

COMUNE DI RUFINA

PROVINCIA DI FIRENZE



REALIZZAZIONE DI UN EDIFICIO PER 9 ALLOGGI DI EDILIZIA RESIDENZIALE PUBBLICA IN LOCALITA' SCOPETI

Finanziamento Piano Nazionale di edilizia abitativa approvato con D.P.C.M. 16/07/2009 cofinanziato dalla Regione Toscana Deliberazione G.R.T. n. 856 del 04/10/2010 e Deliberazione G.R.T. n° 58 del 07/02/2011 come da Accordo di Programma fra il Ministero delle Infrastrutture e dei Trasporti e la Regione Toscana sottoscritto in data 19/10/2011.

Operatore: CASA SPA



IL RESPONSABILE DEL PROCEDIMENTO:
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PROGETTO DELLE STRUTTURE
dott. Ing. Lorenzo Panerai

TAV. N°	DISEGNO:	SCALA:
ES-ST 00.6	A9 - FASCICOLO DEI CALCOLO CEMENTO ARMATO	-
		DATA: Luglio 2018
RF01-ES-ST-00.6-01		

ADDETTO ALLA VERIFICA	Ing. Angela Bevilacqua	Geom. Alessandro Caioli
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Software e Servizi
per l'Ingegneria s.r.l.

PRO_SAP

PROfessional **S**tructural **A**nalysis **P**rogram

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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D.M. 14/01/08 cap. 10.2 Affidabilità dei codici utilizzati

<http://www.2si.it/software/Affidabilità.htm>

INTESTAZIONE E CONTENUTI DELLA RELAZIONE

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- *Affidabilità dei codici utilizzati*

- *Validazione dei codici*

- *Tipo di analisi svolta*

- *Modalità di presentazione dei risultati*

- *Informazioni generali sull'elaborazione*

- *Giudizio motivato di accettabilità dei risultati*

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- *Criteri adottati per le misure di sicurezza*

- *Criteri seguiti nella schematizzazione della struttura, dei vincoli e delle sconnessioni*

- *Interazione tra terreno e struttura*

- *Legami costitutivi adottati per la modellazione dei materiali e dei terreni*

- *Schematizzazione delle azioni, condizioni e combinazioni di carico*

- *Metodologie numeriche utilizzate per l'analisi strutturale*

- *Metodologie numeriche utilizzate per la progettazione e la verifica degli elementi strutturali*

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Il Progettista:

26 novembre 2015

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Esito del rilievo geometrico-strutturale	Errore. Il segnalibro non è definito.
Descrizione generale dell'opera	Errore. Il segnalibro non è definito.
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RELAZIONE DI CALCOLO STRUTTURALE

Descrizione generale dell'opera	
Fabbricato ad uso	CIVILE ABITAZIONE
Ubicazione	Comune di RUFINA (FI) (Regione TOSCANA)
	Località RUFINA (FI)
	Longitudine 11.485, Latitudine 43.822

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
II	50.0	1.0	50.0

Quadro normativo di riferimento adottato

Le norme ed i documenti assunti quale riferimento per la progettazione strutturale vengono indicati di seguito.

Nel capitolo “normativa di riferimento” è comunque presente l’elenco completo delle normative disponibili.

Progetto-verifica degli elementi	
Progetto cemento armato	D.M. 14-01-2008
Progetto acciaio	D.M. 14-01-2008
Progetto legno	D.M. 14-01-2008
Progetto muratura	D.M. 14-01-2008
Azione sismica	
Norma applicata per l'azione sismica	D.M. 14-01-2008

Azioni di progetto sulla costruzione

Nei capitoli “modellazione delle azioni” e “schematizzazione dei casi di carico” sono indicate le azioni sulla costruzioni.

Nel prosieguo si indicano tipo di analisi strutturale condotta (statico,dinamico, lineare o non lineare) e il metodo adottato per la risoluzione del problema strutturale nonché le metodologie seguite per la verifica o per il progetto-verifica delle sezioni. Si riportano le combinazioni di carico adottate e, nel caso di calcoli non lineari, i

percorsi di carico seguiti; le configurazioni studiate per la struttura in esame ***sono risultate effettivamente esaustive per la progettazione-verifica.***

La verifica della sicurezza degli elementi strutturali avviene con i metodi della scienza delle costruzioni. L'analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici. L'analisi strutturale è condotta con il metodo dell'analisi modale e dello spettro di risposta in termini di accelerazione per la valutazione dello stato tensodeformativo indotto da carichi dinamici (tra cui quelli di tipo sismico).

L'analisi strutturale viene effettuata con il metodo degli elementi finiti. Il metodo sopraindicato si basa sulla schematizzazione della struttura in elementi connessi solo in corrispondenza di un numero prefissato di punti denominati nodi. I nodi sono definiti dalle tre coordinate cartesiane in un sistema di riferimento globale. Le incognite del problema (nell'ambito del metodo degli spostamenti) sono le componenti di spostamento dei nodi riferite al sistema di riferimento globale (traslazioni secondo X, Y, Z, rotazioni attorno X, Y, Z). La soluzione del problema si ottiene con un sistema di equazioni algebriche lineari i cui termini noti sono costituiti dai carichi agenti sulla struttura opportunamente concentrati ai nodi:

$\mathbf{K} * \mathbf{u} = \mathbf{F}$ dove \mathbf{K} = matrice di rigidezza

\mathbf{u} = vettore spostamenti nodali

\mathbf{F} = vettore forze nodali

Dagli spostamenti ottenuti con la risoluzione del sistema vengono quindi dedotte le sollecitazioni e/o le tensioni di ogni elemento, riferite generalmente ad una terna locale all'elemento stesso.

Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l'asse Z verticale ed orientato verso l'alto.

Gli elementi utilizzati per la modellazione dello schema statico della struttura sono i seguenti:

- Elemento tipo **TRUSS** (biella-D2)
- Elemento tipo **BEAM** (trave-D2)
- Elemento tipo **MEMBRANE** (membrana-D3)
- Elemento tipo **PLATE** (piastra-guscio-D3)
- Elemento tipo **BOUNDARY** (molla)
- Elemento tipo **STIFFNESS** (matrice di rigidezza)
- Elemento tipo **BRICK** (elemento solido)
- Elemento tipo **SOLAIO** (macro elemento composto da più membrane)

Modello numerico

In questa parte viene descritto il modello numerico utilizzato (o i modelli numerici utilizzati) per l'analisi della struttura. La presentazione delle informazioni deve essere, coerentemente con le prescrizioni del paragrafo 10.2 delle NTC-08, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità

Tipo di analisi strutturale	
Statica lineare	SI
Statica non lineare	NO
Sismica statica lineare	NO
Sismica dinamica lineare	SI
Sismica statica non lineare (prop. masse)	NO
Sismica statica non lineare (prop. modo)	NO
Sismica statica non lineare (triangolare)	NO
Non linearità geometriche (fattore P delta)	NO

Di seguito si indicano l'origine e le caratteristiche dei codici di calcolo utilizzati riportando titolo, produttore e distributore, versione, estremi della licenza d'uso:

Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2015-07-170)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Dati utente finale:	***** COMPLETARE *****
Codice Utente:	***** COMPLETARE *****
Codice Licenza:	Licenza dsi4283

Un attento esame preliminare della documentazione a corredo del software **ha consentito di valutarne l'affidabilità e soprattutto l'idoneità al caso specifico**. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione

dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione:

Affidabilità dei codici utilizzati	
2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.	
E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: http://www.2si.it/Software/Affidabilità.htm	

Modellazione della geometria e proprietà meccaniche:	
nodi	7133
elementi D2 (per aste, travi, pilastri...)	825
elementi D3 (per pareti, platee, gusci...)	7285
elementi solaio	69
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	12.50
Xmax =	2975.73
Ymin =	-58.81
Ymax =	1445.94
Zmin =	-0.00
Zmax =	1517.76
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	SI
Pareti	SI
Setti (a comportamento membranale)	NO
Strutture non verticali:	

Elementi di tipo asta	NO
Travi	SI
Gusci	SI
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	SI
Solai senza la proprietà piano rigido	NO
Tipo di vincoli:	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI
Fondazioni con elementi solidi	NO

Modellazione delle azioni

Si veda il capitolo **“Schematizzazione dei casi di carico”** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte “2.6.

Azioni di progetto sulla costruzione”.

Combinazioni e/o percorsi di carico

Si veda il capitolo **“Definizione delle combinazioni”** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

Combinazioni dei casi di carico	
APPROCCIO PROGETTUALE	Approccio 2
Tensioni ammissibili	NO
SLU	SI

SLV (SLU con sisma)	SI
SLC	NO
SLD	SI
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI
SLA (accidentale quale incendio)	SI

Principali risultati

I risultati devono costituire una sintesi completa ed efficace, presentata in modo da riassumere il comportamento della struttura, per ogni tipo di analisi svolta.

2.8.1. Risultati dell'analisi modale

Viene riportato il tipo di analisi modale condotta, restituiti i risultati della stessa e valutate le informazioni desumibili in merito al comportamento della struttura.

2.8.2. Deformate e sollecitazioni per condizioni di carico

Vengono riportati i principali risultati atti a descrivere il comportamento della struttura, in termini di stati di sollecitazione e di deformazione generalizzata, distinti per condizione elementare di carico o per combinazioni omogenee delle stesse.

2.8.3. Involuppo delle sollecitazioni maggiormente significative. L'analisi e la restituzione degli involuppi (nelle combinazioni considerate agli SLU e agli SLE) delle caratteristiche di sollecitazione devono essere finalizzate alla valutazione dello stato di sollecitazione nei diversi elementi della struttura.

2.8.4. Reazioni vincolari

Vengono riportate le reazioni dei vincoli nelle singole condizioni di carico e/o nelle combinazioni considerate.

2.8.5. Altri risultati significativi

Nella presente parte vengono riportati tutti gli altri risultati che il progettista ritiene di interesse per la descrizione e la comprensione del/i modello/i e del comportamento della struttura.

La presente relazione, oltre ad illustrare in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare, riporta una serie di immagini:

per i dati in ingresso:

- modello solido della struttura
- numerazione di nodi e ed elementi
- configurazioni di carico statiche
- configurazioni di carico sismiche con baricentri delle masse e eccentricità

per le combinazioni più significative (statisticamente più gravose per la struttura)

- configurazioni deformate
- diagrammi e involuppi delle azioni interne
- mappe delle tensioni
- reazioni vincolari
- mappe delle pressioni sul terreno

per il progetto-verifica degli elementi

- diagrammi di armatura
- percentuali di sfruttamento
- mappe delle verifiche più significative per i vari stati limite

Informazioni generali sull'elaborazione e giudizio motivato di accettabilità dei risultati.

Il programma prevede una serie di controlli automatici (check) che consentono l'individuazione di errori di modellazione. Al termine dell'analisi un controllo automatico identifica la presenza di spostamenti o rotazioni abnormi. Si può pertanto asserire che l'elaborazione sia corretta e completa. I risultati delle elaborazioni sono stati sottoposti a controlli che ne comprovano l'attendibilità. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali e adottati, anche in fase di primo proporzionamento della struttura. Inoltre, sulla base di considerazioni riguardanti gli stati tensionali e deformativi determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni. Si allega al termine della presente relazione elenco sintetico dei controlli svolti (verifiche di equilibrio tra reazioni vincolari e carichi applicati, comparazioni tra i risultati delle analisi e quelli di valutazioni semplificate, etc.) .

Verifiche agli stati limite ultimi

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità ed i criteri seguiti per valutare la sicurezza della struttura nei confronti delle possibili situazioni di crisi ed i risultati delle valutazioni svolte. In via generale, oltre alle verifiche di resistenza e di spostamento, devono essere prese in considerazione verifiche nei confronti dei fenomeni di instabilità, locale e globale, di fatica, di duttilità, di degrado.

Verifiche agli stati limite di esercizio

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità seguite per valutare l'affidabilità della struttura nei confronti delle possibili situazioni di perdita di funzionalità (per eccessive deformazioni, fessurazioni, vibrazioni, etc.) ed i risultati delle valutazioni svolte.

RELAZIONE SUI MATERIALI

Il capitolo Materiali riporta informazioni esaustive relative all'elenco dei materiali impiegati e loro modalità di posa in opera e ai valori di calcolo.

NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 14 Gennaio 2008 e allegate "Norme tecniche per le costruzioni".
 2. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
 3. D.M. LL.PP. 9 Gennaio 1996 "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche".
 4. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
 5. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
 6. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
 7. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
 8. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
 9. Circolare 4 Gennaio 1989 n. 30787 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
 10. 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".
 11. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
 12. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
 13. Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modificazioni e integrazioni.
 14. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
 15. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesì per unità di volume, pesì propri e sovraccarichi per gli edifici.
 16. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
 17. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
 18. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
 19. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
 20. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
 21. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
 22. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici.
 23. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
 24. UNI EN 1994-1-1:2005 01/03/2005 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
 25. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
 26. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici.
 27. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
 28. UNI EN 1996-1-1:2006 26/01/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 1-1: Regole generali per strutture di muratura armata e non armata.
 29. UNI EN 1996-3:2006 09/03/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 3: Metodi di calcolo semplificato per strutture di muratura non armata.
 30. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
 31. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
 32. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
- UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.

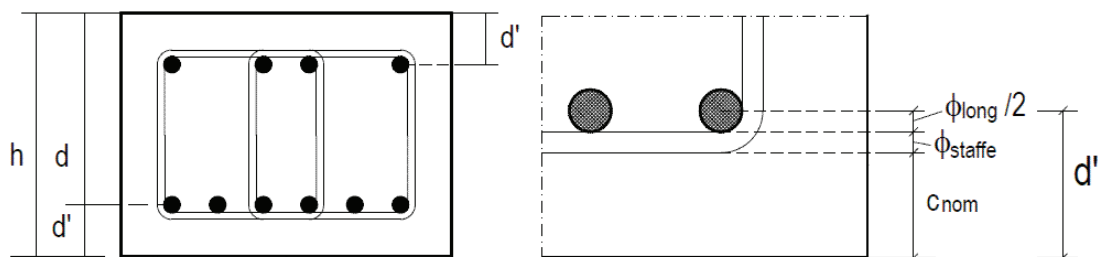
NOTA sul capitolo "normativa di riferimento": riporta l'elenco delle normative implementate nel software. Le norme utilizzate per la struttura oggetto della presente relazione sono indicate nel precedente capitolo "RELAZIONE DI CALCOLO STRUTTURALE" "ANALISI E VERIFICHE SVOLTE CON L'AUSILIO DI CODICI DI CALCOLO". Laddove nei capitoli successivi vengano richiamate norme antecedenti al DM 14.01.08 è dovuto o a progettazione simulata di edificio esistente o ad applicazione del punto 2.7 del DM 14.01.08

MATERIALI E COPRIFERRI PER STRUTTURE IN CA

Classe di esposizione ambientale	Copriferro $c_{min,dur}$ [mm]							
	15	25	30	35	40	45	50	55
XC1								
XC2								
XC3								
XC4								
XD1								
XD2								
XD3								
XS1								
XS2								
XS3								
XF1								
XF2 – XF3								
XF4								
XA1								
XA2								
XA3								

$$c_{nom} = \max (c_{min,b}, c_{min,dur}) + 10 \text{ (mm)} \geq 20 \text{ mm}$$

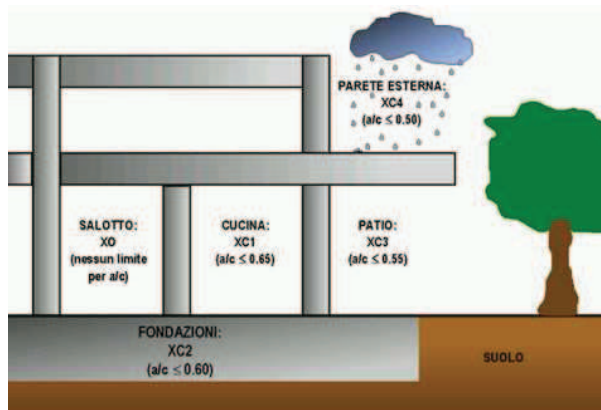
$$c_{min,b} = \phi \sqrt{n_b} \quad n_b \text{ numero di barre di un eventuale gruppo di barre; per barra singola } n_b = 1.$$



Altezze d e d'

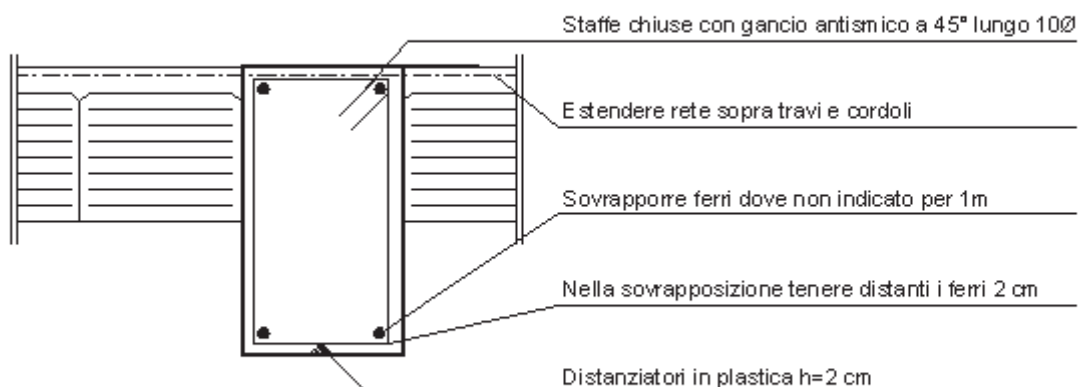
DURABILITA'

1 Nessun rischio di corrosione o di attacco		
X0	Calcestruzzo privo di armatura o inserti metallici: tutte le esposizioni eccetto dove c'è gelo/disgelo, abrasione o attacco chimico. Calcestruzzo con armatura o inserti metallici molto asciutto.	Calcestruzzo all'interno di edifici con umidità dell'aria molto bassa.
2 Corrosione indotta da carbonatazione		
XC1	Asciutto o permanentemente bagnato	Calcestruzzo all'interno di edifici con bassa umidità relativa. Calcestruzzo costantemente immerso in acqua
XC2	Bagnato, raramente asciutto	Superfici di calcestruzzo a contatto con acqua per lungo tempo. Molte fondazioni
XC3	Umidità moderata	Calcestruzzo all'interno di edifici con umidità dell'aria moderata oppure elevata. Calcestruzzo esposto all'esterno protetto dalla pioggia
XC4	Ciclicamente bagnato e asciutto	Superfici di calcestruzzo soggette al contatto con acqua, non nella classe di esposizione XC2
3 Corrosione indotta da cloruri		
XD1	Umidità moderata	Superfici di calcestruzzo esposte a nebbia salina
XD2	Bagnato, raramente asciutto	Piscine. Calcestruzzo esposto ad acque industriali contenenti cloruri
XD3	Ciclicamente bagnato ed asciutto	Parti di ponti esposte a spruzzi contenenti cloruri Pavimentazioni stradali e di parcheggi
4 Corrosione indotta da cloruri presenti nell'acqua di mare		
XS1	Esposto a nebbia salina ma non in contatto diretto con acqua di mare	Strutture prossime oppure sulla costa
XS2	Permanentemente sommerso	Parti di strutture marine
XS3	Zone esposte alle onde, agli spruzzi oppure alle maree	Parti di strutture marine
5 Attacco di cicli gelo/disgelo		
XF1	Moderata saturazione d'acqua, senza impiego di agente antigelo	Superfici verticali di calcestruzzo esposte alla pioggia e al gelo
XF2	Moderata saturazione d'acqua, con uso di agente antigelo	Superfici verticali di calcestruzzo di strutture stradali esposte al gelo e nebbia di agenti antigelo
XF3	Elevata saturazione d'acqua, senza antigelo	Superfici orizzontali di calcestruzzo esposte alla pioggia e al gelo
XF4	Elevata saturazione d'acqua, con antigelo oppure acqua di mare	Strade e impalcati da ponte esposti agli agenti antigelo Superfici di calcestruzzo esposte direttamente a nebbia contenente agenti antigelo e al gelo
6. Attacco chimico		
XA1	Ambiente chimico debolmente aggressivo	Suoli naturali ed acqua del terreno
XA2	Ambiente chimico moderatamente aggressivo	Suoli naturali ed acqua del terreno
XA3	Ambiente chimico fortemente aggressivo	Suoli naturali ed acqua del terreno



Prescrizioni esecutive

Travi e solai



N.B.: Ogni variante che si renda necessaria, da esigenze di cantiere, deve essere prima autorizzata dalla Direzione Lavori

- Sovrapporre i ferri nelle riprese per almeno 60 diametri ;
- Impiegare distanziatori in plastica o pasta di cemento per garantire un copriferro (misurato dall'esterno ferro e non dal baricentro ferro) di almeno cm 2,5 per le travi e cm 3 per i pilastri (a meno di prescrizioni superiori per esigenze di REI) ;
- Estendere la rete nella soletta dei solai fino all'esterno cordolo o travi ;
- Sovrapporre le reti di cui sopra per almeno cm 20 ;
- Ancorare i ferri aggiuntivi superiori dei solai all'esterno delle travi di bordo, curando di tenere il baricentro a circa 2.5 cm dal filo superiore del getto della caldana del solaio ;
- Nella giunzione per sovrapposizione dei ferri, non legare i due ferri fra loro, ma tenerli distanziati di almeno cm 2 (interferro).

