	1.00	1.00	1.00	Attrito

Verifica di capacità portante sul piano di posa - Combinazioni sismiche

Combinazione con fattore di sicurezza minore: SLV fondazioni 7
 Verifica condotta in condizioni drenate (a lungo termine)
 Azione di progetto (risultante del carico normale al piano di posa): -842336.4
 Resistenza di progetto: 2172401.72
 Coefficiente parziale applicato alla resistenza: 2.3
 Coefficiente di sicurezza normalizzato kp min (Rd/Ed): 2.58

Parametri utilizzati nel calcolo:

Forza risultante agente in direzione x: -182753.3
 Forza risultante agente in direzione y: 239241.89
 Forza risultante agente in direzione z: -842336.4
 Momento agente in direzione x: -194210702.93
 Momento agente in direzione y: -202901743.12
 Inclinazione del carico in direzione x (deg): -12.24
 Inclinazione del carico in direzione y (deg): 15.86
 Eccentricità del carico in direzione x: -240.88
 Eccentricità del carico in direzione y: -230.56
 Impronta al suolo (BxL): 1463 x 1120
 Larghezza efficace (B'=B-2*e): 658.86
 Lunghezza efficace (L'=L-2*e): 981.33
 Coesione di progetto: .04
 Peso specifico di progetto del suolo : 0.0021
 Angolo di attrito di progetto (deg): 33.9
 Accelerazione normalizzata massima al suolo: .08

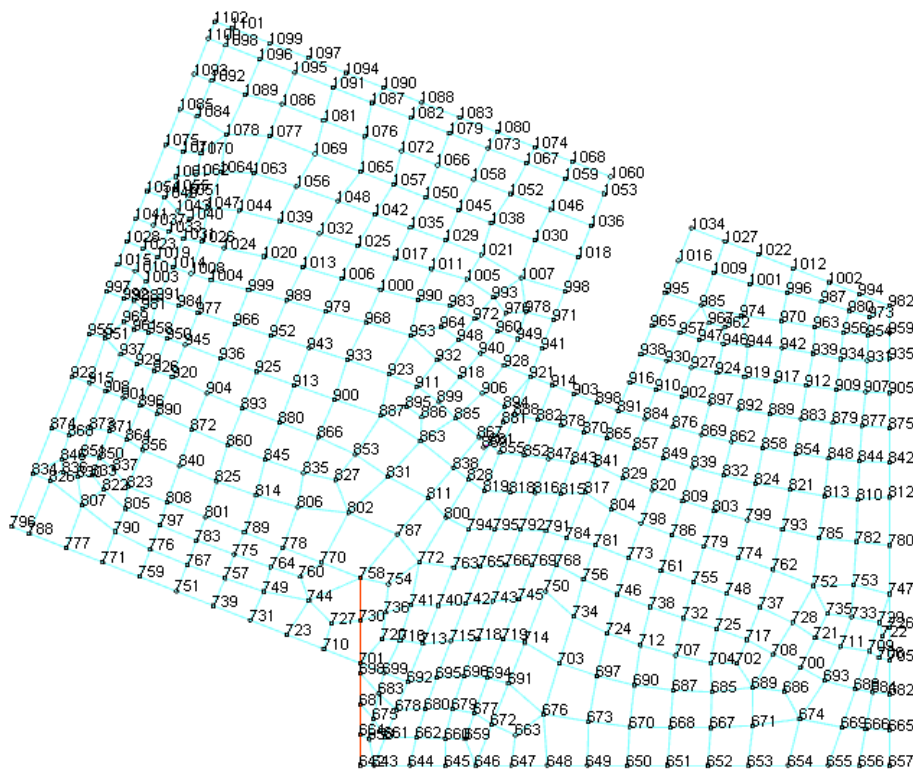
Fattori di capacità portante

N	S	D	I	B	G	P	E	Tipo
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41.67	1.47	1.00	0.50	1.00	1.00	1.00	1.00	0.97	Coesione
28.97	1.45	1.00	0.52	1.00	1.00	1.00	1.00	0.96	Sovraccarico
40.23	0.73	1.00	0.34	1.00	1.00	1.00	1.00	0.96	Attrito

Soletta a "Piano 1"

Valori in daN, cm
C28/35: rck 350
fyk 4500



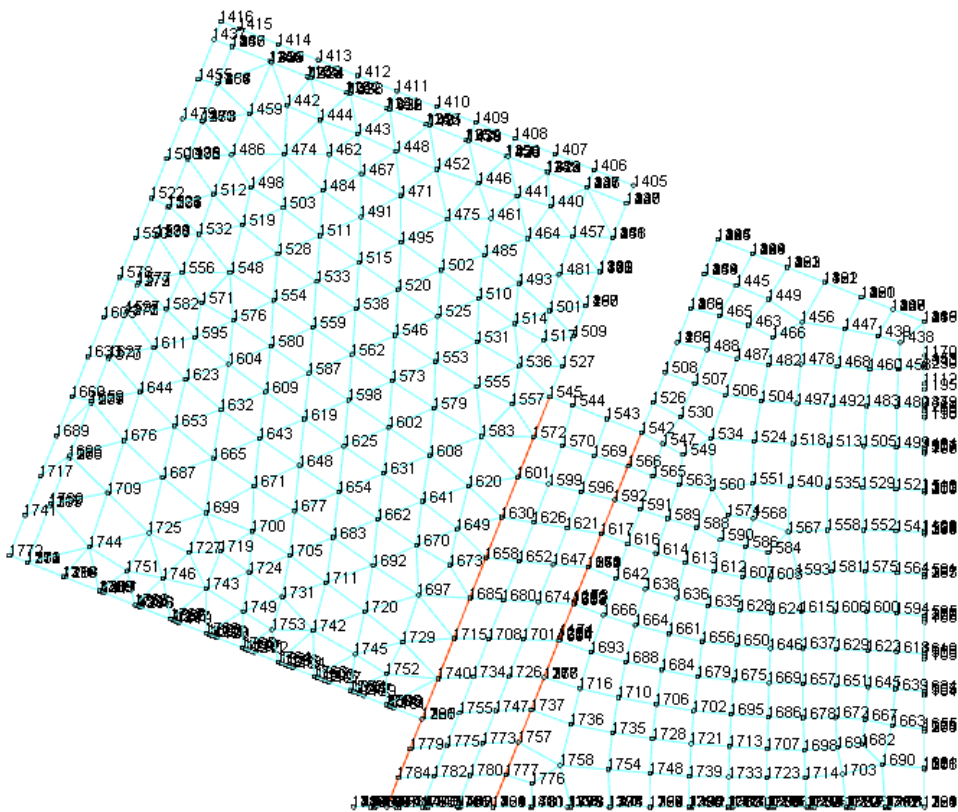
Soletta primo piano: indici nodi

Verifica di stato limite ultimo

nod	sez	B	H	Af+	Af-	c+	c-	c.s.	comb	N	M	Nu	Mu	
v	50	24	3.1	3.1	2.7	2.7	8.785	20	SLU	0	28454	0	249976	
812	o	50	24	4.6	4.6	4.1	4.1	3.375	20	SLU	0	-102719	0	-346719
v	50	24	3.1	3.1	2.7	2.7	0.994	20	SLU	0	-251377	0	-269976	
823	o	100	24	7.7	12.3	4.1	5.2	0.842	18	SLU	0	-998793	0	-1040717
v	100	24	7.7	10.8	2.7	3.5	0.648	18	SLU	0	-1250377	0	-1329751	
856	o	100	24	7.7	12.3	4.1	5.2	4.287	7	SLV	0	-196109	0	-840717
v	100	24	7.7	12.3	2.7	3.8	0.976	18	SLU	0	-927478	0	-955657	
874	o	50	24	4.6	6.2	4.1	4.8	0.891	5	SLV	0	399220	0	455829
v	50	24	3.1	3.1	2.7	2.7	3.035	5	SLV	0	-82352	0	-249976	
891	o	100	24	7.7	7.7	4.1	4.1	4.024	7	SLV	0	-147005	0	-591610
v	100	24	7.7	7.7	2.7	2.7	0.974	20	SLU	0	-632323	0	-685711	
1024	o	100	24	7.7	12.2	4.1	5.1	6.092	11	SLV	0	-136691	0	-832736
v	100	24	7.7	10.8	2.7	3.5	0.953	20	SLU	0	-849897	0	-909751	
1044	o	100	24	7.7	11.6	4.1	5.0	6.762	20	SLU	0	-118649	0	-802322
v	100	24	7.7	10.8	2.7	3.5	0.921	18	SLU	0	-879405	0	-929751	
1063	o	100	24	7.7	11.0	4.1	4.9	5.089	18	SLU	0	-151423	0	-770571
v	100	24	7.7	10.8	2.7	3.5	0.895	18	SLU	0	-905073	0	-1009751	
1069	o	100	24	7.7	12.3	4.1	5.2	1.047	18	SLU	0	-803317	0	-840717
v	100	24	7.7	10.8	2.7	3.5	6.999	20	SLU	0	-115696	0	-809751	
1077	o	100	24	7.7	10.8	4.1	4.9	0.687	18	SLU	0	-1103672	0	-1378613
v	100	24	7.7	10.8	2.7	3.5	0.694	18	SLU	0	-1167330	0	-1289751	
1095	o	100	24	7.7	10.1	4.1	4.8	1.101	18	SLU	0	555291	0	611147
v	85	24	6.2	9.2	2.7	3.6	4.811	11	SLV	0	-143203	0	-688902	

Combinazione rara

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wlim	st	Sm(mm)	c			
v	50	24	3.1	3.1	2.7	2.7	-7.4	5	ra	0.00E00	2.13E04	355.8	5	ra	0.00E00	2.13E04	0.00999	0.0	4.2	0.0	1	ra	
812	o	50	24	4.6	4.6	4.1	4.1	-25.7	5	ra	0.00E00	-7.57E04	927.1	5	ra	0.00E00	-7.57E04	0.00999	0.0	14.8	0.0	5	ra
v	50	24	3.1	3.1	2.7	2.7	-64.2	5	ra	0.00E00	-1.85E05	3090.4	5	ra	0.00E00	-1.85E05	0.00999	0.0	36.5	0.0	5	ra	
823	o	100	24	7.7	12.3	4.1	5.2	-75.2	3	ra	0.00E00	-7.51E05	2973.8	3	ra	0.00E00	-7.51E05	0.32999	0.0	214.0	0.0	3	ra
v	100	24	7.7	10.8	2.7	3.5	-76.3	3	ra	0.00E00	-9.41E05	2998.8	3	ra	0.00E00	-9.41E05	0.46999	0.0	235.5	0.0	3	ra	
856	o	100	24	7.7	12.3	4.1	5.2	-23.0	3	ra	0.00E00	-1.38E05	728.6	3	ra	0.00E00	-1.38E05	0.00999	0.0	13.5	0.0	3	ra
v	100	24	7.7	12.3	2.7	3.8	-98.2	3	ra	0.00E00	-6.97E05	3362.2	3	ra	0.00E00	-6.97E05	0.17999	0.0	140.7	0.0	3	ra	
874	o	50	24	4.6	6.2	4.1	4.8	-70.0	3	ra	0.00E00	2.05E05	2492.4	3	ra	0.00E00	2.05E05	0.18999	0.0	226.0	0.0	3	ra
v	50	24	3.1	3.1	2.7	2.7	-17.6	3	ra	0.00E00	-5.06E04	844.9	3	ra	0.00E00	-5.06E04	0.00999	0.0	10.0	0.0	3	ra	
891	o	100	24	7.7	7.7	4.1	4.1	-14.6	5	ra	0.00E00	-7.89E04	574.1	5	ra	0.00E00	-7.89E04	0.00999	0.0	7.8	0.0	5	ra
v	100	24	7.7	7.7	2.7	2.7	-72.4	5	ra	0.00E00	-4.66E05	3133.0	5	ra	0.00E00	-4.66E05	0.28999	0.0	298.4	0.0	5	ra	

**Soletta di copertura: indici nodi**

Combinazione rara

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wlim	st	Sm(mm)	c		
1527	v	50	28	4.6	4.6	2.7	2.7	-10.1	3	ra	0.00E00	-4.70E04	441.5	3	ra	0.00E00	-4.70E04	0.00999	6.6	0.0	3	ra
	o	50	28	4.6	6.2	4.1	4.1	-57.3	3	ra	0.00E00	-2.58E05	1969.0	3	ra	0.00E00	-2.58E05	0.00999	36.7	0.0	3	ra
	v	50	28	3.1	6.2	2.7	2.7	-100.0	3	ra	0.00E00	-5.95E05	3247.4	3	ra	0.00E00	-5.95E05	0.36999	0.0	222.3	3	ra
1545	o	100	20	7.7	10.8	4.1	4.1	-104.8	3	ra	0.00E00	-8.23E05	3113.3	3	ra	0.00E00	-8.23E05	0.28999	0.0	120.7	3	ra
	v	50	20	3.1	6.3	2.7	2.7	-105.5	3	ra	0.00E00	-5.78E05	3016.9	3	ra	0.00E00	-5.78E05	0.45999	0.0	180.5	3	ra
	v	50	20	3.1	3.1	4.1	4.1	-34.0	3	ra	0.00E00	-5.68E04	1289.5	3	ra	0.00E00	-5.68E04	0.00999	16.4	0.0	3	ra
1561	v	50	20	3.1	3.1	2.7	2.7	-63.6	3	ra	0.00E00	-1.30E05	2707.5	3	ra	0.00E00	-1.30E05	0.00999	36.8	0.0	3	ra
	o	100	20	7.7	10.8	4.1	4.1	-16.5	3	ra	0.00E00	-6.97E04	497.6	2	ra	0.00E00	5.39E04	0.00999	9.9	0.0	3	ra
	v	100	20	7.7	15.4	2.7	2.7	-99.0	3	ra	0.00E00	-5.80E05	2502.6	3	ra	0.00E00	-5.80E05	0.16999	0.0	170.4	3	ra
1694	o	100	20	7.7	12.3	4.1	4.1	-13.4	2	ra	0.00E00	-5.93E04	350.2	2	ra	0.00E00	-5.93E04	0.00999	8.3	0.0	2	ra
	v	100	20	7.7	15.4	2.7	2.7	-57.4	3	ra	0.00E00	-3.36E05	1451.2	3	ra	0.00E00	-3.36E05	0.07999	0.0	160.5	3	ra

Combinazione frequente

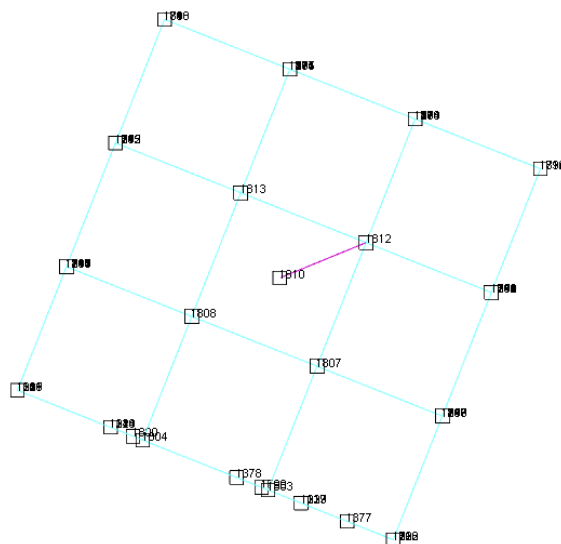
nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wklim	st	Sm(mm)	c			
1527	v	50	28	4.6	4.6	2.7	2.7	-9.4	3	fr	0.00E00	-4.39E04	412.9	3	fr	0.00E00	-4.39E04	0.00	0.40	6.2	0.0	3	fr
	o	50	28	4.6	6.2	4.1	4.1	-53.5	3	fr	0.00E00	-2.41E05	1840.8	3	fr	0.00E00	-2.41E05	0.00	0.40	34.3	0.0	3	fr
	v	50	28	3.1	6.2	2.7	2.7	-112.2	3	fr	0.00E00	-5.56E05	3969.0	3	fr	0.00E00	-5.56E05	0.33	0.40	0.0	222.3	3	fr
1545	o	100	20	7.7	10.8	4.1	4.1	-102.2	3	fr	0.00E00	-7.69E05	3155.0	3	fr	0.00E00	-7.69E05	0.26	0.40	0.0	120.7	3	fr
	v	50	20	3.1	6.3	2.7	2.7	-101.3	3	fr	0.00E00	-5.40E05	3220.3	3	fr	0.00E00	-5.40E05	0.42	0.40	0.0	180.5	3	fr
	v	50	20	3.1	3.1	4.1	4.1	-31.3	3	fr	0.00E00	-5.24E04	1189.1	3	fr	0.00E00	-5.24E04	0.00	0.40	15.1	0.0	3	fr
1561	v	50	20	3.1	3.1	2.7	2.7	-58.5	3	fr	0.00E00	-1.20E05	2492.9	3	fr	0.00E00	-1.20E05	0.00	0.40	33.9	0.0	3	fr
	o	100	20	7.7	10.8	4.1	4.1	-15.4	3	fr	0.00E00	-6.52E04	460.7	2	fr	0.00E00	4.99E04	0.00	0.40	9.2	0.0	3	fr
	v	100	20	7.7	15.4	2.7	2.7	-92.4	3	fr	0.00E00	-5.42E05	2336.4	3	fr	0.00E00	-5.42E05	0.15	0.40	0.0	170.4	3	fr
1694	o	100	20	7.7	12.3	4.1	4.1	-12.4	2	fr	0.00E00	-5.51E04	325.3	2	fr	0.00E00	-5.51E04	0.00	0.40	7.7	0.0	2	fr
	v	100	20	7.7	15.4	2.7	2.7	-53.1	3	fr	0.00E00	-3.11E05	1343.4	3	fr	0.00E00	-3.11E05	0.06	0.40	0.0	160.5	3	fr

Combinazione quasi permanente

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wklim	st	Sm(mm)	c			
1527	v	50	28	4.6	4.6	2.7	2.7	-9.3	2	q.	0.00E00	-4.32E04	406.1	2	q.	0.00E00	-4.32E04	0.00	0.30	6.1	0.0	2	q.
	o	50	28	4.6	6.2	4.1	4.1	-52.6	2	q.	0.00E00	-2.37E05	1809.8	2	q.	0.00E00	-2.37E05	0.00	0.30	33.8	0.0	2	q.
	v	50	28	3.1	6.2	2.7	2.7	-110.2	2	q.	0.00E00	-5.47E05	3201.3	2	q.	0.00E00	-5.47E05	0.33	0.30	0.0	222.3	2	q.
1545	o	100	20	7.7	10.8	4.1	4.1	-109.1	2	q.	0.00E00	-7.56E05	3068.5	2	q.	0.00E00	-7.56E05	0.25	0.30	0.0	120.7	2	q.
	v	50	20	3.1	6.3	2.7	2.7	-107.8	2	q.	0.00E00	-5.31E05	3223.7	2	q.	0.00E00	-5.31E05	0.41	0.30	0.0	180.5	2	q.
	v	50	20	3.1	3.1	4.1	4.1	-30.7	2	q.	0.00E00	-5.13E04	1165.8	2	q.	0.00E00	-5.13E04	0.00	0.30	14.8	0.0	2	q.
1561	v	50	20	3.1	3.1	2.7	2.7	-57.3	2	q.	0.00E00	-1.18E05	2442.6	2	q.	0.00E00	-1.18E05	0.00	0.30	33.2	0.0	2	q.
	o	100	20	7.7	10.8	4.1	4.1	-15.2	2	q.	0.00E00	-6.41E04	451.4	1	q.	0.00E00	4.89E04	0.00	0.30	9.1	0.0	2	q.
	v	100	20	7.7	15.4	2.7	2.7	-90.8	2	q.	0.00E00	-5.32E05	2295.9	2	q.	0.00E00	-5.32E05	0.14	0.30	0.0	170.4	2	q.
1694	o	100	20	7.7	12.3	4.1	4.1	-12.2	1	q.	0.00E00	-5.40E04	319.1	1	q.	0.00E00	-5.40E04	0.00	0.30	7.6	0.0	1	q.
	v	100	20	7.7	15.4	2.7	2.7	-52.1	2	q.	0.00E00	-3.05E05	1317.1	2	q.	0.00E00	-3.05E05	0.06	0.30	0.0	160.5	2	q.

Piastra a "Piano 2 - sopra ascensore"

Valori in daN, cm
C28/35: rck 350
fyk 4500



Soletta di copertura ano ascensore: indici nodi

Verifica di stato limite ultimo

nod	sez	B	H	Af+	Af-	c+	c-	c.s.	comb	N	M	Nu	Mu
1802	o	50	20	3.4	3.4	3.8	3.8	10.221	3 SLV	0	-20955	0	-214188
1804	o	50	20	2.3	2.3	3.8	3.8	5.000	18 SLU	0	-30351	0	-151761
	v	50	20	3.4	3.4	2.6	2.6	7.563	18 SLU	0	29317	0	221717

Combinazione rara

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wlim	st	Sm(mm)	c
1802	o	50	20	3.4	3.4	3.8	3.8	-8.6	3 ra	0.00E00	-1.57E04	320.2	3 ra	0.00E00	-1.57E04	0.00999.00		4.5	0.0	3 ra
1804	o	50	20	2.3	2.3	3.8	3.8	-15.0	3 ra	0.00E00	-2.28E04	681.0	3 ra	0.00E00	-2.28E04	0.00999.00		6.6	0.0	3 ra
	v	50	20	3.4	3.4	2.6	2.6	-10.1	3 ra	0.00E00	2.20E04	413.8	3 ra	0.00E00	2.20E04	0.00999.00		6.2	0.0	2 ra

Combinazione frequente

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wklim	st	Sm(mm)	c
1802	o	50	20	3.4	3.4	3.8	3.8	-8.0	3 fr	0.00E00	-1.46E04	298.0	3 fr	0.00E00	-1.46E04	0.00	0.40	4.2	0.0	3 fr
1804	o	50	20	2.3	2.3	3.8	3.8	-14.0	3 fr	0.00E00	-2.13E04	636.7	3 fr	0.00E00	-2.13E04	0.00	0.40	6.2	0.0	3 fr
	v	50	20	3.4	3.4	2.6	2.6	-9.4	3 fr	0.00E00	2.05E04	385.0	3 fr	0.00E00	2.05E04	0.00	0.40	5.7	0.0	2 fr

Combinazione quasi permanente

nod	sez	B	H	Af+	Af-	c+	c-	sc	c	N	M	sf	c	N	M	Wk(mm)	Wklim	st	Sm(mm)	c
1802	o	50	20	3.4	3.4	3.8	3.8	-7.9	2 q.	0.00E00	-1.44E04	292.5	2 q.	0.00E00	-1.44E04	0.00	0.30	4.1	0.0	2 q.
1804	o	50	20	2.3	2.3	3.8	3.8	-13.8	2 q.	0.00E00	-2.10E04	626.0	2 q.	0.00E00	-2.10E04	0.00	0.30	6.1	0.0	2 q.
	v	50	20	3.4	3.4	2.6	2.6	-9.2	2 q.	0.00E00	2.01E04	378.1	2 q.	0.00E00	2.01E04	0.00	0.30	5.6	0.0	1 q.

RELAZIONE DI CALCOLO



Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 14 Gennaio 2008 cap. 10 “Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo”.

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MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

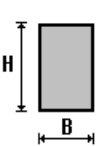
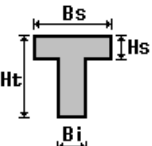
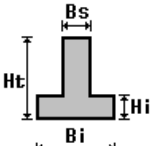
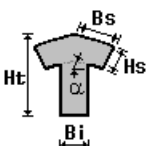
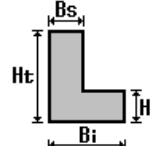
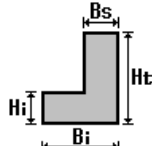
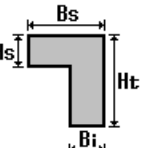
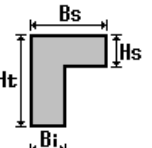
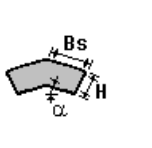
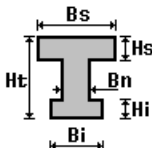
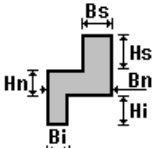
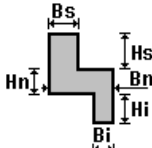
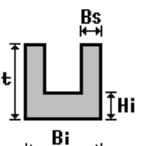
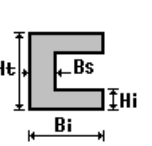
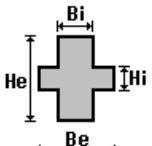
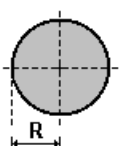
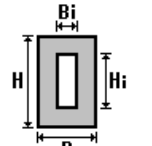
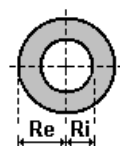
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

- 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 rigidezza
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 rigidezze 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

Con 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 Settembre 2014, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
1	CARATTERISTICHE GEOMETRICHE E INERZIALI
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
104	ANALISI DI RESISTENZA AL FUOCO

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

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. 14/01/08

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
2	1027.4	897.1	-20.0	4	1062.0	897.1	-20.0	6	1087.4	897.1	-20.0
7	1222.4	907.1	-20.0	8	1222.4	897.1	-20.0	9	1278.4	907.1	-20.0
10	1278.4	897.1	-20.0	11	1352.2	907.1	-20.0	12	1352.2	897.1	-20.0
13	1426.0	907.1	-20.0	14	1426.0	897.1	-20.0	15	1499.8	907.1	-20.0
16	1499.8	897.1	-20.0	17	1573.5	907.1	-20.0	18	1573.5	897.1	-20.0
19	1647.3	907.1	-20.0	20	1647.3	897.1	-20.0	21	1721.1	907.1	-20.0
22	1721.1	897.1	-20.0	23	1794.9	907.1	-20.0	24	1794.9	897.1	-20.0
25	1868.7	907.1	-20.0	26	1868.7	897.1	-20.0	27	1942.5	907.1	-20.0
28	1942.5	897.1	-20.0	29	1968.2	979.6	-20.0	30	1206.1	935.2	703.3
31	1062.0	965.4	-20.0	32	1062.0	958.7	-20.0	33	1311.2	989.7	-20.0
34	1311.2	983.0	-20.0	35	1315.3	1460.3	-20.0	36	1275.4	1453.9	-20.0
37	1305.3	1518.5	328.0	38	1292.6	1509.3	328.0	41	1087.4	907.1	707.8
42	1108.4	960.0	704.2	43	1129.5	1012.9	700.6	44	1150.5	1065.8	697.0
45	1176.2	1130.5	692.6	46	1201.9	1195.2	688.2	47	1227.5	1259.9	683.9
48	1253.2	1324.5	679.5	49	1278.9	1389.2	675.1	50	1304.6	1453.9	670.7
51	1330.3	1518.6	666.3	52	1356.0	1583.2	661.9	53	1381.7	1647.9	657.6
54	1278.4	907.1	703.3	55	1301.6	965.6	699.4	56	1324.9	1024.1	695.4
57	1348.1	1082.6	691.4	58	1371.3	1141.1	687.5	59	1397.7	1207.3	683.0
60	1424.0	1273.6	678.5	61	1450.3	1339.9	674.0	62	1474.4	1400.5	669.9
63	1498.5	1461.1	665.8	64	1522.6	1521.8	661.7	65	1546.6	1582.4	657.6
66	1062.0	1263.9	328.0	67	1062.0	1182.5	328.0	68	1062.0	1101.0	328.0
69	1062.0	1082.1	328.0	70	1062.0	1023.7	328.0	71	1062.0	965.4	328.0
72	1062.0	907.1	328.0	73	1471.4	1652.9	-20.0	74	1506.2	1598.4	-20.0
75	1523.7	1629.0	-20.0	76	1526.1	1674.8	-20.0	77	1568.2	1636.6	-20.0
78	1528.8	1777.8	-20.0	79	1488.9	1753.6	-20.0	80	1529.6	1728.3	-20.0
81	1474.0	1711.4	-20.0	82	1589.7	1690.8	-20.0	83	1424.7	1756.3	-20.0
84	1443.9	1623.2	-20.0	85	1403.2	1702.1	-20.0	86	1570.0	1761.4	-20.0
87	1611.2	1745.0	-20.0	88	1546.6	1582.4	-20.0	89	1422.6	1631.7	-20.0
90	1381.7	1647.9	-20.0	91	1487.5	1794.2	-20.0	92	1446.3	1810.5	-20.0
93	2058.1	1782.0	-20.0	94	2105.6	1782.0	-20.0	95	2075.6	1826.1	-20.0
96	2105.6	1814.2	-20.0	97	2105.6	1233.0	-20.0	98	2058.1	1311.5	-20.0
99	2058.1	1233.0	-20.0	100	2105.6	1311.5	-20.0	101	2105.6	1389.9	-20.0
102	2058.1	1389.9	-20.0	103	2058.1	1468.3	-20.0	104	2105.6	1468.3	-20.0
105	2058.1	1546.7	-20.0	106	2058.1	1703.6	-20.0	107	2105.6	1703.6	-20.0
108	2105.6	1625.2	-20.0	109	2058.1	1625.2	-20.0	110	2105.6	1546.7	-20.0
111	1560.1	1495.3	-20.0	112	1505.3	1478.3	-20.0	113	1569.1	1446.7	-20.0
114	1585.8	1537.6	-20.0	115	1526.0	1530.3	-20.0	116	1457.3	1570.7	-20.0
117	1442.4	1509.6	-20.0	118	1487.4	1537.5	-20.0	119	1518.0	1361.8	-20.0
120	1575.8	1383.6	-20.0	121	1530.5	1419.3	-20.0	122	1484.6	1426.2	-20.0
123	1307.9	1777.1	-20.0	124	1369.5	1750.5	-20.0	125	1375.4	1809.8	-20.0
126	373.1	1034.7	-20.0	127	343.3	1092.2	-20.0	128	316.7	1044.4	-20.0
129	322.1	975.8	-20.0	130	259.6	1027.2	-20.0	131	1660.6	1540.9	-20.0
132	1614.3	1483.9	-20.0	133	1663.9	1752.2	-20.0	134	1716.9	1726.1	-20.0
135	1700.0	1793.5	-20.0	136	1655.6	1690.3	-20.0	137	1617.3	1645.7	-20.0
138	1665.9	1617.9	-20.0	139	1607.4	1593.4	-20.0	140	1925.2	1701.4	-20.0
141	1993.2	1738.0	-20.0	142	1930.6	1771.1	-20.0	143	1853.7	1745.8	-20.0
144	1882.5	1803.9	-20.0	145	1410.1	1238.5	-20.0	146	1456.6	1182.5	-20.0
147	1464.0	1246.0	-20.0	148	1430.7	1290.6	-20.0	149	1249.0	954.1	-20.0
150	1243.2	1032.3	-20.0	151	1062.0	1082.1	-20.0	152	1007.1	1049.6	-20.0
153	789.7	2189.1	639.7	154	1062.0	1023.7	-20.0	155	1786.1	1696.9	-20.0
156	1771.9	1769.2	-20.0	157	950.7	1079.6	-20.0	158	906.7	1032.5	-20.0
159	955.6	1021.0	-20.0	160	946.6	1154.6	-20.0	161	1406.3	1584.8	-20.0
162	1411.1	1384.7	-20.0	163	1380.4	1316.7	-20.0	164	1451.4	1342.6	-20.0
165	1393.6	1448.6	-20.0	166	1345.5	1389.6	-20.0	167	1062.0	1222.7	-20.0
168	1103.0	1147.2	-20.0	169	1111.9	1075.2	-20.0	170	1181.2	1101.4	-20.0
171	1151.0	1025.0	-20.0	172	1123.0	1943.5	-20.0	173	1126.6	1881.8	-20.0
174	1184.6	1915.0	-20.0	176	1054.4	1965.2	-20.0	177	1751.9	1838.8	-20.0
178	1823.4	1815.6	-20.0	179	1809.2	1880.8	-20.0	180	1681.5	1463.6	-20.0
181	1739.2	1508.7	-20.0	182	1752.2	1436.3	-20.0	183	1730.5	1582.5	-20.0
184	1724.6	1655.8	-20.0	185	1117.9	959.9	-20.0	186	1189.8	960.9	-20.0
187	1926.8	1556.4	-20.0	188	1991.3	1589.0	-20.0	189	1925.5	1627.2	-20.0
190	1868.1	1521.0	-20.0	191	1927.2	1496.5	-20.0	192	1628.7	1420.0	-20.0
193	1571.5	1303.9	-20.0	194	1528.6	1223.3	-20.0	195	1599.8	1235.6	-20.0
196	1494.0	1294.8	-20.0	197	1637.2	1349.9	-20.0	198	1647.8	1277.5	-20.0
199	1716.0	1248.2	-20.0	200	1705.6	1321.1	-20.0	201	1853.6	1193.2	-20.0
202	1844.4	1263.8	-20.0	203	1785.4	1219.3	-20.0	204	1774.9	1292.5	-20.0
205	1988.5	1515.5	-20.0	206	1970.4	1436.5	-20.0	207	1861.6	1590.0	-20.0
208	1883.1	1454.0	-20.0	209	873.0	1098.1	-20.0	210	917.5	969.2	-20.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
211	409.5	968.2	-20.0	212	285.4	1092.2	-20.0	213	1908.1	1306.2	-20.0
214	1835.6	1336.5	-20.0	215	1979.0	1349.6	-20.0	216	1899.8	1382.0	-20.0
217	1764.3	1364.7	-20.0	218	1593.8	1167.1	-20.0	219	1520.5	1131.4	-20.0
220	1464.0	964.2	-20.0	221	1387.8	973.1	-20.0	222	1991.8	1664.0	-20.0
223	1304.4	1330.7	-20.0	224	1820.9	1062.9	-20.0	225	1799.4	1143.8	-20.0
226	1739.1	1088.9	-20.0	227	1754.0	989.2	-20.0	228	1257.6	1824.0	-20.0
229	1314.3	1857.5	-20.0	230	1248.2	1887.5	-20.0	231	1179.2	1824.6	-20.0
232	881.8	1182.9	-20.0	233	934.0	1236.5	-20.0	234	809.7	1166.5	-20.0
235	557.1	1118.6	-20.0	236	638.8	1132.6	-20.0	237	586.5	1197.3	-20.0
238	508.1	1181.4	-20.0	239	535.2	1255.9	-20.0	240	1336.8	1707.6	-20.0
241	755.3	1235.0	-20.0	242	846.1	1257.4	-20.0	243	783.1	1307.1	-20.0
244	700.6	1311.9	-20.0	245	770.3	1379.8	-20.0	246	1064.1	1897.7	-20.0
247	1000.9	1850.3	-20.0	248	1082.8	1829.6	-20.0	249	1529.9	954.7	-20.0
250	1429.4	1028.3	-20.0	251	1857.3	1663.8	-20.0	252	555.0	1320.1	-20.0
253	618.0	1358.0	-20.0	254	520.3	1392.3	-20.0	255	610.7	1276.9	-20.0
256	1362.7	1520.9	-20.0	257	1239.1	1774.9	-20.0	258	1268.2	1396.9	-20.0
259	1236.9	1474.0	-20.0	260	1188.7	1416.1	-20.0	261	1285.2	1532.0	-20.0
262	1333.4	1590.0	-20.0	263	460.7	1242.2	-20.0	264	478.0	1106.3	-20.0
265	669.2	1217.2	-20.0	266	1911.1	1233.5	-20.0	267	1970.8	1192.5	-20.0
268	1980.7	1271.1	-20.0	269	371.8	897.1	-20.0	270	446.2	1035.4	-20.0
273	1188.4	1733.3	-20.0	274	1263.3	1717.0	-20.0	275	1295.6	1651.7	-20.0
276	1213.1	1659.3	-20.0	277	1129.7	1672.5	-20.0	278	1157.0	1593.3	-20.0
279	1245.5	1589.1	-20.0	280	1189.0	1509.0	-20.0	281	1095.5	1523.2	-20.0
282	989.1	1292.9	-20.0	283	1062.0	1263.9	-20.0	284	1123.5	1245.6	-20.0
285	1131.1	1346.9	-20.0	286	1202.0	1196.2	-20.0	287	1218.2	1310.3	-20.0
288	837.3	993.5	-20.0	289	996.7	973.4	-20.0	290	945.5	897.1	-20.0
291	892.7	1642.5	-20.0	292	982.6	1624.8	-20.0	293	953.1	1710.6	-20.0
294	931.2	1797.5	-20.0	295	1019.7	1771.7	-20.0	296	490.3	968.8	-20.0
297	453.8	897.1	-20.0	298	535.7	897.1	-20.0	299	524.9	1042.2	-20.0
300	571.5	972.3	-20.0	301	742.5	1485.9	-20.0	302	823.3	1439.5	-20.0
303	810.2	1513.5	-20.0	304	875.9	1495.0	-20.0	305	1114.6	1435.4	-20.0
306	1050.5	1363.2	-20.0	307	1439.8	1100.2	-20.0	308	1376.8	1154.9	-20.0
309	843.2	1350.8	-20.0	310	897.4	1411.4	-20.0	311	952.7	1474.3	-20.0
312	973.1	1386.3	-20.0	313	1032.8	1453.8	-20.0	314	1933.6	1831.4	-20.0
315	490.5	1317.3	-20.0	316	723.6	1148.4	-20.0	317	1593.5	1079.7	-20.0
318	1600.8	980.3	-20.0	319	1671.5	1037.7	-20.0	320	1678.9	960.4	-20.0
321	1852.5	978.5	-20.0	322	606.1	1051.0	-20.0	323	654.2	977.3	-20.0
324	690.3	1061.7	-20.0	325	740.3	983.9	-20.0	326	779.0	1075.6	-20.0
327	781.6	897.1	-20.0	328	916.1	1321.9	-20.0	330	430.9	1167.2	-20.0
331	1010.0	1540.3	-20.0	332	997.4	1917.0	-20.0	333	911.1	1889.8	-20.0
334	853.7	1825.6	-20.0	335	849.0	1738.0	-20.0	336	772.5	1810.6	-20.0
337	740.0	1728.8	-20.0	338	799.8	1650.6	-20.0	339	1309.7	1239.9	-20.0
340	1276.2	1132.3	-20.0	341	1344.0	1072.3	-20.0	342	1511.1	1034.3	-20.0
343	233.7	962.1	-20.0	344	845.0	1572.5	-20.0	345	1945.9	1119.2	-20.0
346	1872.9	1124.1	-20.0	347	1908.9	1051.2	-20.0	348	1993.9	1052.1	-20.0
349	1663.5	1125.5	-20.0	350	1107.1	1753.3	-20.0	351	1069.7	1607.2	-20.0
352	956.6	1982.8	-20.0	353	1043.6	1689.8	-20.0	354	926.5	1558.3	-20.0
356	679.8	1577.2	-20.0	357	764.2	1574.5	-20.0	358	833.3	1963.6	-20.0
359	861.6	2034.9	-20.0	360	976.1	2071.9	-20.0	361	1726.6	1172.2	-20.0
362	1635.8	1806.8	-20.0	363	1793.2	1622.9	-20.0	364	1800.4	1550.5	-20.0
365	1910.6	1172.7	-20.0	366	1694.8	1392.6	-20.0	367	1810.9	1479.7	-20.0
368	1657.7	1204.7	-20.0	369	1824.1	1408.8	-20.0	370	2019.6	1124.7	-20.0
371	401.1	1092.2	-20.0	372	1660.3	1868.5	-20.0	374	1389.8	1907.6	-20.0
377	1871.4	1856.1	-20.0	378	707.5	1647.0	-20.0	379	805.0	1892.4	-20.0
380	617.7	897.1	-20.0	381	699.6	897.1	-20.0	382	1154.9	897.1	-20.0
383	2105.6	981.1	-20.0	384	2024.0	897.1	-20.0	385	2105.6	1149.0	-20.0
386	2105.6	1065.1	-20.0	387	889.9	2106.1	-20.0	388	1471.9	1875.0	-20.0
389	1747.0	1905.5	-20.0	390	1684.8	1930.3	-20.0	391	1995.9	1806.7	-20.0
392	863.5	897.1	-20.0	393	550.1	1467.3	-20.0	394	289.9	897.1	-20.0
395	207.9	897.1	-20.0	396	2105.6	897.1	-20.0	397	815.5	2135.6	-20.0
398	786.0	2061.4	-20.0	399	756.5	1987.1	-20.0	400	727.0	1912.9	-20.0
401	697.5	1838.6	-20.0	402	668.1	1764.3	-20.0	403	579.6	1541.5	-20.0
404	609.1	1615.8	-20.0	405	638.6	1690.1	-20.0	406	1566.6	1803.5	-20.0
407	1573.1	1851.2	-20.0	408	1525.6	1820.3	-20.0	409	837.4	2190.6	-20.0
410	898.1	2214.7	-20.0	411	859.2	2245.6	-20.0	412	881.1	2300.6	-20.0
413	955.7	2271.0	-20.0	414	1403.7	2093.0	-20.0	415	1322.9	2029.7	-20.0
416	1396.7	2000.4	-20.0	417	1478.4	2063.4	-20.0	418	1116.5	2111.7	-20.0
419	1105.1	2211.6	-20.0	420	1042.6	2141.4	-20.0	421	1185.5	2084.2	-20.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
422	1179.7	2182.0	-20.0	423	1253.8	2057.1	-20.0	424	1254.4	2152.3	-20.0
425	965.5	2174.4	-20.0	426	1030.4	2241.3	-20.0	427	1329.0	2122.7	-20.0
428	1478.0	1968.9	-20.0	429	1553.0	2033.7	-20.0	430	1578.4	1933.1	-20.0
431	1627.7	2004.1	-20.0	432	1702.3	1974.4	-20.0	433	2013.4	1850.9	-20.0
434	1951.2	1875.6	-20.0	435	1889.0	1900.3	-20.0	436	1764.6	1949.7	-20.0
437	1826.8	1925.0	-20.0	438	1446.3	1810.5	67.0	439	1471.9	1875.0	67.0
440	1446.3	1810.5	154.0	441	1471.9	1875.0	154.0	442	1446.3	1810.5	241.0
443	1471.9	1875.0	241.0	444	1446.3	1810.5	328.0	445	1471.9	1875.0	328.0
449	1412.6	1725.8	322.6	453	1381.7	1647.9	58.3	455	1424.7	1756.3	328.0
460	1451.4	1342.6	215.0	461	1430.7	1290.6	215.0	463	1410.1	1238.5	215.0
464	1311.1	989.3	59.7	465	1278.4	907.1	58.3	466	1343.9	1071.8	59.7
467	1376.8	1154.9	58.3	468	1310.8	988.7	141.3	469	1278.4	907.1	136.7
470	1343.5	1071.1	141.3	471	1376.8	1154.9	136.7	472	1310.3	987.4	227.9
473	1278.4	907.1	215.0	474	1342.8	1069.1	227.9	475	1376.8	1154.9	215.0
476	1309.4	985.1	328.0	478	1340.4	1063.1	328.0	480	1430.7	1290.6	58.3
481	1410.1	1238.5	58.3	482	1451.4	1342.6	58.3	483	1430.7	1290.6	136.7
484	1410.1	1238.5	136.7	485	1451.4	1342.6	136.7	486	1484.6	1426.2	215.0
487	1484.6	1426.2	328.0	488	1505.3	1478.3	227.9	489	1505.3	1478.3	328.0
490	1505.3	1478.3	141.3	491	1484.6	1426.2	136.7	492	1505.3	1478.3	59.7
493	1484.6	1426.2	58.3	496	1526.0	1530.3	141.3	497	1526.0	1530.3	59.7
500	1546.6	1582.4	136.7	501	1546.6	1582.4	58.3	502	1568.2	1636.6	231.3
504	1568.2	1636.6	145.0	505	1568.2	1636.6	62.0	506	1589.7	1690.8	237.6
507	1589.7	1690.8	328.0	508	1589.7	1690.8	150.3	509	1589.7	1690.8	64.8
510	1611.2	1745.0	241.0	511	1611.2	1745.0	328.0	512	1611.2	1745.0	154.0
513	1611.2	1745.0	67.0	514	1635.8	1806.8	67.0	515	1660.3	1868.5	67.0
516	1684.8	1930.3	67.0	517	1635.8	1806.8	154.0	518	1660.3	1868.5	154.0
519	1684.8	1930.3	154.0	520	1635.8	1806.8	241.0	521	1660.3	1868.5	241.0
522	1684.8	1930.3	241.0	523	1635.8	1806.8	328.0	524	1660.3	1868.5	328.0
525	1684.8	1930.3	328.0	526	1217.0	907.1	629.9	527	1278.4	907.1	629.2
528	1214.7	907.1	704.8	529	1218.4	907.1	554.9	530	1278.4	907.1	555.0
531	1219.7	907.1	479.4	532	1278.4	907.1	479.3	536	1157.7	907.1	630.8
537	1151.1	907.1	706.3	538	1160.8	907.1	555.3	539	1162.3	907.1	479.7
540	1160.4	907.1	403.9	541	1154.9	907.1	328.0	542	1103.8	907.1	631.7
543	1109.1	907.1	555.8	544	1109.5	907.1	480.0	545	1104.8	907.1	404.0
546	1087.4	907.1	328.0	547	1063.8	907.1	632.3	548	1057.4	907.1	708.5
549	1066.7	907.1	556.3	550	1066.9	907.1	480.2	551	1065.3	907.1	404.1
552	1027.4	907.1	632.9	553	1027.4	907.1	709.1	554	1027.4	907.1	556.7
555	1027.4	907.1	480.5	556	1027.4	907.1	404.1	557	1404.4	1066.9	-20.0
560	1222.4	907.1	215.0	561	1867.4	907.1	240.4	562	1942.5	907.1	241.0
563	1942.5	907.1	328.0	564	1866.9	907.1	328.0	565	1867.8	907.1	153.2
566	1942.5	907.1	154.0	567	1868.3	907.1	66.4	568	1942.5	907.1	67.0
569	1792.2	907.1	239.8	570	1791.3	907.1	328.0	571	1793.2	907.1	152.3
572	1794.0	907.1	65.8	573	1717.1	907.1	239.2	574	1715.7	907.1	328.0
575	1718.5	907.1	151.5	576	1719.8	907.1	65.3	577	1642.1	907.1	238.5
578	1640.2	907.1	328.0	579	1643.9	907.1	150.6	580	1645.7	907.1	64.7
581	1567.2	907.1	237.8	582	1564.6	907.1	328.0	583	1569.5	907.1	149.7
584	1571.6	907.1	64.1	585	1492.6	907.1	236.9	586	1489.0	907.1	328.0
587	1495.4	907.1	148.6	588	1497.7	907.1	63.4	589	1419.1	907.1	235.1
590	1413.4	907.1	328.0	591	1422.2	907.1	147.3	592	1424.2	907.1	62.4
593	1348.3	907.1	230.1	594	1345.9	907.1	328.0	595	1349.9	907.1	143.3
596	1351.2	907.1	60.8	597	1222.4	907.1	58.3	598	1222.4	907.1	136.7
599	1154.9	907.1	215.0	605	1027.4	907.1	136.7	606	1027.4	907.1	215.0
608	1349.3	907.1	701.7	610	1420.2	907.1	700.0	611	1489.7	907.1	625.3
612	1491.0	907.1	698.4	613	1561.8	907.1	623.5	614	1561.9	907.1	696.7
615	1633.7	907.1	622.0	616	1632.8	907.1	695.1	617	1705.3	907.1	620.5
618	1703.7	907.1	693.4	619	1776.7	907.1	619.1	620	1774.5	907.1	691.8
621	1847.7	907.1	617.8	622	1845.4	907.1	690.1	623	1918.2	907.1	616.4
624	1916.3	907.1	688.5	625	1988.3	907.1	615.1	626	1987.2	907.1	686.8
627	2058.1	907.1	613.8	628	2058.1	907.1	685.2	632	1561.8	907.1	550.2
633	1634.7	907.1	548.8	634	1707.2	907.1	547.5	635	1779.2	907.1	546.4
636	1850.4	907.1	545.4	637	1920.7	907.1	544.4	638	1989.7	907.1	543.3
639	2058.1	907.1	542.3	642	1562.4	907.1	476.3	643	1636.2	907.1	475.3
644	1709.5	907.1	474.5	645	1782.3	907.1	473.7	646	1854.1	907.1	473.0
647	1924.2	907.1	472.3	648	1991.8	907.1	471.6	649	2058.1	907.1	470.9
650	1488.5	907.1	402.9	651	1413.4	907.1	403.7	652	1563.4	907.1	402.2
653	1638.0	907.1	401.7	654	1712.4	907.1	401.3	655	1786.4	907.1	400.9
656	1859.4	907.1	400.5	657	1930.3	907.1	400.1	658	1995.1	907.1	399.8
659	2058.1	907.1	399.4	660	2000.3	907.1	328.0	661	2058.1	907.1	328.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
662	820.7	2311.1	631.8	663	788.2	2324.1	631.8	664	775.2	2291.5	634.0
665	807.8	2278.6	634.0	666	879.0	2250.3	634.0	667	891.9	2282.9	631.8
668	950.2	2222.0	634.0	669	963.1	2254.6	631.8	670	1021.4	2193.8	634.0
671	1034.3	2226.3	631.8	672	1092.6	2165.5	634.0	673	1105.5	2198.0	631.8
674	1163.8	2137.2	634.0	675	1176.7	2169.7	631.8	676	1235.0	2108.9	634.0
677	1247.9	2141.4	631.8	678	1306.2	2080.6	634.0	679	1319.1	2113.2	631.8
680	1377.4	2052.3	634.0	681	1390.4	2084.9	631.8	682	1448.6	2024.1	634.0
683	1461.6	2056.6	631.8	684	1519.8	1995.8	634.0	685	1532.8	2028.3	631.8
686	1030.0	1358.1	682.7	687	1055.0	1418.4	678.6	688	997.6	1444.5	678.4
689	972.7	1382.8	682.6	690	1007.6	1298.5	686.7	691	949.1	1322.6	686.7
692	1084.6	1332.6	682.9	693	1109.9	1392.9	678.8	694	1061.8	1277.0	686.7
695	1135.1	1308.4	683.2	696	1162.2	1367.9	679.1	697	1110.3	1252.8	687.0
698	1180.8	1284.3	683.5	699	1209.8	1345.1	679.3	700	1150.4	1224.2	687.7
701	1044.5	1224.7	690.2	702	988.5	1243.3	690.4	703	972.8	1194.8	693.6
704	1036.8	1175.1	693.2	705	1108.6	1164.6	692.2	706	1087.8	1214.0	689.8
707	927.9	1266.9	690.4	708	909.7	1218.4	693.7	709	866.2	1292.7	690.3
710	846.4	1243.3	693.7	711	888.6	1348.3	686.6	712	913.3	1408.6	682.5
713	938.5	1470.8	678.2	714	1023.7	1506.3	674.2	715	1050.5	1568.0	669.9
716	992.0	1594.6	669.7	717	964.6	1533.2	674.0	718	1080.8	1480.3	674.4
719	1107.7	1542.2	670.1	720	1135.6	1455.2	674.6	721	1162.8	1517.3	670.3
722	1187.6	1431.2	674.8	723	1214.1	1494.2	670.5	724	1235.3	1409.2	674.9
725	1261.6	1473.0	670.6	726	1103.5	1689.6	661.6	727	1131.0	1749.0	657.5
728	1072.4	1774.7	657.3	729	1045.0	1715.4	661.4	730	1076.8	1629.2	665.7
731	1018.5	1655.5	665.6	732	1160.6	1664.6	661.7	733	1188.5	1724.0	657.6
734	1134.0	1603.9	665.9	735	1215.0	1640.8	661.9	736	1241.6	1700.3	657.8
737	1188.8	1579.6	666.0	738	1266.2	1618.9	661.9	739	1292.0	1678.8	657.8
740	1240.6	1557.0	666.2	741	1314.0	1599.4	662.0	742	1337.4	1661.0	657.8
743	1287.4	1536.7	666.3	744	752.2	1825.0	661.8	745	775.6	1892.2	657.4
746	722.4	1912.8	657.4	747	696.3	1840.9	662.2	748	731.6	1756.0	666.4
749	672.4	1773.1	666.7	750	805.4	1811.1	661.4	751	829.2	1873.0	657.2
752	783.6	1752.4	665.3	753	864.8	1790.2	661.3	754	889.2	1850.7	657.1
755	840.9	1731.7	665.2	756	719.3	1672.7	671.5	757	781.5	1622.8	673.0
758	816.5	1676.5	669.0	759	772.5	1701.4	668.6	760	645.6	1694.3	672.0
761	924.7	1766.4	661.3	762	950.5	1826.2	657.1	763	899.1	1707.2	665.3
764	872.3	1649.0	669.3	765	842.6	1589.8	673.5	766	748.0	1551.5	677.9
767	813.7	1524.5	678.0	768	683.2	1575.8	678.0	769	615.8	1604.6	677.9
770	984.7	1741.4	661.3	771	1011.9	1800.6	657.2	772	958.4	1681.6	665.4
773	931.6	1621.8	669.6	774	904.1	1561.0	673.8	775	877.3	1497.4	678.1
776	851.7	1434.6	682.4	777	789.3	1458.0	682.4	778	827.0	1374.2	686.5
779	767.5	1397.8	686.5	780	803.8	1318.3	690.3	781	742.5	1342.9	690.3
782	783.4	1269.5	693.6	783	721.3	1296.2	693.5	784	713.0	1417.0	686.6
785	725.3	1475.1	682.9	786	688.5	1368.1	690.0	787	663.3	1328.1	693.0
788	651.0	1473.8	684.7	789	580.4	1508.8	684.3	790	544.4	1416.6	690.6
791	613.8	1380.2	691.1	792	655.7	1391.7	689.4	793	672.5	1427.5	686.9
794	1317.8	1736.0	653.9	795	1360.3	1718.2	653.9	796	1344.8	1790.5	650.1
798	1269.6	1757.7	653.7	799	1295.7	1811.5	650.0	800	1215.7	1781.8	653.6
801	1244.7	1836.8	649.7	802	1159.2	1807.8	653.4	803	1188.1	1866.2	649.3
804	1099.6	1833.7	653.2	805	1127.8	1892.5	649.2	806	1328.8	1929.6	642.3
807	1279.1	1887.5	645.9	808	1322.8	1860.1	646.5	809	1342.6	1888.2	644.4
810	1364.6	1839.5	646.8	812	1403.8	1895.5	642.6	813	1371.1	1874.5	644.6
814	1425.7	1964.7	638.0	815	1353.2	1993.0	638.0	816	1253.4	1969.8	641.7
817	1219.3	1922.4	645.3	818	1280.8	2024.9	637.9	819	1156.4	1951.1	645.1
820	1184.5	2002.5	641.4	821	1210.4	2055.5	637.7	822	1038.7	1859.8	653.1
823	1065.9	1919.2	649.0	824	1092.9	1978.7	644.9	825	1117.4	2032.4	641.2
826	1140.9	2084.5	637.6	827	915.6	1910.7	653.0	828	976.8	1885.7	653.1
829	940.9	1971.1	648.9	830	1002.8	1945.6	649.0	831	856.0	1934.8	653.0
832	881.1	1996.9	648.8	833	799.0	1957.6	653.0	834	825.2	2022.8	648.6
835	746.7	1978.0	653.0	836	775.9	2048.8	648.2	837	856.0	2171.1	639.2
838	810.0	2111.1	643.7	839	853.2	2079.4	644.6	840	877.4	2120.5	641.6
841	923.8	2109.1	641.2	842	933.2	2160.4	638.0	843	905.6	2054.1	644.9
844	984.9	2088.3	641.0	845	1002.8	2139.2	637.6	846	964.0	2031.2	644.8
847	1051.1	2062.4	641.0	848	1071.9	2113.1	637.5	849	1027.8	2005.3	644.9
850	781.3	2211.9	638.5	851	754.7	2145.1	643.0	852	1495.3	1934.0	638.2
853	1470.8	1872.3	642.4	857	1085.7	1091.5	697.0	858	1021.0	1117.3	697.0
859	956.3	1143.0	697.0	860	891.5	1168.7	697.0	861	826.8	1194.4	697.0
862	762.1	1220.1	697.0	863	697.3	1245.8	697.0	864	632.6	1271.5	697.0
865	567.9	1297.3	697.0	866	503.1	1323.0	697.0	867	438.4	1348.7	697.0
868	480.4	1454.4	689.8	869	515.0	1541.4	683.9	872	617.9	1800.6	666.4

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
873	638.5	1852.5	662.9	874	673.1	1939.5	657.0	877	519.5	1647.7	677.6
878	547.9	1719.3	672.8	879	576.3	1790.8	667.9	880	604.8	1862.3	663.1
881	633.2	1933.9	658.2	882	661.6	2005.4	653.4	883	690.0	2076.9	648.5
884	718.4	2148.5	643.7	885	462.7	1504.7	687.3	886	491.1	1576.2	682.5
887	746.8	2220.0	638.8	888	434.3	1433.1	692.2	889	405.9	1361.6	697.0
890	1062.0	1023.7	237.6	891	1062.0	1082.1	241.0	892	1062.0	1023.7	150.3
893	1062.0	1082.1	154.0	894	1062.0	1023.7	64.8	895	1062.0	1082.1	67.0
896	1062.0	965.4	231.3	897	1062.0	965.4	145.0	898	1062.0	965.4	62.0
899	1250.3	1105.4	695.4	900	1288.4	1040.9	695.2	901	1308.7	1097.1	691.5
902	1267.5	1109.2	691.7	903	1223.7	1119.0	692.2	904	1205.8	1054.7	696.4
905	1198.8	981.2	700.8	906	1249.4	959.7	700.9	907	1270.0	992.9	698.5
908	1239.7	1008.9	698.3	909	1331.3	1157.2	687.4	910	1288.8	1170.6	687.7
911	1245.8	1182.8	687.9	912	1356.4	1221.1	683.1	913	1313.0	1234.3	683.4
914	1270.1	1247.2	683.6	915	1389.5	1428.1	670.2	916	1414.4	1491.8	665.9
917	1372.1	1505.2	666.1	918	1346.7	1441.0	670.5	919	1364.3	1363.9	674.6
920	1320.8	1376.7	674.8	921	1388.4	1299.0	679.0	922	1295.7	1311.8	679.2
923	1432.2	1414.4	670.1	924	1456.9	1478.0	665.8	925	1407.9	1351.2	674.3
926	1382.1	1286.0	678.7	927	1439.2	1554.4	661.7	928	1397.4	1568.9	661.8
929	1481.0	1538.8	661.6	930	1422.6	1631.7	657.6	931	1463.9	1615.2	657.6
932	1505.3	1598.8	657.6	933	1152.7	948.7	703.8	934	1086.3	996.0	328.0
935	1096.0	1043.6	328.0	938	1129.5	1012.9	328.0	939	1108.4	960.0	328.0
940	1078.6	956.3	328.0	960	1415.5	1491.0	328.0	961	1440.0	1554.3	328.0
962	1396.2	1565.1	328.0	963	1369.9	1497.6	328.0	964	1390.7	1426.0	328.0
965	1342.9	1427.8	328.0	966	1363.6	1356.3	328.0	967	1315.3	1357.2	328.0
968	1337.0	1288.1	328.0	969	1287.5	1286.4	328.0	970	1310.7	1219.3	328.0
971	1259.6	1215.2	328.0	972	1282.9	1147.3	328.0	973	1231.7	1143.8	328.0
974	1256.0	1077.3	328.0	975	1205.6	1074.3	328.0	976	1234.7	1013.9	328.0
977	1184.2	1015.1	328.0	978	1220.8	958.3	328.0	979	1167.1	960.1	328.0
980	1460.7	1484.2	328.0	981	1483.2	1541.8	328.0	982	1438.3	1424.6	328.0
983	1410.8	1353.6	328.0	984	1385.5	1289.4	328.0	985	1360.5	1224.3	328.0
986	1330.5	1147.4	328.0	987	1301.0	1073.6	328.0	988	1276.6	1006.4	328.0
989	1258.6	957.2	328.0	990	1179.4	1138.6	328.0	991	1208.3	1211.4	328.0
992	1237.2	1284.1	328.0	993	1266.1	1356.9	328.0	994	1295.0	1429.6	328.0
995	1323.9	1502.4	328.0	996	1352.8	1575.1	328.0	998	1464.4	1615.1	328.0
1000	2058.1	975.0	328.0	1001	2058.1	1043.0	328.0	1002	2025.7	1046.0	328.0
1003	2013.1	976.9	328.0	1004	1968.2	979.6	328.0	1005	1993.9	1052.1	328.0
1007	2037.8	1112.4	328.0	1009	2044.9	1153.6	328.0	1010	2058.1	1169.7	328.0
1012	2058.1	1106.3	328.0	1013	1914.1	1249.2	328.0	1014	1875.2	1178.8	328.0
1015	1918.1	1150.2	328.0	1016	1940.7	1195.7	328.0	1017	1986.2	1189.2	328.0
1018	1990.0	1251.3	328.0	1019	1965.1	1133.0	328.0	1020	1995.4	1333.3	328.0
1021	1925.2	1339.9	328.0	1022	1838.8	1279.5	328.0	1023	1813.4	1208.4	328.0
1024	1856.0	1356.5	328.0	1025	1935.7	1420.1	328.0	1026	1870.3	1431.8	328.0
1027	1997.8	1414.4	328.0	1028	1772.2	1303.0	328.0	1029	1708.9	1324.4	328.0
1030	1688.7	1256.0	328.0	1031	1750.8	1233.7	328.0	1032	1790.2	1374.2	328.0
1033	1728.1	1392.3	328.0	1034	1806.2	1444.1	328.0	1035	1745.0	1459.0	328.0
1036	1819.5	1511.4	328.0	1037	1832.1	1575.7	328.0	1038	1774.0	1585.9	328.0
1039	1760.2	1523.5	328.0	1040	1880.8	1500.9	328.0	1041	1891.3	1566.8	328.0
1042	1942.8	1491.9	328.0	1043	1950.9	1559.4	328.0	1044	2001.4	1486.1	328.0
1045	2005.8	1553.5	328.0	1046	1843.5	1638.8	328.0	1047	1785.1	1646.6	328.0
1048	1901.7	1630.1	328.0	1049	1958.1	1622.6	328.0	1050	2013.0	1618.6	328.0
1051	1589.8	1368.1	328.0	1052	1533.6	1393.8	328.0	1053	1504.2	1326.4	328.0
1054	1565.8	1301.7	328.0	1055	1648.5	1345.5	328.0	1056	1627.6	1278.0	328.0
1057	1611.2	1431.5	328.0	1058	1556.5	1453.9	328.0	1059	1668.5	1411.1	328.0
1060	1631.0	1492.5	328.0	1061	1577.4	1511.2	328.0	1062	1687.0	1474.9	328.0
1063	1649.7	1551.6	328.0	1064	1597.5	1567.2	328.0	1065	1703.8	1536.9	328.0
1066	1667.5	1609.3	328.0	1067	1617.6	1622.9	328.0	1068	1719.6	1596.8	328.0
1069	1684.7	1665.0	328.0	1070	1638.5	1677.7	328.0	1071	1733.5	1654.6	328.0
1072	1700.1	1718.2	328.0	1073	1663.4	1731.1	328.0	1074	1744.5	1710.1	328.0
1075	1790.9	1705.9	328.0	1076	1855.4	1702.4	328.0	1077	1914.5	1691.7	328.0
1078	1965.2	1681.0	328.0	1079	2015.9	1678.2	328.0	1080	1506.9	1077.7	328.0
1081	1435.5	1101.9	328.0	1082	1406.5	1004.6	328.0	1083	1491.5	990.8	328.0
1084	1577.5	1059.5	328.0	1085	1568.4	980.5	328.0	1086	1650.2	1050.2	328.0
1087	1645.0	978.7	328.0	1088	1723.2	1046.3	328.0	1089	1721.2	978.2	328.0
1090	1525.8	1159.1	328.0	1091	1463.0	1190.3	328.0	1092	1588.8	1135.6	328.0
1093	1655.1	1116.3	328.0	1094	1720.7	1102.2	328.0	1095	1545.1	1232.7	328.0
1096	1481.3	1261.5	328.0	1097	1607.4	1208.6	328.0	1098	1669.9	1187.3	328.0
1099	1732.7	1167.3	328.0	1100	1800.5	1055.5	328.0	1101	1839.0	1118.6	328.0
1102	1789.4	1146.1	328.0	1103	1770.2	1101.3	328.0	1104	1800.7	983.1	328.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1105	1890.8	1093.8	328.0	1106	1859.9	1048.2	328.0	1107	1888.6	995.3	328.0
1108	1936.1	1067.9	328.0	1109	1779.3	1763.6	328.0	1110	1795.4	1824.2	328.0
1111	1726.8	1845.6	328.0	1112	1703.7	1783.7	328.0	1113	1717.7	1749.5	328.0
1114	1747.4	1741.5	328.0	1115	1854.3	1753.8	328.0	1116	1865.1	1807.2	328.0
1117	1917.5	1741.9	328.0	1118	1929.4	1790.3	328.0	1119	1970.6	1730.7	328.0
1120	2017.8	1726.7	328.0	1121	2019.9	1761.3	328.0	1122	1981.8	1773.1	328.0
1123	1747.5	1905.3	328.0	1124	1810.3	1880.4	328.0	1125	1877.2	1853.8	328.0
1126	1944.1	1827.3	328.0	1127	2001.1	1804.6	328.0	1128	2058.1	1782.0	328.0
1129	2058.1	1732.0	328.0	1132	2058.1	1550.0	328.0	1133	2058.1	1484.0	328.0
1134	2058.1	1418.0	328.0	1135	2058.1	1325.5	328.0	1136	1353.6	964.5	328.0
1137	1660.3	1868.5	574.0	1138	1660.3	1868.5	638.2	1139	1684.8	1930.3	634.0
1140	1684.8	1930.3	569.3	1145	1660.3	1868.5	510.2	1146	1684.8	1930.3	504.7
1147	1635.8	1806.8	514.9	1148	1611.2	1745.0	519.1	1149	1660.3	1868.5	447.3
1150	1684.8	1930.3	440.0	1151	1635.8	1806.8	451.8	1152	1611.2	1745.0	455.4
1153	1660.3	1868.5	387.2	1154	1684.8	1930.3	384.0	1155	1635.8	1806.8	389.7
1156	1611.2	1745.0	391.7	1157	1424.5	1275.0	590.8	1158	1450.3	1339.9	587.5
1159	1398.3	1208.8	594.2	1160	1371.3	1141.1	597.6	1161	1425.4	1277.0	503.2
1162	1450.3	1339.9	501.0	1163	1399.3	1211.4	505.5	1164	1371.3	1141.1	507.7
1169	2058.1	1115.9	673.0	1170	2058.1	1048.1	676.9	1171	2058.1	1043.0	590.0
1172	2058.1	1111.0	590.0	1173	2058.1	1183.6	669.0	1174	2058.1	1179.0	590.0
1175	2058.1	1251.4	665.0	1176	2058.1	1247.0	590.0	1177	2058.1	1718.2	572.5
1178	2058.1	1782.0	569.3	1179	2058.1	1782.0	634.0	1180	2058.1	1715.7	637.9
1181	2058.1	1720.7	507.9	1182	2058.1	1782.0	504.7	1183	2058.1	1723.5	445.0
1184	2058.1	1782.0	440.0	1185	2058.1	1727.1	385.8	1186	2058.1	1782.0	384.0
1187	2058.1	1653.5	576.1	1188	2058.1	1649.3	641.8	1189	2058.1	1658.1	510.9
1190	2058.1	1663.6	447.3	1191	2058.1	1670.3	386.8	1192	2058.1	1588.3	579.0
1193	2058.1	1583.0	645.6	1194	2058.1	1594.1	513.0	1195	2058.1	1600.6	448.6
1196	2058.1	1607.5	387.4	1197	2058.1	1522.3	581.8	1198	2058.1	1516.7	649.5
1199	2058.1	1528.4	514.8	1200	2058.1	1535.2	449.5	1201	2058.1	1542.1	387.8
1202	2058.1	1455.4	584.4	1203	2058.1	1450.4	653.4	1204	2058.1	1460.9	516.3
1205	2058.1	1467.4	450.2	1206	2058.1	1474.5	388.1	1207	2058.1	1387.4	586.7
1208	2058.1	1384.0	657.3	1209	2058.1	1391.4	517.2	1210	2058.1	1396.5	450.2
1211	2058.1	1403.2	387.9	1212	2058.1	1318.2	588.4	1213	2058.1	1317.7	661.2
1214	2058.1	1319.6	517.2	1215	2058.1	1321.8	448.1	1216	2058.1	1322.8	386.8
1217	2058.1	1247.0	515.0	1218	2058.1	1247.0	440.0	1219	2058.1	1240.0	384.0
1220	2058.1	1174.3	384.0	1221	2058.1	1179.0	440.0	1222	2058.1	1108.7	384.0
1223	2058.1	1111.0	440.0	1224	2058.1	1043.0	384.0	1225	2058.1	1043.0	440.0
1226	2058.1	975.7	603.7	1227	2058.1	977.6	681.1	1228	2058.1	975.2	529.8
1229	2058.1	1043.0	515.0	1230	2058.1	975.1	458.3	1231	2058.1	975.0	392.4
1232	1747.5	1905.3	384.0	1233	1747.5	1905.3	440.0	1234	1810.3	1880.4	384.0
1235	1810.3	1880.4	440.0	1236	1877.2	1853.8	384.0	1237	1877.2	1853.8	440.0
1238	1944.1	1827.3	384.0	1239	1944.1	1827.3	440.0	1240	2001.1	1804.6	384.0
1241	2001.1	1804.6	440.0	1242	2001.1	1804.6	508.8	1243	2001.1	1804.6	575.5
1244	2001.1	1804.6	634.0	1245	1944.1	1827.3	515.0	1246	1944.1	1827.3	590.0
1247	1944.1	1827.3	634.0	1248	1899.5	1845.0	634.0	1249	1899.5	1845.0	590.0
1250	1854.9	1862.7	634.0	1251	1854.9	1862.7	590.0	1252	1810.3	1880.4	634.0
1253	1810.3	1880.4	590.0	1254	1747.5	1905.3	508.8	1255	1810.3	1880.4	515.0
1256	1747.5	1905.3	575.5	1257	1747.5	1905.3	634.0	1258	1496.4	1042.1	690.3
1259	1420.1	1056.4	691.3	1260	1400.4	982.2	696.1	1261	1487.8	975.0	694.5
1262	1570.7	1033.7	689.1	1263	1564.1	970.1	693.0	1264	1642.3	1027.2	687.8
1265	1636.5	965.9	691.5	1266	1711.8	1021.4	686.6	1267	1707.1	963.7	690.0
1268	1508.2	1105.8	686.3	1269	1436.7	1120.4	687.2	1270	1580.2	1096.1	685.2
1271	1650.2	1087.7	684.1	1272	1718.2	1080.1	683.0	1273	1523.7	1171.1	682.2
1274	1457.4	1187.6	682.7	1275	1592.3	1159.1	681.3	1276	1660.3	1149.4	680.3
1277	1726.8	1140.8	679.2	1278	1542.0	1237.4	677.9	1279	1479.5	1254.1	678.3
1280	1606.6	1223.5	677.2	1281	1672.4	1212.3	676.3	1282	1737.3	1203.0	675.3
1283	1560.2	1302.1	673.6	1284	1503.2	1319.8	673.9	1285	1622.1	1287.5	673.1
1286	1686.0	1275.3	672.3	1287	1749.6	1264.6	671.4	1288	1580.1	1366.5	669.4
1289	1525.4	1383.1	669.7	1290	1638.1	1351.5	668.9	1291	1700.4	1338.0	668.3
1292	1762.4	1325.5	667.6	1293	1599.7	1428.9	665.3	1294	1545.0	1445.7	665.6
1295	1656.4	1413.5	664.9	1296	1715.9	1398.8	664.4	1297	1776.4	1384.3	663.8
1298	1620.6	1488.8	661.3	1299	1567.9	1506.0	661.5	1300	1675.5	1472.6	661.0
1301	1732.9	1456.9	660.6	1302	1791.3	1441.1	660.1	1303	1904.4	1015.4	682.4
1304	1903.9	1069.4	679.3	1305	1846.9	1070.8	680.5	1306	1846.4	1011.5	684.0
1307	1845.3	961.4	687.0	1308	1912.5	966.7	685.1	1309	1983.4	983.9	682.4
1310	2001.3	1054.1	677.9	1311	1955.5	1065.3	678.3	1312	1947.8	1021.5	681.1
1313	1908.6	1126.3	675.8	1314	1852.7	1129.1	677.0	1315	1961.7	1122.3	674.8
1316	2008.2	1118.9	674.0	1317	1915.3	1185.1	672.2	1318	1860.6	1189.3	673.3