CARATTERISTICHE MATERIALI UTILIZZATI

LEGENDA TABELLA DATI MATERIALI

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

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

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

<i>Young</i>	modulo di elasticità normale
<i>Poisson</i>	coefficiente di contrazione trasversale
<i>G</i>	modulo di elasticità tangenziale
<i>Gamma</i>	peso specifico
<i>Alfa</i>	coefficiente di dilatazione termica

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

1	cemento armato	Rck Fctm	resistenza caratteristica cubica resistenza media a trazione semplice
2	acciaio	Ft Fy Fd Fdt Sadm Sadmt	tensione di rottura a trazione tensione di snervamento resistenza di calcolo resistenza di calcolo per spess. t>40 mm tensione ammissibile tensione ammissibile per spess. t>40 mm
3	muratura	Resist. Fk Resist. Fvko	resistenza caratteristica a compressione resistenza caratteristica a taglio
4	legno	Resist. fc0k Resist. ft0k Resist. fmk Resist. fvk Modulo E0,05 Lamellare	Resistenza caratteristica (tensione amm. per REGLES) per compressione Resistenza caratteristica (tensione amm. per REGLES) per trazione Resistenza caratteristica (tensione amm. per REGLES) per flessione Resistenza caratteristica (tensione amm. per REGLES) per taglio Modulo elastico parallelo caratteristico lamellare o massiccio

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

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:

Modellazione di strutture in c.a.

Test N°	Titolo
41	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
42	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
43	VERIFICA ALLE TA DI STRUTTURE IN C.A.
44	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
46	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
47	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
49	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
51	FATTORE DI STRUTTURA
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
54	PARETI IN C.A. SNELLE IN ZONA SISMICA
80	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
120	PROGETTO E VERIFICA DI TRAVI PREM

Modellazione di strutture in acciaio

Test N°	Titolo
55	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
56	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
57	LUCE LIBERA DI COLONNE IN ACCIAIO
58	SVERGOLAMENTO DI TRAVI IN ACCIAIO
59	FATTORE DI STRUTTURA

60	ACCIAIO D.M.2008
61	ACCIAIO EC3
62	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO
63	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA IRRIGIDIMENTI TRASVERSALI
74	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI UN PIATTO DI RINFORZO SALDATO ALL'ANIMA DELLA COLONNA
75	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI DUE PIATTI DI RINFORZO SALDATI ALL'ANIMA DELLA COLONNA
76	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A DUE VIE SU ALI COLONNA
77	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A UNA VIA CON DUE COMBINAZIONI DI CARICO
78	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO SU ANIMA SENZA RINFORZI A QUATTRO FILE DI BULLONI DI CUI UNA SU PIASTRA INFERIORE E UNA SU PIASTRA SUPERIORE
79	VERIFICA DELLA PIASTRA NODO TRAVE COLONNA
85	TELAIO ACCIAIO: CONTROVENTI CONCENTRICI

Modellazione di strutture in muratura

Test N°	Titolo
81	ANALISI PUSHOVER DI UNA STRUTTURA IN MURATURA
84	ANALISI ELASTO PLASTICA INCREMENTALE, PARETE IN MURATURA
86	VERIFICA NON SISMICA DELLE MURATURE (D.M. 87 TA)
87	VERIFICA NON SISMICA DELLE MURATURE (D.M. 2005 SL)
88	FATTORE DI STRUTTURA

Modellazione di strutture in legno

Test N°	Titolo
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17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
89	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
90	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
91	FATTORE DI STRUTTURA
92	VERIFICHE EC5
93	SNELLEZZE EC5
94	VERIFICA AL FUOCO DI STRUTTURE IN LEGNO SECONDO EC5
117	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
118	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI
119	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM

Id	Tipo / Note		Young	Poisson	G	Gamma	Alfa
		daN/ m2	daN/ m2		daN/ m2	daN/ m3	
1	Calcestruzzo Classe C25/30		3.145e+09	0.12	1.404e+09	2500.0	1.00e-05
	Rck	3.000e+06					
	fctm	2.558e+05					
11	acciaio Fe430 - S275		2.100e+10	0.30	8.077e+09	7850.0	1.00e-05
	ft	4.300e+07					
	fy	2.750e+07					
	fd	2.750e+07					
	fdt	2.500e+07					
	sadm	1.900e+07					
	sadmt	1.700e+07					
42	legno conifera C24 - UNI EN 338 1997 Per EC5		1.100e+09	0.0	6.900e+07	400.0	0.0
	Modulo E0,05		7.400e+08				
	Lamellare =No						
	Resist. fc0k	2.100e+06					
	Resist. ft0k	1.400e+06					
	Resist. fmk	2.400e+06					
	Resist. fvk	2.500e+05					
43	legno lamellare incollato omogeneo GL28h - UNI EN 1194 2000 Per EC5		1.260e+09	0.0	7.800e+07	400.0	0.0
	Modulo E0,05		1.020e+09				
	Lamellare =Si						
	Resist. fc0k	2.650e+06					
	Resist. ft0k	1.950e+06					
	Resist. fmk	2.800e+06					
	Resist. fvk	3.200e+05					
52	XLAM sp.140 (XLAM -1- vert)		5.500e+08	0.0	1.725e+07	930.0	0.0
	Modulo E0,05		5.500e+08				
	Lamellare =Si						
	Resist. fc0k	1.000e+04					
	Resist. ft0k	1.000e+04					
	Resist. fmk	1.000e+04					
	Resist. fvk	1.000e+04					
53	XLAM sp. 100 (XLAM -3- vert)		5.500e+08	0.0	1.725e+07	1100.0	0.0
	Modulo E0,05		5.500e+08				
	Lamellare =Si						
	Resist. fc0k	1.000e+04					
	Resist. ft0k	1.000e+04					
	Resist. fmk	1.000e+04					
	Resist. fvk	1.000e+04					
54	XLAM Solaio sp.200 (XLAM -2- oriz)		5.500e+08	0.0	2.760e+06	500.0	0.0
	Modulo E0,05		5.500e+08				

Id	Tipo / Note		Young	Poisson	G	Gamma	Alfa
	Lamellare =Si						
	Resist. fc0k	1.000e+04					
	Resist. ft0k	1.000e+04					
	Resist. fmk	1.000e+04					
	Resist. fvk	1.000e+04					
55	Xlam - Ascensore (XLAM -4- vert)		5.500e+08	0.0	1.725e+07	500.0	0.0
	Modulo E0,05		5.500e+08				
	Lamellare =Si						
	Resist. fc0k	1.000e+04					
	Resist. ft0k	1.000e+04					
	Resist. fmk	1.000e+04					
	Resist. fvk	1.000e+04					
56	Pannello soffice		3.700e+07	0.0	6.900e+07	0.0	0.0
	Modulo E0,05		2.489e+07				
	Lamellare =No						
	Resist. fc0k	0.0					
	Resist. ft0k	0.0					
	Resist. fmk	0.0					
	Resist. fvk	0.0					

Aste acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Beta assegnato	1.00	0.80	1.00			
Verifica come controvento	No	No	No			
Usa condizioni I e II	Si	Si	Si			
Coefficiente gamma M0	1.05	1.05	1.05			
Coefficiente gamma M1	1.05	1.05	1.05			
Coefficiente gamma M2	1.25	1.25	1.25			

Pilastri acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
Metodo di calcolo 2-2	Wood nodi fissi	Assegnato	Wood nodi fissi			
2-2 Beta assegnato	1.00	2.00	1.00			
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0			
Metodo di calcolo 3-3	Wood nodi fissi	Assegnato	Wood nodi fissi			
3-3 Beta assegnato	1.00	2.00	1.00			
3-3 Beta * L assegnato [cm]	0.0	0.0	0.0			
1-1 Beta assegnato	1.00	1.00	1.00			
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0			
Generalità						
Coefficiente gamma M0	1.05	1.05	1.05			
Coefficiente gamma M1	1.05	1.05	1.05			
Coefficiente gamma M2	1.25	1.25	1.25			
Effetti del 2 ordine	Si	Si	Si			
Momenti equivalenti	Si	Si	Si			
Usa condizioni I e II	Si	Si	Si			

Travi acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
3-3 Beta * L automatico	Si	Si	Si			
3-3 Beta assegnato	1.00	1.00	1.00			
3-3 Beta assegnato [cm]	0.0	0.0	0.0			
2-2 Beta * L automatico	Si	Si	Si			
2-2 Beta assegnato	1.00	1.00	1.00			
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0			
1-1 Beta * L automatico	Si	Si	Si			
1-1 Beta assegnato	1.00	1.00	1.00			
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0			
Generalità						
Coefficiente gamma M0	1.05	1.05	1.05			
Coefficiente gamma M1	1.05	1.05	1.05			

Travi acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Coefficiente gamma M2	1.25	1.25	1.25			
Luce di taglio per GR [cm]	1.00	1.00	1.00			
Usa condizioni I e II	Si	Si	Si			
Momenti equivalenti	Si	Si	Si			

Pareti c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Singolo elemento	Singolo elemento	Singolo elemento			
Armatura						
Inclinazione Av [gradi]	90.00	90.00	90.00			
Angolo Av-Ao [gradi]	90.00	90.00	90.00			
Minima tesa	0.20	0.20	0.20			
Massima tesa	4.00	4.00	4.00			
Maglia unica centrale	No	No	No			
Unico strato verticale	No	No	No			
Unico strato orizzontale	No	No	No			
Copriferro [cm]	2.00	3.00	2.00			
Maglia V						
diametro	14	12	14			
passo	20	20	20			
diametro aggiuntivi	12	12	12			
Maglia O						
diametro	10	10	10			
passo	20	20	20			
diametro aggiuntivi	8	10	8			
Stati limite ultimi						
Tensione fy [daN/ m2]	4.500e+07	4.500e+07	4.500e+07			
Tipo acciaio	tipo C	tipo C	tipo C			
Coefficiente gamma s	1.15	1.15	1.15			
Coefficiente gamma c	1.50	1.50	1.50			
Fattore di confidenza FC	0.0	0.0	0.0			
Verifiche con N costante	Si	Si	Si			
Tensioni ammissibili						
Tensione amm. cls [daN/ m2]	975000.00	975000.00	975000.00			
Tensione amm. acciaio [daN/ m2]	2.600e+07	2.600e+07	2.600e+07			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
Parete sismica						
Fattore amplificazione taglio V	1.50	1.50	1.50			
Hcrit. par. 7.4.4.5.1 [cm]	0.0	0.0	0.0			
Hcrit. par. 7.4.6.1.4 [cm]	0.0	0.0	0.0			
Usa diagramma di fig. 7.4.2	No	No	No			
Vincolo lati	nessun lato	nessun lato	nessun lato			
Verifica come fascia	No	No	No			
Diametro di estremità	0	0	0			
Zona confinata						
Minima tesa	1.00	1.00	1.00			
Massima tesa	4.00	4.00	4.00			
Distanza barre [cm]	2.00	2.00	2.00			
Interferro	2	2	2			
Armatura inclinata						
Area barre [cm2]	0.0	0.0	0.0			
Angolo orizzontale [gradi]	0.0	0.0	0.0			
Distanza di base [cm]	0.0	0.0	0.0			
Resistenza al fuoco						
3- intradosso	No	No	No			
3+ estradosso	No	No	No			
Tempo di esposizione R	15	15	15			

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Armatura						
Inclinazione Ax [gradi]	0.0	0.0	0.0			
Angolo Ax-Ay [gradi]	90.00	90.00	90.00			
Minima tesa	0.20	0.20	0.31			
Massima tesa	0.20	0.20	0.78			

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Maglia unica centrale	No	No	No			
Copriferro [cm]	3.00	3.00	2.00			
Maglia x						
diametro	16	16	14			
passo	20	20	20			
diametro aggiuntivi	16	16	14			
Maglia y						
diametro	16	16	14			
passo	20	20	20			
diametro aggiuntivi	16	16	14			
Stati limite ultimi						
Tensione fy [daN/ m2]	4.500e+07	4.500e+07	4.500e+07			
Tipo acciaio	tipo C	tipo C	tipo C			
Coefficiente gamma s	1.15	1.15	1.15			
Coefficiente gamma c	1.50	1.50	1.50			
Fattore di confidenza FC	0.0	0.0	0.0			
Verifiche con N costante	Si	Si	Si			
Applica SLU da DIN	No	No	No			
Tensioni ammissibili						
Tensione amm. cls [daN/ m2]	975000.00	975000.00	975000.00			
Tensione amm. acciaio [daN/ m2]	2.600e+07	2.600e+07	2.600e+07			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
Resistenza al fuoco						
3- intradosso	No	No	No			
3+ estradosso	No	No	No			
Tempo di esposizione R	15	15	15			

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetta a filo	Si	Si	Si			
Af inf: da q*L*L /	0.0	0.0	0.0			
Armatura						
Minima tesa	0.31	0.31	0.31			
Minima compressa	0.31	0.31	0.31			
Massima tesa	0.78	0.78	0.78			
Da sezione	Si	Si	Si			
Usa armatura teorica	No	No	No			
Stati limite ultimi						
Tensione fy [daN/ m2]	4.500e+07	4.500e+07	4.500e+07			
Tensione fy staffe [daN/ m2]	4.500e+07	4.500e+07	4.500e+07			
Tipo acciaio	tipo C	tipo C	tipo C			
Coefficiente gamma s	1.15	1.15	1.15			
Coefficiente gamma c	1.50	1.50	1.50			
Fattore di confidenza FC	0.0	0.0	0.0			
Verifiche con N costante	Si	Si	Si			
Fattore di ridistribuzione	0.0	0.0	0.0			
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander	Mander			
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03			
Fattore lambda	1.00	1.00	1.00			
epsilon max,s	4.000e-02	4.000e-02	4.000e-02			
epsilon cu2	4.500e-03	4.500e-03	4.500e-03			
epsilon c2	0.0	0.0	0.0			
epsilon cy	0.0	0.0	0.0			
Tensioni ammissibili						
Tensione amm. cls [daN/ m2]	975000.00	975000.00	975000.00			
Tensione amm. acciaio [daN/ m2]	2.600e+07	2.600e+07	2.600e+07			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
Staffe						
Diametro staffe	10.00	0.0	8.00			
Passo minimo [cm]	5.00	5.00	5.00			
Passo massimo [cm]	30.00	30.00	30.00			
Passo raffittito [cm]	15.00	15.00	15.00			
Lunghezza zona raffittita [cm]	50.00	50.00	50.00			
Ctg(Teta) Max	2.50	2.50	2.50			
Percentuale sagomati	0.0	0.0	0.0			
Luce di taglio per GR [cm]	0.0	1.00	0.0			
Adotta scorrimento medio	No	No	No			

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Torsione non essenziale inclusa	Si	Si	Si			

Pilastrici c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Privilegia lati	Privilegia lati	Privilegia lati			
Progetta a filo	No	No	No			
Effetti del 2 ordine	Si	Si	Si			
Beta per 2-2	1.00	1.00	1.00			
Beta per 3-3	1.00	1.00	1.00			
Armatura						
Massima tesa	4.00	4.00	4.00			
Minima tesa	1.00	1.00	1.00			
Stati limite ultimi						
Tensione fy [daN/ m2]	4.500e+07	4.500e+07	4.500e+07			
Tensione fy staffe [daN/ m2]	4.500e+07	4.500e+07	4.500e+07			
Tipo acciaio	tipo C	tipo C	tipo C			
Coefficiente gamma s	1.15	1.15	1.15			
Coefficiente gamma c	1.50	1.50	1.50			
Fattore di confidenza FC	0.0	0.0	0.0			
Verifiche con N costante	Si	Si	Si			
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander	Mander			
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03			
Fattore lambda	1.00	1.00	1.00			
epsilon max,s	4.000e-02	4.000e-02	4.000e-02			
epsilon cu2	4.500e-03	4.500e-03	4.500e-03			
epsilon c2	0.0	0.0	0.0			
epsilon cy	0.0	0.0	0.0			
Tensioni ammissibili						
Tensione amm. cls [daN/ m2]	975000.00	975000.00	975000.00			
Tensione amm. acciaio [daN/ m2]	2.600e+07	2.600e+07	2.600e+07			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Staffe						
Diametro staffe	10.00	0.0	10.00			
Passo minimo [cm]	5.00	5.00	5.00			
Passo massimo [cm]	25.00	25.00	25.00			
Passo raffittito [cm]	15.00	15.00	15.00			
Lunghezza zona raffittita [cm]	45.00	45.00	45.00			
Ctg(Teta) Max	2.50	2.50	2.50			
Luce di taglio per GR [cm]	0.0	1.00	0.0			
Massimizza gerarchia	No	Si	No			

Solai c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	No	No	No			
Af inf: da traliccio	Si	Si	Si			
Consenti armatura a taglio	No	No	No			
Incrementa armatura longitudinale per taglio	Si	Si	Si			
Af inf: da q*L*L /	20.00	20.00	20.00			
Incremento fascia piena [cm]	5.00	5.00	5.00			
Armatura						
Minima tesa	0.15	0.15	0.15			
Massima tesa	3.00	3.00	3.00			
Minima compressa	0.0	0.0	0.0			
Af/h [cm]	7.000e-02	7.000e-02	7.000e-02			
Stati limite ultimi						
Tensione fy [daN/ m2]	4.500e+07	4.500e+07	4.500e+07			
Tipo acciaio	tipo C	tipo C	tipo C			
Coefficiente gamma s	1.15	1.15	1.15			
Coefficiente gamma c	1.50	1.50	1.50			
Fattore di redistribuzione	0.0	0.0	0.0			
Tensioni ammissibili						
Tensione amm. cls [daN/ m2]	850000.00	850000.00	850000.00			
Tensione amm. acciaio [daN/ m2]	2.600e+07	2.600e+07	2.600e+07			
Rapporto omogeneizzazione N	15.00	15.00	15.00			

Solai c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
Verifica freccia						
Infinita	250.00	500.00	250.00			
Istantanea	500.00	1000.00	500.00			
Fattore viscosità	3.00	3.00	3.00			
Usa J non fessurato	No	No	No			

Legno	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
aste						
Beta assegnato	0.80	0.80	0.80			
travi						
3-3 Beta * L automatico	Si	Si	Si			
3-3 Beta assegnato	1.00	1.00	1.00			
3-3 Beta * L assegnato [cm]	0.0	0.0	0.0			
2-2 Beta * L automatico	Si	Si	Si			
2-2 Beta assegnato	1.00	1.00	1.00			
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0			
1-1 Beta * L automatico	Si	Si	Si			
1-1 Beta assegnato	1.00	1.00	1.00			
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0			
pilastrì						
Metodo di calcolo 3-3	Wood nodi spostabili	Assegnato	Wood nodi spostabili			
3-3 Beta assegnato	2.00	2.00	2.00			
3-3 Beta * L assegnato [cm]	0.0	0.0	0.0			
Metodo di calcolo 2-2	Wood nodi spostabili	Assegnato	Wood nodi spostabili			
2-2 Beta assegnato	2.00	2.00	2.00			
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0			
1-1 Beta assegnato	1.00	1.00	1.00			
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0			
Generalità						
Gamma non sismico	1.50	1.50	1.50			
Gamma sismico	1.50	1.10	1.50			
Fattore di confidenza FC	0.0	0.0	0.0			
Classificazione						
Classe di servizio	2 (media umidità)	2 (media umidità)	2 (media umidità)			
Per classe di servizio 1						
Kmod permanente	0.60	0.60	0.60			
Kmod lunga	0.70	0.70	0.70			
Kmod media	0.80	0.80	0.80			
Kmod breve	0.90	0.90	0.90			
Kmod istantanea	1.00	1.00	1.00			
Kdef	0.60	0.60	0.60			
Per classe di servizio 2						
Kmod permanente	0.60	0.60	0.60			
Kmod lunga	0.70	0.70	0.70			
Kmod media	0.80	0.80	0.80			
Kmod breve	0.90	0.90	0.90			
Kmod istantanea	1.00	1.00	1.00			
Kdef	0.80	0.80	0.80			
Per classe di servizio 3						
Kmod permanente	0.50	0.50	0.50			
Kmod lunga	0.55	0.55	0.55			
Kmod media	0.65	0.65	0.65			
Kmod breve	0.70	0.70	0.70			
Kmod istantanea	0.90	0.90	0.90			
Kdef	2.00	2.00	2.00			

XLAM	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
L direzione 1 [*] [cm]	1.00	1.00	1.00			
L direzione 2 [cm]	0.0	0.0	0.0			
Verifica V da D.38	No	No	No			
Verifica M da M.5-45	Si	Si	Si			
Media valori elementi	Si	Si	Si			

XLAM	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Connessioni pareti						
rvpk [daN/ m]	5000.00	5000.00	5000.00			
rvtk [daN/ m]	5000.00	5000.00	5000.00			
rvlk [daN/ m]	5000.00	5000.00	5000.00			
RHk [daN]	5000.00	5000.00	5000.00			
dH [cm]	25.00	25.00	25.00			
fcH90k [daN/ m2]	200000.00	200000.00	200000.00			
Pannelli solaio						
f ist<L/	500.00	500.00	500.00			
f inf<L/	350.00	350.00	350.00			
Verifica vibrazioni (EC5 7.3)	No	No	No			
E massetto collaborante [daN/ m2]	2.000e+09	2.000e+09	2.000e+09			
t massetto collaborante [cm]	4.00	4.00	4.00			
Smorzamento percentuale	0.0	0.0	0.0			
Resistenza al fuoco						
Spessore carbonizzazione [cm]	0.0	0.0	0.0			
3- intradosso	No	No	No			
3+ estradosso	No	No	No			

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

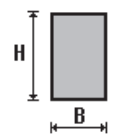
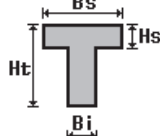
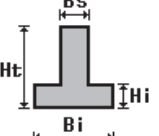
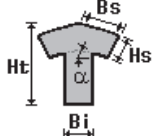
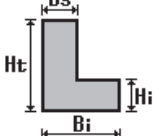
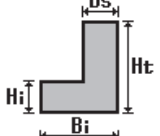
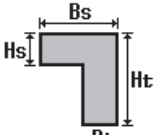
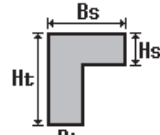
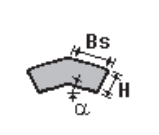
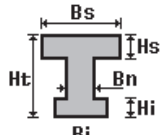
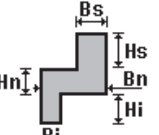
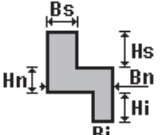
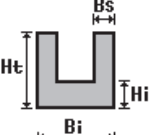
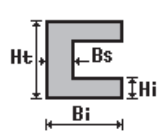
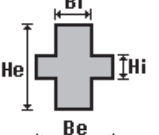
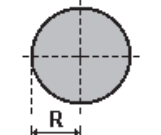
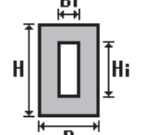
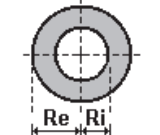
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

- 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
1	Rettangolare: b=30.00 h=24.00	720.00	600.00	600.00	7.126e+04	5.400e+04	3.456e+04	3600.00	2880.00	5400.00	4320.00
2	Rettangolare: b=40.00 h=24.00	960.00	800.00	800.00	1.146e+05	1.280e+05	4.608e+04	6400.00	3840.00	9600.00	5760.00
3	T ribassata: bi=20.00 ht=54.00 bs=40.00 hs=24.00	1560.00	0.0	0.0	2.250e+05	1.480e+05	3.602e+05	7400.00	1.139e+04	1.260e+04	1.971e+04
4	L inv.ribas.: bi=20.00 ht=54.00 bs=40.00 hs=24.00	1560.00	0.0	0.0	2.250e+05	1.849e+05	3.602e+05	7754.84	1.139e+04	1.393e+04	1.971e+04
5	Rettangolare: b=10.00 h=32.00	320.00	266.67	266.67	8566.67	2666.67	2.731e+04	533.33	1706.67	800.00	2560.00
6	Rettangolare: b=10.00 h=52.00	520.00	433.33	433.33	1.523e+04	4333.33	1.172e+05	866.67	4506.67	1300.00	6760.00
7	Rettangolare cava: b =12.00 h =18.00 bi=10.00 hi=16.00	56.00	0.0	0.0	2497.79	1258.67	2418.67	209.78	268.74	248.00	332.00
8	Rettangolare cava: b =12.00 h =12.00 bi=10.00 hi=10.00	44.00	0.0	0.0	1331.00	894.67	894.67	149.11	149.11	182.00	182.00
9	Rettangolare: b=16.00 h=24.00	384.00	320.00	320.00	1.901e+04	8192.00	1.843e+04	1024.00	1536.00	1536.00	2304.00
10	Rettangolare: b=20.00 h=30.00	600.00	500.00	500.00	4.640e+04	2.000e+04	4.500e+04	2000.00	3000.00	3000.00	4500.00
11	Rettangolare: b=100.00 h=5.00	500.00	416.67	416.67	4035.42	4.167e+05	1041.67	8333.33	416.67	1.250e+04	625.00

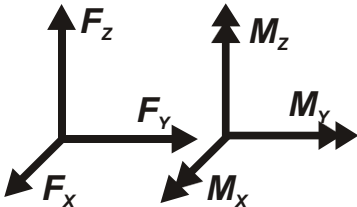
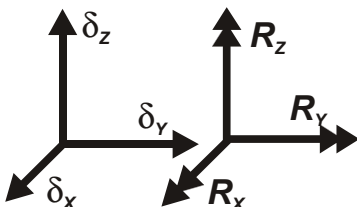
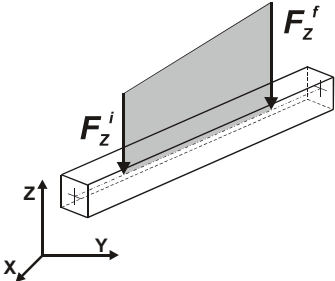
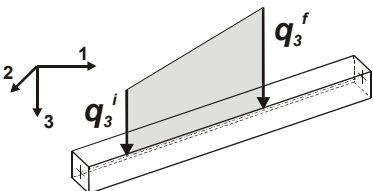
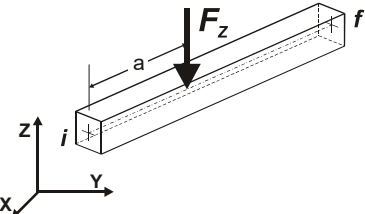
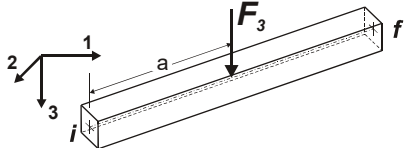
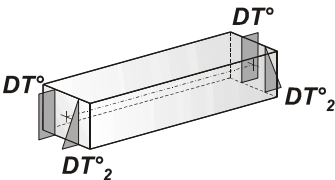
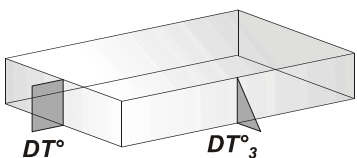
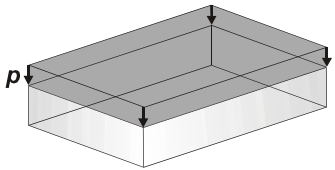
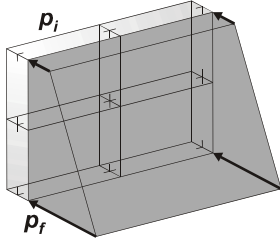
MODELLAZIONE DELLE AZIONI

LEGENDA TABELLA DATI AZIONI

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

1	carico concentrato nodale 6 dati (forza F_x , F_y , F_z , momento M_x , M_y , M_z)
2	spostamento nodale impresso 6 dati (spostamento T_x, T_y, T_z , rotazione R_x, R_y, R_z)
3	carico distribuito globale su elemento tipo trave 7 dati ($f_x, f_y, f_z, m_x, m_y, m_z$, ascissa di inizio carico) 7 dati ($f_x, f_y, f_z, m_x, m_y, m_z$, ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati ($f_1, f_2, f_3, m_1, m_2, m_3$, ascissa di inizio carico) 7 dati ($f_1, f_2, f_3, m_1, m_2, m_3$, ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati ($F_x, F_y, F_z, M_x, M_y, M_z$, ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati ($F_1, F_2, F_3, M_1, M_2, M_3$, ascissa di carico)
7	variazione termica applicata ad elemento tipo trave 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	carico di pressione uniforme su elemento tipo piastra 1 dato (pressione)
9	carico di pressione variabile su elemento tipo piastra 4 dati (pressione, quota, pressione, quota)
10	variazione termica applicata ad elemento tipo piastra 2 dati (variazioni termiche: media e differenza nello spessore)

11	carico variabile generale su elementi tipo trave e piastra 1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	gruppo di carichi con impronta su piastra 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell'impronta, interasse tra i carichi)

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

Tipo carico di pressione uniforme su piastra

Id	Tipo	pressione
		kg/ m2
7	Vento +X da sinistra	80.00
8	Vento -X da sinistra	16.00
9	Vento +X da destra	80.00
10	Vento -X da destra	16.00
11	Vento +Y dal basso	80.00
12	Vento -Y dal basso	16.00
13	Vento +Y dall'alto	80.00
14	Vento -Y dall'alto	16.00

Tipo carico variabile generale

Id	Tipo	ascissa	valore	ascissa	valore
		m	kg/ m2	m	kg/ m2
1	Permanente platea				
	X - X Qz Area L2=0.0	0.0	-620.00	5000.00	-620.00
2	Variabili platea				
	X - X Qz Area L2=0.0	0.0	-200.00	5000.00	-200.00
3	Permanenti extrasagoma				
	X - X Qx Area L2=0.0	0.0	-300.00	5000.00	-300.00
4	Variabili extrasagoma				
	X - X Qx Area L2=0.0	0.0	-400.00	5000.00	-400.00
5	Permanenti copertura				
	X - X Qx Area L2=0.0	0.0	-30.00	5000.00	-30.00
6	Neve copertura				
	X - X Qx Area L2=0.0	0.0	-80.00	3000.00	-80.00

SCHEMATIZZAZIONE DEI CASI DI CARICO

LEGENDA TABELLA CASI DI CARICO

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

Sono previsti i seguenti 11 tipi di casi di carico:

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

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

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

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

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

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

Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso: *Numero Tipo e Sigla identificativa, Valore di riferimento* del caso di carico (se previsto).

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

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

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qsk	CDC=Qsk (variabile solai)	
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=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=Qsk (variabile solai)
			partecipazione:1.00 per 13 Permanenti platea
			partecipazione:0.80 per 14 Variabili platea
			partecipazione:1.00 per 15 Permanenti estrasagoma
			partecipazione:0.80 per 16 Variabili estrasagoma
			partecipazione:1.00 per 17 Portati copertura
			partecipazione:0.80 per 18 Neve
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 SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
15	Gk	Permanenti estrasagoma	D3 :da 6253 a 6363 Azione : Permanenti estrasagoma
16	Qk	Variabili estrasagoma	D3 :da 6253 a 6363 Azione : Variabili estrasagoma

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.I

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

		Coefficiente γ_f	EQU	A1	A2
Carichi permanenti	Favorevoli	γ_{G1}	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	γ_{G2}	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γ_{Qi}	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	Comb. SLU A1 13	
14	SLU	Comb. SLU A1 14	
15	SLU	Comb. SLU A1 15	
16	SLU	Comb. SLU A1 16	
17	SLU	Comb. SLU A1 17	
18	SLU	Comb. SLU A1 18	
19	SLU	Comb. SLU A1 19	
20	SLU	Comb. SLU A1 20	
21	SLU	Comb. SLU A1 21	
22	SLU	Comb. SLU A1 22	
23	SLU	Comb. SLU A1 23	
24	SLU	Comb. SLU A1 24	
25	SLU	Comb. SLU A1 25	
26	SLU	Comb. SLU A1 26	
27	SLU	Comb. SLU A1 27	
28	SLU	Comb. SLU A1 28	
29	SLU	Comb. SLU A1 29	
30	SLU	Comb. SLU A1 30	
31	SLU	Comb. SLU A1 31	
32	SLU	Comb. SLU A1 32	
33	SLU	Comb. SLU A1 33	
34	SLU	Comb. SLU A1 34	
35	SLU	Comb. SLU A1 35	
36	SLU	Comb. SLU A1 36	
37	SLE(r)	Comb. SLE(rara) 37	
38	SLE(r)	Comb. SLE(rara) 38	
39	SLE(r)	Comb. SLE(rara) 39	
40	SLE(r)	Comb. SLE(rara) 40	
41	SLE(r)	Comb. SLE(rara) 41	
42	SLE(r)	Comb. SLE(rara) 42	
43	SLE(r)	Comb. SLE(rara) 43	
44	SLE(r)	Comb. SLE(rara) 44	
45	SLE(r)	Comb. SLE(rara) 45	
46	SLE(r)	Comb. SLE(rara) 46	
47	SLE(r)	Comb. SLE(rara) 47	
48	SLE(r)	Comb. SLE(rara) 48	
49	SLE(r)	Comb. SLE(rara) 49	
50	SLE(r)	Comb. SLE(rara) 50	
51	SLE(r)	Comb. SLE(rara) 51	
52	SLE(r)	Comb. SLE(rara) 52	
53	SLE(r)	Comb. SLE(rara) 53	
54	SLE(r)	Comb. SLE(rara) 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	
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	

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

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0
	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.90						
2	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	1.50
	1.50	1.50	1.50	1.50	0.0	0.0	0.0	0.90						
3	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90						

[illegible]

	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...
	1.00	0.70	1.00	0.50	0.0	0.0	0.0	1.00						
41	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
	1.00	0.0	1.00	0.0	0.0	0.0	0.60	0.0						
42	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
	1.00	1.00	1.00	1.00	0.0	0.0	0.60	0.0						
43	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
	1.00	0.0	1.00	0.0	0.0	0.0	1.00	0.0						
44	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.70
	1.00	0.70	1.00	0.50	0.0	0.0	1.00	0.0						
45	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
	1.00	0.0	1.00	0.0	0.0	0.60	0.0	0.0						
46	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
	1.00	1.00	1.00	1.00	0.0	0.60	0.0	0.0						
47	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
	1.00	0.0	1.00	0.0	0.0	1.00	0.0	0.0						
48	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.70
	1.00	0.70	1.00	0.50	0.0	1.00	0.0	0.0						
49	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
	1.00	0.0	1.00	0.0	0.60	0.0	0.0	0.0						
50	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
	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0						
51	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
	1.00	0.0	1.00	0.0	1.00	0.0	0.0	0.0						
52	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.70
	1.00	0.70	1.00	0.50	1.00	0.0	0.0	0.0						
53	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
	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0						
54	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
	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0						
55	1.00	1.00	1.00	0.30	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
56	1.00	1.00	1.00	0.30	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
57	1.00	1.00	1.00	0.30	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
58	1.00	1.00	1.00	0.30	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
59	1.00	1.00	1.00	0.30	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
60	1.00	1.00	1.00	0.30	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
61	1.00	1.00	1.00	0.30	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
62	1.00	1.00	1.00	0.30	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
63	1.00	1.00	1.00	0.30	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
64	1.00	1.00	1.00	0.30	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
65	1.00	1.00	1.00	0.30	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
66	1.00	1.00	1.00	0.30	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
67	1.00	1.00	1.00	0.30	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
68	1.00	1.00	1.00	0.30	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
69	1.00	1.00	1.00	0.30	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
70	1.00	1.00	1.00	0.30	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
71	1.00	1.00	1.00	0.30	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
72	1.00	1.00	1.00	0.30	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
73	1.00	1.00	1.00	0.30	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
74	1.00	1.00	1.00	0.30	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
75	1.00	1.00	1.00	0.30	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
76	1.00	1.00	1.00	0.30	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						

	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...
77	1.00	1.00	1.00	0.30	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0							
78	1.00	1.00	1.00	0.30	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
79	1.00	1.00	1.00	0.30	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
80	1.00	1.00	1.00	0.30	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
81	1.00	1.00	1.00	0.30	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
82	1.00	1.00	1.00	0.30	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
83	1.00	1.00	1.00	0.30	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
84	1.00	1.00	1.00	0.30	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
85	1.00	1.00	1.00	0.30	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
86	1.00	1.00	1.00	0.30	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
87	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
88	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
89	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
90	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
91	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
92	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
93	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
94	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
95	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
96	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
97	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
98	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
99	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
100	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
101	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
102	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
103	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
104	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
105	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
106	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
107	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
108	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
109	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
110	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
111	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
112	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
113	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	1.00	0.30

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...
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
114	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
115	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
116	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
117	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
118	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
119	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
	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0						
120	1.00	1.00	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.50
	1.00	0.70	1.00	0.20	0.0	0.0	0.0	0.0						
121	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
	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.20						
122	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.20						
123	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
	1.00	0.0	1.00	0.0	0.0	0.0	0.20	0.0						
124	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.20	0.0						
125	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
	1.00	0.0	1.00	0.0	0.0	0.20	0.0	0.0						
126	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.20	0.0	0.0						
127	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
	1.00	0.0	1.00	0.0	0.20	0.0	0.0	0.0						
128	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.20	0.0	0.0	0.0						
129	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
	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0						
130	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						
131	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
	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0						
132	1.00	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30
	1.00	0.60	1.00	0.0	0.0	0.0	0.0	0.0						

AZIONE SISMICA

VALUTAZIONE DELL' AZIONE SISMICA

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

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

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

ag: accelerazione orizzontale massima del terreno;

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

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

Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
II	50.0	1.0	50.0	A	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 $S = S_s \cdot S_t$ (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.	11.485	43.822	
19840	11.481	43.818	0.547
19841	11.550	43.819	5.208
19619	11.549	43.869	7.301
19618	11.479	43.868	5.121

SL	P _{ver}	T _r	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	30.0	0.056	2.500	0.260
SLD	63.0	50.0	0.069	2.490	0.270
SLV	10.0	475.0	0.169	2.390	0.300
SLC	5.0	975.0	0.215	2.380	0.300

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.056	1.000	2.500	0.797	0.087	0.260	1.823
SLD	0.069	1.000	2.490	0.886	0.090	0.270	1.878
SLV	0.169	1.000	2.390	1.327	0.100	0.300	2.276
SLC	0.215	1.000	2.380	1.490	0.100	0.300	2.460

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/L_s (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - azione sismica complessiva
- b) **analisi sismica dinamica con spettro di risposta:**
 - quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/L_s (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
 - massa complessiva ed aliquota di massa complessiva eccitata.