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1319	1965.8	1183.1	671.2	1320	2010.4	1183.4	670.1	1321	1779.8	1016.3	685.3
1322	1776.7	962.0	688.5	1323	1784.2	1074.3	681.8	1324	1791.3	1134.1	678.1
1326	1811.5	1255.9	670.5	1327	1869.6	1248.6	669.6	1328	1920.8	1241.9	668.8
1329	1968.6	1240.3	667.8	1330	2009.6	1247.9	666.4	1331	1822.3	1314.1	666.9
1332	1880.2	1304.2	666.1	1333	1834.7	1370.7	663.3	1334	1891.3	1357.6	662.7
1335	1848.0	1426.6	659.7	1336	1903.6	1413.3	659.2	1337	1929.8	1293.4	665.6
1338	1945.9	1342.1	662.3	1339	2000.7	1316.4	662.6	1340	1966.4	1283.4	665.3
1341	2007.8	1388.6	658.2	1342	1960.1	1400.7	658.6	1343	1641.2	1546.6	657.5
1344	1590.7	1564.4	657.6	1345	1694.3	1529.5	657.2	1346	1749.7	1512.8	656.9
1347	1806.2	1496.0	656.6	1348	1662.2	1601.9	653.7	1349	1613.6	1619.5	653.8
1350	1714.2	1583.9	653.6	1351	1767.6	1566.3	653.4	1352	1822.0	1548.9	653.1
1353	1683.2	1655.9	650.1	1354	1636.3	1673.6	650.1	1355	1734.5	1636.5	650.0
1356	1786.1	1618.0	649.9	1357	1838.7	1599.3	649.8	1358	1703.2	1709.3	646.5
1359	1659.3	1727.8	646.4	1360	1754.9	1687.6	646.6	1361	1805.4	1667.5	646.6
1362	1856.1	1647.6	646.6	1363	1861.1	1481.0	656.2	1364	1914.9	1468.1	655.7
1365	1875.4	1533.1	652.8	1366	1926.6	1519.6	652.4	1367	1890.5	1582.1	649.6
1368	1940.3	1565.8	649.4	1369	1906.3	1629.4	646.5	1370	1955.1	1610.3	646.4
1371	1967.1	1458.2	655.1	1372	2011.4	1453.3	654.3	1373	1973.7	1511.2	651.8
1374	2012.5	1515.9	650.6	1375	1973.3	1553.2	649.4	1376	2005.9	1582.5	646.9
1377	1800.8	1785.6	639.8	1378	1846.3	1757.1	640.4	1379	1869.1	1785.8	638.2
1380	1837.0	1802.4	637.9	1381	1842.1	1831.3	636.1	1382	1794.8	1834.1	637.1
1383	1884.6	1814.0	636.2	1384	1776.4	1737.3	643.2	1385	1824.9	1716.1	643.3
1386	1908.3	1769.1	638.2	1387	1927.6	1794.0	636.3	1388	1890.5	1735.4	640.6
1389	1873.7	1694.2	643.4	1390	1726.9	1838.1	638.4	1391	1687.1	1782.8	642.6
1392	1726.4	1758.7	643.1	1393	1751.0	1794.4	640.4	1394	1966.6	1663.4	643.1
1395	2011.8	1651.1	642.7	1396	1972.2	1714.5	639.9	1397	2016.4	1709.1	639.2
1398	1921.9	1677.1	643.3	1399	1932.6	1720.5	640.5	1400	2017.6	1753.1	636.6
1401	1973.3	1764.8	637.0	1402	1938.1	1751.5	638.6	1403	1349.8	950.2	699.1
1404	1568.2	1636.6	653.9	1405	1589.7	1690.8	650.2	1406	820.7	2311.1	328.0
1407	788.2	2324.1	328.0	1408	775.2	2291.5	328.0	1409	807.8	2278.6	328.0
1410	872.8	2252.8	328.0	1411	891.9	2282.9	328.0	1412	937.9	2226.9	328.0
1413	963.1	2254.6	328.0	1414	1010.6	2198.0	328.0	1415	1034.3	2226.3	328.0
1416	1083.4	2169.1	328.0	1417	1105.5	2198.0	328.0	1418	1156.1	2140.2	328.0
1419	1176.7	2169.7	328.0	1420	1228.9	2111.4	328.0	1421	1247.9	2141.4	328.0
1422	1301.6	2082.5	328.0	1423	1319.1	2113.2	328.0	1424	1374.4	2053.6	328.0
1425	1390.4	2084.9	328.0	1426	1447.1	2024.7	328.0	1427	1461.6	2056.6	328.0
1428	1519.8	1995.8	328.0	1429	1532.8	2028.3	328.0	1430	992.5	2135.3	328.0
1431	913.9	2166.5	328.0	1432	1069.3	2104.8	328.0	1433	1139.0	2077.1	328.0
1434	1206.9	2050.1	328.0	1435	1274.7	2023.2	328.0	1436	1344.0	1995.7	328.0
1437	1419.2	1965.8	328.0	1438	1495.9	1935.4	328.0	1439	976.1	2071.9	328.0
1440	889.9	2106.1	328.0	1447	866.4	1656.9	328.0	1448	798.7	1682.2	328.0
1449	772.8	1615.9	328.0	1450	839.9	1587.6	328.0	1451	937.1	1631.4	328.0
1452	910.4	1560.1	328.0	1453	1012.7	1604.3	328.0	1454	982.2	1531.9	328.0
1455	893.9	1725.3	328.0	1456	825.1	1747.4	328.0	1457	965.0	1702.6	328.0
1458	1036.6	1679.8	328.0	1459	922.4	1792.7	328.0	1460	851.4	1812.4	328.0
1461	995.8	1771.1	328.0	1462	1071.8	1751.2	328.0	1463	953.0	1856.0	328.0
1464	879.6	1876.4	328.0	1465	1025.9	1834.2	328.0	1466	1098.6	1813.4	328.0
1467	984.3	1920.0	328.0	1468	909.0	1944.0	328.0	1469	1056.3	1896.2	328.0
1470	1126.4	1873.3	328.0	1471	1019.2	1982.0	328.0	1472	941.2	2009.7	328.0
1473	1088.6	1956.1	328.0	1474	1155.4	1931.5	328.0	1475	1287.7	1691.9	328.0
1476	1332.0	1668.4	328.0	1477	1357.1	1719.0	328.0	1478	1319.0	1734.7	328.0
1479	1246.7	1718.3	328.0	1480	1277.4	1758.7	328.0	1481	1249.3	1646.5	328.0
1482	1291.1	1616.1	328.0	1483	1206.6	1679.3	328.0	1484	1209.5	1599.7	328.0
1485	1240.1	1568.1	328.0	1486	1168.5	1628.9	328.0	1487	1156.6	1725.5	328.0
1488	1115.4	1651.8	328.0	1489	1213.9	1743.0	328.0	1490	1231.0	1782.2	328.0
1491	1170.4	1793.7	328.0	1492	1312.6	1799.3	328.0	1493	1364.5	1835.4	328.0
1494	1289.0	1879.2	328.0	1495	1261.8	1832.8	328.0	1496	1335.0	1768.2	328.0
1497	1373.5	1770.7	328.0	1498	1195.1	1852.2	328.0	1499	1221.5	1907.0	328.0
1500	1100.7	1574.2	328.0	1501	1052.1	1499.4	328.0	1502	1113.6	1457.0	328.0
1503	1174.8	1524.5	328.0	1504	1177.1	1570.3	328.0	1505	1148.5	1590.8	328.0
1506	811.6	1517.5	328.0	1507	745.0	1546.9	328.0	1508	721.4	1477.7	328.0
1509	791.1	1447.9	328.0	1510	882.4	1489.3	328.0	1511	865.2	1421.5	328.0
1512	954.5	1463.9	328.0	1513	943.7	1398.8	328.0	1514	1039.1	1388.1	328.0
1515	1015.2	1450.5	328.0	1516	861.6	2034.9	328.0	1517	833.3	1963.6	328.0
1518	1333.4	1590.0	328.0	1519	1285.2	1532.0	328.0	1520	1236.9	1474.0	328.0
1521	1188.7	1416.1	328.0	1522	1131.1	1346.9	328.0	1523	989.1	1292.9	328.0
1524	916.1	1321.9	328.0	1525	843.2	1350.8	328.0	1526	770.3	1379.8	328.0
1527	697.3	1408.8	328.0	1528	624.4	1437.7	328.0	1529	652.1	1507.5	328.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1530	679.8	1577.2	328.0	1536	1156.7	1212.1	328.0	1537	1172.4	1294.2	328.0
1538	1114.5	1252.1	328.0	1539	1109.1	1198.2	328.0	1540	1103.0	1147.8	328.0
1541	1136.4	1145.2	328.0	1542	1265.2	1450.7	328.0	1543	1330.5	1561.2	328.0
1544	1222.9	1379.4	328.0	1545	445.8	1462.1	328.0	1546	405.9	1361.6	328.0
1547	438.4	1348.7	328.0	1548	478.3	1449.2	328.0	1549	519.6	1647.9	328.0
1550	480.5	1549.4	328.0	1551	513.0	1536.5	328.0	1552	552.1	1635.0	328.0
1553	604.5	1861.7	328.0	1554	583.8	1809.7	328.0	1557	659.9	2001.1	328.0
1558	639.2	1949.1	328.0	1559	671.7	1936.1	328.0	1560	692.4	1988.2	328.0
1561	679.9	1795.0	328.0	1562	658.4	1828.2	328.0	1563	635.8	1792.5	328.0
1564	651.0	1776.7	328.0	1565	635.4	1737.7	328.0	1566	663.4	1731.6	328.0
1567	616.5	1751.7	328.0	1568	581.7	1721.6	328.0	1569	610.1	1689.6	328.0
1570	640.7	1672.1	328.0	1571	697.1	1720.4	328.0	1572	719.1	1782.4	328.0
1573	673.6	1658.8	328.0	1574	707.9	1856.1	328.0	1575	728.7	1910.0	328.0
1576	700.1	1923.2	328.0	1577	680.0	1875.2	328.0	1578	742.8	1843.8	328.0
1579	762.7	1904.1	328.0	1580	582.4	1619.6	328.0	1581	615.1	1607.2	328.0
1582	647.6	1593.0	328.0	1583	537.7	1402.1	328.0	1584	599.8	1352.4	328.0
1585	618.9	1396.0	328.0	1586	577.7	1432.6	328.0	1587	557.4	1460.5	328.0
1588	529.2	1456.6	328.0	1589	666.4	1317.9	328.0	1590	684.0	1364.5	328.0
1591	597.0	1471.7	328.0	1592	570.4	1493.5	328.0	1593	537.8	1497.4	328.0
1594	621.5	1528.1	328.0	1595	589.4	1544.4	328.0	1596	553.2	1549.0	328.0
1597	735.4	1289.1	328.0	1598	753.3	1335.5	328.0	1599	499.1	1490.4	328.0
1600	501.7	1465.5	328.0	1601	798.4	2037.5	328.0	1602	809.4	2109.2	328.0
1603	761.7	2073.6	328.0	1604	753.2	2033.3	328.0	1605	739.7	1993.2	328.0
1606	774.9	1969.4	328.0	1607	718.1	1963.3	328.0	1608	740.2	1948.7	328.0
1609	713.7	2028.5	328.0	1610	714.6	2003.9	328.0	1611	879.7	1238.1	328.0
1612	964.9	1221.2	328.0	1613	948.9	1266.2	328.0	1614	892.7	1284.5	328.0
1615	807.1	1263.1	328.0	1616	824.1	1308.8	328.0	1617	507.7	1321.2	328.0
1618	577.0	1293.6	328.0	1619	551.7	1728.8	328.0	1620	652.9	1891.8	328.0
1621	621.9	1905.4	328.0	1622	694.6	2088.5	328.0	1623	727.1	2075.5	328.0
1624	754.0	2143.2	328.0	1625	780.9	2210.9	328.0	1626	844.1	2185.2	328.0
1627	1007.2	1178.0	328.0	1628	992.7	1128.5	328.0	1629	923.4	1156.0	328.0
1630	854.1	1183.5	328.0	1631	784.8	1211.1	328.0	1632	715.6	1238.6	328.0
1633	646.3	1266.1	328.0	1634	721.5	2156.2	328.0	1635	748.4	2223.8	328.0
1636	1062.0	1263.9	215.0	1637	1467.0	1862.7	511.4	1638	1446.3	1810.5	519.1
1639	1062.0	1263.9	58.3	1640	1403.2	1702.0	698.1	1641	1062.0	1263.9	136.7
1642	1471.5	1874.1	454.1	1643	1469.3	1868.5	576.9	1646	1425.3	1757.6	695.7
1647	1424.8	1756.5	742.2	1648	1285.2	1532.0	232.2	1649	1285.2	1532.0	143.9
1650	1285.2	1532.0	60.7	1651	1333.4	1590.0	229.1	1652	1333.4	1590.0	142.1
1653	1333.4	1590.0	60.1	1660	1993.9	1052.1	62.0	1661	2019.6	1124.7	58.3
1662	1968.2	979.6	237.6	1663	1968.2	979.6	150.3	1664	1968.2	979.6	64.8
1665	1495.1	1933.4	573.6	1666	1519.8	1995.8	572.8	1667	1402.7	1700.9	742.9
1669	1494.4	1931.8	513.4	1670	1519.8	1995.8	511.6	1671	1496.0	1935.7	452.9
1672	879.8	2229.7	635.2	1673	1496.3	1936.4	390.9	1674	1519.8	1995.8	450.4
1675	1422.2	1750.0	546.9	1676	1446.3	1810.5	455.4	1677	1403.0	1701.6	652.6
1678	1519.8	1995.8	389.2	1679	1402.5	1700.5	601.2	1680	1446.3	1810.5	391.7
1681	438.4	1348.7	600.0	1682	478.3	1449.2	600.0	1685	616.4	1796.7	600.0
1686	637.0	1848.8	600.0	1687	671.7	1936.1	600.0	1689	780.9	2211.0	391.3
1690	807.8	2278.6	389.2	1691	754.0	2143.3	393.6	1692	727.1	2075.5	396.0
1693	780.9	2211.0	454.5	1694	807.8	2278.6	450.4	1695	754.0	2143.4	459.0
1696	727.1	2075.5	464.0	1697	781.0	2211.2	517.2	1698	807.8	2278.6	511.6
1699	754.1	2143.5	523.7	1700	727.1	2075.5	532.0	1701	781.1	2211.4	578.8
1702	807.8	2278.6	572.8	1703	754.3	2143.9	586.4	1705	671.7	1936.1	418.7
1706	692.4	1988.2	418.7	1707	671.7	1936.1	509.3	1708	692.4	1988.2	509.3
1711	616.4	1796.7	509.3	1712	637.0	1848.8	509.3	1714	513.0	1536.5	418.7
1715	552.1	1635.0	418.7	1718	438.4	1348.7	396.0	1719	478.3	1449.2	396.0
1720	438.4	1348.7	464.0	1721	478.3	1449.2	464.0	1722	438.4	1348.7	532.0
1723	478.3	1449.2	532.0	1724	1448.3	2024.2	572.8	1725	1448.0	2024.3	511.6
1726	1447.7	2024.4	450.4	1727	1447.4	2024.5	389.2	1728	1471.9	1875.0	395.1
1729	1376.2	2052.8	511.6	1730	1375.6	2053.1	450.4	1731	1375.0	2053.3	389.2
1732	1305.3	2081.0	572.8	1733	1304.4	2081.4	511.6	1734	1303.5	2081.7	450.4
1735	1302.5	2082.1	389.2	1736	1233.8	2109.4	572.8	1737	1232.6	2109.9	511.6
1738	1231.4	2110.4	450.4	1739	1230.1	2110.9	389.2	1740	1162.3	2137.8	572.8
1741	1160.8	2138.4	511.6	1742	1159.3	2139.0	450.4	1743	1157.7	2139.6	389.2
1744	1090.9	2166.1	572.8	1745	1089.2	2166.8	511.6	1746	1087.5	2167.5	450.4
1747	1085.5	2168.3	389.2	1748	1403.0	1701.7	538.2	1749	1018.0	2195.1	511.6
1750	1016.1	2195.9	450.4	1751	1013.7	2196.8	389.2	1752	1442.1	1799.9	231.3
1753	947.3	2223.2	511.6	1754	1442.6	1801.2	327.9	1755	942.9	2224.9	389.2
1756	1409.8	1718.8	477.8	1757	877.3	2251.0	511.6	1759	874.9	2251.9	389.2

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1760	776.9	1214.2	474.8	1761	710.3	1240.7	476.1	1762	642.4	1267.6	475.7
1763	574.2	1294.7	472.6	1764	1093.8	1088.4	474.0	1765	897.8	1166.2	622.0
1766	832.2	1192.2	621.9	1767	766.2	1218.5	623.6	1768	700.1	1244.7	624.4
1769	982.7	1132.5	399.8	1770	633.6	1271.2	624.3	1771	916.4	1158.8	399.9
1772	568.5	1297.0	620.2	1773	848.9	1185.6	400.1	1774	503.9	1322.6	613.8
1775	782.1	1212.2	401.3	1776	714.7	1238.9	402.2	1777	645.4	1266.5	401.9
1778	505.2	1322.1	539.8	1779	576.1	1294.0	400.3	1780	505.3	1322.1	467.6
1781	837.7	1190.1	545.4	1782	843.1	1187.9	471.9	1783	506.6	1321.6	398.4
1784	903.6	1163.9	546.9	1785	771.4	1216.4	548.9	1786	705.0	1242.8	550.9
1787	636.9	1269.8	550.9	1788	962.2	1140.6	621.7	1789	968.1	1138.3	547.1
1790	974.6	1135.7	473.4	1791	909.7	1161.5	472.9	1792	1025.9	1115.3	622.2
1793	1030.9	1113.3	547.9	1794	1036.8	1111.0	474.2	1795	1045.4	1107.6	401.0
1796	1088.5	1090.4	622.7	1797	1091.4	1089.3	548.6	1798	571.3	1295.9	545.5
1800	1150.5	1065.8	623.2	1801	1150.5	1065.8	549.4	1802	1150.5	1065.8	475.6
1804	1487.5	1794.2	391.6	1805	1487.5	1794.2	328.0	1806	1487.5	1794.2	455.2
1807	1487.5	1794.2	518.2	1810	1487.5	1794.2	691.6	1811	1446.3	1810.5	694.4
1812	1487.5	1794.2	741.3	1813	1446.3	1810.5	742.2	1814	1528.8	1777.8	391.6
1815	1528.8	1777.8	328.0	1816	1528.8	1777.8	455.1	1817	1528.8	1777.8	517.9
1820	1528.8	1777.8	690.7	1821	1528.8	1777.8	741.0	1822	1570.0	1761.4	391.6
1823	1570.0	1761.4	328.0	1824	1570.0	1761.4	455.2	1825	1570.0	1761.4	518.2
1826	1570.0	1761.4	580.0	1827	1570.0	1761.4	639.1	1828	1570.0	1761.4	691.6
1829	1570.0	1761.4	741.3	1830	1611.2	1745.0	694.4	1831	1611.2	1745.0	742.2
1834	1589.7	1690.8	395.2	1835	1568.2	1636.6	469.4	1837	1589.7	1690.8	461.8
1838	1568.2	1636.6	537.1	1840	1589.7	1690.8	526.9	1841	1568.2	1636.6	596.7
1842	1546.6	1582.4	606.3	1843	1589.7	1690.8	589.2	1844	1568.2	1636.6	699.3
1845	1546.6	1582.4	701.7	1846	1589.7	1690.8	696.8	1847	1568.2	1636.6	744.6
1848	1546.6	1582.4	745.9	1849	1589.7	1690.8	742.2	1850	1381.7	1647.9	606.3
1851	1442.9	1623.6	611.4	1852	1381.7	1647.9	555.0	1853	1422.6	1631.7	555.0
1856	1422.6	1631.7	479.3	1857	1381.7	1647.9	479.3	1858	1526.4	1590.4	606.3
1860	1464.8	1614.9	632.8	1861	1497.7	1601.8	631.9	1864	1422.8	1631.6	701.7
1865	1381.7	1647.9	701.7	1866	1464.0	1615.2	701.7	1867	1505.3	1598.8	701.7
1868	1422.9	1631.5	745.9	1869	1381.7	1647.9	745.9	1870	1464.1	1615.2	745.9
1871	1505.4	1598.8	745.9	1872	1412.9	1726.5	406.2	1873	1812.0	1879.7	246.0
1874	1875.5	1854.5	493.7	1875	1412.3	1725.1	225.1	1876	1411.2	1722.2	137.5
1877	1407.5	1713.0	54.0	1878	1425.1	1757.3	596.5	1879	1181.8	1407.9	234.3
1880	1234.5	1471.2	235.3	1881	1233.4	1469.8	147.4	1882	1179.7	1405.3	146.7
1883	1123.1	1337.3	60.6	1884	1506.2	1598.4	215.0	1886	1422.6	1631.7	58.3
1888	1464.4	1615.1	215.0	1889	1506.2	1598.4	58.3	1890	1506.2	1598.4	136.7
1891	1570.0	1761.4	241.0	1892	1528.8	1777.8	241.0	1893	1487.5	1794.2	241.0
1894	1570.0	1761.4	154.0	1895	1528.8	1777.8	154.0	1896	1487.5	1794.2	154.0
1897	1570.0	1761.4	67.0	1898	1528.8	1777.8	67.0	1899	1487.5	1794.2	67.0
1900	2058.1	1732.0	190.0	1901	2058.1	1732.0	270.0	1903	2058.1	1682.0	190.0
1904	2058.1	1782.0	190.0	1905	2058.1	1782.0	270.0	1906	2058.1	1317.8	69.8
1907	2058.1	1233.0	58.3	1908	2058.1	1323.4	159.9	1909	2058.1	1233.0	136.7
1910	2058.1	1325.0	243.2	1913	2058.1	1418.0	270.0	1916	2058.1	1568.8	84.7
1917	2058.1	1594.0	190.0	1918	2058.1	1648.1	84.9	1919	2058.1	1716.4	85.0
1920	2058.1	1782.0	85.0	1921	2058.1	1484.0	270.0	1922	2058.1	1550.0	270.0
1924	1122.3	1336.4	142.5	1925	1181.3	1407.2	63.1	1926	1747.4	1905.4	68.5
1927	1124.1	1338.5	228.8	1928	1810.6	1880.3	158.3	1929	1810.0	1880.5	70.0
1930	1875.2	1854.6	246.0	1931	1873.7	1855.2	160.9	1932	1233.9	1470.4	63.3
1933	1938.7	1829.4	249.0	1934	1936.3	1830.4	164.8	1935	1934.8	1830.9	74.1
1936	1998.9	1805.5	255.2	1937	1997.5	1806.0	172.4	1938	1996.6	1806.4	78.2
1941	1748.5	1905.0	156.3	1942	1874.8	1854.8	413.1	1943	1913.2	1839.5	424.0
1945	889.9	2106.1	241.0	1947	889.9	2106.1	154.0	1948	875.6	2251.7	450.7
1949	889.9	2106.1	67.0	1950	1377.1	2052.5	572.8	1951	948.3	2222.8	572.6
1953	945.0	2224.1	450.5	1956	877.4	2251.0	572.4	1958	1019.6	2194.5	572.8
1959	1840.3	1868.5	471.9	1965	1062.0	1196.5	69.7	1966	624.4	1437.7	241.0
1967	1749.8	1904.4	244.0	1968	624.4	1437.7	154.0	1969	1872.6	1855.7	70.4
1971	652.1	1507.5	158.8	1972	1062.0	1183.0	154.0	1973	1062.0	1179.9	243.7
1976	740.0	1728.8	100.0	1977	772.5	1810.6	100.0	1979	833.3	1963.6	246.7
1983	861.6	2034.9	243.6	1984	861.6	2034.9	158.5	1985	861.6	2034.9	71.2
1986	697.3	1408.8	240.1	1987	770.3	1379.8	239.1	1988	843.2	1350.8	237.9
1989	916.1	1321.9	235.7	1990	989.1	1292.9	230.4	1991	697.3	1408.8	152.7
1992	770.3	1379.8	151.4	1993	843.2	1350.8	149.9	1994	916.1	1321.9	147.7
1995	989.1	1292.9	143.7	1997	770.3	1379.8	65.3	1998	843.2	1350.8	64.3
1999	916.1	1321.9	63.0	2000	989.1	1292.9	61.1	2001	1153.4	1169.3	-20.0
2002	1346.6	1181.4	-20.0	2003	1149.9	1474.4	-20.0	2004	1128.6	1292.2	-20.0
2005	1187.2	1251.2	-20.0	2006	1253.4	1255.6	-20.0	2007	1224.8	1388.4	-20.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
2008	1262.4	1194.9	-20.0	2009	1039.4	955.7	-20.0	2010	1378.8	1139.8	687.4
2011	1913.0	962.9	-20.0	2012	1225.1	1112.1	-20.0	2013	1196.1	1030.3	-20.0
2014	979.4	1222.7	-20.0	2015	1913.1	1009.5	-20.0	2016	884.5	2164.1	-20.0
2017	1532.2	1937.6	-20.0	2018	933.4	1607.9	-20.0	2019	824.1	1304.9	-20.0
2020	1436.8	1695.6	-20.0	2021	1263.6	1346.0	-20.0	2022	995.7	934.6	-20.0
2023	943.3	2142.1	-20.0	2024	888.5	1933.3	-20.0	2025	1004.2	1347.5	-20.0
2026	1283.1	1802.8	-20.0	2027	440.2	1076.8	-20.0	2028	857.9	1882.0	-20.0
2029	1634.6	922.6	-20.0	2030	991.5	1080.1	-20.0	2031	1969.1	1626.3	-20.0
2032	576.2	1245.1	-20.0	2033	1732.0	1287.4	-20.0	2034	1862.6	1301.6	-20.0
2035	1208.1	2043.4	-20.0	2036	1463.2	1487.0	-20.0	2037	1885.6	1749.2	-20.0
2038	1325.0	1212.5	-20.0	2039	1184.2	1318.9	-20.0	2040	1692.3	1848.1	-20.0
2041	1363.9	1019.1	-20.0	2042	1373.8	1252.5	-20.0	2043	1456.4	1707.2	328.0
2044	1531.5	1674.7	328.0	2045	967.5	1339.9	328.0	2046	1494.3	1693.9	328.0
2047	1475.1	1655.7	328.0	2048	1231.5	1329.8	328.0	2049	1518.1	1639.1	328.0
2050	1187.2	1341.0	328.0	2051	1553.7	1719.1	328.0	2052	1512.4	1736.5	328.0
2053	1470.7	1751.8	328.0	2054	1345.8	1532.8	328.0	2055	1204.8	1289.2	328.0
2056	2016.5	1157.3	328.0	2057	1438.1	1670.7	328.0	2058	1044.9	1317.0	328.0
2059	904.5	1410.1	328.0	2060	1280.3	1437.0	328.0	2061	1910.5	1840.6	471.7
2062	1394.7	1383.7	328.0	2063	1297.2	1479.9	328.0	2064	1284.9	1393.1	328.0
2065	1098.5	1300.4	328.0	2066	1022.4	1247.2	328.0	2068	1334.2	1392.3	328.0
2069	1234.3	1419.6	328.0	2070	1251.5	1403.3	328.0	2071	1376.4	1191.3	328.0
2072	1108.7	1534.2	328.0	2073	1385.6	1531.4	328.0	2074	1423.2	951.7	328.0
2075	1413.4	1168.1	328.0	2076	1054.2	1546.8	328.0	2077	1315.3	1188.6	328.0
2078	1454.3	1140.6	328.0	2079	1910.0	1840.8	525.9	2080	1871.7	1856.0	533.3
2081	652.5	1508.4	244.1	2083	1027.4	907.1	328.0	2085	613.4	1428.8	688.2
2086	1399.0	1206.7	683.0	2087	1800.1	1195.1	674.3	2088	810.7	2241.1	636.1

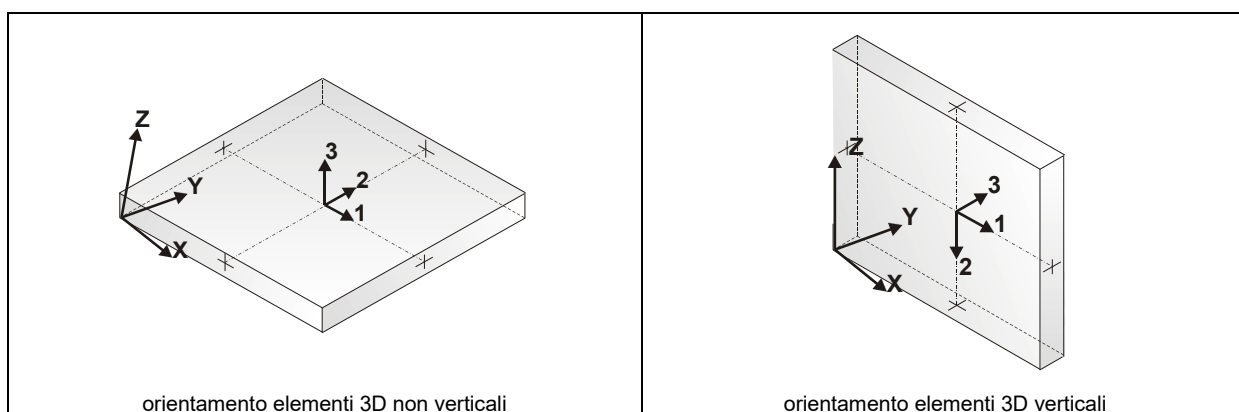
MODELLAZIONE STRUTTURA: ELEMENTI SHELL

LEGENDA TABELLA DATI SHELL

Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.

Ogni elemento shell è individuato dai nodi I, J, K, L (L=I per gli elementi a tre nodi).

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: <i>Guscio</i> (elemento guscio in elevazione non verticale) <i>Guscio fond.</i> (elemento guscio su suolo elastico) <i>Setto</i> (elemento guscio in elevazione verticale) <i>Membrana</i> (elemento guscio con comportamento membranale)
Nodo I (J, K, L)	numero del nodo I (J, K, L)
Mat.	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Con 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 Maggio 2011, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
8	MENSOLE CON ELEMENTI PLATE E MATERIALE ORTOTROPO
10	PIASTRA CON ELEMENTI PLATE E MATERIALE ORTOTROPO
21	DRILLING
25	TENSIONI DI ELEMENTI PLATE
31	REALIZZAZIONE DI MESH PIANA SU GEOMETRIA CON PUNTI FISSI IMPORTATA DA FILE .DXF
32	REALIZZAZIONE DI MESH PIANA SU GEOMETRIA CON SEGMENTI E FORI INTERNI IMPORTATA DA FILE .DXF
33	REALIZZAZIONE DI MESH PIANE SU GEOMETRIE COSTRUITE IN PRO_SAP
34	ANALISI DI BUCKLING DI PIASTRA ISOTROPA
35	ANALISI DI BUCKLING DI UN CILINDRO COMPRESSO INCASTRATO ALLA BASE
36	ANALISI DI PARETI FORATE
37	BIMETALLIC STRIP (NAFEMS EXERCISE 6)
38	ANALISI ELASTICA DI PIASTRA CON INTAGLIO CIRCOLARE (FLAT BAR WITH EDGE NOTCHES-NAFEMS EXERCISE 9)
39	PLATEA NERVATA
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
117	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
118	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
1	Guscio fond.	298	380	323	300	4	45.0	3.00	1.00
2	Guscio fond.	134	156	177	135	4	45.0	3.00	1.00
3	Guscio fond.	258	166	35	36	4	45.0	3.00	1.00
4	Guscio fond.	2016	2023	425	410	4	45.0	3.00	1.00
5	Guscio fond.	366	182	181	180	4	45.0	3.00	1.00
6	Guscio fond.	416	428	417	414	4	45.0	3.00	1.00
7	Guscio fond.	397	387	2016	409	4	45.0	3.00	1.00
8	Guscio fond.	343	129	128	130	4	45.0	3.00	1.00
9	Guscio fond.	357	344	291	338	4	45.0	3.00	1.00
10	Guscio fond.	420	418	422	419	4	45.0	3.00	1.00
11	Guscio fond.	10	12	11	9	4	45.0	3.00	1.00
12	Guscio fond.	172	174	376	175	4	45.0	3.00	1.00
13	Guscio fond.	384	396	383	29	4	45.0	3.00	1.00
14	Guscio fond.	310	312	313	311	4	45.0	3.00	1.00
15	Guscio fond.	245	309	310	302	4	45.0	3.00	1.00
16	Guscio fond.	403	355	356	404	4	45.0	3.00	1.00
17	Guscio fond.	350	273	257	231	4	45.0	3.00	1.00
18	Guscio fond.	232	233	328	242	4	45.0	3.00	1.00
19	Guscio fond.	3	5	185	32	4	45.0	3.00	1.00
20	Guscio fond.	2018	292	293	291	4	45.0	3.00	1.00
21	Guscio fond.	230	229	272	271	4	45.0	3.00	1.00
22	Guscio fond.	425	420	419	426	4	45.0	3.00	1.00
23	Guscio fond.	281	278	277	351	4	45.0	3.00	1.00
24	Guscio fond.	199	203	204	2033	4	45.0	3.00	1.00
25	Guscio fond.	311	313	281	331	4	45.0	3.00	1.00
26	Guscio fond.	138	184	134	136	4	45.0	3.00	1.00
27	Guscio fond.	83	79	91	92	4	45.0	3.00	1.00
28	Guscio fond.	77	139	137	82	4	45.0	3.00	1.00
29	Guscio fond.	322	324	236	235	4	45.0	3.00	1.00
30	Guscio fond.	342	317	219	307	4	45.0	3.00	1.00
31	Guscio fond.	11	13	221	34	4	45.0	3.00	1.00
32	Guscio fond.	9	11	34	149	4	45.0	3.00	1.00
33	Guscio fond.	222	109	106	141	4	45.0	3.00	1.00
34	Guscio fond.	105	110	108	109	4	45.0	3.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
35	Guscio fond.	2033	204	217	200	4	45.0	3.00	1.00
36	Guscio fond.	141	106	93	391	4	45.0	3.00	1.00
37	Guscio fond.	406	362	407	408	4	45.0	3.00	1.00
38	Guscio fond.	287	2006	223	2021	4	45.0	3.00	1.00
39	Guscio fond.	313	305	2003	281	4	45.0	3.00	1.00
40	Guscio fond.	315	252	253	254	4	45.0	3.00	1.00
41	Guscio fond.	260	2007	36	259	4	45.0	3.00	1.00
42	Guscio fond.	278	276	273	277	4	45.0	3.00	1.00
43	Guscio fond.	359	352	360	387	4	45.0	3.00	1.00
44	Guscio fond.	398	359	387	397	4	45.0	3.00	1.00
45	Guscio fond.	270	299	264	2027	4	45.0	3.00	1.00
46	Guscio fond.	137	138	136	82	4	45.0	3.00	1.00
47	Guscio fond.	407	372	390	430	4	45.0	3.00	1.00
48	Guscio fond.	232	160	2014	233	4	45.0	3.00	1.00
49	Guscio fond.	193	197	192	120	4	45.0	3.00	1.00
50	Guscio fond.	368	361	203	199	4	45.0	3.00	1.00
51	Guscio fond.	204	202	2034	214	4	45.0	3.00	1.00
52	Guscio fond.	292	353	295	293	4	45.0	3.00	1.00
53	Guscio fond.	219	218	194	146	4	45.0	3.00	1.00
54	Guscio fond.	208	191	187	190	4	45.0	3.00	1.00
55	Guscio fond.	234	232	242	241	4	45.0	3.00	1.00
56	Guscio fond.	223	163	162	166	4	45.0	3.00	1.00
57	Guscio fond.	185	186	2013	171	4	45.0	3.00	1.00
58	Guscio fond.	167	284	2004	283	4	45.0	3.00	1.00
59	Guscio fond.	2030	152	151		4	45.0	3.00	1.00
60	Guscio fond.	179	377	435	437	4	45.0	3.00	1.00
61	Guscio fond.	195	198	197	193	4	45.0	3.00	1.00
62	Guscio fond.	190	187	189	207	4	45.0	3.00	1.00
63	Guscio fond.	20	22	23	21	4	45.0	3.00	1.00
64	Guscio fond.	303	304	354	344	4	45.0	3.00	1.00
65	Guscio fond.	356	357	338	378	4	45.0	3.00	1.00
66	Guscio fond.	393	373	355	403	4	45.0	3.00	1.00
67	Guscio fond.	18	20	21	19	4	45.0	3.00	1.00
68	Guscio fond.	160	151	167	2014	4	45.0	3.00	1.00
69	Guscio fond.	194	195	193	196	4	45.0	3.00	1.00
70	Guscio fond.	146	194	196	147	4	45.0	3.00	1.00
71	Guscio fond.	329	245	302	301	4	45.0	3.00	1.00
72	Guscio fond.	186	149	150	2013	4	45.0	3.00	1.00
73	Guscio fond.	184	155	156	134	4	45.0	3.00	1.00
74	Guscio fond.	92	91	408	388	4	45.0	3.00	1.00
75	Guscio fond.	360	375	418	420	4	45.0	3.00	1.00
76	Guscio fond.	352	176	375	360	4	45.0	3.00	1.00
77	Guscio fond.	227	321	224	226	4	45.0	3.00	1.00
78	Guscio fond.	203	201	202	204	4	45.0	3.00	1.00
79	Guscio fond.	323	325	324	322	4	45.0	3.00	1.00
80	Guscio fond.	15	17	318	249	4	45.0	3.00	1.00
81	Guscio fond.	260	259	280	2003	4	45.0	3.00	1.00
82	Guscio fond.	114	131	139	88	4	45.0	3.00	1.00
83	Guscio fond.	334	294	333	2028	4	45.0	3.00	1.00
84	Guscio fond.	139	131	138	137	4	45.0	3.00	1.00
85	Guscio fond.	130	128	127	212	4	45.0	3.00	1.00
86	Guscio fond.	302	310	311	304	4	45.0	3.00	1.00
87	Guscio fond.	361	225	201	203	4	45.0	3.00	1.00
88	Guscio fond.	285	260	2003	305	4	45.0	3.00	1.00
89	Guscio fond.	283	2004	285	306	4	45.0	3.00	1.00
90	Guscio fond.	136	134	135	133	4	45.0	3.00	1.00
91	Guscio fond.	399	358	359	398	4	45.0	3.00	1.00
92	Guscio fond.	405	378	337	402	4	45.0	3.00	1.00
93	Guscio fond.	154	185	171	169	4	45.0	3.00	1.00
94	Guscio fond.	264	235	238	330	4	45.0	3.00	1.00
95	Guscio fond.	301	302	304	303	4	45.0	3.00	1.00
96	Guscio fond.	272	374	416	415	4	45.0	3.00	1.00
97	Guscio fond.	423	415	427	424	4	45.0	3.00	1.00
98	Guscio fond.	204	214	369	217	4	45.0	3.00	1.00
99	Guscio fond.	145	146	147	148	4	45.0	3.00	1.00
100	Guscio fond.	430	390	432	431	4	45.0	3.00	1.00
101	Guscio fond.	201	365	266	202	4	45.0	3.00	1.00
102	Guscio fond.	365	267	268	266	4	45.0	3.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
103	Guscio fond.	188	109	222	2031	4	45.0	3.00	1.00
104	Guscio fond.	158	159	157	209	4	45.0	3.00	1.00
105	Guscio fond.	378	338	335	337	4	45.0	3.00	1.00
106	Guscio fond.	23	25	321	227	4	45.0	3.00	1.00
107	Guscio fond.	191	205	188	187	4	45.0	3.00	1.00
108	Guscio fond.	175	376	2035	421	4	45.0	3.00	1.00
109	Guscio fond.	373	329	301	355	4	45.0	3.00	1.00
110	Guscio fond.	182	367	364	181	4	45.0	3.00	1.00
111	Guscio fond.	240	124	125	123	4	45.0	3.00	1.00
112	Guscio fond.	211	296	270	126	4	45.0	3.00	1.00
113	Guscio fond.	347	345	365	346	4	45.0	3.00	1.00
114	Guscio fond.	347	348	370	345	4	45.0	3.00	1.00
115	Guscio fond.	198	199	2033	200	4	45.0	3.00	1.00
116	Guscio fond.	124	83	92	125	4	45.0	3.00	1.00
117	Guscio fond.	262	90	240	275	4	45.0	3.00	1.00
118	Guscio fond.	371	2027	264	330	4	45.0	3.00	1.00
119	Guscio fond.	376	271	423	2035	4	45.0	3.00	1.00
120	Guscio fond.	200	217	182	366	4	45.0	3.00	1.00
121	Guscio fond.	304	311	331	354	4	45.0	3.00	1.00
122	Guscio fond.	131	183	184	138	4	45.0	3.00	1.00
123	Guscio fond.	280	259	261	279	4	45.0	3.00	1.00
124	Guscio fond.	118	115	88	74	4	45.0	3.00	1.00
125	Guscio fond.	229	125	374	272	4	45.0	3.00	1.00
126	Guscio fond.	355	301	357	356	4	45.0	3.00	1.00
127	Guscio fond.	400	379	358	399	4	45.0	3.00	1.00
128	Guscio fond.	2017	430	431	429	4	45.0	3.00	1.00
129	Guscio fond.	2021	223	166	258	4	45.0	3.00	1.00
130	Guscio fond.	117	118	74	116	4	45.0	3.00	1.00
131	Guscio fond.	86	87	362	406	4	45.0	3.00	1.00
132	Guscio fond.	411	410	413	412	4	45.0	3.00	1.00
133	Guscio fond.	275	240	123	274	4	45.0	3.00	1.00
134	Guscio fond.	189	2031	222	140	4	45.0	3.00	1.00
135	Guscio fond.	276	274	257	273	4	45.0	3.00	1.00
136	Guscio fond.	112	111	115	2036	4	45.0	3.00	1.00
137	Guscio fond.	2	4	3	1	4	45.0	3.00	1.00
138	Guscio fond.	2022	1	2009	289	4	45.0	3.00	1.00
139	Guscio fond.	237	265	255	2032	4	45.0	3.00	1.00
140	Guscio fond.	292	351	277	353	4	45.0	3.00	1.00
141	Guscio fond.	111	132	131	114	4	45.0	3.00	1.00
142	Guscio fond.	256	161	90	262	4	45.0	3.00	1.00
143	Guscio fond.	155	143	178	156	4	45.0	3.00	1.00
144	Guscio fond.	143	2037	144	178	4	45.0	3.00	1.00
145	Guscio fond.	353	277	273	350	4	45.0	3.00	1.00
146	Guscio fond.	236	316	265	237	4	45.0	3.00	1.00
147	Guscio fond.	87	133	135	362	4	45.0	3.00	1.00
148	Guscio fond.	13	15	249	220	4	45.0	3.00	1.00
149	Guscio fond.	390	389	436	432	4	45.0	3.00	1.00
150	Guscio fond.	336	334	2028	379	4	45.0	3.00	1.00
151	Guscio fond.	279	275	274	276	4	45.0	3.00	1.00
152	Guscio fond.	18	19	2029	17	4	45.0	3.00	1.00
153	Guscio fond.	74	88	75	73	4	45.0	3.00	1.00
154	Guscio fond.	2009	31	154	289	4	45.0	3.00	1.00
155	Guscio fond.	296	300	299	270	4	45.0	3.00	1.00
156	Guscio fond.	217	369	367	182	4	45.0	3.00	1.00
157	Guscio fond.	180	181	183	131	4	45.0	3.00	1.00
158	Guscio fond.	2014	167	283	282	4	45.0	3.00	1.00
159	Guscio fond.	387	360	2023	2016	4	45.0	3.00	1.00
160	Guscio fond.	116	74	73	84	4	45.0	3.00	1.00
161	Guscio fond.	76	77	82	80	4	45.0	3.00	1.00
162	Guscio fond.	142	141	391	314	4	45.0	3.00	1.00
163	Guscio fond.	364	207	251	363	4	45.0	3.00	1.00
164	Guscio fond.	176	172	175	375	4	45.0	3.00	1.00
165	Guscio fond.	209	157	160	232	4	45.0	3.00	1.00
166	Guscio fond.	254	253	373	393	4	45.0	3.00	1.00
167	Guscio fond.	349	226	225	361	4	45.0	3.00	1.00
168	Guscio fond.	106	107	94	93	4	45.0	3.00	1.00
169	Guscio fond.	93	94	96	95	4	45.0	3.00	1.00
170	Guscio fond.	144	142	314	377	4	45.0	3.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
171	Guscio fond.	88	139	77	75	4	45.0	3.00	1.00
172	Guscio fond.	307	219	146	308	4	45.0	3.00	1.00
173	Guscio fond.	166	165	256	35	4	45.0	3.00	1.00
174	Guscio fond.	121	113	111	112	4	45.0	3.00	1.00
175	Guscio fond.	80	82	87	86	4	45.0	3.00	1.00
176	Guscio fond.	207	189	140	251	4	45.0	3.00	1.00
177	Guscio fond.	280	279	276	278	4	45.0	3.00	1.00
178	Guscio fond.	2011	29	2015		4	45.0	3.00	1.00
179	Guscio fond.	2015	29	348	347	4	45.0	3.00	1.00
180	Guscio fond.	215	102	103	206	4	45.0	3.00	1.00
181	Guscio fond.	2035	423	424	421	4	45.0	3.00	1.00
182	Guscio fond.	12	14	13	11	4	45.0	3.00	1.00
183	Guscio fond.	125	92	388	374	4	45.0	3.00	1.00
184	Guscio fond.	233	2014	282	328	4	45.0	3.00	1.00
185	Guscio fond.	151	168	167		4	45.0	3.00	1.00
186	Guscio fond.	268	98	102	215	4	45.0	3.00	1.00
187	Guscio fond.	293	295	247	294	4	45.0	3.00	1.00
188	Guscio fond.	256	117	116	161	4	45.0	3.00	1.00
189	Guscio fond.	102	101	104	103	4	45.0	3.00	1.00
190	Guscio fond.	428	2017	429	417	4	45.0	3.00	1.00
191	Guscio fond.	99	97	100	98	4	45.0	3.00	1.00
192	Guscio fond.	7	9	149	186	4	45.0	3.00	1.00
193	Guscio fond.	13	220	250	221	4	45.0	3.00	1.00
194	Guscio fond.	395	394	129	343	4	45.0	3.00	1.00
195	Guscio fond.	309	328	312	310	4	45.0	3.00	1.00
196	Guscio fond.	2026	123	125	229	4	45.0	3.00	1.00
197	Guscio fond.	348	386	385	370	4	45.0	3.00	1.00
198	Guscio fond.	267	99	98	268	4	45.0	3.00	1.00
199	Guscio fond.	344	354	2018	291	4	45.0	3.00	1.00
200	Guscio fond.	109	108	107	106	4	45.0	3.00	1.00
201	Guscio fond.	392	290	210	288	4	45.0	3.00	1.00
202	Guscio fond.	288	158	209	326	4	45.0	3.00	1.00
203	Guscio fond.	354	331	292	2018	4	45.0	3.00	1.00
204	Guscio fond.	2040	177	179	389	4	45.0	3.00	1.00
205	Guscio fond.	183	363	155	184	4	45.0	3.00	1.00
206	Guscio fond.	117	2036	115	118	4	45.0	3.00	1.00
207	Guscio fond.	375	175	421	418	4	45.0	3.00	1.00
208	Guscio fond.	154	169	168	151	4	45.0	3.00	1.00
209	Guscio fond.	169	170	2001	168	4	45.0	3.00	1.00
210	Guscio fond.	152	154	151		4	45.0	3.00	1.00
211	Guscio fond.	2038	2042	163	339	4	45.0	3.00	1.00
212	Guscio fond.	19	21	320	2029	4	45.0	3.00	1.00
213	Guscio fond.	115	111	114	88	4	45.0	3.00	1.00
214	Guscio fond.	165	2036	117	256	4	45.0	3.00	1.00
215	Guscio fond.	17	2029	320	318	4	45.0	3.00	1.00
216	Guscio fond.	338	291	293	335	4	45.0	3.00	1.00
217	Guscio fond.	2013	150	2012	170	4	45.0	3.00	1.00
218	Guscio fond.	249	318	317	342	4	45.0	3.00	1.00
219	Guscio fond.	31	185	154		4	45.0	3.00	1.00
220	Guscio fond.	35	256	262	261	4	45.0	3.00	1.00
221	Guscio fond.	317	349	218	219	4	45.0	3.00	1.00
222	Guscio fond.	178	144	377	179	4	45.0	3.00	1.00
223	Guscio fond.	331	281	351	292	4	45.0	3.00	1.00
224	Guscio fond.	170	2012	286	2001	4	45.0	3.00	1.00
225	Guscio fond.	246	173	172	176	4	45.0	3.00	1.00
226	Guscio fond.	126	270	2027	371	4	45.0	3.00	1.00
227	Guscio fond.	326	209	234	316	4	45.0	3.00	1.00
228	Guscio fond.	4	6	5	3	4	45.0	3.00	1.00
229	Guscio fond.	195	368	199	198	4	45.0	3.00	1.00
230	Guscio fond.	317	319	226	349	4	45.0	3.00	1.00
231	Guscio fond.	318	320	319	317	4	45.0	3.00	1.00
232	Guscio fond.	271	272	415	423	4	45.0	3.00	1.00
233	Guscio fond.	161	89	85	90	4	45.0	3.00	1.00
234	Guscio fond.	225	346	365	201	4	45.0	3.00	1.00
235	Guscio fond.	150	341	340	2012	4	45.0	3.00	1.00
236	Guscio fond.	382	7	186	185	4	45.0	3.00	1.00
237	Guscio fond.	164	119	122	162	4	45.0	3.00	1.00
238	Guscio fond.	218	368	195	194	4	45.0	3.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
239	Guscio fond.	14	16	15	13	4	45.0	3.00	1.00
240	Guscio fond.	149	34	33	150	4	45.0	3.00	1.00
241	Guscio fond.	129	211	126	128	4	45.0	3.00	1.00
242	Guscio fond.	36	35	261	259	4	45.0	3.00	1.00
243	Guscio fond.	226	224	346	225	4	45.0	3.00	1.00
244	Guscio fond.	73	75	76	81	4	45.0	3.00	1.00
245	Guscio fond.	297	298	300	296	4	45.0	3.00	1.00
246	Guscio fond.	213	215	206	216	4	45.0	3.00	1.00
247	Guscio fond.	377	314	434	435	4	45.0	3.00	1.00
248	Guscio fond.	289	154	152	159	4	45.0	3.00	1.00
249	Guscio fond.	269	297	296	211	4	45.0	3.00	1.00
250	Guscio fond.	202	266	213	2034	4	45.0	3.00	1.00
251	Guscio fond.	239	2032	255	252	4	45.0	3.00	1.00
252	Guscio fond.	265	241	244	255	4	45.0	3.00	1.00
253	Guscio fond.	8	10	9	7	4	45.0	3.00	1.00
254	Guscio fond.	2001	286	2005	284	4	45.0	3.00	1.00
255	Guscio fond.	340	341	308	2002	4	45.0	3.00	1.00
256	Guscio fond.	415	416	414	427	4	45.0	3.00	1.00
257	Guscio fond.	306	285	305	313	4	45.0	3.00	1.00
258	Guscio fond.	228	2026	229	230	4	45.0	3.00	1.00
259	Guscio fond.	2039	287	2007	260	4	45.0	3.00	1.00
260	Guscio fond.	308	146	145	2002	4	45.0	3.00	1.00
261	Guscio fond.	81	76	80	79	4	45.0	3.00	1.00
262	Guscio fond.	301	303	344	357	4	45.0	3.00	1.00
263	Guscio fond.	243	2019	309	245	4	45.0	3.00	1.00
264	Guscio fond.	210	2022	289	159	4	45.0	3.00	1.00
265	Guscio fond.	257	2026	228	231	4	45.0	3.00	1.00
266	Guscio fond.	34	221	2041	33	4	45.0	3.00	1.00
267	Guscio fond.	79	80	86	78	4	45.0	3.00	1.00
268	Guscio fond.	320	227	226	319	4	45.0	3.00	1.00
269	Guscio fond.	240	90	85	124	4	45.0	3.00	1.00
270	Guscio fond.	168	2001	284	167	4	45.0	3.00	1.00
271	Guscio fond.	29	383	386	348	4	45.0	3.00	1.00
272	Guscio fond.	238	237	2032	239	4	45.0	3.00	1.00
273	Guscio fond.	181	364	363	183	4	45.0	3.00	1.00
274	Guscio fond.	363	251	143	155	4	45.0	3.00	1.00
275	Guscio fond.	379	2028	2024	358	4	45.0	3.00	1.00
276	Guscio fond.	163	148	164	162	4	45.0	3.00	1.00
277	Guscio fond.	2004	2039	260	285	4	45.0	3.00	1.00
278	Guscio fond.	299	322	235	264	4	45.0	3.00	1.00
279	Guscio fond.	157	2030	151	160	4	45.0	3.00	1.00
280	Guscio fond.	220	249	342	250	4	45.0	3.00	1.00
281	Guscio fond.	121	120	192	113	4	45.0	3.00	1.00
282	Guscio fond.	140	222	141	142	4	45.0	3.00	1.00
283	Guscio fond.	192	180	131	132	4	45.0	3.00	1.00
284	Guscio fond.	224	2015	347	346	4	45.0	3.00	1.00
285	Guscio fond.	79	78	408	91	4	45.0	3.00	1.00
286	Guscio fond.	78	86	406	408	4	45.0	3.00	1.00
287	Guscio fond.	2003	280	278	281	4	45.0	3.00	1.00
288	Guscio fond.	261	262	275	279	4	45.0	3.00	1.00
289	Guscio fond.	284	2005	2039	2004	4	45.0	3.00	1.00
290	Guscio fond.	161	116	84	89	4	45.0	3.00	1.00
291	Guscio fond.	321	2011	2015	224	4	45.0	3.00	1.00
292	Guscio fond.	255	244	253	252	4	45.0	3.00	1.00
293	Guscio fond.	288	210	159	158	4	45.0	3.00	1.00
294	Guscio fond.	159	152	2030	157	4	45.0	3.00	1.00
295	Guscio fond.	197	366	180	192	4	45.0	3.00	1.00
296	Guscio fond.	198	200	366	197	4	45.0	3.00	1.00
297	Guscio fond.	388	408	2017	428	4	45.0	3.00	1.00
298	Guscio fond.	404	356	378	405	4	45.0	3.00	1.00
299	Guscio fond.	367	190	207	364	4	45.0	3.00	1.00
300	Guscio fond.	381	327	325	323	4	45.0	3.00	1.00
301	Guscio fond.	300	323	322	299	4	45.0	3.00	1.00
302	Guscio fond.	89	84	2020	85	4	45.0	3.00	1.00
303	Guscio fond.	325	288	326	324	4	45.0	3.00	1.00
304	Guscio fond.	345	370	267	365	4	45.0	3.00	1.00
305	Guscio fond.	98	100	101	102	4	45.0	3.00	1.00
306	Guscio fond.	28	384	27	25	4	45.0	3.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
307	Guscio fond.	282	283	306	2025	4	45.0	3.00	1.00
308	Guscio fond.	295	248	246	247	4	45.0	3.00	1.00
309	Guscio fond.	409	2016	410	411	4	45.0	3.00	1.00
310	Guscio fond.	128	126	371	127	4	45.0	3.00	1.00
311	Guscio fond.	263	239	252	315	4	45.0	3.00	1.00
312	Guscio fond.	418	421	424	422	4	45.0	3.00	1.00
313	Guscio fond.	337	335	334	336	4	45.0	3.00	1.00
314	Guscio fond.	235	236	237	238	4	45.0	3.00	1.00
315	Guscio fond.	333	332	352	2024	4	45.0	3.00	1.00
316	Guscio fond.	166	162	122	165	4	45.0	3.00	1.00
317	Guscio fond.	2034	213	216	214	4	45.0	3.00	1.00
318	Guscio fond.	401	336	379	400	4	45.0	3.00	1.00
319	Guscio fond.	221	250	557	2041	4	45.0	3.00	1.00
320	Guscio fond.	231	228	230	174	4	45.0	3.00	1.00
321	Guscio fond.	173	231	174	172	4	45.0	3.00	1.00
322	Guscio fond.	241	242	2019	243	4	45.0	3.00	1.00
323	Guscio fond.	113	192	132	111	4	45.0	3.00	1.00
324	Guscio fond.	2012	340	2008	286	4	45.0	3.00	1.00
325	Guscio fond.	391	93	95	433	4	45.0	3.00	1.00
326	Guscio fond.	84	73	81	2020	4	45.0	3.00	1.00
327	Guscio fond.	369	208	190	367	4	45.0	3.00	1.00
328	Guscio fond.	350	231	173	248	4	45.0	3.00	1.00
329	Guscio fond.	26	28	25	23	4	45.0	3.00	1.00
330	Guscio fond.	214	216	208	369	4	45.0	3.00	1.00
331	Guscio fond.	2005	2006	287	2039	4	45.0	3.00	1.00
332	Guscio fond.	2006	339	163	223	4	45.0	3.00	1.00
333	Guscio fond.	244	243	245	329	4	45.0	3.00	1.00
334	Guscio fond.	82	136	133	87	4	45.0	3.00	1.00
335	Guscio fond.	372	2040	389	390	4	45.0	3.00	1.00
336	Guscio fond.	218	349	361	368	4	45.0	3.00	1.00
337	Guscio fond.	253	244	329	373	4	45.0	3.00	1.00
338	Guscio fond.	286	2008	2006	2005	4	45.0	3.00	1.00
339	Guscio fond.	324	326	316	236	4	45.0	3.00	1.00
340	Guscio fond.	187	188	2031	189	4	45.0	3.00	1.00
341	Guscio fond.	2019	242	328	309	4	45.0	3.00	1.00
342	Guscio fond.	402	337	336	401	4	45.0	3.00	1.00
343	Guscio fond.	103	104	110	105	4	45.0	3.00	1.00
344	Guscio fond.	2025	306	313	312	4	45.0	3.00	1.00
345	Guscio fond.	196	193	119	164	4	45.0	3.00	1.00
346	Guscio fond.	408	407	430	2017	4	45.0	3.00	1.00
347	Guscio fond.	294	247	332	333	4	45.0	3.00	1.00
348	Guscio fond.	25	27	2011	321	4	45.0	3.00	1.00
349	Guscio fond.	2020	81	79	83	4	45.0	3.00	1.00
350	Guscio fond.	16	18	17	15	4	45.0	3.00	1.00
351	Guscio fond.	165	122	112	2036	4	45.0	3.00	1.00
352	Guscio fond.	374	388	428	416	4	45.0	3.00	1.00
353	Guscio fond.	362	2040	372	407	4	45.0	3.00	1.00
354	Guscio fond.	410	425	426	413	4	45.0	3.00	1.00
355	Guscio fond.	247	246	176	332	4	45.0	3.00	1.00
356	Guscio fond.	314	391	433	434	4	45.0	3.00	1.00
357	Guscio fond.	206	103	105	205	4	45.0	3.00	1.00
358	Guscio fond.	328	282	2025	312	4	45.0	3.00	1.00
359	Guscio fond.	174	230	271	376	4	45.0	3.00	1.00
360	Guscio fond.	330	238	239	263	4	45.0	3.00	1.00
361	Guscio fond.	85	2020	83	124	4	45.0	3.00	1.00
362	Guscio fond.	250	342	307	557	4	45.0	3.00	1.00
363	Guscio fond.	287	2021	258	2007	4	45.0	3.00	1.00
364	Guscio fond.	327	392	288	325	4	45.0	3.00	1.00
365	Guscio fond.	251	140	2037	143	4	45.0	3.00	1.00
366	Guscio fond.	389	179	437	436	4	45.0	3.00	1.00
367	Guscio fond.	341	557	307	308	4	45.0	3.00	1.00
368	Guscio fond.	33	2041	341	150	4	45.0	3.00	1.00
369	Guscio fond.	156	178	179	177	4	45.0	3.00	1.00
370	Guscio fond.	1	3	32	2009	4	45.0	3.00	1.00
371	Guscio fond.	2037	140	142	144	4	45.0	3.00	1.00
372	Guscio fond.	290	2	2022	210	4	45.0	3.00	1.00
373	Guscio fond.	2008	2038	339	2006	4	45.0	3.00	1.00
374	Guscio fond.	148	147	196	164	4	45.0	3.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
375	Guscio fond.	122	119	121	112	4	45.0	3.00	1.00
376	Guscio fond.	394	269	211	129	4	45.0	3.00	1.00
377	Guscio fond.	119	193	120	121	4	45.0	3.00	1.00
378	Guscio fond.	340	2002	2038	2008	4	45.0	3.00	1.00
379	Guscio fond.	335	293	294	334	4	45.0	3.00	1.00
380	Guscio fond.	205	105	109	188	4	45.0	3.00	1.00
381	Guscio fond.	216	206	191	208	4	45.0	3.00	1.00
382	Guscio fond.	316	234	241	265	4	45.0	3.00	1.00
383	Guscio fond.	171	2013	170	169	4	45.0	3.00	1.00
384	Guscio fond.	362	135	177	2040	4	45.0	3.00	1.00
385	Guscio fond.	274	123	2026	257	4	45.0	3.00	1.00
386	Guscio fond.	2038	2002	145	2042	4	45.0	3.00	1.00
387	Guscio fond.	2042	145	148	163	4	45.0	3.00	1.00
388	Guscio fond.	353	350	248	295	4	45.0	3.00	1.00
389	Guscio fond.	370	385	99	267	4	45.0	3.00	1.00
390	Guscio fond.	266	268	215	213	4	45.0	3.00	1.00
391	Guscio fond.	2023	360	420	425	4	45.0	3.00	1.00
392	Guscio fond.	358	2024	352	359	4	45.0	3.00	1.00
393	Guscio fond.	27	384	29	2011	4	45.0	3.00	1.00
394	Guscio fond.	6	382	185	5	4	45.0	3.00	1.00
395	Guscio fond.	21	23	227	320	4	45.0	3.00	1.00
396	Guscio	972	986	2077		4	24.0		
397	Guscio fond.	22	24	23		4	45.0	3.00	1.00
398	Guscio fond.	2007	258	36		4	45.0	3.00	1.00
399	Guscio fond.	380	381	323		4	45.0	3.00	1.00
400	Guscio fond.	32	185	31		4	45.0	3.00	1.00
401	Guscio fond.	2009	32	31		4	45.0	3.00	1.00
402	Guscio fond.	75	77	76		4	45.0	3.00	1.00
403	Guscio fond.	382	8	7		4	45.0	3.00	1.00
404	Guscio fond.	244	241	243		4	45.0	3.00	1.00
405	Guscio fond.	99	385	97		4	45.0	3.00	1.00
406	Guscio fond.	191	206	205		4	45.0	3.00	1.00
407	Guscio fond.	246	248	173		4	45.0	3.00	1.00
408	Guscio fond.	341	2041	557		4	45.0	3.00	1.00
409	Guscio fond.	234	209	232		4	45.0	3.00	1.00
410	Guscio fond.	352	332	176		4	45.0	3.00	1.00
411	Guscio fond.	24	26	23		4	45.0	3.00	1.00
412	Guscio fond.	2028	333	2024		4	45.0	3.00	1.00
413	Guscio fond.	2022	2	1		4	45.0	3.00	1.00
414	Guscio	1115	1117	1118	1116	4	24.0		
415	Guscio	448	997	2057	449	4	24.0		
416	Guscio	1433	1434	1420	1418	4	24.0		
417	Guscio	1056	1030	1029	1055	4	24.0		
418	Guscio	978	989	988	976	4	24.0		
419	Guscio	1014	1015	1016	1013	4	24.0		
420	Guscio	1562	1561	1574	1577	4	24.0		
421	Guscio	1577	1574	1575	1576	4	24.0		
422	Guscio	1473	1474	1443	1442	4	24.0		
423	Guscio	68	936	1541	1540	4	24.0		
424	Guscio	574	570	1104	1089	4	24.0		
425	Guscio	523	1112	1111	524	4	24.0		
426	Guscio	1545	1599	1551	1550	4	24.0		
427	Guscio	1112	1109	1110	1111	4	24.0		
428	Guscio	1122	1121	1128	1127	4	24.0		
429	Guscio	1118	1122	1127	1126	4	24.0		
430	Guscio	1615	1611	1614	1616	4	24.0		
431	Guscio	1039	1036	1037	1038	4	24.0		
432	Guscio	68	1540	1539	67	4	24.0		
433	Guscio	2059	1513	1515	1512	4	24.0		
434	Guscio	578	574	1089	1087	4	24.0		
435	Guscio	981	495	499	999	4	24.0		
436	Guscio	67	1539	1538	66	4	24.0		
437	Guscio	511	1073	1112	523	4	24.0		
438	Guscio	982	487	489	980	4	24.0		
439	Guscio	1439	1441	1432	1430	4	24.0		
440	Guscio	961	981	999	998	4	24.0		
441	Guscio	2047	2049	2044	2046	4	24.0		
442	Guscio	1511	2059	1512	1510	4	24.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
443	Guscio	535	477	989	978	4	24.0		
444	Guscio	1635	1625	1409	1408	4	24.0		
445	Guscio	1594	1529	1530	1582	4	24.0		
446	Guscio	1625	1626	1410	1409	4	24.0		
447	Guscio	1619	1568	1555	1554	4	24.0		
448	Guscio	1575	1579	1606	1608	4	24.0		
449	Guscio	1548	1583	1588	1600	4	24.0		
450	Guscio	1593	1592	1595	1596	4	24.0		
451	Guscio	1478	1477	1497	1496	4	24.0		
452	Guscio	1592	1591	1594	1595	4	24.0		
453	Guscio	1487	1489	1490	1491	4	24.0		
454	Guscio	1435	1436	1424	1422	4	24.0		
455	Guscio	964	982	980	960	4	24.0		
456	Guscio	1489	1479	1480	1490	4	24.0		
457	Guscio	477	594	1136	476	4	24.0		
458	Guscio	2057	2047	2046	2043	4	24.0		
459	Guscio	1007	1012	1010	1009	4	24.0		
460	Guscio	1023	1014	1013	1022	4	24.0		
461	Guscio	1453	1500	1488	1458	4	24.0		
462	Guscio	1066	1068	1071	1069	4	24.0		
463	Guscio	1052	1051	1057	1058	4	24.0		
464	Guscio	1015	1019	1017	1016	4	24.0		
465	Guscio	1069	1071	1074	1072	4	24.0		
466	Guscio	1460	1459	1463	1464	4	24.0		
467	Guscio	2072	1504	1505	1500	4	24.0		
468	Guscio	1456	1455	1459	1460	4	24.0		
469	Guscio	2055	992	2048	2050	4	24.0		
470	Guscio	1601	1516	1440	1602	4	24.0		
471	Guscio	2064	2068	965	994	4	24.0		
472	Guscio	487	1052	1058	489	4	24.0		
473	Guscio	70	935	936	69	4	24.0		
474	Guscio	1068	1038	1047	1071	4	24.0		
475	Guscio	1623	1603	1602	1624	4	24.0		
476	Guscio	1095	1097	1056	1054	4	24.0		
477	Guscio	1525	1524	2059	1511	4	24.0		
478	Guscio	1534	1460	1464	1535	4	24.0		
479	Guscio	1480	1478	1496	1492	4	24.0		
480	Guscio	1516	1472	1439	1440	4	24.0		
481	Guscio	1595	1594	1582	1581	4	24.0		
482	Guscio	564	563	1004	1107	4	24.0		
483	Guscio	1408	1409	1406	1407	4	24.0		
484	Guscio	1517	1468	1472	1516	4	24.0		
485	Guscio	1457	1458	1462	1461	4	24.0		
486	Guscio	1561	1572	1578	1574	4	24.0		
487	Guscio	1466	1491	1498	1470	4	24.0		
488	Guscio	1552	1580	1569	1568	4	24.0		
489	Guscio	1581	1582	1573	1570	4	24.0		
490	Guscio	1024	1021	1025	1026	4	24.0		
491	Guscio	1038	1037	1046	1047	4	24.0		
492	Guscio	1084	1086	1093	1092	4	24.0		
493	Guscio	1502	1521	1520	1503	4	24.0		
494	Guscio	1520	1542	38	1519	4	24.0		
495	Guscio	1436	1437	1426	1424	4	24.0		
496	Guscio	1566	1571	1572	1561	4	24.0		
497	Guscio	1067	1066	1069	1070	4	24.0		
498	Guscio	2088	666	662		4	20.0		
499	Guscio	1558	1559	1560	1557	4	24.0		
500	Guscio	2077	2071	985	970	4	24.0		
501	Guscio	1627	67	66	2066	4	24.0		
502	Guscio	1071	1047	1075	1074	4	24.0		
503	Guscio	1105	1108	1019	1015	4	24.0		
504	Guscio	1042	1044	1045	1043	4	24.0		
505	Guscio	989	477	476	988	4	24.0		
506	Guscio	973	972	2077	971	4	24.0		
507	Guscio	988	476	478	987	4	24.0		
508	Guscio	1624	1602	1626	1625	4	24.0		
509	Guscio	935	938	937	936	4	24.0		
510	Guscio	1459	1461	1465	1463	4	24.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
511	Guscio	1499	1494	1445	1444	4	24.0		
512	Guscio	1065	1039	1038	1068	4	24.0		
513	Guscio	1053	1054	1051	1052	4	24.0		
514	Guscio	1055	1029	1033	1059	4	24.0		
515	Guscio	1514	1522	1521	1502	4	24.0		
516	Guscio	990	973	971	991	4	24.0		
517	Guscio	1080	1084	1092	1090	4	24.0		
518	Guscio	1027	1134	1133	1044	4	24.0		
519	Guscio	1044	1133	1132	1045	4	24.0		
520	Guscio	1574	1578	1579	1575	4	24.0		
521	Guscio	1444	1445	1436	1435	4	24.0		
522	Guscio	1494	1493	1446	1445	4	24.0		
523	Guscio	1032	1024	1026	1034	4	24.0		
524	Guscio	1103	1100	1101	1102	4	24.0		
525	Guscio	1483	1479	1489	1487	4	24.0		
526	Guscio	1523	2058	1514	2045	4	24.0		
527	Guscio	1554	1555	1556	1553	4	24.0		
528	Guscio	1596	1595	1581	1580	4	24.0		
529	Guscio	994	965	963	995	4	24.0		
530	Guscio	594	590	2074	1136	4	24.0		
531	Guscio	1041	1043	1049	1048	4	24.0		
532	Guscio	1120	1129	1128	1121	4	24.0		
533	Guscio	1102	1101	1014	1023	4	24.0		
534	Guscio	1579	1535	1517	1606	4	24.0		
535	Guscio	1046	1048	1077	1076	4	24.0		
536	Guscio	1573	1531	1532	1571	4	24.0		
537	Guscio	1477	449	455	1497	4	24.0		
538	Guscio	499	1064	1067	503	4	24.0		
539	Guscio	1568	1569	1565	1567	4	24.0		
540	Guscio	1532	1448	1456	1533	4	24.0		
541	Guscio	570	564	1107	1104	4	24.0		
542	Guscio	1514	1502	1501	1515	4	24.0		
543	Guscio	1037	1041	1048	1046	4	24.0		
544	Guscio	1002	1001	1012	1007	4	24.0		
545	Guscio	1089	1104	1100	1088	4	24.0		
546	Guscio	1613	1612	1523	2045	4	24.0		
547	Guscio	1553	1556	1620	1621	4	24.0		
548	Guscio	1060	1062	1065	1063	4	24.0		
549	Guscio	1501	1502	2072	2076	4	24.0		
550	Guscio	1464	1463	1467	1468	4	24.0		
551	Guscio	1630	1629	1612	1611	4	24.0		
552	Guscio	934	938	935	70	4	24.0		
553	Guscio	541	535	978	979	4	24.0		
554	Guscio	997	998	2047	2057	4	24.0		
555	Guscio	1059	1033	1035	1062	4	24.0		
556	Guscio	1622	1623	1624	1634	4	24.0		
557	Guscio	1597	1615	1616	1598	4	24.0		
558	Guscio	998	999	2049	2047	4	24.0		
559	Guscio	1004	1003	1002	1005	4	24.0		
560	Guscio	1020	1135	1134	1027	4	24.0		
561	Guscio	1021	1020	1027	1025	4	24.0		
562	Guscio	1472	1471	1441	1439	4	24.0		
563	Guscio	977	976	974	975	4	24.0		
564	Guscio	1445	1446	1437	1436	4	24.0		
565	Guscio	975	974	972	973	4	24.0		
566	Guscio	1098	1099	1031	1030	4	24.0		
567	Guscio	489	1058	1061	495	4	24.0		
568	Guscio	985	2071	462		4	24.0		
569	Guscio	1533	1456	1460	1534	4	24.0		
570	Guscio	1539	1536	1537	1538	4	24.0		
571	Guscio	476	1136	1082	478	4	24.0		
572	Guscio	1017	1008	1011	1018	4	24.0		
573	Guscio	1040	1042	1043	1041	4	24.0		
574	Guscio	1537	2055	2050	1522	4	24.0		
575	Guscio	2050	2048	993	1544	4	24.0		
576	Guscio	1475	1476	1477	1478	4	24.0		
577	Guscio	1033	1032	1034	1035	4	24.0		
578	Guscio	1535	1464	1468	1517	4	24.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
579	Guscio	563	660	1003	1004	4	24.0		
580	Guscio	1090	1092	1097	1095	4	24.0		
581	Guscio	1096	1095	1054	1053	4	24.0		
582	Guscio	1043	1045	1050	1049	4	24.0		
583	Guscio	1050	1131	1130	1079	4	24.0		
584	Guscio	1104	1107	1106	1100	4	24.0		
585	Guscio	458	1096	1053	459	4	24.0		
586	Guscio	1522	2050	1544	1521	4	24.0		
587	Guscio	1079	1130	1129	1120	4	24.0		
588	Guscio	503	1067	1070	507	4	24.0		
589	Guscio	2052	2051	1823	1815	4	24.0		
590	Guscio	1058	1057	1060	1061	4	24.0		
591	Guscio	1463	1465	1469	1467	4	24.0		
592	Guscio	1510	1512	1454	1452	4	24.0		
593	Guscio	1560	1610	1609	1557	4	24.0		
594	Guscio	1557	1609	1623	1622	4	24.0		
595	Guscio	1430	1432	1416	1414	4	24.0		
596	Guscio	992	969	993	2048	4	24.0		
597	Guscio	1035	1034	1036	1039	4	24.0		
598	Guscio	1062	1035	1039	1065	4	24.0		
599	Guscio	1500	1505	1486	1488	4	24.0		
600	Guscio	2066	66	2058	1523	4	24.0		
601	Guscio	1461	1462	1466	1465	4	24.0		
602	Guscio	1072	1074	1114	1113	4	24.0		
603	Guscio	1437	1438	1428	1426	4	24.0		
604	Guscio	582	578	1087	1085	4	24.0		
605	Guscio	1448	1447	1455	1456	4	24.0		
606	Guscio	980	489	495	981	4	24.0		
607	Guscio	985	462	984	968	4	24.0		
608	Guscio	1462	1487	1491	1466	4	24.0		
609	Guscio	462	1091	1096	458	4	24.0		
610	Guscio	1491	1490	1495	1498	4	24.0		
611	Guscio	1485	1519	1518	1482	4	24.0		
612	Guscio	1482	1518	448	1476	4	24.0		
613	Guscio	1634	1624	1625	1635	4	24.0		
614	Guscio	1541	990	991	1536	4	24.0		
615	Guscio	974	987	986	972	4	24.0		
616	Guscio	1409	1410	1411	1406	4	24.0		
617	Guscio	1455	1457	1461	1459	4	24.0		
618	Guscio	1458	1488	1487	1462	4	24.0		
619	Guscio	1447	1451	1457	1455	4	24.0		
620	Guscio	478	1082	1081	479	4	24.0		
621	Guscio	1490	1480	1492	1495	4	24.0		
622	Guscio	1505	1504	1484	1486	4	24.0		
623	Guscio	1036	1040	1041	1037	4	24.0		
624	Guscio	1028	1022	1024	1032	4	24.0		
625	Guscio	1051	1055	1059	1057	4	24.0		
626	Guscio	1567	1565	1564	1563	4	24.0		
627	Guscio	1531	1449	1448	1532	4	24.0		
628	Guscio	2068	2062	964	965	4	24.0		
629	Guscio	1442	1443	1434	1433	4	24.0		
630	Guscio	1422	1424	1425	1423	4	24.0		
631	Guscio	1446	445	1438	1437	4	24.0		
632	Guscio	524	1111	1123	525	4	24.0		
633	Guscio	1476	448	449	1477	4	24.0		
634	Guscio	1420	1422	1423	1421	4	24.0		
635	Guscio	1465	1466	1470	1469	4	24.0		
636	Guscio	1607	1608	1606	1605	4	24.0		
637	Guscio	1621	1620	1559	1558	4	24.0		
638	Guscio	2043	2046	2052	2053	4	24.0		
639	Guscio	1551	1596	1580	1552	4	24.0		
640	Guscio	1527	1526	1509	1508	4	24.0		
641	Guscio	1565	1566	1561	1564	4	24.0		
642	Guscio	1555	1563	1562	1556	4	24.0		
643	Guscio	1599	1593	1596	1551	4	24.0		
644	Guscio	660	661	1000	1003	4	24.0		
645	Guscio	1600	1588	1593	1599	4	24.0		
646	Guscio	1529	1508	1507	1530	4	24.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
647	Guscio	2054	2073	962	996	4	24.0		
648	Guscio	2051	507	511	1823	4	24.0		
649	Guscio	1031	1023	1022	1028	4	24.0		
650	Guscio	1468	1467	1471	1472	4	24.0		
651	Guscio	1474	1499	1444	1443	4	24.0		
652	Guscio	1469	1470	1474	1473	4	24.0		
653	Guscio	1498	1495	1494	1499	4	24.0		
654	Guscio	983	459	487	982	4	24.0		
655	Guscio	1508	1509	1506	1507	4	24.0		
656	Guscio	1452	1454	1453	1451	4	24.0		
657	Guscio	969	968	967	993	4	24.0		
658	Guscio	936	937	990	1541	4	24.0		
659	Guscio	979	978	976	977	4	24.0		
660	Guscio	71	940	934	70	4	24.0		
661	Guscio	976	988	987	974	4	24.0		
662	Guscio	1082	1083	1080	1081	4	24.0		
663	Guscio	1629	1628	1627	1612	4	24.0		
664	Guscio	1431	1430	1414	1412	4	24.0		
665	Guscio	1542	2060	2063	38	4	24.0		
666	Guscio	1063	1065	1068	1066	4	24.0		
667	Guscio	1432	1433	1418	1416	4	24.0		
668	Guscio	993	967	2068	2064	4	24.0		
669	Guscio	1617	1618	1584	1583	4	24.0		
670	Guscio	984	983	2062	966	4	24.0		
671	Guscio	1609	1604	1603	1623	4	24.0		
672	Guscio	1526	1525	1511	1509	4	24.0		
673	Guscio	2060	994	995	2063	4	24.0		
674	Guscio	38	37	1543	1519	4	24.0		
675	Guscio	1470	1498	1499	1474	4	24.0		
676	Guscio	1414	1416	1417	1415	4	24.0		
677	Guscio	1479	1475	1478	1480	4	24.0		
678	Guscio	1620	1577	1576	1559	4	24.0		
679	Guscio	1536	991	2055	1537	4	24.0		
680	Guscio	1467	1469	1473	1471	4	24.0		
681	Guscio	1507	1506	1450	1449	4	24.0		
682	Guscio	479	1081	2078	2075	4	24.0		
683	Guscio	1412	1414	1415	1413	4	24.0		
684	Guscio	1628	68	67	1627	4	24.0		
685	Guscio	968	984	966	967	4	24.0		
686	Guscio	1106	1107	1108	1105	4	24.0		
687	Guscio	1590	1598	1526	1527	4	24.0		
688	Guscio	1618	1633	1589	1584	4	24.0		
689	Guscio	1026	1025	1042	1040	4	24.0		
690	Guscio	1097	1098	1030	1056	4	24.0		
691	Guscio	939	979	977	938	4	24.0		
692	Guscio	1049	1050	1079	1078	4	24.0		
693	Guscio	1503	1520	1519	1485	4	24.0		
694	Guscio	1548	1600	1599	1545	4	24.0		
695	Guscio	1022	1013	1021	1024	4	24.0		
696	Guscio	1509	1511	1510	1506	4	24.0		
697	Guscio	1424	1426	1427	1425	4	24.0		
698	Guscio	1556	1562	1577	1620	4	24.0		
699	Guscio	1100	1106	1105	1101	4	24.0		
700	Guscio	1003	1000	1001	1002	4	24.0		
701	Guscio	1443	1444	1435	1434	4	24.0		
702	Guscio	1091	1090	1095	1096	4	24.0		
703	Guscio	1568	1567	1563	1555	4	24.0		
704	Guscio	1018	1011	1135	1020	4	24.0		
705	Guscio	1113	1114	1109	1112	4	24.0		
706	Guscio	1064	1063	1066	1067	4	24.0		
707	Guscio	1061	1060	1063	1064	4	24.0		
708	Guscio	1441	1442	1433	1432	4	24.0		
709	Guscio	1495	1492	1493	1494	4	24.0		
710	Guscio	1496	1497	1493	1492	4	24.0		
711	Guscio	1583	1584	1585	1586	4	24.0		
712	Guscio	2056	1009	1008	1017	4	24.0		
713	Guscio	1081	1080	1090	2078	4	24.0		
714	Guscio	1471	1473	1442	1441	4	24.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
715	Guscio	1093	1094	1099	1098	4	24.0		
716	Guscio	1094	1103	1102	1099	4	24.0		
717	Guscio	1521	2069	1542	1520	4	24.0		
718	Guscio	586	582	1085	1083	4	24.0		
719	Guscio	1107	1004	1005	1108	4	24.0		
720	Guscio	1108	1005	1006	1019	4	24.0		
721	Guscio	1564	1561	1562	1563	4	24.0		
722	Guscio	449	2043	2053	455	4	24.0		
723	Guscio	1605	1606	1601	1604	4	24.0		
724	Guscio	1481	1482	1476	1475	4	24.0		
725	Guscio	937	975	973	990	4	24.0		
726	Guscio	1083	1085	1084	1080	4	24.0		
727	Guscio	1589	1597	1598	1590	4	24.0		
728	Guscio	1078	1079	1120	1119	4	24.0		
729	Guscio	1117	1119	1122	1118	4	24.0		
730	Guscio	1540	1541	1536	1539	4	24.0		
731	Guscio	1109	1115	1116	1110	4	24.0		
732	Guscio	1019	1006	2056	1017	4	24.0		
733	Guscio	1572	1533	1534	1578	4	24.0		
734	Guscio	1029	1028	1032	1033	4	24.0		
735	Guscio	1585	1590	1527	1528	4	24.0		
736	Guscio	1030	1031	1028	1029	4	24.0		
737	Guscio	940	939	938	934	4	24.0		
738	Guscio	1631	1630	1611	1615	4	24.0		
739	Guscio	1086	1088	1094	1093	4	24.0		
740	Guscio	1088	1100	1103	1094	4	24.0		
741	Guscio	1484	1485	1482	1481	4	24.0		
742	Guscio	1614	1613	2045	1524	4	24.0		
743	Guscio	1580	1581	1570	1569	4	24.0		
744	Guscio	987	478	479	986	4	24.0		
745	Guscio	1074	1075	1109	1114	4	24.0		
746	Guscio	1576	1575	1608	1607	4	24.0		
747	Guscio	1626	1431	1412	1410	4	24.0		
748	Guscio	1569	1570	1566	1565	4	24.0		
749	Guscio	2053	2052	1815	1805	4	24.0		
750	Guscio	1045	1132	1131	1050	4	24.0		
751	Guscio	1092	1093	1098	1097	4	24.0		
752	Guscio	1616	1614	1524	1525	4	24.0		
753	Guscio	1076	1077	1117	1115	4	24.0		
754	Guscio	1598	1616	1525	1526	4	24.0		
755	Guscio	1057	1059	1062	1060	4	24.0		
756	Guscio	1584	1589	1590	1585	4	24.0		
757	Guscio	1486	1484	1481	1483	4	24.0		
758	Guscio	1588	1587	1592	1593	4	24.0		
759	Guscio	1582	1530	1531	1573	4	24.0		
760	Guscio	996	962	997	448	4	24.0		
761	Guscio	1543	996	448	1518	4	24.0		
762	Guscio	1451	1453	1458	1457	4	24.0		
763	Guscio	1559	1576	1607	1560	4	24.0		
764	Guscio	1418	1420	1421	1419	4	24.0		
765	Guscio	970	985	968	969	4	24.0		
766	Guscio	1009	1010	1011	1008	4	24.0		
767	Guscio	1434	1435	1422	1420	4	24.0		
768	Guscio	962	961	998	997	4	24.0		
769	Guscio	1550	1551	1552	1549	4	24.0		
770	Guscio	1606	1517	1516	1601	4	24.0		
771	Guscio	1506	1510	1452	1450	4	24.0		
772	Guscio	1610	1605	1604	1609	4	24.0		
773	Guscio	1512	1515	1501	1454	4	24.0		
774	Guscio	1048	1049	1078	1077	4	24.0		
775	Guscio	2062	983	982	964	4	24.0		
776	Guscio	1099	1102	1023	1031	4	24.0		
777	Guscio	1016	1017	1018	1013	4	24.0		
778	Guscio	1111	1110	1124	1123	4	24.0		
779	Guscio	1075	1076	1115	1109	4	24.0		
780	Guscio	1549	1552	1568	1619	4	24.0		
781	Guscio	1034	1026	1040	1036	4	24.0		
782	Guscio	2063	995	37	38	4	24.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
783	Guscio	1604	1601	1602	1603	4	24.0		
784	Guscio	1483	1481	1475	1479	4	24.0		
785	Guscio	984	462	458		4	24.0		
786	Guscio	1488	1486	1483	1487	4	24.0		
787	Guscio	546	541	979	939	4	24.0		
788	Guscio	2044	503	507	2051	4	24.0		
789	Setto	556	551	72	2083	4	20.0		
790	Guscio	1633	1632	1597	1589	4	24.0		
791	Guscio	1013	1018	1020	1021	4	24.0		
792	Guscio	1450	1452	1451	1447	4	24.0		
793	Guscio	1547	1617	1583	1548	4	24.0		
794	Guscio	1110	1116	1125	1124	4	24.0		
795	Guscio	1073	1072	1113	1112	4	24.0		
796	Guscio	72	546	940	71	4	24.0		
797	Guscio	984	458	459	983	4	24.0		
798	Guscio	1544	2070	2069	1521	4	24.0		
799	Guscio	1426	1428	1429	1427	4	24.0		
800	Guscio	1587	1586	1591	1592	4	24.0		
801	Guscio	1586	1585	1528	1591	4	24.0		
802	Guscio	1571	1532	1533	1572	4	24.0		
803	Guscio	1530	1507	1449	1531	4	24.0		
804	Guscio	848	826	672		4	20.0		
805	Guscio	1528	1527	1508	1529	4	24.0		
806	Guscio	1101	1105	1015	1014	4	24.0		
807	Guscio	971	970	969	992	4	24.0		
808	Guscio	1085	1087	1086	1084	4	24.0		
809	Guscio	1047	1046	1076	1075	4	24.0		
810	Guscio	1005	1002	1007	1006	4	24.0		
811	Guscio	1025	1027	1044	1042	4	24.0		
812	Guscio	999	499	503	2049	4	24.0		
813	Guscio	1497	455	444	1493	4	24.0		
814	Setto	2083	72	558	606	4	20.0		
815	Guscio	1006	1007	1009	2056	4	24.0		
816	Guscio	965	964	960	963	4	24.0		
817	Guscio	2046	2044	2051	2052	4	24.0		
818	Guscio	1570	1573	1571	1566	4	24.0		
819	Guscio	1560	1607	1605	1610	4	24.0		
820	Guscio	507	1070	1073	511	4	24.0		
821	Guscio	455	2053	1805	444	4	24.0		
822	Guscio	1632	1631	1615	1597	4	24.0		
823	Guscio	1077	1078	1119	1117	4	24.0		
824	Guscio	1546	1547	1548	1545	4	24.0		
825	Guscio	1524	2045	1513	2059	4	24.0		
826	Guscio	1116	1118	1126	1125	4	24.0		
827	Guscio	1054	1056	1055	1051	4	24.0		
828	Guscio	1578	1534	1535	1579	4	24.0		
829	Guscio	1602	1440	1431	1626	4	24.0		
830	Guscio	1591	1528	1529	1594	4	24.0		
831	Guscio	1583	1586	1587	1588	4	24.0		
832	Guscio	963	960	2073	2054	4	24.0		
833	Guscio	1119	1120	1121	1122	4	24.0		
834	Guscio	1416	1418	1419	1417	4	24.0		
835	Guscio	2078	1090	1091	2075	4	24.0		
836	Guscio	1440	1439	1430	1431	4	24.0		
837	Guscio	1493	444	445	1446	4	24.0		
838	Guscio	960	980	981	961	4	24.0		
839	Guscio	495	1061	1064	499	4	24.0		
840	Guscio	1087	1089	1088	1086	4	24.0		
841	Guscio	1611	1612	1613	1614	4	24.0		
842	Guscio	2058	2065	1522	1514	4	24.0		
843	Guscio	66	1538	2065	2058	4	24.0		
844	Guscio	1503	1485	1484	1504	4	24.0		
845	Guscio	1070	1069	1072	1073	4	24.0		
846	Guscio	1449	1450	1447	1448	4	24.0		
847	Guscio	1538	1537	1522	2065	4	24.0		
848	Guscio	1410	1412	1413	1411	4	24.0		
849	Guscio	1612	1627	2066	1523	4	24.0		
850	Guscio	2076	2072	1500	1453	4	24.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
851	Guscio	938	977	975	937	4	24.0		
852	Guscio	2045	1514	1515	1513	4	24.0		
853	Guscio	995	963	2054	37	4	24.0		
854	Guscio	590	586	1083	2074	4	24.0		
855	Guscio	37	2054	996	1543	4	24.0		
856	Guscio	991	971	992	2055	4	24.0		
857	Guscio	967	966	2062	2068	4	24.0		
858	Guscio	1544	993	2064	2070	4	24.0		
859	Guscio	2070	2064	994	2060	4	24.0		
860	Guscio	1502	1503	1504	2072	4	24.0		
861	Guscio	2069	2070	2060	1542	4	24.0		
862	Guscio	2073	960	961	962	4	24.0		
863	Guscio	1136	2074	1083	1082	4	24.0		
864	Guscio	459	1053	1052	487	4	24.0		
865	Guscio	1454	1501	2076	1453	4	24.0		
866	Guscio	449	2057	2043		4	24.0		
867	Guscio	940	546	939		4	24.0		
868	Guscio	2049	503	2044		4	24.0		
869	Guscio	69	936	68		4	24.0		
870	Guscio	971	2077	970		4	24.0		
871	Guscio	1519	1543	1518		4	24.0		
872	Setto	1000	1001	1224	1231	4	20.0		
873	Setto	1902	1901	1129	1130	4	20.0		
874	Setto	1129	1128	1186	1185	4	20.0		
875	Setto	1171	1172	1169	1170	4	20.0		
876	Guscio	887	850	664		4	20.0		
877	Setto	98	102	1911	1906	4	20.0		
878	Setto	1215	1210	1209	1214	4	20.0		
879	Setto	1210	1205	1204	1209	4	20.0		
880	Setto	1176	1212	1213	1175	4	20.0		
881	Setto	1212	1207	1208	1213	4	20.0		
882	Guscio	871	760	749		4	20.0		
883	Setto	627	1226	1227	628	4	20.0		
884	Setto	1185	1186	1184	1183	4	20.0		
885	Setto	1191	1185	1183	1190	4	20.0		
886	Setto	1189	1181	1177	1187	4	20.0		
887	Setto	1207	1202	1203	1208	4	20.0		
888	Setto	1226	1171	1170	1227	4	20.0		
889	Guscio	842	845	670	668	4	20.0		
890	Setto	1183	1184	1182	1181	4	20.0		
891	Guscio	845	848	672	670	4	20.0		
892	Setto	1131	1130	1191	1196	4	20.0		
893	Setto	1130	1129	1185	1191	4	20.0		
894	Setto	1174	1176	1175	1173	4	20.0		
895	Setto	1135	1134	1211	1216	4	20.0		
896	Setto	1910	1913	1134	1135	4	20.0		
897	Setto	1187	1177	1180	1188	4	20.0		
898	Setto	1918	1919	1900	1903	4	20.0		
899	Setto	1230	1225	1229	1228	4	20.0		
900	Setto	1919	1920	1904	1900	4	20.0		
901	Setto	1218	1215	1214	1217	4	20.0		
902	Setto	1194	1189	1187	1192	4	20.0		
903	Setto	1011	1135	1216	1219	4	20.0		
904	Setto	639	1228	1226	627	4	20.0		
905	Setto	1133	1132	1201	1206	4	20.0		
906	Setto	1214	1209	1207	1212	4	20.0		
907	Setto	1901	1905	1128	1129	4	20.0		
908	Setto	1010	1011	1219	1220	4	20.0		
909	Setto	1219	1216	1215	1218	4	20.0		
910	Setto	1217	1214	1212	1176	4	20.0		
911	Setto	1913	1921	1133	1134	4	20.0		
912	Setto	1228	1229	1171	1226	4	20.0		
913	Setto	1181	1182	1178	1177	4	20.0		
914	Setto	1190	1183	1181	1189	4	20.0		
915	Guscio	869	789	769	870	4	20.0		
916	Setto	1921	1922	1132	1133	4	20.0		
917	Guscio	670	672	673	671	4	20.0		
918	Setto	1907	1906	1908	1909	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
919	Setto	103	105	1916	1914	4	20.0		
920	Setto	1209	1204	1202	1207	4	20.0		
921	Setto	1199	1194	1192	1197	4	20.0		
922	Guscio	878	871	879		4	20.0		
923	Setto	99	98	1906	1907	4	20.0		
924	Setto	1222	1220	1221	1223	4	20.0		
925	Setto	1195	1190	1189	1194	4	20.0		
927	Setto	1231	1224	1225	1230	4	20.0		
928	Setto	109	106	1919	1918	4	20.0		
929	Setto	1202	1197	1198	1203	4	20.0		
930	Setto	1216	1211	1210	1215	4	20.0		
931	Setto	1172	1174	1173	1169	4	20.0		
932	Setto	1914	1916	1917	1915	4	20.0		
933	Setto	1132	1131	1196	1201	4	20.0		
934	Setto	1903	1900	1901	1902	4	20.0		
935	Setto	105	109	1918	1916	4	20.0		
936	Setto	1906	1911	1912	1908	4	20.0		
937	Setto	1224	1222	1223	1225	4	20.0		
938	Setto	1220	1219	1218	1221	4	20.0		
939	Setto	1012	1010	1220	1222	4	20.0		
940	Setto	659	1231	1230	649	4	20.0		
941	Guscio	667	668	669		4	20.0		
942	Setto	649	1230	1228	639	4	20.0		
943	Setto	102	103	1914	1911	4	20.0		
944	Setto	1204	1199	1197	1202	4	20.0		
945	Setto	661	1000	1231	659	4	20.0		
946	Setto	1922	1923	1131	1132	4	20.0		
947	Setto	1909	1908	1910	1655	4	20.0		
948	Setto	1916	1918	1903	1917	4	20.0		
949	Setto	1900	1904	1905	1901	4	20.0		
950	Setto	1200	1195	1194	1199	4	20.0		
951	Setto	1205	1200	1199	1204	4	20.0		
952	Setto	106	93	1920	1919	4	20.0		
953	Setto	1211	1206	1205	1210	4	20.0		
954	Setto	1196	1191	1190	1195	4	20.0		
956	Setto	1201	1196	1195	1200	4	20.0		
957	Guscio	668	670	671	669	4	20.0		
958	Setto	1908	1912	1913	1910	4	20.0		
959	Setto	1177	1178	1179	1180	4	20.0		
960	Setto	1134	1133	1206	1211	4	20.0		
961	Setto	1655	1910	1135	1011	4	20.0		
962	Setto	1001	1012	1222	1224	4	20.0		
963	Setto	1206	1201	1200	1205	4	20.0		
964	Setto	1197	1192	1193	1198	4	20.0		
965	Setto	1192	1187	1188	1193	4	20.0		
966	Setto	854	1811	1809		4	20.0		
967	Setto	1811	1810	1809		4	20.0		
968	Guscio	1270	1271	1276	1275	4	20.0		
969	Guscio	1365	1366	1368	1367	4	20.0		
970	Guscio	1366	1373	1375	1368	4	20.0		
971	Guscio	734	737	735	732	4	20.0		
972	Guscio	1296	1297	1302	1301	4	20.0		
973	Guscio	1311	1310	1316	1315	4	20.0		
974	Guscio	1315	1316	1320	1319	4	20.0		
975	Guscio	1273	1275	1280	1278	4	20.0		
976	Guscio	1304	1311	1315	1313	4	20.0		
977	Guscio	926	1279	60		4	20.0		
978	Guscio	1319	1320	1330	1329	4	20.0		
979	Guscio	41	537	933	42	4	20.0		
980	Guscio	1379	1386	1387	1383	4	20.0		
981	Guscio	1389	1398	1399	1388	4	20.0		
982	Guscio	1276	1277	1282	1281	4	20.0		
983	Guscio	1404	1349	1354	1405	4	20.0		
984	Guscio	48	922	920	49	4	20.0		
985	Guscio	51	917	928	52	4	20.0		
986	Guscio	699	48	49	724	4	20.0		
987	Guscio	925	1284	61		4	20.0		
988	Guscio	1289	1288	1293	1294	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
989	Guscio	1337	1340	1339	1338	4	20.0		
990	Guscio	740	743	741	738	4	20.0		
991	Guscio	1353	1355	1360	1358	4	20.0		
992	Guscio	900	56	57	901	4	20.0		
993	Guscio	1372	1203	1198	1374	4	20.0		
994	Guscio	860	859	703	708	4	20.0		
995	Guscio	768	766	757	756	4	20.0		
996	Guscio	839	843	841	840	4	20.0		
997	Guscio	1346	1347	1352	1351	4	20.0		
998	Guscio	1355	1356	1361	1360	4	20.0		
999	Guscio	537	528	30	933	4	20.0		
1000	Guscio	1395	1188	1180	1397	4	20.0		
1001	Guscio	622	624	1308	1307	4	20.0		
1002	Guscio	42	933	905	43	4	20.0		
1003	Guscio	705	45	46	700	4	20.0		
1004	Guscio	703	704	701	702	4	20.0		
1005	Guscio	624	626	1309	1308	4	20.0		
1006	Guscio	1317	1319	1329	1328	4	20.0		
1007	Guscio	918	915	916	917	4	20.0		
1008	Guscio	755	763	761	753	4	20.0		
1009	Guscio	698	47	48	699	4	20.0		
1010	Guscio	922	921	919	920	4	20.0		
1011	Guscio	49	920	918	50	4	20.0		
1012	Guscio	1314	1313	1317	1318	4	20.0		
1013	Guscio	711	691	689	712	4	20.0		
1014	Guscio	701	706	697	694	4	20.0		
1015	Guscio	1351	1352	1357	1356	4	20.0		
1016	Guscio	920	919	915	918	4	20.0		
1017	Guscio	702	701	694	690	4	20.0		
1018	Guscio	803	801	807	817	4	20.0		
1019	Guscio	63	1294	1299	64	4	20.0		
1020	Guscio	741	52	53	742	4	20.0		
1021	Guscio	738	741	742	739	4	20.0		
1022	Guscio	802	800	801	803	4	20.0		
1023	Guscio	626	628	1227	1309	4	20.0		
1024	Guscio	1308	1309	1312	1303	4	20.0		
1025	Guscio	905	908	899	904	4	20.0		
1026	Guscio	796	797	811	810	4	20.0		
1027	Guscio	808	809	806	807	4	20.0		
1028	Guscio	704	705	706	701	4	20.0		
1029	Guscio	710	708	707	709	4	20.0		
1030	Guscio	825	820	821	826	4	20.0		
1031	Guscio	55	1403	1260	56	4	20.0		
1032	Guscio	841	844	845	842	4	20.0		
1033	Guscio	1384	1385	1378	1377	4	20.0		
1034	Guscio	1393	1377	1382	1390	4	20.0		
1035	Guscio	1328	1329	1340	1337	4	20.0		
1036	Guscio	1370	1376	1395	1394	4	20.0		
1037	Guscio	816	806	815	818	4	20.0		
1038	Guscio	686	692	693	687	4	20.0		
1039	Guscio	717	714	715	716	4	20.0		
1040	Guscio	859	858	704	703	4	20.0		
1041	Guscio	1330	1175	1213	1339	4	20.0		
1042	Guscio	1382	1381	1250	1252	4	20.0		
1043	Guscio	771	728	804	822	4	20.0		
1044	Guscio	928	927	930	53	4	20.0		
1045	Guscio	1138	1390	1257	1139	4	20.0		
1046	Guscio	1358	1360	1384	1392	4	20.0		
1047	Guscio	772	731	729	770	4	20.0		
1048	Guscio	1344	1343	1348	1349	4	20.0		
1049	Guscio	915	923	924	916	4	20.0		
1050	Guscio	731	730	726	729	4	20.0		
1051	Guscio	887	153	850		4	20.0		
1052	Guscio	1264	1266	1272	1271	4	20.0		
1053	Guscio	751	754	827	831	4	20.0		
1054	Guscio	777	776	775	767	4	20.0		
1055	Guscio	1394	1395	1397	1396	4	20.0		
1056	Guscio	1354	1353	1358	1359	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1057	Guscio	1318	1317	1328	1327	4	20.0		
1058	Guscio	785	777	767	766	4	20.0		
1059	Guscio	1332	1337	1338	1334	4	20.0		
1060	Guscio	1275	1276	1281	1280	4	20.0		
1061	Guscio	1381	1383	1248	1250	4	20.0		
1062	Guscio	1397	1180	1179	1400	4	20.0		
1063	Guscio	1327	1328	1337	1332	4	20.0		
1064	Guscio	912	59	926		4	20.0		
1065	Guscio	1300	1301	1346	1345	4	20.0		
1066	Guscio	916	924	929	927	4	20.0		
1067	Guscio	765	774	773	764	4	20.0		
1068	Guscio	773	716	731	772	4	20.0		
1069	Guscio	1260	1261	1258	1259	4	20.0		
1070	Guscio	1313	1315	1319	1317	4	20.0		
1071	Guscio	1371	1372	1374	1373	4	20.0		
1072	Guscio	756	757	758	759	4	20.0		
1073	Guscio	787	783	781	786	4	20.0		
1075	Setto	1680	1804	1805	444	4	20.0		
1076	Guscio	801	799	808	807	4	20.0		
1077	Guscio	787	786	792	791	4	20.0		
1078	Guscio	767	775	774	765	4	20.0		
1079	Guscio	687	693	720	718	4	20.0		
1080	Guscio	1269	1268	1273	1274	4	20.0		
1081	Guscio	1342	1341	1372	1371	4	20.0		
1082	Guscio	1295	1296	1301	1300	4	20.0		
1083	Guscio	1294	1293	1298	1299	4	20.0		
1084	Guscio	1331	1332	1334	1333	4	20.0		
1085	Guscio	835	833	834	836	4	20.0		
1086	Guscio	712	689	688	713	4	20.0		
1087	Guscio	708	703	702	707	4	20.0		
1088	Guscio	762	771	822	828	4	20.0		
1089	Guscio	54	608	1403	55	4	20.0		
1090	Guscio	697	700	698	695	4	20.0		
1091	Guscio	913	912	926	921	4	20.0		
1093	Guscio	1320	1173	1175	1330	4	20.0		
1094	Guscio	1263	1265	1264	1262	4	20.0		
1095	Guscio	1258	1262	1270	1268	4	20.0		
1096	Guscio	1341	1208	1203	1372	4	20.0		
1097	Guscio	793	784	785	788	4	20.0		
1098	Guscio	723	725	743	740	4	20.0		
1099	Guscio	733	736	798	800	4	20.0		
1100	Guscio	2088	1672	666		4	20.0		
1101	Guscio	783	782	780	781	4	20.0		
1102	Guscio	748	752	750	744	4	20.0		
1103	Guscio	760	756	748	749	4	20.0		
1104	Guscio	1298	1300	1345	1343	4	20.0		
1105	Guscio	1271	1272	1277	1276	4	20.0		
1106	Guscio	1338	1339	1341	1342	4	20.0		
1107	Guscio	775	713	717	774	4	20.0		
1108	Guscio	1388	1399	1402	1386	4	20.0		
1109	Guscio	864	863	783	787	4	20.0		
1110	Guscio	921	926	925	919	4	20.0		
1111	Guscio	929	64	65	932	4	20.0		
1112	Guscio	2087	1318	1327	1326	4	20.0		
1113	Guscio	888	868	869	885	4	20.0		
1114	Guscio	749	748	744	747	4	20.0		
1115	Guscio	827	828	830	829	4	20.0		
1116	Guscio	1293	1295	1300	1298	4	20.0		
1117	Guscio	1306	1303	1304	1305	4	20.0		
1118	Guscio	914	913	921	922	4	20.0		
1119	Guscio	847	825	826	848	4	20.0		
1120	Guscio	689	686	687	688	4	20.0		
1121	Guscio	837	842	1672	2088	4	20.0		
1122	Guscio	1142	1391	1390	1138	4	20.0		
1123	Guscio	1268	1270	1275	1273	4	20.0		
1124	Guscio	789	788	768	769	4	20.0		
1125	Guscio	788	785	766	768	4	20.0		
1126	Guscio	757	765	764	758	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1127	Guscio	764	773	772	763	4	20.0		
1128	Guscio	782	710	709	780	4	20.0		
1129	Guscio	780	709	711	778	4	20.0		
1130	Guscio	766	767	765	757	4	20.0		
1131	Guscio	750	753	754	751	4	20.0		
1132	Guscio	832	829	846	843	4	20.0		
1133	Guscio	831	827	829	832	4	20.0		
1134	Guscio	817	807	806	816	4	20.0		
1135	Guscio	770	729	728	771	4	20.0		
1136	Guscio	727	733	800	802	4	20.0		
1137	Guscio	1347	1363	1365	1352	4	20.0		
1138	Guscio	858	857	705	704	4	20.0		
1139	Guscio	1266	1321	1323	1272	4	20.0		
1140	Guscio	905	906	907	908	4	20.0		
1141	Guscio	716	715	730	731	4	20.0		
1142	Guscio	1301	1302	1347	1346	4	20.0		
1143	Guscio	1287	1326	1331	1292	4	20.0		
1144	Setto	850	665	1702	1701	4	20.0		
1145	Guscio	680	683	681		4	20.0		
1146	Guscio	1359	1358	1392	1391	4	20.0		
1147	Guscio	1144	1359	1391	1142	4	20.0		
1148	Guscio	1329	1330	1339	1340	4	20.0		
1149	Guscio	910	909	912	913	4	20.0		
1150	Guscio	610	612	1261	1260	4	20.0		
1151	Guscio	756	759	752	748	4	20.0		
1152	Guscio	779	778	776	777	4	20.0		
1153	Guscio	718	720	721	719	4	20.0		
1154	Guscio	1274	1273	1278	1279	4	20.0		
1155	Guscio	1387	1401	1244	1247	4	20.0		
1156	Guscio	1310	1170	1169	1316	4	20.0		
1157	Guscio	1396	1397	1400	1401	4	20.0		
1158	Guscio	1262	1264	1271	1270	4	20.0		
1159	Guscio	924	63	64	929	4	20.0		
1160	Guscio	730	734	732	726	4	20.0		
1161	Guscio	872	747	873		4	20.0		
1162	Guscio	1281	1282	1287	1286	4	20.0		
1163	Guscio	1277	1324	2087	1282	4	20.0		
1164	Guscio	1279	1278	1283	1284	4	20.0		
1165	Guscio	1302	1335	1363	1347	4	20.0		
1166	Guscio	739	742	795	794	4	20.0		
1167	Guscio	812	853	852	814	4	20.0		
1168	Guscio	1374	1198	1193	1376	4	20.0		
1169	Guscio	1280	1281	1286	1285	4	20.0		
1170	Guscio	1391	1392	1393	1390	4	20.0		
1171	Guscio	1373	1374	1376	1375	4	20.0		
1172	Guscio	1364	1371	1373	1366	4	20.0		
1173	Guscio	1339	1213	1208	1341	4	20.0		
1174	Guscio	758	764	763	755	4	20.0		
1175	Guscio	1356	1357	1362	1361	4	20.0		
1176	Guscio	884	838	851		4	20.0		
1177	Guscio	1405	1354	1359	1144	4	20.0		
1178	Guscio	1299	1298	1343	1344	4	20.0		
1179	Guscio	1261	1263	1262	1258	4	20.0		
1180	Guscio	1672	842	668		4	20.0		
1181	Guscio	1343	1345	1350	1348	4	20.0		
1182	Guscio	724	49	50	725	4	20.0		
1183	Guscio	867	866	790	868	4	20.0		
1184	Guscio	799	796	810	808	4	20.0		
1185	Guscio	849	824	825	847	4	20.0		
1186	Guscio	1297	1333	1335	1302	4	20.0		
1187	Guscio	1326	1327	1332	1331	4	20.0		
1188	Guscio	1309	1227	1170	1310	4	20.0		
1189	Guscio	618	620	1322	1267	4	20.0		
1190	Guscio	834	832	843	839	4	20.0		
1191	Guscio	1390	1382	1252	1257	4	20.0		
1192	Guscio	688	687	718	714	4	20.0		
1193	Guscio	846	849	847	844	4	20.0		
1194	Guscio	1349	1348	1353	1354	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1195	Guscio	1305	1304	1313	1314	4	20.0		
1196	Guscio	903	902	910	911	4	20.0		
1197	Guscio	62	1289	1294	63	4	20.0		
1198	Guscio	763	772	770	761	4	20.0		
1200	Guscio	1292	1331	1333	1297	4	20.0		
1201	Guscio	909	2010	2086	912	4	20.0		
1202	Guscio	874	835	875		4	20.0		
1203	Guscio	828	822	823	830	4	20.0		
1204	Guscio	742	53	1677	795	4	20.0		
1205	Guscio	620	622	1307	1322	4	20.0		
1206	Guscio	1307	1308	1303	1306	4	20.0		
1207	Guscio	769	768	756	760	4	20.0		
1208	Guscio	729	726	727	728	4	20.0		
1209	Guscio	904	899	902	903	4	20.0		
1210	Guscio	722	724	725	723	4	20.0		
1211	Guscio	719	721	737	734	4	20.0		
1212	Guscio	838	837	2088	153	4	20.0		
1213	Guscio	720	722	723	721	4	20.0		
1214	Guscio	1378	1388	1386	1379	4	20.0		
1215	Guscio	616	618	1267	1265	4	20.0		
1216	Guscio	863	862	782	783	4	20.0		
1217	Guscio	528	54	906	30	4	20.0		
1218	Guscio	2086	1274	1279	926	4	20.0		
1219	Guscio	1278	1280	1285	1283	4	20.0		
1220	Guscio	47	914	922	48	4	20.0		
1222	Guscio	1284	1283	1288	1289	4	20.0		
1223	Guscio	889	867	868	888	4	20.0		
1224	Guscio	1259	1258	1268	1269	4	20.0		
1225	Guscio	65	1344	1349	1404	4	20.0		
1226	Guscio	911	910	913	914	4	20.0		
1227	Guscio	46	911	914	47	4	20.0		
1228	Guscio	1286	1287	1292	1291	4	20.0		
1229	Guscio	747	744	745	746	4	20.0		
1230	Guscio	800	798	799	801	4	20.0		
1231	Guscio	901	57	58		4	20.0		
1232	Guscio	700	46	47	698	4	20.0		
1233	Guscio	868	790	789	869	4	20.0		
1234	Guscio	1272	1323	1324	1277	4	20.0		
1235	Setto	1809	1810	1819		4	20.0		
1236	Guscio	728	727	802	804	4	20.0		
1237	Guscio	1288	1290	1295	1293	4	20.0		
1238	Guscio	844	847	848	845	4	20.0		
1239	Guscio	806	812	814	815	4	20.0		
1240	Guscio	1399	1396	1401	1402	4	20.0		
1241	Guscio	1383	1387	1247	1248	4	20.0		
1242	Guscio	745	751	831	833	4	20.0		
1243	Guscio	808	810	813	809	4	20.0		
1244	Guscio	1291	1292	1297	1296	4	20.0		
1245	Guscio	1363	1364	1366	1365	4	20.0		
1246	Guscio	1360	1361	1385	1384	4	20.0		
1247	Guscio	752	755	753	750	4	20.0		
1248	Guscio	753	761	762	754	4	20.0		
1249	Guscio	1285	1286	1291	1290	4	20.0		
1250	Guscio	45	903	911	46	4	20.0		
1251	Guscio	786	781	779	784	4	20.0		
1252	Guscio	1401	1400	1179	1244	4	20.0		
1253	Guscio	781	780	778	779	4	20.0		
1254	Guscio	917	916	927	928	4	20.0		
1255	Guscio	1376	1193	1188	1395	4	20.0		
1256	Setto	1810	1820	1819		4	20.0		
1257	Guscio	1350	1351	1356	1355	4	20.0		
1258	Guscio	927	929	932	931	4	20.0		
1259	Guscio	810	811	812	813	4	20.0		
1260	Guscio	923	62	63	924	4	20.0		
1261	Guscio	1267	1322	1321	1266	4	20.0		
1262	Guscio	1323	1305	1314	1324	4	20.0		
1263	Guscio	1392	1384	1377	1393	4	20.0		
1264	Guscio	902	901	909	910	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1265	Guscio	1369	1370	1394	1398	4	20.0		
1266	Guscio	880	872	873		4	20.0		
1267	Guscio	805	803	817	819	4	20.0		
1268	Guscio	815	814	680		4	20.0		
1269	Guscio	784	779	777	785	4	20.0		
1270	Guscio	857	44	45	705	4	20.0		
1271	Guscio	715	719	734	730	4	20.0		
1272	Guscio	823	805	819	824	4	20.0		
1273	Guscio	880	873	874	881	4	20.0		
1274	Guscio	706	705	700	697	4	20.0		
1275	Guscio	884	876	838		4	20.0		
1276	Guscio	1265	1267	1266	1264	4	20.0		
1278	Guscio	57	1259	1269	2010	4	20.0		
1279	Guscio	798	794	796	799	4	20.0		
1280	Guscio	608	610	1260	1403	4	20.0		
1281	Guscio	820	816	818	821	4	20.0		
1282	Guscio	1324	1314	1318	2087	4	20.0		
1283	Guscio	866	865	791	790	4	20.0		
1284	Guscio	809	813	812	806	4	20.0		
1285	Guscio	811	854	853	812	4	20.0		
1286	Guscio	1361	1362	1389	1385	4	20.0		
1287	Guscio	899	900	901	902	4	20.0		
1288	Guscio	1386	1402	1401	1387	4	20.0		
1289	Guscio	1362	1369	1398	1389	4	20.0		
1290	Guscio	761	770	771	762	4	20.0		
1291	Guscio	1368	1375	1376	1370	4	20.0		
1292	Guscio	776	712	713	775	4	20.0		
1293	Guscio	838	839	840	837	4	20.0		
1294	Guscio	664	2088	665		4	20.0		
1295	Guscio	818	815	678		4	20.0		
1296	Guscio	886	869	870	877	4	20.0		
1297	Guscio	691	690	686	689	4	20.0		
1298	Guscio	707	702	690	691	4	20.0		
1299	Guscio	821	818	676		4	20.0		
1300	Guscio	829	830	849	846	4	20.0		
1301	Guscio	1367	1368	1370	1369	4	20.0		
1302	Guscio	692	695	696	693	4	20.0		
1303	Guscio	1316	1169	1173	1320	4	20.0		
1304	Guscio	778	711	712	776	4	20.0		
1305	Guscio	44	904	903	45	4	20.0		
1306	Guscio	830	823	824	849	4	20.0		
1307	Guscio	870	760	871	878	4	20.0		
1308	Guscio	792	786	784	793	4	20.0		
1309	Guscio	1398	1394	1396	1399	4	20.0		
1310	Guscio	1377	1378	1379	1380	4	20.0		
1311	Guscio	819	817	816	820	4	20.0		
1312	Guscio	1282	2087	1326	1287	4	20.0		
1313	Guscio	2010	1269	1274	2086	4	20.0		
1314	Guscio	2085	792	793	788	4	20.0		
1315	Guscio	612	614	1263	1261	4	20.0		
1316	Guscio	1322	1307	1306	1321	4	20.0		
1317	Guscio	794	795	797	796	4	20.0		
1318	Guscio	725	50	51	743	4	20.0		
1319	Guscio	64	1299	1344	65	4	20.0		
1320	Guscio	919	925	923	915	4	20.0		
1321	Guscio	865	864	787	791	4	20.0		
1322	Guscio	614	616	1265	1263	4	20.0		
1323	Guscio	690	694	692	686	4	20.0		
1324	Guscio	695	698	699	696	4	20.0		
1325	Guscio	56	1260	1259	57	4	20.0		
1326	Guscio	1290	1291	1296	1295	4	20.0		
1327	Guscio	1352	1365	1367	1357	4	20.0		
1328	Guscio	933	30	906	905	4	20.0		
1329	Guscio	908	907	900	899	4	20.0		
1330	Guscio	43	905	904	44	4	20.0		
1331	Guscio	746	745	833	835	4	20.0		
1332	Guscio	744	750	751	745	4	20.0		
1333	Guscio	726	732	733	727	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1334	Guscio	790	2085	788	789	4	20.0		
1335	Guscio	1348	1350	1355	1353	4	20.0		
1336	Guscio	714	718	719	715	4	20.0		
1337	Guscio	907	55	56	900	4	20.0		
1338	Guscio	906	54	55	907	4	20.0		
1339	Guscio	721	723	740	737	4	20.0		
1340	Guscio	737	740	738	735	4	20.0		
1341	Guscio	735	738	739	736	4	20.0		
1342	Guscio	736	739	794	798	4	20.0		
1343	Guscio	774	717	716	773	4	20.0		
1344	Guscio	732	735	736	733	4	20.0		
1345	Guscio	1312	1309	1310	1311	4	20.0		
1346	Guscio	1321	1306	1305	1323	4	20.0		
1347	Guscio	791	792	2085	790	4	20.0		
1348	Guscio	1336	1342	1371	1364	4	20.0		
1349	Guscio	843	846	844	841	4	20.0		
1350	Guscio	840	841	842	837	4	20.0		
1351	Guscio	759	758	755	752	4	20.0		
1352	Guscio	713	688	714	717	4	20.0		
1353	Guscio	743	51	52	741	4	20.0		
1354	Guscio	693	696	722	720	4	20.0		
1355	Guscio	1357	1367	1369	1362	4	20.0		
1356	Guscio	1283	1285	1290	1288	4	20.0		
1357	Guscio	1377	1380	1381	1382	4	20.0		
1358	Guscio	1380	1379	1383	1381	4	20.0		
1359	Guscio	709	707	691	711	4	20.0		
1360	Guscio	1335	1336	1364	1363	4	20.0		
1361	Guscio	836	834	839	838	4	20.0		
1362	Guscio	824	819	820	825	4	20.0		
1363	Guscio	1333	1334	1336	1335	4	20.0		
1364	Guscio	804	802	803	805	4	20.0		
1365	Guscio	1385	1389	1388	1378	4	20.0		
1366	Guscio	1303	1312	1311	1304	4	20.0		
1367	Guscio	754	762	828	827	4	20.0		
1368	Guscio	862	861	710	782	4	20.0		
1369	Guscio	861	860	708	710	4	20.0		
1370	Guscio	1334	1338	1342	1336	4	20.0		
1371	Guscio	694	697	695	692	4	20.0		
1373	Guscio	696	699	724	722	4	20.0		
1374	Guscio	822	804	805	823	4	20.0		
1375	Guscio	50	918	917	51	4	20.0		
1376	Guscio	1345	1346	1351	1350	4	20.0		
1377	Guscio	833	831	832	834	4	20.0		
1378	Guscio	925	62	923		4	20.0		
1379	Guscio	52	928	53		4	20.0		
1380	Guscio	683	684	685		4	20.0		
1381	Guscio	912	2086	59		4	20.0		
1382	Guscio	795	1645	797		4	20.0		
1383	Setto	1238	1240	1127	1126	4	20.0		
1384	Setto	1243	1178	1182	1242	4	20.0		
1385	Setto	1140	1256	1254	1146	4	20.0		
1386	Setto	1154	1232	1123	525	4	20.0		
1387	Setto	1873	1930	1931	1928	4	20.0		
1388	Setto	1125	1126	1933	1930	4	20.0		
1389	Setto	1124	1125	1930	1873	4	20.0		
1390	Setto	1234	1236	1125	1124	4	20.0		
1391	Setto	1146	1254	1233	1150	4	20.0		
1392	Setto	1150	1233	1232	1154	4	20.0		
1393	Setto	519	1941	1926	516	4	20.0		
1394	Setto	1941	1928	1929	1926	4	20.0		
1395	Setto	1969	1935	314	377	4	20.0		
1396	Setto	1239	1241	1240	1238	4	20.0		
1397	Setto	1236	1238	1126	1125	4	20.0		
1398	Setto	1127	1128	1905	1936	4	20.0		
1399	Setto	1936	1905	1904	1937	4	20.0		
1400	Setto	1256	1253	1255	1254	4	20.0		
1401	Setto	2080	2079	2061	1874	4	20.0		
1402	Setto	1242	1182	1184	1241	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1403	Setto	2079	1245	1239	2061	4	20.0		
1404	Setto	1928	1931	1969	1929	4	20.0		
1405	Setto	1247	1244	1243	1246	4	20.0		
1406	Setto	1250	1248	1249	1251	4	20.0		
1407	Setto	1959	1237	1942	1235	4	20.0		
1408	Setto	1246	1243	1242	1245	4	20.0		
1409	Setto	1938	1920	93	391	4	20.0		
1410	Setto	1933	1936	1937	1934	4	20.0		
1411	Setto	1237	2061	1943	1942	4	20.0		
1412	Setto	1926	1929	179	389	4	20.0		
1413	Setto	1235	1942	1236	1234	4	20.0		
1414	Setto	1930	1933	1934	1931	4	20.0		
1415	Setto	516	1926	389	390	4	20.0		
1416	Setto	1245	1242	1241	1239	4	20.0		
1417	Setto	1233	1235	1234	1232	4	20.0		
1418	Setto	525	1123	1967	522	4	20.0		
1419	Setto	1123	1124	1873	1967	4	20.0		
1420	Setto	1942	1943	1238	1236	4	20.0		
1421	Setto	1874	2061	1237	1959	4	20.0		
1422	Setto	1257	1252	1253	1256	4	20.0		
1423	Setto	1248	1247	1246	1249	4	20.0		
1424	Setto	1139	1257	1256	1140	4	20.0		
1425	Setto	1929	1969	377	179	4	20.0		
1426	Setto	2061	1239	1238	1943	4	20.0		
1427	Setto	1253	1251	2080	1255	4	20.0		
1428	Setto	1935	1938	391	314	4	20.0		
1429	Setto	1931	1934	1935	1969	4	20.0		
1430	Setto	1934	1937	1938	1935	4	20.0		
1431	Setto	1126	1127	1936	1933	4	20.0		
1432	Setto	1249	1246	1245	2079	4	20.0		
1433	Setto	1251	1249	2079	2080	4	20.0		
1434	Setto	1241	1184	1186	1240	4	20.0		
1435	Setto	1255	2080	1874	1959	4	20.0		
1436	Setto	1967	1873	1928	1941	4	20.0		
1437	Setto	1232	1234	1124	1123	4	20.0		
1438	Setto	1252	1250	1251	1253	4	20.0		
1439	Setto	1240	1186	1128	1127	4	20.0		
1440	Setto	522	1967	1941	519	4	20.0		
1441	Setto	1244	1179	1178	1243	4	20.0		
1442	Setto	1937	1904	1920	1938	4	20.0		
1443	Setto	1254	1255	1235	1233	4	20.0		
1444	Setto	1235	1255	1959		4	20.0		
1445	Setto	1743	1739	1420	1418	4	20.0		
1446	Setto	1739	1735	1422	1420	4	20.0		
1447	Setto	1727	1678	1428	1426	4	20.0		
1448	Setto	1741	1737	1738	1742	4	20.0		
1449	Setto	1745	1741	1742	1746	4	20.0		
1450	Setto	1759	1755	1412	1410	4	20.0		
1451	Setto	665	666	1956	1702	4	20.0		
1452	Setto	674	676	1736	1740	4	20.0		
1453	Setto	676	678	1732	1736	4	20.0		
1454	Setto	678	680	1950	1732	4	20.0		
1455	Setto	1950	1724	1725	1729	4	20.0		
1456	Setto	1731	1727	1426	1424	4	20.0		
1457	Setto	1751	1747	1416	1414	4	20.0		
1458	Setto	1738	1734	1735	1739	4	20.0		
1459	Setto	1750	1746	1747	1751	4	20.0		
1460	Setto	1742	1738	1739	1743	4	20.0		
1461	Setto	1744	1740	1741	1745	4	20.0		
1462	Setto	1734	1730	1731	1735	4	20.0		
1463	Setto	1736	1732	1733	1737	4	20.0		
1464	Setto	1733	1729	1730	1734	4	20.0		
1465	Setto	1737	1733	1734	1738	4	20.0		
1466	Setto	1755	1751	1414	1412	4	20.0		
1467	Setto	668	670	1958	1951	4	20.0		
1468	Setto	1753	1749	1750	1953	4	20.0		
1469	Setto	1956	1951	1753	1757	4	20.0		
1470	Setto	1953	1750	1751	1755	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1471	Setto	1746	1742	1743	1747	4	20.0		
1472	Setto	1747	1743	1418	1416	4	20.0		
1473	Setto	1729	1725	1726	1730	4	20.0		
1474	Setto	680	682	1724	1950	4	20.0		
1475	Setto	1951	1958	1749	1753	4	20.0		
1476	Setto	1730	1726	1727	1731	4	20.0		
1477	Setto	672	674	1740	1744	4	20.0		
1478	Setto	1740	1736	1737	1741	4	20.0		
1479	Setto	1726	1674	1678	1727	4	20.0		
1480	Setto	1958	1744	1745	1749	4	20.0		
1481	Setto	1735	1731	1424	1422	4	20.0		
1482	Setto	1732	1950	1729	1733	4	20.0		
1483	Setto	1948	1953	1755	1759	4	20.0		
1484	Setto	1702	1956	1757	1698	4	20.0		
1485	Setto	1724	1666	1670	1725	4	20.0		
1486	Setto	666	668	1951	1956	4	20.0		
1487	Setto	1749	1745	1746	1750	4	20.0		
1488	Setto	1757	1753	1953	1948	4	20.0		
1489	Setto	1698	1757	1948	1694	4	20.0		
1490	Setto	1725	1670	1674	1726	4	20.0		
1491	Setto	1690	1759	1410	1409	4	20.0		
1492	Setto	670	672	1744	1958	4	20.0		
1493	Setto	682	684	1666	1724	4	20.0		
1494	Setto	1694	1948	1759	1690	4	20.0		
1495	Setto	867	868	1682	1681	4	20.0		
1496	Setto	1681	1682	1723	1722	4	20.0		
1497	Setto	1722	1723	1721	1720	4	20.0		
1498	Setto	1720	1721	1719	1718	4	20.0		
1499	Setto	1718	1719	1548	1547	4	20.0		
1500	Setto	868	869	1683	1682	4	20.0		
1502	Setto	869	870	1684	1683	4	20.0		
1503	Setto	1716	1717	1715	1714	4	20.0		
1504	Setto	1714	1715	1552	1551	4	20.0		
1506	Setto	871	872	1685	1713	4	20.0		
1507	Setto	872	873	1686	1685	4	20.0		
1508	Setto	1685	1686	1712	1711	4	20.0		
1509	Setto	1711	1712	1710	1709	4	20.0		
1511	Setto	873	874	1687	1686	4	20.0		
1512	Setto	874	875	1688	1687	4	20.0		
1513	Setto	1687	1688	1708	1707	4	20.0		
1514	Setto	1707	1708	1706	1705	4	20.0		
1515	Setto	1705	1706	1560	1559	4	20.0		
1517	Setto	876	851	1703	1704	4	20.0		
1518	Setto	1704	1703	1699	1700	4	20.0		
1519	Setto	1700	1699	1695	1696	4	20.0		
1520	Setto	1696	1695	1691	1692	4	20.0		
1521	Setto	1692	1691	1624	1623	4	20.0		
1522	Setto	851	850	1701	1703	4	20.0		
1523	Setto	1703	1701	1697	1699	4	20.0		
1524	Setto	1699	1697	1693	1695	4	20.0		
1525	Setto	1695	1693	1689	1691	4	20.0		
1526	Setto	1691	1689	1625	1624	4	20.0		
1527	Setto	1689	1690	1409	1625	4	20.0		
1528	Setto	1693	1694	1690	1689	4	20.0		
1529	Setto	1697	1698	1694	1693	4	20.0		
1530	Setto	1701	1702	1698	1697	4	20.0		
1531	Setto	632	633	643	642	4	20.0		
1532	Setto	545	540	541	546	4	20.0		
1533	Setto	654	655	570	574	4	20.0		
1534	Setto	658	659	661	660	4	20.0		
1535	Setto	54	608	607	527	4	20.0		
1536	Setto	644	645	655	654	4	20.0		
1537	Setto	623	625	638	637	4	20.0		
1539	Setto	638	639	649	648	4	20.0		
1540	Setto	531	532	534	533	4	20.0		
1541	Setto	581	577	579	583	4	20.0		
1542	Setto	597	465	9	7	4	20.0		
1543	Setto	609	611	631	630	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1546	Setto	578	574	573	577	4	20.0		
1547	Setto	527	607	629	530	4	20.0		
1548	Setto	580	576	21	19	4	20.0		
1549	Setto	653	654	574	578	4	20.0		
1550	Setto	608	610	609	607	4	20.0		
1551	Setto	582	578	577	581	4	20.0		
1552	Setto	526	527	530	529	4	20.0		
1553	Setto	567	568	27	25	4	20.0		
1554	Setto	631	632	642	640	4	20.0		
1555	Setto	620	622	621	619	4	20.0		
1556	Guscio	926	60	925		4	20.0		
1557	Setto	528	54	527	526	4	20.0		
1558	Guscio	61	1284	1289		4	20.0		
1559	Setto	579	575	576	580	4	20.0		
1560	Setto	584	580	19	17	4	20.0		
1561	Setto	565	566	568	567	4	20.0		
1562	Setto	643	644	654	653	4	20.0		
1563	Setto	535	477	473	560	4	20.0		
1564	Guscio	870	769	760		4	20.0		
1565	Setto	32	31	898		4	20.0		
1567	Setto	642	643	653	652	4	20.0		
1568	Guscio	877	870	878		4	20.0		
1569	Setto	621	623	637	636	4	20.0		
1570	Setto	596	592	13	11	4	20.0		
1571	Setto	41	537	536	542	4	20.0		
1572	Setto	552	547	549	554	4	20.0		
1573	Setto	652	653	578	582	4	20.0		
1574	Setto	625	627	639	638	4	20.0		
1575	Guscio	60	1279	1284		4	20.0		
1576	Setto	615	617	634	633	4	20.0		
1577	Setto	469	595	596	465	4	20.0		
1578	Setto	611	613	632	631	4	20.0		
1579	Setto	646	647	657	656	4	20.0		
1580	Setto	564	563	562	561	4	20.0		
1581	Setto	633	634	644	643	4	20.0		
1582	Setto	614	616	615	613	4	20.0		
1583	Setto	634	635	645	644	4	20.0		
1584	Setto	635	636	646	645	4	20.0		
1585	Setto	657	658	660	563	4	20.0		
1586	Setto	656	657	563	564	4	20.0		
1587	Setto	547	542	543	549	4	20.0		
1588	Setto	641	640	650	651	4	20.0		
1589	Setto	589	585	587	591	4	20.0		
1590	Setto	536	526	529	538	4	20.0		
1591	Guscio	61	1289	62		4	20.0		
1592	Guscio	925	61	62		4	20.0		
1593	Guscio	850	153	2088		4	20.0		
1594	Setto	542	536	538	543	4	20.0		
1595	Setto	617	619	635	634	4	20.0		
1596	Setto	586	582	581	585	4	20.0		
1597	Setto	624	626	625	623	4	20.0		
1598	Setto	619	621	636	635	4	20.0		
1599	Setto	72	546	559	558	4	20.0		
1600	Setto	554	549	550	555	4	20.0		
1601	Setto	626	628	627	625	4	20.0		
1602	Setto	598	469	465	597	4	20.0		
1603	Setto	593	589	591	595	4	20.0		
1604	Setto	529	530	532	531	4	20.0		
1605	Setto	576	572	23	21	4	20.0		
1606	Setto	571	565	567	572	4	20.0		
1607	Setto	538	529	531	539	4	20.0		
1608	Setto	622	624	623	621	4	20.0		
1609	Setto	549	543	544	550	4	20.0		
1610	Setto	585	581	583	587	4	20.0		
1611	Setto	590	586	585	589	4	20.0		
1612	Setto	544	539	540	545	4	20.0		
1613	Setto	550	544	545	551	4	20.0		
1614	Setto	595	591	592	596	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1615	Setto	569	561	565	571	4	20.0		
1616	Setto	645	646	656	655	4	20.0		
1617	Setto	572	567	25	23	4	20.0		
1618	Setto	551	545	546	72	4	20.0		
1619	Setto	636	637	647	646	4	20.0		
1620	Setto	594	590	589	593	4	20.0		
1621	Setto	540	533	535	541	4	20.0		
1622	Setto	587	583	584	588	4	20.0		
1623	Setto	616	618	617	615	4	20.0		
1624	Setto	473	593	595	469	4	20.0		
1625	Setto	648	649	659	658	4	20.0		
1626	Setto	577	573	575	579	4	20.0		
1627	Setto	570	564	561	569	4	20.0		
1628	Setto	543	538	539	544	4	20.0		
1630	Setto	613	615	633	632	4	20.0		
1631	Setto	537	528	526	536	4	20.0		
1632	Setto	612	614	613	611	4	20.0		
1633	Setto	605	600	602	604	4	20.0		
1634	Setto	573	569	571	575	4	20.0		
1635	Setto	610	612	611	609	4	20.0		
1636	Setto	477	594	593	473	4	20.0		
1637	Setto	546	541	599	559	4	20.0		
1638	Setto	583	579	580	584	4	20.0		
1639	Setto	539	531	533	540	4	20.0		
1640	Setto	647	648	658	657	4	20.0		
1641	Setto	618	620	619	617	4	20.0		
1642	Guscio	664	850	2088		4	20.0		
1643	Setto	555	550	551	556	4	20.0		
1644	Setto	575	571	572	576	4	20.0		
1645	Setto	650	652	582	586	4	20.0		
1646	Setto	574	570	569	573	4	20.0		
1647	Setto	655	656	564	570	4	20.0		
1648	Setto	560	473	469	598	4	20.0		
1649	Setto	600	601	603	602	4	20.0		
1650	Setto	588	584	17	15	4	20.0		
1651	Setto	561	562	566	565	4	20.0		
1652	Setto	553	548	547	552	4	20.0		
1653	Setto	637	638	648	647	4	20.0		
1654	Setto	548	41	542	547	4	20.0		
1655	Setto	651	650	586	590	4	20.0		
1656	Setto	640	642	652	650	4	20.0		
1658	Setto	591	587	588	592	4	20.0		
1659	Setto	541	535	560	599	4	20.0		
1660	Setto	465	596	11	9	4	20.0		
1661	Setto	592	588	15	13	4	20.0		
1662	Setto	606	558	600	605	4	20.0		
1663	Guscio	925	60	1284		4	20.0		
1664	Setto	1767	1766	1781	1785	4	20.0		
1665	Setto	1787	1786	1761	1762	4	20.0		
1666	Setto	1798	1787	1762	1763	4	20.0		
1667	Setto	865	864	1770	1772	4	20.0		
1668	Setto	1765	1788	1789	1784	4	20.0		
1669	Setto	1766	1765	1784	1781	4	20.0		
1670	Setto	861	860	1765	1766	4	20.0		
1671	Setto	1785	1781	1782	1760	4	20.0		
1672	Setto	1773	1771	1629	1630	4	20.0		
1673	Setto	1788	1792	1793	1789	4	20.0		
1674	Setto	1769	1795	68	1628	4	20.0		
1675	Setto	1774	1772	1798	1778	4	20.0		
1676	Setto	1768	1767	1785	1786	4	20.0		
1677	Setto	1786	1785	1760	1761	4	20.0		
1678	Setto	1780	1763	1779	1783	4	20.0		
1679	Setto	1797	1801	1802	1764	4	20.0		
1680	Setto	1793	1797	1764	1794	4	20.0		
1681	Setto	1772	1770	1787	1798	4	20.0		
1682	Setto	867	866	1774	1681	4	20.0		
1683	Setto	1776	1775	1631	1632	4	20.0		
1684	Setto	1795	1799	936	68	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1685	Setto	1782	1791	1771	1773	4	20.0		
1686	Setto	1777	1776	1632	1633	4	20.0		
1687	Setto	1763	1762	1777	1779	4	20.0		
1688	Setto	1764	1802	1803	1799	4	20.0		
1689	Setto	1791	1790	1769	1771	4	20.0		
1690	Setto	1778	1798	1763	1780	4	20.0		
1691	Setto	1779	1777	1633	1618	4	20.0		
1692	Setto	1792	1796	1797	1793	4	20.0		
1693	Setto	858	857	1796	1792	4	20.0		
1694	Setto	1760	1782	1773	1775	4	20.0		
1695	Setto	1775	1773	1630	1631	4	20.0		
1696	Setto	859	858	1792	1788	4	20.0		
1697	Setto	1784	1789	1790	1791	4	20.0		
1698	Setto	860	859	1788	1765	4	20.0		
1699	Setto	862	861	1766	1767	4	20.0		
1700	Setto	1781	1784	1791	1782	4	20.0		
1701	Setto	1789	1793	1794	1790	4	20.0		
1702	Setto	1720	1780	1783	1718	4	20.0		
1703	Setto	1718	1783	1617	1547	4	20.0		
1704	Setto	1790	1794	1795	1769	4	20.0		
1705	Setto	1761	1760	1775	1776	4	20.0		
1706	Setto	857	44	1800	1796	4	20.0		
1707	Setto	1681	1774	1778	1722	4	20.0		
1708	Setto	1796	1800	1801	1797	4	20.0		
1710	Setto	1783	1779	1618	1617	4	20.0		
1711	Setto	864	863	1768	1770	4	20.0		
1712	Setto	1770	1768	1786	1787	4	20.0		
1713	Setto	866	865	1772	1774	4	20.0		
1714	Setto	863	862	1767	1768	4	20.0		
1715	Setto	1762	1761	1776	1777	4	20.0		
1716	Setto	1794	1764	1799	1795	4	20.0		
1717	Setto	1771	1769	1628	1629	4	20.0		
1718	Setto	1722	1778	1780	1720	4	20.0		
1719	Setto	562	1662	1663	566	4	20.0		
1720	Setto	1662	1657	1658	1663	4	20.0		
1721	Setto	566	1663	1664	568	4	20.0		
1722	Setto	1658	1659	1661	1660	4	20.0		
1723	Setto	1660	1661	370	348	4	20.0		
1724	Setto	1004	1005	1657	1662	4	20.0		
1725	Setto	568	1664	29	27	4	20.0		
1727	Setto	1005	1006	1656	1657	4	20.0		
1728	Setto	1663	1658	1660	1664	4	20.0		
1729	Setto	563	1004	1662	562	4	20.0		
1730	Setto	1664	1660	348	29	4	20.0		
1733	Setto	1516	1440	1945	1983	4	20.0		
1734	Setto	1960	1979	1980	1981	4	20.0		
1735	Setto	1517	1516	1983	1979	4	20.0		
1736	Setto	1979	1983	1984	1980	4	20.0		
1737	Setto	1535	1517	1979	1960	4	20.0		
1738	Setto	1985	1949	387	359	4	20.0		
1739	Setto	1980	1984	1985	1982	4	20.0		
1740	Setto	1984	1947	1949	1985	4	20.0		
1741	Setto	1978	1982	358	379	4	20.0		
1743	Setto	1982	1985	359	358	4	20.0		
1744	Setto	1983	1945	1947	1984	4	20.0		
1746	Setto	1668	1975	378	356	4	20.0		
1747	Setto	1528	1529	2081	1966	4	20.0		
1748	Setto	2081	2084	2082	1971	4	20.0		
1749	Setto	1530	1531	1964	2084	4	20.0		
1750	Setto	2067	1668	356	355	4	20.0		
1751	Setto	1966	2081	1971	1968	4	20.0		
1752	Setto	1968	1971	2067	1970	4	20.0		
1754	Setto	1529	1530	2084	2081	4	20.0		
1755	Setto	1971	2082	1668	2067	4	20.0		
1761	Setto	1977	1978	379	336	4	20.0		
1762	Setto	1976	1977	336	337	4	20.0		
1763	Setto	1975	1976	337	378	4	20.0		
1764	Setto	1993	1994	1999	1998	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1765	Setto	1990	1636	1641	1995	4	20.0		
1766	Setto	1998	1999	328	309	4	20.0		
1767	Setto	1528	1527	1986	1966	4	20.0		
1768	Setto	2000	1639	283	282	4	20.0		
1769	Setto	1999	2000	282	328	4	20.0		
1770	Setto	1526	1525	1988	1987	4	20.0		
1771	Setto	1966	1986	1991	1968	4	20.0		
1772	Setto	1991	1992	1997	1996	4	20.0		
1773	Setto	1997	1998	309	245	4	20.0		
1774	Setto	1994	1995	2000	1999	4	20.0		
1775	Setto	1995	1641	1639	2000	4	20.0		
1776	Setto	1992	1993	1998	1997	4	20.0		
1777	Setto	1527	1526	1987	1986	4	20.0		
1778	Setto	1524	1523	1990	1989	4	20.0		
1779	Setto	1996	1997	245	329	4	20.0		
1780	Setto	1986	1987	1992	1991	4	20.0		
1781	Setto	1523	66	1636	1990	4	20.0		
1782	Setto	1988	1989	1994	1993	4	20.0		
1783	Setto	1987	1988	1993	1992	4	20.0		
1784	Setto	1525	1524	1989	1988	4	20.0		
1786	Setto	1989	1990	1995	1994	4	20.0		
1787	Setto	1968	1991	1996	1970	4	20.0		
1788	Setto	942	943	1831	1849	4	20.0		
1789	Setto	946	942	1849	1847	4	20.0		
1790	Setto	948	946	1847	1848	4	20.0		
1791	Setto	1849	1831	1830	1846	4	20.0		
1792	Setto	1847	1849	1846	1844	4	20.0		
1793	Setto	1848	1847	1844	1845	4	20.0		
1794	Setto	1846	1830	1144	1405	4	20.0		
1795	Setto	1844	1846	1405	1404	4	20.0		
1796	Setto	1845	1844	1404	65	4	20.0		
1797	Setto	1138	1139	1140	1137	4	20.0		
1798	Setto	1142	1138	1137	1141	4	20.0		
1800	Setto	1405	1144	1143	1843	4	20.0		
1801	Setto	1404	1405	1843	1841	4	20.0		
1802	Setto	65	1404	1841	1842	4	20.0		
1803	Setto	1137	1140	1146	1145	4	20.0		
1804	Setto	1141	1137	1145	1147	4	20.0		
1805	Setto	1143	1141	1147	1148	4	20.0		
1806	Setto	1843	1143	1148	1840	4	20.0		
1807	Setto	1841	1843	1840	1838	4	20.0		
1808	Setto	1842	1841	1838	1839	4	20.0		
1809	Setto	1145	1146	1150	1149	4	20.0		
1810	Setto	1147	1145	1149	1151	4	20.0		
1811	Setto	1148	1147	1151	1152	4	20.0		
1812	Setto	1840	1148	1152	1837	4	20.0		
1813	Setto	1838	1840	1837	1835	4	20.0		
1814	Setto	1839	1838	1835	1836	4	20.0		
1815	Setto	1149	1150	1154	1153	4	20.0		
1816	Setto	1151	1149	1153	1155	4	20.0		
1817	Setto	1152	1151	1155	1156	4	20.0		
1818	Setto	1837	1152	1156	1834	4	20.0		
1819	Setto	1835	1837	1834	1832	4	20.0		
1820	Setto	1836	1835	1832	1833	4	20.0		
1821	Setto	1153	1154	525	524	4	20.0		
1822	Setto	1155	1153	524	523	4	20.0		
1823	Setto	1156	1155	523	511	4	20.0		
1824	Setto	1834	1156	511	507	4	20.0		
1825	Setto	1832	1834	507	503	4	20.0		
1827	Setto	524	525	522	521	4	20.0		
1828	Setto	523	524	521	520	4	20.0		
1829	Setto	511	523	520	510	4	20.0		
1830	Setto	507	511	510	506	4	20.0		
1831	Setto	503	507	506	502	4	20.0		
1832	Setto	499	503	502	498	4	20.0		
1834	Setto	494	498	500	496	4	20.0		
1835	Setto	498	502	504	500	4	20.0		
1836	Setto	502	506	508	504	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1837	Setto	506	510	512	508	4	20.0		
1838	Setto	510	520	517	512	4	20.0		
1839	Setto	520	521	518	517	4	20.0		
1840	Setto	521	522	519	518	4	20.0		
1841	Setto	518	519	516	515	4	20.0		
1842	Setto	517	518	515	514	4	20.0		
1843	Setto	512	517	514	513	4	20.0		
1844	Setto	508	512	513	509	4	20.0		
1845	Setto	504	508	509	505	4	20.0		
1846	Setto	500	504	505	501	4	20.0		
1847	Setto	496	500	501	497	4	20.0		
1848	Setto	515	516	390	372	4	20.0		
1849	Setto	514	515	372	362	4	20.0		
1850	Setto	513	514	362	87	4	20.0		
1851	Setto	509	513	87	82	4	20.0		
1852	Setto	505	509	82	77	4	20.0		
1853	Setto	501	505	77	88	4	20.0		
1854	Setto	497	501	88	115	4	20.0		
1855	Setto	492	497	115	112	4	20.0		
1856	Setto	490	496	497	492	4	20.0		
1857	Setto	488	494	496	490	4	20.0		
1858	Setto	489	495	494	488	4	20.0		
1859	Setto	493	492	112	122	4	20.0		
1860	Setto	491	490	492	493	4	20.0		
1861	Setto	486	488	490	491	4	20.0		
1862	Setto	487	489	488	486	4	20.0		
1863	Setto	459	487	486	460	4	20.0		
1864	Setto	460	486	491	485	4	20.0		
1865	Setto	485	491	493	482	4	20.0		
1866	Setto	482	493	122	164	4	20.0		
1867	Setto	480	482	164	148	4	20.0		
1868	Setto	483	485	482	480	4	20.0		
1869	Setto	461	460	485	483	4	20.0		
1870	Setto	458	459	460	461	4	20.0		
1872	Setto	1161	1162	1166	1165	4	20.0		
1873	Setto	1157	1158	1162	1161	4	20.0		
1874	Setto	60	61	1158	1157	4	20.0		
1875	Setto	59	60	1157	1159	4	20.0		
1876	Setto	1159	1157	1161	1163	4	20.0		
1877	Setto	1163	1161	1165	1167	4	20.0		
1878	Setto	1167	1165	458	462	4	20.0		
1879	Setto	462	458	461	463	4	20.0		
1880	Setto	463	461	483	484	4	20.0		
1881	Setto	484	483	480	481	4	20.0		
1882	Setto	481	480	148	145	4	20.0		
1883	Setto	467	481	145	308	4	20.0		
1884	Setto	471	484	481	467	4	20.0		
1885	Setto	475	463	484	471	4	20.0		
1886	Setto	479	462	463	475	4	20.0		
1888	Setto	1164	1163	1167	1168	4	20.0		
1889	Setto	1160	1159	1163	1164	4	20.0		
1890	Setto	58	59	1159	1160	4	20.0		
1891	Setto	478	479	475	474	4	20.0		
1892	Setto	476	478	474	472	4	20.0		
1893	Setto	477	476	472	473	4	20.0		
1894	Setto	466	467	308	341	4	20.0		
1895	Setto	470	471	467	466	4	20.0		
1896	Setto	474	475	471	470	4	20.0		
1897	Setto	464	466	341	33	4	20.0		
1898	Setto	465	464	33	9	4	20.0		
1899	Setto	469	468	464	465	4	20.0		
1900	Setto	473	472	468	469	4	20.0		
1901	Setto	468	470	466	464	4	20.0		
1902	Setto	472	474	470	468	4	20.0		
1903	Setto	1440	1439	1758	1945	4	20.0		
1904	Setto	1945	1758	446	1947	4	20.0		
1905	Setto	1947	446	450	1949	4	20.0		
1906	Setto	1949	450	360	387	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1907	Setto	1439	1441	452	1758	4	20.0		
1910	Setto	450	456	375	360	4	20.0		
1917	Setto	1955	1952	374	272	4	20.0		
1920	Setto	1446	445	443	855	4	20.0		
1921	Setto	855	443	441	1944	4	20.0		
1922	Setto	1946	1954	271	376	4	20.0		
1924	Setto	1944	441	439	1952	4	20.0		
1925	Setto	1952	439	388	374	4	20.0		
1927	Setto	1857	1756	1872	1855	4	20.0		
1928	Setto	1728	1673	1438	445	4	20.0		
1929	Setto	1642	1671	1673	1728	4	20.0		
1930	Setto	1852	1748	1756	1857	4	20.0		
1931	Setto	1637	1669	1671	1642	4	20.0		
1932	Setto	1872	1680	1754	449	4	20.0		
1933	Setto	1671	1674	1678	1673	4	20.0		
1934	Setto	1647	1813	1811	1646	4	20.0		
1935	Setto	451	1876	1877	453	4	20.0		
1936	Setto	440	441	439	438	4	20.0		
1937	Setto	1752	443	441	440	4	20.0		
1938	Setto	447	1875	1876	451	4	20.0		
1939	Setto	1878	1644	1638	1675	4	20.0		
1940	Setto	958	956	1647	1667	4	20.0		
1941	Setto	1875	1752	440	1876	4	20.0		
1942	Setto	1754	445	442		4	20.0		
1943	Setto	1876	440	438	1877	4	20.0		
1944	Setto	852	684	1666	1665	4	20.0		
1945	Setto	1679	1878	1675	1748	4	20.0		
1946	Setto	956	957	1813	1647	4	20.0		
1947	Setto	1877	438	83	85	4	20.0		
1948	Setto	1673	1678	1428	1438	4	20.0		
1949	Setto	1644	1643	1637	1638	4	20.0		
1950	Setto	1669	1670	1674	1671	4	20.0		
1951	Setto	1677	1645	1878	1679	4	20.0		
1952	Setto	1645	854	1644	1878	4	20.0		
1953	Setto	1748	1675	1638	1756	4	20.0		
1954	Setto	853	852	1665	1643	4	20.0		
1955	Setto	959	958	1667	1869	4	20.0		
1956	Setto	1665	1666	1670	1669	4	20.0		
1957	Setto	1855	1872	449	448	4	20.0		
1958	Setto	53	1677	1679	1850	4	20.0		
1959	Setto	1850	1679	1748	1852	4	20.0		
1960	Setto	449	1754	1752	1875	4	20.0		
1961	Setto	438	439	388	92	4	20.0		
1962	Setto	453	1877	85	90	4	20.0		
1963	Setto	1865	1640	1677	53	4	20.0		
1964	Setto	1640	1646	1645	1677	4	20.0		
1965	Setto	1643	1665	1669	1637	4	20.0		
1966	Setto	1667	1647	1646	1640	4	20.0		
1967	Setto	1680	1728	445	1754	4	20.0		
1968	Setto	1646	1811	854	1645	4	20.0		
1969	Setto	854	853	1643	1644	4	20.0		
1970	Setto	1676	1637	1642	1680	4	20.0		
1971	Setto	1756	1638	1676	1872	4	20.0		
1972	Setto	448	449	1875	447	4	20.0		
1973	Setto	1869	1667	1640	1865	4	20.0		
1974	Setto	1680	1642	1728		4	20.0		
1975	Setto	83	438	92		4	20.0		
1976	Guscio	883	876	884		4	20.0		
1977	Guscio	851	838	153		4	20.0		
1978	Guscio	887	851	153		4	20.0		
1979	Guscio	884	851	887		4	20.0		
1980	Guscio	666	1672	667		4	20.0		
1981	Setto	1872	1676	1680		4	20.0		
1982	Guscio	1672	668	667		4	20.0		
1983	Guscio	57	2010	58		4	20.0		
1984	Guscio	909	58	2010		4	20.0		
1985	Guscio	901	58	909		4	20.0		
1986	Guscio	874	746	835		4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
1987	Guscio	873	747	746	874	4	20.0		
1988	Guscio	881	874	882		4	20.0		
1989	Guscio	882	875	876	883	4	20.0		
1990	Guscio	882	874	875		4	20.0		
1991	Guscio	926	59	2086		4	20.0		
1992	Guscio	678	815	680		4	20.0		
1993	Guscio	871	749	872	879	4	20.0		
1994	Guscio	879	872	880		4	20.0		
1995	Guscio	662	666	667		4	20.0		
1996	Guscio	876	836	838		4	20.0		
1997	Guscio	875	835	836	876	4	20.0		
1998	Guscio	665	2088	662		4	20.0		
1999	Guscio	663	665	662		4	20.0		
2000	Guscio	664	665	663		4	20.0		
2001	Guscio	872	749	747		4	20.0		
2002	Guscio	672	826	674		4	20.0		
2003	Guscio	672	674	675	673	4	20.0		
2004	Guscio	674	676	677	675	4	20.0		
2005	Guscio	826	821	676	674	4	20.0		
2006	Guscio	676	678	679	677	4	20.0		
2007	Guscio	676	818	678		4	20.0		
2008	Guscio	678	680	681	679	4	20.0		
2009	Guscio	680	814	682		4	20.0		
2010	Guscio	680	682	683		4	20.0		
2011	Guscio	814	852	682		4	20.0		
2021	Setto	1651	447	451	1652	4	20.0		
2022	Setto	1648	1651	1652	1649	4	20.0		
2023	Setto	1639	1883	285	283	4	20.0		
2024	Setto	1521	1520	1880	1879	4	20.0		
2025	Setto	1653	453	90	262	4	20.0		
2026	Setto	1882	1881	1932	1925	4	20.0		
2027	Setto	1879	1880	1881	1882	4	20.0		
2028	Setto	1641	1924	1883	1639	4	20.0		
2029	Setto	1932	1650	261	259	4	20.0		
2030	Setto	66	1522	1927	1636	4	20.0		
2031	Setto	1927	1879	1882	1924	4	20.0		
2032	Setto	1519	1518	1651	1648	4	20.0		
2033	Setto	1881	1649	1650	1932	4	20.0		
2034	Setto	1652	451	453	1653	4	20.0		
2035	Setto	1880	1648	1649	1881	4	20.0		
2036	Setto	1520	1519	1648	1880	4	20.0		
2037	Setto	1522	1521	1879	1927	4	20.0		
2038	Setto	1650	1653	262	261	4	20.0		
2039	Setto	1883	1925	260	285	4	20.0		
2040	Setto	1924	1882	1925	1883	4	20.0		
2041	Setto	1649	1652	1653	1650	4	20.0		
2042	Setto	1636	1927	1924	1641	4	20.0		
2043	Setto	1925	1932	259	260	4	20.0		
2044	Setto	1518	448	447	1651	4	20.0		
2045	Setto	893	1972	1973	891	4	20.0		
2046	Setto	898	894	892	897	4	20.0		
2047	Setto	558	896	71	72	4	20.0		
2048	Setto	897	892	890	896	4	20.0		
2049	Setto	151	167	1965	895	4	20.0		
2050	Setto	890	891	69	70	4	20.0		
2051	Setto	3	32	898	602	4	20.0		
2052	Setto	1973	1636	66	67	4	20.0		
2053	Setto	892	893	891	890	4	20.0		
2054	Setto	894	895	893	892	4	20.0		
2055	Setto	1972	1641	1636	1973	4	20.0		
2056	Setto	895	1965	1972	893	4	20.0		
2057	Setto	891	1973	67	68	4	20.0		
2058	Setto	1965	1639	1641	1972	4	20.0		
2059	Setto	154	151	895	894	4	20.0		
2060	Setto	31	154	894	898	4	20.0		
2061	Setto	602	898	897	600	4	20.0		
2062	Setto	896	890	70	71	4	20.0		
2063	Setto	600	897	896	558	4	20.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
2064	Setto	69	891	68		4	20.0		
2065	Setto	1965	283	1639		4	20.0		
2066	Setto	1823	511	510	1891	4	20.0		
2067	Setto	1815	1823	1891	1892	4	20.0		
2068	Setto	1805	1815	1892	1893	4	20.0		
2069	Setto	444	1805	1893	442	4	20.0		
2070	Setto	1891	510	512	1894	4	20.0		
2071	Setto	1892	1891	1894	1895	4	20.0		
2072	Setto	1893	1892	1895	1896	4	20.0		
2073	Setto	442	1893	1896	440	4	20.0		
2074	Setto	1894	512	513	1897	4	20.0		
2075	Setto	1895	1894	1897	1898	4	20.0		
2076	Setto	1896	1895	1898	1899	4	20.0		
2077	Setto	440	1896	1899	438	4	20.0		
2078	Setto	1897	513	87	86	4	20.0		
2079	Setto	1898	1897	86	78	4	20.0		
2080	Setto	1899	1898	78	91	4	20.0		
2081	Setto	438	1899	91	92	4	20.0		
2082	Setto	1889	501	88	74	4	20.0		
2083	Setto	1890	500	501	1889	4	20.0		
2084	Setto	1884	498	500	1890	4	20.0		
2085	Setto	999	499	498	1884	4	20.0		
2086	Setto	448	997	1885	447	4	20.0		
2088	Setto	451	1887	1886	453	4	20.0		
2089	Setto	453	1886	89	90	4	20.0		
2090	Setto	997	998	1888	1885	4	20.0		
2091	Setto	998	999	1884	1888	4	20.0		
2092	Setto	947	948	1848	1871	4	20.0		
2093	Setto	951	947	1871	1870	4	20.0		
2094	Setto	955	951	1870	1868	4	20.0		
2095	Setto	959	955	1868	1869	4	20.0		
2096	Setto	1871	1848	1845	1867	4	20.0		
2097	Setto	1870	1871	1867	1866	4	20.0		
2098	Setto	1868	1870	1866	1864	4	20.0		
2099	Setto	1869	1868	1864	1865	4	20.0		
2100	Setto	1867	1845	65	932	4	20.0		
2101	Setto	1866	1867	932	931	4	20.0		
2102	Setto	1864	1866	931	930	4	20.0		
2103	Setto	1865	1864	930	53	4	20.0		
2105	Setto	1857	1856	1854	1855	4	20.0		
2106	Setto	1852	1853	1856	1857	4	20.0		
2107	Setto	1850	1851	1853	1852	4	20.0		
2108	Setto	53	930	1851	1850	4	20.0		
2109	Setto	930	931	1860	1851	4	20.0		
2110	Setto	931	932	1861	1860	4	20.0		
2111	Setto	932	65	1858	1861	4	20.0		
2112	Setto	1858	65	1842		4	20.0		
2113	Setto	1858	1842	1839	1859	4	20.0		
2114	Setto	1861	1858	1859		4	20.0		
2116	Setto	1863	1836	1833	1862	4	20.0		
2118	Setto	1853	1851	1859		4	20.0		
2119	Setto	1860	1861	1859		4	20.0		
2120	Setto	1851	1860	1859		4	20.0		
2121	Setto	944	943	1831	1829	4	20.0		
2122	Setto	949	944	1829	1821	4	20.0		
2123	Setto	1829	1831	1830	1828	4	20.0		
2124	Setto	1828	1830	1144	1827	4	20.0		
2125	Setto	1827	1144	1143	1826	4	20.0		
2126	Setto	1826	1143	1148	1825	4	20.0		
2127	Setto	1825	1148	1152	1824	4	20.0		
2128	Setto	1824	1152	1156	1822	4	20.0		
2129	Setto	1822	1156	511	1823	4	20.0		
2130	Setto	957	953	1812	1813	4	20.0		
2131	Setto	953	949	1821	1812	4	20.0		
2132	Setto	1813	1812	1810	1811	4	20.0		
2133	Setto	1812	1821	1820	1810	4	20.0		
2134	Setto	1821	1829	1828	1820	4	20.0		
2135	Guscio	682	852	684	683	4	20.0		