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

Qualora si applichi il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") l'analisi sismica dinamica può essere comprensiva di sollecitazione verticale contemporanea a quella orizzontale, nel qual caso è effettuata una sovrapposizione degli effetti in ragione della radice dei quadrati degli effetti stessi. Per ciascuna combinazione sismica - analisi effettuate con il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") - viene riportato il livello di deformazione ϵ_{dT} , ϵ_{dP} e ϵ_{dD} degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità $1000 \cdot \epsilon_{dT}/h$ 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 A_2 , 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 Ar (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) $Sig s < f_{yk}$
- 3) $Gam t < 5$
- 4) $Gam s < Gam *$ (caratteristica dell' elastomero)
- 5) $Gam s < 2$
- 6) $V < 0.5 V_{cr}$

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: A
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.404 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.337 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 30
			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
m	kg	m	m	m	m	m	m			
15.18	1902.25	14.84	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.10	29.36	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.09	26.62	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	72.66	25.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	13.13	19.23	7.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	46.36	24.94	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	25.89	5.55	8.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.05	44.33	24.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.04	40.78	23.91	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	62.85	25.69	8.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	45.20	23.38	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.02	46.02	22.88	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	2183.18	15.45	8.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	33.78	12.71	8.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	50.89	25.69	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	47.76	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	53.74	22.33	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	41.85	21.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	33.71	24.95	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.98	60.13	20.77	7.75	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.97	37.74	24.43	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	19.36	19.09	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	47.04	20.75	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	29.68	23.90	6.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	45.25	20.25	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	42.10	19.78	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	38.63	23.38	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	35.81	19.23	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	31.07	22.89	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	76.02	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.41	19.09	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.61	19.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	11.00	18.80	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	13.66	18.72	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	44.88	22.33	6.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	25.25	18.19	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	51.34	24.96	6.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.90	73.95	19.53	7.25	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.90	56.48	24.43	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	55.40	5.18	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	108.22	24.02	8.07	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.89	68.16	17.11	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	24.23	19.04	7.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	42.57	23.90	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	33.36	20.75	6.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	50.98	16.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	28.88	5.55	8.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	95.69	21.99	6.57	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.86	43.81	15.99	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	81.15	17.32	7.24	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.85	42.26	22.90	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	45.72	19.09	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	21.49	19.23	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	14.33	19.04	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	2166.91	15.46	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	37.62	19.23	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	57.98	14.87	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	33.82	12.74	9.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	60.43	22.33	6.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	54.76	12.31	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	49.95	14.37	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	41.88	21.71	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	57.61	18.19	6.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.81	60.47	13.76	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	50.50	21.28	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	66.21	18.32	6.70	0.0	-0.01	0.0	0.0	0.0	0.0	0.0
14.80	49.12	13.13	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	41.49	12.68	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	40.91	20.76	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	74.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	64.44	17.11	6.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	69.15	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	50.65	20.25	6.17	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
14.77	41.97	16.44	6.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	59.20	11.64	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	45.20	15.99	6.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	39.94	19.79	6.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	48.86	24.98	5.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	82.06	13.30	7.17	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.75	65.62	5.18	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	91.84	18.66	6.23	0.0	-0.11	0.0	0.0	0.0	0.0	0.0
14.74	41.81	19.23	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	53.77	14.87	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	54.75	19.04	6.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	44.28	10.28	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	38.73	23.88	5.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	47.90	18.19	6.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	40.12	14.37	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	56.20	9.63	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	46.80	23.38	5.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	55.95	13.76	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	19.29	5.55	9.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	43.28	9.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	36.79	22.91	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	66.54	22.45	5.33	0.0	-0.06	0.0	0.0	0.0	0.0	0.0
14.70	39.15	13.15	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	47.76	8.58	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	8.57	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	82.15	23.30	5.10	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.69	41.66	12.68	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	64.98	25.69	9.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	40.65	7.98	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	98.72	20.91	8.04	0.0	-0.24	0.0	0.0	0.0	0.0	0.0
14.68	51.42	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	23.38	19.23	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	34.63	21.68	5.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	38.48	7.53	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	2155.67	15.46	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	24.65	23.88	4.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	52.29	11.64	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	108.05	18.65	5.67	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.67	42.90	7.12	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	33.74	12.78	9.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	30.01	23.38	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	42.90	16.46	5.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.96	11.10	6.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	47.78	15.99	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.21	20.76	5.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	161.15	14.45	7.70	0.0	-0.25	0.0	0.0	0.0	0.0	0.0
14.65	53.25	6.48	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	74.78	13.26	6.39	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.65	85.63	19.12	5.41	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.64	35.70	22.33	4.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	58.99	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	48.70	5.86	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	47.83	9.63	6.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	12.67	5.55	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	54.81	14.87	6.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	29.85	19.80	5.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	23.90	21.68	4.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	31.06	9.03	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	57.39	24.99	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	124.35	11.81	6.45	0.0	-0.13	0.0	0.0	0.0	0.0	0.0
14.62	30.81	19.23	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	37.30	8.58	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	44.60	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	23.17	20.76	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	59.43	24.43	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	56.36	13.76	6.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	29.12	8.06	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	28.47	20.25	4.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	33.29	7.53	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	48.91	23.87	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	101.08	8.29	8.50	0.0	-0.20	0.0	0.0	0.0	0.0	0.0
14.60	22.45	19.80	4.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	27.69	7.13	6.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	52.84	23.38	4.31	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
14.59	42.20	12.68	6.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	23.80	19.23	4.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	49.03	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	75.55	12.25	6.06	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.58	48.36	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	51.04	11.64	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	31.38	5.86	7.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	32.99	11.14	6.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	64.86	22.33	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	38.89	10.65	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	31.88	5.18	7.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	146.37	17.62	5.03	0.0	-8.90e-03	0.0	0.0	0.0	0.0	0.0
14.56	32.25	10.26	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	55.89	13.99	6.34	0.0	-0.25	0.0	0.0	0.0	0.0	0.0
14.55	147.60	15.87	5.26	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.54	31.04	9.02	6.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.54	90.90	18.55	4.75	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.54	36.68	8.58	6.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	29.16	8.06	6.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	50.15	20.76	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	54.89	14.87	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	57.90	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	33.37	7.53	6.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	93.14	17.65	4.74	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.52	27.70	7.14	6.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	68.17	19.09	10.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	26.22	19.23	10.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	50.49	25.01	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	52.36	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	44.85	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	98.59	10.64	5.79	0.0	-0.06	0.0	0.0	0.0	0.0	0.0
14.51	2143.44	15.45	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	42.10	5.86	6.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	58.75	24.43	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	51.17	5.18	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	85.24	16.43	4.77	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.50	33.71	12.81	10.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	38.93	19.04	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	41.96	23.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	42.73	12.68	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	49.70	12.31	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	115.87	12.02	8.37	0.0	-0.26	0.0	0.0	0.0	0.0	0.0
14.48	71.77	18.59	5.40	0.0	-0.36	0.0	0.0	0.0	0.0	0.0
14.48	33.03	11.18	5.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	40.40	18.19	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	40.51	10.65	5.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	32.24	10.25	5.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	41.71	22.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	77.47	12.75	5.13	0.0	-0.07	0.0	0.0	0.0	0.0	0.0
14.46	31.03	9.00	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	36.32	8.58	5.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	61.15	22.33	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	29.16	8.06	5.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	81.17	13.19	4.95	0.0	-0.08	0.0	0.0	0.0	0.0	0.0
14.45	53.19	5.18	10.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	62.57	12.35	5.05	0.0	-0.08	0.0	0.0	0.0	0.0	0.0
14.44	42.30	15.99	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	41.44	21.64	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	70.62	11.58	5.11	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.44	37.13	15.51	4.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.43	46.91	21.28	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	47.98	14.87	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	40.54	20.77	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	34.09	18.19	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	37.05	14.39	4.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	52.68	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	49.41	20.25	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	24.33	17.78	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	50.73	13.76	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	39.65	19.82	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	48.87	25.02	2.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	37.87	13.19	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	37.36	17.11	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	36.83	5.85	5.71	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
14.39	98.90	22.17	3.03	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.39	41.32	12.68	4.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	46.37	12.31	4.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	84.53	14.79	4.20	0.0	-0.06	0.0	0.0	0.0	0.0	0.0
14.38	33.06	11.21	4.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	42.13	10.65	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	32.23	10.23	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	47.80	9.63	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.42	16.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	31.02	8.99	5.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.96	8.58	5.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	29.16	8.06	5.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	71.09	16.28	3.90	0.0	-0.13	0.0	0.0	0.0	0.0	0.0
14.37	27.70	7.15	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	41.29	15.99	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	47.61	23.38	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	40.74	6.48	5.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	36.90	15.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	35.60	22.81	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	38.11	18.19	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	24.69	5.85	5.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	95.54	23.95	6.77	0.0	-0.43	0.0	0.0	0.0	0.0	0.0
14.35	43.75	14.87	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	38.27	5.18	5.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	2152.58	15.49	11.11	0.0	-0.39	0.0	0.0	0.0	0.0	0.0
14.33	38.23	14.39	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	32.96	21.62	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	51.49	10.54	9.49	0.0	-0.30	0.0	0.0	0.0	0.0	0.0
14.32	35.54	21.28	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.20	17.11	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	26.45	5.55	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.78	13.76	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	30.24	20.77	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	17.50	13.35	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	20.21	13.20	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	67.82	12.31	11.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	52.95	16.50	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	120.45	15.85	7.67	0.0	-0.48	0.0	0.0	0.0	0.0	0.0
14.30	67.88	14.13	3.69	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.30	28.18	8.06	4.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	61.06	7.93	4.68	0.0	-0.01	0.0	0.0	0.0	0.0	0.0
14.30	28.20	8.98	4.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	48.32	25.04	1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	131.70	13.03	3.83	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.29	54.92	15.04	3.48	0.0	-0.08	0.0	0.0	0.0	0.0	0.0
14.29	77.71	8.42	4.56	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.29	105.87	21.89	6.45	0.0	-0.47	0.0	0.0	0.0	0.0	0.0
14.29	26.60	11.25	4.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	37.13	11.64	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	72.22	15.32	3.40	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.29	42.66	15.49	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	36.83	23.84	1.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	30.41	5.85	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	46.56	23.38	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	29.09	19.23	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	89.42	16.63	3.10	0.0	-0.14	0.0	0.0	0.0	0.0	0.0
14.28	51.37	14.87	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	45.24	22.33	2.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	20.85	17.77	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	38.59	14.39	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	30.16	21.61	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	31.55	21.28	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	26.82	20.77	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	45.63	13.76	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	30.45	20.25	2.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	23.48	19.85	2.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	35.33	13.35	3.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	24.54	19.23	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	24.86	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	55.34	17.11	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	41.03	12.68	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	33.10	12.31	3.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	38.33	11.64	3.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	27.97	11.27	3.66	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
14.23	38.74	10.65	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.36	10.21	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	43.18	9.63	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.74	8.97	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	54.37	12.11	3.48	0.0	-0.08	0.0	0.0	0.0	0.0	0.0
14.23	28.38	8.06	4.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	32.51	7.53	4.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	27.71	7.16	4.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.06	28.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	162.77	25.36	6.41	0.0	-0.25	0.0	0.0	0.0	0.0	0.0
14.22	170.46	25.96	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	164.11	24.42	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	163.47	18.53	6.71	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
14.22	133.86	21.17	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	138.19	19.49	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	35.63	18.06	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	102.49	16.77	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	104.53	15.42	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	145.03	13.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	94.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.48	9.91	6.74	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
14.22	223.18	15.22	7.75	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.21	90.04	7.57	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	251.85	9.63	7.66	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.21	115.17	3.67	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	155.00	2.18	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	59.04	24.01	7.05	0.0	-0.01	0.0	0.0	0.0	0.0	0.0
14.21	26.17	5.18	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	13.29	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	17.99	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	53.99	29.13	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	123.00	12.88	8.51	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.20	65.43	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	53.99	1.65	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	47.23	29.13	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	46.44	10.16	6.90	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.20	28.85	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	35.15	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	101.85	14.54	9.71	0.0	-2.55e-03	0.0	0.0	0.0	0.0	0.0
14.19	29.23	19.09	11.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	40.48	29.13	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	75.62	25.69	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	18.39	19.23	11.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	135.87	16.04	5.57	0.0	-0.47	0.0	0.0	0.0	0.0	0.0
14.18	59.00	24.43	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	41.64	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	76.49	15.66	8.62	0.0	-0.23	0.0	0.0	0.0	0.0	0.0
14.18	39.39	23.83	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	33.45	1.65	11.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	52.17	23.38	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	58.75	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	21.11	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	37.60	22.73	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	51.14	22.33	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	2207.36	15.62	11.93	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.17	35.78	21.59	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	37.83	21.28	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	66.47	23.20	3.19	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
14.17	35.95	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	39.24	20.25	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.03	13.34	6.41	0.0	-0.51	0.0	0.0	0.0	0.0	0.0
14.16	69.91	25.69	11.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	60.93	19.15	3.17	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
14.16	56.55	19.04	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.40	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	127.96	18.85	3.85	0.0	-0.17	0.0	0.0	0.0	0.0	0.0
14.16	29.64	17.77	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	43.35	24.30	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	132.48	14.85	6.40	0.0	-0.50	0.0	0.0	0.0	0.0	0.0
14.15	39.86	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.85	16.50	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.75	16.42	4.05	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.15	84.66	16.65	4.11	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.15	81.23	13.22	2.71	0.0	-0.06	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
14.15	82.73	13.18	4.05	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.15	21.86	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	56.48	13.05	3.81	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.15	69.24	12.88	4.12	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.15	42.16	15.46	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	28.78	8.96	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	74.54	5.18	4.59	0.0	-0.07	0.0	0.0	0.0	0.0	0.0
14.14	46.75	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	92.74	12.43	2.79	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.14	39.37	8.80	3.74	0.0	-0.11	0.0	0.0	0.0	0.0	0.0
14.14	104.63	13.23	6.11	0.0	-0.48	0.0	0.0	0.0	0.0	0.0
14.14	60.49	13.50	3.33	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.13	44.10	13.76	2.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	27.93	11.31	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	70.71	12.45	2.71	0.0	-0.01	0.0	0.0	0.0	0.0	0.0
14.13	81.41	14.62	2.98	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.13	57.65	10.32	3.37	0.0	-0.12	0.0	0.0	0.0	0.0	0.0
14.13	41.59	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.12	224.50	14.31	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	41.57	12.74	3.51	0.0	-0.09	0.0	0.0	0.0	0.0	0.0
14.11	36.06	25.69	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	61.60	14.94	3.39	0.0	-9.09e-03	0.0	0.0	0.0	0.0	0.0
14.11	16.96	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	47.73	12.31	12.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	1952.37	15.81	1.76	0.0	-0.17	0.0	0.0	0.0	0.0	0.0
14.07	26.42	19.09	12.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.06	12.39	19.23	12.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	17.39	22.33	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	13.16	22.65	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	3209.66	15.39	12.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	25.36	23.51	-0.03	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.01	16.28	25.08	-0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.00	545.87	14.34	1.46	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
13.82	2601.25	15.40	13.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.63	1540.70	15.40	14.34	0.0	0.0	15.43	14.34	0.095	0.025	0.0
13.51	4869.50	16.00	7.39	0.0	-0.63	19.47	9.12	0.603	0.226	0.327
13.41	5.341e+04	15.87	7.62	0.0	-0.63	14.77	7.43	0.737	0.151	0.030
13.31	4324.19	16.20	7.27	0.0	-0.63	14.78	7.34	0.809	0.175	0.011
12.56	9219.00	16.13	7.38	0.0	-0.63	14.66	7.34	0.748	0.183	0.006
11.78	9339.06	16.13	7.36	0.0	-0.63	14.78	7.34	0.754	0.168	0.004
11.20	283.34	14.71	9.83	0.0	-0.10	14.72	9.09	1.170	0.012	0.520
11.00	9007.32	16.19	7.27	0.0	-0.63	14.66	7.38	0.768	0.190	0.015
10.62	262.88	14.71	9.83	0.0	-0.10	14.72	9.09	1.170	0.012	0.520
10.23	4497.59	16.20	7.27	0.0	-0.63	14.78	7.33	0.756	0.174	0.010
10.13	1.461e+05	15.79	8.49	0.0	-0.63	14.77	7.43	0.737	0.140	0.165
10.03	4324.19	16.20	7.27	0.0	-0.63	14.78	7.34	0.809	0.175	0.011
9.28	9219.00	16.13	7.38	0.0	-0.63	14.66	7.34	0.748	0.183	0.006
8.50	9326.91	16.14	7.36	0.0	-0.63	14.78	7.34	0.754	0.169	0.003
7.92	283.34	14.71	9.83	0.0	-0.10	14.72	9.09	1.170	0.012	0.520
7.72	8995.18	16.19	7.27	0.0	-0.63	14.66	7.38	0.768	0.191	0.016
7.34	262.88	14.71	9.83	0.0	-0.10	14.72	9.09	1.170	0.012	0.520
6.94	4497.59	16.20	7.27	0.0	-0.63	14.78	7.33	0.756	0.174	0.010
6.84	1.451e+05	15.78	8.50	0.0	-0.63	14.77	7.41	0.742	0.134	0.168
6.74	5320.79	16.20	7.26	0.0	-0.63	14.78	7.34	0.809	0.176	0.011
5.96	1.105e+04	16.15	7.36	0.0	-0.63	14.67	7.34	0.748	0.185	0.003
5.19	1.103e+04	16.14	7.35	0.0	-0.63	14.78	7.34	0.755	0.169	0.002
4.41	9316.78	16.13	7.37	0.0	-0.63	14.66	7.38	0.768	0.184	9.4582e-04
3.88	8210.44	16.20	7.27	0.0	-0.63	14.78	7.33	0.756	0.174	0.010
3.63	4050.96	19.09	10.18	0.0	-0.22	18.33	9.64	4.491	0.044	0.092
Risulta	5.179e+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	kg		kg		kg			
1	2.577	0.388	0.312	3943.97	0.8	4.358e+05	84.1	0.0	0.0	0.0	0.0
2	2.964	0.337	0.359	3.963e+05	76.5	4436.96	0.9	0.0	0.0	0.0	0.0
3	3.474	0.288	0.404	2.597e+04	5.0	15.54	3.00e-03	0.0	0.0	0.0	0.0
4	7.888	0.127	0.404	3953.59	0.8	4.424e+04	8.5	0.0	0.0	0.0	0.0
5	8.193	0.122	0.404	5834.50	1.1	444.89	8.59e-02	0.0	0.0	0.0	0.0
6	8.305	0.120	0.404	2.680e+04	5.2	890.56	0.2	0.0	0.0	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
7	8.434	0.119	0.404	1.589e+04	3.1	6540.15	1.3	0.0	0.0	0.0	0.0
8	8.665	0.115	0.404	1350.61	0.3	1030.44	0.2	0.0	0.0	0.0	0.0
9	9.056	0.110	0.404	4743.37	0.9	445.61	8.60e-02	0.0	0.0	0.0	0.0
10	9.281	0.108	0.404	1618.44	0.3	99.50	1.92e-02	0.0	0.0	0.0	0.0
11	9.446	0.106	0.404	574.31	0.1	441.13	8.52e-02	0.0	0.0	0.0	0.0
12	9.560	0.105	0.404	319.81	6.17e-02	130.59	2.52e-02	0.0	0.0	0.0	0.0
13	10.054	0.099	0.403	97.93	1.89e-02	26.93	5.20e-03	0.0	0.0	0.0	0.0
14	10.084	0.099	0.402	8.07	1.56e-03	0.04	7.90e-06	0.0	0.0	0.0	0.0
15	10.089	0.099	0.402	58.46	1.13e-02	37.40	7.22e-03	0.0	0.0	0.0	0.0
16	10.125	0.099	0.401	562.08	0.1	4.79	9.25e-04	0.0	0.0	0.0	0.0
17	10.339	0.097	0.396	106.83	2.06e-02	216.62	4.18e-02	0.0	0.0	0.0	0.0
18	10.382	0.096	0.395	35.29	6.81e-03	1738.11	0.3	0.0	0.0	0.0	0.0
19	10.574	0.095	0.391	140.72	2.72e-02	0.37	7.14e-05	0.0	0.0	0.0	0.0
20	10.620	0.094	0.390	77.21	1.49e-02	0.15	2.83e-05	0.0	0.0	0.0	0.0
21	10.648	0.094	0.390	17.24	3.33e-03	379.35	7.32e-02	0.0	0.0	0.0	0.0
22	10.825	0.092	0.386	1.39	2.69e-04	0.88	1.70e-04	0.0	0.0	0.0	0.0
23	11.107	0.090	0.381	170.38	3.29e-02	609.01	0.1	0.0	0.0	0.0	0.0
24	11.141	0.090	0.380	318.14	6.14e-02	1839.55	0.4	0.0	0.0	0.0	0.0
25	11.196	0.089	0.379	134.30	2.59e-02	841.11	0.2	0.0	0.0	0.0	0.0
26	11.241	0.089	0.378	1.51	2.92e-04	998.16	0.2	0.0	0.0	0.0	0.0
27	11.311	0.088	0.377	53.46	1.03e-02	550.73	0.1	0.0	0.0	0.0	0.0
28	11.357	0.088	0.376	141.12	2.72e-02	848.51	0.2	0.0	0.0	0.0	0.0
29	11.475	0.087	0.374	51.91	1.00e-02	116.49	2.25e-02	0.0	0.0	0.0	0.0
30	11.528	0.087	0.373	60.33	1.16e-02	169.79	3.28e-02	0.0	0.0	0.0	0.0
Risulta				4.893e+05		5.029e+05		0.0			
In percentuale				94.48		97.10		0.0			