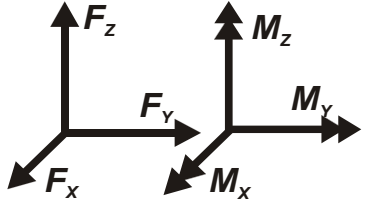
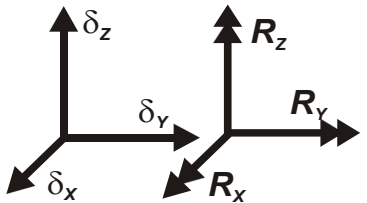
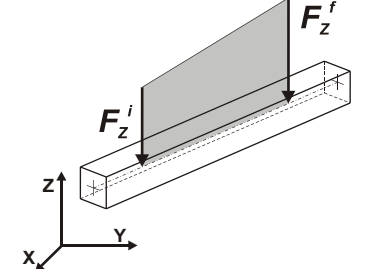
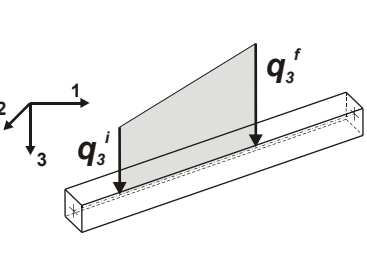
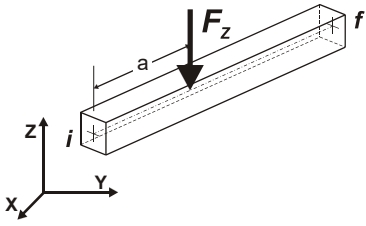
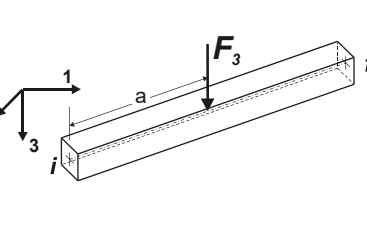
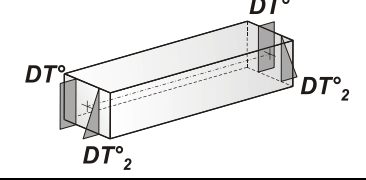
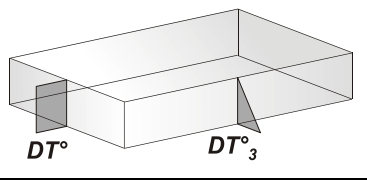
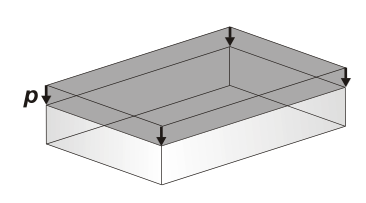
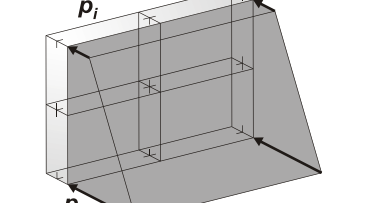
Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
2136	Setto	1811	1820	1810		4	20.0		
2137	Setto	1820	1828	1827	1819	4	20.0		
2138	Setto	1819	1827	1826	1818	4	20.0		
2141	Setto	1818	1826	1825	1817	4	20.0		
2142	Setto	1817	1825	1824	1816	4	20.0		
2143	Setto	1808	1818	1817	1807	4	20.0		
2144	Setto	1807	1817	1816	1806	4	20.0		
2145	Setto	1644	1808	1807	1638	4	20.0		
2146	Setto	1638	1807	1806	1676	4	20.0		
2147	Setto	1816	1824	1822	1814	4	20.0		
2148	Setto	1806	1816	1814	1804	4	20.0		
2149	Setto	1676	1806	1804	1680	4	20.0		
2150	Setto	1814	1822	1823	1815	4	20.0		
2151	Setto	1804	1814	1815	1805	4	20.0		
2152	Guscio	795	1677	1645		4	20.0		
2153	Guscio	885	869	886		4	20.0		
2154	Guscio	930	927	931		4	20.0		
2155	Guscio	479	2075	462		4	24.0		
2156	Guscio	2075	1091	462		4	24.0		
2157	Guscio	2071	479	462		4	24.0		
2158	Guscio	2077	479	2071		4	24.0		
2159	Guscio	2077	986	479		4	24.0		
2160	Setto	442	445	443		4	20.0		
2161	Setto	442	443	1752		4	20.0		
2162	Setto	1638	1637	1676		4	20.0		
2163	Setto	1965	167	283		4	20.0		

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 Fx, Fy, Fz, momento Mx, My, Mz)
2	spostamento nodale impresso 6 dati (spostamento Tx, Ty, Tz, rotazione Rx, Ry, Rz)
3	carico distribuito globale su elemento tipo trave 7 dati (fx, fy, fz, mx, my, mz, ascissa di inizio carico) 7 dati (fx, fy, fz, mx, my, mz, ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati (f1, f2, f3, m1, m2, m3, ascissa di inizio carico) 7 dati (f1, f2, f3, m1, m2, m3, ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati (Fx, Fy, Fz, Mx, My, Mz, ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati (F1, F2, F3, M1, M2, M3, 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 variabile generale
------	---------------------------

Id	Tipo	ascissa	valore	ascissa	valore
		cm	daN/cm2	cm	daN/cm2
1	permanente portato				
	X - X Qz Area L2=0.0	-5.000e+05	-0.02	5.000e+05	-0.02
2	permanente portato copertura				
	X - X Qz Area L2=0.0	-1.000e+05	-0.01	1.000e+05	-0.01
3	variabile solaio p1				
	X - X Qz Area L2=0.0	-1.000e+05	-0.03	1.000e+05	-0.03
4	variabile				

Id	Tipo	ascissa	valore	ascissa	valore
	solaio ppop-NEVE				
	X - X Qz Proiez. L2=0.0	-1.000e+05	-0.01	1.000e+05	-0.01

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	Qsk	CDC=Qsk (variabile solai)	
4	Qnk	CDC=Qnk (carico da neve)	
5	Edk	CDC=Ed (dinamico 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=Qsk (variabile solai)
			partecipazione:1.00 per 4 CDC=Qnk (carico da neve)
			partecipazione:1.00 per 13 CDC=G1k (permanente generico)
			partecipazione:0.80 per 14 CDC=Qk (variabile generico)
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
7	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. +)	come precedente CDC sismico

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. -)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. +)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. -)	come precedente CDC sismico
13	Gk	CDC=G1k (permanente generico)	D3 : 396 Azione : permanente portato
			D3 : 414 Azione : permanente portato
			D3 :da 416 a 497 Azione : permanente portato
			D3 : 498 Azione : permanente portato copertura
			D3 :da 499 a 536 Azione : permanente portato
			D3 :da 538 a 632 Azione : permanente portato
			D3 :da 634 a 721 Azione : permanente portato
			D3 :da 723 a 788 Azione : permanente portato
			D3 :da 790 a 803 Azione : permanente portato
			D3 : 804 Azione : permanente portato copertura
			D3 :da 805 a 813 Azione : permanente portato
			D3 :da 815 a 865 Azione : permanente portato
			D3 :da 867 a 871 Azione : permanente portato
			D3 : 876 Azione : permanente portato copertura
			D3 : 882 Azione : permanente portato copertura
			D3 : 889 Azione : permanente portato copertura
			D3 : 891 Azione : permanente portato copertura
			D3 : 915 Azione : permanente portato copertura
			D3 : 917 Azione : permanente portato copertura
			D3 : 922 Azione : permanente portato copertura
			D3 : 941 Azione : permanente portato copertura
			D3 : 957 Azione : permanente portato copertura
			D3 :da 968 a 1073 Azione : permanente portato copertura
			D3 :da 1076 a 1091 Azione : permanente portato copertura
			D3 :da 1093 a 1143 Azione : permanente portato copertura
			D3 :da 1145 a 1198 Azione : permanente portato copertura
			D3 :da 1200 a 1220 Azione : permanente portato copertura
			D3 :da 1222 a 1234 Azione : permanente portato copertura
			D3 :da 1236 a 1255 Azione : permanente portato copertura
			D3 :da 1257 a 1276 Azione : permanente portato copertura
			D3 :da 1278 a 1371 Azione : permanente portato copertura
			D3 :da 1373 a 1382 Azione : permanente portato copertura
			D3 : 1556 Azione : permanente portato copertura
			D3 : 1558 Azione : permanente portato copertura
			D3 : 1564 Azione : permanente portato copertura
			D3 : 1568 Azione : permanente portato copertura
			D3 : 1575 Azione : permanente portato copertura
			D3 :da 1591 a 1593 Azione : permanente portato copertura
			D3 : 1642 Azione : permanente portato copertura
			D3 : 1663 Azione : permanente portato copertura
			D3 :da 1976 a 1980 Azione : permanente portato copertura
			D3 :da 1982 a 2011 Azione : permanente portato copertura
			D3 : 2135 Azione : permanente portato copertura
			D3 :da 2152 a 2154 Azione : permanente portato copertura
			D3 :da 2155 a 2159 Azione : permanente portato
14	Qk	CDC=Qk (variabile generico)	D3 : 396 Azione : variabile solaio p1
			D3 : 414 Azione : variabile solaio p1
			D3 :da 416 a 497 Azione : variabile solaio p1
			D3 : 498 Azione : variabile solaio pcoop-NEVE
			D3 :da 499 a 536 Azione : variabile solaio p1
			D3 :da 538 a 632 Azione : variabile solaio p1
			D3 :da 634 a 721 Azione : variabile solaio p1
			D3 :da 723 a 788 Azione : variabile solaio p1

CDC	Tipo	Sigla Id	Note
			D3 :da 790 a 803 Azione : variabile solaio p1
			D3 : 804 Azione : variabile solaio p1
			D3 :da 805 a 813 Azione : variabile solaio p1
			D3 :da 815 a 865 Azione : variabile solaio p1
			D3 :da 867 a 871 Azione : variabile solaio p1
			D3 : 876 Azione : variabile solaio p1
			D3 : 882 Azione : variabile solaio p1
			D3 : 889 Azione : variabile solaio p1
			D3 : 891 Azione : variabile solaio p1
			D3 : 915 Azione : variabile solaio p1
			D3 : 917 Azione : variabile solaio p1
			D3 : 922 Azione : variabile solaio p1
			D3 : 941 Azione : variabile solaio p1
			D3 : 957 Azione : variabile solaio p1
			D3 :da 968 a 1073 Azione : variabile solaio p1
			D3 :da 1076 a 1091 Azione : variabile solaio p1
			D3 :da 1093 a 1143 Azione : variabile solaio p1
			D3 :da 1145 a 1198 Azione : variabile solaio p1
			D3 :da 1200 a 1220 Azione : variabile solaio p1
			D3 :da 1222 a 1234 Azione : variabile solaio p1
			D3 :da 1236 a 1255 Azione : variabile solaio p1
			D3 :da 1257 a 1276 Azione : variabile solaio p1
			D3 :da 1278 a 1371 Azione : variabile solaio p1
			D3 :da 1373 a 1382 Azione : variabile solaio p1
			D3 : 1556 Azione : variabile solaio p1
			D3 : 1558 Azione : variabile solaio p1
			D3 : 1564 Azione : variabile solaio p1
			D3 : 1568 Azione : variabile solaio p1
			D3 : 1575 Azione : variabile solaio p1
			D3 :da 1591 a 1593 Azione : variabile solaio p1
			D3 : 1642 Azione : variabile solaio p1
			D3 : 1663 Azione : variabile solaio p1
			D3 :da 1976 a 1980 Azione : variabile solaio p1
			D3 :da 1982 a 2011 Azione : variabile solaio p1
			D3 : 2135 Azione : variabile solaio p1
			D3 :da 2152 a 2154 Azione : variabile solaio p1
			D3 :da 2155 a 2159 Azione : variabile solaio p1

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

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

Dove:

NTC 2008 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 ≤ 30 kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30 kN)	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 ≤ 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 2008 Tabella 2.6.1

		Coefficiente γf	EQU	A1	A2
Carichi permanenti	Favorevoli	$\gamma G1$	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	$\gamma G2$	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γQi	0,0	0,0	0,0
	Sfavorevoli		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 (Terr. A2)	Comb. SLU A2 13	
14	SLU (Terr. A2)	Comb. SLU A2 14	
15	SLU (Terr. A2)	Comb. SLU A2 15	
16	SLU (Terr. A2)	Comb. SLU A2 16	
17	SLU (Terr. A2)	Comb. SLU A2 17	
18	SLU (Terr. A2)	Comb. SLU A2 18	
19	SLU (Terr. G)	Comb. SLU TIPO EQU 19	
20	SLU (Terr. G)	Comb. SLU TIPO EQU 20	
21	SLU (Terr. G)	Comb. SLU TIPO EQU 21	
22	SLU (Terr. G)	Comb. SLU TIPO EQU 22	
23	SLU (Terr. G)	Comb. SLU TIPO EQU 23	
24	SLU (Terr. G)	Comb. SLU TIPO EQU 24	
25	SLU (Terr. G)	Comb. SLU TIPO EQU 25	
26	SLU (Terr. G)	Comb. SLU TIPO EQU 26	
27	SLU (Terr. G)	Comb. SLU TIPO EQU 27	
28	SLU (Terr. G)	Comb. SLU TIPO EQU 28	
29	SLU (Terr. G)	Comb. SLU TIPO EQU 29	
30	SLU (Terr. G)	Comb. SLU TIPO EQU 30	
31	SLE(r)	Comb. SLE(rara) 31	
32	SLE(r)	Comb. SLE(rara) 32	
33	SLE(r)	Comb. SLE(rara) 33	
34	SLE(r)	Comb. SLE(rara) 34	
35	SLE(r)	Comb. SLE(rara) 35	
36	SLE(r)	Comb. SLE(rara) 36	
37	SLE(f)	Comb. SLE(freq.) 37	
38	SLE(f)	Comb. SLE(freq.) 38	
39	SLE(f)	Comb. SLE(freq.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLU	Comb. SLU A1 (SLV sism.) 41	
42	SLU	Comb. SLU A1 (SLV sism.) 42	
43	SLU	Comb. SLU A1 (SLV sism.) 43	
44	SLU	Comb. SLU A1 (SLV sism.) 44	
45	SLU	Comb. SLU A1 (SLV sism.) 45	
46	SLU	Comb. SLU A1 (SLV sism.) 46	
47	SLU	Comb. SLU A1 (SLV sism.) 47	
48	SLU	Comb. SLU A1 (SLV sism.) 48	
49	SLU	Comb. SLU A1 (SLV sism.) 49	
50	SLU	Comb. SLU A1 (SLV sism.) 50	
51	SLU	Comb. SLU A1 (SLV sism.) 51	
52	SLU	Comb. SLU A1 (SLV sism.) 52	
53	SLU	Comb. SLU A1 (SLV sism.) 53	
54	SLU	Comb. SLU A1 (SLV sism.) 54	
55	SLU	Comb. SLU A1 (SLV sism.) 55	
56	SLU	Comb. SLU A1 (SLV sism.) 56	
57	SLU	Comb. SLU A1 (SLV sism.) 57	
58	SLU	Comb. SLU A1 (SLV sism.) 58	
59	SLU	Comb. SLU A1 (SLV sism.) 59	
60	SLU	Comb. SLU A1 (SLV sism.) 60	
61	SLU	Comb. SLU A1 (SLV sism.) 61	
62	SLU	Comb. SLU A1 (SLV sism.) 62	
63	SLU	Comb. SLU A1 (SLV sism.) 63	
64	SLU	Comb. SLU A1 (SLV sism.) 64	
65	SLU	Comb. SLU A1 (SLV sism.) 65	

Cmb	Tipo	Sigla Id	effetto P-delta
66	SLU	Comb. SLU A1 (SLV sism.) 66	
67	SLU	Comb. SLU A1 (SLV sism.) 67	
68	SLU	Comb. SLU A1 (SLV sism.) 68	
69	SLU	Comb. SLU A1 (SLV sism.) 69	
70	SLU	Comb. SLU A1 (SLV sism.) 70	
71	SLU	Comb. SLU A1 (SLV sism.) 71	
72	SLD(sis)	Comb. SLE (SLO Operativo sism.) 72	
73	SLD(sis)	Comb. SLE (SLO Operativo sism.) 73	
74	SLD(sis)	Comb. SLE (SLO Operativo sism.) 74	
75	SLD(sis)	Comb. SLE (SLO Operativo sism.) 75	
76	SLD(sis)	Comb. SLE (SLO Operativo sism.) 76	
77	SLD(sis)	Comb. SLE (SLO Operativo sism.) 77	
78	SLD(sis)	Comb. SLE (SLO Operativo sism.) 78	
79	SLD(sis)	Comb. SLE (SLO Operativo sism.) 79	
80	SLD(sis)	Comb. SLE (SLO Operativo sism.) 80	
81	SLD(sis)	Comb. SLE (SLO Operativo sism.) 81	
82	SLD(sis)	Comb. SLE (SLO Operativo sism.) 82	
83	SLD(sis)	Comb. SLE (SLO Operativo sism.) 83	
84	SLD(sis)	Comb. SLE (SLO Operativo sism.) 84	
85	SLD(sis)	Comb. SLE (SLO Operativo sism.) 85	
86	SLD(sis)	Comb. SLE (SLO Operativo sism.) 86	
87	SLD(sis)	Comb. SLE (SLO Operativo sism.) 87	
88	SLD(sis)	Comb. SLE (SLO Operativo sism.) 88	
89	SLD(sis)	Comb. SLE (SLO Operativo sism.) 89	
90	SLD(sis)	Comb. SLE (SLO Operativo sism.) 90	
91	SLD(sis)	Comb. SLE (SLO Operativo sism.) 91	
92	SLD(sis)	Comb. SLE (SLO Operativo sism.) 92	
93	SLD(sis)	Comb. SLE (SLO Operativo sism.) 93	
94	SLD(sis)	Comb. SLE (SLO Operativo sism.) 94	
95	SLD(sis)	Comb. SLE (SLO Operativo sism.) 95	
96	SLD(sis)	Comb. SLE (SLO Operativo sism.) 96	
97	SLD(sis)	Comb. SLE (SLO Operativo sism.) 97	
98	SLD(sis)	Comb. SLE (SLO Operativo sism.) 98	
99	SLD(sis)	Comb. SLE (SLO Operativo sism.) 99	
100	SLD(sis)	Comb. SLE (SLO Operativo sism.) 100	
101	SLD(sis)	Comb. SLE (SLO Operativo sism.) 101	
102	SLD(sis)	Comb. SLE (SLO Operativo sism.) 102	
103	SLD(sis)	Comb. SLE (SLO Operativo sism.) 103	
104	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 104	
105	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 105	
106	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 106	
107	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 107	
108	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 108	
109	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 109	
110	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 110	
111	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 111	
112	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 112	
113	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 113	
114	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 114	
115	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 115	
116	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 116	
117	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 117	
118	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 118	
119	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 119	
120	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 120	
121	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 121	
122	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 122	
123	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 123	
124	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 124	
125	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 125	
126	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 126	
127	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 127	
128	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 128	
129	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 129	
130	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 130	
131	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 131	
132	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 132	
133	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 133	

Cmb	Tipo	Sigla Id	effetto P-delta
134	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 134	
135	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 135	
136	T.AMM.	Comb. T.AMM. 136	
137	T.AMM.	Comb. T.AMM. 137	
138	T.AMM.	Comb. T.AMM. 138	
139	T.AMM.	Comb. T.AMM. 139	
140	T.AMM.	Comb. T.AMM. 140	
141	T.AMM.	Comb. T.AMM. 141	
142	T.AMM.	Comb. T.AMM. 142	
143	T.AMM.	Comb. T.AMM. 143	
144	T.AMM.	Comb. T.AMM. 144	
145	T.AMM.	Comb. T.AMM. 145	
146	T.AMM.	Comb. T.AMM. 146	
147	T.AMM.	Comb. T.AMM. 147	
148	T.AMM.	Comb. T.AMM. 148	
149	T.AMM.	Comb. T.AMM. 149	
150	T.AMM.	Comb. T.AMM. 150	
151	T.AMM.	Comb. T.AMM. 151	
152	T.AMM.	Comb. T.AMM. 152	

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0
2	1.30	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50
3	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0
4	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50
5	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
6	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50
7	1.00	1.00	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
8	1.00	1.00	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50
9	1.30	1.30	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0
10	1.30	1.30	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50
11	1.00	1.00	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
12	1.00	1.00	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50
13	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
14	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.30
15	1.00	1.00	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
16	1.00	1.00	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.30
17	1.00	1.00	0.0	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
18	1.00	1.00	0.0	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.30
19	1.10	1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0
20	1.10	1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10	1.50
21	1.10	1.10	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0
22	1.10	1.10	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10	1.50
23	0.90	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0
24	0.90	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	1.50
25	0.90	0.90	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0
26	0.90	0.90	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	1.50
27	1.10	1.10	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0
28	1.10	1.10	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10	1.50
29	0.90	0.90	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0
30	0.90	0.90	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	1.50
31	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
32	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
33	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
34	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
35	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
36	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
37	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
38	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.80
39	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.90
40	1.00	1.00	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80
41	1.00	1.00	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80
42	1.00	1.00	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80
43	1.00	1.00	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80
44	1.00	1.00	0.0	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80
45	1.00	1.00	0.0	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80

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...
113	1.00	1.00	0.0	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80
114	1.00	1.00	0.0	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80
115	1.00	1.00	0.0	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80
116	1.00	1.00	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80
117	1.00	1.00	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80
118	1.00	1.00	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80
119	1.00	1.00	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80
120	1.00	1.00	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80
121	1.00	1.00	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80
122	1.00	1.00	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80
123	1.00	1.00	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80
124	1.00	1.00	0.0	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80
125	1.00	1.00	0.0	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80
126	1.00	1.00	0.0	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80
127	1.00	1.00	0.0	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80
128	1.00	1.00	0.0	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80
129	1.00	1.00	0.0	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80
130	1.00	1.00	0.0	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80
131	1.00	1.00	0.0	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80
132	1.00	1.00	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80
133	1.00	1.00	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80
134	1.00	1.00	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80
135	1.00	1.00	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80
136	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
137	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
138	1.00	1.00	1.00	1.00	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
139	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
140	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
141	1.00	1.00	1.00	1.00	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
142	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
143	1.00	1.00	1.00	1.00	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	1.00
144	1.00	1.00	1.00	1.00	0.0	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	1.00
145	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	1.00	1.00
146	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.0	1.00	1.00
147	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	1.00	1.00
148	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	1.00	1.00
149	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00	1.00
150	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	1.00	1.00
151	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00	1.00
152	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	1.00	1.00

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
IV	100.0	2.0	200.0	C	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente $S = S_s * S_t$ (3.2.5)

Fo è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

Fv è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno ag su sito di riferimento rigido orizzontale

Tb è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.

Tc è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.

Td è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	11.665	45.732	
11407	11.631	45.721	2.860
11408	11.702	45.722	3.076
11186	11.701	45.772	5.285
11185	11.629	45.771	5.166

SL	P _{ver}	T _r	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	120.0	0.095	2.390	0.280
SLD	63.0	201.0	0.121	2.380	0.290
SLV	10.0	1898.0	0.282	2.390	0.310
SLC	5.0	2475.0	0.309	2.390	0.320

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.095	1.200	2.390	0.996	0.132	0.397	1.981
SLD	0.121	1.200	2.380	1.118	0.136	0.409	2.084
SLV	0.282	1.131	2.390	1.713	0.144	0.431	2.727
SLC	0.309	1.105	2.390	1.793	0.147	0.442	2.835

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 di struttura q	Fattore 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/Ls (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 η_T (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità $1000 \cdot \eta_T/h$ 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 η_T , η_P e η_D degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità $1000 \cdot \eta_T/h$ 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 l'allegato 10.A dell'Ordinanza 3274 e smi. In particolare la tabella, per ogni combinazione SLU (SLC per il DM 14-01-2008) sismica riporta il codice di verifica e i valori utilizzati per la verifica: spostamento dE , area ridotta e dimensione $A2$, azione verticale, deformazioni di taglio dell'elastomero e tensioni nell'acciaio.

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) $Sig s < fyk$
- 3) $Gam t < 5$
- 4) $Gam s < Gam *$ (caratteristica dell' elastomero)
- 5) $Gam s < 2$
- 6) $V < 0.5 Vcr$

Con 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 Maggio 2011, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
23	DM 2008: SPETTRO
29	SISMICA 1000/H, SOMMA V, EFFETTO P-δ
30	ANALISI DI UN EDIFICIO CON ISOLATORI SISMICI
70	MASSE SISMICHE
75	PROGETTO DI ISOLATORI ELASTOMERICI
76	VERIFICA DI ISOLATORI ELASTOMERICI
77	VERIFICA DI ISOLATORI FRICTION PENDULUM

CDC	Tipo	Sigla Id	Note
5	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.131
			ordinata spettro (tratto Tb-Tc) = 0.761 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.139 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 15
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
790.00	897.50	1497.15	1698.89	0.0	-11.41	1496.46	1696.46	1.152	0.006	0.023
745.85	520.56	1464.30	1615.09	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
744.63	132.33	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.85	134.16	1402.73	1700.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.20	519.60	1517.03	1749.35	0.0	-5.99	0.0	0.0	0.0	0.0	0.0
741.31	217.84	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
740.99	109.93	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
709.15	30.09	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
708.45	60.87	1057.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
707.75	140.79	1087.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
706.28	203.10	1151.07	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.80	187.17	1214.73	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.17	95.25	1108.43	959.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.80	160.93	1152.74	948.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.35	381.64	1259.61	914.38	0.0	-1.41	0.0	0.0	0.0	0.0	0.0
701.67	763.76	1427.69	1390.04	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
700.91	157.37	1249.36	959.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.83	266.76	1198.79	981.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.58	139.99	1129.45	1012.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.02	303.81	1420.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
699.35	199.05	1301.63	965.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.26	132.10	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.13	150.58	1349.84	950.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.49	129.53	1269.99	992.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.37	304.92	1491.03	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.26	91.82	1239.68	1008.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.05	133.29	1403.15	1701.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.00	3688.11	762.27	1220.03	0.0	-14.79	0.0	0.0	0.0	0.0	0.0
696.81	134.56	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.73	288.08	1561.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.37	235.57	1205.81	1054.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.09	463.86	1400.35	982.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.75	136.14	1425.26	1757.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.39	419.61	1296.93	1035.07	0.0	-1.47	0.0	0.0	0.0	0.0	0.0
695.25	156.23	1288.42	1040.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.08	276.34	1632.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.47	379.35	1487.82	974.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.36	255.29	1525.77	1778.97	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
693.67	499.45	877.79	1230.98	0.0	-1.24	0.0	0.0	0.0	0.0	0.0
693.58	499.13	876.93	1232.60	0.0	-3.73	0.0	0.0	0.0	0.0	0.0
693.49	250.15	721.35	1296.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.43	269.22	1703.67	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.25	261.21	1036.77	1175.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.97	589.49	1163.94	1129.15	0.0	-17.90	0.0	0.0	0.0	0.0	0.0
692.62	296.87	1176.16	1130.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.19	701.10	1046.28	1189.49	0.0	-15.71	0.0	0.0	0.0	0.0	0.0
691.78	453.85	1562.43	991.61	0.0	-10.11	0.0	0.0	0.0	0.0	0.0
691.55	522.03	1590.70	1311.39	0.0	-41.41	0.0	0.0	0.0	0.0	0.0
691.49	199.01	1308.75	1097.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.43	254.06	1348.10	1082.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.28	374.30	1420.14	1056.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.08	320.46	613.76	1380.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.69	98.30	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.56	540.69	544.42	1416.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.38	848.21	1182.75	1166.23	0.0	-11.24	0.0	0.0	0.0	0.0	0.0
690.33	527.47	835.06	1305.49	0.0	-1.28	0.0	0.0	0.0	0.0	0.0
690.27	242.92	742.53	1342.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.14	459.50	1502.59	1043.04	0.0	-15.88	0.0	0.0	0.0	0.0	0.0
690.05	461.52	1306.43	1122.79	0.0	-20.22	0.0	0.0	0.0	0.0	0.0
689.84	612.77	480.39	1454.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.78	119.67	1087.82	1214.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.43	143.48	655.70	1391.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.11	324.72	1570.74	1033.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.49	541.22	1848.35	933.79	0.0	-2.75	0.0	0.0	0.0	0.0	0.0
688.24	424.69	968.13	1287.97	0.0	-11.68	0.0	0.0	0.0	0.0	0.0
687.94	214.49	1245.83	1182.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.83	301.69	1642.31	1027.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.73	258.46	1150.40	1224.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.65	207.16	1288.75	1170.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.46	344.51	1348.69	1150.22	0.0	-0.81	0.0	0.0	0.0	0.0	0.0
687.36	213.48	1378.79	1139.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.31	80.80	462.69	1504.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.15	320.43	1436.74	1120.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.99	551.44	1358.16	1154.77	0.0	-23.30	0.0	0.0	0.0	0.0	0.0
686.84	310.77	1987.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.71	481.96	1032.75	1288.51	0.0	-1.07	0.0	0.0	0.0	0.0	0.0
686.65	482.42	849.59	1362.41	0.0	-4.72	0.0	0.0	0.0	0.0	0.0
686.56	570.14	1294.49	1187.09	0.0	-16.34	0.0	0.0	0.0	0.0	0.0
686.47	552.90	798.48	1385.55	0.0	-1.18	0.0	0.0	0.0	0.0	0.0
686.34	333.92	1508.16	1105.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.27	264.31	1779.78	1016.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.19	534.44	1774.46	1019.28	0.0	-9.45	0.0	0.0	0.0	0.0	0.0
685.09	260.27	1912.47	966.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.73	449.41	651.04	1473.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.33	505.36	580.40	1508.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.11	299.07	1650.18	1087.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.01	238.12	1846.37	1011.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.94	607.95	514.95	1541.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
683.85	234.34	1227.54	1259.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.61	214.76	1270.09	1247.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.51	243.88	1180.81	1284.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.36	215.75	1313.04	1234.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.16	437.53	1236.11	1268.59	0.0	-4.36	0.0	0.0	0.0	0.0	0.0
682.97	1025.40	1271.44	1257.70	0.0	-19.75	0.0	0.0	0.0	0.0	0.0
682.92	254.71	1084.64	1332.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.70	603.36	1262.49	1265.32	0.0	-8.53	0.0	0.0	0.0	0.0	0.0
682.58	290.92	972.70	1382.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.45	1266.16	1323.58	1245.84	0.0	-29.61	0.0	0.0	0.0	0.0	0.0
682.37	309.82	851.72	1434.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.16	325.65	1523.68	1171.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.77	267.45	1784.17	1074.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.27	313.70	1592.25	1159.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.07	430.85	2028.56	989.33	0.0	-2.20	0.0	0.0	0.0	0.0	0.0
680.52	245.14	1846.92	1070.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
680.26	299.69	1660.29	1149.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.47	224.04	1253.23	1324.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.28	448.62	1532.15	1217.06	0.0	-13.78	0.0	0.0	0.0	0.0	0.0
679.23	500.91	1541.38	1214.37	0.0	-8.55	0.0	0.0	0.0	0.0	0.0
679.05	256.78	1162.15	1367.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.98	218.44	1338.66	1299.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.80	273.01	1109.85	1392.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.73	296.07	1382.11	1285.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.59	285.02	1054.97	1418.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.48	320.48	1424.00	1273.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.40	297.14	997.56	1444.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.34	499.70	1652.54	1185.44	0.0	-9.44	0.0	0.0	0.0	0.0	0.0
678.23	308.84	938.50	1470.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.09	592.10	1291.42	1332.81	0.0	-18.17	0.0	0.0	0.0	0.0	0.0
677.99	856.31	736.12	1554.98	0.0	-2.56	0.0	0.0	0.0	0.0	0.0
677.93	1105.16	969.25	1463.97	0.0	-27.53	0.0	0.0	0.0	0.0	0.0
677.86	309.54	1542.04	1237.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.61	82.62	519.52	1647.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.29	588.88	553.93	1639.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.17	305.52	1606.63	1223.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.94	531.48	1963.67	1085.32	0.0	-4.05	0.0	0.0	0.0	0.0	0.0
676.30	296.33	1672.41	1212.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.84	221.25	1908.61	1126.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.33	282.71	1737.29	1203.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.09	221.62	1278.92	1389.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.94	241.06	1235.31	1409.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.85	420.63	1634.68	1252.11	0.0	-12.72	0.0	0.0	0.0	0.0	0.0
674.76	260.83	1187.57	1431.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.56	494.83	1236.34	1414.96	0.0	-4.56	0.0	0.0	0.0	0.0	0.0
674.36	850.36	1419.62	1346.18	0.0	-14.26	0.0	0.0	0.0	0.0	0.0
674.17	299.09	1023.69	1506.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.99	724.59	1411.07	1355.83	0.0	-20.71	0.0	0.0	0.0	0.0	0.0
673.94	317.42	1503.21	1319.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.75	317.91	904.13	1560.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.65	289.35	1560.21	1302.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.49	328.29	842.60	1589.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.27	241.80	1860.56	1189.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.06	294.90	1622.14	1287.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.98	617.17	1317.20	1410.07	0.0	-25.35	0.0	0.0	0.0	0.0	0.0
672.77	126.78	547.93	1719.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.30	290.27	1685.98	1275.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.24	214.30	1915.33	1185.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.96	459.91	645.58	1694.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.84	390.76	585.92	1720.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.51	502.89	719.34	1672.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.44	276.24	1749.57	1264.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.19	197.01	1965.77	1183.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.71	220.22	1304.61	1453.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.59	237.82	1261.57	1472.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.51	255.54	1811.53	1255.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.46	470.79	1274.12	1470.09	0.0	-2.66	0.0	0.0	0.0	0.0	0.0
670.30	275.52	1162.81	1517.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
670.24	213.76	1389.46	1428.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.12	495.76	1484.79	1392.29	0.0	-17.94	0.0	0.0	0.0	0.0	0.0
670.05	193.72	1432.17	1414.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.94	296.65	1050.49	1567.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.88	219.76	1474.40	1400.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.74	581.59	1246.82	1493.59	0.0	-10.57	0.0	0.0	0.0	0.0	0.0
669.55	527.78	1330.60	1463.08	0.0	-18.66	0.0	0.0	0.0	0.0	0.0
669.42	271.80	1580.13	1366.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.34	290.99	872.34	1648.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.03	499.98	1428.36	1433.61	0.0	-24.64	0.0	0.0	0.0	0.0	0.0
668.95	281.03	1638.12	1351.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.79	188.00	1920.83	1241.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.59	155.33	772.48	1701.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.29	280.50	1700.38	1338.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.92	125.20	576.35	1790.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.78	161.60	1968.60	1240.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.58	265.38	1762.35	1325.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.86	244.17	1822.31	1314.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.72	366.20	672.38	1773.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.38	312.38	617.91	1800.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.33	725.32	1273.64	1540.65	0.0	-25.40	0.0	0.0	0.0	0.0	0.0
666.26	232.88	1287.43	1536.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.16	464.62	1300.37	1533.43	0.0	-2.59	0.0	0.0	0.0	0.0	0.0
666.04	485.29	1492.58	1458.62	0.0	-13.77	0.0	0.0	0.0	0.0	0.0
665.90	494.97	1253.08	1556.28	0.0	-5.60	0.0	0.0	0.0	0.0	0.0
665.78	715.52	1314.01	1534.74	0.0	-8.40	0.0	0.0	0.0	0.0	0.0
665.56	705.58	1413.58	1498.30	0.0	-18.10	0.0	0.0	0.0	0.0	0.0
665.43	296.93	958.35	1681.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.35	875.72	1195.05	1589.48	0.0	-23.45	0.0	0.0	0.0	0.0	0.0
665.23	263.78	840.90	1731.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.05	243.09	2058.06	1251.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.90	264.69	1656.42	1413.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.37	264.95	1715.93	1398.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.82	253.37	1776.40	1384.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.26	237.13	1834.66	1370.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.07	103.48	604.76	1862.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.87	321.00	638.50	1852.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.70	222.90	1891.35	1357.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.58	287.14	2000.74	1316.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.34	218.38	1945.88	1342.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.20	318.64	696.26	1840.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.95	669.65	1308.74	1601.81	0.0	-1.78	0.0	0.0	0.0	0.0	0.0
661.85	737.15	1087.08	1691.90	0.0	-12.81	0.0	0.0	0.0	0.0	0.0
661.73	279.68	1160.59	1664.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.67	655.20	1478.96	1539.09	0.0	-1.63	0.0	0.0	0.0	0.0	0.0
661.59	289.43	1103.49	1689.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.54	229.45	1567.92	1505.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.44	562.43	931.39	1760.77	0.0	-4.79	0.0	0.0	0.0	0.0	0.0
661.32	542.03	1271.79	1627.37	0.0	-12.63	0.0	0.0	0.0	0.0	0.0
661.25	578.18	895.12	1778.15	0.0	-1.19	0.0	0.0	0.0	0.0	0.0
661.17	252.37	2058.06	1317.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.99	248.15	1675.48	1472.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.58	248.51	1732.92	1456.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.14	240.07	1791.26	1441.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.68	228.92	1847.95	1426.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.17	226.22	1903.58	1413.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.58	222.56	1960.12	1400.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.23	315.28	1655.50	1528.32	0.0	-27.26	0.0	0.0	0.0	0.0	0.0
657.84	441.27	1313.66	1670.32	0.0	-0.89	0.0	0.0	0.0	0.0	0.0
657.76	254.23	1241.58	1700.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.56	1613.06	1432.61	1627.50	0.0	-7.98	0.0	0.0	0.0	0.0	0.0
657.47	517.64	1357.22	1659.28	0.0	-10.12	0.0	0.0	0.0	0.0	0.0
657.39	267.93	722.42	1912.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.33	811.04	1257.30	1701.37	0.0	-25.41	0.0	0.0	0.0	0.0	0.0
657.23	816.04	1143.54	1748.24	0.0	-17.18	0.0	0.0	0.0	0.0	0.0
657.15	596.29	920.07	1838.38	0.0	-1.22	0.0	0.0	0.0	0.0	0.0
656.97	384.13	673.06	1939.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.92	233.67	1749.67	1512.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
656.59	226.64	1806.18	1496.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.19	215.48	1861.11	1480.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.69	206.28	1914.89	1468.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.06	191.27	1967.11	1458.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
654.32	200.69	2011.36	1453.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.95	209.94	1360.25	1718.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.89	460.73	1452.71	1682.44	0.0	-4.97	0.0	0.0	0.0	0.0	0.0
653.83	206.05	1613.57	1619.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.74	459.02	1455.62	1683.94	0.0	-7.79	0.0	0.0	0.0	0.0	0.0
653.59	488.05	1441.93	1691.99	0.0	-9.90	0.0	0.0	0.0	0.0	0.0
653.46	296.29	693.65	1991.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.38	834.04	1497.63	1673.31	0.0	-27.75	0.0	0.0	0.0	0.0	0.0
653.25	297.79	1099.62	1833.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.14	516.43	1361.97	1731.49	0.0	-15.54	0.0	0.0	0.0	0.0	0.0
653.02	1478.64	859.76	1932.98	0.0	-4.62	0.0	0.0	0.0	0.0	0.0
652.80	199.43	1875.43	1533.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.58	223.40	1403.02	1701.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.41	175.81	1926.56	1519.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
651.80	148.99	1973.66	1511.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.63	187.93	2012.47	1515.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.18	624.27	1550.76	1706.85	0.0	-5.01	0.0	0.0	0.0	0.0	0.0
650.08	610.43	1597.54	1690.27	0.0	-7.70	0.0	0.0	0.0	0.0	0.0
649.99	220.53	1295.71	1811.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.91	208.64	1786.05	1618.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.79	200.96	1838.74	1599.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.70	258.90	1244.66	1836.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.59	187.88	1890.47	1582.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.52	218.92	2058.06	1516.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.39	238.29	1952.37	1561.16	0.0	-0.63	0.0	0.0	0.0	0.0	0.0
649.29	292.23	1188.05	1866.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.15	303.02	1127.77	1892.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.03	567.23	1229.38	1846.05	0.0	-8.05	0.0	0.0	0.0	0.0	0.0
648.95	307.36	1002.77	1945.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.90	297.99	940.89	1971.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.78	284.80	881.14	1996.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.56	354.02	794.32	2035.15	0.0	-2.71	0.0	0.0	0.0	0.0	0.0
648.19	262.66	775.90	2048.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
647.57	390.93	728.21	2078.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.88	254.09	2005.94	1582.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.75	131.41	1364.64	1839.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.57	199.72	1805.45	1667.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.52	1679.13	1582.13	1756.74	0.0	-10.62	0.0	0.0	0.0	0.0	0.0
646.44	575.61	1832.98	1658.69	0.0	-5.87	0.0	0.0	0.0	0.0	0.0
645.93	252.67	1279.14	1887.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.64	227.28	2058.06	1583.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.28	298.12	1219.30	1922.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.06	298.80	1156.42	1951.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
644.92	609.12	1060.24	1992.04	0.0	-1.33	0.0	0.0	0.0	0.0	0.0
644.86	538.66	936.75	2041.90	0.0	-1.15	0.0	0.0	0.0	0.0	0.0
644.55	292.24	976.45	2030.64	0.0	-10.24	0.0	0.0	0.0	0.0	0.0
644.41	75.37	1342.60	1888.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.75	377.07	809.96	2111.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.69	145.14	718.41	2148.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.42	171.62	1873.69	1694.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.28	346.42	1870.48	1697.78	0.0	-1.95	0.0	0.0	0.0	0.0	0.0
643.16	196.88	1776.44	1737.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.04	574.44	1425.49	1878.44	0.0	-24.08	0.0	0.0	0.0	0.0	0.0
642.73	203.51	2011.77	1651.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
642.56	564.28	1518.68	1849.80	0.0	-5.63	0.0	0.0	0.0	0.0	0.0
642.36	508.49	1548.40	1841.46	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
642.31	360.57	1328.84	1929.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.76	214.34	2058.06	1649.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.71	331.30	1253.37	1969.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.63	133.46	877.36	2120.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.40	303.99	1184.48	2002.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.21	518.50	1034.23	2065.33	0.0	-3.84	0.0	0.0	0.0	0.0	0.0
641.02	563.03	1019.18	2074.90	0.0	-1.30	0.0	0.0	0.0	0.0	0.0
640.62	132.71	1890.52	1735.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
640.51	117.45	1932.64	1720.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.38	263.34	1803.71	1773.79	0.0	-1.87	0.0	0.0	0.0	0.0	0.0
639.94	145.80	1972.25	1714.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.77	195.60	1800.83	1785.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.66	156.57	789.74	2189.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.23	159.53	2016.43	1709.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.17	536.65	1166.33	1989.67	0.0	-20.49	0.0	0.0	0.0	0.0	0.0
638.84	105.43	746.83	2220.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.57	63.38	1938.08	1751.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.52	186.88	781.25	2211.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.41	338.32	1726.88	1838.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.23	96.90	1908.31	1769.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.18	699.08	1611.45	1887.94	0.0	-7.41	0.0	0.0	0.0	0.0	0.0
638.00	1060.39	1243.21	2037.05	0.0	-9.78	0.0	0.0	0.0	0.0	0.0
637.94	65.52	1837.03	1802.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.85	531.97	1571.19	1909.37	0.0	-15.46	0.0	0.0	0.0	0.0	0.0
637.70	285.50	1210.38	2055.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.61	609.74	1076.28	2110.12	0.0	-2.74	0.0	0.0	0.0	0.0	0.0
637.55	263.67	1071.89	2113.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.07	184.15	1794.77	1834.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.97	175.13	1973.28	1764.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.63	105.77	2017.62	1753.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.33	120.60	1927.59	1793.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.13	491.54	1264.54	2060.70	0.0	-21.36	0.0	0.0	0.0	0.0	0.0
635.19	192.45	879.77	2229.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
634.00	4981.33	1356.10	2060.82	0.0	-25.48	1253.77	2101.80	0.332	0.308	0.310
632.92	68.49	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.78	69.69	1464.83	1614.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.34	142.52	1063.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.92	68.99	1497.72	1601.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.79	1050.45	1151.59	2179.71	0.0	-14.79	0.0	0.0	0.0	0.0	0.0
631.71	177.74	1103.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
630.84	215.71	1157.68	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.94	226.74	1217.02	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.16	242.57	1278.40	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
628.24	255.15	1347.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
627.13	258.15	1417.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
625.27	263.80	1489.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.44	260.69	700.11	1244.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.26	259.91	633.57	1271.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
623.54	526.36	1164.76	1062.46	0.0	-15.57	0.0	0.0	0.0	0.0	0.0
623.20	123.15	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.69	248.69	1088.51	1090.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.18	253.61	1025.86	1115.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
621.98	791.57	1119.68	1089.06	0.0	-14.26	0.0	0.0	0.0	0.0	0.0
621.65	258.40	962.15	1140.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.53	260.72	1705.31	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.19	265.08	568.54	1296.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
619.13	258.58	1776.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
617.77	256.00	1847.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
616.43	253.14	1918.25	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
615.09	250.62	1988.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.84	276.54	503.94	1322.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.76	249.45	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
611.41	161.02	1442.94	1623.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
606.28	324.82	1464.94	1614.83	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
603.65	259.38	2058.06	975.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601.18	162.65	1402.55	1700.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	2342.44	563.21	1662.92	0.0	-36.34	549.80	1629.15	0.0	1.4626e+06	1.4655e+06
597.60	163.59	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.67	168.95	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.54	159.15	1425.12	1757.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
594.22	319.62	1398.25	1208.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.85	308.42	1424.53	1274.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.00	1267.50	1973.42	1472.63	0.0	-41.87	0.0	0.0	0.0	0.0	0.0
589.21	179.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
588.39	252.21	2058.06	1318.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
587.49	151.36	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
586.66	239.85	2058.06	1387.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.40	217.59	754.26	2143.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
584.37	230.68	2058.06	1455.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
582.84	525.73	1530.30	1777.17	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
581.76	223.18	2058.06	1522.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
580.05	272.30	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
579.14	140.62	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.99	216.75	2058.06	1588.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.76	219.62	781.07	2211.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.51	211.84	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.88	215.04	1469.28	1868.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.06	211.78	2058.06	1653.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
575.53	402.32	1868.22	1857.40	0.0	-5.04	0.0	0.0	0.0	0.0	0.0
574.03	212.77	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.55	215.12	1495.07	1933.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.80	2093.01	1218.35	2115.53	0.0	-14.14	0.0	0.0	0.0	0.0	0.0
572.64	233.77	948.31	2222.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.55	208.30	2058.06	1718.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.41	231.55	877.39	2250.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
569.33	416.93	1865.24	1858.58	0.0	-7.41	0.0	0.0	0.0	0.0	0.0
556.69	74.14	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
556.27	154.14	1066.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.85	178.75	1109.10	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.35	207.56	1160.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.00	1115.12	1413.98	1297.56	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
554.95	221.56	1218.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
552.02	272.99	1488.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
550.94	535.50	670.98	1256.29	0.0	-1.35	0.0	0.0	0.0	0.0	0.0
550.17	269.20	1561.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
549.40	117.63	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.86	264.80	771.44	1216.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.76	266.45	1634.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.64	238.61	1091.40	1089.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.86	245.49	1030.92	1113.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.55	263.69	1707.20	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.06	254.28	968.14	1138.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546.87	381.07	1065.78	1347.21	0.0	-29.31	0.0	0.0	0.0	0.0	0.0
546.44	260.37	1779.17	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.52	262.96	571.29	1295.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.38	521.94	1334.57	1051.22	0.0	-14.15	0.0	0.0	0.0	0.0	0.0
544.35	250.80	1920.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
543.33	246.16	1989.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
542.32	244.43	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
539.81	259.78	505.18	1322.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
538.16	179.27	1403.05	1701.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
537.08	185.55	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.28	133.62	1871.67	1856.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
532.00	614.25	507.87	1523.60	0.0	-36.34	0.0	0.0	0.0	0.0	0.0
529.80	247.65	2058.06	975.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
526.89	185.77	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
525.93	117.02	1910.01	1840.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
523.69	233.75	754.10	2143.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
519.13	605.14	1519.58	1781.43	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
518.19	277.59	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
517.85	137.89	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517.22	722.05	1658.19	1622.73	0.0	-44.58	0.0	0.0	0.0	0.0	0.0
516.31	229.38	2058.06	1460.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
515.00	675.44	1941.28	1584.23	0.0	-41.87	0.0	0.0	0.0	0.0	0.0
514.87	210.65	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
514.81	219.65	2058.06	1528.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.36	213.38	1494.44	1931.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.03	210.94	2058.06	1594.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
511.60	2557.91	1162.97	2137.53	0.0	-14.14	0.0	0.0	0.0	0.0	0.0
511.37	238.73	1466.98	1862.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.94	203.29	2058.06	1658.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.18	211.08	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
509.33	988.27	595.15	1743.34	0.0	-22.58	0.0	0.0	0.0	0.0	0.0
508.80	439.77	1868.22	1857.40	0.0	-5.04	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
507.93	197.57	2058.06	1720.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507.73	170.78	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
505.47	324.85	1399.30	1211.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
504.67	416.19	1863.17	1859.41	0.0	-7.41	0.0	0.0	0.0	0.0	0.0
503.22	301.29	1425.36	1277.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
501.00	146.11	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.74	68.76	1875.48	1854.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.46	74.81	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.21	154.94	1066.89	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.95	180.69	1109.50	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.65	209.66	1162.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.42	220.36	1219.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.33	828.39	1427.56	1400.74	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
477.82	284.44	1409.85	1718.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
477.65	278.03	1488.13	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.35	273.78	1562.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.11	269.28	710.31	1240.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.67	272.29	642.40	1267.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.60	111.76	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.32	270.51	1636.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.78	262.90	776.93	1214.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.46	267.27	1709.54	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.18	236.10	1036.81	1110.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.02	224.57	1093.76	1088.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.68	263.21	1782.32	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.44	252.45	974.62	1135.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.96	517.52	1379.12	1035.02	0.0	-12.72	0.0	0.0	0.0	0.0	0.0
472.61	267.41	574.24	1294.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.25	247.95	1924.23	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.90	363.97	1127.26	1381.90	0.0	-34.03	0.0	0.0	0.0	0.0	0.0
471.70	117.36	1910.50	1840.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.56	239.49	1991.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
470.88	238.57	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
469.41	202.49	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467.57	257.92	505.29	1322.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
464.00	614.16	508.03	1523.98	0.0	-36.34	0.0	0.0	0.0	0.0	0.0
461.81	192.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.99	237.48	754.04	2143.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.27	233.30	2058.06	975.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455.42	543.32	1528.13	1778.03	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
455.15	280.92	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
455.05	140.12	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.52	229.10	780.93	2211.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.06	188.06	1471.53	1874.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452.91	201.10	1495.97	1935.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
451.77	207.96	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.69	226.02	875.58	2251.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.54	230.97	945.05	2224.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.40	2099.17	1216.80	2116.15	0.0	-14.14	0.0	0.0	0.0	0.0	0.0
450.22	457.64	2058.06	1430.83	0.0	-3.55	0.0	0.0	0.0	0.0	0.0
449.53	211.15	2058.06	1535.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.57	201.35	2058.06	1600.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.14	245.12	2058.06	1321.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
447.26	394.44	1852.10	1769.68	0.0	-10.25	0.0	0.0	0.0	0.0	0.0
445.02	180.27	2058.06	1723.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	1728.18	1923.78	1644.79	0.0	-44.36	1963.11	1856.31	0.217	0.368	3.505
424.02	67.10	1913.18	1839.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
418.67	988.27	595.15	1743.34	0.0	-22.58	0.0	0.0	0.0	0.0	0.0
417.87	189.84	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
416.73	335.23	1401.97	1218.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
415.61	282.59	1427.01	1281.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414.50	135.88	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.11	92.55	1874.77	1854.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
406.17	380.30	1412.87	1726.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.11	215.93	1052.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.00	180.24	1104.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.85	222.25	1160.39	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.73	224.25	1220.21	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
403.67	849.79	1426.74	1407.68	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
402.89	280.66	1488.47	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402.24	549.20	1143.36	1071.30	0.0	-16.59	0.0	0.0	0.0	0.0	0.0
401.87	274.15	645.40	1266.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.80	100.87	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.71	274.55	1638.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.40	204.78	1099.38	1086.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.34	265.04	782.10	1212.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.26	271.68	1712.43	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.98	229.48	1045.41	1107.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.86	268.03	1786.38	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.49	261.89	1859.44	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.29	269.23	576.08	1293.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.13	505.78	1371.57	1050.99	0.0	-13.93	0.0	0.0	0.0	0.0	0.0
399.90	261.30	916.43	1158.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.78	482.28	1460.89	1026.01	0.0	-11.27	0.0	0.0	0.0	0.0	0.0
399.44	230.89	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.12	206.65	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
398.40	258.73	506.57	1321.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
396.00	615.86	507.86	1523.57	0.0	-36.34	0.0	0.0	0.0	0.0	0.0
395.20	195.36	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
395.15	197.19	1471.86	1874.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
393.60	238.73	754.02	2143.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392.42	220.16	2058.06	975.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
391.71	609.99	1519.23	1781.57	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
391.65	423.14	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
391.35	230.36	780.90	2210.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
390.86	202.88	1496.26	1936.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.65	205.39	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.20	2556.25	1161.88	2137.96	0.0	-14.14	0.0	0.0	0.0	0.0	0.0
388.08	210.70	2058.06	1474.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.93	231.51	2058.06	1403.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.84	201.78	2058.06	1542.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.44	193.66	2058.06	1607.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.21	197.51	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
386.85	422.70	2058.06	1468.93	0.0	-17.37	0.0	0.0	0.0	0.0	0.0
385.81	161.81	2058.06	1727.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384.00	2018.56	1941.10	1585.50	0.0	-44.36	1957.35	1855.12	0.206	0.154	4.707
328.00	1.876e+05	1300.09	1513.79	0.0	-70.85	1388.66	1256.09	0.820	0.172	0.438
327.92	289.07	1442.58	1801.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322.58	553.23	1412.62	1725.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.00	1010.16	2058.06	1616.01	0.0	-18.20	0.0	0.0	0.0	0.0	0.0
255.15	246.38	1998.89	1805.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.00	1693.16	979.01	1884.36	0.0	-19.53	0.0	0.0	0.0	0.0	0.0
248.97	270.22	1938.69	1829.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.95	303.04	679.61	1576.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.69	311.70	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
245.99	573.09	1843.55	1867.20	0.0	-1.25	0.0	0.0	0.0	0.0	0.0
244.12	315.79	652.46	1508.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.03	292.93	1749.79	1904.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.66	394.73	1062.00	1179.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.61	324.38	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.23	385.55	2058.06	1325.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.64	378.11	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.57	396.87	973.36	2072.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.00	3734.62	1408.22	1664.89	0.0	-59.95	1628.78	1789.87	0.104	4.133	2.042
240.39	328.39	1867.36	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.08	343.85	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.77	329.95	1792.24	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.16	331.42	1717.14	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.10	346.46	770.27	1379.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.53	332.68	1642.08	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
237.85	683.01	1196.64	1134.18	0.0	-22.19	0.0	0.0	0.0	0.0	0.0
237.60	861.26	1581.16	1207.16	0.0	-35.56	0.0	0.0	0.0	0.0	0.0
236.92	333.00	1492.62	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.70	354.16	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.27	363.49	1234.52	1471.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.06	326.99	1419.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
234.32	389.38	1181.84	1407.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232.21	354.71	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.35	1154.10	1551.92	1340.08	0.0	-41.73	0.0	0.0	0.0	0.0	0.0
230.42	362.27	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.10	325.13	1348.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.12	351.25	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228.78	435.41	1124.11	1338.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227.95	1347.88	1400.23	1213.78	0.0	-27.14	0.0	0.0	0.0	0.0	0.0
225.10	380.48	1412.34	1725.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.00	5852.58	1409.33	1251.38	0.0	-37.04	1431.17	1112.32	0.763	0.078	0.483
190.00	1532.51	2058.06	1611.37	0.0	-18.20	0.0	0.0	0.0	0.0	0.0
175.00	661.95	992.27	1892.18	0.0	-19.53	0.0	0.0	0.0	0.0	0.0
172.44	290.23	1997.53	1806.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.26	311.28	679.37	1576.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.91	318.15	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.77	291.25	1936.29	1830.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.90	296.60	1873.73	1855.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.92	392.15	2058.06	1323.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.84	321.45	652.11	1507.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.52	329.65	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.32	296.26	1810.61	1880.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.34	296.90	1748.47	1904.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.00	5136.76	1348.90	1685.30	0.0	-59.95	1635.23	1789.26	0.082	6.756	2.167
153.16	324.77	1867.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.74	341.23	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.31	324.67	1793.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.47	665.48	1232.60	1149.30	0.0	-23.64	0.0	0.0	0.0	0.0	0.0
150.61	323.97	1643.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.27	835.24	1581.16	1207.16	0.0	-35.56	0.0	0.0	0.0	0.0	0.0
149.91	340.39	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.71	322.74	1569.48	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.61	319.80	1495.42	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.69	338.17	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.42	352.53	1233.37	1469.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.34	313.66	1422.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.71	370.39	1179.71	1405.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.99	814.27	1584.89	1202.08	0.0	-33.56	0.0	0.0	0.0	0.0	0.0
143.89	334.03	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.73	329.89	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.29	302.20	1349.95	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.46	385.49	1122.30	1336.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.15	316.29	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.26	1207.38	1400.13	1213.54	0.0	-27.08	0.0	0.0	0.0	0.0	0.0
137.48	364.32	1411.20	1722.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.67	4043.32	1385.64	1263.08	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
100.32	198.40	1122.05	2013.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.00	2193.28	963.68	1871.31	0.0	-19.53	0.0	0.0	0.0	0.0	0.0
84.98	688.93	2058.06	1748.89	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
84.92	387.14	2058.06	1648.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.71	426.86	2058.06	1568.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.91	434.43	2058.06	1486.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.93	431.34	2058.06	1403.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.40	348.25	679.70	1576.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.10	355.30	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.18	320.67	1996.61	1806.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.13	308.74	1934.84	1830.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.22	342.62	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.00	335.06	652.21	1507.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.38	304.09	1872.63	1855.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.00	300.27	1809.96	1880.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.80	381.10	2058.06	1317.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.74	399.84	1062.00	1196.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68.48	296.66	1747.36	1905.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.00	4051.24	1407.34	1672.26	0.0	-59.95	1635.23	1789.26	0.082	5.377	2.439
66.48	410.65	973.46	2072.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.42	321.33	1868.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.36	391.02	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.14	338.87	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
65.84	319.74	1794.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.26	654.35	1231.86	1149.99	0.0	-23.64	0.0	0.0	0.0	0.0	0.0
64.76	823.25	1581.15	1207.16	0.0	-35.56	0.0	0.0	0.0	0.0	0.0
64.68	316.24	1645.65	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.28	333.16	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.08	313.93	1571.57	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.39	310.71	1497.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.27	336.37	1233.86	1470.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.12	358.31	1181.26	1407.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.01	328.56	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.42	306.01	1424.19	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.97	799.50	1583.13	1201.28	0.0	-33.56	0.0	0.0	0.0	0.0	0.0
61.11	320.45	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.81	297.04	1351.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.75	318.21	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.59	380.86	1123.06	1337.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.11	304.80	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59.74	1163.89	1400.22	1213.76	0.0	-27.05	0.0	0.0	0.0	0.0	0.0
58.33	3957.57	1387.69	1261.01	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
53.98	332.16	1407.54	1713.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	4.607e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.744	0.148	0.761	7092.95	1.5	3.712e+05	80.6	556.91	0.1	0.0	0.0
2	7.181	0.139	0.747	3.494e+05	75.8	3399.47	0.7	3345.28	0.7	0.0	0.0
3	9.519	0.105	0.642	501.24	0.1	0.16	3.39e-05	609.64	0.1	0.0	0.0
4	9.641	0.104	0.638	3.752e+04	8.1	5757.44	1.2	9.869e+04	21.4	0.0	0.0
5	14.146	0.071	0.536	1.680e+04	3.6	1902.15	0.4	2.335e+05	50.7	0.0	0.0
6	14.978	0.067	0.524	1.742e+04	3.8	3.461e+04	7.5	2.637e+04	5.7	0.0	0.0
7	16.727	0.060	0.502	1.835e+04	4.0	1.417e+04	3.1	4.024e+04	8.7	0.0	0.0
8	17.139	0.058	0.498	6380.70	1.4	8373.66	1.8	1.383e+04	3.0	0.0	0.0
9	19.309	0.052	0.478	995.52	0.2	1.586e+04	3.4	2116.91	0.5	0.0	0.0
10	20.775	0.048	0.467	1782.87	0.4	2782.21	0.6	8656.98	1.9	0.0	0.0
11	24.007	0.042	0.447	2989.74	0.6	939.62	0.2	2.454e+04	5.3	0.0	0.0
12	28.668	0.035	0.426	150.68	3.27e-02	846.14	0.2	1363.88	0.3	0.0	0.0
13	38.371	0.026	0.399	810.20	0.2	19.12	4.15e-03	5671.04	1.2	0.0	0.0
14	41.331	0.024	0.393	152.66	3.31e-02	469.88	0.1	1.27	2.76e-04	0.0	0.0
15	44.779	0.022	0.387	133.46	2.90e-02	223.95	4.86e-02	868.98	0.2	0.0	0.0
Risulta				4.605e+05		4.606e+05		4.604e+05			
In percentuale				99.95		99.97		99.93			

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.131
			ordinata spettro (tratto Tb-Tc) = 0.761 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.141 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 15
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
790.00	897.50	1497.15	1698.89	0.0	11.41	1496.46	1696.46	1.152	0.006	0.023
745.85	520.56	1464.30	1615.09	0.0	3.28	0.0	0.0	0.0	0.0	0.0
744.63	132.33	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.85	134.16	1402.73	1700.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.20	519.60	1517.03	1749.35	0.0	5.99	0.0	0.0	0.0	0.0	0.0
741.31	217.84	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
740.99	109.93	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
709.15	30.09	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
708.45	60.87	1057.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
707.75	140.79	1087.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
706.28	203.10	1151.07	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.80	187.17	1214.73	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.17	95.25	1108.43	959.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.80	160.93	1152.74	948.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.35	381.64	1259.61	914.38	0.0	1.41	0.0	0.0	0.0	0.0	0.0
701.67	763.76	1427.69	1390.04	0.0	37.04	0.0	0.0	0.0	0.0	0.0
700.91	157.37	1249.36	959.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.83	266.76	1198.79	981.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.58	139.99	1129.45	1012.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.02	303.81	1420.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.35	199.05	1301.63	965.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.26	132.10	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.13	150.58	1349.84	950.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.49	129.53	1269.99	992.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.37	304.92	1491.03	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.26	91.82	1239.68	1008.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.05	133.29	1403.15	1701.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.00	3688.11	762.27	1220.03	0.0	14.79	0.0	0.0	0.0	0.0	0.0
696.81	134.56	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.73	288.08	1561.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.37	235.57	1205.81	1054.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.09	463.86	1400.35	982.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.75	136.14	1425.26	1757.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.39	419.61	1296.93	1035.07	0.0	1.47	0.0	0.0	0.0	0.0	0.0
695.25	156.23	1288.42	1040.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.08	276.34	1632.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.47	379.35	1487.82	974.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.36	255.29	1525.77	1778.97	0.0	3.28	0.0	0.0	0.0	0.0	0.0
693.67	499.45	877.79	1230.98	0.0	1.24	0.0	0.0	0.0	0.0	0.0
693.58	499.13	876.93	1232.60	0.0	3.73	0.0	0.0	0.0	0.0	0.0
693.49	250.15	721.35	1296.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.43	269.22	1703.67	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.25	261.21	1036.77	1175.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.97	589.49	1163.94	1129.15	0.0	17.90	0.0	0.0	0.0	0.0	0.0
692.62	296.87	1176.16	1130.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.19	701.10	1046.28	1189.49	0.0	15.71	0.0	0.0	0.0	0.0	0.0
691.78	453.85	1562.43	991.61	0.0	10.11	0.0	0.0	0.0	0.0	0.0
691.55	522.03	1590.70	1311.39	0.0	41.41	0.0	0.0	0.0	0.0	0.0
691.49	199.01	1308.75	1097.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.43	254.06	1348.10	1082.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.28	374.30	1420.14	1056.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.08	320.46	613.76	1380.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.69	98.30	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.56	540.69	544.42	1416.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.38	848.21	1182.75	1166.23	0.0	11.24	0.0	0.0	0.0	0.0	0.0
690.33	527.47	835.06	1305.49	0.0	1.28	0.0	0.0	0.0	0.0	0.0
690.27	242.92	742.53	1342.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.14	459.50	1502.59	1043.04	0.0	15.88	0.0	0.0	0.0	0.0	0.0
690.05	461.52	1306.43	1122.79	0.0	20.22	0.0	0.0	0.0	0.0	0.0
689.84	612.77	480.39	1454.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.78	119.67	1087.82	1214.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.43	143.48	655.70	1391.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.11	324.72	1570.74	1033.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.49	541.22	1848.35	933.79	0.0	2.75	0.0	0.0	0.0	0.0	0.0
688.24	424.69	968.13	1287.97	0.0	11.68	0.0	0.0	0.0	0.0	0.0
687.94	214.49	1245.83	1182.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.83	301.69	1642.31	1027.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.73	258.46	1150.40	1224.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
687.65	207.16	1288.75	1170.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.46	344.51	1348.69	1150.22	0.0	0.81	0.0	0.0	0.0	0.0	0.0
687.36	213.48	1378.79	1139.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.31	80.80	462.69	1504.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.15	320.43	1436.74	1120.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.99	551.44	1358.16	1154.77	0.0	23.30	0.0	0.0	0.0	0.0	0.0
686.84	310.77	1987.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.71	481.96	1032.75	1288.51	0.0	1.07	0.0	0.0	0.0	0.0	0.0
686.65	482.42	849.59	1362.41	0.0	4.72	0.0	0.0	0.0	0.0	0.0
686.56	570.14	1294.49	1187.09	0.0	16.34	0.0	0.0	0.0	0.0	0.0
686.47	552.90	798.48	1385.55	0.0	1.18	0.0	0.0	0.0	0.0	0.0
686.34	333.92	1508.16	1105.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.27	264.31	1779.78	1016.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.19	534.44	1774.46	1019.28	0.0	9.45	0.0	0.0	0.0	0.0	0.0
685.09	260.27	1912.47	966.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.73	449.41	651.04	1473.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.33	505.36	580.40	1508.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.11	299.07	1650.18	1087.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.01	238.12	1846.37	1011.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.94	607.95	514.95	1541.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.85	234.34	1227.54	1259.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.61	214.76	1270.09	1247.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.51	243.88	1180.81	1284.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.36	215.75	1313.04	1234.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.16	437.53	1236.11	1268.59	0.0	4.36	0.0	0.0	0.0	0.0	0.0
682.97	1025.40	1271.44	1257.70	0.0	19.75	0.0	0.0	0.0	0.0	0.0
682.92	254.71	1084.64	1332.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.70	603.36	1262.49	1265.32	0.0	8.53	0.0	0.0	0.0	0.0	0.0
682.58	290.92	972.70	1382.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.45	1266.16	1323.58	1245.84	0.0	29.61	0.0	0.0	0.0	0.0	0.0
682.37	309.82	851.72	1434.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.16	325.65	1523.68	1171.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.77	267.45	1784.17	1074.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.27	313.70	1592.25	1159.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.07	430.85	2028.56	989.33	0.0	2.20	0.0	0.0	0.0	0.0	0.0
680.52	245.14	1846.92	1070.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
680.26	299.69	1660.29	1149.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.47	224.04	1253.23	1324.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.28	448.62	1532.15	1217.06	0.0	13.78	0.0	0.0	0.0	0.0	0.0
679.23	500.91	1541.38	1214.37	0.0	8.55	0.0	0.0	0.0	0.0	0.0
679.05	256.78	1162.15	1367.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.98	218.44	1338.66	1299.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.80	273.01	1109.85	1392.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.73	296.07	1382.11	1285.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.59	285.02	1054.97	1418.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.48	320.48	1424.00	1273.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.40	297.14	997.56	1444.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.34	499.70	1652.54	1185.44	0.0	9.44	0.0	0.0	0.0	0.0	0.0
678.23	308.84	938.50	1470.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.09	592.10	1291.42	1332.81	0.0	18.17	0.0	0.0	0.0	0.0	0.0
677.99	856.31	736.12	1554.98	0.0	2.56	0.0	0.0	0.0	0.0	0.0
677.93	1105.16	969.25	1463.97	0.0	27.53	0.0	0.0	0.0	0.0	0.0
677.86	309.54	1542.04	1237.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.61	82.62	519.52	1647.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.29	588.88	553.93	1639.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.17	305.52	1606.63	1223.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.94	531.48	1963.67	1085.32	0.0	4.05	0.0	0.0	0.0	0.0	0.0
676.30	296.33	1672.41	1212.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.84	221.25	1908.61	1126.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.33	282.71	1737.29	1203.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.09	221.62	1278.92	1389.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.94	241.06	1235.31	1409.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.85	420.63	1634.68	1252.11	0.0	12.72	0.0	0.0	0.0	0.0	0.0
674.76	260.83	1187.57	1431.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.56	494.83	1236.34	1414.96	0.0	4.56	0.0	0.0	0.0	0.0	0.0
674.36	850.36	1419.62	1346.18	0.0	14.26	0.0	0.0	0.0	0.0	0.0
674.17	299.09	1023.69	1506.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.99	724.59	1411.07	1355.83	0.0	20.71	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
673.94	317.42	1503.21	1319.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.75	317.91	904.13	1560.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.65	289.35	1560.21	1302.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.49	328.29	842.60	1589.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.27	241.80	1860.56	1189.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.06	294.90	1622.14	1287.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.98	617.17	1317.20	1410.07	0.0	25.35	0.0	0.0	0.0	0.0	0.0
672.77	126.78	547.93	1719.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.30	290.27	1685.98	1275.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.24	214.30	1915.33	1185.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.96	459.91	645.58	1694.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.84	390.76	585.92	1720.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.51	502.89	719.34	1672.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.44	276.24	1749.57	1264.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.19	197.01	1965.77	1183.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.71	220.22	1304.61	1453.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.59	237.82	1261.57	1472.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.51	255.54	1811.53	1255.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.46	470.79	1274.12	1470.09	0.0	2.66	0.0	0.0	0.0	0.0	0.0
670.30	275.52	1162.81	1517.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.24	213.76	1389.46	1428.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.12	495.76	1484.79	1392.29	0.0	17.94	0.0	0.0	0.0	0.0	0.0
670.05	193.72	1432.17	1414.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.94	296.65	1050.49	1567.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.88	219.76	1474.40	1400.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.74	581.59	1246.82	1493.59	0.0	10.57	0.0	0.0	0.0	0.0	0.0
669.55	527.78	1330.60	1463.08	0.0	18.66	0.0	0.0	0.0	0.0	0.0
669.42	271.80	1580.13	1366.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.34	290.99	872.34	1648.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.03	499.98	1428.36	1433.61	0.0	24.64	0.0	0.0	0.0	0.0	0.0
668.95	281.03	1638.12	1351.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.79	188.00	1920.83	1241.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.59	155.33	772.48	1701.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.29	280.50	1700.38	1338.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.92	125.20	576.35	1790.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.78	161.60	1968.60	1240.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.58	265.38	1762.35	1325.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.86	244.17	1822.31	1314.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.72	366.20	672.38	1773.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.38	312.38	617.91	1800.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.33	725.32	1273.64	1540.65	0.0	25.40	0.0	0.0	0.0	0.0	0.0
666.26	232.88	1287.43	1536.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.16	464.62	1300.37	1533.43	0.0	2.59	0.0	0.0	0.0	0.0	0.0
666.04	485.29	1492.58	1458.62	0.0	13.77	0.0	0.0	0.0	0.0	0.0
665.90	494.97	1253.08	1556.28	0.0	5.60	0.0	0.0	0.0	0.0	0.0
665.78	715.52	1314.01	1534.74	0.0	8.40	0.0	0.0	0.0	0.0	0.0
665.56	705.58	1413.58	1498.30	0.0	18.10	0.0	0.0	0.0	0.0	0.0
665.43	296.93	958.35	1681.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.35	875.72	1195.05	1589.48	0.0	23.45	0.0	0.0	0.0	0.0	0.0
665.23	263.78	840.90	1731.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.05	243.09	2058.06	1251.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.90	264.69	1656.42	1413.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.37	264.95	1715.93	1398.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.82	253.37	1776.40	1384.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.26	237.13	1834.66	1370.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.07	103.48	604.76	1862.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.87	321.00	638.50	1852.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.70	222.90	1891.35	1357.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.58	287.14	2000.74	1316.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.34	218.38	1945.88	1342.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.20	318.64	696.26	1840.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.95	669.65	1308.74	1601.81	0.0	1.78	0.0	0.0	0.0	0.0	0.0
661.85	737.15	1087.08	1691.90	0.0	12.81	0.0	0.0	0.0	0.0	0.0
661.73	279.68	1160.59	1664.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.67	655.20	1478.96	1539.09	0.0	1.63	0.0	0.0	0.0	0.0	0.0
661.59	289.43	1103.49	1689.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.54	229.45	1567.92	1505.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.44	562.43	931.39	1760.77	0.0	4.79	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
661.32	542.03	1271.79	1627.37	0.0	12.63	0.0	0.0	0.0	0.0	0.0
661.25	578.18	895.12	1778.15	0.0	1.19	0.0	0.0	0.0	0.0	0.0
661.17	252.37	2058.06	1317.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.99	248.15	1675.48	1472.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.58	248.51	1732.92	1456.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.14	240.07	1791.26	1441.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.68	228.92	1847.95	1426.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.17	226.22	1903.58	1413.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.58	222.56	1960.12	1400.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.23	315.28	1655.50	1528.32	0.0	27.26	0.0	0.0	0.0	0.0	0.0
657.84	441.27	1313.66	1670.32	0.0	0.89	0.0	0.0	0.0	0.0	0.0
657.76	254.23	1241.58	1700.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.56	1613.06	1432.61	1627.50	0.0	7.98	0.0	0.0	0.0	0.0	0.0
657.47	517.64	1357.22	1659.28	0.0	10.12	0.0	0.0	0.0	0.0	0.0
657.39	267.93	722.42	1912.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.33	811.04	1257.30	1701.37	0.0	25.41	0.0	0.0	0.0	0.0	0.0
657.23	816.04	1143.54	1748.24	0.0	17.18	0.0	0.0	0.0	0.0	0.0
657.15	596.29	920.07	1838.38	0.0	1.22	0.0	0.0	0.0	0.0	0.0
656.97	384.13	673.06	1939.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.92	233.67	1749.67	1512.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.59	226.64	1806.18	1496.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.19	215.48	1861.11	1480.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.69	206.28	1914.89	1468.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.06	191.27	1967.11	1458.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
654.32	200.69	2011.36	1453.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.95	209.94	1360.25	1718.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.89	460.73	1452.71	1682.44	0.0	4.97	0.0	0.0	0.0	0.0	0.0
653.83	206.05	1613.57	1619.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.74	459.02	1455.62	1683.94	0.0	7.79	0.0	0.0	0.0	0.0	0.0
653.59	488.05	1441.93	1691.99	0.0	9.90	0.0	0.0	0.0	0.0	0.0
653.46	296.29	693.65	1991.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.38	834.04	1497.63	1673.31	0.0	27.75	0.0	0.0	0.0	0.0	0.0
653.25	297.79	1099.62	1833.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.14	516.43	1361.97	1731.49	0.0	15.54	0.0	0.0	0.0	0.0	0.0
653.02	1478.64	859.76	1932.98	0.0	4.62	0.0	0.0	0.0	0.0	0.0
652.80	199.43	1875.43	1533.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.58	223.40	1403.02	1701.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.41	175.81	1926.56	1519.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
651.80	148.99	1973.66	1511.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.63	187.93	2012.47	1515.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.18	624.27	1550.76	1706.85	0.0	5.01	0.0	0.0	0.0	0.0	0.0
650.08	610.43	1597.54	1690.27	0.0	7.70	0.0	0.0	0.0	0.0	0.0
649.99	220.53	1295.71	1811.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.91	208.64	1786.05	1618.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.79	200.96	1838.74	1599.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.70	258.90	1244.66	1836.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.59	187.88	1890.47	1582.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.52	218.92	2058.06	1516.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.39	238.29	1952.37	1561.16	0.0	0.63	0.0	0.0	0.0	0.0	0.0
649.29	292.23	1188.05	1866.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.15	303.02	1127.77	1892.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.03	567.23	1229.38	1846.05	0.0	8.05	0.0	0.0	0.0	0.0	0.0
648.95	307.36	1002.77	1945.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.90	297.99	940.89	1971.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.78	284.80	881.14	1996.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.56	354.02	794.32	2035.15	0.0	2.71	0.0	0.0	0.0	0.0	0.0
648.19	262.66	775.90	2048.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
647.57	390.93	728.21	2078.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.88	254.09	2005.94	1582.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.75	131.41	1364.64	1839.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.57	199.72	1805.45	1667.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.52	1679.13	1582.13	1756.74	0.0	10.62	0.0	0.0	0.0	0.0	0.0
646.44	575.61	1832.98	1658.69	0.0	5.87	0.0	0.0	0.0	0.0	0.0
645.93	252.67	1279.14	1887.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.64	227.28	2058.06	1583.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.28	298.12	1219.30	1922.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.06	298.80	1156.42	1951.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
644.92	609.12	1060.24	1992.04	0.0	1.33	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
644.86	538.66	936.75	2041.90	0.0	1.15	0.0	0.0	0.0	0.0	0.0
644.55	292.24	976.45	2030.64	0.0	10.24	0.0	0.0	0.0	0.0	0.0
644.41	75.37	1342.60	1888.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.75	377.07	809.96	2111.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.69	145.14	718.41	2148.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.42	171.62	1873.69	1694.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.28	346.42	1870.48	1697.78	0.0	1.95	0.0	0.0	0.0	0.0	0.0
643.16	196.88	1776.44	1737.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.04	574.44	1425.49	1878.44	0.0	24.08	0.0	0.0	0.0	0.0	0.0
642.73	203.51	2011.77	1651.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
642.56	564.28	1518.68	1849.80	0.0	5.63	0.0	0.0	0.0	0.0	0.0
642.36	508.49	1548.40	1841.46	0.0	3.28	0.0	0.0	0.0	0.0	0.0
642.31	360.57	1328.84	1929.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.76	214.34	2058.06	1649.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.71	331.30	1253.37	1969.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.63	133.46	877.36	2120.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.40	303.99	1184.48	2002.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.21	518.50	1034.23	2065.33	0.0	3.84	0.0	0.0	0.0	0.0	0.0
641.02	563.03	1019.18	2074.90	0.0	1.30	0.0	0.0	0.0	0.0	0.0
640.62	132.71	1890.52	1735.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.51	117.45	1932.64	1720.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.38	263.34	1803.71	1773.79	0.0	1.87	0.0	0.0	0.0	0.0	0.0
639.94	145.80	1972.25	1714.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.77	195.60	1800.83	1785.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.66	156.57	789.74	2189.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.23	159.53	2016.43	1709.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.17	536.65	1166.33	1989.67	0.0	20.49	0.0	0.0	0.0	0.0	0.0
638.84	105.43	746.83	2220.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.57	63.38	1938.08	1751.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.52	186.88	781.25	2211.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.41	338.32	1726.88	1838.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.23	96.90	1908.31	1769.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.18	699.08	1611.45	1887.94	0.0	7.41	0.0	0.0	0.0	0.0	0.0
638.00	1060.39	1243.21	2037.05	0.0	9.78	0.0	0.0	0.0	0.0	0.0
637.94	65.52	1837.03	1802.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.85	531.97	1571.19	1909.37	0.0	15.46	0.0	0.0	0.0	0.0	0.0
637.70	285.50	1210.38	2055.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.61	609.74	1076.28	2110.12	0.0	2.74	0.0	0.0	0.0	0.0	0.0
637.55	263.67	1071.89	2113.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.07	184.15	1794.77	1834.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.97	175.13	1973.28	1764.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.63	105.77	2017.62	1753.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.33	120.60	1927.59	1793.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.13	491.54	1264.54	2060.70	0.0	21.36	0.0	0.0	0.0	0.0	0.0
635.19	192.45	879.77	2229.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
634.00	4981.33	1356.10	2060.82	0.0	25.48	1253.77	2101.80	0.332	0.308	0.310
632.92	68.49	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.78	69.69	1464.83	1614.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.34	142.52	1063.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.92	68.99	1497.72	1601.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.79	1050.45	1151.59	2179.71	0.0	14.79	0.0	0.0	0.0	0.0	0.0
631.71	177.74	1103.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
630.84	215.71	1157.68	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.94	226.74	1217.02	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.16	242.57	1278.40	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
628.24	255.15	1347.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
627.13	258.15	1417.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
625.27	263.80	1489.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.44	260.69	700.11	1244.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.26	259.91	633.57	1271.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
623.54	526.36	1164.76	1062.46	0.0	15.57	0.0	0.0	0.0	0.0	0.0
623.20	123.15	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.69	248.69	1088.51	1090.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.18	253.61	1025.86	1115.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
621.98	791.57	1119.68	1089.06	0.0	14.26	0.0	0.0	0.0	0.0	0.0
621.65	258.40	962.15	1140.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.53	260.72	1705.31	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.19	265.08	568.54	1296.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
619.13	258.58	1776.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
617.77	256.00	1847.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
616.43	253.14	1918.25	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
615.09	250.62	1988.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.84	276.54	503.94	1322.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.76	249.45	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
611.41	161.02	1442.94	1623.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
606.28	324.82	1464.94	1614.83	0.0	3.28	0.0	0.0	0.0	0.0	0.0
603.65	259.38	2058.06	975.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601.18	162.65	1402.55	1700.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	2342.44	563.21	1662.92	0.0	36.34	549.80	1629.15	0.0	1.4626e+06	1.4655e+06
597.60	163.59	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.67	168.95	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.54	159.15	1425.12	1757.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
594.22	319.62	1398.25	1208.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.85	308.42	1424.53	1274.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.00	1267.50	1973.42	1472.63	0.0	41.87	0.0	0.0	0.0	0.0	0.0
589.21	179.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
588.39	252.21	2058.06	1318.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
587.49	151.36	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.66	239.85	2058.06	1387.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.40	217.59	754.26	2143.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
584.37	230.68	2058.06	1455.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
582.84	525.73	1530.30	1777.17	0.0	3.28	0.0	0.0	0.0	0.0	0.0
581.76	223.18	2058.06	1522.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
580.05	272.30	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
579.14	140.62	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.99	216.75	2058.06	1588.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.76	219.62	781.07	2211.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.51	211.84	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.88	215.04	1469.28	1868.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.06	211.78	2058.06	1653.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
575.53	402.32	1868.22	1857.40	0.0	5.04	0.0	0.0	0.0	0.0	0.0
574.03	212.77	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.55	215.12	1495.07	1933.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.80	2093.01	1218.35	2115.53	0.0	14.14	0.0	0.0	0.0	0.0	0.0
572.64	233.77	948.31	2222.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.55	208.30	2058.06	1718.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.41	231.55	877.39	2250.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
569.33	416.93	1865.24	1858.58	0.0	7.41	0.0	0.0	0.0	0.0	0.0
556.69	74.14	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
556.27	154.14	1066.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.85	178.75	1109.10	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.35	207.56	1160.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.00	1115.12	1413.98	1297.56	0.0	37.04	0.0	0.0	0.0	0.0	0.0
554.95	221.56	1218.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
552.02	272.99	1488.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
550.94	535.50	670.98	1256.29	0.0	1.35	0.0	0.0	0.0	0.0	0.0
550.17	269.20	1561.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
549.40	117.63	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.86	264.80	771.44	1216.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.76	266.45	1634.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.64	238.61	1091.40	1089.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.86	245.49	1030.92	1113.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.55	263.69	1707.20	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.06	254.28	968.14	1138.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546.87	381.07	1065.78	1347.21	0.0	29.31	0.0	0.0	0.0	0.0	0.0
546.44	260.37	1779.17	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.52	262.96	571.29	1295.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.38	521.94	1334.57	1051.22	0.0	14.15	0.0	0.0	0.0	0.0	0.0
544.35	250.80	1920.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
543.33	246.16	1989.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
542.32	244.43	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
539.81	259.78	505.18	1322.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
538.16	179.27	1403.05	1701.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
537.08	185.55	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.28	133.62	1871.67	1856.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
532.00	614.25	507.87	1523.60	0.0	36.34	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
529.80	247.65	2058.06	975.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
526.89	185.77	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
525.93	117.02	1910.01	1840.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
523.69	233.75	754.10	2143.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
519.13	605.14	1519.58	1781.43	0.0	3.28	0.0	0.0	0.0	0.0	0.0
518.19	277.59	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
517.85	137.89	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517.22	722.05	1658.19	1622.73	0.0	44.58	0.0	0.0	0.0	0.0	0.0
516.31	229.38	2058.06	1460.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
515.00	675.44	1941.28	1584.23	0.0	41.87	0.0	0.0	0.0	0.0	0.0
514.87	210.65	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
514.81	219.65	2058.06	1528.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.36	213.38	1494.44	1931.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.03	210.94	2058.06	1594.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
511.60	2557.91	1162.97	2137.53	0.0	14.14	0.0	0.0	0.0	0.0	0.0
511.37	238.73	1466.98	1862.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.94	203.29	2058.06	1658.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.18	211.08	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
509.33	988.27	595.15	1743.34	0.0	22.58	0.0	0.0	0.0	0.0	0.0
508.80	439.77	1868.22	1857.40	0.0	5.04	0.0	0.0	0.0	0.0	0.0
507.93	197.57	2058.06	1720.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507.73	170.78	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
505.47	324.85	1399.30	1211.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
504.67	416.19	1863.17	1859.41	0.0	7.41	0.0	0.0	0.0	0.0	0.0
503.22	301.29	1425.36	1277.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
501.00	146.11	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.74	68.76	1875.48	1854.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.46	74.81	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.21	154.94	1066.89	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.95	180.69	1109.50	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.65	209.66	1162.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.42	220.36	1219.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.33	828.39	1427.56	1400.74	0.0	37.04	0.0	0.0	0.0	0.0	0.0
477.82	284.44	1409.85	1718.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
477.65	278.03	1488.13	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.35	273.78	1562.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.11	269.28	710.31	1240.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.67	272.29	642.40	1267.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.60	111.76	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.32	270.51	1636.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.78	262.90	776.93	1214.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.46	267.27	1709.54	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.18	236.10	1036.81	1110.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.02	224.57	1093.76	1088.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.68	263.21	1782.32	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.44	252.45	974.62	1135.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.96	517.52	1379.12	1035.02	0.0	12.72	0.0	0.0	0.0	0.0	0.0
472.61	267.41	574.24	1294.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.25	247.95	1924.23	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.90	363.97	1127.26	1381.90	0.0	34.03	0.0	0.0	0.0	0.0	0.0
471.70	117.36	1910.50	1840.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.56	239.49	1991.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
470.88	238.57	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
469.41	202.49	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467.57	257.92	505.29	1322.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
464.00	614.16	508.03	1523.98	0.0	36.34	0.0	0.0	0.0	0.0	0.0
461.81	192.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.99	237.48	754.04	2143.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.27	233.30	2058.06	975.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455.42	543.32	1528.13	1778.03	0.0	3.28	0.0	0.0	0.0	0.0	0.0
455.15	280.92	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
455.05	140.12	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.52	229.10	780.93	2211.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.06	188.06	1471.53	1874.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452.91	201.10	1495.97	1935.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
451.77	207.96	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.69	226.02	875.58	2251.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.54	230.97	945.05	2224.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
450.40	2099.17	1216.80	2116.15	0.0	14.14	0.0	0.0	0.0	0.0	0.0
450.22	457.64	2058.06	1430.83	0.0	3.55	0.0	0.0	0.0	0.0	0.0
449.53	211.15	2058.06	1535.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.57	201.35	2058.06	1600.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.14	245.12	2058.06	1321.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
447.26	394.44	1852.10	1769.68	0.0	10.25	0.0	0.0	0.0	0.0	0.0
445.02	180.27	2058.06	1723.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	1728.18	1923.78	1644.79	0.0	44.36	1963.11	1856.31	0.217	0.368	3.505
424.02	67.10	1913.18	1839.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
418.67	988.27	595.15	1743.34	0.0	22.58	0.0	0.0	0.0	0.0	0.0
417.87	189.84	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
416.73	335.23	1401.97	1218.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
415.61	282.59	1427.01	1281.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414.50	135.88	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.11	92.55	1874.77	1854.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
406.17	380.30	1412.87	1726.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.11	215.93	1052.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.00	180.24	1104.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.85	222.25	1160.39	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.73	224.25	1220.21	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.67	849.79	1426.74	1407.68	0.0	37.04	0.0	0.0	0.0	0.0	0.0
402.89	280.66	1488.47	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402.24	549.20	1143.36	1071.30	0.0	16.59	0.0	0.0	0.0	0.0	0.0
401.87	274.15	645.40	1266.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.80	100.87	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.71	274.55	1638.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.40	204.78	1099.38	1086.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.34	265.04	782.10	1212.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.26	271.68	1712.43	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.98	229.48	1045.41	1107.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.86	268.03	1786.38	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.49	261.89	1859.44	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.29	269.23	576.08	1293.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.13	505.78	1371.57	1050.99	0.0	13.93	0.0	0.0	0.0	0.0	0.0
399.90	261.30	916.43	1158.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.78	482.28	1460.89	1026.01	0.0	11.27	0.0	0.0	0.0	0.0	0.0
399.44	230.89	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.12	206.65	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
398.40	258.73	506.57	1321.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
396.00	615.86	507.86	1523.57	0.0	36.34	0.0	0.0	0.0	0.0	0.0
395.20	195.36	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
395.15	197.19	1471.86	1874.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
393.60	238.73	754.02	2143.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392.42	220.16	2058.06	975.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
391.71	609.99	1519.23	1781.57	0.0	3.28	0.0	0.0	0.0	0.0	0.0
391.65	423.14	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
391.35	230.36	780.90	2210.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
390.86	202.88	1496.26	1936.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.65	205.39	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.20	2556.25	1161.88	2137.96	0.0	14.14	0.0	0.0	0.0	0.0	0.0
388.08	210.70	2058.06	1474.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.93	231.51	2058.06	1403.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.84	201.78	2058.06	1542.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.44	193.66	2058.06	1607.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.21	197.51	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
386.85	422.70	2058.06	1468.93	0.0	17.37	0.0	0.0	0.0	0.0	0.0
385.81	161.81	2058.06	1727.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384.00	2018.56	1941.10	1585.50	0.0	44.36	1957.35	1855.12	0.206	0.154	4.707
328.00	1.876e+05	1300.09	1513.79	0.0	70.85	1388.66	1256.09	0.820	0.172	0.438
327.92	289.07	1442.58	1801.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322.58	553.23	1412.62	1725.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.00	1010.16	2058.06	1616.01	0.0	18.20	0.0	0.0	0.0	0.0	0.0
255.15	246.38	1998.89	1805.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.00	1693.16	979.01	1884.36	0.0	19.53	0.0	0.0	0.0	0.0	0.0
248.97	270.22	1938.69	1829.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.95	303.04	679.61	1576.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.69	311.70	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
245.99	573.09	1843.55	1867.20	0.0	1.25	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
244.12	315.79	652.46	1508.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.03	292.93	1749.79	1904.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.66	394.73	1062.00	1179.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.61	324.38	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.23	385.55	2058.06	1325.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.64	378.11	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.57	396.87	973.36	2072.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.00	3734.62	1408.22	1664.89	0.0	59.95	1628.78	1789.87	0.104	4.133	2.042
240.39	328.39	1867.36	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.08	343.85	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.77	329.95	1792.24	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.16	331.42	1717.14	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.10	346.46	770.27	1379.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.53	332.68	1642.08	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
237.85	683.01	1196.64	1134.18	0.0	22.19	0.0	0.0	0.0	0.0	0.0
237.60	861.26	1581.16	1207.16	0.0	35.56	0.0	0.0	0.0	0.0	0.0
236.92	333.00	1492.62	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.70	354.16	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.27	363.49	1234.52	1471.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.06	326.99	1419.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234.32	389.38	1181.84	1407.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232.21	354.71	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.35	1154.10	1551.92	1340.08	0.0	41.73	0.0	0.0	0.0	0.0	0.0
230.42	362.27	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.10	325.13	1348.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.12	351.25	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228.78	435.41	1124.11	1338.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227.95	1347.88	1400.23	1213.78	0.0	27.14	0.0	0.0	0.0	0.0	0.0
225.10	380.48	1412.34	1725.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.00	5852.58	1409.33	1251.38	0.0	37.04	1431.17	1112.32	0.763	0.078	0.483
190.00	1532.51	2058.06	1611.37	0.0	18.20	0.0	0.0	0.0	0.0	0.0
175.00	661.95	992.27	1892.18	0.0	19.53	0.0	0.0	0.0	0.0	0.0
172.44	290.23	1997.53	1806.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.26	311.28	679.37	1576.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.91	318.15	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.77	291.25	1936.29	1830.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.90	296.60	1873.73	1855.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.92	392.15	2058.06	1323.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.84	321.45	652.11	1507.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.52	329.65	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.32	296.26	1810.61	1880.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.34	296.90	1748.47	1904.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.00	5136.76	1348.90	1685.30	0.0	59.95	1635.23	1789.26	0.082	6.756	2.167
153.16	324.77	1867.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.74	341.23	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.31	324.67	1793.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.47	665.48	1232.60	1149.30	0.0	23.64	0.0	0.0	0.0	0.0	0.0
150.61	323.97	1643.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.27	835.24	1581.16	1207.16	0.0	35.56	0.0	0.0	0.0	0.0	0.0
149.91	340.39	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.71	322.74	1569.48	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.61	319.80	1495.42	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.69	338.17	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.42	352.53	1233.37	1469.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.34	313.66	1422.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.71	370.39	1179.71	1405.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.99	814.27	1584.89	1202.08	0.0	33.56	0.0	0.0	0.0	0.0	0.0
143.89	334.03	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.73	329.89	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.29	302.20	1349.95	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.46	385.49	1122.30	1336.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.15	316.29	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.26	1207.38	1400.13	1213.54	0.0	27.08	0.0	0.0	0.0	0.0	0.0
137.48	364.32	1411.20	1722.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.67	4043.32	1385.64	1263.08	0.0	37.04	0.0	0.0	0.0	0.0	0.0
100.32	198.40	1122.05	2013.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.00	2193.28	963.68	1871.31	0.0	19.53	0.0	0.0	0.0	0.0	0.0
84.98	688.93	2058.06	1748.89	0.0	3.28	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
84.92	387.14	2058.06	1648.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.71	426.86	2058.06	1568.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.91	434.43	2058.06	1486.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.93	431.34	2058.06	1403.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.40	348.25	679.70	1576.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.10	355.30	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.18	320.67	1996.61	1806.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.13	308.74	1934.84	1830.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.22	342.62	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.00	335.06	652.21	1507.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.38	304.09	1872.63	1855.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.00	300.27	1809.96	1880.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.80	381.10	2058.06	1317.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.74	399.84	1062.00	1196.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68.48	296.66	1747.36	1905.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.00	4051.24	1407.34	1672.26	0.0	59.95	1635.23	1789.26	0.082	5.377	2.439
66.48	410.65	973.46	2072.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.42	321.33	1868.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.36	391.02	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.14	338.87	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.84	319.74	1794.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.26	654.35	1231.86	1149.99	0.0	23.64	0.0	0.0	0.0	0.0	0.0
64.76	823.25	1581.15	1207.16	0.0	35.56	0.0	0.0	0.0	0.0	0.0
64.68	316.24	1645.65	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.28	333.16	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.08	313.93	1571.57	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.39	310.71	1497.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.27	336.37	1233.86	1470.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.12	358.31	1181.26	1407.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.01	328.56	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.42	306.01	1424.19	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.97	799.50	1583.13	1201.28	0.0	33.56	0.0	0.0	0.0	0.0	0.0
61.11	320.45	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.81	297.04	1351.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.75	318.21	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.59	380.86	1123.06	1337.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.11	304.80	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59.74	1163.89	1400.22	1213.76	0.0	27.05	0.0	0.0	0.0	0.0	0.0
58.33	3957.57	1387.69	1261.01	0.0	37.04	0.0	0.0	0.0	0.0	0.0
53.98	332.16	1407.54	1713.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	4.607e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.746	0.148	0.761	5458.07	1.2	3.724e+05	80.8	586.85	0.1	0.0	0.0
2	7.095	0.141	0.752	3.486e+05	75.7	2483.82	0.5	2772.49	0.6	0.0	0.0
3	9.401	0.106	0.646	2846.82	0.6	2025.04	0.4	4.086e+04	8.9	0.0	0.0
4	9.789	0.102	0.633	3.694e+04	8.0	3368.07	0.7	5.892e+04	12.8	0.0	0.0
5	14.151	0.071	0.536	1.627e+04	3.5	1564.65	0.3	2.363e+05	51.3	0.0	0.0
6	15.010	0.067	0.523	1.777e+04	3.9	3.540e+04	7.7	2.321e+04	5.0	0.0	0.0
7	16.728	0.060	0.502	1.838e+04	4.0	1.338e+04	2.9	4.198e+04	9.1	0.0	0.0
8	17.143	0.058	0.498	7229.89	1.6	8757.00	1.9	1.233e+04	2.7	0.0	0.0
9	19.275	0.052	0.478	898.83	0.2	1.572e+04	3.4	2390.48	0.5	0.0	0.0
10	20.754	0.048	0.467	1706.98	0.4	3043.90	0.7	8810.07	1.9	0.0	0.0
11	24.060	0.042	0.446	3148.72	0.7	857.86	0.2	2.442e+04	5.3	0.0	0.0
12	29.064	0.034	0.424	50.42	1.09e-02	901.40	0.2	1321.11	0.3	0.0	0.0
13	38.246	0.026	0.399	749.72	0.2	0.64	1.38e-04	5464.99	1.2	0.0	0.0
14	42.380	0.024	0.391	363.01	7.88e-02	287.02	6.23e-02	0.39	8.36e-05	0.0	0.0
15	44.538	0.022	0.388	62.06	1.35e-02	353.58	7.67e-02	1002.11	0.2	0.0	0.0
Risulta				4.605e+05		4.606e+05		4.604e+05			
In percentuale				99.95		99.97		99.93			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.131
			ordinata spettro (tratto Tb-Tc) = 0.761 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.149 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 15
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
790.00	897.50	1497.15	1698.89	11.48	0.0	1496.46	1696.46	1.152	0.006	0.023
745.85	520.56	1464.30	1615.09	8.25	0.0	0.0	0.0	0.0	0.0	0.0
744.63	132.33	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.85	134.16	1402.73	1700.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.20	519.60	1517.03	1749.35	9.32	0.0	0.0	0.0	0.0	0.0	0.0
741.31	217.84	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
740.99	109.93	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
709.15	30.09	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
708.45	60.87	1057.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
707.75	140.79	1087.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
706.28	203.10	1151.07	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.80	187.17	1214.73	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.17	95.25	1108.43	959.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.80	160.93	1152.74	948.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.35	381.64	1259.61	914.38	3.61	0.0	0.0	0.0	0.0	0.0	0.0
701.67	763.76	1427.69	1390.04	9.87	0.0	0.0	0.0	0.0	0.0	0.0
700.91	157.37	1249.36	959.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.83	266.76	1198.79	981.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.58	139.99	1129.45	1012.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.02	303.81	1420.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.35	199.05	1301.63	965.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.26	132.10	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.13	150.58	1349.84	950.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.49	129.53	1269.99	992.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.37	304.92	1491.03	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.26	91.82	1239.68	1008.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.05	133.29	1403.15	1701.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.00	3688.11	762.27	1220.03	37.23	0.0	0.0	0.0	0.0	0.0	0.0
696.81	134.56	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.73	288.08	1561.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.37	235.57	1205.81	1054.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.09	463.86	1400.35	982.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.75	136.14	1425.26	1757.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.39	419.61	1296.93	1035.07	3.73	0.0	0.0	0.0	0.0	0.0	0.0
695.25	156.23	1288.42	1040.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.08	276.34	1632.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.47	379.35	1487.82	974.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.36	255.29	1525.77	1778.97	8.25	0.0	0.0	0.0	0.0	0.0	0.0
693.67	499.45	877.79	1230.98	3.16	0.0	0.0	0.0	0.0	0.0	0.0
693.58	499.13	876.93	1232.60	9.47	0.0	0.0	0.0	0.0	0.0	0.0
693.49	250.15	721.35	1296.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.43	269.22	1703.67	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.25	261.21	1036.77	1175.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.97	589.49	1163.94	1129.15	45.04	0.0	0.0	0.0	0.0	0.0	0.0
692.62	296.87	1176.16	1130.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.19	701.10	1046.28	1189.49	39.47	0.0	0.0	0.0	0.0	0.0	0.0
691.78	453.85	1562.43	991.61	25.35	0.0	0.0	0.0	0.0	0.0	0.0
691.55	522.03	1590.70	1311.39	7.45	0.0	0.0	0.0	0.0	0.0	0.0
691.49	199.01	1308.75	1097.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.43	254.06	1348.10	1082.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
691.28	374.30	1420.14	1056.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.08	320.46	613.76	1380.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.69	98.30	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.56	540.69	544.42	1416.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.38	848.21	1182.75	1166.23	28.42	0.0	0.0	0.0	0.0	0.0	0.0
690.33	527.47	835.06	1305.49	3.12	0.0	0.0	0.0	0.0	0.0	0.0
690.27	242.92	742.53	1342.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.14	459.50	1502.59	1043.04	40.04	0.0	0.0	0.0	0.0	0.0	0.0
690.05	461.52	1306.43	1122.79	50.93	0.0	0.0	0.0	0.0	0.0	0.0
689.84	612.77	480.39	1454.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.78	119.67	1087.82	1214.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.43	143.48	655.70	1391.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.11	324.72	1570.74	1033.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.49	541.22	1848.35	933.79	6.98	0.0	0.0	0.0	0.0	0.0	0.0
688.24	424.69	968.13	1287.97	29.42	0.0	0.0	0.0	0.0	0.0	0.0
687.94	214.49	1245.83	1182.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.83	301.69	1642.31	1027.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.73	258.46	1150.40	1224.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.65	207.16	1288.75	1170.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.46	344.51	1348.69	1150.22	2.00	0.0	0.0	0.0	0.0	0.0	0.0
687.36	213.48	1378.79	1139.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.31	80.80	462.69	1504.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.15	320.43	1436.74	1120.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.99	551.44	1358.16	1154.77	58.64	0.0	0.0	0.0	0.0	0.0	0.0
686.84	310.77	1987.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.71	481.96	1032.75	1288.51	2.71	0.0	0.0	0.0	0.0	0.0	0.0
686.65	482.42	849.59	1362.41	11.80	0.0	0.0	0.0	0.0	0.0	0.0
686.56	570.14	1294.49	1187.09	41.16	0.0	0.0	0.0	0.0	0.0	0.0
686.47	552.90	798.48	1385.55	2.97	0.0	0.0	0.0	0.0	0.0	0.0
686.34	333.92	1508.16	1105.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.27	264.31	1779.78	1016.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.19	534.44	1774.46	1019.28	23.89	0.0	0.0	0.0	0.0	0.0	0.0
685.09	260.27	1912.47	966.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.73	449.41	651.04	1473.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.33	505.36	580.40	1508.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.11	299.07	1650.18	1087.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.01	238.12	1846.37	1011.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.94	607.95	514.95	1541.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.85	234.34	1227.54	1259.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.61	214.76	1270.09	1247.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.51	243.88	1180.81	1284.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.36	215.75	1313.04	1234.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.16	437.53	1236.11	1268.59	11.06	0.0	0.0	0.0	0.0	0.0	0.0
682.97	1025.40	1271.44	1257.70	49.64	0.0	0.0	0.0	0.0	0.0	0.0
682.92	254.71	1084.64	1332.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.70	603.36	1262.49	1265.32	21.37	0.0	0.0	0.0	0.0	0.0	0.0
682.58	290.92	972.70	1382.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.45	1266.16	1323.58	1245.84	74.61	0.0	0.0	0.0	0.0	0.0	0.0
682.37	309.82	851.72	1434.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.16	325.65	1523.68	1171.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.77	267.45	1784.17	1074.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.27	313.70	1592.25	1159.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.07	430.85	2028.56	989.33	5.52	0.0	0.0	0.0	0.0	0.0	0.0
680.52	245.14	1846.92	1070.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
680.26	299.69	1660.29	1149.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.47	224.04	1253.23	1324.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.28	448.62	1532.15	1217.06	34.70	0.0	0.0	0.0	0.0	0.0	0.0
679.23	500.91	1541.38	1214.37	21.56	0.0	0.0	0.0	0.0	0.0	0.0
679.05	256.78	1162.15	1367.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.98	218.44	1338.66	1299.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.80	273.01	1109.85	1392.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.73	296.07	1382.11	1285.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.59	285.02	1054.97	1418.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.48	320.48	1424.00	1273.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.40	297.14	997.56	1444.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.34	499.70	1652.54	1185.44	23.80	0.0	0.0	0.0	0.0	0.0	0.0
678.23	308.84	938.50	1470.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.09	592.10	1291.42	1332.81	45.70	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
677.99	856.31	736.12	1554.98	6.53	0.0	0.0	0.0	0.0	0.0	0.0
677.93	1105.16	969.25	1463.97	69.28	0.0	0.0	0.0	0.0	0.0	0.0
677.86	309.54	1542.04	1237.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.61	82.62	519.52	1647.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.29	588.88	553.93	1639.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.17	305.52	1606.63	1223.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.94	531.48	1963.67	1085.32	10.27	0.0	0.0	0.0	0.0	0.0	0.0
676.30	296.33	1672.41	1212.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.84	221.25	1908.61	1126.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.33	282.71	1737.29	1203.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.09	221.62	1278.92	1389.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.94	241.06	1235.31	1409.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.85	420.63	1634.68	1252.11	32.04	0.0	0.0	0.0	0.0	0.0	0.0
674.76	260.83	1187.57	1431.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.56	494.83	1236.34	1414.96	11.43	0.0	0.0	0.0	0.0	0.0	0.0
674.36	850.36	1419.62	1346.18	35.96	0.0	0.0	0.0	0.0	0.0	0.0
674.17	299.09	1023.69	1506.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.99	724.59	1411.07	1355.83	52.18	0.0	0.0	0.0	0.0	0.0	0.0
673.94	317.42	1503.21	1319.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.75	317.91	904.13	1560.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.65	289.35	1560.21	1302.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.49	328.29	842.60	1589.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.27	241.80	1860.56	1189.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.06	294.90	1622.14	1287.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.98	617.17	1317.20	1410.07	63.83	0.0	0.0	0.0	0.0	0.0	0.0
672.77	126.78	547.93	1719.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.30	290.27	1685.98	1275.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.24	214.30	1915.33	1185.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.96	459.91	645.58	1694.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.84	390.76	585.92	1720.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.51	502.89	719.34	1672.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.44	276.24	1749.57	1264.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.19	197.01	1965.77	1183.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.71	220.22	1304.61	1453.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.59	237.82	1261.57	1472.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.51	255.54	1811.53	1255.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.46	470.79	1274.12	1470.09	6.63	0.0	0.0	0.0	0.0	0.0	0.0
670.30	275.52	1162.81	1517.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.24	213.76	1389.46	1428.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.12	495.76	1484.79	1392.29	45.13	0.0	0.0	0.0	0.0	0.0	0.0
670.05	193.72	1432.17	1414.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.94	296.65	1050.49	1567.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.88	219.76	1474.40	1400.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.74	581.59	1246.82	1493.59	26.67	0.0	0.0	0.0	0.0	0.0	0.0
669.55	527.78	1330.60	1463.08	46.90	0.0	0.0	0.0	0.0	0.0	0.0
669.42	271.80	1580.13	1366.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.34	290.99	872.34	1648.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.03	499.98	1428.36	1433.61	62.08	0.0	0.0	0.0	0.0	0.0	0.0
668.95	281.03	1638.12	1351.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.79	188.00	1920.83	1241.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.59	155.33	772.48	1701.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.29	280.50	1700.38	1338.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.92	125.20	576.35	1790.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.78	161.60	1968.60	1240.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.58	265.38	1762.35	1325.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.86	244.17	1822.31	1314.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.72	366.20	672.38	1773.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.38	312.38	617.91	1800.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.33	725.32	1273.64	1540.65	63.90	0.0	0.0	0.0	0.0	0.0	0.0
666.26	232.88	1287.43	1536.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.16	464.62	1300.37	1533.43	6.57	0.0	0.0	0.0	0.0	0.0	0.0
666.04	485.29	1492.58	1458.62	34.57	0.0	0.0	0.0	0.0	0.0	0.0
665.90	494.97	1253.08	1556.28	14.02	0.0	0.0	0.0	0.0	0.0	0.0
665.78	715.52	1314.01	1534.74	21.08	0.0	0.0	0.0	0.0	0.0	0.0
665.56	705.58	1413.58	1498.30	45.57	0.0	0.0	0.0	0.0	0.0	0.0
665.43	296.93	958.35	1681.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.35	875.72	1195.05	1589.48	59.14	0.0	0.0	0.0	0.0	0.0	0.0
665.23	263.78	840.90	1731.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
665.05	243.09	2058.06	1251.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.90	264.69	1656.42	1413.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.37	264.95	1715.93	1398.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.82	253.37	1776.40	1384.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.26	237.13	1834.66	1370.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.07	103.48	604.76	1862.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.87	321.00	638.50	1852.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.70	222.90	1891.35	1357.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.58	287.14	2000.74	1316.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.34	218.38	1945.88	1342.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.20	318.64	696.26	1840.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.95	669.65	1308.74	1601.81	4.49	0.0	0.0	0.0	0.0	0.0	0.0
661.85	737.15	1087.08	1691.90	32.26	0.0	0.0	0.0	0.0	0.0	0.0
661.73	279.68	1160.59	1664.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.67	655.20	1478.96	1539.09	4.17	0.0	0.0	0.0	0.0	0.0	0.0
661.59	289.43	1103.49	1689.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.54	229.45	1567.92	1505.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.44	562.43	931.39	1760.77	11.98	0.0	0.0	0.0	0.0	0.0	0.0
661.32	542.03	1271.79	1627.37	31.79	0.0	0.0	0.0	0.0	0.0	0.0
661.25	578.18	895.12	1778.15	3.00	0.0	0.0	0.0	0.0	0.0	0.0
661.17	252.37	2058.06	1317.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.99	248.15	1675.48	1472.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.58	248.51	1732.92	1456.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.14	240.07	1791.26	1441.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.68	228.92	1847.95	1426.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.17	226.22	1903.58	1413.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.58	222.56	1960.12	1400.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.23	315.28	1655.50	1528.32	68.73	0.0	0.0	0.0	0.0	0.0	0.0
657.84	441.27	1313.66	1670.32	2.27	0.0	0.0	0.0	0.0	0.0	0.0
657.76	254.23	1241.58	1700.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.56	1613.06	1432.61	1627.50	20.11	0.0	0.0	0.0	0.0	0.0	0.0
657.47	517.64	1357.22	1659.28	25.51	0.0	0.0	0.0	0.0	0.0	0.0
657.39	267.93	722.42	1912.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.33	811.04	1257.30	1701.37	64.12	0.0	0.0	0.0	0.0	0.0	0.0
657.23	816.04	1143.54	1748.24	43.25	0.0	0.0	0.0	0.0	0.0	0.0
657.15	596.29	920.07	1838.38	3.07	0.0	0.0	0.0	0.0	0.0	0.0
656.97	384.13	673.06	1939.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.92	233.67	1749.67	1512.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.59	226.64	1806.18	1496.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.19	215.48	1861.11	1480.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.69	206.28	1914.89	1468.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.06	191.27	1967.11	1458.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
654.32	200.69	2011.36	1453.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.95	209.94	1360.25	1718.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.89	460.73	1452.71	1682.44	12.52	0.0	0.0	0.0	0.0	0.0	0.0
653.83	206.05	1613.57	1619.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.74	459.02	1455.62	1683.94	19.63	0.0	0.0	0.0	0.0	0.0	0.0
653.59	488.05	1441.93	1691.99	24.92	0.0	0.0	0.0	0.0	0.0	0.0
653.46	296.29	693.65	1991.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.38	834.04	1497.63	1673.31	69.82	0.0	0.0	0.0	0.0	0.0	0.0
653.25	297.79	1099.62	1833.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.14	516.43	1361.97	1731.49	39.17	0.0	0.0	0.0	0.0	0.0	0.0
653.02	1478.64	859.76	1932.98	11.50	0.0	0.0	0.0	0.0	0.0	0.0
652.80	199.43	1875.43	1533.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.58	223.40	1403.02	1701.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.41	175.81	1926.56	1519.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
651.80	148.99	1973.66	1511.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.63	187.93	2012.47	1515.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.18	624.27	1550.76	1706.85	12.69	0.0	0.0	0.0	0.0	0.0	0.0
650.08	610.43	1597.54	1690.27	19.48	0.0	0.0	0.0	0.0	0.0	0.0
649.99	220.53	1295.71	1811.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.91	208.64	1786.05	1618.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.79	200.96	1838.74	1599.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.70	258.90	1244.66	1836.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.59	187.88	1890.47	1582.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.52	218.92	2058.06	1516.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.39	238.29	1952.37	1561.16	1.65	0.0	0.0	0.0	0.0	0.0	0.0
649.29	292.23	1188.05	1866.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
649.15	303.02	1127.77	1892.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.03	567.23	1229.38	1846.05	17.98	0.0	0.0	0.0	0.0	0.0	0.0
648.95	307.36	1002.77	1945.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.90	297.99	940.89	1971.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.78	284.80	881.14	1996.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.56	354.02	794.32	2035.15	6.76	0.0	0.0	0.0	0.0	0.0	0.0
648.19	262.66	775.90	2048.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
647.57	390.93	728.21	2078.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.88	254.09	2005.94	1582.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.75	131.41	1364.64	1839.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.57	199.72	1805.45	1667.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.52	1679.13	1582.13	1756.74	26.66	0.0	0.0	0.0	0.0	0.0	0.0
646.44	575.61	1832.98	1658.69	14.79	0.0	0.0	0.0	0.0	0.0	0.0
645.93	252.67	1279.14	1887.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.64	227.28	2058.06	1583.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.28	298.12	1219.30	1922.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.06	298.80	1156.42	1951.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
644.92	609.12	1060.24	1992.04	3.26	0.0	0.0	0.0	0.0	0.0	0.0
644.86	538.66	936.75	2041.90	2.92	0.0	0.0	0.0	0.0	0.0	0.0
644.55	292.24	976.45	2030.64	25.89	0.0	0.0	0.0	0.0	0.0	0.0
644.41	75.37	1342.60	1888.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.75	377.07	809.96	2111.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.69	145.14	718.41	2148.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.42	171.62	1873.69	1694.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.28	346.42	1870.48	1697.78	4.85	0.0	0.0	0.0	0.0	0.0	0.0
643.16	196.88	1776.44	1737.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.04	574.44	1425.49	1878.44	60.60	0.0	0.0	0.0	0.0	0.0	0.0
642.73	203.51	2011.77	1651.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
642.56	564.28	1518.68	1849.80	14.17	0.0	0.0	0.0	0.0	0.0	0.0
642.36	508.49	1548.40	1841.46	8.25	0.0	0.0	0.0	0.0	0.0	0.0
642.31	360.57	1328.84	1929.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.76	214.34	2058.06	1649.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.71	331.30	1253.37	1969.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.63	133.46	877.36	2120.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.40	303.99	1184.48	2002.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.21	518.50	1034.23	2065.33	9.68	0.0	0.0	0.0	0.0	0.0	0.0
641.02	563.03	1019.18	2074.90	3.31	0.0	0.0	0.0	0.0	0.0	0.0
640.62	132.71	1890.52	1735.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.51	117.45	1932.64	1720.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.38	263.34	1803.71	1773.79	4.77	0.0	0.0	0.0	0.0	0.0	0.0
639.94	145.80	1972.25	1714.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.77	195.60	1800.83	1785.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.66	156.57	789.74	2189.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.23	159.53	2016.43	1709.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.17	536.65	1166.33	1989.67	35.70	0.0	0.0	0.0	0.0	0.0	0.0
638.84	105.43	746.83	2220.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.57	63.38	1938.08	1751.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.52	186.88	781.25	2211.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.41	338.32	1726.88	1838.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.23	96.90	1908.31	1769.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.18	699.08	1611.45	1887.94	18.69	0.0	0.0	0.0	0.0	0.0	0.0
638.00	1060.39	1243.21	2037.05	24.62	0.0	0.0	0.0	0.0	0.0	0.0
637.94	65.52	1837.03	1802.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.85	531.97	1571.19	1909.37	38.86	0.0	0.0	0.0	0.0	0.0	0.0
637.70	285.50	1210.38	2055.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.61	609.74	1076.28	2110.12	6.90	0.0	0.0	0.0	0.0	0.0	0.0
637.55	263.67	1071.89	2113.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.07	184.15	1794.77	1834.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.97	175.13	1973.28	1764.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.63	105.77	2017.62	1753.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.33	120.60	1927.59	1793.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.13	491.54	1264.54	2060.70	53.69	0.0	0.0	0.0	0.0	0.0	0.0
635.19	192.45	879.77	2229.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
634.00	4981.33	1356.10	2060.82	64.14	0.0	1253.77	2101.80	0.332	0.308	0.310
632.92	68.49	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.78	69.69	1464.83	1614.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.34	142.52	1063.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.92	68.99	1497.72	1601.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
631.79	1050.45	1151.59	2179.71	37.23	0.0	0.0	0.0	0.0	0.0	0.0
631.71	177.74	1103.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
630.84	215.71	1157.68	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.94	226.74	1217.02	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.16	242.57	1278.40	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
628.24	255.15	1347.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
627.13	258.15	1417.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
625.27	263.80	1489.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.44	260.69	700.11	1244.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.26	259.91	633.57	1271.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
623.54	526.36	1164.76	1062.46	39.78	0.0	0.0	0.0	0.0	0.0	0.0
623.20	123.15	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.69	248.69	1088.51	1090.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.18	253.61	1025.86	1115.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
621.98	791.57	1119.68	1089.06	40.07	0.0	0.0	0.0	0.0	0.0	0.0
621.65	258.40	962.15	1140.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.53	260.72	1705.31	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.19	265.08	568.54	1296.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
619.13	258.58	1776.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
617.77	256.00	1847.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
616.43	253.14	1918.25	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
615.09	250.62	1988.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.84	276.54	503.94	1322.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.76	249.45	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
611.41	161.02	1442.94	1623.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
606.28	324.82	1464.94	1614.83	8.25	0.0	0.0	0.0	0.0	0.0	0.0
603.65	259.38	2058.06	975.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601.18	162.65	1402.55	1700.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	2342.44	563.21	1662.92	14.44	0.0	549.80	1629.15	0.0	1.4626e+06	1.4655e+06
597.60	163.59	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.67	168.95	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.54	159.15	1425.12	1757.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
594.22	319.62	1398.25	1208.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.85	308.42	1424.53	1274.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.00	1267.50	1973.42	1472.63	12.39	0.0	0.0	0.0	0.0	0.0	0.0
589.21	179.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
588.39	252.21	2058.06	1318.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
587.49	151.36	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.66	239.85	2058.06	1387.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.40	217.59	754.26	2143.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
584.37	230.68	2058.06	1455.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
582.84	525.73	1530.30	1777.17	8.25	0.0	0.0	0.0	0.0	0.0	0.0
581.76	223.18	2058.06	1522.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
580.05	272.30	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
579.14	140.62	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.99	216.75	2058.06	1588.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.76	219.62	781.07	2211.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.51	211.84	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.88	215.04	1469.28	1868.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.06	211.78	2058.06	1653.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
575.53	402.32	1868.22	1857.40	12.68	0.0	0.0	0.0	0.0	0.0	0.0
574.03	212.77	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.55	215.12	1495.07	1933.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.80	2093.01	1218.35	2115.53	35.60	0.0	0.0	0.0	0.0	0.0	0.0
572.64	233.77	948.31	2222.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.55	208.30	2058.06	1718.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.41	231.55	877.39	2250.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
569.33	416.93	1865.24	1858.58	18.66	0.0	0.0	0.0	0.0	0.0	0.0
556.69	74.14	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
556.27	154.14	1066.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.85	178.75	1109.10	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.35	207.56	1160.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.00	1115.12	1413.98	1297.56	13.41	0.0	0.0	0.0	0.0	0.0	0.0
554.95	221.56	1218.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
552.02	272.99	1488.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
550.94	535.50	670.98	1256.29	3.41	0.0	0.0	0.0	0.0	0.0	0.0
550.17	269.20	1561.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
549.40	117.63	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
548.86	264.80	771.44	1216.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.76	266.45	1634.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.64	238.61	1091.40	1089.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.86	245.49	1030.92	1113.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.55	263.69	1707.20	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.06	254.28	968.14	1138.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546.87	381.07	1065.78	1347.21	25.93	0.0	0.0	0.0	0.0	0.0	0.0
546.44	260.37	1779.17	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.52	262.96	571.29	1295.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.38	521.94	1334.57	1051.22	50.64	0.0	0.0	0.0	0.0	0.0	0.0
544.35	250.80	1920.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
543.33	246.16	1989.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
542.32	244.43	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
539.81	259.78	505.18	1322.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
538.16	179.27	1403.05	1701.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
537.08	185.55	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.28	133.62	1871.67	1856.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
532.00	614.25	507.87	1523.60	14.44	0.0	0.0	0.0	0.0	0.0	0.0
529.80	247.65	2058.06	975.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
526.89	185.77	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
525.93	117.02	1910.01	1840.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
523.69	233.75	754.10	2143.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
519.13	605.14	1519.58	1781.43	8.25	0.0	0.0	0.0	0.0	0.0	0.0
518.19	277.59	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
517.85	137.89	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517.22	722.05	1658.19	1622.73	63.85	0.0	0.0	0.0	0.0	0.0	0.0
516.31	229.38	2058.06	1460.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
515.00	675.44	1941.28	1584.23	12.39	0.0	0.0	0.0	0.0	0.0	0.0
514.87	210.65	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
514.81	219.65	2058.06	1528.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.36	213.38	1494.44	1931.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.03	210.94	2058.06	1594.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
511.60	2557.91	1162.97	2137.53	35.60	0.0	0.0	0.0	0.0	0.0	0.0
511.37	238.73	1466.98	1862.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.94	203.29	2058.06	1658.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.18	211.08	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
509.33	988.27	595.15	1743.34	8.97	0.0	0.0	0.0	0.0	0.0	0.0
508.80	439.77	1868.22	1857.40	12.68	0.0	0.0	0.0	0.0	0.0	0.0
507.93	197.57	2058.06	1720.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507.73	170.78	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
505.47	324.85	1399.30	1211.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
504.67	416.19	1863.17	1859.41	18.66	0.0	0.0	0.0	0.0	0.0	0.0
503.22	301.29	1425.36	1277.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
501.00	146.11	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.74	68.76	1875.48	1854.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.46	74.81	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.21	154.94	1066.89	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.95	180.69	1109.50	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.65	209.66	1162.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.42	220.36	1219.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.33	828.39	1427.56	1400.74	13.41	0.0	0.0	0.0	0.0	0.0	0.0
477.82	284.44	1409.85	1718.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
477.65	278.03	1488.13	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.35	273.78	1562.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.11	269.28	710.31	1240.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.67	272.29	642.40	1267.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.60	111.76	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.32	270.51	1636.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.78	262.90	776.93	1214.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.46	267.27	1709.54	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.18	236.10	1036.81	1110.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.02	224.57	1093.76	1088.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.68	263.21	1782.32	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.44	252.45	974.62	1135.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.96	517.52	1379.12	1035.02	47.22	0.0	0.0	0.0	0.0	0.0	0.0
472.61	267.41	574.24	1294.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.25	247.95	1924.23	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.90	363.97	1127.26	1381.90	49.86	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
471.70	117.36	1910.50	1840.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.56	239.49	1991.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
470.88	238.57	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
469.41	202.49	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467.57	257.92	505.29	1322.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
464.00	614.16	508.03	1523.98	14.44	0.0	0.0	0.0	0.0	0.0	0.0
461.81	192.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.99	237.48	754.04	2143.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.27	233.30	2058.06	975.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455.42	543.32	1528.13	1778.03	8.25	0.0	0.0	0.0	0.0	0.0	0.0
455.15	280.92	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
455.05	140.12	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.52	229.10	780.93	2211.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.06	188.06	1471.53	1874.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452.91	201.10	1495.97	1935.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
451.77	207.96	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.69	226.02	875.58	2251.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.54	230.97	945.05	2224.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.40	2099.17	1216.80	2116.15	35.60	0.0	0.0	0.0	0.0	0.0	0.0
450.22	457.64	2058.06	1430.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
449.53	211.15	2058.06	1535.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.57	201.35	2058.06	1600.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.14	245.12	2058.06	1321.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
447.26	394.44	1852.10	1769.68	19.89	0.0	0.0	0.0	0.0	0.0	0.0
445.02	180.27	2058.06	1723.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	1728.18	1923.78	1644.79	18.66	0.0	1963.11	1856.31	0.217	0.368	3.505
424.02	67.10	1913.18	1839.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
418.67	988.27	595.15	1743.34	8.97	0.0	0.0	0.0	0.0	0.0	0.0
417.87	189.84	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
416.73	335.23	1401.97	1218.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
415.61	282.59	1427.01	1281.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414.50	135.88	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.11	92.55	1874.77	1854.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
406.17	380.30	1412.87	1726.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.11	215.93	1052.69	907.06	1.89	0.0	0.0	0.0	0.0	0.0	0.0
404.00	180.24	1104.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.85	222.25	1160.39	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.73	224.25	1220.21	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.67	849.79	1426.74	1407.68	13.41	0.0	0.0	0.0	0.0	0.0	0.0
402.89	280.66	1488.47	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402.24	549.20	1143.36	1071.30	42.43	0.0	0.0	0.0	0.0	0.0	0.0
401.87	274.15	645.40	1266.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.80	100.87	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.71	274.55	1638.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.40	204.78	1099.38	1086.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.34	265.04	782.10	1212.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.26	271.68	1712.43	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.98	229.48	1045.41	1107.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.86	268.03	1786.38	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.49	261.89	1859.44	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.29	269.23	576.08	1293.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.13	505.78	1371.57	1050.99	54.07	0.0	0.0	0.0	0.0	0.0	0.0
399.90	261.30	916.43	1158.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.78	482.28	1460.89	1026.01	50.62	0.0	0.0	0.0	0.0	0.0	0.0
399.44	230.89	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.12	206.65	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
398.40	258.73	506.57	1321.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
396.00	615.86	507.86	1523.57	14.44	0.0	0.0	0.0	0.0	0.0	0.0
395.20	195.36	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
395.15	197.19	1471.86	1874.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
393.60	238.73	754.04	2143.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392.42	220.16	2058.06	975.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
391.71	609.99	1519.23	1781.57	8.25	0.0	0.0	0.0	0.0	0.0	0.0
391.65	423.14	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
391.35	230.36	780.90	2210.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
390.86	202.88	1496.26	1936.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.65	205.39	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.20	2556.25	1161.88	2137.96	35.60	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
388.08	210.70	2058.06	1474.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.93	231.51	2058.06	1403.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.84	201.78	2058.06	1542.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.44	193.66	2058.06	1607.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.21	197.51	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
386.85	422.70	2058.06	1468.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
385.81	161.81	2058.06	1727.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384.00	2018.56	1941.10	1585.50	18.66	0.0	1957.35	1855.12	0.206	0.154	4.707
328.00	1.876e+05	1300.09	1513.79	82.61	0.0	1388.66	1256.09	0.820	0.172	0.438
327.92	289.07	1442.58	1801.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322.58	553.23	1412.62	1725.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.00	1010.16	2058.06	1616.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
255.15	246.38	1998.89	1805.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.00	1693.16	979.01	1884.36	30.01	0.0	0.0	0.0	0.0	0.0	0.0
248.97	270.22	1938.69	1829.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.95	303.04	679.61	1576.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.69	311.70	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
245.99	573.09	1843.55	1867.20	3.16	0.0	0.0	0.0	0.0	0.0	0.0
244.12	315.79	652.46	1508.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.03	292.93	1749.79	1904.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.66	394.73	1062.00	1179.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.61	324.38	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.23	385.55	2058.06	1325.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.64	378.11	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.57	396.87	973.36	2072.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.00	3734.62	1408.22	1664.89	65.90	0.0	1628.78	1789.87	0.104	4.133	2.042
240.39	328.39	1867.36	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.08	343.85	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.77	329.95	1792.24	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.16	331.42	1717.14	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.10	346.46	770.27	1379.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.53	332.68	1642.08	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
237.85	683.01	1196.64	1134.18	36.20	0.0	0.0	0.0	0.0	0.0	0.0
237.60	861.26	1581.16	1207.16	45.31	0.0	0.0	0.0	0.0	0.0	0.0
236.92	333.00	1492.62	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.70	354.16	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.27	363.49	1234.52	1471.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.06	326.99	1419.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234.32	389.38	1181.84	1407.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232.21	354.71	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.35	1154.10	1551.92	1340.08	46.60	0.0	0.0	0.0	0.0	0.0	0.0
230.42	362.27	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.10	325.13	1348.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.12	351.25	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228.78	435.41	1124.11	1338.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227.95	1347.88	1400.23	1213.78	10.78	0.0	0.0	0.0	0.0	0.0	0.0
225.10	380.48	1412.34	1725.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.00	5852.58	1409.33	1251.38	51.53	0.0	1431.17	1112.32	0.763	0.078	0.483
190.00	1532.51	2058.06	1611.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.00	661.95	992.27	1892.18	30.01	0.0	0.0	0.0	0.0	0.0	0.0
172.44	290.23	1997.53	1806.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.26	311.28	679.37	1576.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.91	318.15	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.77	291.25	1936.29	1830.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.90	296.60	1873.73	1855.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.92	392.15	2058.06	1323.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.84	321.45	652.11	1507.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.52	329.65	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.32	296.26	1810.61	1880.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.34	296.90	1748.47	1904.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.00	5136.76	1348.90	1685.30	65.90	0.0	1635.23	1789.26	0.082	6.756	2.167
153.16	324.77	1867.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.74	341.23	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.31	324.67	1793.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.47	665.48	1232.60	1149.30	47.41	0.0	0.0	0.0	0.0	0.0	0.0
150.61	323.97	1643.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.27	835.24	1581.16	1207.16	45.31	0.0	0.0	0.0	0.0	0.0	0.0
149.91	340.39	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
149.71	322.74	1569.48	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.61	319.80	1495.42	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.69	338.17	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.42	352.53	1233.37	1469.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.34	313.66	1422.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.71	370.39	1179.71	1405.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.99	814.27	1584.89	1202.08	46.60	0.0	0.0	0.0	0.0	0.0	0.0
143.89	334.03	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.73	329.89	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.29	302.20	1349.95	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.46	385.49	1122.30	1336.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.15	316.29	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.26	1207.38	1400.13	1213.54	10.76	0.0	0.0	0.0	0.0	0.0	0.0
137.48	364.32	1411.20	1722.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.67	4043.32	1385.64	1263.08	51.53	0.0	0.0	0.0	0.0	0.0	0.0
100.32	198.40	1122.05	2013.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.00	2193.28	963.68	1871.31	30.01	0.0	0.0	0.0	0.0	0.0	0.0
84.98	688.93	2058.06	1748.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.92	387.14	2058.06	1648.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.71	426.86	2058.06	1568.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.91	434.43	2058.06	1486.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.93	431.34	2058.06	1403.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.40	348.25	679.70	1576.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.10	355.30	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.18	320.67	1996.61	1806.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.13	308.74	1934.84	1830.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.22	342.62	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.00	335.06	652.21	1507.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.38	304.09	1872.63	1855.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.00	300.27	1809.96	1880.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.80	381.10	2058.06	1317.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.74	399.84	1062.00	1196.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68.48	296.66	1747.36	1905.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.00	4051.24	1407.34	1672.26	65.90	0.0	1635.23	1789.26	0.082	5.377	2.439
66.48	410.65	973.46	2072.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.42	321.33	1868.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.36	391.02	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.14	338.87	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.84	319.74	1794.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.26	654.35	1231.86	1149.99	47.48	0.0	0.0	0.0	0.0	0.0	0.0
64.76	823.25	1581.15	1207.16	45.31	0.0	0.0	0.0	0.0	0.0	0.0
64.68	316.24	1645.65	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.28	333.16	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.08	313.93	1571.57	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.39	310.71	1497.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.27	336.37	1233.86	1470.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.12	358.31	1181.26	1407.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.01	328.56	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.42	306.01	1424.19	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.97	799.50	1583.13	1201.28	46.60	0.0	0.0	0.0	0.0	0.0	0.0
61.11	320.45	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.81	297.04	1351.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.75	318.21	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.59	380.86	1123.06	1337.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.11	304.80	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59.74	1163.89	1400.22	1213.76	10.75	0.0	0.0	0.0	0.0	0.0	0.0
58.33	3957.57	1387.69	1261.01	51.53	0.0	0.0	0.0	0.0	0.0	0.0
53.98	332.16	1407.54	1713.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	4.607e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.715	0.149	0.761	1827.55	0.4	3.751e+05	81.4	671.28	0.1	0.0	0.0
2	7.147	0.140	0.749	3.542e+05	76.9	239.95	5.21e-02	2862.21	0.6	0.0	0.0
3	9.449	0.106	0.644	4723.63	1.0	651.81	0.1	3.757e+04	8.2	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
4	9.743	0.103	0.634	3.343e+04	7.3	4988.93	1.1	6.200e+04	13.5	0.0	0.0
5	14.147	0.071	0.536	1.646e+04	3.6	1600.22	0.3	2.355e+05	51.1	0.0	0.0
6	15.043	0.066	0.523	1.866e+04	4.1	3.354e+04	7.3	2.456e+04	5.3	0.0	0.0
7	16.722	0.060	0.503	1.792e+04	3.9	1.424e+04	3.1	4.018e+04	8.7	0.0	0.0
8	17.144	0.058	0.498	6385.46	1.4	8655.07	1.9	1.389e+04	3.0	0.0	0.0
9	19.363	0.052	0.477	941.00	0.2	1.634e+04	3.5	1999.74	0.4	0.0	0.0
10	20.756	0.048	0.467	1701.15	0.4	2514.60	0.5	8552.06	1.9	0.0	0.0
11	23.993	0.042	0.447	2843.84	0.6	1059.42	0.2	2.458e+04	5.3	0.0	0.0
12	27.308	0.037	0.431	384.04	8.34e-02	714.73	0.2	1035.75	0.2	0.0	0.0
13	37.982	0.026	0.400	564.41	0.1	638.46	0.1	4289.31	0.9	0.0	0.0
14	39.009	0.026	0.397	114.27	2.48e-02	264.74	5.75e-02	2395.15	0.5	0.0	0.0
15	46.377	0.022	0.385	395.37	8.58e-02	57.28	1.24e-02	213.28	4.63e-02	0.0	0.0
Risulta				4.605e+05		4.606e+05		4.603e+05			
In percentuale				99.96		99.97		99.92			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.131
			ordinata spettro (tratto Tb-Tc) = 0.761 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.148 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 15
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
790.00	897.50	1497.15	1698.89	-11.48	0.0	1496.46	1696.46	1.152	0.006	0.023
745.85	520.56	1464.30	1615.09	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
744.63	132.33	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.85	134.16	1402.73	1700.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.20	519.60	1517.03	1749.35	-9.32	0.0	0.0	0.0	0.0	0.0	0.0
741.31	217.84	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
740.99	109.93	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
709.15	30.09	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
708.45	60.87	1057.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
707.75	140.79	1087.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
706.28	203.10	1151.07	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.80	187.17	1214.73	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.17	95.25	1108.43	959.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.80	160.93	1152.74	948.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.35	381.64	1259.61	914.38	-3.61	0.0	0.0	0.0	0.0	0.0	0.0
701.67	763.76	1427.69	1390.04	-9.87	0.0	0.0	0.0	0.0	0.0	0.0
700.91	157.37	1249.36	959.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.83	266.76	1198.79	981.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.58	139.99	1129.45	1012.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.02	303.81	1420.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.35	199.05	1301.63	965.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.26	132.10	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.13	150.58	1349.84	950.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.49	129.53	1269.99	992.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.37	304.92	1491.03	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.26	91.82	1239.68	1008.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.05	133.29	1403.15	1701.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.00	3688.11	762.27	1220.03	-37.23	0.0	0.0	0.0	0.0	0.0	0.0
696.81	134.56	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.73	288.08	1561.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
696.37	235.57	1205.81	1054.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.09	463.86	1400.35	982.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.75	136.14	1425.26	1757.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.39	419.61	1296.93	1035.07	-3.73	0.0	0.0	0.0	0.0	0.0	0.0
695.25	156.23	1288.42	1040.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.08	276.34	1632.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.47	379.35	1487.82	974.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.36	255.29	1525.77	1778.97	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
693.67	499.45	877.79	1230.98	-3.16	0.0	0.0	0.0	0.0	0.0	0.0
693.58	499.13	876.93	1232.60	-9.47	0.0	0.0	0.0	0.0	0.0	0.0
693.49	250.15	721.35	1296.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.43	269.22	1703.67	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.25	261.21	1036.77	1175.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.97	589.49	1163.94	1129.15	-45.04	0.0	0.0	0.0	0.0	0.0	0.0
692.62	296.87	1176.16	1130.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.19	701.10	1046.28	1189.49	-39.47	0.0	0.0	0.0	0.0	0.0	0.0
691.78	453.85	1562.43	991.61	-25.35	0.0	0.0	0.0	0.0	0.0	0.0
691.55	522.03	1590.70	1311.39	-7.45	0.0	0.0	0.0	0.0	0.0	0.0
691.49	199.01	1308.75	1097.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.43	254.06	1348.10	1082.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.28	374.30	1420.14	1056.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.08	320.46	613.76	1380.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.69	98.30	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.56	540.69	544.42	1416.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.38	848.21	1182.75	1166.23	-28.42	0.0	0.0	0.0	0.0	0.0	0.0
690.33	527.47	835.06	1305.49	-3.12	0.0	0.0	0.0	0.0	0.0	0.0
690.27	242.92	742.53	1342.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.14	459.50	1502.59	1043.04	-40.04	0.0	0.0	0.0	0.0	0.0	0.0
690.05	461.52	1306.43	1122.79	-50.93	0.0	0.0	0.0	0.0	0.0	0.0
689.84	612.77	480.39	1454.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.78	119.67	1087.82	1214.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.43	143.48	655.70	1391.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.11	324.72	1570.74	1033.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.49	541.22	1848.35	933.79	-6.98	0.0	0.0	0.0	0.0	0.0	0.0
688.24	424.69	968.13	1287.97	-29.42	0.0	0.0	0.0	0.0	0.0	0.0
687.94	214.49	1245.83	1182.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.83	301.69	1642.31	1027.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.73	258.46	1150.40	1224.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.65	207.16	1288.75	1170.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.46	344.51	1348.69	1150.22	-2.00	0.0	0.0	0.0	0.0	0.0	0.0
687.36	213.48	1378.79	1139.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.31	80.80	462.69	1504.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.15	320.43	1436.74	1120.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.99	551.44	1358.16	1154.77	-58.64	0.0	0.0	0.0	0.0	0.0	0.0
686.84	310.77	1987.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.71	481.96	1032.75	1288.51	-2.71	0.0	0.0	0.0	0.0	0.0	0.0
686.65	482.42	849.59	1362.41	-11.80	0.0	0.0	0.0	0.0	0.0	0.0
686.56	570.14	1294.49	1187.09	-41.16	0.0	0.0	0.0	0.0	0.0	0.0
686.47	552.90	798.48	1385.55	-2.97	0.0	0.0	0.0	0.0	0.0	0.0
686.34	333.92	1508.16	1105.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.27	264.31	1779.78	1016.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.19	534.44	1774.46	1019.28	-23.89	0.0	0.0	0.0	0.0	0.0	0.0
685.09	260.27	1912.47	966.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.73	449.41	651.04	1473.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.33	505.36	580.40	1508.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.11	299.07	1650.18	1087.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.01	238.12	1846.37	1011.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.94	607.95	514.95	1541.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.85	234.34	1227.54	1259.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.61	214.76	1270.09	1247.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.51	243.88	1180.81	1284.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.36	215.75	1313.04	1234.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.16	437.53	1236.11	1268.59	-11.06	0.0	0.0	0.0	0.0	0.0	0.0
682.97	1025.40	1271.44	1257.70	-49.64	0.0	0.0	0.0	0.0	0.0	0.0
682.92	254.71	1084.64	1332.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.70	603.36	1262.49	1265.32	-21.37	0.0	0.0	0.0	0.0	0.0	0.0
682.58	290.92	972.70	1382.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.45	1266.16	1323.58	1245.84	-74.61	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
682.37	309.82	851.72	1434.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.16	325.65	1523.68	1171.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.77	267.45	1784.17	1074.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.27	313.70	1592.25	1159.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.07	430.85	2028.56	989.33	-5.52	0.0	0.0	0.0	0.0	0.0	0.0
680.52	245.14	1846.92	1070.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
680.26	299.69	1660.29	1149.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.47	224.04	1253.23	1324.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.28	448.62	1532.15	1217.06	-34.70	0.0	0.0	0.0	0.0	0.0	0.0
679.23	500.91	1541.38	1214.37	-21.56	0.0	0.0	0.0	0.0	0.0	0.0
679.05	256.78	1162.15	1367.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.98	218.44	1338.66	1299.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.80	273.01	1109.85	1392.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.73	296.07	1382.11	1285.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.59	285.02	1054.97	1418.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.48	320.48	1424.00	1273.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.40	297.14	997.56	1444.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.34	499.70	1652.54	1185.44	-23.80	0.0	0.0	0.0	0.0	0.0	0.0
678.23	308.84	938.50	1470.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.09	592.10	1291.42	1332.81	-45.70	0.0	0.0	0.0	0.0	0.0	0.0
677.99	856.31	736.12	1554.98	-6.53	0.0	0.0	0.0	0.0	0.0	0.0
677.93	1105.16	969.25	1463.97	-69.28	0.0	0.0	0.0	0.0	0.0	0.0
677.86	309.54	1542.04	1237.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.61	82.62	519.52	1647.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.29	588.88	553.93	1639.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.17	305.52	1606.63	1223.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.94	531.48	1963.67	1085.32	-10.27	0.0	0.0	0.0	0.0	0.0	0.0
676.30	296.33	1672.41	1212.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.84	221.25	1908.61	1126.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.33	282.71	1737.29	1203.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.09	221.62	1278.92	1389.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.94	241.06	1235.31	1409.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.85	420.63	1634.68	1252.11	-32.04	0.0	0.0	0.0	0.0	0.0	0.0
674.76	260.83	1187.57	1431.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.56	494.83	1236.34	1414.96	-11.43	0.0	0.0	0.0	0.0	0.0	0.0
674.36	850.36	1419.62	1346.18	-35.96	0.0	0.0	0.0	0.0	0.0	0.0
674.17	299.09	1023.69	1506.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.99	724.59	1411.07	1355.83	-52.18	0.0	0.0	0.0	0.0	0.0	0.0
673.94	317.42	1503.21	1319.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.75	317.91	904.13	1560.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.65	289.35	1560.21	1302.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.49	328.29	842.60	1589.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.27	241.80	1860.56	1189.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.06	294.90	1622.14	1287.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.98	617.17	1317.20	1410.07	-63.83	0.0	0.0	0.0	0.0	0.0	0.0
672.77	126.78	547.93	1719.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.30	290.27	1685.98	1275.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.24	214.30	1915.33	1185.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.96	459.91	645.58	1694.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.84	390.76	585.92	1720.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.51	502.89	719.34	1672.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.44	276.24	1749.57	1264.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.19	197.01	1965.77	1183.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.71	220.22	1304.61	1453.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.59	237.82	1261.57	1472.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.51	255.54	1811.53	1255.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.46	470.79	1274.12	1470.09	-6.63	0.0	0.0	0.0	0.0	0.0	0.0
670.30	275.52	1162.81	1517.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.24	213.76	1389.46	1428.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.12	495.76	1484.79	1392.29	-45.13	0.0	0.0	0.0	0.0	0.0	0.0
670.05	193.72	1432.17	1414.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.94	296.65	1050.49	1567.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.88	219.76	1474.40	1400.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.74	581.59	1246.82	1493.59	-26.67	0.0	0.0	0.0	0.0	0.0	0.0
669.55	527.78	1330.60	1463.08	-46.90	0.0	0.0	0.0	0.0	0.0	0.0
669.42	271.80	1580.13	1366.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.34	290.99	872.34	1648.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.03	499.98	1428.36	1433.61	-62.08	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
668.95	281.03	1638.12	1351.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.79	188.00	1920.83	1241.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.59	155.33	772.48	1701.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.29	280.50	1700.38	1338.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.92	125.20	576.35	1790.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.78	161.60	1968.60	1240.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.58	265.38	1762.35	1325.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.86	244.17	1822.31	1314.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.72	366.20	672.38	1773.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.38	312.38	617.91	1800.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.33	725.32	1273.64	1540.65	-63.90	0.0	0.0	0.0	0.0	0.0	0.0
666.26	232.88	1287.43	1536.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.16	464.62	1300.37	1533.43	-6.57	0.0	0.0	0.0	0.0	0.0	0.0
666.04	485.29	1492.58	1458.62	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
665.90	494.97	1253.08	1556.28	-14.02	0.0	0.0	0.0	0.0	0.0	0.0
665.78	715.52	1314.01	1534.74	-21.08	0.0	0.0	0.0	0.0	0.0	0.0
665.56	705.58	1413.58	1498.30	-45.57	0.0	0.0	0.0	0.0	0.0	0.0
665.43	296.93	958.35	1681.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.35	875.72	1195.05	1589.48	-59.14	0.0	0.0	0.0	0.0	0.0	0.0
665.23	263.78	840.90	1731.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.05	243.09	2058.06	1251.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.90	264.69	1656.42	1413.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.37	264.95	1715.93	1398.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.82	253.37	1776.40	1384.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.26	237.13	1834.66	1370.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.07	103.48	604.76	1862.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.87	321.00	638.50	1852.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.70	222.90	1891.35	1357.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.58	287.14	2000.74	1316.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.34	218.38	1945.88	1342.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.20	318.64	696.26	1840.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.95	669.65	1308.74	1601.81	-4.49	0.0	0.0	0.0	0.0	0.0	0.0
661.85	737.15	1087.08	1691.90	-32.26	0.0	0.0	0.0	0.0	0.0	0.0
661.73	279.68	1160.59	1664.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.67	655.20	1478.96	1539.09	-4.17	0.0	0.0	0.0	0.0	0.0	0.0
661.59	289.43	1103.49	1689.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.54	229.45	1567.92	1505.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.44	562.43	931.39	1760.77	-11.98	0.0	0.0	0.0	0.0	0.0	0.0
661.32	542.03	1271.79	1627.37	-31.79	0.0	0.0	0.0	0.0	0.0	0.0
661.25	578.18	895.12	1778.15	-3.00	0.0	0.0	0.0	0.0	0.0	0.0
661.17	252.37	2058.06	1317.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.99	248.15	1675.48	1472.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.58	248.51	1732.92	1456.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.14	240.07	1791.26	1441.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.68	228.92	1847.95	1426.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.17	226.22	1903.58	1413.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.58	222.56	1960.12	1400.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.23	315.28	1655.50	1528.32	-68.73	0.0	0.0	0.0	0.0	0.0	0.0
657.84	441.27	1313.66	1670.32	-2.27	0.0	0.0	0.0	0.0	0.0	0.0
657.76	254.23	1241.58	1700.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.56	1613.06	1432.61	1627.50	-20.11	0.0	0.0	0.0	0.0	0.0	0.0
657.47	517.64	1357.22	1659.28	-25.51	0.0	0.0	0.0	0.0	0.0	0.0
657.39	267.93	722.42	1912.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.33	811.04	1257.30	1701.37	-64.12	0.0	0.0	0.0	0.0	0.0	0.0
657.23	816.04	1143.54	1748.24	-43.25	0.0	0.0	0.0	0.0	0.0	0.0
657.15	596.29	920.07	1838.38	-3.07	0.0	0.0	0.0	0.0	0.0	0.0
656.97	384.13	673.06	1939.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.92	233.67	1749.67	1512.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.59	226.64	1806.18	1496.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.19	215.48	1861.11	1480.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.69	206.28	1914.89	1468.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.06	191.27	1967.11	1458.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
654.32	200.69	2011.36	1453.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.95	209.94	1360.25	1718.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.89	460.73	1452.71	1682.44	-12.52	0.0	0.0	0.0	0.0	0.0	0.0
653.83	206.05	1613.57	1619.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.74	459.02	1455.62	1683.94	-19.63	0.0	0.0	0.0	0.0	0.0	0.0
653.59	488.05	1441.93	1691.99	-24.92	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
653.46	296.29	693.65	1991.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.38	834.04	1497.63	1673.31	-69.82	0.0	0.0	0.0	0.0	0.0	0.0
653.25	297.79	1099.62	1833.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.14	516.43	1361.97	1731.49	-39.17	0.0	0.0	0.0	0.0	0.0	0.0
653.02	1478.64	859.76	1932.98	-11.50	0.0	0.0	0.0	0.0	0.0	0.0
652.80	199.43	1875.43	1533.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.58	223.40	1403.02	1701.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.41	175.81	1926.56	1519.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
651.80	148.99	1973.66	1511.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.63	187.93	2012.47	1515.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.18	624.27	1550.76	1706.85	-12.69	0.0	0.0	0.0	0.0	0.0	0.0
650.08	610.43	1597.54	1690.27	-19.48	0.0	0.0	0.0	0.0	0.0	0.0
649.99	220.53	1295.71	1811.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.91	208.64	1786.05	1618.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.79	200.96	1838.74	1599.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.70	258.90	1244.66	1836.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.59	187.88	1890.47	1582.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.52	218.92	2058.06	1516.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.39	238.29	1952.37	1561.16	-1.65	0.0	0.0	0.0	0.0	0.0	0.0
649.29	292.23	1188.05	1866.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.15	303.02	1127.77	1892.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.03	567.23	1229.38	1846.05	-17.98	0.0	0.0	0.0	0.0	0.0	0.0
648.95	307.36	1002.77	1945.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.90	297.99	940.89	1971.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.78	284.80	881.14	1996.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.56	354.02	794.32	2035.15	-6.76	0.0	0.0	0.0	0.0	0.0	0.0
648.19	262.66	775.90	2048.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
647.57	390.93	728.21	2078.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.88	254.09	2005.94	1582.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.75	131.41	1364.64	1839.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.57	199.72	1805.45	1667.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.52	1679.13	1582.13	1756.74	-26.66	0.0	0.0	0.0	0.0	0.0	0.0
646.44	575.61	1832.98	1658.69	-14.79	0.0	0.0	0.0	0.0	0.0	0.0
645.93	252.67	1279.14	1887.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.64	227.28	2058.06	1583.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.28	298.12	1219.30	1922.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.06	298.80	1156.42	1951.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
644.92	609.12	1060.24	1992.04	-3.26	0.0	0.0	0.0	0.0	0.0	0.0
644.86	538.66	936.75	2041.90	-2.92	0.0	0.0	0.0	0.0	0.0	0.0
644.55	292.24	976.45	2030.64	-25.89	0.0	0.0	0.0	0.0	0.0	0.0
644.41	75.37	1342.60	1888.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.75	377.07	809.96	2111.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.69	145.14	718.41	2148.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.42	171.62	1873.69	1694.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.28	346.42	1870.48	1697.78	-4.85	0.0	0.0	0.0	0.0	0.0	0.0
643.16	196.88	1776.44	1737.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.04	574.44	1425.49	1878.44	-60.60	0.0	0.0	0.0	0.0	0.0	0.0
642.73	203.51	2011.77	1651.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
642.56	564.28	1518.68	1849.80	-14.17	0.0	0.0	0.0	0.0	0.0	0.0
642.36	508.49	1548.40	1841.46	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
642.31	360.57	1328.84	1929.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.76	214.34	2058.06	1649.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.71	331.30	1253.37	1969.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.63	133.46	877.36	2120.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.40	303.99	1184.48	2002.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.21	518.50	1034.23	2065.33	-9.68	0.0	0.0	0.0	0.0	0.0	0.0
641.02	563.03	1019.18	2074.90	-3.31	0.0	0.0	0.0	0.0	0.0	0.0
640.62	132.71	1890.52	1735.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.51	117.45	1932.64	1720.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.38	263.34	1803.71	1773.79	-4.77	0.0	0.0	0.0	0.0	0.0	0.0
639.94	145.80	1972.25	1714.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.77	195.60	1800.83	1785.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.66	156.57	789.74	2189.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.23	159.53	2016.43	1709.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.17	536.65	1166.33	1989.67	-35.70	0.0	0.0	0.0	0.0	0.0	0.0
638.84	105.43	746.83	2220.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.57	63.38	1938.08	1751.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.52	186.88	781.25	2211.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
638.41	338.32	1726.88	1838.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.23	96.90	1908.31	1769.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.18	699.08	1611.45	1887.94	-18.69	0.0	0.0	0.0	0.0	0.0	0.0
638.00	1060.39	1243.21	2037.05	-24.62	0.0	0.0	0.0	0.0	0.0	0.0
637.94	65.52	1837.03	1802.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.85	531.97	1571.19	1909.37	-38.86	0.0	0.0	0.0	0.0	0.0	0.0
637.70	285.50	1210.38	2055.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.61	609.74	1076.28	2110.12	-6.90	0.0	0.0	0.0	0.0	0.0	0.0
637.55	263.67	1071.89	2113.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.07	184.15	1794.77	1834.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.97	175.13	1973.28	1764.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.63	105.77	2017.62	1753.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.33	120.60	1927.59	1793.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.13	491.54	1264.54	2060.70	-53.69	0.0	0.0	0.0	0.0	0.0	0.0
635.19	192.45	879.77	2229.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
634.00	4981.33	1356.10	2060.82	-64.14	0.0	1253.77	2101.80	0.332	0.308	0.310
632.92	68.49	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.78	69.69	1464.83	1614.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.34	142.52	1063.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.92	68.99	1497.72	1601.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.79	1050.45	1151.59	2179.71	-37.23	0.0	0.0	0.0	0.0	0.0	0.0
631.71	177.74	1103.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
630.84	215.71	1157.68	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.94	226.74	1217.02	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.16	242.57	1278.40	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
628.24	255.15	1347.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
627.13	258.15	1417.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
625.27	263.80	1489.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.44	260.69	700.11	1244.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.26	259.91	633.57	1271.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
623.54	526.36	1164.76	1062.46	-39.78	0.0	0.0	0.0	0.0	0.0	0.0
623.20	123.15	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.69	248.69	1088.51	1090.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.18	253.61	1025.86	1115.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
621.98	791.57	1119.68	1089.06	-40.07	0.0	0.0	0.0	0.0	0.0	0.0
621.65	258.40	962.15	1140.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.53	260.72	1705.31	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.19	265.08	568.54	1296.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
619.13	258.58	1776.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
617.77	256.00	1847.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
616.43	253.14	1918.25	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
615.09	250.62	1988.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.84	276.54	503.94	1322.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.76	249.45	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
611.41	161.02	1442.94	1623.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
606.28	324.82	1464.94	1614.83	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
603.65	259.38	2058.06	975.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601.18	162.65	1402.55	1700.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	2342.44	563.21	1662.92	-14.44	0.0	549.80	1629.15	0.0	1.4626e+06	1.4655e+06
597.60	163.59	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.67	168.95	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.54	159.15	1425.12	1757.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
594.22	319.62	1398.25	1208.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.85	308.42	1424.53	1274.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.00	1267.50	1973.42	1472.63	-12.39	0.0	0.0	0.0	0.0	0.0	0.0
589.21	179.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
588.39	252.21	2058.06	1318.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
587.49	151.36	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.66	239.85	2058.06	1387.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.40	217.59	754.26	2143.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
584.37	230.68	2058.06	1455.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
582.84	525.73	1530.30	1777.17	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
581.76	223.18	2058.06	1522.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
580.05	272.30	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
579.14	140.62	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.99	216.75	2058.06	1588.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.76	219.62	781.07	2211.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.51	211.84	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
576.88	215.04	1469.28	1868.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.06	211.78	2058.06	1653.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
575.53	402.32	1868.22	1857.40	-12.68	0.0	0.0	0.0	0.0	0.0	0.0
574.03	212.77	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.55	215.12	1495.07	1933.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.80	2093.01	1218.35	2115.53	-35.60	0.0	0.0	0.0	0.0	0.0	0.0
572.64	233.77	948.31	2222.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.55	208.30	2058.06	1718.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.41	231.55	877.39	2250.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
569.33	416.93	1865.24	1858.58	-18.66	0.0	0.0	0.0	0.0	0.0	0.0
556.69	74.14	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
556.27	154.14	1066.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.85	178.75	1109.10	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.35	207.56	1160.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.00	1115.12	1413.98	1297.56	-13.41	0.0	0.0	0.0	0.0	0.0	0.0
554.95	221.56	1218.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
552.02	272.99	1488.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
550.94	535.50	670.98	1256.29	-3.41	0.0	0.0	0.0	0.0	0.0	0.0
550.17	269.20	1561.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
549.40	117.63	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.86	264.80	771.44	1216.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.76	266.45	1634.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.64	238.61	1091.40	1089.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.86	245.49	1030.92	1113.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.55	263.69	1707.20	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.06	254.28	968.14	1138.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546.87	381.07	1065.78	1347.21	-25.93	0.0	0.0	0.0	0.0	0.0	0.0
546.44	260.37	1779.17	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.52	262.96	571.29	1295.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.38	521.94	1334.57	1051.22	-50.64	0.0	0.0	0.0	0.0	0.0	0.0
544.35	250.80	1920.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
543.33	246.16	1989.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
542.32	244.43	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
539.81	259.78	505.18	1322.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
538.16	179.27	1403.05	1701.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
537.08	185.55	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.28	133.62	1871.67	1856.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
532.00	614.25	507.87	1523.60	-14.44	0.0	0.0	0.0	0.0	0.0	0.0
529.80	247.65	2058.06	975.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
526.89	185.77	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
525.93	117.02	1910.01	1840.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
523.69	233.75	754.10	2143.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
519.13	605.14	1519.58	1781.43	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
518.19	277.59	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
517.85	137.89	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517.22	722.05	1658.19	1622.73	-63.85	0.0	0.0	0.0	0.0	0.0	0.0
516.31	229.38	2058.06	1460.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
515.00	675.44	1941.28	1584.23	-12.39	0.0	0.0	0.0	0.0	0.0	0.0
514.87	210.65	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
514.81	219.65	2058.06	1528.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.36	213.38	1494.44	1931.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.03	210.94	2058.06	1594.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
511.60	2557.91	1162.97	2137.53	-35.60	0.0	0.0	0.0	0.0	0.0	0.0
511.37	238.73	1466.98	1862.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.94	203.29	2058.06	1658.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.18	211.08	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
509.33	988.27	595.15	1743.34	-8.97	0.0	0.0	0.0	0.0	0.0	0.0
508.80	439.77	1868.22	1857.40	-12.68	0.0	0.0	0.0	0.0	0.0	0.0
507.93	197.57	2058.06	1720.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507.73	170.78	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
505.47	324.85	1399.30	1211.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
504.67	416.19	1863.17	1859.41	-18.66	0.0	0.0	0.0	0.0	0.0	0.0
503.22	301.29	1425.36	1277.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
501.00	146.11	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.74	68.76	1875.48	1854.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.46	74.81	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.21	154.94	1066.89	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.95	180.69	1109.50	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
479.65	209.66	1162.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.42	220.36	1219.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.33	828.39	1427.56	1400.74	-13.41	0.0	0.0	0.0	0.0	0.0	0.0
477.82	284.44	1409.85	1718.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
477.65	278.03	1488.13	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.35	273.78	1562.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.11	269.28	710.31	1240.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.67	272.29	642.40	1267.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.60	111.76	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.32	270.51	1636.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.78	262.90	776.93	1214.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.46	267.27	1709.54	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.18	236.10	1036.81	1110.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.02	224.57	1093.76	1088.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.68	263.21	1782.32	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.44	252.45	974.62	1135.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.96	517.52	1379.12	1035.02	-47.22	0.0	0.0	0.0	0.0	0.0	0.0
472.61	267.41	574.24	1294.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.25	247.95	1924.23	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.90	363.97	1127.26	1381.90	-49.86	0.0	0.0	0.0	0.0	0.0	0.0
471.70	117.36	1910.50	1840.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.56	239.49	1991.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
470.88	238.57	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
469.41	202.49	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467.57	257.92	505.29	1322.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
464.00	614.16	508.03	1523.98	-14.44	0.0	0.0	0.0	0.0	0.0	0.0
461.81	192.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.99	237.48	754.04	2143.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.27	233.30	2058.06	975.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455.42	543.32	1528.13	1778.03	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
455.15	280.92	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
455.05	140.12	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.52	229.10	780.93	2211.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.06	188.06	1471.53	1874.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452.91	201.10	1495.97	1935.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
451.77	207.96	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.69	226.02	875.58	2251.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.54	230.97	945.05	2224.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.40	2099.17	1216.80	2116.15	-35.60	0.0	0.0	0.0	0.0	0.0	0.0
450.22	457.64	2058.06	1430.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
449.53	211.15	2058.06	1535.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.57	201.35	2058.06	1600.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.14	245.12	2058.06	1321.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
447.26	394.44	1852.10	1769.68	-19.89	0.0	0.0	0.0	0.0	0.0	0.0
445.02	180.27	2058.06	1723.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	1728.18	1923.78	1644.79	-18.66	0.0	1963.11	1856.31	0.217	0.368	3.505
424.02	67.10	1913.18	1839.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
418.67	988.27	595.15	1743.34	-8.97	0.0	0.0	0.0	0.0	0.0	0.0
417.87	189.84	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
416.73	335.23	1401.97	1218.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
415.61	282.59	1427.01	1281.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414.50	135.88	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.11	92.55	1874.77	1854.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
406.17	380.30	1412.87	1726.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.11	215.93	1052.69	907.06	-1.89	0.0	0.0	0.0	0.0	0.0	0.0
404.00	180.24	1104.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.85	222.25	1160.39	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.73	224.25	1220.21	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.67	849.79	1426.74	1407.68	-13.41	0.0	0.0	0.0	0.0	0.0	0.0
402.89	280.66	1488.47	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402.24	549.20	1143.36	1071.30	-42.43	0.0	0.0	0.0	0.0	0.0	0.0
401.87	274.15	645.40	1266.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.80	100.87	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.71	274.55	1638.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.40	204.78	1099.38	1086.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.34	265.04	782.10	1212.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.26	271.68	1712.43	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.98	229.48	1045.41	1107.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
400.86	268.03	1786.38	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.49	261.89	1859.44	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.29	269.23	576.08	1293.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.13	505.78	1371.57	1050.99	-54.07	0.0	0.0	0.0	0.0	0.0	0.0
399.90	261.30	916.43	1158.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.78	482.28	1460.89	1026.01	-50.62	0.0	0.0	0.0	0.0	0.0	0.0
399.44	230.89	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.12	206.65	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
398.40	258.73	506.57	1321.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
396.00	615.86	507.86	1523.57	-14.44	0.0	0.0	0.0	0.0	0.0	0.0
395.20	195.36	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
395.15	197.19	1471.86	1874.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
393.60	238.73	754.02	2143.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392.42	220.16	2058.06	975.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
391.71	609.99	1519.23	1781.57	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
391.65	423.14	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
391.35	230.36	780.90	2210.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
390.86	202.88	1496.26	1936.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.65	205.39	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.20	2556.25	1161.88	2137.96	-35.60	0.0	0.0	0.0	0.0	0.0	0.0
388.08	210.70	2058.06	1474.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.93	231.51	2058.06	1403.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.84	201.78	2058.06	1542.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.44	193.66	2058.06	1607.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.21	197.51	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
386.85	422.70	2058.06	1468.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
385.81	161.81	2058.06	1727.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384.00	2018.56	1941.10	1585.50	-18.66	0.0	1957.35	1855.12	0.206	0.154	4.707
328.00	1.876e+05	1300.09	1513.79	-82.61	0.0	1388.66	1256.09	0.820	0.172	0.438
327.92	289.07	1442.58	1801.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322.58	553.23	1412.62	1725.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.00	1010.16	2058.06	1616.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
255.15	246.38	1998.89	1805.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.00	1693.16	979.01	1884.36	-30.01	0.0	0.0	0.0	0.0	0.0	0.0
248.97	270.22	1938.69	1829.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.95	303.04	679.61	1576.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.69	311.70	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
245.99	573.09	1843.55	1867.20	-3.16	0.0	0.0	0.0	0.0	0.0	0.0
244.12	315.79	652.46	1508.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.03	292.93	1749.79	1904.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.66	394.73	1062.00	1179.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.61	324.38	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.23	385.55	2058.06	1325.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.64	378.11	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.57	396.87	973.36	2072.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.00	3734.62	1408.22	1664.89	-65.90	0.0	1628.78	1789.87	0.104	4.133	2.042
240.39	328.39	1867.36	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.08	343.85	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.77	329.95	1792.24	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.16	331.42	1717.14	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.10	346.46	770.27	1379.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.53	332.68	1642.08	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
237.85	683.01	1196.64	1134.18	-36.20	0.0	0.0	0.0	0.0	0.0	0.0
237.60	861.26	1581.16	1207.16	-45.31	0.0	0.0	0.0	0.0	0.0	0.0
236.92	333.00	1492.62	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.70	354.16	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.27	363.49	1234.52	1471.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.06	326.99	1419.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234.32	389.38	1181.84	1407.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232.21	354.71	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.35	1154.10	1551.92	1340.08	-46.60	0.0	0.0	0.0	0.0	0.0	0.0
230.42	362.27	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.10	325.13	1348.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.12	351.25	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228.78	435.41	1124.11	1338.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227.95	1347.88	1400.23	1213.78	-10.78	0.0	0.0	0.0	0.0	0.0	0.0
225.10	380.48	1412.34	1725.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.00	5852.58	1409.33	1251.38	-51.53	0.0	1431.17	1112.32	0.763	0.078	0.483