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: A
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.404 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.351 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 30
			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
m	kg	m	m	m	m	m	m			
15.18	1902.25	14.84	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.10	29.36	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.09	26.62	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	72.66	25.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	13.13	19.23	7.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	46.36	24.94	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	25.89	5.55	8.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.05	44.33	24.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.04	40.78	23.91	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	62.85	25.69	8.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	45.20	23.38	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.02	46.02	22.88	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	2183.18	15.45	8.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	33.78	12.71	8.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	50.89	25.69	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	47.76	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	53.74	22.33	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	41.85	21.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	33.71	24.95	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.98	60.13	20.77	7.75	0.0	0.04	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
14.97	37.74	24.43	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	19.36	19.09	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	47.04	20.75	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	29.68	23.90	6.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	45.25	20.25	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	42.10	19.78	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	38.63	23.38	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	35.81	19.23	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	31.07	22.89	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	76.02	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.41	19.09	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.61	19.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	11.00	18.80	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	13.66	18.72	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	44.88	22.33	6.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	25.25	18.19	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	51.34	24.96	6.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.90	73.95	19.53	7.25	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.90	56.48	24.43	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	55.40	5.18	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	108.22	24.02	8.07	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.89	68.16	17.11	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	24.23	19.04	7.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	42.57	23.90	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	33.36	20.75	6.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	50.98	16.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	28.88	5.55	8.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	95.69	21.99	6.57	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.86	43.81	15.99	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	81.15	17.32	7.24	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.85	42.26	22.90	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	45.72	19.09	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	21.49	19.23	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	14.33	19.04	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	2166.91	15.46	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	37.62	19.23	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	57.98	14.87	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	33.82	12.74	9.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	60.43	22.33	6.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	54.76	12.31	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	49.95	14.37	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	41.88	21.71	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	57.61	18.19	6.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.81	60.47	13.76	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	50.50	21.28	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	66.21	18.32	6.70	0.0	0.01	0.0	0.0	0.0	0.0	0.0
14.80	49.12	13.13	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	41.49	12.68	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	40.91	20.76	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	74.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	64.44	17.11	6.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	69.15	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	50.65	20.25	6.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	41.97	16.44	6.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	59.20	11.64	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	45.20	15.99	6.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	39.94	19.79	6.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	48.86	24.98	5.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	82.06	13.30	7.17	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.75	65.62	5.18	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	91.84	18.66	6.23	0.0	0.11	0.0	0.0	0.0	0.0	0.0
14.74	41.81	19.23	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	53.77	14.87	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	54.75	19.04	6.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	44.28	10.28	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	38.73	23.88	5.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	47.90	18.19	6.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	40.12	14.37	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	56.20	9.63	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	46.80	23.38	5.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	55.95	13.76	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	19.29	5.55	9.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	43.28	9.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	36.79	22.91	5.26	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
14.71	66.54	22.45	5.33	0.0	0.06	0.0	0.0	0.0	0.0	0.0
14.70	39.15	13.15	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	47.76	8.58	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	8.57	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	82.15	23.30	5.10	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.69	41.66	12.68	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	64.98	25.69	9.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	40.65	7.98	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	98.72	20.91	8.04	0.0	0.24	0.0	0.0	0.0	0.0	0.0
14.68	51.42	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	23.38	19.23	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	34.63	21.68	5.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	38.48	7.53	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	2155.67	15.46	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	24.65	23.88	4.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	52.29	11.64	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	108.05	18.65	5.67	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.67	42.90	7.12	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	33.74	12.78	9.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	30.01	23.38	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	42.90	16.46	5.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.96	11.10	6.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	47.78	15.99	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.21	20.76	5.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	161.15	14.45	7.70	0.0	0.25	0.0	0.0	0.0	0.0	0.0
14.65	53.25	6.48	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	74.78	13.26	6.39	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.65	85.63	19.12	5.41	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.64	35.70	22.33	4.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	58.99	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	48.70	5.86	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	47.83	9.63	6.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	12.67	5.55	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	54.81	14.87	6.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	29.85	19.80	5.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	23.90	21.68	4.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	31.06	9.03	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	57.39	24.99	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	124.35	11.81	6.45	0.0	0.13	0.0	0.0	0.0	0.0	0.0
14.62	30.81	19.23	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	37.30	8.58	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	44.60	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	23.17	20.76	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	59.43	24.43	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	56.36	13.76	6.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	29.12	8.06	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	28.47	20.25	4.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	33.29	7.53	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	48.91	23.87	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	101.08	8.29	8.50	0.0	0.20	0.0	0.0	0.0	0.0	0.0
14.60	22.45	19.80	4.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	27.69	7.13	6.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	52.84	23.38	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	42.20	12.68	6.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	23.80	19.23	4.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	49.03	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	75.55	12.25	6.06	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.58	48.36	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	51.04	11.64	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	31.38	5.86	7.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	32.99	11.14	6.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	64.86	22.33	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	38.89	10.65	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	31.88	5.18	7.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	146.37	17.62	5.03	0.0	8.90e-03	0.0	0.0	0.0	0.0	0.0
14.56	32.25	10.26	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	55.89	13.99	6.34	0.0	0.25	0.0	0.0	0.0	0.0	0.0
14.55	147.60	15.87	5.26	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.54	31.04	9.02	6.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.54	90.90	18.55	4.75	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.54	36.68	8.58	6.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	29.16	8.06	6.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	50.15	20.76	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	54.89	14.87	5.26	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
14.53	57.90	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	33.37	7.53	6.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	93.14	17.65	4.74	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.52	27.70	7.14	6.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	68.17	19.09	10.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	26.22	19.23	10.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	50.49	25.01	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	52.36	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	44.85	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	98.59	10.64	5.79	0.0	0.06	0.0	0.0	0.0	0.0	0.0
14.51	2143.44	15.45	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	42.10	5.86	6.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	58.75	24.43	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	51.17	5.18	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	85.24	16.43	4.77	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.50	33.71	12.81	10.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	38.93	19.04	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	41.96	23.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	42.73	12.68	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	49.70	12.31	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	115.87	12.02	8.37	0.0	0.26	0.0	0.0	0.0	0.0	0.0
14.48	71.77	18.59	5.40	0.0	0.36	0.0	0.0	0.0	0.0	0.0
14.48	33.03	11.18	5.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	40.40	18.19	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	40.51	10.65	5.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	32.24	10.25	5.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	41.71	22.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	77.47	12.75	5.13	0.0	0.07	0.0	0.0	0.0	0.0	0.0
14.46	31.03	9.00	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	36.32	8.58	5.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	61.15	22.33	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	29.16	8.06	5.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	81.17	13.19	4.95	0.0	0.08	0.0	0.0	0.0	0.0	0.0
14.45	53.19	5.18	10.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	62.57	12.35	5.05	0.0	0.08	0.0	0.0	0.0	0.0	0.0
14.44	42.30	15.99	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	41.44	21.64	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	70.62	11.58	5.11	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.44	37.13	15.51	4.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.43	46.91	21.28	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	47.98	14.87	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	40.54	20.77	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	34.09	18.19	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	37.05	14.39	4.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	52.68	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	49.41	20.25	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	24.33	17.78	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	50.73	13.76	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	39.65	19.82	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	48.87	25.02	2.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	37.87	13.19	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	37.36	17.11	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	36.83	5.85	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	98.90	22.17	3.03	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.39	41.32	12.68	4.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	46.37	12.31	4.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	84.53	14.79	4.20	0.0	0.06	0.0	0.0	0.0	0.0	0.0
14.38	33.06	11.21	4.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	42.13	10.65	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	32.23	10.23	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	47.80	9.63	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.42	16.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	31.02	8.99	5.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.96	8.58	5.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	29.16	8.06	5.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	71.09	16.28	3.90	0.0	0.13	0.0	0.0	0.0	0.0	0.0
14.37	27.70	7.15	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	41.29	15.99	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	47.61	23.38	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	40.74	6.48	5.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	36.90	15.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	35.60	22.81	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	38.11	18.19	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	24.69	5.85	5.37	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
14.35	95.54	23.95	6.77	0.0	0.43	0.0	0.0	0.0	0.0	0.0
14.35	43.75	14.87	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	38.27	5.18	5.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	2152.58	15.49	11.11	0.0	0.39	0.0	0.0	0.0	0.0	0.0
14.33	38.23	14.39	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	32.96	21.62	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	51.49	10.54	9.49	0.0	0.30	0.0	0.0	0.0	0.0	0.0
14.32	35.54	21.28	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.20	17.11	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	26.45	5.55	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.78	13.76	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	30.24	20.77	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	17.50	13.35	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	20.21	13.20	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	67.82	12.31	11.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	52.95	16.50	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	120.45	15.85	7.67	0.0	0.48	0.0	0.0	0.0	0.0	0.0
14.30	67.88	14.13	3.69	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.30	28.18	8.06	4.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	61.06	7.93	4.68	0.0	0.01	0.0	0.0	0.0	0.0	0.0
14.30	28.20	8.98	4.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	48.32	25.04	1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	131.70	13.03	3.83	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.29	54.92	15.04	3.48	0.0	0.08	0.0	0.0	0.0	0.0	0.0
14.29	77.71	8.42	4.56	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.29	105.87	21.89	6.45	0.0	0.47	0.0	0.0	0.0	0.0	0.0
14.29	26.60	11.25	4.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	37.13	11.64	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	72.22	15.32	3.40	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.29	42.66	15.49	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	36.83	23.84	1.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	30.41	5.85	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	46.56	23.38	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	29.09	19.23	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	89.42	16.63	3.10	0.0	0.14	0.0	0.0	0.0	0.0	0.0
14.28	51.37	14.87	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	45.24	22.33	2.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	20.85	17.77	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	38.59	14.39	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	30.16	21.61	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	31.55	21.28	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	26.82	20.77	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	45.63	13.76	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	30.45	20.25	2.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	23.48	19.85	2.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	35.33	13.35	3.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	24.54	19.23	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	24.86	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	55.34	17.11	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	41.03	12.68	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	33.10	12.31	3.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	38.33	11.64	3.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	27.97	11.27	3.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	38.74	10.65	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.36	10.21	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	43.18	9.63	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.74	8.97	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	54.37	12.11	3.48	0.0	0.08	0.0	0.0	0.0	0.0	0.0
14.23	28.38	8.06	4.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	32.51	7.53	4.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	27.71	7.16	4.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.06	28.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	162.77	25.36	6.41	0.0	0.25	0.0	0.0	0.0	0.0	0.0
14.22	170.46	25.96	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	164.11	24.42	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	163.47	18.53	6.71	0.0	0.16	0.0	0.0	0.0	0.0	0.0
14.22	133.86	21.17	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	138.19	19.49	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	35.63	18.06	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	102.49	16.77	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	104.53	15.42	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	145.03	13.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	94.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.48	9.91	6.74	0.0	0.16	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
14.22	223.18	15.22	7.75	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.21	90.04	7.57	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	251.85	9.63	7.66	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.21	115.17	3.67	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	155.00	2.18	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	59.04	24.01	7.05	0.0	0.01	0.0	0.0	0.0	0.0	0.0
14.21	26.17	5.18	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	13.29	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	17.99	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	53.99	29.13	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	123.00	12.88	8.51	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.20	65.43	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	53.99	1.65	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	47.23	29.13	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	46.44	10.16	6.90	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.20	28.85	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	35.15	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	101.85	14.54	9.71	0.0	2.55e-03	0.0	0.0	0.0	0.0	0.0
14.19	29.23	19.09	11.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	40.48	29.13	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	75.62	25.69	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	18.39	19.23	11.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	135.87	16.04	5.57	0.0	0.47	0.0	0.0	0.0	0.0	0.0
14.18	59.00	24.43	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	41.64	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	76.49	15.66	8.62	0.0	0.23	0.0	0.0	0.0	0.0	0.0
14.18	39.39	23.83	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	33.45	1.65	11.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	52.17	23.38	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	58.75	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	21.11	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	37.60	22.73	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	51.14	22.33	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	2207.36	15.62	11.93	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.17	35.78	21.59	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	37.83	21.28	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	66.47	23.20	3.19	0.0	0.16	0.0	0.0	0.0	0.0	0.0
14.17	35.95	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	39.24	20.25	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.03	13.34	6.41	0.0	0.51	0.0	0.0	0.0	0.0	0.0
14.16	69.91	25.69	11.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	60.93	19.15	3.17	0.0	0.16	0.0	0.0	0.0	0.0	0.0
14.16	56.55	19.04	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.40	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	127.96	18.85	3.85	0.0	0.17	0.0	0.0	0.0	0.0	0.0
14.16	29.64	17.77	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	43.35	24.30	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	132.48	14.85	6.40	0.0	0.50	0.0	0.0	0.0	0.0	0.0
14.15	39.86	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.85	16.50	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.75	16.42	4.05	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.15	84.66	16.65	4.11	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.15	81.23	13.22	2.71	0.0	0.06	0.0	0.0	0.0	0.0	0.0
14.15	82.73	13.18	4.05	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.15	21.86	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	56.48	13.05	3.81	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.15	69.24	12.88	4.12	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.15	42.16	15.46	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	28.78	8.96	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	74.54	5.18	4.59	0.0	0.07	0.0	0.0	0.0	0.0	0.0
14.14	46.75	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	92.74	12.43	2.79	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.14	39.37	8.80	3.74	0.0	0.11	0.0	0.0	0.0	0.0	0.0
14.14	104.63	13.23	6.11	0.0	0.48	0.0	0.0	0.0	0.0	0.0
14.14	60.49	13.50	3.33	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.13	44.10	13.76	2.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	27.93	11.31	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	70.71	12.45	2.71	0.0	0.01	0.0	0.0	0.0	0.0	0.0
14.13	81.41	14.62	2.98	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.13	57.65	10.32	3.37	0.0	0.12	0.0	0.0	0.0	0.0	0.0
14.13	41.59	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.12	224.50	14.31	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	41.57	12.74	3.51	0.0	0.09	0.0	0.0	0.0	0.0	0.0
14.11	36.06	25.69	1.81	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
14.11	61.60	14.94	3.39	0.0	9.09e-03	0.0	0.0	0.0	0.0	0.0
14.11	16.96	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	47.73	12.31	12.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	1952.37	15.81	1.76	0.0	0.17	0.0	0.0	0.0	0.0	0.0
14.07	26.42	19.09	12.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.06	12.39	19.23	12.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	17.39	22.33	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	13.16	22.65	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	3209.66	15.39	12.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	25.36	23.51	-0.03	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.01	16.28	25.08	-0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.00	545.87	14.34	1.46	0.0	0.16	0.0	0.0	0.0	0.0	0.0
13.82	2601.25	15.40	13.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.63	1540.70	15.40	14.34	0.0	0.0	15.43	14.34	0.095	0.025	0.0
13.51	4869.50	16.00	7.39	0.0	0.63	19.47	9.12	0.603	0.226	0.327
13.41	5.341e+04	15.87	7.62	0.0	0.63	14.77	7.43	0.737	0.151	0.030
13.31	4324.19	16.20	7.27	0.0	0.63	14.78	7.34	0.809	0.175	0.011
12.56	9219.00	16.13	7.38	0.0	0.63	14.66	7.34	0.748	0.183	0.006
11.78	9339.06	16.13	7.36	0.0	0.63	14.78	7.34	0.754	0.168	0.004
11.20	283.34	14.71	9.83	0.0	0.10	14.72	9.09	1.170	0.012	0.520
11.00	9007.32	16.19	7.27	0.0	0.63	14.66	7.38	0.768	0.190	0.015
10.62	262.88	14.71	9.83	0.0	0.10	14.72	9.09	1.170	0.012	0.520
10.23	4497.59	16.20	7.27	0.0	0.63	14.78	7.33	0.756	0.174	0.010
10.13	1.461e+05	15.79	8.49	0.0	0.63	14.77	7.43	0.737	0.140	0.165
10.03	4324.19	16.20	7.27	0.0	0.63	14.78	7.34	0.809	0.175	0.011
9.28	9219.00	16.13	7.38	0.0	0.63	14.66	7.34	0.748	0.183	0.006
8.50	9326.91	16.14	7.36	0.0	0.63	14.78	7.34	0.754	0.169	0.003
7.92	283.34	14.71	9.83	0.0	0.10	14.72	9.09	1.170	0.012	0.520
7.72	8995.18	16.19	7.27	0.0	0.63	14.66	7.38	0.768	0.191	0.016
7.34	262.88	14.71	9.83	0.0	0.10	14.72	9.09	1.170	0.012	0.520
6.94	4497.59	16.20	7.27	0.0	0.63	14.78	7.33	0.756	0.174	0.010
6.84	1.451e+05	15.78	8.50	0.0	0.63	14.77	7.41	0.742	0.134	0.168
6.74	5320.79	16.20	7.26	0.0	0.63	14.78	7.34	0.809	0.176	0.011
5.96	1.105e+04	16.15	7.36	0.0	0.63	14.67	7.34	0.748	0.185	0.003
5.19	1.103e+04	16.14	7.35	0.0	0.63	14.78	7.34	0.755	0.169	0.002
4.41	9316.78	16.13	7.37	0.0	0.63	14.66	7.38	0.768	0.184	9.4582e-04
3.88	8210.44	16.20	7.27	0.0	0.63	14.78	7.33	0.756	0.174	0.010
3.63	4050.96	19.09	10.18	0.0	0.22	18.33	9.64	4.491	0.044	0.092
Risulta	5.179e+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	kg		kg		kg			
1	2.575	0.388	0.312	7146.93	1.4	4.317e+05	83.4	0.0	0.0	0.0	0.0
2	2.847	0.351	0.345	3.511e+05	67.8	8543.21	1.6	0.0	0.0	0.0	0.0
3	3.635	0.275	0.404	6.805e+04	13.1	6.27	1.21e-03	0.0	0.0	0.0	0.0
4	7.714	0.130	0.404	3.957e+04	7.6	8351.43	1.6	0.0	0.0	0.0	0.0
5	7.949	0.126	0.404	5787.69	1.1	3.674e+04	7.1	0.0	0.0	0.0	0.0
6	8.220	0.122	0.404	735.54	0.1	2593.33	0.5	0.0	0.0	0.0	0.0
7	8.402	0.119	0.404	683.17	0.1	4370.57	0.8	0.0	0.0	0.0	0.0
8	8.714	0.115	0.404	299.70	5.78e-02	1073.91	0.2	0.0	0.0	0.0	0.0
9	8.814	0.113	0.404	0.50	9.67e-05	3.17	6.11e-04	0.0	0.0	0.0	0.0
10	8.858	0.113	0.404	434.08	8.38e-02	1.50	2.89e-04	0.0	0.0	0.0	0.0
11	9.108	0.110	0.404	14.49	2.80e-03	0.09	1.67e-05	0.0	0.0	0.0	0.0
12	9.227	0.108	0.404	350.79	6.77e-02	117.25	2.26e-02	0.0	0.0	0.0	0.0
13	9.260	0.108	0.404	1308.11	0.3	256.64	4.96e-02	0.0	0.0	0.0	0.0
14	9.388	0.107	0.404	1074.35	0.2	122.32	2.36e-02	0.0	0.0	0.0	0.0
15	9.503	0.105	0.404	1184.83	0.2	557.04	0.1	0.0	0.0	0.0	0.0
16	9.749	0.103	0.404	7419.93	1.4	125.38	2.42e-02	0.0	0.0	0.0	0.0
17	10.087	0.099	0.402	85.74	1.66e-02	0.05	9.95e-06	0.0	0.0	0.0	0.0
18	10.203	0.098	0.399	1451.96	0.3	1498.65	0.3	0.0	0.0	0.0	0.0
19	10.337	0.097	0.396	60.41	1.17e-02	23.60	4.56e-03	0.0	0.0	0.0	0.0
20	10.634	0.094	0.390	2682.48	0.5	156.37	3.02e-02	0.0	0.0	0.0	0.0
21	10.644	0.094	0.390	895.74	0.2	125.33	2.42e-02	0.0	0.0	0.0	0.0
22	10.666	0.094	0.389	524.53	0.1	477.68	9.22e-02	0.0	0.0	0.0	0.0
23	10.680	0.094	0.389	2531.96	0.5	202.25	3.91e-02	0.0	0.0	0.0	0.0
24	10.711	0.093	0.389	167.41	3.23e-02	4.30	8.31e-04	0.0	0.0	0.0	0.0
25	10.715	0.093	0.388	26.93	5.20e-03	0.33	6.43e-05	0.0	0.0	0.0	0.0
26	10.842	0.092	0.386	1011.10	0.2	222.15	4.29e-02	0.0	0.0	0.0	0.0
27	10.959	0.091	0.384	1775.76	0.3	81.43	1.57e-02	0.0	0.0	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
28	11.106	0.090	0.381	5.39	1.04e-03	69.29	1.34e-02	0.0	0.0	0.0	0.0
29	11.127	0.090	0.380	44.49	8.59e-03	17.91	3.46e-03	0.0	0.0	0.0	0.0
30	11.227	0.089	0.378	223.42	4.31e-02	1352.51	0.3	0.0	0.0	0.0	0.0
Risulta				4.967e+05		4.988e+05		0.0			
In percentuale				95.87		96.31		0.0			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: A
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.404 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.392 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 30
			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
m	kg	m	m	m	m	m	m			
15.18	1902.25	14.84	7.53	1.37	0.0	0.0	0.0	0.0	0.0	0.0
15.10	29.36	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.09	26.62	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	72.66	25.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	13.13	19.23	7.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	46.36	24.94	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	25.89	5.55	8.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.05	44.33	24.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.04	40.78	23.91	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	62.85	25.69	8.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	45.20	23.38	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.02	46.02	22.88	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	2183.18	15.45	8.27	1.37	0.0	0.0	0.0	0.0	0.0	0.0
15.01	33.78	12.71	8.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	50.89	25.69	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	47.76	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	53.74	22.33	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	41.85	21.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	33.71	24.95	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.98	60.13	20.77	7.75	0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.97	37.74	24.43	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	19.36	19.09	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	47.04	20.75	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	29.68	23.90	6.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	45.25	20.25	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	42.10	19.78	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	38.63	23.38	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	35.81	19.23	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	31.07	22.89	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	76.02	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.41	19.09	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.61	19.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	11.00	18.80	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	13.66	18.72	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	44.88	22.33	6.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	25.25	18.19	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	51.34	24.96	6.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.90	73.95	19.53	7.25	0.20	0.0	0.0	0.0	0.0	0.0	0.0
14.90	56.48	24.43	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	55.40	5.18	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	108.22	24.02	8.07	0.22	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
14.89	68.16	17.11	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	24.23	19.04	7.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	42.57	23.90	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	33.36	20.75	6.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	50.98	16.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	28.88	5.55	8.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	95.69	21.99	6.57	0.16	0.0	0.0	0.0	0.0	0.0	0.0
14.86	43.81	15.99	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	81.15	17.32	7.24	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.85	42.26	22.90	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	45.72	19.09	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	21.49	19.23	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	14.33	19.04	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	2166.91	15.46	9.00	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.84	37.62	19.23	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	57.98	14.87	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	33.82	12.74	9.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	60.43	22.33	6.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	54.76	12.31	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	49.95	14.37	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	41.88	21.71	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	57.61	18.19	6.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.81	60.47	13.76	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	50.50	21.28	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	66.21	18.32	6.70	0.06	0.0	0.0	0.0	0.0	0.0	0.0
14.80	49.12	13.13	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	41.49	12.68	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	40.91	20.76	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	74.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	64.44	17.11	6.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	69.15	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	50.65	20.25	6.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	41.97	16.44	6.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	59.20	11.64	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	45.20	15.99	6.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	39.94	19.79	6.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	48.86	24.98	5.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	82.06	13.30	7.17	0.22	0.0	0.0	0.0	0.0	0.0	0.0
14.75	65.62	5.18	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	91.84	18.66	6.23	0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.74	41.81	19.23	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	53.77	14.87	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	54.75	19.04	6.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	44.28	10.28	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	38.73	23.88	5.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	47.90	18.19	6.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	40.12	14.37	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	56.20	9.63	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	46.80	23.38	5.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	55.95	13.76	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	19.29	5.55	9.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	43.28	9.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	36.79	22.91	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	66.54	22.45	5.33	0.39	0.0	0.0	0.0	0.0	0.0	0.0
14.70	39.15	13.15	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	47.76	8.58	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	8.57	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	82.15	23.30	5.10	0.13	0.0	0.0	0.0	0.0	0.0	0.0
14.69	41.66	12.68	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	64.98	25.69	9.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	40.65	7.98	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	98.72	20.91	8.04	0.27	0.0	0.0	0.0	0.0	0.0	0.0
14.68	51.42	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	23.38	19.23	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	34.63	21.68	5.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	38.48	7.53	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	2155.67	15.46	9.74	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.67	24.65	23.88	4.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	52.29	11.64	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	108.05	18.65	5.67	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.67	42.90	7.12	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	33.74	12.78	9.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	30.01	23.38	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	42.90	16.46	5.98	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
14.66	32.96	11.10	6.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	47.78	15.99	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.21	20.76	5.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	161.15	14.45	7.70	0.61	0.0	0.0	0.0	0.0	0.0	0.0
14.65	53.25	6.48	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	74.78	13.26	6.39	0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.65	85.63	19.12	5.41	0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.64	35.70	22.33	4.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	58.99	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	48.70	5.86	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	47.83	9.63	6.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	12.67	5.55	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	54.81	14.87	6.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	29.85	19.80	5.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	23.90	21.68	4.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	31.06	9.03	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	57.39	24.99	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	124.35	11.81	6.45	0.81	0.0	0.0	0.0	0.0	0.0	0.0
14.62	30.81	19.23	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	37.30	8.58	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	44.60	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	23.17	20.76	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	59.43	24.43	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	56.36	13.76	6.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	29.12	8.06	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	28.47	20.25	4.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	33.29	7.53	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	48.91	23.87	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	101.08	8.29	8.50	0.40	0.0	0.0	0.0	0.0	0.0	0.0
14.60	22.45	19.80	4.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	27.69	7.13	6.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	52.84	23.38	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	42.20	12.68	6.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	23.80	19.23	4.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	49.03	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	75.55	12.25	6.06	0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.58	48.36	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	51.04	11.64	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	31.38	5.86	7.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	32.99	11.14	6.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	64.86	22.33	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	38.89	10.65	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	31.88	5.18	7.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	146.37	17.62	5.03	0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.56	32.25	10.26	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	55.89	13.99	6.34	0.55	0.0	0.0	0.0	0.0	0.0	0.0
14.55	147.60	15.87	5.26	0.60	0.0	0.0	0.0	0.0	0.0	0.0
14.54	31.04	9.02	6.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.54	90.90	18.55	4.75	0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.54	36.68	8.58	6.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	29.16	8.06	6.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	50.15	20.76	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	54.89	14.87	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	57.90	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	33.37	7.53	6.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	93.14	17.65	4.74	0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.52	27.70	7.14	6.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	68.17	19.09	10.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	26.22	19.23	10.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	50.49	25.01	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	52.36	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	44.85	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	98.59	10.64	5.79	0.36	0.0	0.0	0.0	0.0	0.0	0.0
14.51	2143.44	15.45	10.47	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.50	42.10	5.86	6.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	58.75	24.43	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	51.17	5.18	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	85.24	16.43	4.77	0.30	0.0	0.0	0.0	0.0	0.0	0.0
14.50	33.71	12.81	10.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	38.93	19.04	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	41.96	23.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	42.73	12.68	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	49.70	12.31	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	115.87	12.02	8.37	0.03	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
14.48	71.77	18.59	5.40	0.89	0.0	0.0	0.0	0.0	0.0	0.0
14.48	33.03	11.18	5.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	40.40	18.19	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	40.51	10.65	5.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	32.24	10.25	5.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	41.71	22.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	77.47	12.75	5.13	0.41	0.0	0.0	0.0	0.0	0.0	0.0
14.46	31.03	9.00	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	36.32	8.58	5.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	61.15	22.33	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	29.16	8.06	5.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	81.17	13.19	4.95	0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.45	53.19	5.18	10.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	62.57	12.35	5.05	0.47	0.0	0.0	0.0	0.0	0.0	0.0
14.44	42.30	15.99	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	41.44	21.64	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	70.62	11.58	5.11	0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.44	37.13	15.51	4.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.43	46.91	21.28	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	47.98	14.87	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	40.54	20.77	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	34.09	18.19	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	37.05	14.39	4.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	52.68	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	49.41	20.25	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	24.33	17.78	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	50.73	13.76	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	39.65	19.82	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	48.87	25.02	2.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	37.87	13.19	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	37.36	17.11	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	36.83	5.85	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	98.90	22.17	3.03	0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.39	41.32	12.68	4.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	46.37	12.31	4.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	84.53	14.79	4.20	0.37	0.0	0.0	0.0	0.0	0.0	0.0
14.38	33.06	11.21	4.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	42.13	10.65	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	32.23	10.23	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	47.80	9.63	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.42	16.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	31.02	8.99	5.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.96	8.58	5.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	29.16	8.06	5.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	71.09	16.28	3.90	0.82	0.0	0.0	0.0	0.0	0.0	0.0
14.37	27.70	7.15	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	41.29	15.99	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	47.61	23.38	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	40.74	6.48	5.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	36.90	15.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	35.60	22.81	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	38.11	18.19	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	24.69	5.85	5.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	95.54	23.95	6.77	0.17	0.0	0.0	0.0	0.0	0.0	0.0
14.35	43.75	14.87	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	38.27	5.18	5.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	2152.58	15.49	11.11	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.33	38.23	14.39	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	32.96	21.62	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	51.49	10.54	9.49	0.38	0.0	0.0	0.0	0.0	0.0	0.0
14.32	35.54	21.28	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.20	17.11	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	26.45	5.55	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.78	13.76	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	30.24	20.77	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	17.50	13.35	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	20.21	13.20	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	67.82	12.31	11.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	52.95	16.50	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	120.45	15.85	7.67	1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.30	67.88	14.13	3.69	0.64	0.0	0.0	0.0	0.0	0.0	0.0
14.30	28.18	8.06	4.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	61.06	7.93	4.68	0.07	0.0	0.0	0.0	0.0	0.0	0.0
14.30	28.20	8.98	4.50	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
14.30	48.32	25.04	1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	131.70	13.03	3.83	0.32	0.0	0.0	0.0	0.0	0.0	0.0
14.29	54.92	15.04	3.48	0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.29	77.71	8.42	4.56	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.29	105.87	21.89	6.45	0.27	0.0	0.0	0.0	0.0	0.0	0.0
14.29	26.60	11.25	4.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	37.13	11.64	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	72.22	15.32	3.40	0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.29	42.66	15.49	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	36.83	23.84	1.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	30.41	5.85	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	46.56	23.38	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	29.09	19.23	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	89.42	16.63	3.10	0.88	0.0	0.0	0.0	0.0	0.0	0.0
14.28	51.37	14.87	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	45.24	22.33	2.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	20.85	17.77	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	38.59	14.39	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	30.16	21.61	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	31.55	21.28	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	26.82	20.77	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	45.63	13.76	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	30.45	20.25	2.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	23.48	19.85	2.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	35.33	13.35	3.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	24.54	19.23	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	24.86	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	55.34	17.11	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	41.03	12.68	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	33.10	12.31	3.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	38.33	11.64	3.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	27.97	11.27	3.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	38.74	10.65	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.36	10.21	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	43.18	9.63	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.74	8.97	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	54.37	12.11	3.48	0.46	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.38	8.06	4.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	32.51	7.53	4.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	27.71	7.16	4.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.06	28.74	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	162.77	25.36	6.41	0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.22	170.46	25.96	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	164.11	24.42	7.53	0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.22	163.47	18.53	6.71	0.83	0.0	0.0	0.0	0.0	0.0	0.0
14.22	133.86	21.17	7.53	0.04	0.0	0.0	0.0	0.0	0.0	0.0
14.22	138.19	19.49	7.53	0.04	0.0	0.0	0.0	0.0	0.0	0.0
14.22	35.63	18.06	7.53	0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.22	102.49	16.77	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	104.53	15.42	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	145.03	13.69	7.53	0.07	0.0	0.0	0.0	0.0	0.0	0.0
14.22	94.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.48	9.91	6.74	0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.22	223.18	15.22	7.75	1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	90.04	7.57	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	251.85	9.63	7.66	1.06	0.0	0.0	0.0	0.0	0.0	0.0
14.21	115.17	3.67	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	155.00	2.18	7.53	0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.21	59.04	24.01	7.05	0.33	0.0	0.0	0.0	0.0	0.0	0.0
14.21	26.17	5.18	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	13.29	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	17.99	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	53.99	29.13	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	123.00	12.88	8.51	1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.20	65.43	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	53.99	1.65	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	47.23	29.13	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	46.44	10.16	6.90	0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.20	28.85	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	35.15	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	101.85	14.54	9.71	1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.19	29.23	19.09	11.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	40.48	29.13	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	75.62	25.69	0.98	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
14.19	18.39	19.23	11.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	135.87	16.04	5.57	1.17	0.0	0.0	0.0	0.0	0.0	0.0
14.18	59.00	24.43	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	41.64	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	76.49	15.66	8.62	1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.18	39.39	23.83	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	33.45	1.65	11.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	52.17	23.38	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	58.75	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	21.11	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	37.60	22.73	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	51.14	22.33	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	2207.36	15.62	11.93	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.17	35.78	21.59	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	37.83	21.28	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	66.47	23.20	3.19	0.25	0.0	0.0	0.0	0.0	0.0	0.0
14.17	35.95	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	39.24	20.25	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.03	13.34	6.41	0.72	0.0	0.0	0.0	0.0	0.0	0.0
14.16	69.91	25.69	11.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	60.93	19.15	3.17	9.70e-03	0.0	0.0	0.0	0.0	0.0	0.0
14.16	56.55	19.04	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.40	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	127.96	18.85	3.85	0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.16	29.64	17.77	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	43.35	24.30	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	132.48	14.85	6.40	0.92	0.0	0.0	0.0	0.0	0.0	0.0
14.15	39.86	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.85	16.50	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.75	16.42	4.05	0.73	0.0	0.0	0.0	0.0	0.0	0.0
14.15	84.66	16.65	4.11	0.70	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.23	13.22	2.71	0.40	0.0	0.0	0.0	0.0	0.0	0.0
14.15	82.73	13.18	4.05	0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.15	21.86	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	56.48	13.05	3.81	0.54	0.0	0.0	0.0	0.0	0.0	0.0
14.15	69.24	12.88	4.12	0.66	0.0	0.0	0.0	0.0	0.0	0.0
14.15	42.16	15.46	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	28.78	8.96	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	74.54	5.18	4.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	46.75	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	92.74	12.43	2.79	0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.14	39.37	8.80	3.74	0.25	0.0	0.0	0.0	0.0	0.0	0.0
14.14	104.63	13.23	6.11	0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.14	60.49	13.50	3.33	0.42	0.0	0.0	0.0	0.0	0.0	0.0
14.13	44.10	13.76	2.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	27.93	11.31	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	70.71	12.45	2.71	0.09	0.0	0.0	0.0	0.0	0.0	0.0
14.13	81.41	14.62	2.98	0.34	0.0	0.0	0.0	0.0	0.0	0.0
14.13	57.65	10.32	3.37	0.38	0.0	0.0	0.0	0.0	0.0	0.0
14.13	41.59	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.12	224.50	14.31	3.89	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.11	41.57	12.74	3.51	0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.11	36.06	25.69	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	61.60	14.94	3.39	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.11	16.96	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	47.73	12.31	12.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	1952.37	15.81	1.76	1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.07	26.42	19.09	12.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.06	12.39	19.23	12.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	17.39	22.33	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	13.16	22.65	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	3209.66	15.39	12.68	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.01	25.36	23.51	-0.03	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.01	16.28	25.08	-0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.00	545.87	14.34	1.46	0.96	0.0	0.0	0.0	0.0	0.0	0.0
13.82	2601.25	15.40	13.51	1.37	0.0	0.0	0.0	0.0	0.0	0.0
13.63	1540.70	15.40	14.34	1.37	0.0	15.43	14.34	0.095	0.025	0.0
13.51	4869.50	16.00	7.39	1.37	0.0	19.47	9.12	0.603	0.226	0.327
13.41	5.341e+04	15.87	7.62	1.37	0.0	14.77	7.43	0.737	0.151	0.030
13.31	4324.19	16.20	7.27	1.37	0.0	14.78	7.34	0.809	0.175	0.011
12.56	9219.00	16.13	7.38	1.37	0.0	14.66	7.34	0.748	0.183	0.006
11.78	9339.06	16.13	7.36	1.37	0.0	14.78	7.34	0.754	0.168	0.004
11.20	283.34	14.71	9.83	0.09	0.0	14.72	9.09	1.170	0.012	0.520
11.00	9007.32	16.19	7.27	1.37	0.0	14.66	7.38	0.768	0.190	0.015

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
10.62	262.88	14.71	9.83	0.09	0.0	14.72	9.09	1.170	0.012	0.520
10.23	4497.59	16.20	7.27	1.37	0.0	14.78	7.33	0.756	0.174	0.010
10.13	1.461e+05	15.79	8.49	1.37	0.0	14.77	7.43	0.737	0.140	0.165
10.03	4324.19	16.20	7.27	1.37	0.0	14.78	7.34	0.809	0.175	0.011
9.28	9219.00	16.13	7.38	1.37	0.0	14.66	7.34	0.748	0.183	0.006
8.50	9326.91	16.14	7.36	1.37	0.0	14.78	7.34	0.754	0.169	0.003
7.92	283.34	14.71	9.83	0.09	0.0	14.72	9.09	1.170	0.012	0.520
7.72	8995.18	16.19	7.27	1.37	0.0	14.66	7.38	0.768	0.191	0.016
7.34	262.88	14.71	9.83	0.09	0.0	14.72	9.09	1.170	0.012	0.520
6.94	4497.59	16.20	7.27	1.37	0.0	14.78	7.33	0.756	0.174	0.010
6.84	1.451e+05	15.78	8.50	1.37	0.0	14.77	7.41	0.742	0.134	0.168
6.74	5320.79	16.20	7.26	1.37	0.0	14.78	7.34	0.809	0.176	0.011
5.96	1.105e+04	16.15	7.36	1.37	0.0	14.67	7.34	0.748	0.185	0.003
5.19	1.103e+04	16.14	7.35	1.37	0.0	14.78	7.34	0.755	0.169	0.002
4.41	9316.78	16.13	7.37	1.37	0.0	14.66	7.38	0.768	0.184	9.4582e-04
3.88	8210.44	16.20	7.27	1.37	0.0	14.78	7.33	0.756	0.174	0.010
3.63	4050.96	19.09	10.18	0.0	0.0	18.33	9.64	4.491	0.044	0.092
Risulta	5.179e+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	kg		kg		kg			
1	2.552	0.392	0.309	16.24	3.14e-03	4.306e+05	83.1	0.0	0.0	0.0	0.0
2	2.912	0.343	0.353	3.851e+05	74.4	1235.76	0.2	0.0	0.0	0.0	0.0
3	3.642	0.275	0.404	4.099e+04	7.9	8594.71	1.7	0.0	0.0	0.0	0.0
4	7.621	0.131	0.404	588.14	0.1	2.405e+04	4.6	0.0	0.0	0.0	0.0
5	7.877	0.127	0.404	1521.83	0.3	1.948e+04	3.8	0.0	0.0	0.0	0.0
6	8.080	0.124	0.404	4.862e+04	9.4	3924.08	0.8	0.0	0.0	0.0	0.0
7	8.430	0.119	0.404	246.38	4.76e-02	946.61	0.2	0.0	0.0	0.0	0.0
8	8.721	0.115	0.404	50.48	9.75e-03	1126.60	0.2	0.0	0.0	0.0	0.0
9	8.944	0.112	0.404	147.31	2.84e-02	980.25	0.2	0.0	0.0	0.0	0.0
10	9.335	0.107	0.404	1390.29	0.3	128.07	2.47e-02	0.0	0.0	0.0	0.0
11	9.389	0.107	0.404	5.76	1.11e-03	2.03e-04	0.0	0.0	0.0	0.0	0.0
12	9.433	0.106	0.404	587.67	0.1	27.45	5.30e-03	0.0	0.0	0.0	0.0
13	9.495	0.105	0.404	91.17	1.76e-02	346.36	6.69e-02	0.0	0.0	0.0	0.0
14	9.675	0.103	0.404	365.68	7.06e-02	292.15	5.64e-02	0.0	0.0	0.0	0.0
15	9.733	0.103	0.404	6875.86	1.3	1524.73	0.3	0.0	0.0	0.0	0.0
16	9.872	0.101	0.404	383.55	7.41e-02	7.03	1.36e-03	0.0	0.0	0.0	0.0
17	10.044	0.100	0.403	18.87	3.64e-03	876.66	0.2	0.0	0.0	0.0	0.0
18	10.163	0.098	0.400	460.48	8.89e-02	260.94	5.04e-02	0.0	0.0	0.0	0.0
19	10.553	0.095	0.392	10.60	2.05e-03	2633.89	0.5	0.0	0.0	0.0	0.0
20	10.632	0.094	0.390	51.28	9.90e-03	208.41	4.02e-02	0.0	0.0	0.0	0.0
21	10.653	0.094	0.390	5.45	1.05e-03	318.33	6.15e-02	0.0	0.0	0.0	0.0
22	10.716	0.093	0.388	0.21	3.98e-05	966.75	0.2	0.0	0.0	0.0	0.0
23	10.814	0.092	0.386	5.90	1.14e-03	359.82	6.95e-02	0.0	0.0	0.0	0.0
24	10.903	0.092	0.385	278.83	5.38e-02	343.71	6.64e-02	0.0	0.0	0.0	0.0
25	10.925	0.092	0.384	0.74	1.44e-04	341.49	6.59e-02	0.0	0.0	0.0	0.0
26	10.927	0.092	0.384	16.32	3.15e-03	63.57	1.23e-02	0.0	0.0	0.0	0.0
27	10.938	0.091	0.384	19.98	3.86e-03	0.19	3.69e-05	0.0	0.0	0.0	0.0
28	11.080	0.090	0.381	670.95	0.1	1945.79	0.4	0.0	0.0	0.0	0.0
29	11.130	0.090	0.380	20.26	3.91e-03	4.50	8.68e-04	0.0	0.0	0.0	0.0
30	11.182	0.089	0.379	560.68	0.1	24.98	4.82e-03	0.0	0.0	0.0	0.0
Risulta				4.891e+05		5.016e+05		0.0			
In percentuale				94.44		96.84		0.0			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: A
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.404 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.396 sec.
			fattore di struttura q: 1.000