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
190.00	1532.51	2058.06	1611.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.00	661.95	992.27	1892.18	-30.01	0.0	0.0	0.0	0.0	0.0	0.0
172.44	290.23	1997.53	1806.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.26	311.28	679.37	1576.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.91	318.15	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.77	291.25	1936.29	1830.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.90	296.60	1873.73	1855.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.92	392.15	2058.06	1323.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.84	321.45	652.11	1507.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.52	329.65	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.32	296.26	1810.61	1880.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.34	296.90	1748.47	1904.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.00	5136.76	1348.90	1685.30	-65.90	0.0	1635.23	1789.26	0.082	6.756	2.167
153.16	324.77	1867.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.74	341.23	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.31	324.67	1793.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.47	665.48	1232.60	1149.30	-47.41	0.0	0.0	0.0	0.0	0.0	0.0
150.61	323.97	1643.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.27	835.24	1581.16	1207.16	-45.31	0.0	0.0	0.0	0.0	0.0	0.0
149.91	340.39	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.71	322.74	1569.48	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.61	319.80	1495.42	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.69	338.17	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.42	352.53	1233.37	1469.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.34	313.66	1422.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.71	370.39	1179.71	1405.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.99	814.27	1584.89	1202.08	-46.60	0.0	0.0	0.0	0.0	0.0	0.0
143.89	334.03	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.73	329.89	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.29	302.20	1349.95	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.46	385.49	1122.30	1336.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.15	316.29	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.26	1207.38	1400.13	1213.54	-10.76	0.0	0.0	0.0	0.0	0.0	0.0
137.48	364.32	1411.20	1722.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.67	4043.32	1385.64	1263.08	-51.53	0.0	0.0	0.0	0.0	0.0	0.0
100.32	198.40	1122.05	2013.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.00	2193.28	963.68	1871.31	-30.01	0.0	0.0	0.0	0.0	0.0	0.0
84.98	688.93	2058.06	1748.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.92	387.14	2058.06	1648.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.71	426.86	2058.06	1568.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.91	434.43	2058.06	1486.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.93	431.34	2058.06	1403.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.40	348.25	679.70	1576.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.10	355.30	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.18	320.67	1996.61	1806.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.13	308.74	1934.84	1830.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.22	342.62	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.00	335.06	652.21	1507.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.38	304.09	1872.63	1855.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.00	300.27	1809.96	1880.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.80	381.10	2058.06	1317.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.74	399.84	1062.00	1196.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68.48	296.66	1747.36	1905.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.00	4051.24	1407.34	1672.26	-65.90	0.0	1635.23	1789.26	0.082	5.377	2.439
66.48	410.65	973.46	2072.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.42	321.33	1868.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.36	391.02	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.14	338.87	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.84	319.74	1794.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.26	654.35	1231.86	1149.99	-47.48	0.0	0.0	0.0	0.0	0.0	0.0
64.76	823.25	1581.15	1207.16	-45.31	0.0	0.0	0.0	0.0	0.0	0.0
64.68	316.24	1645.65	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.28	333.16	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.08	313.93	1571.57	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.39	310.71	1497.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.27	336.37	1233.86	1470.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.12	358.31	1181.26	1407.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.01	328.56	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
62.42	306.01	1424.19	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.97	799.50	1583.13	1201.28	-46.60	0.0	0.0	0.0	0.0	0.0	0.0
61.11	320.45	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.81	297.04	1351.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.75	318.21	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.59	380.86	1123.06	1337.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.11	304.80	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59.74	1163.89	1400.22	1213.76	-10.75	0.0	0.0	0.0	0.0	0.0	0.0
58.33	3957.57	1387.69	1261.01	-51.53	0.0	0.0	0.0	0.0	0.0	0.0
53.98	332.16	1407.54	1713.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	4.607e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.745	0.148	0.761	1.213e+04	2.6	3.662e+05	79.5	459.40	9.97e-02	0.0	0.0
2	7.156	0.140	0.748	3.425e+05	74.3	7660.44	1.7	3359.04	0.7	0.0	0.0
3	9.508	0.105	0.642	602.77	0.1	2129.29	0.5	1.786e+04	3.9	0.0	0.0
4	9.664	0.103	0.637	3.918e+04	8.5	3907.00	0.8	8.136e+04	17.7	0.0	0.0
5	14.145	0.071	0.536	1.683e+04	3.7	1850.18	0.4	2.337e+05	50.7	0.0	0.0
6	14.957	0.067	0.524	1.702e+04	3.7	3.542e+04	7.7	2.588e+04	5.6	0.0	0.0
7	16.728	0.060	0.502	1.787e+04	3.9	1.343e+04	2.9	4.237e+04	9.2	0.0	0.0
8	17.135	0.058	0.498	7410.71	1.6	9024.59	2.0	1.155e+04	2.5	0.0	0.0
9	19.239	0.052	0.478	879.08	0.2	1.518e+04	3.3	2770.19	0.6	0.0	0.0
10	20.669	0.048	0.467	1804.80	0.4	3547.27	0.8	8663.58	1.9	0.0	0.0
11	24.061	0.042	0.446	3152.64	0.7	795.94	0.2	2.460e+04	5.3	0.0	0.0
12	30.321	0.033	0.420	1.58e-04	0.0	866.18	0.2	1907.11	0.4	0.0	0.0
13	37.645	0.027	0.400	869.54	0.2	47.76	1.04e-02	3246.22	0.7	0.0	0.0
14	42.087	0.024	0.392	74.91	1.63e-02	49.90	1.08e-02	2118.10	0.5	0.0	0.0
15	47.059	0.021	0.384	234.07	5.08e-02	450.95	9.79e-02	552.02	0.1	0.0	0.0
Risulta				4.605e+05		4.606e+05		4.604e+05			
In percentuale				99.96		99.97		99.94			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.273 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.139 sec.
			numero di modi considerati: 15
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
790.00	897.50	1497.15	1698.89	0.0	-11.41	1496.46	1696.46	1.152	0.006	0.023
745.85	520.56	1464.30	1615.09	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
744.63	132.33	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.85	134.16	1402.73	1700.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.20	519.60	1517.03	1749.35	0.0	-5.99	0.0	0.0	0.0	0.0	0.0
741.31	217.84	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
740.99	109.93	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
709.15	30.09	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
708.45	60.87	1057.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
707.75	140.79	1087.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
706.28	203.10	1151.07	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.80	187.17	1214.73	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.17	95.25	1108.43	959.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.80	160.93	1152.74	948.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
703.35	381.64	1259.61	914.38	0.0	-1.41	0.0	0.0	0.0	0.0	0.0
701.67	763.76	1427.69	1390.04	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
700.91	157.37	1249.36	959.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.83	266.76	1198.79	981.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.58	139.99	1129.45	1012.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.02	303.81	1420.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.35	199.05	1301.63	965.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.26	132.10	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.13	150.58	1349.84	950.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.49	129.53	1269.99	992.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.37	304.92	1491.03	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.26	91.82	1239.68	1008.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.05	133.29	1403.15	1701.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.00	3688.11	762.27	1220.03	0.0	-14.79	0.0	0.0	0.0	0.0	0.0
696.81	134.56	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.73	288.08	1561.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.37	235.57	1205.81	1054.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.09	463.86	1400.35	982.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.75	136.14	1425.26	1757.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.39	419.61	1296.93	1035.07	0.0	-1.47	0.0	0.0	0.0	0.0	0.0
695.25	156.23	1288.42	1040.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.08	276.34	1632.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.47	379.35	1487.82	974.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.36	255.29	1525.77	1778.97	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
693.67	499.45	877.79	1230.98	0.0	-1.24	0.0	0.0	0.0	0.0	0.0
693.58	499.13	876.93	1232.60	0.0	-3.73	0.0	0.0	0.0	0.0	0.0
693.49	250.15	721.35	1296.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.43	269.22	1703.67	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.25	261.21	1036.77	1175.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.97	589.49	1163.94	1129.15	0.0	-17.90	0.0	0.0	0.0	0.0	0.0
692.62	296.87	1176.16	1130.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.19	701.10	1046.28	1189.49	0.0	-15.71	0.0	0.0	0.0	0.0	0.0
691.78	453.85	1562.43	991.61	0.0	-10.11	0.0	0.0	0.0	0.0	0.0
691.55	522.03	1590.70	1311.39	0.0	-41.41	0.0	0.0	0.0	0.0	0.0
691.49	199.01	1308.75	1097.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.43	254.06	1348.10	1082.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.28	374.30	1420.14	1056.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.08	320.46	613.76	1380.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.69	98.30	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.56	540.69	544.42	1416.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.38	848.21	1182.75	1166.23	0.0	-11.24	0.0	0.0	0.0	0.0	0.0
690.33	527.47	835.06	1305.49	0.0	-1.28	0.0	0.0	0.0	0.0	0.0
690.27	242.92	742.53	1342.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.14	459.50	1502.59	1043.04	0.0	-15.88	0.0	0.0	0.0	0.0	0.0
690.05	461.52	1306.43	1122.79	0.0	-20.22	0.0	0.0	0.0	0.0	0.0
689.84	612.77	480.39	1454.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.78	119.67	1087.82	1214.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.43	143.48	655.70	1391.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.11	324.72	1570.74	1033.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.49	541.22	1848.35	933.79	0.0	-2.75	0.0	0.0	0.0	0.0	0.0
688.24	424.69	968.13	1287.97	0.0	-11.68	0.0	0.0	0.0	0.0	0.0
687.94	214.49	1245.83	1182.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.83	301.69	1642.31	1027.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.73	258.46	1150.40	1224.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.65	207.16	1288.75	1170.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.46	344.51	1348.69	1150.22	0.0	-0.81	0.0	0.0	0.0	0.0	0.0
687.36	213.48	1378.79	1139.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.31	80.80	462.69	1504.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.15	320.43	1436.74	1120.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.99	551.44	1358.16	1154.77	0.0	-23.30	0.0	0.0	0.0	0.0	0.0
686.84	310.77	1987.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.71	481.96	1032.75	1288.51	0.0	-1.07	0.0	0.0	0.0	0.0	0.0
686.65	482.42	849.59	1362.41	0.0	-4.72	0.0	0.0	0.0	0.0	0.0
686.56	570.14	1294.49	1187.09	0.0	-16.34	0.0	0.0	0.0	0.0	0.0
686.47	552.90	798.48	1385.55	0.0	-1.18	0.0	0.0	0.0	0.0	0.0
686.34	333.92	1508.16	1105.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.27	264.31	1779.78	1016.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.19	534.44	1774.46	1019.28	0.0	-9.45	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
685.09	260.27	1912.47	966.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.73	449.41	651.04	1473.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.33	505.36	580.40	1508.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.11	299.07	1650.18	1087.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.01	238.12	1846.37	1011.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.94	607.95	514.95	1541.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.85	234.34	1227.54	1259.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.61	214.76	1270.09	1247.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.51	243.88	1180.81	1284.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.36	215.75	1313.04	1234.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.16	437.53	1236.11	1268.59	0.0	-4.36	0.0	0.0	0.0	0.0	0.0
682.97	1025.40	1271.44	1257.70	0.0	-19.75	0.0	0.0	0.0	0.0	0.0
682.92	254.71	1084.64	1332.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.70	603.36	1262.49	1265.32	0.0	-8.53	0.0	0.0	0.0	0.0	0.0
682.58	290.92	972.70	1382.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.45	1266.16	1323.58	1245.84	0.0	-29.61	0.0	0.0	0.0	0.0	0.0
682.37	309.82	851.72	1434.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.16	325.65	1523.68	1171.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.77	267.45	1784.17	1074.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.27	313.70	1592.25	1159.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.07	430.85	2028.56	989.33	0.0	-2.20	0.0	0.0	0.0	0.0	0.0
680.52	245.14	1846.92	1070.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
680.26	299.69	1660.29	1149.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.47	224.04	1253.23	1324.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.28	448.62	1532.15	1217.06	0.0	-13.78	0.0	0.0	0.0	0.0	0.0
679.23	500.91	1541.38	1214.37	0.0	-8.55	0.0	0.0	0.0	0.0	0.0
679.05	256.78	1162.15	1367.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.98	218.44	1338.66	1299.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.80	273.01	1109.85	1392.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.73	296.07	1382.11	1285.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.59	285.02	1054.97	1418.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.48	320.48	1424.00	1273.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.40	297.14	997.56	1444.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.34	499.70	1652.54	1185.44	0.0	-9.44	0.0	0.0	0.0	0.0	0.0
678.23	308.84	938.50	1470.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.09	592.10	1291.42	1332.81	0.0	-18.17	0.0	0.0	0.0	0.0	0.0
677.99	856.31	736.12	1554.98	0.0	-2.56	0.0	0.0	0.0	0.0	0.0
677.93	1105.16	969.25	1463.97	0.0	-27.53	0.0	0.0	0.0	0.0	0.0
677.86	309.54	1542.04	1237.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.61	82.62	519.52	1647.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.29	588.88	553.93	1639.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.17	305.52	1606.63	1223.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.94	531.48	1963.67	1085.32	0.0	-4.05	0.0	0.0	0.0	0.0	0.0
676.30	296.33	1672.41	1212.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.84	221.25	1908.61	1126.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.33	282.71	1737.29	1203.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.09	221.62	1278.92	1389.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.94	241.06	1235.31	1409.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.85	420.63	1634.68	1252.11	0.0	-12.72	0.0	0.0	0.0	0.0	0.0
674.76	260.83	1187.57	1431.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.56	494.83	1236.34	1414.96	0.0	-4.56	0.0	0.0	0.0	0.0	0.0
674.36	850.36	1419.62	1346.18	0.0	-14.26	0.0	0.0	0.0	0.0	0.0
674.17	299.09	1023.69	1506.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.99	724.59	1411.07	1355.83	0.0	-20.71	0.0	0.0	0.0	0.0	0.0
673.94	317.42	1503.21	1319.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.75	317.91	904.13	1560.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.65	289.35	1560.21	1302.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.49	328.29	842.60	1589.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.27	241.80	1860.56	1189.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.06	294.90	1622.14	1287.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.98	617.17	1317.20	1410.07	0.0	-25.35	0.0	0.0	0.0	0.0	0.0
672.77	126.78	547.93	1719.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.30	290.27	1685.98	1275.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.24	214.30	1915.33	1185.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.96	459.91	645.58	1694.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.84	390.76	585.92	1720.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.51	502.89	719.34	1672.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.44	276.24	1749.57	1264.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
671.19	197.01	1965.77	1183.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.71	220.22	1304.61	1453.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.59	237.82	1261.57	1472.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.51	255.54	1811.53	1255.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.46	470.79	1274.12	1470.09	0.0	-2.66	0.0	0.0	0.0	0.0	0.0
670.30	275.52	1162.81	1517.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.24	213.76	1389.46	1428.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.12	495.76	1484.79	1392.29	0.0	-17.94	0.0	0.0	0.0	0.0	0.0
670.05	193.72	1432.17	1414.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.94	296.65	1050.49	1567.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.88	219.76	1474.40	1400.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.74	581.59	1246.82	1493.59	0.0	-10.57	0.0	0.0	0.0	0.0	0.0
669.55	527.78	1330.60	1463.08	0.0	-18.66	0.0	0.0	0.0	0.0	0.0
669.42	271.80	1580.13	1366.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.34	290.99	872.34	1648.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.03	499.98	1428.36	1433.61	0.0	-24.64	0.0	0.0	0.0	0.0	0.0
668.95	281.03	1638.12	1351.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.79	188.00	1920.83	1241.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.59	155.33	772.48	1701.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.29	280.50	1700.38	1338.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.92	125.20	576.35	1790.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.78	161.60	1968.60	1240.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.58	265.38	1762.35	1325.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.86	244.17	1822.31	1314.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.72	366.20	672.38	1773.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.38	312.38	617.91	1800.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.33	725.32	1273.64	1540.65	0.0	-25.40	0.0	0.0	0.0	0.0	0.0
666.26	232.88	1287.43	1536.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.16	464.62	1300.37	1533.43	0.0	-2.59	0.0	0.0	0.0	0.0	0.0
666.04	485.29	1492.58	1458.62	0.0	-13.77	0.0	0.0	0.0	0.0	0.0
665.90	494.97	1253.08	1556.28	0.0	-5.60	0.0	0.0	0.0	0.0	0.0
665.78	715.52	1314.01	1534.74	0.0	-8.40	0.0	0.0	0.0	0.0	0.0
665.56	705.58	1413.58	1498.30	0.0	-18.10	0.0	0.0	0.0	0.0	0.0
665.43	296.93	958.35	1681.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.35	875.72	1195.05	1589.48	0.0	-23.45	0.0	0.0	0.0	0.0	0.0
665.23	263.78	840.90	1731.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.05	243.09	2058.06	1251.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.90	264.69	1656.42	1413.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.37	264.95	1715.93	1398.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.82	253.37	1776.40	1384.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.26	237.13	1834.66	1370.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.07	103.48	604.76	1862.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.87	321.00	638.50	1852.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.70	222.90	1891.35	1357.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.58	287.14	2000.74	1316.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.34	218.38	1945.88	1342.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.20	318.64	696.26	1840.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.95	669.65	1308.74	1601.81	0.0	-1.78	0.0	0.0	0.0	0.0	0.0
661.85	737.15	1087.08	1691.90	0.0	-12.81	0.0	0.0	0.0	0.0	0.0
661.73	279.68	1160.59	1664.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.67	655.20	1478.96	1539.09	0.0	-1.63	0.0	0.0	0.0	0.0	0.0
661.59	289.43	1103.49	1689.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.54	229.45	1567.92	1505.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.44	562.43	931.39	1760.77	0.0	-4.79	0.0	0.0	0.0	0.0	0.0
661.32	542.03	1271.79	1627.37	0.0	-12.63	0.0	0.0	0.0	0.0	0.0
661.25	578.18	895.12	1778.15	0.0	-1.19	0.0	0.0	0.0	0.0	0.0
661.17	252.37	2058.06	1317.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.99	248.15	1675.48	1472.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.58	248.51	1732.92	1456.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.14	240.07	1791.26	1441.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.68	228.92	1847.95	1426.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.17	226.22	1903.58	1413.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.58	222.56	1960.12	1400.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.23	315.28	1655.50	1528.32	0.0	-27.26	0.0	0.0	0.0	0.0	0.0
657.84	441.27	1313.66	1670.32	0.0	-0.89	0.0	0.0	0.0	0.0	0.0
657.76	254.23	1241.58	1700.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.56	1613.06	1432.61	1627.50	0.0	-7.98	0.0	0.0	0.0	0.0	0.0
657.47	517.64	1357.22	1659.28	0.0	-10.12	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
657.39	267.93	722.42	1912.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.33	811.04	1257.30	1701.37	0.0	-25.41	0.0	0.0	0.0	0.0	0.0
657.23	816.04	1143.54	1748.24	0.0	-17.18	0.0	0.0	0.0	0.0	0.0
657.15	596.29	920.07	1838.38	0.0	-1.22	0.0	0.0	0.0	0.0	0.0
656.97	384.13	673.06	1939.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.92	233.67	1749.67	1512.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.59	226.64	1806.18	1496.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.19	215.48	1861.11	1480.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.69	206.28	1914.89	1468.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.06	191.27	1967.11	1458.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
654.32	200.69	2011.36	1453.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.95	209.94	1360.25	1718.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.89	460.73	1452.71	1682.44	0.0	-4.97	0.0	0.0	0.0	0.0	0.0
653.83	206.05	1613.57	1619.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.74	459.02	1455.62	1683.94	0.0	-7.79	0.0	0.0	0.0	0.0	0.0
653.59	488.05	1441.93	1691.99	0.0	-9.90	0.0	0.0	0.0	0.0	0.0
653.46	296.29	693.65	1991.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.38	834.04	1497.63	1673.31	0.0	-27.75	0.0	0.0	0.0	0.0	0.0
653.25	297.79	1099.62	1833.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.14	516.43	1361.97	1731.49	0.0	-15.54	0.0	0.0	0.0	0.0	0.0
653.02	1478.64	859.76	1932.98	0.0	-4.62	0.0	0.0	0.0	0.0	0.0
652.80	199.43	1875.43	1533.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.58	223.40	1403.02	1701.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.41	175.81	1926.56	1519.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
651.80	148.99	1973.66	1511.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.63	187.93	2012.47	1515.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.18	624.27	1550.76	1706.85	0.0	-5.01	0.0	0.0	0.0	0.0	0.0
650.08	610.43	1597.54	1690.27	0.0	-7.70	0.0	0.0	0.0	0.0	0.0
649.99	220.53	1295.71	1811.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.91	208.64	1786.05	1618.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.79	200.96	1838.74	1599.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.70	258.90	1244.66	1836.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.59	187.88	1890.47	1582.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.52	218.92	2058.06	1516.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.39	238.29	1952.37	1561.16	0.0	-0.63	0.0	0.0	0.0	0.0	0.0
649.29	292.23	1188.05	1866.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.15	303.02	1127.77	1892.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.03	567.23	1229.38	1846.05	0.0	-8.05	0.0	0.0	0.0	0.0	0.0
648.95	307.36	1002.77	1945.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.90	297.99	940.89	1971.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.78	284.80	881.14	1996.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.56	354.02	794.32	2035.15	0.0	-2.71	0.0	0.0	0.0	0.0	0.0
648.19	262.66	775.90	2048.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
647.57	390.93	728.21	2078.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.88	254.09	2005.94	1582.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.75	131.41	1364.64	1839.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.57	199.72	1805.45	1667.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.52	1679.13	1582.13	1756.74	0.0	-10.62	0.0	0.0	0.0	0.0	0.0
646.44	575.61	1832.98	1658.69	0.0	-5.87	0.0	0.0	0.0	0.0	0.0
645.93	252.67	1279.14	1887.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.64	227.28	2058.06	1583.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.28	298.12	1219.30	1922.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.06	298.80	1156.42	1951.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
644.92	609.12	1060.24	1992.04	0.0	-1.33	0.0	0.0	0.0	0.0	0.0
644.86	538.66	936.75	2041.90	0.0	-1.15	0.0	0.0	0.0	0.0	0.0
644.55	292.24	976.45	2030.64	0.0	-10.24	0.0	0.0	0.0	0.0	0.0
644.41	75.37	1342.60	1888.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.75	377.07	809.96	2111.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.69	145.14	718.41	2148.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.42	171.62	1873.69	1694.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.28	346.42	1870.48	1697.78	0.0	-1.95	0.0	0.0	0.0	0.0	0.0
643.16	196.88	1776.44	1737.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.04	574.44	1425.49	1878.44	0.0	-24.08	0.0	0.0	0.0	0.0	0.0
642.73	203.51	2011.77	1651.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
642.56	564.28	1518.68	1849.80	0.0	-5.63	0.0	0.0	0.0	0.0	0.0
642.36	508.49	1548.40	1841.46	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
642.31	360.57	1328.84	1929.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.76	214.34	2058.06	1649.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
641.71	331.30	1253.37	1969.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.63	133.46	877.36	2120.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.40	303.99	1184.48	2002.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.21	518.50	1034.23	2065.33	0.0	-3.84	0.0	0.0	0.0	0.0	0.0
641.02	563.03	1019.18	2074.90	0.0	-1.30	0.0	0.0	0.0	0.0	0.0
640.62	132.71	1890.52	1735.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.51	117.45	1932.64	1720.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.38	263.34	1803.71	1773.79	0.0	-1.87	0.0	0.0	0.0	0.0	0.0
639.94	145.80	1972.25	1714.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.77	195.60	1800.83	1785.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.66	156.57	789.74	2189.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.23	159.53	2016.43	1709.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.17	536.65	1166.33	1989.67	0.0	-20.49	0.0	0.0	0.0	0.0	0.0
638.84	105.43	746.83	2220.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.57	63.38	1938.08	1751.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.52	186.88	781.25	2211.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.41	338.32	1726.88	1838.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.23	96.90	1908.31	1769.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.18	699.08	1611.45	1887.94	0.0	-7.41	0.0	0.0	0.0	0.0	0.0
638.00	1060.39	1243.21	2037.05	0.0	-9.78	0.0	0.0	0.0	0.0	0.0
637.94	65.52	1837.03	1802.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.85	531.97	1571.19	1909.37	0.0	-15.46	0.0	0.0	0.0	0.0	0.0
637.70	285.50	1210.38	2055.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.61	609.74	1076.28	2110.12	0.0	-2.74	0.0	0.0	0.0	0.0	0.0
637.55	263.67	1071.89	2113.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.07	184.15	1794.77	1834.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.97	175.13	1973.28	1764.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.63	105.77	2017.62	1753.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.33	120.60	1927.59	1793.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.13	491.54	1264.54	2060.70	0.0	-21.36	0.0	0.0	0.0	0.0	0.0
635.19	192.45	879.77	2229.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
634.00	4981.33	1356.10	2060.82	0.0	-25.48	1253.77	2101.80	0.332	0.308	0.310
632.92	68.49	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.78	69.69	1464.83	1614.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.34	142.52	1063.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.92	68.99	1497.72	1601.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.79	1050.45	1151.59	2179.71	0.0	-14.79	0.0	0.0	0.0	0.0	0.0
631.71	177.74	1103.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
630.84	215.71	1157.68	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.94	226.74	1217.02	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.16	242.57	1278.40	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
628.24	255.15	1347.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
627.13	258.15	1417.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
625.27	263.80	1489.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.44	260.69	700.11	1244.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.26	259.91	633.57	1271.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
623.54	526.36	1164.76	1062.46	0.0	-15.57	0.0	0.0	0.0	0.0	0.0
623.20	123.15	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.69	248.69	1088.51	1090.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.18	253.61	1025.86	1115.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
621.98	791.57	1119.68	1089.06	0.0	-14.26	0.0	0.0	0.0	0.0	0.0
621.65	258.40	962.15	1140.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.53	260.72	1705.31	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.19	265.08	568.54	1296.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
619.13	258.58	1776.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
617.77	256.00	1847.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
616.43	253.14	1918.25	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
615.09	250.62	1988.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.84	276.54	503.94	1322.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.76	249.45	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
611.41	161.02	1442.94	1623.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
606.28	324.82	1464.94	1614.83	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
603.65	259.38	2058.06	975.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601.18	162.65	1402.55	1700.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	2342.44	563.21	1662.92	0.0	-36.34	549.80	1629.15	0.0	1.4626e+06	1.4655e+06
597.60	163.59	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.67	168.95	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.54	159.15	1425.12	1757.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
594.22	319.62	1398.25	1208.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.85	308.42	1424.53	1274.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.00	1267.50	1973.42	1472.63	0.0	-41.87	0.0	0.0	0.0	0.0	0.0
589.21	179.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
588.39	252.21	2058.06	1318.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
587.49	151.36	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.66	239.85	2058.06	1387.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.40	217.59	754.26	2143.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
584.37	230.68	2058.06	1455.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
582.84	525.73	1530.30	1777.17	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
581.76	223.18	2058.06	1522.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
580.05	272.30	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
579.14	140.62	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.99	216.75	2058.06	1588.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.76	219.62	781.07	2211.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.51	211.84	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.88	215.04	1469.28	1868.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.06	211.78	2058.06	1653.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
575.53	402.32	1868.22	1857.40	0.0	-5.04	0.0	0.0	0.0	0.0	0.0
574.03	212.77	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.55	215.12	1495.07	1933.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.80	2093.01	1218.35	2115.53	0.0	-14.14	0.0	0.0	0.0	0.0	0.0
572.64	233.77	948.31	2222.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.55	208.30	2058.06	1718.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.41	231.55	877.39	2250.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
569.33	416.93	1865.24	1858.58	0.0	-7.41	0.0	0.0	0.0	0.0	0.0
556.69	74.14	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
556.27	154.14	1066.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.85	178.75	1109.10	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.35	207.56	1160.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.00	1115.12	1413.98	1297.56	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
554.95	221.56	1218.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
552.02	272.99	1488.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
550.94	535.50	670.98	1256.29	0.0	-1.35	0.0	0.0	0.0	0.0	0.0
550.17	269.20	1561.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
549.40	117.63	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.86	264.80	771.44	1216.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.76	266.45	1634.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.64	238.61	1091.40	1089.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.86	245.49	1030.92	1113.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.55	263.69	1707.20	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.06	254.28	968.14	1138.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546.87	381.07	1065.78	1347.21	0.0	-29.31	0.0	0.0	0.0	0.0	0.0
546.44	260.37	1779.17	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.52	262.96	571.29	1295.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.38	521.94	1334.57	1051.22	0.0	-14.15	0.0	0.0	0.0	0.0	0.0
544.35	250.80	1920.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
543.33	246.16	1989.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
542.32	244.43	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
539.81	259.78	505.18	1322.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
538.16	179.27	1403.05	1701.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
537.08	185.55	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.28	133.62	1871.67	1856.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
532.00	614.25	507.87	1523.60	0.0	-36.34	0.0	0.0	0.0	0.0	0.0
529.80	247.65	2058.06	975.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
526.89	185.77	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
525.93	117.02	1910.01	1840.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
523.69	233.75	754.10	2143.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
519.13	605.14	1519.58	1781.43	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
518.19	277.59	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
517.85	137.89	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517.22	722.05	1658.19	1622.73	0.0	-44.58	0.0	0.0	0.0	0.0	0.0
516.31	229.38	2058.06	1460.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
515.00	675.44	1941.28	1584.23	0.0	-41.87	0.0	0.0	0.0	0.0	0.0
514.87	210.65	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
514.81	219.65	2058.06	1528.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.36	213.38	1494.44	1931.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.03	210.94	2058.06	1594.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
511.60	2557.91	1162.97	2137.53	0.0	-14.14	0.0	0.0	0.0	0.0	0.0
511.37	238.73	1466.98	1862.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.94	203.29	2058.06	1658.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.18	211.08	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
509.33	988.27	595.15	1743.34	0.0	-22.58	0.0	0.0	0.0	0.0	0.0
508.80	439.77	1868.22	1857.40	0.0	-5.04	0.0	0.0	0.0	0.0	0.0
507.93	197.57	2058.06	1720.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507.73	170.78	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
505.47	324.85	1399.30	1211.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
504.67	416.19	1863.17	1859.41	0.0	-7.41	0.0	0.0	0.0	0.0	0.0
503.22	301.29	1425.36	1277.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
501.00	146.11	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.74	68.76	1875.48	1854.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.46	74.81	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.21	154.94	1066.89	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.95	180.69	1109.50	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.65	209.66	1162.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.42	220.36	1219.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.33	828.39	1427.56	1400.74	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
477.82	284.44	1409.85	1718.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
477.65	278.03	1488.13	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.35	273.78	1562.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.11	269.28	710.31	1240.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.67	272.29	642.40	1267.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.60	111.76	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.32	270.51	1636.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.78	262.90	776.93	1214.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.46	267.27	1709.54	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.18	236.10	1036.81	1110.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.02	224.57	1093.76	1088.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.68	263.21	1782.32	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.44	252.45	974.62	1135.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.96	517.52	1379.12	1035.02	0.0	-12.72	0.0	0.0	0.0	0.0	0.0
472.61	267.41	574.24	1294.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.25	247.95	1924.23	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.90	363.97	1127.26	1381.90	0.0	-34.03	0.0	0.0	0.0	0.0	0.0
471.70	117.36	1910.50	1840.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.56	239.49	1991.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
470.88	238.57	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
469.41	202.49	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467.57	257.92	505.29	1322.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
464.00	614.16	508.03	1523.98	0.0	-36.34	0.0	0.0	0.0	0.0	0.0
461.81	192.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.99	237.48	754.04	2143.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.27	233.30	2058.06	975.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455.42	543.32	1528.13	1778.03	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
455.15	280.92	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
455.05	140.12	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.52	229.10	780.93	2211.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.06	188.06	1471.53	1874.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452.91	201.10	1495.97	1935.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
451.77	207.96	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.69	226.02	875.58	2251.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.54	230.97	945.05	2224.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.40	2099.17	1216.80	2116.15	0.0	-14.14	0.0	0.0	0.0	0.0	0.0
450.22	457.64	2058.06	1430.83	0.0	-3.55	0.0	0.0	0.0	0.0	0.0
449.53	211.15	2058.06	1535.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.57	201.35	2058.06	1600.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.14	245.12	2058.06	1321.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
447.26	394.44	1852.10	1769.68	0.0	-10.25	0.0	0.0	0.0	0.0	0.0
445.02	180.27	2058.06	1723.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	1728.18	1923.78	1644.79	0.0	-44.36	1963.11	1856.31	0.217	0.368	3.505
424.02	67.10	1913.18	1839.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
418.67	988.27	595.15	1743.34	0.0	-22.58	0.0	0.0	0.0	0.0	0.0
417.87	189.84	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
416.73	335.23	1401.97	1218.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
415.61	282.59	1427.01	1281.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414.50	135.88	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
413.11	92.55	1874.77	1854.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
406.17	380.30	1412.87	1726.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.11	215.93	1052.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.00	180.24	1104.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.85	222.25	1160.39	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.73	224.25	1220.21	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.67	849.79	1426.74	1407.68	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
402.89	280.66	1488.47	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402.24	549.20	1143.36	1071.30	0.0	-16.59	0.0	0.0	0.0	0.0	0.0
401.87	274.15	645.40	1266.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.80	100.87	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.71	274.55	1638.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.40	204.78	1099.38	1086.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.34	265.04	782.10	1212.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.26	271.68	1712.43	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.98	229.48	1045.41	1107.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.86	268.03	1786.38	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.49	261.89	1859.44	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.29	269.23	576.08	1293.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.13	505.78	1371.57	1050.99	0.0	-13.93	0.0	0.0	0.0	0.0	0.0
399.90	261.30	916.43	1158.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.78	482.28	1460.89	1026.01	0.0	-11.27	0.0	0.0	0.0	0.0	0.0
399.44	230.89	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.12	206.65	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
398.40	258.73	506.57	1321.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
396.00	615.86	507.86	1523.57	0.0	-36.34	0.0	0.0	0.0	0.0	0.0
395.20	195.36	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
395.15	197.19	1471.86	1874.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
393.60	238.73	754.02	2143.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392.42	220.16	2058.06	975.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
391.71	609.99	1519.23	1781.57	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
391.65	423.14	1528.76	1777.78	0.0	-1.64	0.0	0.0	0.0	0.0	0.0
391.35	230.36	780.90	2210.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
390.86	202.88	1496.26	1936.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.65	205.39	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.20	2556.25	1161.88	2137.96	0.0	-14.14	0.0	0.0	0.0	0.0	0.0
388.08	210.70	2058.06	1474.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.93	231.51	2058.06	1403.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.84	201.78	2058.06	1542.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.44	193.66	2058.06	1607.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.21	197.51	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
386.85	422.70	2058.06	1468.93	0.0	-17.37	0.0	0.0	0.0	0.0	0.0
385.81	161.81	2058.06	1727.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384.00	2018.56	1941.10	1585.50	0.0	-44.36	1957.35	1855.12	0.206	0.154	4.707
328.00	1.876e+05	1300.09	1513.79	0.0	-70.85	1388.66	1256.09	0.820	0.172	0.438
327.92	289.07	1442.58	1801.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322.58	553.23	1412.62	1725.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.00	1010.16	2058.06	1616.01	0.0	-18.20	0.0	0.0	0.0	0.0	0.0
255.15	246.38	1998.89	1805.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.00	1693.16	979.01	1884.36	0.0	-19.53	0.0	0.0	0.0	0.0	0.0
248.97	270.22	1938.69	1829.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.95	303.04	679.61	1576.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.69	311.70	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
245.99	573.09	1843.55	1867.20	0.0	-1.25	0.0	0.0	0.0	0.0	0.0
244.12	315.79	652.46	1508.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.03	292.93	1749.79	1904.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.66	394.73	1062.00	1179.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.61	324.38	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.23	385.55	2058.06	1325.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.64	378.11	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.57	396.87	973.36	2072.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.00	3734.62	1408.22	1664.89	0.0	-59.95	1628.78	1789.87	0.104	4.133	2.042
240.39	328.39	1867.36	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.08	343.85	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.77	329.95	1792.24	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.16	331.42	1717.14	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.10	346.46	770.27	1379.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.53	332.68	1642.08	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
237.85	683.01	1196.64	1134.18	0.0	-22.19	0.0	0.0	0.0	0.0	0.0
237.60	861.26	1581.16	1207.16	0.0	-35.56	0.0	0.0	0.0	0.0	0.0
236.92	333.00	1492.62	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.70	354.16	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.27	363.49	1234.52	1471.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.06	326.99	1419.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234.32	389.38	1181.84	1407.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232.21	354.71	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.35	1154.10	1551.92	1340.08	0.0	-41.73	0.0	0.0	0.0	0.0	0.0
230.42	362.27	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.10	325.13	1348.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.12	351.25	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228.78	435.41	1124.11	1338.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227.95	1347.88	1400.23	1213.78	0.0	-27.14	0.0	0.0	0.0	0.0	0.0
225.10	380.48	1412.34	1725.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.00	5852.58	1409.33	1251.38	0.0	-37.04	1431.17	1112.32	0.763	0.078	0.483
190.00	1532.51	2058.06	1611.37	0.0	-18.20	0.0	0.0	0.0	0.0	0.0
175.00	661.95	992.27	1892.18	0.0	-19.53	0.0	0.0	0.0	0.0	0.0
172.44	290.23	1997.53	1806.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.26	311.28	679.37	1576.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.91	318.15	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.77	291.25	1936.29	1830.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.90	296.60	1873.73	1855.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.92	392.15	2058.06	1323.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.84	321.45	652.11	1507.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.52	329.65	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.32	296.26	1810.61	1880.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.34	296.90	1748.47	1904.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.00	5136.76	1348.90	1685.30	0.0	-59.95	1635.23	1789.26	0.082	6.756	2.167
153.16	324.77	1867.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.74	341.23	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.31	324.67	1793.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.47	665.48	1232.60	1149.30	0.0	-23.64	0.0	0.0	0.0	0.0	0.0
150.61	323.97	1643.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.27	835.24	1581.16	1207.16	0.0	-35.56	0.0	0.0	0.0	0.0	0.0
149.91	340.39	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.71	322.74	1569.48	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.61	319.80	1495.42	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.69	338.17	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.42	352.53	1233.37	1469.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.34	313.66	1422.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.71	370.39	1179.71	1405.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.99	814.27	1584.89	1202.08	0.0	-33.56	0.0	0.0	0.0	0.0	0.0
143.89	334.03	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.73	329.89	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.29	302.20	1349.95	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.46	385.49	1122.30	1336.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.15	316.29	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.26	1207.38	1400.13	1213.54	0.0	-27.08	0.0	0.0	0.0	0.0	0.0
137.48	364.32	1411.20	1722.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.67	4043.32	1385.64	1263.08	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
100.32	198.40	1122.05	2013.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.00	2193.28	963.68	1871.31	0.0	-19.53	0.0	0.0	0.0	0.0	0.0
84.98	688.93	2058.06	1748.89	0.0	-3.28	0.0	0.0	0.0	0.0	0.0
84.92	387.14	2058.06	1648.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.71	426.86	2058.06	1568.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.91	434.43	2058.06	1486.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.93	431.34	2058.06	1403.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.40	348.25	679.70	1576.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.10	355.30	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.18	320.67	1996.61	1806.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.13	308.74	1934.84	1830.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.22	342.62	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.00	335.06	652.21	1507.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.38	304.09	1872.63	1855.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.00	300.27	1809.96	1880.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.80	381.10	2058.06	1317.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.74	399.84	1062.00	1196.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
68.48	296.66	1747.36	1905.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.00	4051.24	1407.34	1672.26	0.0	-59.95	1635.23	1789.26	0.082	5.377	2.439
66.48	410.65	973.46	2072.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.42	321.33	1868.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.36	391.02	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.14	338.87	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.84	319.74	1794.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.26	654.35	1231.86	1149.99	0.0	-23.64	0.0	0.0	0.0	0.0	0.0
64.76	823.25	1581.15	1207.16	0.0	-35.56	0.0	0.0	0.0	0.0	0.0
64.68	316.24	1645.65	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.28	333.16	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.08	313.93	1571.57	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.39	310.71	1497.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.27	336.37	1233.86	1470.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.12	358.31	1181.26	1407.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.01	328.56	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.42	306.01	1424.19	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.97	799.50	1583.13	1201.28	0.0	-33.56	0.0	0.0	0.0	0.0	0.0
61.11	320.45	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.81	297.04	1351.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.75	318.21	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.59	380.86	1123.06	1337.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.11	304.80	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59.74	1163.89	1400.22	1213.76	0.0	-27.05	0.0	0.0	0.0	0.0	0.0
58.33	3957.57	1387.69	1261.01	0.0	-37.04	0.0	0.0	0.0	0.0	0.0
53.98	332.16	1407.54	1713.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	4.607e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.744	0.148	0.273	7092.95	1.5	3.712e+05	80.6	556.91	0.1	0.0	0.0
2	7.181	0.139	0.273	3.494e+05	75.8	3399.47	0.7	3345.28	0.7	0.0	0.0
3	9.519	0.105	0.241	501.24	0.1	0.16	3.39e-05	609.64	0.1	0.0	0.0
4	9.641	0.104	0.239	3.752e+04	8.1	5757.44	1.2	9.869e+04	21.4	0.0	0.0
5	14.146	0.071	0.199	1.680e+04	3.6	1902.15	0.4	2.335e+05	50.7	0.0	0.0
6	14.978	0.067	0.195	1.742e+04	3.8	3.461e+04	7.5	2.637e+04	5.7	0.0	0.0
7	16.727	0.060	0.186	1.835e+04	4.0	1.417e+04	3.1	4.024e+04	8.7	0.0	0.0
8	17.139	0.058	0.185	6380.70	1.4	8373.66	1.8	1.383e+04	3.0	0.0	0.0
9	19.309	0.052	0.177	995.52	0.2	1.586e+04	3.4	2116.91	0.5	0.0	0.0
10	20.775	0.048	0.172	1782.87	0.4	2782.21	0.6	8656.98	1.9	0.0	0.0
11	24.007	0.042	0.165	2989.74	0.6	939.62	0.2	2.454e+04	5.3	0.0	0.0
12	28.668	0.035	0.156	150.68	3.27e-02	846.14	0.2	1363.88	0.3	0.0	0.0
13	38.371	0.026	0.146	810.20	0.2	19.12	4.15e-03	5671.04	1.2	0.0	0.0
14	41.331	0.024	0.143	152.66	3.31e-02	469.88	0.1	1.27	2.76e-04	0.0	0.0
15	44.779	0.022	0.141	133.46	2.90e-02	223.95	4.86e-02	868.98	0.2	0.0	0.0
Risulta				4.605e+05		4.606e+05		4.604e+05			
In percentuale				99.95		99.97		99.93			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.273 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.141 sec.
			numero di modi considerati: 15
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
790.00	897.50	1497.15	1698.89	0.0	11.41	1496.46	1696.46	1.152	0.006	0.023
745.85	520.56	1464.30	1615.09	0.0	3.28	0.0	0.0	0.0	0.0	0.0
744.63	132.33	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.85	134.16	1402.73	1700.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.20	519.60	1517.03	1749.35	0.0	5.99	0.0	0.0	0.0	0.0	0.0
741.31	217.84	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
740.99	109.93	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
709.15	30.09	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
708.45	60.87	1057.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
707.75	140.79	1087.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
706.28	203.10	1151.07	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.80	187.17	1214.73	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.17	95.25	1108.43	959.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.80	160.93	1152.74	948.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.35	381.64	1259.61	914.38	0.0	1.41	0.0	0.0	0.0	0.0	0.0
701.67	763.76	1427.69	1390.04	0.0	37.04	0.0	0.0	0.0	0.0	0.0
700.91	157.37	1249.36	959.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.83	266.76	1198.79	981.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.58	139.99	1129.45	1012.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.02	303.81	1420.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.35	199.05	1301.63	965.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.26	132.10	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.13	150.58	1349.84	950.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.49	129.53	1269.99	992.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.37	304.92	1491.03	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.26	91.82	1239.68	1008.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.05	133.29	1403.15	1701.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.00	3688.11	762.27	1220.03	0.0	14.79	0.0	0.0	0.0	0.0	0.0
696.81	134.56	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.73	288.08	1561.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.37	235.57	1205.81	1054.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.09	463.86	1400.35	982.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.75	136.14	1425.26	1757.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.39	419.61	1296.93	1035.07	0.0	1.47	0.0	0.0	0.0	0.0	0.0
695.25	156.23	1288.42	1040.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.08	276.34	1632.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.47	379.35	1487.82	974.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.36	255.29	1525.77	1778.97	0.0	3.28	0.0	0.0	0.0	0.0	0.0
693.67	499.45	877.79	1230.98	0.0	1.24	0.0	0.0	0.0	0.0	0.0
693.58	499.13	876.93	1232.60	0.0	3.73	0.0	0.0	0.0	0.0	0.0
693.49	250.15	721.35	1296.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.43	269.22	1703.67	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.25	261.21	1036.77	1175.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.97	589.49	1163.94	1129.15	0.0	17.90	0.0	0.0	0.0	0.0	0.0
692.62	296.87	1176.16	1130.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.19	701.10	1046.28	1189.49	0.0	15.71	0.0	0.0	0.0	0.0	0.0
691.78	453.85	1562.43	991.61	0.0	10.11	0.0	0.0	0.0	0.0	0.0
691.55	522.03	1590.70	1311.39	0.0	41.41	0.0	0.0	0.0	0.0	0.0
691.49	199.01	1308.75	1097.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.43	254.06	1348.10	1082.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.28	374.30	1420.14	1056.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.08	320.46	613.76	1380.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.69	98.30	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.56	540.69	544.42	1416.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.38	848.21	1182.75	1166.23	0.0	11.24	0.0	0.0	0.0	0.0	0.0
690.33	527.47	835.06	1305.49	0.0	1.28	0.0	0.0	0.0	0.0	0.0
690.27	242.92	742.53	1342.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.14	459.50	1502.59	1043.04	0.0	15.88	0.0	0.0	0.0	0.0	0.0
690.05	461.52	1306.43	1122.79	0.0	20.22	0.0	0.0	0.0	0.0	0.0
689.84	612.77	480.39	1454.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.78	119.67	1087.82	1214.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.43	143.48	655.70	1391.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.11	324.72	1570.74	1033.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.49	541.22	1848.35	933.79	0.0	2.75	0.0	0.0	0.0	0.0	0.0
688.24	424.69	968.13	1287.97	0.0	11.68	0.0	0.0	0.0	0.0	0.0
687.94	214.49	1245.83	1182.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
687.83	301.69	1642.31	1027.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.73	258.46	1150.40	1224.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.65	207.16	1288.75	1170.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.46	344.51	1348.69	1150.22	0.0	0.81	0.0	0.0	0.0	0.0	0.0
687.36	213.48	1378.79	1139.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.31	80.80	462.69	1504.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.15	320.43	1436.74	1120.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.99	551.44	1358.16	1154.77	0.0	23.30	0.0	0.0	0.0	0.0	0.0
686.84	310.77	1987.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.71	481.96	1032.75	1288.51	0.0	1.07	0.0	0.0	0.0	0.0	0.0
686.65	482.42	849.59	1362.41	0.0	4.72	0.0	0.0	0.0	0.0	0.0
686.56	570.14	1294.49	1187.09	0.0	16.34	0.0	0.0	0.0	0.0	0.0
686.47	552.90	798.48	1385.55	0.0	1.18	0.0	0.0	0.0	0.0	0.0
686.34	333.92	1508.16	1105.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.27	264.31	1779.78	1016.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.19	534.44	1774.46	1019.28	0.0	9.45	0.0	0.0	0.0	0.0	0.0
685.09	260.27	1912.47	966.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.73	449.41	651.04	1473.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.33	505.36	580.40	1508.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.11	299.07	1650.18	1087.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.01	238.12	1846.37	1011.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.94	607.95	514.95	1541.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.85	234.34	1227.54	1259.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.61	214.76	1270.09	1247.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.51	243.88	1180.81	1284.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.36	215.75	1313.04	1234.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.16	437.53	1236.11	1268.59	0.0	4.36	0.0	0.0	0.0	0.0	0.0
682.97	1025.40	1271.44	1257.70	0.0	19.75	0.0	0.0	0.0	0.0	0.0
682.92	254.71	1084.64	1332.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.70	603.36	1262.49	1265.32	0.0	8.53	0.0	0.0	0.0	0.0	0.0
682.58	290.92	972.70	1382.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.45	1266.16	1323.58	1245.84	0.0	29.61	0.0	0.0	0.0	0.0	0.0
682.37	309.82	851.72	1434.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.16	325.65	1523.68	1171.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.77	267.45	1784.17	1074.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.27	313.70	1592.25	1159.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.07	430.85	2028.56	989.33	0.0	2.20	0.0	0.0	0.0	0.0	0.0
680.52	245.14	1846.92	1070.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
680.26	299.69	1660.29	1149.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.47	224.04	1253.23	1324.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.28	448.62	1532.15	1217.06	0.0	13.78	0.0	0.0	0.0	0.0	0.0
679.23	500.91	1541.38	1214.37	0.0	8.55	0.0	0.0	0.0	0.0	0.0
679.05	256.78	1162.15	1367.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.98	218.44	1338.66	1299.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.80	273.01	1109.85	1392.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.73	296.07	1382.11	1285.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.59	285.02	1054.97	1418.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.48	320.48	1424.00	1273.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.40	297.14	997.56	1444.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.34	499.70	1652.54	1185.44	0.0	9.44	0.0	0.0	0.0	0.0	0.0
678.23	308.84	938.50	1470.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.09	592.10	1291.42	1332.81	0.0	18.17	0.0	0.0	0.0	0.0	0.0
677.99	856.31	736.12	1554.98	0.0	2.56	0.0	0.0	0.0	0.0	0.0
677.93	1105.16	969.25	1463.97	0.0	27.53	0.0	0.0	0.0	0.0	0.0
677.86	309.54	1542.04	1237.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.61	82.62	519.52	1647.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.29	588.88	553.93	1639.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.17	305.52	1606.63	1223.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.94	531.48	1963.67	1085.32	0.0	4.05	0.0	0.0	0.0	0.0	0.0
676.30	296.33	1672.41	1212.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.84	221.25	1908.61	1126.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.33	282.71	1737.29	1203.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.09	221.62	1278.92	1389.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.94	241.06	1235.31	1409.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.85	420.63	1634.68	1252.11	0.0	12.72	0.0	0.0	0.0	0.0	0.0
674.76	260.83	1187.57	1431.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.56	494.83	1236.34	1414.96	0.0	4.56	0.0	0.0	0.0	0.0	0.0
674.36	850.36	1419.62	1346.18	0.0	14.26	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
674.17	299.09	1023.69	1506.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.99	724.59	1411.07	1355.83	0.0	20.71	0.0	0.0	0.0	0.0	0.0
673.94	317.42	1503.21	1319.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.75	317.91	904.13	1560.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.65	289.35	1560.21	1302.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.49	328.29	842.60	1589.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.27	241.80	1860.56	1189.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.06	294.90	1622.14	1287.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.98	617.17	1317.20	1410.07	0.0	25.35	0.0	0.0	0.0	0.0	0.0
672.77	126.78	547.93	1719.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.30	290.27	1685.98	1275.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.24	214.30	1915.33	1185.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.96	459.91	645.58	1694.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.84	390.76	585.92	1720.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.51	502.89	719.34	1672.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.44	276.24	1749.57	1264.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.19	197.01	1965.77	1183.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.71	220.22	1304.61	1453.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.59	237.82	1261.57	1472.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.51	255.54	1811.53	1255.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.46	470.79	1274.12	1470.09	0.0	2.66	0.0	0.0	0.0	0.0	0.0
670.30	275.52	1162.81	1517.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.24	213.76	1389.46	1428.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.12	495.76	1484.79	1392.29	0.0	17.94	0.0	0.0	0.0	0.0	0.0
670.05	193.72	1432.17	1414.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.94	296.65	1050.49	1567.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.88	219.76	1474.40	1400.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.74	581.59	1246.82	1493.59	0.0	10.57	0.0	0.0	0.0	0.0	0.0
669.55	527.78	1330.60	1463.08	0.0	18.66	0.0	0.0	0.0	0.0	0.0
669.42	271.80	1580.13	1366.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.34	290.99	872.34	1648.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.03	499.98	1428.36	1433.61	0.0	24.64	0.0	0.0	0.0	0.0	0.0
668.95	281.03	1638.12	1351.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.79	188.00	1920.83	1241.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.59	155.33	772.48	1701.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.29	280.50	1700.38	1338.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.92	125.20	576.35	1790.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.78	161.60	1968.60	1240.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.58	265.38	1762.35	1325.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.86	244.17	1822.31	1314.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.72	366.20	672.38	1773.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.38	312.38	617.91	1800.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.33	725.32	1273.64	1540.65	0.0	25.40	0.0	0.0	0.0	0.0	0.0
666.26	232.88	1287.43	1536.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.16	464.62	1300.37	1533.43	0.0	2.59	0.0	0.0	0.0	0.0	0.0
666.04	485.29	1492.58	1458.62	0.0	13.77	0.0	0.0	0.0	0.0	0.0
665.90	494.97	1253.08	1556.28	0.0	5.60	0.0	0.0	0.0	0.0	0.0
665.78	715.52	1314.01	1534.74	0.0	8.40	0.0	0.0	0.0	0.0	0.0
665.56	705.58	1413.58	1498.30	0.0	18.10	0.0	0.0	0.0	0.0	0.0
665.43	296.93	958.35	1681.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.35	875.72	1195.05	1589.48	0.0	23.45	0.0	0.0	0.0	0.0	0.0
665.23	263.78	840.90	1731.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.05	243.09	2058.06	1251.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.90	264.69	1656.42	1413.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.37	264.95	1715.93	1398.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.82	253.37	1776.40	1384.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.26	237.13	1834.66	1370.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.07	103.48	604.76	1862.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.87	321.00	638.50	1852.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.70	222.90	1891.35	1357.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.58	287.14	2000.74	1316.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.34	218.38	1945.88	1342.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.20	318.64	696.26	1840.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.95	669.65	1308.74	1601.81	0.0	1.78	0.0	0.0	0.0	0.0	0.0
661.85	737.15	1087.08	1691.90	0.0	12.81	0.0	0.0	0.0	0.0	0.0
661.73	279.68	1160.59	1664.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.67	655.20	1478.96	1539.09	0.0	1.63	0.0	0.0	0.0	0.0	0.0
661.59	289.43	1103.49	1689.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
661.54	229.45	1567.92	1505.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.44	562.43	931.39	1760.77	0.0	4.79	0.0	0.0	0.0	0.0	0.0
661.32	542.03	1271.79	1627.37	0.0	12.63	0.0	0.0	0.0	0.0	0.0
661.25	578.18	895.12	1778.15	0.0	1.19	0.0	0.0	0.0	0.0	0.0
661.17	252.37	2058.06	1317.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.99	248.15	1675.48	1472.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.58	248.51	1732.92	1456.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.14	240.07	1791.26	1441.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.68	228.92	1847.95	1426.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.17	226.22	1903.58	1413.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.58	222.56	1960.12	1400.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.23	315.28	1655.50	1528.32	0.0	27.26	0.0	0.0	0.0	0.0	0.0
657.84	441.27	1313.66	1670.32	0.0	0.89	0.0	0.0	0.0	0.0	0.0
657.76	254.23	1241.58	1700.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.56	1613.06	1432.61	1627.50	0.0	7.98	0.0	0.0	0.0	0.0	0.0
657.47	517.64	1357.22	1659.28	0.0	10.12	0.0	0.0	0.0	0.0	0.0
657.39	267.93	722.42	1912.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.33	811.04	1257.30	1701.37	0.0	25.41	0.0	0.0	0.0	0.0	0.0
657.23	816.04	1143.54	1748.24	0.0	17.18	0.0	0.0	0.0	0.0	0.0
657.15	596.29	920.07	1838.38	0.0	1.22	0.0	0.0	0.0	0.0	0.0
656.97	384.13	673.06	1939.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.92	233.67	1749.67	1512.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.59	226.64	1806.18	1496.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.19	215.48	1861.11	1480.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.69	206.28	1914.89	1468.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.06	191.27	1967.11	1458.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
654.32	200.69	2011.36	1453.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.95	209.94	1360.25	1718.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.89	460.73	1452.71	1682.44	0.0	4.97	0.0	0.0	0.0	0.0	0.0
653.83	206.05	1613.57	1619.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.74	459.02	1455.62	1683.94	0.0	7.79	0.0	0.0	0.0	0.0	0.0
653.59	488.05	1441.93	1691.99	0.0	9.90	0.0	0.0	0.0	0.0	0.0
653.46	296.29	693.65	1991.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.38	834.04	1497.63	1673.31	0.0	27.75	0.0	0.0	0.0	0.0	0.0
653.25	297.79	1099.62	1833.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.14	516.43	1361.97	1731.49	0.0	15.54	0.0	0.0	0.0	0.0	0.0
653.02	1478.64	859.76	1932.98	0.0	4.62	0.0	0.0	0.0	0.0	0.0
652.80	199.43	1875.43	1533.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.58	223.40	1403.02	1701.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.41	175.81	1926.56	1519.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
651.80	148.99	1973.66	1511.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.63	187.93	2012.47	1515.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.18	624.27	1550.76	1706.85	0.0	5.01	0.0	0.0	0.0	0.0	0.0
650.08	610.43	1597.54	1690.27	0.0	7.70	0.0	0.0	0.0	0.0	0.0
649.99	220.53	1295.71	1811.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.91	208.64	1786.05	1618.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.79	200.96	1838.74	1599.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.70	258.90	1244.66	1836.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.59	187.88	1890.47	1582.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.52	218.92	2058.06	1516.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.39	238.29	1952.37	1561.16	0.0	0.63	0.0	0.0	0.0	0.0	0.0
649.29	292.23	1188.05	1866.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.15	303.02	1127.77	1892.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.03	567.23	1229.38	1846.05	0.0	8.05	0.0	0.0	0.0	0.0	0.0
648.95	307.36	1002.77	1945.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.90	297.99	940.89	1971.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.78	284.80	881.14	1996.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.56	354.02	794.32	2035.15	0.0	2.71	0.0	0.0	0.0	0.0	0.0
648.19	262.66	775.90	2048.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
647.57	390.93	728.21	2078.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.88	254.09	2005.94	1582.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.75	131.41	1364.64	1839.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.57	199.72	1805.45	1667.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.52	1679.13	1582.13	1756.74	0.0	10.62	0.0	0.0	0.0	0.0	0.0
646.44	575.61	1832.98	1658.69	0.0	5.87	0.0	0.0	0.0	0.0	0.0
645.93	252.67	1279.14	1887.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.64	227.28	2058.06	1583.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.28	298.12	1219.30	1922.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
645.06	298.80	1156.42	1951.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
644.92	609.12	1060.24	1992.04	0.0	1.33	0.0	0.0	0.0	0.0	0.0
644.86	538.66	936.75	2041.90	0.0	1.15	0.0	0.0	0.0	0.0	0.0
644.55	292.24	976.45	2030.64	0.0	10.24	0.0	0.0	0.0	0.0	0.0
644.41	75.37	1342.60	1888.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.75	377.07	809.96	2111.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.69	145.14	718.41	2148.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.42	171.62	1873.69	1694.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.28	346.42	1870.48	1697.78	0.0	1.95	0.0	0.0	0.0	0.0	0.0
643.16	196.88	1776.44	1737.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.04	574.44	1425.49	1878.44	0.0	24.08	0.0	0.0	0.0	0.0	0.0
642.73	203.51	2011.77	1651.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
642.56	564.28	1518.68	1849.80	0.0	5.63	0.0	0.0	0.0	0.0	0.0
642.36	508.49	1548.40	1841.46	0.0	3.28	0.0	0.0	0.0	0.0	0.0
642.31	360.57	1328.84	1929.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.76	214.34	2058.06	1649.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.71	331.30	1253.37	1969.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.63	133.46	877.36	2120.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.40	303.99	1184.48	2002.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.21	518.50	1034.23	2065.33	0.0	3.84	0.0	0.0	0.0	0.0	0.0
641.02	563.03	1019.18	2074.90	0.0	1.30	0.0	0.0	0.0	0.0	0.0
640.62	132.71	1890.52	1735.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.51	117.45	1932.64	1720.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.38	263.34	1803.71	1773.79	0.0	1.87	0.0	0.0	0.0	0.0	0.0
639.94	145.80	1972.25	1714.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.77	195.60	1800.83	1785.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.66	156.57	789.74	2189.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.23	159.53	2016.43	1709.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.17	536.65	1166.33	1989.67	0.0	20.49	0.0	0.0	0.0	0.0	0.0
638.84	105.43	746.83	2220.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.57	63.38	1938.08	1751.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.52	186.88	781.25	2211.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.41	338.32	1726.88	1838.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.23	96.90	1908.31	1769.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.18	699.08	1611.45	1887.94	0.0	7.41	0.0	0.0	0.0	0.0	0.0
638.00	1060.39	1243.21	2037.05	0.0	9.78	0.0	0.0	0.0	0.0	0.0
637.94	65.52	1837.03	1802.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.85	531.97	1571.19	1909.37	0.0	15.46	0.0	0.0	0.0	0.0	0.0
637.70	285.50	1210.38	2055.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.61	609.74	1076.28	2110.12	0.0	2.74	0.0	0.0	0.0	0.0	0.0
637.55	263.67	1071.89	2113.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.07	184.15	1794.77	1834.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.97	175.13	1973.28	1764.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.63	105.77	2017.62	1753.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.33	120.60	1927.59	1793.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.13	491.54	1264.54	2060.70	0.0	21.36	0.0	0.0	0.0	0.0	0.0
635.19	192.45	879.77	2229.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
634.00	4981.33	1356.10	2060.82	0.0	25.48	1253.77	2101.80	0.332	0.308	0.310
632.92	68.49	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.78	69.69	1464.83	1614.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.34	142.52	1063.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.92	68.99	1497.72	1601.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.79	1050.45	1151.59	2179.71	0.0	14.79	0.0	0.0	0.0	0.0	0.0
631.71	177.74	1103.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
630.84	215.71	1157.68	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.94	226.74	1217.02	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.16	242.57	1278.40	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
628.24	255.15	1347.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
627.13	258.15	1417.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
625.27	263.80	1489.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.44	260.69	700.11	1244.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.26	259.91	633.57	1271.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
623.54	526.36	1164.76	1062.46	0.0	15.57	0.0	0.0	0.0	0.0	0.0
623.20	123.15	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.69	248.69	1088.51	1090.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.18	253.61	1025.86	1115.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
621.98	791.57	1119.68	1089.06	0.0	14.26	0.0	0.0	0.0	0.0	0.0
621.65	258.40	962.15	1140.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
620.53	260.72	1705.31	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.19	265.08	568.54	1296.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
619.13	258.58	1776.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
617.77	256.00	1847.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
616.43	253.14	1918.25	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
615.09	250.62	1988.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.84	276.54	503.94	1322.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.76	249.45	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
611.41	161.02	1442.94	1623.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
606.28	324.82	1464.94	1614.83	0.0	3.28	0.0	0.0	0.0	0.0	0.0
603.65	259.38	2058.06	975.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601.18	162.65	1402.55	1700.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	2342.44	563.21	1662.92	0.0	36.34	549.80	1629.15	0.0	1.4626e+06	1.4655e+06
597.60	163.59	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.67	168.95	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.54	159.15	1425.12	1757.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
594.22	319.62	1398.25	1208.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.85	308.42	1424.53	1274.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.00	1267.50	1973.42	1472.63	0.0	41.87	0.0	0.0	0.0	0.0	0.0
589.21	179.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
588.39	252.21	2058.06	1318.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
587.49	151.36	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.66	239.85	2058.06	1387.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.40	217.59	754.26	2143.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
584.37	230.68	2058.06	1455.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
582.84	525.73	1530.30	1777.17	0.0	3.28	0.0	0.0	0.0	0.0	0.0
581.76	223.18	2058.06	1522.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
580.05	272.30	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
579.14	140.62	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.99	216.75	2058.06	1588.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.76	219.62	781.07	2211.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.51	211.84	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.88	215.04	1469.28	1868.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.06	211.78	2058.06	1653.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
575.53	402.32	1868.22	1857.40	0.0	5.04	0.0	0.0	0.0	0.0	0.0
574.03	212.77	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.55	215.12	1495.07	1933.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.80	2093.01	1218.35	2115.53	0.0	14.14	0.0	0.0	0.0	0.0	0.0
572.64	233.77	948.31	2222.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.55	208.30	2058.06	1718.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.41	231.55	877.39	2250.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
569.33	416.93	1865.24	1858.58	0.0	7.41	0.0	0.0	0.0	0.0	0.0
556.69	74.14	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
556.27	154.14	1066.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.85	178.75	1109.10	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.35	207.56	1160.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.00	1115.12	1413.98	1297.56	0.0	37.04	0.0	0.0	0.0	0.0	0.0
554.95	221.56	1218.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
552.02	272.99	1488.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
550.94	535.50	670.98	1256.29	0.0	1.35	0.0	0.0	0.0	0.0	0.0
550.17	269.20	1561.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
549.40	117.63	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.86	264.80	771.44	1216.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.76	266.45	1634.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.64	238.61	1091.40	1089.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.86	245.49	1030.92	1113.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.55	263.69	1707.20	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.06	254.28	968.14	1138.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546.87	381.07	1065.78	1347.21	0.0	29.31	0.0	0.0	0.0	0.0	0.0
546.44	260.37	1779.17	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.52	262.96	571.29	1295.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.38	521.94	1334.57	1051.22	0.0	14.15	0.0	0.0	0.0	0.0	0.0
544.35	250.80	1920.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
543.33	246.16	1989.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
542.32	244.43	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
539.81	259.78	505.18	1322.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
538.16	179.27	1403.05	1701.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
537.08	185.55	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
533.28	133.62	1871.67	1856.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
532.00	614.25	507.87	1523.60	0.0	36.34	0.0	0.0	0.0	0.0	0.0
529.80	247.65	2058.06	975.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
526.89	185.77	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
525.93	117.02	1910.01	1840.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
523.69	233.75	754.10	2143.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
519.13	605.14	1519.58	1781.43	0.0	3.28	0.0	0.0	0.0	0.0	0.0
518.19	277.59	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
517.85	137.89	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517.22	722.05	1658.19	1622.73	0.0	44.58	0.0	0.0	0.0	0.0	0.0
516.31	229.38	2058.06	1460.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
515.00	675.44	1941.28	1584.23	0.0	41.87	0.0	0.0	0.0	0.0	0.0
514.87	210.65	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
514.81	219.65	2058.06	1528.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.36	213.38	1494.44	1931.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.03	210.94	2058.06	1594.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
511.60	2557.91	1162.97	2137.53	0.0	14.14	0.0	0.0	0.0	0.0	0.0
511.37	238.73	1466.98	1862.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.94	203.29	2058.06	1658.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.18	211.08	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
509.33	988.27	595.15	1743.34	0.0	22.58	0.0	0.0	0.0	0.0	0.0
508.80	439.77	1868.22	1857.40	0.0	5.04	0.0	0.0	0.0	0.0	0.0
507.93	197.57	2058.06	1720.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507.73	170.78	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
505.47	324.85	1399.30	1211.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
504.67	416.19	1863.17	1859.41	0.0	7.41	0.0	0.0	0.0	0.0	0.0
503.22	301.29	1425.36	1277.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
501.00	146.11	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.74	68.76	1875.48	1854.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.46	74.81	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.21	154.94	1066.89	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.95	180.69	1109.50	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.65	209.66	1162.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.42	220.36	1219.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.33	828.39	1427.56	1400.74	0.0	37.04	0.0	0.0	0.0	0.0	0.0
477.82	284.44	1409.85	1718.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
477.65	278.03	1488.13	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.35	273.78	1562.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.11	269.28	710.31	1240.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.67	272.29	642.40	1267.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.60	111.76	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.32	270.51	1636.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.78	262.90	776.93	1214.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.46	267.27	1709.54	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.18	236.10	1036.81	1110.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.02	224.57	1093.76	1088.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.68	263.21	1782.32	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.44	252.45	974.62	1135.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.96	517.52	1379.12	1035.02	0.0	12.72	0.0	0.0	0.0	0.0	0.0
472.61	267.41	574.24	1294.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.25	247.95	1924.23	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.90	363.97	1127.26	1381.90	0.0	34.03	0.0	0.0	0.0	0.0	0.0
471.70	117.36	1910.50	1840.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.56	239.49	1991.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
470.88	238.57	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
469.41	202.49	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467.57	257.92	505.29	1322.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
464.00	614.16	508.03	1523.98	0.0	36.34	0.0	0.0	0.0	0.0	0.0
461.81	192.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.99	237.48	754.04	2143.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.27	233.30	2058.06	975.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455.42	543.32	1528.13	1778.03	0.0	3.28	0.0	0.0	0.0	0.0	0.0
455.15	280.92	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
455.05	140.12	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.52	229.10	780.93	2211.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.06	188.06	1471.53	1874.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452.91	201.10	1495.97	1935.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
451.77	207.96	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
450.69	226.02	875.58	2251.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.54	230.97	945.05	2224.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.40	2099.17	1216.80	2116.15	0.0	14.14	0.0	0.0	0.0	0.0	0.0
450.22	457.64	2058.06	1430.83	0.0	3.55	0.0	0.0	0.0	0.0	0.0
449.53	211.15	2058.06	1535.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.57	201.35	2058.06	1600.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.14	245.12	2058.06	1321.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
447.26	394.44	1852.10	1769.68	0.0	10.25	0.0	0.0	0.0	0.0	0.0
445.02	180.27	2058.06	1723.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	1728.18	1923.78	1644.79	0.0	44.36	1963.11	1856.31	0.217	0.368	3.505
424.02	67.10	1913.18	1839.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
418.67	988.27	595.15	1743.34	0.0	22.58	0.0	0.0	0.0	0.0	0.0
417.87	189.84	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
416.73	335.23	1401.97	1218.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
415.61	282.59	1427.01	1281.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414.50	135.88	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.11	92.55	1874.77	1854.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
406.17	380.30	1412.87	1726.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.11	215.93	1052.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.00	180.24	1104.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.85	222.25	1160.39	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.73	224.25	1220.21	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.67	849.79	1426.74	1407.68	0.0	37.04	0.0	0.0	0.0	0.0	0.0
402.89	280.66	1488.47	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402.24	549.20	1143.36	1071.30	0.0	16.59	0.0	0.0	0.0	0.0	0.0
401.87	274.15	645.40	1266.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.80	100.87	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.71	274.55	1638.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.40	204.78	1099.38	1086.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.34	265.04	782.10	1212.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.26	271.68	1712.43	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.98	229.48	1045.41	1107.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.86	268.03	1786.38	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.49	261.89	1859.44	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.29	269.23	576.08	1293.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.13	505.78	1371.57	1050.99	0.0	13.93	0.0	0.0	0.0	0.0	0.0
399.90	261.30	916.43	1158.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.78	482.28	1460.89	1026.01	0.0	11.27	0.0	0.0	0.0	0.0	0.0
399.44	230.89	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.12	206.65	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
398.40	258.73	506.57	1321.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
396.00	615.86	507.86	1523.57	0.0	36.34	0.0	0.0	0.0	0.0	0.0
395.20	195.36	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
395.15	197.19	1471.86	1874.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
393.60	238.73	754.02	2143.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392.42	220.16	2058.06	975.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
391.71	609.99	1519.23	1781.57	0.0	3.28	0.0	0.0	0.0	0.0	0.0
391.65	423.14	1528.76	1777.78	0.0	1.64	0.0	0.0	0.0	0.0	0.0
391.35	230.36	780.90	2210.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
390.86	202.88	1496.26	1936.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.65	205.39	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.20	2556.25	1161.88	2137.96	0.0	14.14	0.0	0.0	0.0	0.0	0.0
388.08	210.70	2058.06	1474.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.93	231.51	2058.06	1403.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.84	201.78	2058.06	1542.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.44	193.66	2058.06	1607.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.21	197.51	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
386.85	422.70	2058.06	1468.93	0.0	17.37	0.0	0.0	0.0	0.0	0.0
385.81	161.81	2058.06	1727.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384.00	2018.56	1941.10	1585.50	0.0	44.36	1957.35	1855.12	0.206	0.154	4.707
328.00	1.876e+05	1300.09	1513.79	0.0	70.85	1388.66	1256.09	0.820	0.172	0.438
327.92	289.07	1442.58	1801.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322.58	553.23	1412.62	1725.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.00	1010.16	2058.06	1616.01	0.0	18.20	0.0	0.0	0.0	0.0	0.0
255.15	246.38	1998.89	1805.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.00	1693.16	979.01	1884.36	0.0	19.53	0.0	0.0	0.0	0.0	0.0
248.97	270.22	1938.69	1829.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.95	303.04	679.61	1576.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
246.69	311.70	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
245.99	573.09	1843.55	1867.20	0.0	1.25	0.0	0.0	0.0	0.0	0.0
244.12	315.79	652.46	1508.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.03	292.93	1749.79	1904.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.66	394.73	1062.00	1179.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.61	324.38	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.23	385.55	2058.06	1325.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.64	378.11	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.57	396.87	973.36	2072.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.00	3734.62	1408.22	1664.89	0.0	59.95	1628.78	1789.87	0.104	4.133	2.042
240.39	328.39	1867.36	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.08	343.85	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.77	329.95	1792.24	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.16	331.42	1717.14	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.10	346.46	770.27	1379.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.53	332.68	1642.08	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
237.85	683.01	1196.64	1134.18	0.0	22.19	0.0	0.0	0.0	0.0	0.0
237.60	861.26	1581.16	1207.16	0.0	35.56	0.0	0.0	0.0	0.0	0.0
236.92	333.00	1492.62	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.70	354.16	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.27	363.49	1234.52	1471.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.06	326.99	1419.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234.32	389.38	1181.84	1407.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232.21	354.71	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.35	1154.10	1551.92	1340.08	0.0	41.73	0.0	0.0	0.0	0.0	0.0
230.42	362.27	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.10	325.13	1348.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.12	351.25	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228.78	435.41	1124.11	1338.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227.95	1347.88	1400.23	1213.78	0.0	27.14	0.0	0.0	0.0	0.0	0.0
225.10	380.48	1412.34	1725.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.00	5852.58	1409.33	1251.38	0.0	37.04	1431.17	1112.32	0.763	0.078	0.483
190.00	1532.51	2058.06	1611.37	0.0	18.20	0.0	0.0	0.0	0.0	0.0
175.00	661.95	992.27	1892.18	0.0	19.53	0.0	0.0	0.0	0.0	0.0
172.44	290.23	1997.53	1806.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.26	311.28	679.37	1576.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.91	318.15	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.77	291.25	1936.29	1830.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.90	296.60	1873.73	1855.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.92	392.15	2058.06	1323.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.84	321.45	652.11	1507.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.52	329.65	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.32	296.26	1810.61	1880.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.34	296.90	1748.47	1904.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.00	5136.76	1348.90	1685.30	0.0	59.95	1635.23	1789.26	0.082	6.756	2.167
153.16	324.77	1867.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.74	341.23	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.31	324.67	1793.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.47	665.48	1232.60	1149.30	0.0	23.64	0.0	0.0	0.0	0.0	0.0
150.61	323.97	1643.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.27	835.24	1581.16	1207.16	0.0	35.56	0.0	0.0	0.0	0.0	0.0
149.91	340.39	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.71	322.74	1569.48	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.61	319.80	1495.42	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.69	338.17	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.42	352.53	1233.37	1469.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.34	313.66	1422.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.71	370.39	1179.71	1405.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.99	814.27	1584.89	1202.08	0.0	33.56	0.0	0.0	0.0	0.0	0.0
143.89	334.03	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.73	329.89	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.29	302.20	1349.95	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.46	385.49	1122.30	1336.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.15	316.29	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.26	1207.38	1400.13	1213.54	0.0	27.08	0.0	0.0	0.0	0.0	0.0
137.48	364.32	1411.20	1722.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.67	4043.32	1385.64	1263.08	0.0	37.04	0.0	0.0	0.0	0.0	0.0
100.32	198.40	1122.05	2013.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
100.00	2193.28	963.68	1871.31	0.0	19.53	0.0	0.0	0.0	0.0	0.0
84.98	688.93	2058.06	1748.89	0.0	3.28	0.0	0.0	0.0	0.0	0.0
84.92	387.14	2058.06	1648.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.71	426.86	2058.06	1568.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.91	434.43	2058.06	1486.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.93	431.34	2058.06	1403.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.40	348.25	679.70	1576.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.10	355.30	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.18	320.67	1996.61	1806.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.13	308.74	1934.84	1830.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.22	342.62	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.00	335.06	652.21	1507.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.38	304.09	1872.63	1855.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.00	300.27	1809.96	1880.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.80	381.10	2058.06	1317.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.74	399.84	1062.00	1196.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68.48	296.66	1747.36	1905.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.00	4051.24	1407.34	1672.26	0.0	59.95	1635.23	1789.26	0.082	5.377	2.439
66.48	410.65	973.46	2072.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.42	321.33	1868.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.36	391.02	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.14	338.87	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.84	319.74	1794.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.26	654.35	1231.86	1149.99	0.0	23.64	0.0	0.0	0.0	0.0	0.0
64.76	823.25	1581.15	1207.16	0.0	35.56	0.0	0.0	0.0	0.0	0.0
64.68	316.24	1645.65	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.28	333.16	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.08	313.93	1571.57	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.39	310.71	1497.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.27	336.37	1233.86	1470.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.12	358.31	1181.26	1407.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.01	328.56	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.42	306.01	1424.19	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.97	799.50	1583.13	1201.28	0.0	33.56	0.0	0.0	0.0	0.0	0.0
61.11	320.45	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.81	297.04	1351.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.75	318.21	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.59	380.86	1123.06	1337.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.11	304.80	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59.74	1163.89	1400.22	1213.76	0.0	27.05	0.0	0.0	0.0	0.0	0.0
58.33	3957.57	1387.69	1261.01	0.0	37.04	0.0	0.0	0.0	0.0	0.0
53.98	332.16	1407.54	1713.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	4.607e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.746	0.148	0.273	5458.07	1.2	3.724e+05	80.8	586.85	0.1	0.0	0.0
2	7.095	0.141	0.273	3.486e+05	75.7	2483.82	0.5	2772.49	0.6	0.0	0.0
3	9.401	0.106	0.242	2846.82	0.6	2025.04	0.4	4.086e+04	8.9	0.0	0.0
4	9.789	0.102	0.237	3.694e+04	8.0	3368.07	0.7	5.892e+04	12.8	0.0	0.0
5	14.151	0.071	0.199	1.627e+04	3.5	1564.65	0.3	2.363e+05	51.3	0.0	0.0
6	15.010	0.067	0.195	1.777e+04	3.9	3.540e+04	7.7	2.321e+04	5.0	0.0	0.0
7	16.728	0.060	0.186	1.838e+04	4.0	1.338e+04	2.9	4.198e+04	9.1	0.0	0.0
8	17.143	0.058	0.185	7229.89	1.6	8757.00	1.9	1.233e+04	2.7	0.0	0.0
9	19.275	0.052	0.177	898.83	0.2	1.572e+04	3.4	2390.48	0.5	0.0	0.0
10	20.754	0.048	0.172	1706.98	0.4	3043.90	0.7	8810.07	1.9	0.0	0.0
11	24.060	0.042	0.164	3148.72	0.7	857.86	0.2	2.442e+04	5.3	0.0	0.0
12	29.064	0.034	0.156	50.42	1.09e-02	901.40	0.2	1321.11	0.3	0.0	0.0
13	38.246	0.026	0.146	749.72	0.2	0.64	1.38e-04	5464.99	1.2	0.0	0.0
14	42.380	0.024	0.143	363.01	7.88e-02	287.02	6.23e-02	0.39	8.36e-05	0.0	0.0
15	44.538	0.022	0.141	62.06	1.35e-02	353.58	7.67e-02	1002.11	0.2	0.0	0.0
Risulta				4.605e+05		4.606e+05		4.604e+05			