CDC	Tipo	Sigla Id	Note
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 30
			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
m	kg	m	m	m	m	m	m			
15.18	1902.25	14.84	7.53	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
15.10	29.36	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.09	26.62	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	72.66	25.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	13.13	19.23	7.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	46.36	24.94	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	25.89	5.55	8.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.05	44.33	24.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.04	40.78	23.91	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	62.85	25.69	8.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	45.20	23.38	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.02	46.02	22.88	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	2183.18	15.45	8.27	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
15.01	33.78	12.71	8.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	50.89	25.69	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	47.76	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	53.74	22.33	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	41.85	21.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	33.71	24.95	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.98	60.13	20.77	7.75	-0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.97	37.74	24.43	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	19.36	19.09	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	47.04	20.75	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	29.68	23.90	6.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	45.25	20.25	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	42.10	19.78	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	38.63	23.38	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	35.81	19.23	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	31.07	22.89	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	76.02	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.41	19.09	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.61	19.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	11.00	18.80	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	13.66	18.72	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	44.88	22.33	6.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	25.25	18.19	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	51.34	24.96	6.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.90	73.95	19.53	7.25	-0.20	0.0	0.0	0.0	0.0	0.0	0.0
14.90	56.48	24.43	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	55.40	5.18	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	108.22	24.02	8.07	-0.22	0.0	0.0	0.0	0.0	0.0	0.0
14.89	68.16	17.11	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	24.23	19.04	7.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	42.57	23.90	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	33.36	20.75	6.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	50.98	16.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	28.88	5.55	8.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	95.69	21.99	6.57	-0.16	0.0	0.0	0.0	0.0	0.0	0.0
14.86	43.81	15.99	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	81.15	17.32	7.24	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.85	42.26	22.90	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	45.72	19.09	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	21.49	19.23	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	14.33	19.04	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	2166.91	15.46	9.00	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.84	37.62	19.23	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	57.98	14.87	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	33.82	12.74	9.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	60.43	22.33	6.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	54.76	12.31	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	49.95	14.37	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	41.88	21.71	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	57.61	18.19	6.82	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
14.81	60.47	13.76	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	50.50	21.28	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	66.21	18.32	6.70	-0.06	0.0	0.0	0.0	0.0	0.0	0.0
14.80	49.12	13.13	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	41.49	12.68	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	40.91	20.76	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	74.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	64.44	17.11	6.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	69.15	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	50.65	20.25	6.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	41.97	16.44	6.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	59.20	11.64	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	45.20	15.99	6.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	39.94	19.79	6.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	48.86	24.98	5.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	82.06	13.30	7.17	-0.22	0.0	0.0	0.0	0.0	0.0	0.0
14.75	65.62	5.18	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	91.84	18.66	6.23	-0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.74	41.81	19.23	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	53.77	14.87	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	54.75	19.04	6.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	44.28	10.28	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	38.73	23.88	5.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	47.90	18.19	6.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	40.12	14.37	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	56.20	9.63	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	46.80	23.38	5.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	55.95	13.76	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	19.29	5.55	9.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	43.28	9.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	36.79	22.91	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	66.54	22.45	5.33	-0.39	0.0	0.0	0.0	0.0	0.0	0.0
14.70	39.15	13.15	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	47.76	8.58	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	8.57	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	82.15	23.30	5.10	-0.13	0.0	0.0	0.0	0.0	0.0	0.0
14.69	41.66	12.68	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	64.98	25.69	9.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	40.65	7.98	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	98.72	20.91	8.04	-0.27	0.0	0.0	0.0	0.0	0.0	0.0
14.68	51.42	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	23.38	19.23	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	34.63	21.68	5.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	38.48	7.53	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	2155.67	15.46	9.74	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.67	24.65	23.88	4.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	52.29	11.64	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	108.05	18.65	5.67	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.67	42.90	7.12	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	33.74	12.78	9.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	30.01	23.38	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	42.90	16.46	5.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.96	11.10	6.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	47.78	15.99	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.21	20.76	5.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	161.15	14.45	7.70	-0.61	0.0	0.0	0.0	0.0	0.0	0.0
14.65	53.25	6.48	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	74.78	13.26	6.39	-0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.65	85.63	19.12	5.41	-0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.64	35.70	22.33	4.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	58.99	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	48.70	5.86	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	47.83	9.63	6.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	12.67	5.55	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	54.81	14.87	6.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	29.85	19.80	5.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	23.90	21.68	4.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	31.06	9.03	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	57.39	24.99	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	124.35	11.81	6.45	-0.81	0.0	0.0	0.0	0.0	0.0	0.0
14.62	30.81	19.23	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	37.30	8.58	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	44.60	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	23.17	20.76	4.92	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
14.61	59.43	24.43	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	56.36	13.76	6.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	29.12	8.06	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	28.47	20.25	4.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	33.29	7.53	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	48.91	23.87	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	101.08	8.29	8.50	-0.40	0.0	0.0	0.0	0.0	0.0	0.0
14.60	22.45	19.80	4.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	27.69	7.13	6.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	52.84	23.38	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	42.20	12.68	6.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	23.80	19.23	4.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	49.03	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	75.55	12.25	6.06	-0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.58	48.36	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	51.04	11.64	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	31.38	5.86	7.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	32.99	11.14	6.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	64.86	22.33	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	38.89	10.65	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	31.88	5.18	7.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	146.37	17.62	5.03	-0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.56	32.25	10.26	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	55.89	13.99	6.34	-0.55	0.0	0.0	0.0	0.0	0.0	0.0
14.55	147.60	15.87	5.26	-0.60	0.0	0.0	0.0	0.0	0.0	0.0
14.54	31.04	9.02	6.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.54	90.90	18.55	4.75	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.54	36.68	8.58	6.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	29.16	8.06	6.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	50.15	20.76	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	54.89	14.87	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	57.90	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	33.37	7.53	6.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	93.14	17.65	4.74	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.52	27.70	7.14	6.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	68.17	19.09	10.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	26.22	19.23	10.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	50.49	25.01	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	52.36	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	44.85	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	98.59	10.64	5.79	-0.36	0.0	0.0	0.0	0.0	0.0	0.0
14.51	2143.44	15.45	10.47	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.50	42.10	5.86	6.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	58.75	24.43	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	51.17	5.18	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	85.24	16.43	4.77	-0.30	0.0	0.0	0.0	0.0	0.0	0.0
14.50	33.71	12.81	10.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	38.93	19.04	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	41.96	23.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	42.73	12.68	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	49.70	12.31	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	115.87	12.02	8.37	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.48	71.77	18.59	5.40	-0.89	0.0	0.0	0.0	0.0	0.0	0.0
14.48	33.03	11.18	5.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	40.40	18.19	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	40.51	10.65	5.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	32.24	10.25	5.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	41.71	22.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	77.47	12.75	5.13	-0.41	0.0	0.0	0.0	0.0	0.0	0.0
14.46	31.03	9.00	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	36.32	8.58	5.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	61.15	22.33	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	29.16	8.06	5.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	81.17	13.19	4.95	-0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.45	53.19	5.18	10.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	62.57	12.35	5.05	-0.47	0.0	0.0	0.0	0.0	0.0	0.0
14.44	42.30	15.99	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	41.44	21.64	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	70.62	11.58	5.11	-0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.44	37.13	15.51	4.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.43	46.91	21.28	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	47.98	14.87	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	40.54	20.77	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	34.09	18.19	3.89	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
14.42	37.05	14.39	4.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	52.68	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	49.41	20.25	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	24.33	17.78	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	50.73	13.76	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	39.65	19.82	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	48.87	25.02	2.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	37.87	13.19	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	37.36	17.11	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	36.83	5.85	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	98.90	22.17	3.03	-0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.39	41.32	12.68	4.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	46.37	12.31	4.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	84.53	14.79	4.20	-0.37	0.0	0.0	0.0	0.0	0.0	0.0
14.38	33.06	11.21	4.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	42.13	10.65	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	32.23	10.23	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	47.80	9.63	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.42	16.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	31.02	8.99	5.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.96	8.58	5.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	29.16	8.06	5.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	71.09	16.28	3.90	-0.82	0.0	0.0	0.0	0.0	0.0	0.0
14.37	27.70	7.15	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	41.29	15.99	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	47.61	23.38	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	40.74	6.48	5.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	36.90	15.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	35.60	22.81	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	38.11	18.19	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	24.69	5.85	5.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	95.54	23.95	6.77	-0.17	0.0	0.0	0.0	0.0	0.0	0.0
14.35	43.75	14.87	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	38.27	5.18	5.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	2152.58	15.49	11.11	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.33	38.23	14.39	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	32.96	21.62	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	51.49	10.54	9.49	-0.38	0.0	0.0	0.0	0.0	0.0	0.0
14.32	35.54	21.28	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.20	17.11	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	26.45	5.55	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.78	13.76	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	30.24	20.77	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	17.50	13.35	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	20.21	13.20	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	67.82	12.31	11.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	52.95	16.50	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	120.45	15.85	7.67	-1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.30	67.88	14.13	3.69	-0.64	0.0	0.0	0.0	0.0	0.0	0.0
14.30	28.18	8.06	4.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	61.06	7.93	4.68	-0.07	0.0	0.0	0.0	0.0	0.0	0.0
14.30	28.20	8.98	4.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	48.32	25.04	1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	131.70	13.03	3.83	-0.32	0.0	0.0	0.0	0.0	0.0	0.0
14.29	54.92	15.04	3.48	-0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.29	77.71	8.42	4.56	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.29	105.87	21.89	6.45	-0.27	0.0	0.0	0.0	0.0	0.0	0.0
14.29	26.60	11.25	4.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	37.13	11.64	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	72.22	15.32	3.40	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.29	42.66	15.49	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	36.83	23.84	1.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	30.41	5.85	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	46.56	23.38	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	29.09	19.23	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	89.42	16.63	3.10	-0.88	0.0	0.0	0.0	0.0	0.0	0.0
14.28	51.37	14.87	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	45.24	22.33	2.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	20.85	17.77	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	38.59	14.39	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	30.16	21.61	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	31.55	21.28	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	26.82	20.77	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	45.63	13.76	3.42	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
14.25	30.45	20.25	2.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	23.48	19.85	2.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	35.33	13.35	3.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	24.54	19.23	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	24.86	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	55.34	17.11	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	41.03	12.68	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	33.10	12.31	3.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	38.33	11.64	3.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	27.97	11.27	3.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	38.74	10.65	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.36	10.21	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	43.18	9.63	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.74	8.97	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	54.37	12.11	3.48	-0.46	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.38	8.06	4.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	32.51	7.53	4.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	27.71	7.16	4.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.06	28.74	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	162.77	25.36	6.41	-0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.22	170.46	25.96	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	164.11	24.42	7.53	-0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.22	163.47	18.53	6.71	-0.83	0.0	0.0	0.0	0.0	0.0	0.0
14.22	133.86	21.17	7.53	-0.04	0.0	0.0	0.0	0.0	0.0	0.0
14.22	138.19	19.49	7.53	-0.04	0.0	0.0	0.0	0.0	0.0	0.0
14.22	35.63	18.06	7.53	-0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.22	102.49	16.77	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	104.53	15.42	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	145.03	13.69	7.53	-0.07	0.0	0.0	0.0	0.0	0.0	0.0
14.22	94.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.48	9.91	6.74	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.22	223.18	15.22	7.75	-1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	90.04	7.57	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	251.85	9.63	7.66	-1.06	0.0	0.0	0.0	0.0	0.0	0.0
14.21	115.17	3.67	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	155.00	2.18	7.53	-0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.21	59.04	24.01	7.05	-0.33	0.0	0.0	0.0	0.0	0.0	0.0
14.21	26.17	5.18	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	13.29	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	17.99	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	53.99	29.13	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	123.00	12.88	8.51	-1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.20	65.43	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	53.99	1.65	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	47.23	29.13	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	46.44	10.16	6.90	-0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.20	28.85	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	35.15	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	101.85	14.54	9.71	-1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.19	29.23	19.09	11.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	40.48	29.13	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	75.62	25.69	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	18.39	19.23	11.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	135.87	16.04	5.57	-1.17	0.0	0.0	0.0	0.0	0.0	0.0
14.18	59.00	24.43	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	41.64	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	76.49	15.66	8.62	-1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.18	39.39	23.83	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	33.45	1.65	11.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	52.17	23.38	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	58.75	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	21.11	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	37.60	22.73	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	51.14	22.33	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	2207.36	15.62	11.93	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.17	35.78	21.59	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	37.83	21.28	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	66.47	23.20	3.19	-0.25	0.0	0.0	0.0	0.0	0.0	0.0
14.17	35.95	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	39.24	20.25	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.03	13.34	6.41	-0.72	0.0	0.0	0.0	0.0	0.0	0.0
14.16	69.91	25.69	11.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	60.93	19.15	3.17	-9.70e-03	0.0	0.0	0.0	0.0	0.0	0.0
14.16	56.55	19.04	1.85	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
14.16	58.40	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	127.96	18.85	3.85	-0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.16	29.64	17.77	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	43.35	24.30	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	132.48	14.85	6.40	-0.92	0.0	0.0	0.0	0.0	0.0	0.0
14.15	39.86	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.85	16.50	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.75	16.42	4.05	-0.73	0.0	0.0	0.0	0.0	0.0	0.0
14.15	84.66	16.65	4.11	-0.70	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.23	13.22	2.71	-0.40	0.0	0.0	0.0	0.0	0.0	0.0
14.15	82.73	13.18	4.05	-0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.15	21.86	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	56.48	13.05	3.81	-0.54	0.0	0.0	0.0	0.0	0.0	0.0
14.15	69.24	12.88	4.12	-0.66	0.0	0.0	0.0	0.0	0.0	0.0
14.15	42.16	15.46	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	28.78	8.96	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	74.54	5.18	4.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	46.75	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	92.74	12.43	2.79	-0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.14	39.37	8.80	3.74	-0.25	0.0	0.0	0.0	0.0	0.0	0.0
14.14	104.63	13.23	6.11	-0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.14	60.49	13.50	3.33	-0.42	0.0	0.0	0.0	0.0	0.0	0.0
14.13	44.10	13.76	2.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	27.93	11.31	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	70.71	12.45	2.71	-0.09	0.0	0.0	0.0	0.0	0.0	0.0
14.13	81.41	14.62	2.98	-0.34	0.0	0.0	0.0	0.0	0.0	0.0
14.13	57.65	10.32	3.37	-0.38	0.0	0.0	0.0	0.0	0.0	0.0
14.13	41.59	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.12	224.50	14.31	3.89	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.11	41.57	12.74	3.51	-0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.11	36.06	25.69	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	61.60	14.94	3.39	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.11	16.96	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	47.73	12.31	12.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	1952.37	15.81	1.76	-1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.07	26.42	19.09	12.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.06	12.39	19.23	12.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	17.39	22.33	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	13.16	22.65	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	3209.66	15.39	12.68	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.01	25.36	23.51	-0.03	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.01	16.28	25.08	-0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.00	545.87	14.34	1.46	-0.96	0.0	0.0	0.0	0.0	0.0	0.0
13.82	2601.25	15.40	13.51	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
13.63	1540.70	15.40	14.34	-1.37	0.0	15.43	14.34	0.095	0.025	0.0
13.51	4869.50	16.00	7.39	-1.37	0.0	19.47	9.12	0.603	0.226	0.327
13.41	5.341e+04	15.87	7.62	-1.37	0.0	14.77	7.43	0.737	0.151	0.030
13.31	4324.19	16.20	7.27	-1.37	0.0	14.78	7.34	0.809	0.175	0.011
12.56	9219.00	16.13	7.38	-1.37	0.0	14.66	7.34	0.748	0.183	0.006
11.78	9339.06	16.13	7.36	-1.37	0.0	14.78	7.34	0.754	0.168	0.004
11.20	283.34	14.71	9.83	-0.09	0.0	14.72	9.09	1.170	0.012	0.520
11.00	9007.32	16.19	7.27	-1.37	0.0	14.66	7.38	0.768	0.190	0.015
10.62	262.88	14.71	9.83	-0.09	0.0	14.72	9.09	1.170	0.012	0.520
10.23	4497.59	16.20	7.27	-1.37	0.0	14.78	7.33	0.756	0.174	0.010
10.13	1.461e+05	15.79	8.49	-1.37	0.0	14.77	7.43	0.737	0.140	0.165
10.03	4324.19	16.20	7.27	-1.37	0.0	14.78	7.34	0.809	0.175	0.011
9.28	9219.00	16.13	7.38	-1.37	0.0	14.66	7.34	0.748	0.183	0.006
8.50	9326.91	16.14	7.36	-1.37	0.0	14.78	7.34	0.754	0.169	0.003
7.92	283.34	14.71	9.83	-0.09	0.0	14.72	9.09	1.170	0.012	0.520
7.72	8995.18	16.19	7.27	-1.37	0.0	14.66	7.38	0.768	0.191	0.016
7.34	262.88	14.71	9.83	-0.09	0.0	14.72	9.09	1.170	0.012	0.520
6.94	4497.59	16.20	7.27	-1.37	0.0	14.78	7.33	0.756	0.174	0.010
6.84	1.451e+05	15.78	8.50	-1.37	0.0	14.77	7.41	0.742	0.134	0.168
6.74	5320.79	16.20	7.26	-1.37	0.0	14.78	7.34	0.809	0.176	0.011
5.96	1.105e+04	16.15	7.36	-1.37	0.0	14.67	7.34	0.748	0.185	0.003
5.19	1.103e+04	16.14	7.35	-1.37	0.0	14.78	7.34	0.755	0.169	0.002
4.41	9316.78	16.13	7.37	-1.37	0.0	14.66	7.38	0.768	0.184	9.4582e-04
3.88	8210.44	16.20	7.27	-1.37	0.0	14.78	7.33	0.756	0.174	0.010
3.63	4050.96	19.09	10.18	0.0	0.0	18.33	9.64	4.491	0.044	0.092
Risulta	5.179e+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	kg		kg		kg			
1	2.527	0.396	0.306	1.444e+04	2.8	4.054e+05	78.3	0.0	0.0	0.0	0.0
2	2.936	0.341	0.356	3.716e+05	71.8	2.502e+04	4.8	0.0	0.0	0.0	0.0
3	3.584	0.279	0.404	4.008e+04	7.7	9789.76	1.9	0.0	0.0	0.0	0.0
4	7.587	0.132	0.404	1.123e+04	2.2	3.262e+04	6.3	0.0	0.0	0.0	0.0
5	8.136	0.123	0.404	7192.86	1.4	104.15	2.01e-02	0.0	0.0	0.0	0.0
6	8.196	0.122	0.404	2566.53	0.5	1610.37	0.3	0.0	0.0	0.0	0.0
7	8.303	0.120	0.404	3.006e+04	5.8	1.547e+04	3.0	0.0	0.0	0.0	0.0
8	8.746	0.114	0.404	1203.54	0.2	0.96	1.85e-04	0.0	0.0	0.0	0.0
9	8.907	0.112	0.404	850.12	0.2	1283.52	0.2	0.0	0.0	0.0	0.0
10	9.380	0.107	0.404	2282.67	0.4	1657.88	0.3	0.0	0.0	0.0	0.0
11	9.390	0.107	0.404	203.39	3.93e-02	91.16	1.76e-02	0.0	0.0	0.0	0.0
12	9.448	0.106	0.404	3112.81	0.6	105.36	2.03e-02	0.0	0.0	0.0	0.0
13	9.686	0.103	0.404	421.89	8.15e-02	6.72	1.30e-03	0.0	0.0	0.0	0.0
14	9.871	0.101	0.404	226.34	4.37e-02	2.79	5.39e-04	0.0	0.0	0.0	0.0
15	9.877	0.101	0.404	2.28	4.40e-04	39.72	7.67e-03	0.0	0.0	0.0	0.0
16	10.112	0.099	0.402	1773.07	0.3	1970.22	0.4	0.0	0.0	0.0	0.0
17	10.274	0.097	0.398	447.51	8.64e-02	902.51	0.2	0.0	0.0	0.0	0.0
18	10.389	0.096	0.395	1.90	3.67e-04	0.04	8.44e-06	0.0	0.0	0.0	0.0
19	10.494	0.095	0.393	11.90	2.30e-03	397.46	7.67e-02	0.0	0.0	0.0	0.0
20	10.561	0.095	0.392	7.80	1.51e-03	333.01	6.43e-02	0.0	0.0	0.0	0.0
21	10.573	0.095	0.391	38.33	7.40e-03	7.00	1.35e-03	0.0	0.0	0.0	0.0
22	10.739	0.093	0.388	799.64	0.2	2026.94	0.4	0.0	0.0	0.0	0.0
23	10.760	0.093	0.388	9.16	1.77e-03	2.00e-04	0.0	0.0	0.0	0.0	0.0
24	10.766	0.093	0.387	80.24	1.55e-02	393.61	7.60e-02	0.0	0.0	0.0	0.0
25	10.896	0.092	0.385	1507.85	0.3	453.85	8.76e-02	0.0	0.0	0.0	0.0
26	10.926	0.092	0.384	56.55	1.09e-02	185.56	3.58e-02	0.0	0.0	0.0	0.0
27	10.936	0.091	0.384	221.26	4.27e-02	134.53	2.60e-02	0.0	0.0	0.0	0.0
28	11.023	0.091	0.382	353.92	6.83e-02	264.94	5.12e-02	0.0	0.0	0.0	0.0
29	11.047	0.091	0.382	271.36	5.24e-02	215.29	4.16e-02	0.0	0.0	0.0	0.0