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
In percentuale				99.95		99.97		99.93			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.273 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.149 sec.
			numero di modi considerati: 15
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
790.00	897.50	1497.15	1698.89	11.48	0.0	1496.46	1696.46	1.152	0.006	0.023
745.85	520.56	1464.30	1615.09	8.25	0.0	0.0	0.0	0.0	0.0	0.0
744.63	132.33	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.85	134.16	1402.73	1700.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.20	519.60	1517.03	1749.35	9.32	0.0	0.0	0.0	0.0	0.0	0.0
741.31	217.84	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
740.99	109.93	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
709.15	30.09	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
708.45	60.87	1057.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
707.75	140.79	1087.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
706.28	203.10	1151.07	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.80	187.17	1214.73	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.17	95.25	1108.43	959.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.80	160.93	1152.74	948.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.35	381.64	1259.61	914.38	3.61	0.0	0.0	0.0	0.0	0.0	0.0
701.67	763.76	1427.69	1390.04	9.87	0.0	0.0	0.0	0.0	0.0	0.0
700.91	157.37	1249.36	959.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.83	266.76	1198.79	981.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.58	139.99	1129.45	1012.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.02	303.81	1420.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.35	199.05	1301.63	965.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.26	132.10	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.13	150.58	1349.84	950.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.49	129.53	1269.99	992.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.37	304.92	1491.03	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.26	91.82	1239.68	1008.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.05	133.29	1403.15	1701.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.00	3688.11	762.27	1220.03	37.23	0.0	0.0	0.0	0.0	0.0	0.0
696.81	134.56	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.73	288.08	1561.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.37	235.57	1205.81	1054.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.09	463.86	1400.35	982.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.75	136.14	1425.26	1757.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.39	419.61	1296.93	1035.07	3.73	0.0	0.0	0.0	0.0	0.0	0.0
695.25	156.23	1288.42	1040.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.08	276.34	1632.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.47	379.35	1487.82	974.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.36	255.29	1525.77	1778.97	8.25	0.0	0.0	0.0	0.0	0.0	0.0
693.67	499.45	877.79	1230.98	3.16	0.0	0.0	0.0	0.0	0.0	0.0
693.58	499.13	876.93	1232.60	9.47	0.0	0.0	0.0	0.0	0.0	0.0
693.49	250.15	721.35	1296.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.43	269.22	1703.67	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.25	261.21	1036.77	1175.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.97	589.49	1163.94	1129.15	45.04	0.0	0.0	0.0	0.0	0.0	0.0
692.62	296.87	1176.16	1130.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.19	701.10	1046.28	1189.49	39.47	0.0	0.0	0.0	0.0	0.0	0.0
691.78	453.85	1562.43	991.61	25.35	0.0	0.0	0.0	0.0	0.0	0.0
691.55	522.03	1590.70	1311.39	7.45	0.0	0.0	0.0	0.0	0.0	0.0
691.49	199.01	1308.75	1097.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
691.43	254.06	1348.10	1082.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.28	374.30	1420.14	1056.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.08	320.46	613.76	1380.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.69	98.30	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.56	540.69	544.42	1416.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.38	848.21	1182.75	1166.23	28.42	0.0	0.0	0.0	0.0	0.0	0.0
690.33	527.47	835.06	1305.49	3.12	0.0	0.0	0.0	0.0	0.0	0.0
690.27	242.92	742.53	1342.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.14	459.50	1502.59	1043.04	40.04	0.0	0.0	0.0	0.0	0.0	0.0
690.05	461.52	1306.43	1122.79	50.93	0.0	0.0	0.0	0.0	0.0	0.0
689.84	612.77	480.39	1454.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.78	119.67	1087.82	1214.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.43	143.48	655.70	1391.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.11	324.72	1570.74	1033.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.49	541.22	1848.35	933.79	6.98	0.0	0.0	0.0	0.0	0.0	0.0
688.24	424.69	968.13	1287.97	29.42	0.0	0.0	0.0	0.0	0.0	0.0
687.94	214.49	1245.83	1182.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.83	301.69	1642.31	1027.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.73	258.46	1150.40	1224.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.65	207.16	1288.75	1170.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.46	344.51	1348.69	1150.22	2.00	0.0	0.0	0.0	0.0	0.0	0.0
687.36	213.48	1378.79	1139.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.31	80.80	462.69	1504.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.15	320.43	1436.74	1120.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.99	551.44	1358.16	1154.77	58.64	0.0	0.0	0.0	0.0	0.0	0.0
686.84	310.77	1987.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.71	481.96	1032.75	1288.51	2.71	0.0	0.0	0.0	0.0	0.0	0.0
686.65	482.42	849.59	1362.41	11.80	0.0	0.0	0.0	0.0	0.0	0.0
686.56	570.14	1294.49	1187.09	41.16	0.0	0.0	0.0	0.0	0.0	0.0
686.47	552.90	798.48	1385.55	2.97	0.0	0.0	0.0	0.0	0.0	0.0
686.34	333.92	1508.16	1105.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.27	264.31	1779.78	1016.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.19	534.44	1774.46	1019.28	23.89	0.0	0.0	0.0	0.0	0.0	0.0
685.09	260.27	1912.47	966.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.73	449.41	651.04	1473.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.33	505.36	580.40	1508.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.11	299.07	1650.18	1087.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.01	238.12	1846.37	1011.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.94	607.95	514.95	1541.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.85	234.34	1227.54	1259.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.61	214.76	1270.09	1247.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.51	243.88	1180.81	1284.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.36	215.75	1313.04	1234.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.16	437.53	1236.11	1268.59	11.06	0.0	0.0	0.0	0.0	0.0	0.0
682.97	1025.40	1271.44	1257.70	49.64	0.0	0.0	0.0	0.0	0.0	0.0
682.92	254.71	1084.64	1332.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.70	603.36	1262.49	1265.32	21.37	0.0	0.0	0.0	0.0	0.0	0.0
682.58	290.92	972.70	1382.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.45	1266.16	1323.58	1245.84	74.61	0.0	0.0	0.0	0.0	0.0	0.0
682.37	309.82	851.72	1434.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.16	325.65	1523.68	1171.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.77	267.45	1784.17	1074.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.27	313.70	1592.25	1159.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.07	430.85	2028.56	989.33	5.52	0.0	0.0	0.0	0.0	0.0	0.0
680.52	245.14	1846.92	1070.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
680.26	299.69	1660.29	1149.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.47	224.04	1253.23	1324.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.28	448.62	1532.15	1217.06	34.70	0.0	0.0	0.0	0.0	0.0	0.0
679.23	500.91	1541.38	1214.37	21.56	0.0	0.0	0.0	0.0	0.0	0.0
679.05	256.78	1162.15	1367.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.98	218.44	1338.66	1299.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.80	273.01	1109.85	1392.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.73	296.07	1382.11	1285.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.59	285.02	1054.97	1418.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.48	320.48	1424.00	1273.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.40	297.14	997.56	1444.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.34	499.70	1652.54	1185.44	23.80	0.0	0.0	0.0	0.0	0.0	0.0
678.23	308.84	938.50	1470.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
678.09	592.10	1291.42	1332.81	45.70	0.0	0.0	0.0	0.0	0.0	0.0
677.99	856.31	736.12	1554.98	6.53	0.0	0.0	0.0	0.0	0.0	0.0
677.93	1105.16	969.25	1463.97	69.28	0.0	0.0	0.0	0.0	0.0	0.0
677.86	309.54	1542.04	1237.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.61	82.62	519.52	1647.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.29	588.88	553.93	1639.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.17	305.52	1606.63	1223.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.94	531.48	1963.67	1085.32	10.27	0.0	0.0	0.0	0.0	0.0	0.0
676.30	296.33	1672.41	1212.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.84	221.25	1908.61	1126.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.33	282.71	1737.29	1203.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.09	221.62	1278.92	1389.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.94	241.06	1235.31	1409.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.85	420.63	1634.68	1252.11	32.04	0.0	0.0	0.0	0.0	0.0	0.0
674.76	260.83	1187.57	1431.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.56	494.83	1236.34	1414.96	11.43	0.0	0.0	0.0	0.0	0.0	0.0
674.36	850.36	1419.62	1346.18	35.96	0.0	0.0	0.0	0.0	0.0	0.0
674.17	299.09	1023.69	1506.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.99	724.59	1411.07	1355.83	52.18	0.0	0.0	0.0	0.0	0.0	0.0
673.94	317.42	1503.21	1319.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.75	317.91	904.13	1560.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.65	289.35	1560.21	1302.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.49	328.29	842.60	1589.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.27	241.80	1860.56	1189.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.06	294.90	1622.14	1287.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.98	617.17	1317.20	1410.07	63.83	0.0	0.0	0.0	0.0	0.0	0.0
672.77	126.78	547.93	1719.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.30	290.27	1685.98	1275.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.24	214.30	1915.33	1185.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.96	459.91	645.58	1694.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.84	390.76	585.92	1720.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.51	502.89	719.34	1672.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.44	276.24	1749.57	1264.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.19	197.01	1965.77	1183.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.71	220.22	1304.61	1453.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.59	237.82	1261.57	1472.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.51	255.54	1811.53	1255.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.46	470.79	1274.12	1470.09	6.63	0.0	0.0	0.0	0.0	0.0	0.0
670.30	275.52	1162.81	1517.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.24	213.76	1389.46	1428.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.12	495.76	1484.79	1392.29	45.13	0.0	0.0	0.0	0.0	0.0	0.0
670.05	193.72	1432.17	1414.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.94	296.65	1050.49	1567.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.88	219.76	1474.40	1400.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.74	581.59	1246.82	1493.59	26.67	0.0	0.0	0.0	0.0	0.0	0.0
669.55	527.78	1330.60	1463.08	46.90	0.0	0.0	0.0	0.0	0.0	0.0
669.42	271.80	1580.13	1366.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.34	290.99	872.34	1648.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.03	499.98	1428.36	1433.61	62.08	0.0	0.0	0.0	0.0	0.0	0.0
668.95	281.03	1638.12	1351.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.79	188.00	1920.83	1241.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.59	155.33	772.48	1701.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.29	280.50	1700.38	1338.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.92	125.20	576.35	1790.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.78	161.60	1968.60	1240.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.58	265.38	1762.35	1325.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.86	244.17	1822.31	1314.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.72	366.20	672.38	1773.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.38	312.38	617.91	1800.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.33	725.32	1273.64	1540.65	63.90	0.0	0.0	0.0	0.0	0.0	0.0
666.26	232.88	1287.43	1536.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.16	464.62	1300.37	1533.43	6.57	0.0	0.0	0.0	0.0	0.0	0.0
666.04	485.29	1492.58	1458.62	34.57	0.0	0.0	0.0	0.0	0.0	0.0
665.90	494.97	1253.08	1556.28	14.02	0.0	0.0	0.0	0.0	0.0	0.0
665.78	715.52	1314.01	1534.74	21.08	0.0	0.0	0.0	0.0	0.0	0.0
665.56	705.58	1413.58	1498.30	45.57	0.0	0.0	0.0	0.0	0.0	0.0
665.43	296.93	958.35	1681.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.35	875.72	1195.05	1589.48	59.14	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
665.23	263.78	840.90	1731.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.05	243.09	2058.06	1251.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.90	264.69	1656.42	1413.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.37	264.95	1715.93	1398.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.82	253.37	1776.40	1384.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.26	237.13	1834.66	1370.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.07	103.48	604.76	1862.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.87	321.00	638.50	1852.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.70	222.90	1891.35	1357.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.58	287.14	2000.74	1316.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.34	218.38	1945.88	1342.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.20	318.64	696.26	1840.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.95	669.65	1308.74	1601.81	4.49	0.0	0.0	0.0	0.0	0.0	0.0
661.85	737.15	1087.08	1691.90	32.26	0.0	0.0	0.0	0.0	0.0	0.0
661.73	279.68	1160.59	1664.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.67	655.20	1478.96	1539.09	4.17	0.0	0.0	0.0	0.0	0.0	0.0
661.59	289.43	1103.49	1689.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.54	229.45	1567.92	1505.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.44	562.43	931.39	1760.77	11.98	0.0	0.0	0.0	0.0	0.0	0.0
661.32	542.03	1271.79	1627.37	31.79	0.0	0.0	0.0	0.0	0.0	0.0
661.25	578.18	895.12	1778.15	3.00	0.0	0.0	0.0	0.0	0.0	0.0
661.17	252.37	2058.06	1317.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.99	248.15	1675.48	1472.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.58	248.51	1732.92	1456.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.14	240.07	1791.26	1441.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.68	228.92	1847.95	1426.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.17	226.22	1903.58	1413.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.58	222.56	1960.12	1400.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.23	315.28	1655.50	1528.32	68.73	0.0	0.0	0.0	0.0	0.0	0.0
657.84	441.27	1313.66	1670.32	2.27	0.0	0.0	0.0	0.0	0.0	0.0
657.76	254.23	1241.58	1700.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.56	1613.06	1432.61	1627.50	20.11	0.0	0.0	0.0	0.0	0.0	0.0
657.47	517.64	1357.22	1659.28	25.51	0.0	0.0	0.0	0.0	0.0	0.0
657.39	267.93	722.42	1912.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.33	811.04	1257.30	1701.37	64.12	0.0	0.0	0.0	0.0	0.0	0.0
657.23	816.04	1143.54	1748.24	43.25	0.0	0.0	0.0	0.0	0.0	0.0
657.15	596.29	920.07	1838.38	3.07	0.0	0.0	0.0	0.0	0.0	0.0
656.97	384.13	673.06	1939.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.92	233.67	1749.67	1512.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.59	226.64	1806.18	1496.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.19	215.48	1861.11	1480.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.69	206.28	1914.89	1468.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.06	191.27	1967.11	1458.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
654.32	200.69	2011.36	1453.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.95	209.94	1360.25	1718.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.89	460.73	1452.71	1682.44	12.52	0.0	0.0	0.0	0.0	0.0	0.0
653.83	206.05	1613.57	1619.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.74	459.02	1455.62	1683.94	19.63	0.0	0.0	0.0	0.0	0.0	0.0
653.59	488.05	1441.93	1691.99	24.92	0.0	0.0	0.0	0.0	0.0	0.0
653.46	296.29	693.65	1991.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.38	834.04	1497.63	1673.31	69.82	0.0	0.0	0.0	0.0	0.0	0.0
653.25	297.79	1099.62	1833.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.14	516.43	1361.97	1731.49	39.17	0.0	0.0	0.0	0.0	0.0	0.0
653.02	1478.64	859.76	1932.98	11.50	0.0	0.0	0.0	0.0	0.0	0.0
652.80	199.43	1875.43	1533.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.58	223.40	1403.02	1701.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.41	175.81	1926.56	1519.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
651.80	148.99	1973.66	1511.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.63	187.93	2012.47	1515.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.18	624.27	1550.76	1706.85	12.69	0.0	0.0	0.0	0.0	0.0	0.0
650.08	610.43	1597.54	1690.27	19.48	0.0	0.0	0.0	0.0	0.0	0.0
649.99	220.53	1295.71	1811.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.91	208.64	1786.05	1618.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.79	200.96	1838.74	1599.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.70	258.90	1244.66	1836.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.59	187.88	1890.47	1582.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.52	218.92	2058.06	1516.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.39	238.29	1952.37	1561.16	1.65	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
649.29	292.23	1188.05	1866.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.15	303.02	1127.77	1892.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.03	567.23	1229.38	1846.05	17.98	0.0	0.0	0.0	0.0	0.0	0.0
648.95	307.36	1002.77	1945.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.90	297.99	940.89	1971.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.78	284.80	881.14	1996.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.56	354.02	794.32	2035.15	6.76	0.0	0.0	0.0	0.0	0.0	0.0
648.19	262.66	775.90	2048.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
647.57	390.93	728.21	2078.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.88	254.09	2005.94	1582.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.75	131.41	1364.64	1839.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.57	199.72	1805.45	1667.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.52	1679.13	1582.13	1756.74	26.66	0.0	0.0	0.0	0.0	0.0	0.0
646.44	575.61	1832.98	1658.69	14.79	0.0	0.0	0.0	0.0	0.0	0.0
645.93	252.67	1279.14	1887.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.64	227.28	2058.06	1583.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.28	298.12	1219.30	1922.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.06	298.80	1156.42	1951.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
644.92	609.12	1060.24	1992.04	3.26	0.0	0.0	0.0	0.0	0.0	0.0
644.86	538.66	936.75	2041.90	2.92	0.0	0.0	0.0	0.0	0.0	0.0
644.55	292.24	976.45	2030.64	25.89	0.0	0.0	0.0	0.0	0.0	0.0
644.41	75.37	1342.60	1888.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.75	377.07	809.96	2111.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.69	145.14	718.41	2148.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.42	171.62	1873.69	1694.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.28	346.42	1870.48	1697.78	4.85	0.0	0.0	0.0	0.0	0.0	0.0
643.16	196.88	1776.44	1737.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.04	574.44	1425.49	1878.44	60.60	0.0	0.0	0.0	0.0	0.0	0.0
642.73	203.51	2011.77	1651.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
642.56	564.28	1518.68	1849.80	14.17	0.0	0.0	0.0	0.0	0.0	0.0
642.36	508.49	1548.40	1841.46	8.25	0.0	0.0	0.0	0.0	0.0	0.0
642.31	360.57	1328.84	1929.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.76	214.34	2058.06	1649.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.71	331.30	1253.37	1969.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.63	133.46	877.36	2120.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.40	303.99	1184.48	2002.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.21	518.50	1034.23	2065.33	9.68	0.0	0.0	0.0	0.0	0.0	0.0
641.02	563.03	1019.18	2074.90	3.31	0.0	0.0	0.0	0.0	0.0	0.0
640.62	132.71	1890.52	1735.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.51	117.45	1932.64	1720.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.38	263.34	1803.71	1773.79	4.77	0.0	0.0	0.0	0.0	0.0	0.0
639.94	145.80	1972.25	1714.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.77	195.60	1800.83	1785.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.66	156.57	789.74	2189.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.23	159.53	2016.43	1709.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.17	536.65	1166.33	1989.67	35.70	0.0	0.0	0.0	0.0	0.0	0.0
638.84	105.43	746.83	2220.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.57	63.38	1938.08	1751.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.52	186.88	781.25	2211.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.41	338.32	1726.88	1838.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.23	96.90	1908.31	1769.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.18	699.08	1611.45	1887.94	18.69	0.0	0.0	0.0	0.0	0.0	0.0
638.00	1060.39	1243.21	2037.05	24.62	0.0	0.0	0.0	0.0	0.0	0.0
637.94	65.52	1837.03	1802.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.85	531.97	1571.19	1909.37	38.86	0.0	0.0	0.0	0.0	0.0	0.0
637.70	285.50	1210.38	2055.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.61	609.74	1076.28	2110.12	6.90	0.0	0.0	0.0	0.0	0.0	0.0
637.55	263.67	1071.89	2113.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.07	184.15	1794.77	1834.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.97	175.13	1973.28	1764.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.63	105.77	2017.62	1753.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.33	120.60	1927.59	1793.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.13	491.54	1264.54	2060.70	53.69	0.0	0.0	0.0	0.0	0.0	0.0
635.19	192.45	879.77	2229.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
634.00	4981.33	1356.10	2060.82	64.14	0.0	1253.77	2101.80	0.332	0.308	0.310
632.92	68.49	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.78	69.69	1464.83	1614.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.34	142.52	1063.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
631.92	68.99	1497.72	1601.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.79	1050.45	1151.59	2179.71	37.23	0.0	0.0	0.0	0.0	0.0	0.0
631.71	177.74	1103.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
630.84	215.71	1157.68	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.94	226.74	1217.02	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.16	242.57	1278.40	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
628.24	255.15	1347.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
627.13	258.15	1417.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
625.27	263.80	1489.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.44	260.69	700.11	1244.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.26	259.91	633.57	1271.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
623.54	526.36	1164.76	1062.46	39.78	0.0	0.0	0.0	0.0	0.0	0.0
623.20	123.15	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.69	248.69	1088.51	1090.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.18	253.61	1025.86	1115.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
621.98	791.57	1119.68	1089.06	40.07	0.0	0.0	0.0	0.0	0.0	0.0
621.65	258.40	962.15	1140.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.53	260.72	1705.31	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.19	265.08	568.54	1296.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
619.13	258.58	1776.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
617.77	256.00	1847.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
616.43	253.14	1918.25	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
615.09	250.62	1988.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.84	276.54	503.94	1322.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.76	249.45	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
611.41	161.02	1442.94	1623.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
606.28	324.82	1464.94	1614.83	8.25	0.0	0.0	0.0	0.0	0.0	0.0
603.65	259.38	2058.06	975.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601.18	162.65	1402.55	1700.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	2342.44	563.21	1662.92	14.44	0.0	549.80	1629.15	0.0	1.4626e+06	1.4655e+06
597.60	163.59	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.67	168.95	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.54	159.15	1425.12	1757.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
594.22	319.62	1398.25	1208.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.85	308.42	1424.53	1274.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.00	1267.50	1973.42	1472.63	12.39	0.0	0.0	0.0	0.0	0.0	0.0
589.21	179.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
588.39	252.21	2058.06	1318.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
587.49	151.36	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.66	239.85	2058.06	1387.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.40	217.59	754.26	2143.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
584.37	230.68	2058.06	1455.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
582.84	525.73	1530.30	1777.17	8.25	0.0	0.0	0.0	0.0	0.0	0.0
581.76	223.18	2058.06	1522.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
580.05	272.30	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
579.14	140.62	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.99	216.75	2058.06	1588.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.76	219.62	781.07	2211.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.51	211.84	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.88	215.04	1469.28	1868.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.06	211.78	2058.06	1653.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
575.53	402.32	1868.22	1857.40	12.68	0.0	0.0	0.0	0.0	0.0	0.0
574.03	212.77	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.55	215.12	1495.07	1933.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.80	2093.01	1218.35	2115.53	35.60	0.0	0.0	0.0	0.0	0.0	0.0
572.64	233.77	948.31	2222.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.55	208.30	2058.06	1718.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.41	231.55	877.39	2250.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
569.33	416.93	1865.24	1858.58	18.66	0.0	0.0	0.0	0.0	0.0	0.0
556.69	74.14	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
556.27	154.14	1066.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.85	178.75	1109.10	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.35	207.56	1160.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.00	1115.12	1413.98	1297.56	13.41	0.0	0.0	0.0	0.0	0.0	0.0
554.95	221.56	1218.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
552.02	272.99	1488.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
550.94	535.50	670.98	1256.29	3.41	0.0	0.0	0.0	0.0	0.0	0.0
550.17	269.20	1561.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
549.40	117.63	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.86	264.80	771.44	1216.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.76	266.45	1634.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.64	238.61	1091.40	1089.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.86	245.49	1030.92	1113.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.55	263.69	1707.20	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.06	254.28	968.14	1138.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546.87	381.07	1065.78	1347.21	25.93	0.0	0.0	0.0	0.0	0.0	0.0
546.44	260.37	1779.17	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.52	262.96	571.29	1295.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.38	521.94	1334.57	1051.22	50.64	0.0	0.0	0.0	0.0	0.0	0.0
544.35	250.80	1920.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
543.33	246.16	1989.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
542.32	244.43	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
539.81	259.78	505.18	1322.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
538.16	179.27	1403.05	1701.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
537.08	185.55	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.28	133.62	1871.67	1856.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
532.00	614.25	507.87	1523.60	14.44	0.0	0.0	0.0	0.0	0.0	0.0
529.80	247.65	2058.06	975.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
526.89	185.77	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
525.93	117.02	1910.01	1840.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
523.69	233.75	754.10	2143.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
519.13	605.14	1519.58	1781.43	8.25	0.0	0.0	0.0	0.0	0.0	0.0
518.19	277.59	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
517.85	137.89	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517.22	722.05	1658.19	1622.73	63.85	0.0	0.0	0.0	0.0	0.0	0.0
516.31	229.38	2058.06	1460.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
515.00	675.44	1941.28	1584.23	12.39	0.0	0.0	0.0	0.0	0.0	0.0
514.87	210.65	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
514.81	219.65	2058.06	1528.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.36	213.38	1494.44	1931.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.03	210.94	2058.06	1594.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
511.60	2557.91	1162.97	2137.53	35.60	0.0	0.0	0.0	0.0	0.0	0.0
511.37	238.73	1466.98	1862.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.94	203.29	2058.06	1658.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.18	211.08	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
509.33	988.27	595.15	1743.34	8.97	0.0	0.0	0.0	0.0	0.0	0.0
508.80	439.77	1868.22	1857.40	12.68	0.0	0.0	0.0	0.0	0.0	0.0
507.93	197.57	2058.06	1720.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507.73	170.78	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
505.47	324.85	1399.30	1211.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
504.67	416.19	1863.17	1859.41	18.66	0.0	0.0	0.0	0.0	0.0	0.0
503.22	301.29	1425.36	1277.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
501.00	146.11	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.74	68.76	1875.48	1854.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.46	74.81	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.21	154.94	1066.89	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.95	180.69	1109.50	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.65	209.66	1162.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.42	220.36	1219.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.33	828.39	1427.56	1400.74	13.41	0.0	0.0	0.0	0.0	0.0	0.0
477.82	284.44	1409.85	1718.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
477.65	278.03	1488.13	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.35	273.78	1562.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.11	269.28	710.31	1240.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.67	272.29	642.40	1267.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.60	111.76	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.32	270.51	1636.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.78	262.90	776.93	1214.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.46	267.27	1709.54	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.18	236.10	1036.81	1110.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.02	224.57	1093.76	1088.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.68	263.21	1782.32	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.44	252.45	974.62	1135.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.96	517.52	1379.12	1035.02	47.22	0.0	0.0	0.0	0.0	0.0	0.0
472.61	267.41	574.24	1294.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.25	247.95	1924.23	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
471.90	363.97	1127.26	1381.90	49.86	0.0	0.0	0.0	0.0	0.0	0.0
471.70	117.36	1910.50	1840.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.56	239.49	1991.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
470.88	238.57	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
469.41	202.49	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467.57	257.92	505.29	1322.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
464.00	614.16	508.03	1523.98	14.44	0.0	0.0	0.0	0.0	0.0	0.0
461.81	192.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.99	237.48	754.04	2143.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.27	233.30	2058.06	975.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455.42	543.32	1528.13	1778.03	8.25	0.0	0.0	0.0	0.0	0.0	0.0
455.15	280.92	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
455.05	140.12	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.52	229.10	780.93	2211.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.06	188.06	1471.53	1874.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452.91	201.10	1495.97	1935.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
451.77	207.96	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.69	226.02	875.58	2251.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.54	230.97	945.05	2224.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.40	2099.17	1216.80	2116.15	35.60	0.0	0.0	0.0	0.0	0.0	0.0
450.22	457.64	2058.06	1430.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
449.53	211.15	2058.06	1535.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.57	201.35	2058.06	1600.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.14	245.12	2058.06	1321.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
447.26	394.44	1852.10	1769.68	19.89	0.0	0.0	0.0	0.0	0.0	0.0
445.02	180.27	2058.06	1723.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	1728.18	1923.78	1644.79	18.66	0.0	1963.11	1856.31	0.217	0.368	3.505
424.02	67.10	1913.18	1839.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
418.67	988.27	595.15	1743.34	8.97	0.0	0.0	0.0	0.0	0.0	0.0
417.87	189.84	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
416.73	335.23	1401.97	1218.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
415.61	282.59	1427.01	1281.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414.50	135.88	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.11	92.55	1874.77	1854.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
406.17	380.30	1412.87	1726.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.11	215.93	1052.69	907.06	1.89	0.0	0.0	0.0	0.0	0.0	0.0
404.00	180.24	1104.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.85	222.25	1160.39	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.73	224.25	1220.21	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.67	849.79	1426.74	1407.68	13.41	0.0	0.0	0.0	0.0	0.0	0.0
402.89	280.66	1488.47	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402.24	549.20	1143.36	1071.30	42.43	0.0	0.0	0.0	0.0	0.0	0.0
401.87	274.15	645.40	1266.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.80	100.87	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.71	274.55	1638.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.40	204.78	1099.38	1086.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.34	265.04	782.10	1212.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.26	271.68	1712.43	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.98	229.48	1045.41	1107.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.86	268.03	1786.38	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.49	261.89	1859.44	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.29	269.23	576.08	1293.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.13	505.78	1371.57	1050.99	54.07	0.0	0.0	0.0	0.0	0.0	0.0
399.90	261.30	916.43	1158.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.78	482.28	1460.89	1026.01	50.62	0.0	0.0	0.0	0.0	0.0	0.0
399.44	230.89	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.12	206.65	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
398.40	258.73	506.57	1321.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
396.00	615.86	507.86	1523.57	14.44	0.0	0.0	0.0	0.0	0.0	0.0
395.20	195.36	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
395.15	197.19	1471.86	1874.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
393.60	238.73	754.02	2143.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392.42	220.16	2058.06	975.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
391.71	609.99	1519.23	1781.57	8.25	0.0	0.0	0.0	0.0	0.0	0.0
391.65	423.14	1528.76	1777.78	4.12	0.0	0.0	0.0	0.0	0.0	0.0
391.35	230.36	780.90	2210.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
390.86	202.88	1496.26	1936.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.65	205.39	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
389.20	2556.25	1161.88	2137.96	35.60	0.0	0.0	0.0	0.0	0.0	0.0
388.08	210.70	2058.06	1474.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.93	231.51	2058.06	1403.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.84	201.78	2058.06	1542.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.44	193.66	2058.06	1607.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.21	197.51	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
386.85	422.70	2058.06	1468.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
385.81	161.81	2058.06	1727.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384.00	2018.56	1941.10	1585.50	18.66	0.0	1957.35	1855.12	0.206	0.154	4.707
328.00	1.876e+05	1300.09	1513.79	82.61	0.0	1388.66	1256.09	0.820	0.172	0.438
327.92	289.07	1442.58	1801.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322.58	553.23	1412.62	1725.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.00	1010.16	2058.06	1616.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
255.15	246.38	1998.89	1805.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.00	1693.16	979.01	1884.36	30.01	0.0	0.0	0.0	0.0	0.0	0.0
248.97	270.22	1938.69	1829.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.95	303.04	679.61	1576.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.69	311.70	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
245.99	573.09	1843.55	1867.20	3.16	0.0	0.0	0.0	0.0	0.0	0.0
244.12	315.79	652.46	1508.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.03	292.93	1749.79	1904.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.66	394.73	1062.00	1179.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.61	324.38	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.23	385.55	2058.06	1325.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.64	378.11	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.57	396.87	973.36	2072.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.00	3734.62	1408.22	1664.89	65.90	0.0	1628.78	1789.87	0.104	4.133	2.042
240.39	328.39	1867.36	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.08	343.85	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.77	329.95	1792.24	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.16	331.42	1717.14	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.10	346.46	770.27	1379.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.53	332.68	1642.08	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
237.85	683.01	1196.64	1134.18	36.20	0.0	0.0	0.0	0.0	0.0	0.0
237.60	861.26	1581.16	1207.16	45.31	0.0	0.0	0.0	0.0	0.0	0.0
236.92	333.00	1492.62	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.70	354.16	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.27	363.49	1234.52	1471.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.06	326.99	1419.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234.32	389.38	1181.84	1407.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232.21	354.71	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.35	1154.10	1551.92	1340.08	46.60	0.0	0.0	0.0	0.0	0.0	0.0
230.42	362.27	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.10	325.13	1348.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.12	351.25	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228.78	435.41	1124.11	1338.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227.95	1347.88	1400.23	1213.78	10.78	0.0	0.0	0.0	0.0	0.0	0.0
225.10	380.48	1412.34	1725.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.00	5852.58	1409.33	1251.38	51.53	0.0	1431.17	1112.32	0.763	0.078	0.483
190.00	1532.51	2058.06	1611.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.00	661.95	992.27	1892.18	30.01	0.0	0.0	0.0	0.0	0.0	0.0
172.44	290.23	1997.53	1806.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.26	311.28	679.37	1576.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.91	318.15	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.77	291.25	1936.29	1830.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.90	296.60	1873.73	1855.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.92	392.15	2058.06	1323.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.84	321.45	652.11	1507.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.52	329.65	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.32	296.26	1810.61	1880.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.34	296.90	1748.47	1904.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.00	5136.76	1348.90	1685.30	65.90	0.0	1635.23	1789.26	0.082	6.756	2.167
153.16	324.77	1867.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.74	341.23	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.31	324.67	1793.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.47	665.48	1232.60	1149.30	47.41	0.0	0.0	0.0	0.0	0.0	0.0
150.61	323.97	1643.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.27	835.24	1581.16	1207.16	45.31	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
149.91	340.39	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.71	322.74	1569.48	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.61	319.80	1495.42	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.69	338.17	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.42	352.53	1233.37	1469.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.34	313.66	1422.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.71	370.39	1179.71	1405.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.99	814.27	1584.89	1202.08	46.60	0.0	0.0	0.0	0.0	0.0	0.0
143.89	334.03	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.73	329.89	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.29	302.20	1349.95	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.46	385.49	1122.30	1336.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.15	316.29	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.26	1207.38	1400.13	1213.54	10.76	0.0	0.0	0.0	0.0	0.0	0.0
137.48	364.32	1411.20	1722.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.67	4043.32	1385.64	1263.08	51.53	0.0	0.0	0.0	0.0	0.0	0.0
100.32	198.40	1122.05	2013.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.00	2193.28	963.68	1871.31	30.01	0.0	0.0	0.0	0.0	0.0	0.0
84.98	688.93	2058.06	1748.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.92	387.14	2058.06	1648.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.71	426.86	2058.06	1568.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.91	434.43	2058.06	1486.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.93	431.34	2058.06	1403.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.40	348.25	679.70	1576.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.10	355.30	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.18	320.67	1996.61	1806.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.13	308.74	1934.84	1830.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.22	342.62	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.00	335.06	652.21	1507.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.38	304.09	1872.63	1855.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.00	300.27	1809.96	1880.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.80	381.10	2058.06	1317.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.74	399.84	1062.00	1196.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68.48	296.66	1747.36	1905.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.00	4051.24	1407.34	1672.26	65.90	0.0	1635.23	1789.26	0.082	5.377	2.439
66.48	410.65	973.46	2072.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.42	321.33	1868.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.36	391.02	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.14	338.87	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.84	319.74	1794.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.26	654.35	1231.86	1149.99	47.48	0.0	0.0	0.0	0.0	0.0	0.0
64.76	823.25	1581.15	1207.16	45.31	0.0	0.0	0.0	0.0	0.0	0.0
64.68	316.24	1645.65	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.28	333.16	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.08	313.93	1571.57	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.39	310.71	1497.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.27	336.37	1233.86	1470.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.12	358.31	1181.26	1407.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.01	328.56	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.42	306.01	1424.19	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.97	799.50	1583.13	1201.28	46.60	0.0	0.0	0.0	0.0	0.0	0.0
61.11	320.45	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.81	297.04	1351.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.75	318.21	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.59	380.86	1123.06	1337.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.11	304.80	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59.74	1163.89	1400.22	1213.76	10.75	0.0	0.0	0.0	0.0	0.0	0.0
58.33	3957.57	1387.69	1261.01	51.53	0.0	0.0	0.0	0.0	0.0	0.0
53.98	332.16	1407.54	1713.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	4.607e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.715	0.149	0.273	1827.55	0.4	3.751e+05	81.4	671.28	0.1	0.0	0.0
2	7.147	0.140	0.273	3.542e+05	76.9	239.95	5.21e-02	2862.21	0.6	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
3	9.449	0.106	0.242	4723.63	1.0	651.81	0.1	3.757e+04	8.2	0.0	0.0
4	9.743	0.103	0.238	3.343e+04	7.3	4988.93	1.1	6.200e+04	13.5	0.0	0.0
5	14.147	0.071	0.199	1.646e+04	3.6	1600.22	0.3	2.355e+05	51.1	0.0	0.0
6	15.043	0.066	0.194	1.866e+04	4.1	3.354e+04	7.3	2.456e+04	5.3	0.0	0.0
7	16.722	0.060	0.186	1.792e+04	3.9	1.424e+04	3.1	4.018e+04	8.7	0.0	0.0
8	17.144	0.058	0.185	6385.46	1.4	8655.07	1.9	1.389e+04	3.0	0.0	0.0
9	19.363	0.052	0.177	941.00	0.2	1.634e+04	3.5	1999.74	0.4	0.0	0.0
10	20.756	0.048	0.172	1701.15	0.4	2514.60	0.5	8552.06	1.9	0.0	0.0
11	23.993	0.042	0.165	2843.84	0.6	1059.42	0.2	2.458e+04	5.3	0.0	0.0
12	27.308	0.037	0.158	384.04	8.34e-02	714.73	0.2	1035.75	0.2	0.0	0.0
13	37.982	0.026	0.146	564.41	0.1	638.46	0.1	4289.31	0.9	0.0	0.0
14	39.009	0.026	0.145	114.27	2.48e-02	264.74	5.75e-02	2395.15	0.5	0.0	0.0
15	46.377	0.022	0.140	395.37	8.58e-02	57.28	1.24e-02	213.28	4.63e-02	0.0	0.0
Risulta				4.605e+05		4.606e+05		4.603e+05			
In percentuale				99.96		99.97		99.92			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.273 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.148 sec.
			numero di modi considerati: 15
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
790.00	897.50	1497.15	1698.89	-11.48	0.0	1496.46	1696.46	1.152	0.006	0.023
745.85	520.56	1464.30	1615.09	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
744.63	132.33	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.85	134.16	1402.73	1700.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
742.20	519.60	1517.03	1749.35	-9.32	0.0	0.0	0.0	0.0	0.0	0.0
741.31	217.84	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
740.99	109.93	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
709.15	30.09	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
708.45	60.87	1057.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
707.75	140.79	1087.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
706.28	203.10	1151.07	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.80	187.17	1214.73	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
704.17	95.25	1108.43	959.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.80	160.93	1152.74	948.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
703.35	381.64	1259.61	914.38	-3.61	0.0	0.0	0.0	0.0	0.0	0.0
701.67	763.76	1427.69	1390.04	-9.87	0.0	0.0	0.0	0.0	0.0	0.0
700.91	157.37	1249.36	959.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.83	266.76	1198.79	981.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.58	139.99	1129.45	1012.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700.02	303.81	1420.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.35	199.05	1301.63	965.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.26	132.10	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
699.13	150.58	1349.84	950.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.49	129.53	1269.99	992.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.37	304.92	1491.03	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.26	91.82	1239.68	1008.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
698.05	133.29	1403.15	1701.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.00	3688.11	762.27	1220.03	-37.23	0.0	0.0	0.0	0.0	0.0	0.0
696.81	134.56	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.73	288.08	1561.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.37	235.57	1205.81	1054.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
696.09	463.86	1400.35	982.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
695.75	136.14	1425.26	1757.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.39	419.61	1296.93	1035.07	-3.73	0.0	0.0	0.0	0.0	0.0	0.0
695.25	156.23	1288.42	1040.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
695.08	276.34	1632.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.47	379.35	1487.82	974.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
694.36	255.29	1525.77	1778.97	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
693.67	499.45	877.79	1230.98	-3.16	0.0	0.0	0.0	0.0	0.0	0.0
693.58	499.13	876.93	1232.60	-9.47	0.0	0.0	0.0	0.0	0.0	0.0
693.49	250.15	721.35	1296.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.43	269.22	1703.67	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
693.25	261.21	1036.77	1175.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.97	589.49	1163.94	1129.15	-45.04	0.0	0.0	0.0	0.0	0.0	0.0
692.62	296.87	1176.16	1130.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
692.19	701.10	1046.28	1189.49	-39.47	0.0	0.0	0.0	0.0	0.0	0.0
691.78	453.85	1562.43	991.61	-25.35	0.0	0.0	0.0	0.0	0.0	0.0
691.55	522.03	1590.70	1311.39	-7.45	0.0	0.0	0.0	0.0	0.0	0.0
691.49	199.01	1308.75	1097.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.43	254.06	1348.10	1082.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.28	374.30	1420.14	1056.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
691.08	320.46	613.76	1380.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.69	98.30	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.56	540.69	544.42	1416.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.38	848.21	1182.75	1166.23	-28.42	0.0	0.0	0.0	0.0	0.0	0.0
690.33	527.47	835.06	1305.49	-3.12	0.0	0.0	0.0	0.0	0.0	0.0
690.27	242.92	742.53	1342.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
690.14	459.50	1502.59	1043.04	-40.04	0.0	0.0	0.0	0.0	0.0	0.0
690.05	461.52	1306.43	1122.79	-50.93	0.0	0.0	0.0	0.0	0.0	0.0
689.84	612.77	480.39	1454.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.78	119.67	1087.82	1214.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.43	143.48	655.70	1391.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
689.11	324.72	1570.74	1033.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.49	541.22	1848.35	933.79	-6.98	0.0	0.0	0.0	0.0	0.0	0.0
688.24	424.69	968.13	1287.97	-29.42	0.0	0.0	0.0	0.0	0.0	0.0
687.94	214.49	1245.83	1182.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.83	301.69	1642.31	1027.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.73	258.46	1150.40	1224.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.65	207.16	1288.75	1170.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.46	344.51	1348.69	1150.22	-2.00	0.0	0.0	0.0	0.0	0.0	0.0
687.36	213.48	1378.79	1139.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.31	80.80	462.69	1504.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
687.15	320.43	1436.74	1120.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.99	551.44	1358.16	1154.77	-58.64	0.0	0.0	0.0	0.0	0.0	0.0
686.84	310.77	1987.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
686.71	481.96	1032.75	1288.51	-2.71	0.0	0.0	0.0	0.0	0.0	0.0
686.65	482.42	849.59	1362.41	-11.80	0.0	0.0	0.0	0.0	0.0	0.0
686.56	570.14	1294.49	1187.09	-41.16	0.0	0.0	0.0	0.0	0.0	0.0
686.47	552.90	798.48	1385.55	-2.97	0.0	0.0	0.0	0.0	0.0	0.0
686.34	333.92	1508.16	1105.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.27	264.31	1779.78	1016.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
685.19	534.44	1774.46	1019.28	-23.89	0.0	0.0	0.0	0.0	0.0	0.0
685.09	260.27	1912.47	966.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.73	449.41	651.04	1473.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.33	505.36	580.40	1508.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.11	299.07	1650.18	1087.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
684.01	238.12	1846.37	1011.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.94	607.95	514.95	1541.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.85	234.34	1227.54	1259.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.61	214.76	1270.09	1247.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.51	243.88	1180.81	1284.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.36	215.75	1313.04	1234.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
683.16	437.53	1236.11	1268.59	-11.06	0.0	0.0	0.0	0.0	0.0	0.0
682.97	1025.40	1271.44	1257.70	-49.64	0.0	0.0	0.0	0.0	0.0	0.0
682.92	254.71	1084.64	1332.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.70	603.36	1262.49	1265.32	-21.37	0.0	0.0	0.0	0.0	0.0	0.0
682.58	290.92	972.70	1382.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.45	1266.16	1323.58	1245.84	-74.61	0.0	0.0	0.0	0.0	0.0	0.0
682.37	309.82	851.72	1434.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
682.16	325.65	1523.68	1171.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
681.77	267.45	1784.17	1074.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.27	313.70	1592.25	1159.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
681.07	430.85	2028.56	989.33	-5.52	0.0	0.0	0.0	0.0	0.0	0.0
680.52	245.14	1846.92	1070.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
680.26	299.69	1660.29	1149.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.47	224.04	1253.23	1324.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
679.28	448.62	1532.15	1217.06	-34.70	0.0	0.0	0.0	0.0	0.0	0.0
679.23	500.91	1541.38	1214.37	-21.56	0.0	0.0	0.0	0.0	0.0	0.0
679.05	256.78	1162.15	1367.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.98	218.44	1338.66	1299.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.80	273.01	1109.85	1392.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.73	296.07	1382.11	1285.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.59	285.02	1054.97	1418.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.48	320.48	1424.00	1273.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.40	297.14	997.56	1444.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.34	499.70	1652.54	1185.44	-23.80	0.0	0.0	0.0	0.0	0.0	0.0
678.23	308.84	938.50	1470.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
678.09	592.10	1291.42	1332.81	-45.70	0.0	0.0	0.0	0.0	0.0	0.0
677.99	856.31	736.12	1554.98	-6.53	0.0	0.0	0.0	0.0	0.0	0.0
677.93	1105.16	969.25	1463.97	-69.28	0.0	0.0	0.0	0.0	0.0	0.0
677.86	309.54	1542.04	1237.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.61	82.62	519.52	1647.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.29	588.88	553.93	1639.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
677.17	305.52	1606.63	1223.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
676.94	531.48	1963.67	1085.32	-10.27	0.0	0.0	0.0	0.0	0.0	0.0
676.30	296.33	1672.41	1212.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.84	221.25	1908.61	1126.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.33	282.71	1737.29	1203.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
675.09	221.62	1278.92	1389.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.94	241.06	1235.31	1409.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.85	420.63	1634.68	1252.11	-32.04	0.0	0.0	0.0	0.0	0.0	0.0
674.76	260.83	1187.57	1431.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
674.56	494.83	1236.34	1414.96	-11.43	0.0	0.0	0.0	0.0	0.0	0.0
674.36	850.36	1419.62	1346.18	-35.96	0.0	0.0	0.0	0.0	0.0	0.0
674.17	299.09	1023.69	1506.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.99	724.59	1411.07	1355.83	-52.18	0.0	0.0	0.0	0.0	0.0	0.0
673.94	317.42	1503.21	1319.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.75	317.91	904.13	1560.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.65	289.35	1560.21	1302.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.49	328.29	842.60	1589.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.27	241.80	1860.56	1189.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.06	294.90	1622.14	1287.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.98	617.17	1317.20	1410.07	-63.83	0.0	0.0	0.0	0.0	0.0	0.0
672.77	126.78	547.93	1719.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.30	290.27	1685.98	1275.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
672.24	214.30	1915.33	1185.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.96	459.91	645.58	1694.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.84	390.76	585.92	1720.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.51	502.89	719.34	1672.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.44	276.24	1749.57	1264.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
671.19	197.01	1965.77	1183.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.71	220.22	1304.61	1453.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.59	237.82	1261.57	1472.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.51	255.54	1811.53	1255.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.46	470.79	1274.12	1470.09	-6.63	0.0	0.0	0.0	0.0	0.0	0.0
670.30	275.52	1162.81	1517.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.24	213.76	1389.46	1428.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
670.12	495.76	1484.79	1392.29	-45.13	0.0	0.0	0.0	0.0	0.0	0.0
670.05	193.72	1432.17	1414.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.94	296.65	1050.49	1567.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.88	219.76	1474.40	1400.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.74	581.59	1246.82	1493.59	-26.67	0.0	0.0	0.0	0.0	0.0	0.0
669.55	527.78	1330.60	1463.08	-46.90	0.0	0.0	0.0	0.0	0.0	0.0
669.42	271.80	1580.13	1366.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.34	290.99	872.34	1648.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
669.03	499.98	1428.36	1433.61	-62.08	0.0	0.0	0.0	0.0	0.0	0.0
668.95	281.03	1638.12	1351.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.79	188.00	1920.83	1241.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
668.59	155.33	772.48	1701.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
668.29	280.50	1700.38	1338.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.92	125.20	576.35	1790.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.78	161.60	1968.60	1240.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
667.58	265.38	1762.35	1325.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.86	244.17	1822.31	1314.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.72	366.20	672.38	1773.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.38	312.38	617.91	1800.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.33	725.32	1273.64	1540.65	-63.90	0.0	0.0	0.0	0.0	0.0	0.0
666.26	232.88	1287.43	1536.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
666.16	464.62	1300.37	1533.43	-6.57	0.0	0.0	0.0	0.0	0.0	0.0
666.04	485.29	1492.58	1458.62	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
665.90	494.97	1253.08	1556.28	-14.02	0.0	0.0	0.0	0.0	0.0	0.0
665.78	715.52	1314.01	1534.74	-21.08	0.0	0.0	0.0	0.0	0.0	0.0
665.56	705.58	1413.58	1498.30	-45.57	0.0	0.0	0.0	0.0	0.0	0.0
665.43	296.93	958.35	1681.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.35	875.72	1195.05	1589.48	-59.14	0.0	0.0	0.0	0.0	0.0	0.0
665.23	263.78	840.90	1731.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
665.05	243.09	2058.06	1251.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.90	264.69	1656.42	1413.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.37	264.95	1715.93	1398.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.82	253.37	1776.40	1384.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.26	237.13	1834.66	1370.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
663.07	103.48	604.76	1862.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.87	321.00	638.50	1852.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.70	222.90	1891.35	1357.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.58	287.14	2000.74	1316.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.34	218.38	1945.88	1342.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
662.20	318.64	696.26	1840.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.95	669.65	1308.74	1601.81	-4.49	0.0	0.0	0.0	0.0	0.0	0.0
661.85	737.15	1087.08	1691.90	-32.26	0.0	0.0	0.0	0.0	0.0	0.0
661.73	279.68	1160.59	1664.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.67	655.20	1478.96	1539.09	-4.17	0.0	0.0	0.0	0.0	0.0	0.0
661.59	289.43	1103.49	1689.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.54	229.45	1567.92	1505.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
661.44	562.43	931.39	1760.77	-11.98	0.0	0.0	0.0	0.0	0.0	0.0
661.32	542.03	1271.79	1627.37	-31.79	0.0	0.0	0.0	0.0	0.0	0.0
661.25	578.18	895.12	1778.15	-3.00	0.0	0.0	0.0	0.0	0.0	0.0
661.17	252.37	2058.06	1317.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.99	248.15	1675.48	1472.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.58	248.51	1732.92	1456.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
660.14	240.07	1791.26	1441.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.68	228.92	1847.95	1426.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.17	226.22	1903.58	1413.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.58	222.56	1960.12	1400.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.23	315.28	1655.50	1528.32	-68.73	0.0	0.0	0.0	0.0	0.0	0.0
657.84	441.27	1313.66	1670.32	-2.27	0.0	0.0	0.0	0.0	0.0	0.0
657.76	254.23	1241.58	1700.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.56	1613.06	1432.61	1627.50	-20.11	0.0	0.0	0.0	0.0	0.0	0.0
657.47	517.64	1357.22	1659.28	-25.51	0.0	0.0	0.0	0.0	0.0	0.0
657.39	267.93	722.42	1912.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
657.33	811.04	1257.30	1701.37	-64.12	0.0	0.0	0.0	0.0	0.0	0.0
657.23	816.04	1143.54	1748.24	-43.25	0.0	0.0	0.0	0.0	0.0	0.0
657.15	596.29	920.07	1838.38	-3.07	0.0	0.0	0.0	0.0	0.0	0.0
656.97	384.13	673.06	1939.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.92	233.67	1749.67	1512.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.59	226.64	1806.18	1496.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
656.19	215.48	1861.11	1480.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.69	206.28	1914.89	1468.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
655.06	191.27	1967.11	1458.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
654.32	200.69	2011.36	1453.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.95	209.94	1360.25	1718.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.89	460.73	1452.71	1682.44	-12.52	0.0	0.0	0.0	0.0	0.0	0.0
653.83	206.05	1613.57	1619.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.74	459.02	1455.62	1683.94	-19.63	0.0	0.0	0.0	0.0	0.0	0.0
653.59	488.05	1441.93	1691.99	-24.92	0.0	0.0	0.0	0.0	0.0	0.0
653.46	296.29	693.65	1991.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.38	834.04	1497.63	1673.31	-69.82	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
653.25	297.79	1099.62	1833.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.14	516.43	1361.97	1731.49	-39.17	0.0	0.0	0.0	0.0	0.0	0.0
653.02	1478.64	859.76	1932.98	-11.50	0.0	0.0	0.0	0.0	0.0	0.0
652.80	199.43	1875.43	1533.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.58	223.40	1403.02	1701.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
652.41	175.81	1926.56	1519.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
651.80	148.99	1973.66	1511.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.63	187.93	2012.47	1515.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
650.18	624.27	1550.76	1706.85	-12.69	0.0	0.0	0.0	0.0	0.0	0.0
650.08	610.43	1597.54	1690.27	-19.48	0.0	0.0	0.0	0.0	0.0	0.0
649.99	220.53	1295.71	1811.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.91	208.64	1786.05	1618.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.79	200.96	1838.74	1599.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.70	258.90	1244.66	1836.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.59	187.88	1890.47	1582.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.52	218.92	2058.06	1516.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.39	238.29	1952.37	1561.16	-1.65	0.0	0.0	0.0	0.0	0.0	0.0
649.29	292.23	1188.05	1866.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.15	303.02	1127.77	1892.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
649.03	567.23	1229.38	1846.05	-17.98	0.0	0.0	0.0	0.0	0.0	0.0
648.95	307.36	1002.77	1945.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.90	297.99	940.89	1971.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.78	284.80	881.14	1996.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
648.56	354.02	794.32	2035.15	-6.76	0.0	0.0	0.0	0.0	0.0	0.0
648.19	262.66	775.90	2048.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
647.57	390.93	728.21	2078.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.88	254.09	2005.94	1582.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.75	131.41	1364.64	1839.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.57	199.72	1805.45	1667.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.52	1679.13	1582.13	1756.74	-26.66	0.0	0.0	0.0	0.0	0.0	0.0
646.44	575.61	1832.98	1658.69	-14.79	0.0	0.0	0.0	0.0	0.0	0.0
645.93	252.67	1279.14	1887.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.64	227.28	2058.06	1583.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.28	298.12	1219.30	1922.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
645.06	298.80	1156.42	1951.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
644.92	609.12	1060.24	1992.04	-3.26	0.0	0.0	0.0	0.0	0.0	0.0
644.86	538.66	936.75	2041.90	-2.92	0.0	0.0	0.0	0.0	0.0	0.0
644.55	292.24	976.45	2030.64	-25.89	0.0	0.0	0.0	0.0	0.0	0.0
644.41	75.37	1342.60	1888.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.75	377.07	809.96	2111.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.69	145.14	718.41	2148.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.42	171.62	1873.69	1694.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.28	346.42	1870.48	1697.78	-4.85	0.0	0.0	0.0	0.0	0.0	0.0
643.16	196.88	1776.44	1737.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
643.04	574.44	1425.49	1878.44	-60.60	0.0	0.0	0.0	0.0	0.0	0.0
642.73	203.51	2011.77	1651.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
642.56	564.28	1518.68	1849.80	-14.17	0.0	0.0	0.0	0.0	0.0	0.0
642.36	508.49	1548.40	1841.46	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
642.31	360.57	1328.84	1929.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.76	214.34	2058.06	1649.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.71	331.30	1253.37	1969.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.63	133.46	877.36	2120.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.40	303.99	1184.48	2002.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
641.21	518.50	1034.23	2065.33	-9.68	0.0	0.0	0.0	0.0	0.0	0.0
641.02	563.03	1019.18	2074.90	-3.31	0.0	0.0	0.0	0.0	0.0	0.0
640.62	132.71	1890.52	1735.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.51	117.45	1932.64	1720.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.38	263.34	1803.71	1773.79	-4.77	0.0	0.0	0.0	0.0	0.0	0.0
639.94	145.80	1972.25	1714.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.77	195.60	1800.83	1785.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.66	156.57	789.74	2189.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.23	159.53	2016.43	1709.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
639.17	536.65	1166.33	1989.67	-35.70	0.0	0.0	0.0	0.0	0.0	0.0
638.84	105.43	746.83	2220.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.57	63.38	1938.08	1751.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.52	186.88	781.25	2211.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.41	338.32	1726.88	1838.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
638.23	96.90	1908.31	1769.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
638.18	699.08	1611.45	1887.94	-18.69	0.0	0.0	0.0	0.0	0.0	0.0
638.00	1060.39	1243.21	2037.05	-24.62	0.0	0.0	0.0	0.0	0.0	0.0
637.94	65.52	1837.03	1802.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.85	531.97	1571.19	1909.37	-38.86	0.0	0.0	0.0	0.0	0.0	0.0
637.70	285.50	1210.38	2055.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.61	609.74	1076.28	2110.12	-6.90	0.0	0.0	0.0	0.0	0.0	0.0
637.55	263.67	1071.89	2113.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
637.07	184.15	1794.77	1834.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.97	175.13	1973.28	1764.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.63	105.77	2017.62	1753.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.33	120.60	1927.59	1793.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
636.13	491.54	1264.54	2060.70	-53.69	0.0	0.0	0.0	0.0	0.0	0.0
635.19	192.45	879.77	2229.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
634.00	4981.33	1356.10	2060.82	-64.14	0.0	1253.77	2101.80	0.332	0.308	0.310
632.92	68.49	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.78	69.69	1464.83	1614.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
632.34	142.52	1063.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.92	68.99	1497.72	1601.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
631.79	1050.45	1151.59	2179.71	-37.23	0.0	0.0	0.0	0.0	0.0	0.0
631.71	177.74	1103.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
630.84	215.71	1157.68	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.94	226.74	1217.02	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
629.16	242.57	1278.40	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
628.24	255.15	1347.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
627.13	258.15	1417.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
625.27	263.80	1489.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.44	260.69	700.11	1244.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
624.26	259.91	633.57	1271.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
623.54	526.36	1164.76	1062.46	-39.78	0.0	0.0	0.0	0.0	0.0	0.0
623.20	123.15	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.69	248.69	1088.51	1090.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
622.18	253.61	1025.86	1115.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
621.98	791.57	1119.68	1089.06	-40.07	0.0	0.0	0.0	0.0	0.0	0.0
621.65	258.40	962.15	1140.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.53	260.72	1705.31	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
620.19	265.08	568.54	1296.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
619.13	258.58	1776.69	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
617.77	256.00	1847.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
616.43	253.14	1918.25	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
615.09	250.62	1988.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.84	276.54	503.94	1322.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.76	249.45	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
611.41	161.02	1442.94	1623.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
606.28	324.82	1464.94	1614.83	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
603.65	259.38	2058.06	975.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601.18	162.65	1402.55	1700.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	2342.44	563.21	1662.92	-14.44	0.0	549.80	1629.15	0.0	1.4626e+06	1.4655e+06
597.60	163.59	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.67	168.95	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
596.54	159.15	1425.12	1757.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
594.22	319.62	1398.25	1208.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.85	308.42	1424.53	1274.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
590.00	1267.50	1973.42	1472.63	-12.39	0.0	0.0	0.0	0.0	0.0	0.0
589.21	179.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
588.39	252.21	2058.06	1318.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
587.49	151.36	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.66	239.85	2058.06	1387.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
586.40	217.59	754.26	2143.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
584.37	230.68	2058.06	1455.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
582.84	525.73	1530.30	1777.17	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
581.76	223.18	2058.06	1522.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
580.05	272.30	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
579.14	140.62	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.99	216.75	2058.06	1588.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.76	219.62	781.07	2211.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
578.51	211.84	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.88	215.04	1469.28	1868.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
576.06	211.78	2058.06	1653.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
575.53	402.32	1868.22	1857.40	-12.68	0.0	0.0	0.0	0.0	0.0	0.0
574.03	212.77	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.55	215.12	1495.07	1933.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.80	2093.01	1218.35	2115.53	-35.60	0.0	0.0	0.0	0.0	0.0	0.0
572.64	233.77	948.31	2222.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.55	208.30	2058.06	1718.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
572.41	231.55	877.39	2250.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
569.33	416.93	1865.24	1858.58	-18.66	0.0	0.0	0.0	0.0	0.0	0.0
556.69	74.14	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
556.27	154.14	1066.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.85	178.75	1109.10	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.35	207.56	1160.84	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
555.00	1115.12	1413.98	1297.56	-13.41	0.0	0.0	0.0	0.0	0.0	0.0
554.95	221.56	1218.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
552.02	272.99	1488.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
550.94	535.50	670.98	1256.29	-3.41	0.0	0.0	0.0	0.0	0.0	0.0
550.17	269.20	1561.79	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
549.40	117.63	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.86	264.80	771.44	1216.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.76	266.45	1634.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
548.64	238.61	1091.40	1089.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.86	245.49	1030.92	1113.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.55	263.69	1707.20	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
547.06	254.28	968.14	1138.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546.87	381.07	1065.78	1347.21	-25.93	0.0	0.0	0.0	0.0	0.0	0.0
546.44	260.37	1779.17	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.52	262.96	571.29	1295.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545.38	521.94	1334.57	1051.22	-50.64	0.0	0.0	0.0	0.0	0.0	0.0
544.35	250.80	1920.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
543.33	246.16	1989.71	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
542.32	244.43	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
539.81	259.78	505.18	1322.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
538.16	179.27	1403.05	1701.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
537.08	185.55	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.28	133.62	1871.67	1856.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
532.00	614.25	507.87	1523.60	-14.44	0.0	0.0	0.0	0.0	0.0	0.0
529.80	247.65	2058.06	975.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
526.89	185.77	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
525.93	117.02	1910.01	1840.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
523.69	233.75	754.10	2143.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
519.13	605.14	1519.58	1781.43	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
518.19	277.59	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
517.85	137.89	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
517.22	722.05	1658.19	1622.73	-63.85	0.0	0.0	0.0	0.0	0.0	0.0
516.31	229.38	2058.06	1460.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
515.00	675.44	1941.28	1584.23	-12.39	0.0	0.0	0.0	0.0	0.0	0.0
514.87	210.65	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
514.81	219.65	2058.06	1528.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.36	213.38	1494.44	1931.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
513.03	210.94	2058.06	1594.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
511.60	2557.91	1162.97	2137.53	-35.60	0.0	0.0	0.0	0.0	0.0	0.0
511.37	238.73	1466.98	1862.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.94	203.29	2058.06	1658.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
510.18	211.08	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
509.33	988.27	595.15	1743.34	-8.97	0.0	0.0	0.0	0.0	0.0	0.0
508.80	439.77	1868.22	1857.40	-12.68	0.0	0.0	0.0	0.0	0.0	0.0
507.93	197.57	2058.06	1720.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
507.73	170.78	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
505.47	324.85	1399.30	1211.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
504.67	416.19	1863.17	1859.41	-18.66	0.0	0.0	0.0	0.0	0.0	0.0
503.22	301.29	1425.36	1277.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
501.00	146.11	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.74	68.76	1875.48	1854.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.46	74.81	1027.41	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.21	154.94	1066.89	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.95	180.69	1109.50	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.65	209.66	1162.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
479.42	220.36	1219.66	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
479.33	828.39	1427.56	1400.74	-13.41	0.0	0.0	0.0	0.0	0.0	0.0
477.82	284.44	1409.85	1718.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
477.65	278.03	1488.13	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.35	273.78	1562.37	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
476.11	269.28	710.31	1240.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.67	272.29	642.40	1267.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.60	111.76	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
475.32	270.51	1636.18	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.78	262.90	776.93	1214.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.46	267.27	1709.54	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.18	236.10	1036.81	1110.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
474.02	224.57	1093.76	1088.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.68	263.21	1782.32	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
473.44	252.45	974.62	1135.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.96	517.52	1379.12	1035.02	-47.22	0.0	0.0	0.0	0.0	0.0	0.0
472.61	267.41	574.24	1294.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
472.25	247.95	1924.23	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.90	363.97	1127.26	1381.90	-49.86	0.0	0.0	0.0	0.0	0.0	0.0
471.70	117.36	1910.50	1840.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
471.56	239.49	1991.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
470.88	238.57	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
469.41	202.49	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
467.57	257.92	505.29	1322.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
464.00	614.16	508.03	1523.98	-14.44	0.0	0.0	0.0	0.0	0.0	0.0
461.81	192.41	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.99	237.48	754.04	2143.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
458.27	233.30	2058.06	975.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
455.42	543.32	1528.13	1778.03	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
455.15	280.92	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
455.05	140.12	1528.76	1777.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.52	229.10	780.93	2211.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
454.06	188.06	1471.53	1874.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
452.91	201.10	1495.97	1935.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
451.77	207.96	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.69	226.02	875.58	2251.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.54	230.97	945.05	2224.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
450.40	2099.17	1216.80	2116.15	-35.60	0.0	0.0	0.0	0.0	0.0	0.0
450.22	457.64	2058.06	1430.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
449.53	211.15	2058.06	1535.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.57	201.35	2058.06	1600.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0
448.14	245.12	2058.06	1321.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
447.26	394.44	1852.10	1769.68	-19.89	0.0	0.0	0.0	0.0	0.0	0.0
445.02	180.27	2058.06	1723.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	1728.18	1923.78	1644.79	-18.66	0.0	1963.11	1856.31	0.217	0.368	3.505
424.02	67.10	1913.18	1839.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
418.67	988.27	595.15	1743.34	-8.97	0.0	0.0	0.0	0.0	0.0	0.0
417.87	189.84	1371.34	1141.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
416.73	335.23	1401.97	1218.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
415.61	282.59	1427.01	1281.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
414.50	135.88	1450.33	1339.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.11	92.55	1874.77	1854.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
406.17	380.30	1412.87	1726.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
404.11	215.93	1052.69	907.06	-1.89	0.0	0.0	0.0	0.0	0.0	0.0
404.00	180.24	1104.78	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.85	222.25	1160.39	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.73	224.25	1220.21	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
403.67	849.79	1426.74	1407.68	-13.41	0.0	0.0	0.0	0.0	0.0	0.0
402.89	280.66	1488.47	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
402.24	549.20	1143.36	1071.30	-42.43	0.0	0.0	0.0	0.0	0.0	0.0
401.87	274.15	645.40	1266.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.80	100.87	1150.48	1065.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.71	274.55	1638.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.40	204.78	1099.38	1086.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.34	265.04	782.10	1212.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
401.26	271.68	1712.43	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.98	229.48	1045.41	1107.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.86	268.03	1786.38	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.49	261.89	1859.44	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
400.29	269.23	576.08	1293.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.13	505.78	1371.57	1050.99	-54.07	0.0	0.0	0.0	0.0	0.0	0.0
399.90	261.30	916.43	1158.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.78	482.28	1460.89	1026.01	-50.62	0.0	0.0	0.0	0.0	0.0	0.0
399.44	230.89	2058.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
399.12	206.65	1568.17	1636.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
398.40	258.73	506.57	1321.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
396.00	615.86	507.86	1523.57	-14.44	0.0	0.0	0.0	0.0	0.0	0.0
395.20	195.36	1589.70	1690.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
395.15	197.19	1471.86	1874.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
393.60	238.73	754.02	2143.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
392.42	220.16	2058.06	975.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
391.71	609.99	1519.23	1781.57	-8.25	0.0	0.0	0.0	0.0	0.0	0.0
391.65	423.14	1528.76	1777.78	-4.12	0.0	0.0	0.0	0.0	0.0	0.0
391.35	230.36	780.90	2210.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
390.86	202.88	1496.26	1936.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.65	205.39	1635.76	1806.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
389.20	2556.25	1161.88	2137.96	-35.60	0.0	0.0	0.0	0.0	0.0	0.0
388.08	210.70	2058.06	1474.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.93	231.51	2058.06	1403.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.84	201.78	2058.06	1542.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.44	193.66	2058.06	1607.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
387.21	197.51	1660.29	1868.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
386.85	422.70	2058.06	1468.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
385.81	161.81	2058.06	1727.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
384.00	2018.56	1941.10	1585.50	-18.66	0.0	1957.35	1855.12	0.206	0.154	4.707
328.00	1.876e+05	1300.09	1513.79	-82.61	0.0	1388.66	1256.09	0.820	0.172	0.438
327.92	289.07	1442.58	1801.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
322.58	553.23	1412.62	1725.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.00	1010.16	2058.06	1616.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
255.15	246.38	1998.89	1805.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.00	1693.16	979.01	1884.36	-30.01	0.0	0.0	0.0	0.0	0.0	0.0
248.97	270.22	1938.69	1829.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.95	303.04	679.61	1576.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
246.69	311.70	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
245.99	573.09	1843.55	1867.20	-3.16	0.0	0.0	0.0	0.0	0.0	0.0
244.12	315.79	652.46	1508.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244.03	292.93	1749.79	1904.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.66	394.73	1062.00	1179.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.61	324.38	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
243.23	385.55	2058.06	1325.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.64	378.11	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.57	396.87	973.36	2072.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241.00	3734.62	1408.22	1664.89	-65.90	0.0	1628.78	1789.87	0.104	4.133	2.042
240.39	328.39	1867.36	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.08	343.85	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.77	329.95	1792.24	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.16	331.42	1717.14	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239.10	346.46	770.27	1379.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238.53	332.68	1642.08	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
237.85	683.01	1196.64	1134.18	-36.20	0.0	0.0	0.0	0.0	0.0	0.0
237.60	861.26	1581.16	1207.16	-45.31	0.0	0.0	0.0	0.0	0.0	0.0
236.92	333.00	1492.62	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.70	354.16	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.27	363.49	1234.52	1471.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235.06	326.99	1419.06	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234.32	389.38	1181.84	1407.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232.21	354.71	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231.35	1154.10	1551.92	1340.08	-46.60	0.0	0.0	0.0	0.0	0.0	0.0
230.42	362.27	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.10	325.13	1348.30	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.12	351.25	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228.78	435.41	1124.11	1338.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227.95	1347.88	1400.23	1213.78	-10.78	0.0	0.0	0.0	0.0	0.0	0.0
225.10	380.48	1412.34	1725.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215.00	5852.58	1409.33	1251.38	-51.53	0.0	1431.17	1112.32	0.763	0.078	0.483
190.00	1532.51	2058.06	1611.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.00	661.95	992.27	1892.18	-30.01	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
172.44	290.23	1997.53	1806.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.26	311.28	679.37	1576.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.91	318.15	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.77	291.25	1936.29	1830.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.90	296.60	1873.73	1855.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.92	392.15	2058.06	1323.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.84	321.45	652.11	1507.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.52	329.65	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.32	296.26	1810.61	1880.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.34	296.90	1748.47	1904.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.00	5136.76	1348.90	1685.30	-65.90	0.0	1635.23	1789.26	0.082	6.756	2.167
153.16	324.77	1867.82	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.74	341.23	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.31	324.67	1793.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.47	665.48	1232.60	1149.30	-47.41	0.0	0.0	0.0	0.0	0.0	0.0
150.61	323.97	1643.91	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.27	835.24	1581.16	1207.16	-45.31	0.0	0.0	0.0	0.0	0.0	0.0
149.91	340.39	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.71	322.74	1569.48	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.61	319.80	1495.42	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.69	338.17	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.42	352.53	1233.37	1469.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.34	313.66	1422.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.71	370.39	1179.71	1405.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.99	814.27	1584.89	1202.08	-46.60	0.0	0.0	0.0	0.0	0.0	0.0
143.89	334.03	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.73	329.89	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.29	302.20	1349.95	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.46	385.49	1122.30	1336.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.15	316.29	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.26	1207.38	1400.13	1213.54	-10.76	0.0	0.0	0.0	0.0	0.0	0.0
137.48	364.32	1411.20	1722.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.67	4043.32	1385.64	1263.08	-51.53	0.0	0.0	0.0	0.0	0.0	0.0
100.32	198.40	1122.05	2013.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.00	2193.28	963.68	1871.31	-30.01	0.0	0.0	0.0	0.0	0.0	0.0
84.98	688.93	2058.06	1748.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.92	387.14	2058.06	1648.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.71	426.86	2058.06	1568.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.91	434.43	2058.06	1486.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.93	431.34	2058.06	1403.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.40	348.25	679.70	1576.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.10	355.30	833.29	1963.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.18	320.67	1996.61	1806.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.13	308.74	1934.84	1830.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.22	342.62	861.59	2034.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71.00	335.06	652.21	1507.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.38	304.09	1872.63	1855.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.00	300.27	1809.96	1880.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.80	381.10	2058.06	1317.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69.74	399.84	1062.00	1196.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68.48	296.66	1747.36	1905.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.00	4051.24	1407.34	1672.26	-65.90	0.0	1635.23	1789.26	0.082	5.377	2.439
66.48	410.65	973.46	2072.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.42	321.33	1868.26	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.36	391.02	1391.85	1906.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66.14	338.87	697.34	1408.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.84	319.74	1794.04	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.26	654.35	1231.86	1149.99	-47.48	0.0	0.0	0.0	0.0	0.0	0.0
64.76	823.25	1581.15	1207.16	-45.31	0.0	0.0	0.0	0.0	0.0	0.0
64.68	316.24	1645.65	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.28	333.16	843.20	1350.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64.08	313.93	1571.57	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.39	310.71	1497.70	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.27	336.37	1233.86	1470.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.12	358.31	1181.26	1407.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63.01	328.56	916.13	1321.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.42	306.01	1424.19	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.97	799.50	1583.13	1201.28	-46.60	0.0	0.0	0.0	0.0	0.0	0.0

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
61.11	320.45	989.07	1292.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.81	297.04	1351.15	907.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.75	318.21	1285.18	1532.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.59	380.86	1123.06	1337.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.11	304.80	1333.43	1589.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59.74	1163.89	1400.22	1213.76	-10.75	0.0	0.0	0.0	0.0	0.0	0.0
58.33	3957.57	1387.69	1261.01	-51.53	0.0	0.0	0.0	0.0	0.0	0.0
53.98	332.16	1407.54	1713.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	4.607e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	6.745	0.148	0.273	1.213e+04	2.6	3.662e+05	79.5	459.40	9.97e-02	0.0	0.0
2	7.156	0.140	0.273	3.425e+05	74.3	7660.44	1.7	3359.04	0.7	0.0	0.0
3	9.508	0.105	0.241	602.77	0.1	2129.29	0.5	1.786e+04	3.9	0.0	0.0
4	9.664	0.103	0.239	3.918e+04	8.5	3907.00	0.8	8.136e+04	17.7	0.0	0.0
5	14.145	0.071	0.199	1.683e+04	3.7	1850.18	0.4	2.337e+05	50.7	0.0	0.0
6	14.957	0.067	0.195	1.702e+04	3.7	3.542e+04	7.7	2.588e+04	5.6	0.0	0.0
7	16.728	0.060	0.186	1.787e+04	3.9	1.343e+04	2.9	4.237e+04	9.2	0.0	0.0
8	17.135	0.058	0.185	7410.71	1.6	9024.59	2.0	1.155e+04	2.5	0.0	0.0
9	19.239	0.052	0.177	879.08	0.2	1.518e+04	3.3	2770.19	0.6	0.0	0.0
10	20.669	0.048	0.173	1804.80	0.4	3547.27	0.8	8663.58	1.9	0.0	0.0
11	24.061	0.042	0.164	3152.64	0.7	795.94	0.2	2.460e+04	5.3	0.0	0.0
12	30.321	0.033	0.154	1.58e-04	0.0	866.18	0.2	1907.11	0.4	0.0	0.0
13	37.645	0.027	0.146	869.54	0.2	47.76	1.04e-02	3246.22	0.7	0.0	0.0
14	42.087	0.024	0.143	74.91	1.63e-02	49.90	1.08e-02	2118.10	0.5	0.0	0.0
15	47.059	0.021	0.140	234.07	5.08e-02	450.95	9.79e-02	552.02	0.1	0.0	0.0
Risulta				4.605e+05		4.606e+05		4.604e+05			
In percentuale				99.96		99.97		99.94			

RISULTATI NODALI

LEGENDA RISULTATI NODALI

Il controllo dei risultati delle analisi condotte, per quanto concerne i nodi strutturali, è possibile in relazione alle tabelle sottoriportate.

Una prima tabella riporta infatti per ogni nodo e per ogni combinazione (o caso di carico) gli spostamenti nodali.

Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		cm	cm	cm			
2	1	-1.17e-04	6.63e-04	-0.16	2.12e-05	2.02e-04	0.0
2	2	-1.73e-04	7.14e-04	-0.18	2.18e-05	2.36e-04	0.0
2	3	-1.17e-04	6.63e-04	-0.16	2.12e-05	2.02e-04	0.0
...							
2088	152	4.52e-03	0.18	-0.36	-1.22e-04	1.71e-05	-8.90e-06
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		-0.52	-0.50	-1.04	-2.36e-03	-2.89e-03	-4.95e-04
		0.44	0.55	0.15	1.83e-03	2.19e-03	0.02

RISULTATI OPERE DI FONDAZIONE

LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sotto riportate.

La tabella è riferita alle fondazioni tipo platea su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

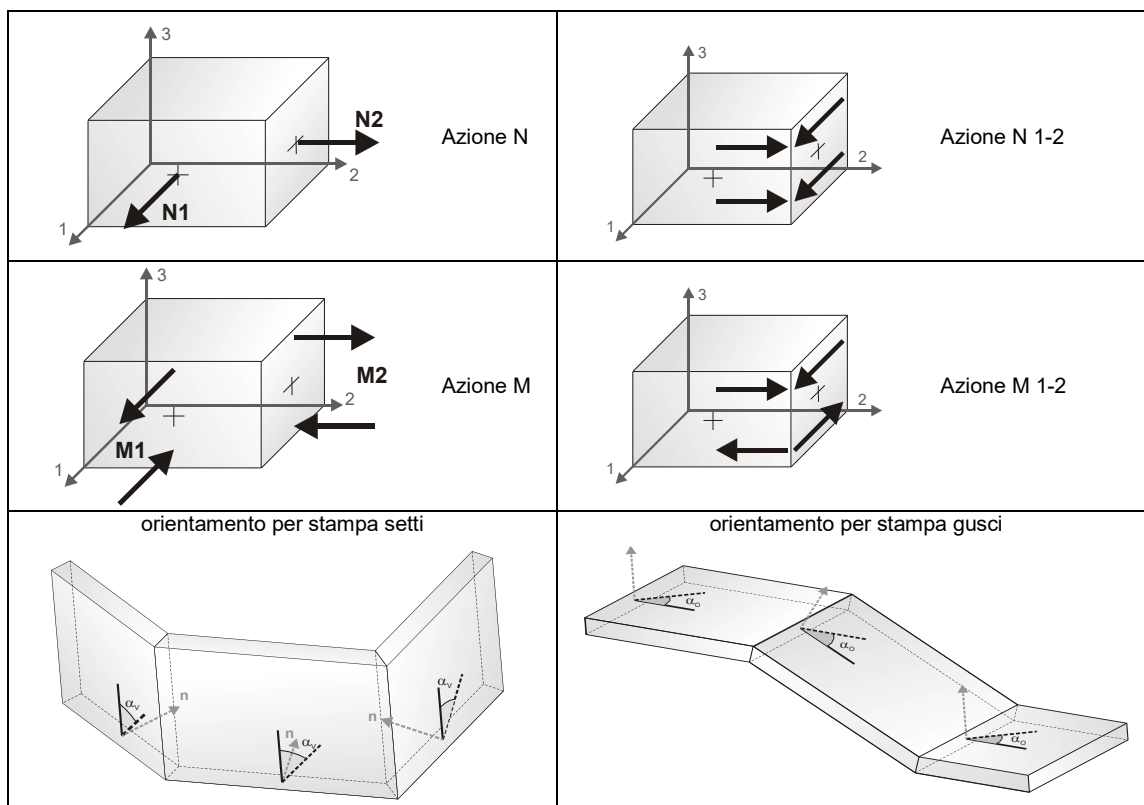
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
2	-0.49	-0.55	-0.49	-0.55	-0.38	-0.44	-0.38	-0.44	-0.49	-0.55	-0.38
	-0.44	-0.38	-0.43	-0.38	-0.43	-0.38	-0.43	-0.42	-0.48	-0.42	-0.48
	-0.34	-0.40	-0.34	-0.40	-0.42	-0.48	-0.34	-0.40	-0.38	-0.42	-0.38
...											
2042	-0.21	-0.45	-0.42	-0.45	-0.42	-0.52	-0.35	-0.51	-0.35	-0.21	-0.66
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	-1.20										
	0.29										

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 (lo sforzo 2-1 è uguale allo sforzo 1-2 per la reciprocità delle tensioni tangenziali)
N1-2	M1	
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_0 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.

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)
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	1	-20.00	-3.584e+04	1.049e+04	2220.24	1.449e+06	-1.917e+05	1.770e+04
8	1	58.33	-3.540e+04	1.053e+04	2195.98	1.744e+06	-1.930e+05	5727.37
8	1	60.81	-3.545e+04	1.002e+04	1681.79	1.506e+06	-1.817e+05	3241.17
...								
8	152	708.45	-25.76	41.69	-43.27	-299.75	-508.55	-461.27
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-8.062e+04	-9.089e+04	-8213.52	-1.042e+07	-6.720e+05	-1.666e+05
			1.959e+04	6.489e+04	4785.80	2.765e+07	6.391e+05	8.640e+04

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	1	-20.00	-4.156e+04	4022.32	-1828.55	2.141e+06	1.747e+05	-5.531e+04
10	1	58.33	-4.042e+04	3034.52	-1540.11	2.179e+06	1.798e+05	-3.580e+04
10	1	69.80	-3.980e+04	3514.55	-1539.85	2.067e+06	1.699e+05	-3.192e+04
...								
10	152	681.07	-185.41	-600.50	286.26	-1.382e+04	7448.74	-2.855e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-9.222e+04	-5.587e+04	-2080.36	-5.563e+06	-7.725e+05	-2.416e+05
			2.159e+04	4.580e+04	8965.79	6.680e+06	8.713e+05	1.144e+05

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	1	-20.00	-4028.84	6428.76	-6.35	-7.876e+04	-89.95	-3423.03
11	1	67.00	-5120.74	6428.76	-6.35	-8.264e+04	-101.24	-2397.09
11	1	154.00	-9994.99	7555.44	-3.17	7.193e+04	-977.53	-1440.68
...								
11	152	790.00	-535.67	-692.02	179.36	-1.407e+04	-4748.91	-4125.03
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.520e+04	-2.817e+04	-1864.75	-5.191e+05	-3.022e+04	-3.064e+04
			3204.79	3.250e+04	2020.77	8.119e+05	2.444e+04	4.066e+04

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	1	328.00	-2.265e+04	-519.14	-5913.00	-5.185e+05	5.497e+05	1.054e+05
13	1	389.20	-2.237e+04	-590.38	-5905.43	-1.221e+05	5.407e+05	1.211e+05
13	1	391.35	-2.283e+04	-1490.74	-3735.80	-3.352e+05	4.888e+05	1.012e+05
...								
13	152	689.84	-1490.87	98.78	689.37	-1.467e+05	3.560e+04	8.385e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-4.144e+04	-3.686e+04	-9224.72	-4.131e+06	-5.596e+04	-2.439e+05
			1928.79	3.301e+04	7912.96	6.722e+06	1.443e+06	8.000e+05

Macro	Tipo	Angolo 1-Z (gradi)
14	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
14	1	-20.00	-2.548e+04	2570.42	-1512.76	2.047e+05	8.395e+04	-2.249e+04
14	1	67.00	-2.533e+04	2790.09	-1506.97	2.148e+05	8.374e+04	-6136.81
14	1	68.48	-2.558e+04	3159.02	-1573.74	2.385e+05	8.247e+04	-2239.70
...								
14	152	634.00	-5263.08	-1.095e+04	1600.77	9115.74	1.151e+05	1.720e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6.604e+04	-4.021e+04	-2666.61	-7.866e+05	-2.276e+05	-5.316e+04
			2.037e+04	4.341e+04	4227.72	1.479e+06	2.077e+05	4.795e+04

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	1	328.00	-1.449e+04	1.746e+04	-4944.91	2.376e+06	6.091e+05	-3748.72
15	1	389.20	-1.302e+04	1.744e+04	-5342.25	1.793e+06	6.091e+05	-1.914e+04
15	1	450.40	-1.294e+04	1.997e+04	-1499.82	1.399e+06	4.059e+05	-1.660e+04
...								
15	152	634.00	-1.366e+04	1.375e+04	2462.14	3.100e+05	4.957e+05	-2.157e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.578e+04	-1.276e+04	-9485.37	-7.049e+05	-4.953e+04	-6.098e+04
			2109.14	4.322e+04	7487.41	4.347e+06	1.063e+06	4.989e+04

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	1	-20.00	-3.940e+04	-8738.95	-992.09	3.643e+05	7.808e+04	-2.117e+04
16	1	58.33	-3.414e+04	-9831.81	-1365.41	7.327e+05	7.349e+04	-3724.21
16	1	61.97	-3.676e+04	-1.017e+04	-1007.19	9.664e+05	5.984e+04	-2673.16
...								
16	152	328.00	-5.234e+04	-2.126e+04	-214.94	-1.613e+04	-6512.34	2160.25
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-9.394e+04	-5.400e+04	-6606.48	-1.763e+06	-1.762e+05	-7.606e+04
			2.612e+04	2.990e+04	4188.73	2.877e+06	3.140e+05	6.462e+04

Macro	Tipo	Angolo 1-Z (gradi)
17	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
17	1	328.00	-4.128e+04	2.501e+04	264.83	-8.604e+06	-1.950e+05	8576.96
17	1	396.00	-3.920e+04	2.320e+04	475.27	-8.116e+06	-1.799e+05	4.565e+04
17	1	398.40	-3.782e+04	2.422e+04	-821.99	-8.516e+06	-1.519e+05	3.127e+04
...								
17	152	697.00	-1.784e+04	1.642e+04	-4997.48	-2.811e+06	-9.582e+05	-1.142e+05
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6.255e+04	-1.069e+04	-8259.08	-1.518e+07	-1.631e+06	-1.941e+05
			-3146.53	5.718e+04	5873.93	4.589e+05	2.558e+05	1.401e+05

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	1	-20.00	-2.408e+04	-2131.74	1210.76	-1.050e+06	-6.910e+04	4.531e+04
18	1	58.33	-2.355e+04	2007.59	1210.76	-1.043e+06	-6.788e+04	3.586e+04
18	1	61.97	-2.278e+04	1973.11	1246.55	-9.969e+05	-5.355e+04	3.279e+04
...								
18	152	328.00	-2.165e+04	-5860.98	-1992.77	-4.882e+05	-1.113e+05	-6.294e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-5.840e+04	-2.619e+04	-2662.02	-2.197e+06	-1.419e+05	-9.168e+04
			1.725e+04	2.643e+04	1502.25	6.833e+05	1.268e+04	7.226e+04

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	1	-20.00	-5.021e+04	-3745.21	-420.30	-3.717e+05	1.996e+05	-8125.32
19	1	67.00	-5.070e+04	-3889.60	-415.97	-2.357e+05	2.007e+05	-3277.43
19	1	71.00	-5.123e+04	-3319.06	-4000.88	-4.234e+05	1.838e+05	-2408.43
...								
19	152	328.00	-5.618e+04	-3.244e+04	-1.143e+04	-3.625e+05	-5.371e+05	-1.760e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.348e+05	-1.450e+05	-2.124e+04	-4.426e+06	-9.815e+05	-4.837e+04
			1.639e+04	1.360e+05	4495.44	4.507e+06	2.599e+05	6.834e+04

Macro	Tipo	Angolo 1-Z (gradi)

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	1	-20.00	-5.813e+04	-9287.48	-1884.36	2.005e+06	4.020e+04	2.573e+04
20	1	58.33	-5.794e+04	-9279.11	-1884.36	2.011e+06	4.086e+04	-5330.17
20	1	61.11	-5.822e+04	-9323.30	-1911.67	1.937e+06	4.404e+04	-6046.26
...								
20	152	328.00	-2.725e+04	-1.414e+04	3183.43	8.013e+05	9.911e+04	-3.744e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.301e+05	-6.939e+04	-9808.06	-4.655e+06	-3.137e+05	-7.567e+04
			2.829e+04	5.280e+04	8133.31	8.593e+06	3.914e+05	7.343e+04

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	1	-20.00	-1.151e+05	1567.46	-4239.43	-1.857e+06	2.044e+05	2982.38
21	1	58.33	-1.123e+05	2153.15	-4175.31	-2.259e+06	2.007e+05	-2045.27
21	1	59.74	-1.064e+05	3043.99	-2474.58	-2.386e+06	1.493e+05	7233.48
...								
21	152	790.00	-170.75	-809.05	-66.19	-2.403e+04	970.31	591.03
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.545e+05	-8.225e+04	-1.285e+04	-2.780e+07	-2.851e+05	-7.112e+04
			4042.95	8.798e+04	8134.04	2.483e+07	6.161e+05	5.768e+04

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	1	-20.00	-7.956e+04	-4505.20	2095.97	1.617e+05	3294.17	-3490.91
22	1	66.36	-7.664e+04	-3890.69	2009.85	6.112e+04	5185.64	1776.36
22	1	66.48	-7.669e+04	-4221.94	2021.25	4.915e+04	7841.83	2325.52
...								
22	152	328.00	-6.891e+04	-1.085e+04	-8205.40	-1.291e+06	-2.794e+05	3.600e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.934e+05	-1.108e+05	-1.412e+04	-4.026e+06	-4.975e+05	-1.072e+05
			3.453e+04	9.761e+04	7521.70	3.975e+06	2.088e+05	1.005e+05

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	1	-20.00	-1.610e+04	-4900.18	2024.79	2261.09	-3.114e+04	-9125.82
23	1	53.98	-1.850e+04	-4816.58	1198.51	-617.64	-3.543e+04	-110.52
23	1	58.33	-1.853e+04	-4495.13	514.16	-1.490e+04	-1.618e+04	2867.55
...								
23	152	790.00	-401.03	-380.07	25.47	-2.740e+04	-1920.17	678.52
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-8.382e+04	-3.237e+04	-1.503e+04	-5.034e+06	-4.130e+05	-7.043e+04
			7393.42	3.153e+04	7814.06	5.954e+06	3.539e+05	1.031e+05

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	1	-20.00	-4.348e+04	-4209.32	1194.68	-1.023e+06	-7.800e+04	9954.87
24	1	58.33	-4.439e+04	-4701.79	1027.51	-7.781e+05	-7.936e+04	4924.52
24	1	60.11	-4.415e+04	-5770.32	-50.55	-6.259e+05	-6.036e+04	4227.89
...								
24	152	328.00	-2.407e+04	-3.221e+04	-1226.60	-1.675e+06	-9.873e+04	-2.325e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-5.946e+04	-9.445e+04	-2783.49	-3.748e+06	-2.634e+05	-4.100e+04
			-3307.46	7.614e+04	4809.41	2.090e+06	1.318e+05	2.645e+04

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	1	-20.00	-564.43	750.18	3.91	6.919e+04	54.68	-293.46
25	1	58.33	-2957.53	1563.72	19.29	-2.449e+04	-529.18	245.07
25	1	136.67	-2396.31	1563.72	19.29	-1.268e+04	-543.74	1006.31
...								
25	152	790.00	-672.51	-504.49	-138.97	-2.199e+04	1784.82	551.90
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-3.379e+04	-1.275e+04	-2313.19	-1.096e+06	-1.299e+05	-8.993e+04
			2.444e+04	1.053e+04	8746.57	1.182e+06	1.492e+05	3.508e+04

Macro	Tipo	Angolo 1-X (gradi)
1	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	1	1	4.38	-10.99	-6.56	-5.32e-02	6.96	-558.63	-6544.53	-6501.91	-601.25	-503.28
1	1	2	1.18	-21.30	-20.89	0.78	2.99	-730.00	-6174.61	-6055.17	-849.44	-797.51
1	1	3	14.48	0.43	14.43	0.48	0.77	-132.11	-5669.67	-5668.82	-132.96	68.64
...												
1	152	2042	20.57	-24.07	20.27	-23.77	-3.61	-318.48	-2516.29	-2319.46	-515.32	627.59
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-211.77	-206.65	-187.02	-90.23		-1.827e+04	-1.806e+04	-1.074e+04	-6093.15
			210.95		210.92	171.72	101.89	7628.51		7317.38	5592.16	4176.37

Macro	Tipo	Angolo 1-X (gradi)
2	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
2	1	37	17.29	-32.28	-31.58	16.59	5.85	417.46	131.01	323.76	224.72	-134.39
2	1	38	17.32	-33.40	-32.21	16.13	7.67	585.62	131.54	365.60	351.56	-226.93
2	1	66	50.22	-64.72	-62.94	48.43	14.22	539.71	72.30	241.12	370.88	224.52
...												
2	152	2078	37.91	-47.45	-8.00	-1.54	42.56	536.97	-48.58	526.68	-38.29	76.95
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-281.41	-254.67	-248.76	-106.88		-2771.58	-1986.21	-2439.98	-1800.51
			199.84		146.80	158.25	137.28	5845.20		5751.97	5230.13	2631.75

Macro	Tipo	Angolo 1-X (gradi)
3	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
3	1	448	-14.19	-30.05	-29.39	-14.85	-3.17	151.50	-113.79	108.49	-70.77	-97.78
3	1	449	-13.49	-28.10	-27.94	-13.65	-1.52	104.97	-134.86	86.95	-116.84	-63.22
3	1	997	-12.29	-26.57	-26.52	-12.34	-0.83	175.89	-39.41	111.68	24.80	-98.50
...												
3	152	2057	8.44	-25.74	-13.41	-3.90	16.42	98.71	-6.71	75.69	16.31	43.55
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-145.60	-92.93	-57.70	-82.66		-379.07	-203.38	-270.64	-210.03
			102.88		47.48	31.45	78.61	494.51		494.45	299.36	155.35

Macro	Tipo	Angolo 1-X (gradi)
4	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
4	1	30	27.00	-34.92	-2.47	-5.45	-30.93	98.73	-148.77	14.32	-64.36	117.33
4	1	41	4.95	-3.86	4.17	-3.07	-2.51	29.31	-295.55	25.49	-291.73	34.99
4	1	42	8.56	-2.28	1.49e-02	6.27	-4.43	124.83	-249.49	69.68	-194.34	132.68
...												
4	152	2088	5.25	-17.23	-14.26	2.27	-7.62	650.21	-553.11	-359.90	457.00	-441.77
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-241.17	-115.44	-197.49	-169.05		-3278.03	-3273.30	-2389.10	-1170.74
			416.86		290.23	319.22	86.37	6704.83		6693.16	2311.05	1348.32

Macro	Tipo	Angolo 1-X (gradi)
5	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
5	1	449	-46.99	-106.48	-50.21	-103.26	13.46	320.58	-182.76	314.24	-176.42	-56.13
5	1	455	-32.43	-84.12	-36.68	-79.87	14.20	129.02	-145.35	48.05	-64.37	125.14
5	1	1477	-21.74	-56.41	-38.32	-39.82	17.32	336.52	-296.06	326.52	-286.07	78.88
...												
5	152	1497	16.31	-61.19	-19.06	-25.82	38.60	317.61	-371.45	259.67	-313.51	191.23
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-235.61	-91.43	-216.28	-52.65		-678.61	-272.18	-587.82	-424.41
			80.43		10.47	30.50	84.80	1274.56		1101.46	379.25	378.61

Macro	Tipo	Angolo 1-X (gradi)
6	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
6	1	448	-13.11	-51.39	-34.89	-29.61	18.96	734.54	-51.21	650.59	32.74	-242.73
6	1	449	-20.30	-59.94	-44.33	-35.91	19.37	390.17	-72.14	376.93	-58.90	-77.11
6	1	1476	-19.34	-54.75	-33.59	-40.51	17.36	497.90	-76.39	484.26	-62.76	-87.42
...												
6	152	1477	11.98	-79.83	-33.75	-34.11	45.90	268.09	-447.03	263.35	-442.30	57.99
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-146.63	-87.64	-70.75	-86.54		-660.43	-240.03	-631.72	-470.77

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			98.10		0.11	6.25	114.16	1462.18		1423.66	267.71	330.29

Macro	Tipo	Angolo 1-X (gradi)
7	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
7	1	449	-38.04	-84.52	-40.50	-82.06	-10.42	101.52	44.05	81.31	64.25	27.44
7	1	455	-56.78	-93.48	-58.66	-91.60	-8.08	289.20	-106.93	273.57	-91.30	-77.13
7	1	2043	-21.76	-33.47	-32.36	-22.88	3.44	75.41	-96.69	73.59	-94.87	17.61
...												
7	152	2053	-2.04	-47.16	-34.68	-14.52	20.18	32.21	-66.57	-38.28	3.92	44.66
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-196.51	-102.58	-195.04	-58.20		-444.70	-249.71	-408.13	-252.31
			58.77		5.54	40.56	62.57	818.93		759.14	302.82	280.28

Macro	Tipo	Angolo 1-X (gradi)
9	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
9	1	449	-16.83	-36.43	-34.76	-18.50	-5.47	62.24	-90.59	59.93	-88.28	-18.65
9	1	2043	-16.83	-36.43	-34.76	-18.50	-5.47	62.24	-90.59	59.93	-88.28	-18.65
9	1	2057	-16.83	-36.43	-34.76	-18.50	-5.47	62.24	-90.59	59.93	-88.28	-18.65
...												
9	152	2057	-4.28	-31.25	-27.50	-8.02	9.33	64.92	-46.78	60.82	-42.68	-21.00
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-108.17	-79.99	-46.17	-58.64		-138.83	-50.60	-136.12	-70.79
			49.90		16.45	13.69	51.09	230.19		211.92	8.69	23.19

VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

Per le pareti in c.a. progettate in ottemperanza al cap. 7 del DM 14-01-08 vengono riportate 4 tabelle. In particolare per ogni parete si riportano:

- una tabella riassuntiva della geometria e dello stato di verifica per compressione assiale, pressoflessione e taglio; per le estese debolmente armate anche lo stato di verifica relativo alla snellezza.
- una tabella nella quale, per ogni quota significativa, si riporta l'armatura verticale di base e della zona confinata, eventuale armatura concentrata all'estremità per le estese debolmente armate, l'armatura orizzontale, l'esito delle 5 verifiche condotte, lo sforzo assiale aggiuntivo per q superiore a 2 e i valori di involuppo di taglio e momento
- una tabella nella quale, per ogni quota significativa, si riportano le azioni che hanno reso massimo il valore delle 5 verifiche condotte (in particolare le verifiche a taglio sono influenzate dal valore dello sforzo assiale e del momento). Le azioni derivate dall'analisi, in ogni combinazione di calcolo, sono elaborate come previsto al punto 7.4.4.5.1: traslazione del momento, incremento e variazione diagramma taglio, incremento e decremento sforzo assiale
- una tabella riassuntiva dei parametri utilizzati per le verifiche a taglio per ogni quota significativa.

Tabella 1	
H totale	Altezza complessiva della parete
Spessore	Spessore della parete
H critica	Altezza come da punto 7.4.4.5.1 per traslazione momento
H critica V	Altezza come da punto 7.4.6.1.4 per la definizione della zona critica e zona confinata
L totale	Larghezza di base della parete
L confinata	Larghezza della zona confinata
Verif. N	Verifica di cui al punto 7.4.4.5.2.1 compressione semplice
Verif. N-M	Verifica di cui al punto 7.4.4.5.2.1 pressoflessione
Verif. Snellezza	Verifica di cui al punto 7.4.4.5.2.1 limitazione compressione per prevenire l'instabilità

Fattore V	Fattore di amplificazione del taglio di cui al punto 7.4.4.5.1
Diagramma V	Diagramma elaborato per effetto modi superiori come da fig. 7.4.2
Verif. V	Verifica di cui al punto 7.4.4.5.2.2 taglio (compressione cls, trazione acciaio, scorrimento in zona critica)
Tabella 2	
Af conf.	Numero e diametro armatura presente in una zona confinata
Af std	Diametro e passo armatura in zona non confinata (doppia maglia)
Af estremi	Diametro dei ferri di estremità del pannello; se posto uguale 0, viene utilizzato il diametro standard
Af V (ori)	Diametro e passo armatura orizzontale (doppia maglia)
Ver. N	Rapporto tra azione di calcolo e resistenza a compressione (normalizzato a 1 in quanto da confrontare con 40% in CDB e 35 % in CDA)
Ver. N/M	Rapporto tra azione di calcolo e resistenza a pressoflessione
Ver. Snell.	Rapporto tra la snellezza dell'elemento e la snellezza lim. come da formula 4.1.33
Ver. V cls	Rapporto tra azione di calcolo e resistenza a taglio-compressione
Ver. V acc	Rapporto tra azione di calcolo e resistenza a taglio-trazione
Ver. V scorr.	Rapporto tra azione di calcolo e resistenza a taglio scorrimento
N add	Sforzo assiale di cui al punto 7.4.4.5.1 da sommare e sottrarre nelle verifiche quando q supera 2
M invil	Inviluppo del momento come al punto 7.4.4.5.1 (informativo)
V invil	Inviluppo del taglio come al punto 7.4.4.5.1 (informativo)
Tabella 3	
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore
N v.Vacc, M v.Vacc, V v.Vacc,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. acc attinge il massimo valore
N v.Vscorr, M v.Vscorr, V v.Vscorr,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. scorr.e
Tabella 4	
CtgT Vcls	Valore di ctg(teta) adottato nella verifica V compressione cls
Vrsd Vcls	Valore della resistenza a taglio trazione (armatura di calcolo)
Vrcd Vcls	Valore della resistenza a taglio compressione
CtgT Vacc	Valore di ctg(teta) adottato nella verifica V trazione armatura
Vrsd Vacc	Valore della resistenza a taglio trazione (armatura presente)
Vrcd Vacc	Valore della resistenza a taglio compressione
Vdd	Valore del contributo alla resistenza allo scorrimento come da [7.4.19]
Vid	Valore del contributo alla resistenza allo scorrimento come da [7.4.20]
Vfd	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]

Nel caso dei gusci e nel caso in cui la progettazione della parete sia integrata o effettuata del tutto con progettazione locale si produce una tabella nella quale vengono riportati per ogni macroelemento il numero dello stesso ed il codice di verifica.

Per la progettazione con il metodo degli stati limite vengono riportati il rapporto x/d , la verifica per sollecitazioni ultime e la verifica per compressione media con l'indicazione delle due combinazioni in cui si sono attinti i rispettivi valori.

Nel caso in cui si sia proceduto alla progettazione con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima compressione media nel calcestruzzo, massima tensione nell'acciaio) con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

Per ogni elemento viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso (diametri in mm, passi in cm). Le quantità di armature necessarie sono armature (disposte rispettivamente in direzione principale e secondaria, inferiore e superiore) distribuite nell'elemento ed espresse in centimetri quadri per sviluppo lineare pari ad un metro.

In particolare i simboli utilizzati assumono il seguente significato:

M_S	macroelemento di tipo setto (elementi verticali contigui ed analoghi per proprietà)
M_G	macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
Stato	codice di verifica dell'elemento
Nodo	numero del nodo
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto Sd/Su con sollecitazioni ultime: valore minore o uguale a 1 per verifica positiva
Ver.rd	rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd): valore minore o uguale a 1 per verifica positiva
Rete pr	maglia di armatura (diametro/passi) in direzione principale inferiore e superiore
Rete sec	maglia di armatura (diametro/passi) in direzione secondaria inferiore e superiore
Aggiuntivi	relativa armatura aggiuntiva (diametro/passi) inferiore (i) e superiore (s) eventualmente differenziate
sc max	massima tensione di compressione del calcestruzzo
sc med	massima tensione media di compressione del calcestruzzo
sf max	massima tensione dell'acciaio
Rif. cmb	combinazioni di carico in cui si verificano i valori riportati
Af pr-	quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr+	quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	Af sec+ valori analoghi a quelli soprariportati ma relativi alla armatura secondaria
N	M azioni membranali e flessionali (in direzione dell'armatura principale e secondaria) estratte, poiché rappresentative, tra quelle utilizzate per il progetto e la verifica

Progettazione delle fondazioni

Il D.M.14/02/2008 - par: 7.2.5 prevede:

“Per le strutture progettate sia per CD “A” sia per CD “B” il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azioni in fondazione le resistenze degli elementi strutturali soprastanti [...] si richiede tuttavia che tali azioni risultino non maggiori di quelle trasferite dagli elementi soprastanti, amplificate con un γ_{Rd} pari a 1,1 in CD “B” e 1,3 in CD “A” e comunque non maggiori di quelle derivanti da una analisi elastica della struttura in elevazione eseguita con un fattore di struttura q pari a 1....”

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO_SAP mostra le sollecitazioni che derivano dall'analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO_SAP (per travi e platee) o da PRO_CAD Plinti (per plinti e pali di fondazione) incrementando le sollecitazioni delle combinazioni con sisma del fattore: $\gamma_{rd} = 1.1$ in CDB $\gamma_{rd} = 1.3$ in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore: $\gamma_{rd} = 1.2$ in CDB $\gamma_{rd} = 1.35$ in CDA.

N.B.: se il fattore di struttura $q = 1$ la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore: $\gamma_{rd} = 1.1$ in CDB $\gamma_{rd} = 1.3$ in CDA per pali, plinti, travi e platee.

N.B.: se il fattore di struttura $q = 1$ le verifiche geotecniche vengono effettuate senza nessun incremento.

Setto	Stato	Nodo	x/d	verif.	ver. rid	Rif. cmb	Af pr-	Af pr+	Af sec-	Af sec+	Rete pr + Aggiuntivi	Rete sec + Aggiuntivi
789	ok	556	0.11	0.35	0.18	45,46	3.9	3.9	3.9	3.9	10/20+(0/0 i 0/0 s)	10/20+(0/0 i 0/0 s)
		551	0.11	0.31	0.17	45,46	3.9	3.9	3.9	3.9	10/20+(0/0 i 0/0 s)	10/20+(0/0 i 0/0 s)
		72	0.11	0.30	0.16	45,46	3.9	3.9	3.9	3.9	10/20+(0/0 i 0/0 s)	10/20+(0/0 i 0/0 s)
		2083	0.11	0.34	0.18	45,46	3.9	3.9	3.9	3.9	10/20+(0/0 i 0/0 s)	10/20+(0/0 i 0/0 s)
...												
2163	ok	283	0.11	0.19	0.08	46,71	3.9	3.9	3.9	3.9	10/20+(0/0 i 0/0 s)	10/20+(0/0 i 0/0 s)
Setto			x/d	verif.	ver. rid		Af pr-	Af pr+	Af sec-	Af sec+		
			0.18	1.00	0.31		9.10	10.83	6.64	6.73		

Guscio	Stato	Nodo	x/d	verif.	ver. rid	Rif. cmb	Af pr-	Af pr+	Af sec-	Af sec+	Rete pr + Aggiuntivi	Rete sec + Aggiuntivi
1	ok	298	0.08	0.48	0.01	71,66	5.7	5.7	5.7	5.7	12/20+(0/0 i 0/0 s)	12/20+(0/0 i 0/0 s)
		380	0.08	0.48	0.01	71,66	5.7	5.7	5.7	5.7	12/20+(0/0 i 0/0 s)	12/20+(0/0 i 0/0 s)
		323	0.08	0.43	8.23e-03	71,46	5.7	5.7	5.7	5.7	12/20+(0/0 i 0/0 s)	12/20+(0/0 i 0/0 s)
		300	0.08	0.43	8.07e-03	71,46	5.7	5.7	5.7	5.7	12/20+(0/0 i 0/0 s)	12/20+(0/0 i 0/0 s)
...												
2159	ok	479	0.11	0.35	0.03	44,47	5.7	5.7	5.7	5.7	12/20+(0/0 i 0/0 s)	12/20+(0/0 i 0/0 s)
Guscio			x/d	verif.	ver. rid		Af pr-	Af pr+	Af sec-	Af sec+		
			0.23	1.00	0.12		16.04	17.98	9.18	10.65		

STATI LIMITE D' ESERCIZIO

LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.

In particolare vengono riportati, in relazione al tipo di elemento strutturale, i risultati relativi alle tre categorie di combinazione considerate:

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]
dR	massima deformazione in combinazioni rare
dF	massima deformazione in combinazioni frequenti

dP	massima deformazione in combinazioni quasi permanenti
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Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

In relazione al tipo di elemento strutturale i valori sono selezionati nel modo seguente:

pilastri	rRfck	rRfyk	rPfck	per sezioni significative
travi	rRfck wR dR	rRfyk wF dF	rPfck wP dP	per sezioni significative per sezioni significative massimi in campata
setti e gusci	rRfck wR	rRfyk wF	rPfck wP	massimi nei nodi dell'elemento massimi nei nodi dell'elemento

Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti flettenti 3-3).

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
789	0.05	0.05	0.0	32,32,0	0.0	0.0	0.0	0,0,0
814	0.03	0.08	0.0	32,32,0	0.0	0.0	0.0	0,0,0
872	9.37e-03	0.08	0.0	31,32,0	0.0	0.0	0.0	0,0,0
...								
2163	0.03	0.02	0.0	32,32,0	0.0	0.0	0.0	0,0,0
Setto	rRfck	rRfyk	rPfck		wR	wF	wP	
	0.26	0.80	0.0		0.12	0.13	0.0	

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1	0.05	0.17	0.0	32,32,0	0.0	0.0	0.0	0,0,0
2	0.06	0.25	0.0	32,32,0	0.0	0.0	0.0	0,0,0
3	0.07	0.28	0.0	32,32,0	0.0	0.0	0.0	0,0,0
...								
2159	0.09	0.19	0.0	32,32,0	0.0	0.0	0.0	0,0,0
Guscio	rRfck	rRfyk	rPfck		wR	wF	wP	
	0.48	0.81	0.0		0.19	0.22	0.0	

Il progettista delle strutture
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