30	11.143	0.090	0.380	0.01	2.88e-06	0.05	9.09e-06	0.0	0.0	0.0	0.0
Risulta				4.911e+05		5.004e+05		0.0			
In percentuale				94.82		96.62		0.0			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: A
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.173 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.337 sec.
			numero di modi considerati: 30
			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
m	kg	m	m	m	m	m	m			
15.18	1902.25	14.84	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.10	29.36	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.09	26.62	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	72.66	25.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	13.13	19.23	7.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	46.36	24.94	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	25.89	5.55	8.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.05	44.33	24.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.04	40.78	23.91	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	62.85	25.69	8.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	45.20	23.38	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.02	46.02	22.88	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	2183.18	15.45	8.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	33.78	12.71	8.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	50.89	25.69	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	47.76	12.31	8.29	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
15.00	53.74	22.33	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	41.85	21.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	33.71	24.95	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.98	60.13	20.77	7.75	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.97	37.74	24.43	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	19.36	19.09	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	47.04	20.75	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	29.68	23.90	6.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	45.25	20.25	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	42.10	19.78	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	38.63	23.38	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	35.81	19.23	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	31.07	22.89	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	76.02	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.41	19.09	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.61	19.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	11.00	18.80	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	13.66	18.72	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	44.88	22.33	6.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	25.25	18.19	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	51.34	24.96	6.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.90	73.95	19.53	7.25	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.90	56.48	24.43	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	55.40	5.18	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	108.22	24.02	8.07	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.89	68.16	17.11	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	24.23	19.04	7.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	42.57	23.90	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	33.36	20.75	6.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	50.98	16.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	28.88	5.55	8.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	95.69	21.99	6.57	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.86	43.81	15.99	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	81.15	17.32	7.24	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.85	42.26	22.90	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	45.72	19.09	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	21.49	19.23	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	14.33	19.04	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	2166.91	15.46	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	37.62	19.23	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	57.98	14.87	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	33.82	12.74	9.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	60.43	22.33	6.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	54.76	12.31	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	49.95	14.37	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	41.88	21.71	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	57.61	18.19	6.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.81	60.47	13.76	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	50.50	21.28	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	66.21	18.32	6.70	0.0	-0.01	0.0	0.0	0.0	0.0	0.0
14.80	49.12	13.13	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	41.49	12.68	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	40.91	20.76	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	74.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	64.44	17.11	6.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	69.15	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	50.65	20.25	6.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	41.97	16.44	6.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	59.20	11.64	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	45.20	15.99	6.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	39.94	19.79	6.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	48.86	24.98	5.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	82.06	13.30	7.17	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.75	65.62	5.18	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	91.84	18.66	6.23	0.0	-0.11	0.0	0.0	0.0	0.0	0.0
14.74	41.81	19.23	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	53.77	14.87	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	54.75	19.04	6.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	44.28	10.28	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	38.73	23.88	5.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	47.90	18.19	6.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	40.12	14.37	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	56.20	9.63	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	46.80	23.38	5.27	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
14.71	55.95	13.76	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	19.29	5.55	9.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	43.28	9.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	36.79	22.91	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	66.54	22.45	5.33	0.0	-0.06	0.0	0.0	0.0	0.0	0.0
14.70	39.15	13.15	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	47.76	8.58	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	8.57	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	82.15	23.30	5.10	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.69	41.66	12.68	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	64.98	25.69	9.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	40.65	7.98	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	98.72	20.91	8.04	0.0	-0.24	0.0	0.0	0.0	0.0	0.0
14.68	51.42	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	23.38	19.23	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	34.63	21.68	5.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	38.48	7.53	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	2155.67	15.46	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	24.65	23.88	4.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	52.29	11.64	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	108.05	18.65	5.67	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.67	42.90	7.12	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	33.74	12.78	9.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	30.01	23.38	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	42.90	16.46	5.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.96	11.10	6.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	47.78	15.99	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.21	20.76	5.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	161.15	14.45	7.70	0.0	-0.25	0.0	0.0	0.0	0.0	0.0
14.65	53.25	6.48	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	74.78	13.26	6.39	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.65	85.63	19.12	5.41	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.64	35.70	22.33	4.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	58.99	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	48.70	5.86	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	47.83	9.63	6.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	12.67	5.55	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	54.81	14.87	6.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	29.85	19.80	5.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	23.90	21.68	4.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	31.06	9.03	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	57.39	24.99	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	124.35	11.81	6.45	0.0	-0.13	0.0	0.0	0.0	0.0	0.0
14.62	30.81	19.23	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	37.30	8.58	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	44.60	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	23.17	20.76	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	59.43	24.43	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	56.36	13.76	6.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	29.12	8.06	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	28.47	20.25	4.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	33.29	7.53	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	48.91	23.87	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	101.08	8.29	8.50	0.0	-0.20	0.0	0.0	0.0	0.0	0.0
14.60	22.45	19.80	4.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	27.69	7.13	6.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	52.84	23.38	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	42.20	12.68	6.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	23.80	19.23	4.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	49.03	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	75.55	12.25	6.06	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.58	48.36	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	51.04	11.64	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	31.38	5.86	7.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	32.99	11.14	6.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	64.86	22.33	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	38.89	10.65	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	31.88	5.18	7.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	146.37	17.62	5.03	0.0	-8.90e-03	0.0	0.0	0.0	0.0	0.0
14.56	32.25	10.26	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	55.89	13.99	6.34	0.0	-0.25	0.0	0.0	0.0	0.0	0.0
14.55	147.60	15.87	5.26	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.54	31.04	9.02	6.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.54	90.90	18.55	4.75	0.0	-0.05	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
14.54	36.68	8.58	6.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	29.16	8.06	6.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	50.15	20.76	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	54.89	14.87	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	57.90	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	33.37	7.53	6.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	93.14	17.65	4.74	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.52	27.70	7.14	6.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	68.17	19.09	10.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	26.22	19.23	10.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	50.49	25.01	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	52.36	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	44.85	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	98.59	10.64	5.79	0.0	-0.06	0.0	0.0	0.0	0.0	0.0
14.51	2143.44	15.45	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	42.10	5.86	6.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	58.75	24.43	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	51.17	5.18	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	85.24	16.43	4.77	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.50	33.71	12.81	10.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	38.93	19.04	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	41.96	23.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	42.73	12.68	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	49.70	12.31	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	115.87	12.02	8.37	0.0	-0.26	0.0	0.0	0.0	0.0	0.0
14.48	71.77	18.59	5.40	0.0	-0.36	0.0	0.0	0.0	0.0	0.0
14.48	33.03	11.18	5.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	40.40	18.19	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	40.51	10.65	5.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	32.24	10.25	5.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	41.71	22.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	77.47	12.75	5.13	0.0	-0.07	0.0	0.0	0.0	0.0	0.0
14.46	31.03	9.00	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	36.32	8.58	5.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	61.15	22.33	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	29.16	8.06	5.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	81.17	13.19	4.95	0.0	-0.08	0.0	0.0	0.0	0.0	0.0
14.45	53.19	5.18	10.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	62.57	12.35	5.05	0.0	-0.08	0.0	0.0	0.0	0.0	0.0
14.44	42.30	15.99	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	41.44	21.64	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	70.62	11.58	5.11	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.44	37.13	15.51	4.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.43	46.91	21.28	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	47.98	14.87	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	40.54	20.77	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	34.09	18.19	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	37.05	14.39	4.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	52.68	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	49.41	20.25	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	24.33	17.78	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	50.73	13.76	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	39.65	19.82	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	48.87	25.02	2.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	37.87	13.19	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	37.36	17.11	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	36.83	5.85	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	98.90	22.17	3.03	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.39	41.32	12.68	4.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	46.37	12.31	4.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	84.53	14.79	4.20	0.0	-0.06	0.0	0.0	0.0	0.0	0.0
14.38	33.06	11.21	4.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	42.13	10.65	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	32.23	10.23	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	47.80	9.63	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.42	16.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	31.02	8.99	5.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.96	8.58	5.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	29.16	8.06	5.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	71.09	16.28	3.90	0.0	-0.13	0.0	0.0	0.0	0.0	0.0
14.37	27.70	7.15	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	41.29	15.99	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	47.61	23.38	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	40.74	6.48	5.41	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
14.36	36.90	15.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	35.60	22.81	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	38.11	18.19	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	24.69	5.85	5.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	95.54	23.95	6.77	0.0	-0.43	0.0	0.0	0.0	0.0	0.0
14.35	43.75	14.87	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	38.27	5.18	5.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	2152.58	15.49	11.11	0.0	-0.39	0.0	0.0	0.0	0.0	0.0
14.33	38.23	14.39	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	32.96	21.62	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	51.49	10.54	9.49	0.0	-0.30	0.0	0.0	0.0	0.0	0.0
14.32	35.54	21.28	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.20	17.11	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	26.45	5.55	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.78	13.76	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	30.24	20.77	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	17.50	13.35	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	20.21	13.20	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	67.82	12.31	11.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	52.95	16.50	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	120.45	15.85	7.67	0.0	-0.48	0.0	0.0	0.0	0.0	0.0
14.30	67.88	14.13	3.69	0.0	-0.10	0.0	0.0	0.0	0.0	0.0
14.30	28.18	8.06	4.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	61.06	7.93	4.68	0.0	-0.01	0.0	0.0	0.0	0.0	0.0
14.30	28.20	8.98	4.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	48.32	25.04	1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	131.70	13.03	3.83	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.29	54.92	15.04	3.48	0.0	-0.08	0.0	0.0	0.0	0.0	0.0
14.29	77.71	8.42	4.56	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.29	105.87	21.89	6.45	0.0	-0.47	0.0	0.0	0.0	0.0	0.0
14.29	26.60	11.25	4.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	37.13	11.64	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	72.22	15.32	3.40	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
14.29	42.66	15.49	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	36.83	23.84	1.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	30.41	5.85	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	46.56	23.38	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	29.09	19.23	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	89.42	16.63	3.10	0.0	-0.14	0.0	0.0	0.0	0.0	0.0
14.28	51.37	14.87	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	45.24	22.33	2.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	20.85	17.77	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	38.59	14.39	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	30.16	21.61	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	31.55	21.28	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	26.82	20.77	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	45.63	13.76	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	30.45	20.25	2.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	23.48	19.85	2.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	35.33	13.35	3.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	24.54	19.23	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	24.86	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	55.34	17.11	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	41.03	12.68	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	33.10	12.31	3.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	38.33	11.64	3.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	27.97	11.27	3.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	38.74	10.65	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.36	10.21	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	43.18	9.63	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.74	8.97	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	54.37	12.11	3.48	0.0	-0.08	0.0	0.0	0.0	0.0	0.0
14.23	28.38	8.06	4.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	32.51	7.53	4.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	27.71	7.16	4.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.06	28.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	162.77	25.36	6.41	0.0	-0.25	0.0	0.0	0.0	0.0	0.0
14.22	170.46	25.96	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	164.11	24.42	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	163.47	18.53	6.71	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
14.22	133.86	21.17	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	138.19	19.49	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	35.63	18.06	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	102.49	16.77	7.53	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
14.22	104.53	15.42	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	145.03	13.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	94.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.48	9.91	6.74	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
14.22	223.18	15.22	7.75	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.21	90.04	7.57	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	251.85	9.63	7.66	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.21	115.17	3.67	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	155.00	2.18	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	59.04	24.01	7.05	0.0	-0.01	0.0	0.0	0.0	0.0	0.0
14.21	26.17	5.18	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	13.29	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	17.99	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	53.99	29.13	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	123.00	12.88	8.51	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.20	65.43	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	53.99	1.65	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	47.23	29.13	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	46.44	10.16	6.90	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.20	28.85	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	35.15	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	101.85	14.54	9.71	0.0	-2.55e-03	0.0	0.0	0.0	0.0	0.0
14.19	29.23	19.09	11.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	40.48	29.13	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	75.62	25.69	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	18.39	19.23	11.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	135.87	16.04	5.57	0.0	-0.47	0.0	0.0	0.0	0.0	0.0
14.18	59.00	24.43	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	41.64	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	76.49	15.66	8.62	0.0	-0.23	0.0	0.0	0.0	0.0	0.0
14.18	39.39	23.83	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	33.45	1.65	11.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	52.17	23.38	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	58.75	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	21.11	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	37.60	22.73	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	51.14	22.33	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	2207.36	15.62	11.93	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.17	35.78	21.59	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	37.83	21.28	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	66.47	23.20	3.19	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
14.17	35.95	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	39.24	20.25	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.03	13.34	6.41	0.0	-0.51	0.0	0.0	0.0	0.0	0.0
14.16	69.91	25.69	11.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	60.93	19.15	3.17	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
14.16	56.55	19.04	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.40	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	127.96	18.85	3.85	0.0	-0.17	0.0	0.0	0.0	0.0	0.0
14.16	29.64	17.77	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	43.35	24.30	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	132.48	14.85	6.40	0.0	-0.50	0.0	0.0	0.0	0.0	0.0
14.15	39.86	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.85	16.50	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.75	16.42	4.05	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.15	84.66	16.65	4.11	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.15	81.23	13.22	2.71	0.0	-0.06	0.0	0.0	0.0	0.0	0.0
14.15	82.73	13.18	4.05	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.15	21.86	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	56.48	13.05	3.81	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.15	69.24	12.88	4.12	0.0	-0.02	0.0	0.0	0.0	0.0	0.0
14.15	42.16	15.46	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	28.78	8.96	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	74.54	5.18	4.59	0.0	-0.07	0.0	0.0	0.0	0.0	0.0
14.14	46.75	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	92.74	12.43	2.79	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.14	39.37	8.80	3.74	0.0	-0.11	0.0	0.0	0.0	0.0	0.0
14.14	104.63	13.23	6.11	0.0	-0.48	0.0	0.0	0.0	0.0	0.0
14.14	60.49	13.50	3.33	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.13	44.10	13.76	2.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	27.93	11.31	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	70.71	12.45	2.71	0.0	-0.01	0.0	0.0	0.0	0.0	0.0
14.13	81.41	14.62	2.98	0.0	-0.04	0.0	0.0	0.0	0.0	0.0
14.13	57.65	10.32	3.37	0.0	-0.12	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
14.13	41.59	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.12	224.50	14.31	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	41.57	12.74	3.51	0.0	-0.09	0.0	0.0	0.0	0.0	0.0
14.11	36.06	25.69	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	61.60	14.94	3.39	0.0	-9.09e-03	0.0	0.0	0.0	0.0	0.0
14.11	16.96	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	47.73	12.31	12.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	1952.37	15.81	1.76	0.0	-0.17	0.0	0.0	0.0	0.0	0.0
14.07	26.42	19.09	12.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.06	12.39	19.23	12.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	17.39	22.33	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	13.16	22.65	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	3209.66	15.39	12.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	25.36	23.51	-0.03	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
14.01	16.28	25.08	-0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.00	545.87	14.34	1.46	0.0	-0.16	0.0	0.0	0.0	0.0	0.0
13.82	2601.25	15.40	13.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.63	1540.70	15.40	14.34	0.0	0.0	15.43	14.34	0.095	0.025	0.0
13.51	4869.50	16.00	7.39	0.0	-0.63	19.47	9.12	0.603	0.226	0.327
13.41	5.341e+04	15.87	7.62	0.0	-0.63	14.77	7.43	0.737	0.151	0.030
13.31	4324.19	16.20	7.27	0.0	-0.63	14.78	7.34	0.809	0.175	0.011
12.56	9219.00	16.13	7.38	0.0	-0.63	14.66	7.34	0.748	0.183	0.006
11.78	9339.06	16.13	7.36	0.0	-0.63	14.78	7.34	0.754	0.168	0.004
11.20	283.34	14.71	9.83	0.0	-0.10	14.72	9.09	1.170	0.012	0.520
11.00	9007.32	16.19	7.27	0.0	-0.63	14.66	7.38	0.768	0.190	0.015
10.62	262.88	14.71	9.83	0.0	-0.10	14.72	9.09	1.170	0.012	0.520
10.23	4497.59	16.20	7.27	0.0	-0.63	14.78	7.33	0.756	0.174	0.010
10.13	1.461e+05	15.79	8.49	0.0	-0.63	14.77	7.43	0.737	0.140	0.165
10.03	4324.19	16.20	7.27	0.0	-0.63	14.78	7.34	0.809	0.175	0.011
9.28	9219.00	16.13	7.38	0.0	-0.63	14.66	7.34	0.748	0.183	0.006
8.50	9326.91	16.14	7.36	0.0	-0.63	14.78	7.34	0.754	0.169	0.003
7.92	283.34	14.71	9.83	0.0	-0.10	14.72	9.09	1.170	0.012	0.520
7.72	8995.18	16.19	7.27	0.0	-0.63	14.66	7.38	0.768	0.191	0.016
7.34	262.88	14.71	9.83	0.0	-0.10	14.72	9.09	1.170	0.012	0.520
6.94	4497.59	16.20	7.27	0.0	-0.63	14.78	7.33	0.756	0.174	0.010
6.84	1.451e+05	15.78	8.50	0.0	-0.63	14.77	7.41	0.742	0.134	0.168
6.74	5320.79	16.20	7.26	0.0	-0.63	14.78	7.34	0.809	0.176	0.011
5.96	1.105e+04	16.15	7.36	0.0	-0.63	14.67	7.34	0.748	0.185	0.003
5.19	1.103e+04	16.14	7.35	0.0	-0.63	14.78	7.34	0.755	0.169	0.002
4.41	9316.78	16.13	7.37	0.0	-0.63	14.66	7.38	0.768	0.184	9.4582e-04
3.88	8210.44	16.20	7.27	0.0	-0.63	14.78	7.33	0.756	0.174	0.010
3.63	4050.96	19.09	10.18	0.0	-0.22	18.33	9.64	4.491	0.044	0.092
Risulta	5.179e+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	kg		kg		kg			
1	2.577	0.388	0.120	3943.97	0.8	4.358e+05	84.1	0.0	0.0	0.0	0.0
2	2.964	0.337	0.138	3.963e+05	76.5	4436.96	0.9	0.0	0.0	0.0	0.0
3	3.474	0.288	0.162	2.597e+04	5.0	15.54	3.00e-03	0.0	0.0	0.0	0.0
4	7.888	0.127	0.173	3953.59	0.8	4.424e+04	8.5	0.0	0.0	0.0	0.0
5	8.193	0.122	0.173	5834.50	1.1	444.89	8.59e-02	0.0	0.0	0.0	0.0
6	8.305	0.120	0.173	2.680e+04	5.2	890.56	0.2	0.0	0.0	0.0	0.0
7	8.434	0.119	0.173	1.589e+04	3.1	6540.15	1.3	0.0	0.0	0.0	0.0
8	8.665	0.115	0.173	1350.61	0.3	1030.44	0.2	0.0	0.0	0.0	0.0
9	9.056	0.110	0.173	4743.37	0.9	445.61	8.60e-02	0.0	0.0	0.0	0.0
10	9.281	0.108	0.173	1618.44	0.3	99.50	1.92e-02	0.0	0.0	0.0	0.0
11	9.446	0.106	0.173	574.31	0.1	441.13	8.52e-02	0.0	0.0	0.0	0.0
12	9.560	0.105	0.173	319.81	6.17e-02	130.59	2.52e-02	0.0	0.0	0.0	0.0
13	10.054	0.099	0.173	97.93	1.89e-02	26.93	5.20e-03	0.0	0.0	0.0	0.0
14	10.084	0.099	0.173	8.07	1.56e-03	0.04	7.90e-06	0.0	0.0	0.0	0.0
15	10.089	0.099	0.173	58.46	1.13e-02	37.40	7.22e-03	0.0	0.0	0.0	0.0
16	10.125	0.099	0.173	562.08	0.1	4.79	9.25e-04	0.0	0.0	0.0	0.0
17	10.339	0.097	0.173	106.83	2.06e-02	216.62	4.18e-02	0.0	0.0	0.0	0.0
18	10.382	0.096	0.173	35.29	6.81e-03	1738.11	0.3	0.0	0.0	0.0	0.0
19	10.574	0.095	0.173	140.72	2.72e-02	0.37	7.14e-05	0.0	0.0	0.0	0.0
20	10.620	0.094	0.173	77.21	1.49e-02	0.15	2.83e-05	0.0	0.0	0.0	0.0
21	10.648	0.094	0.173	17.24	3.33e-03	379.35	7.32e-02	0.0	0.0	0.0	0.0
22	10.825	0.092	0.173	1.39	2.69e-04	0.88	1.70e-04	0.0	0.0	0.0	0.0
23	11.107	0.090	0.173	170.38	3.29e-02	609.01	0.1	0.0	0.0	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
24	11.141	0.090	0.173	318.14	6.14e-02	1839.55	0.4	0.0	0.0	0.0	0.0
25	11.196	0.089	0.172	134.30	2.59e-02	841.11	0.2	0.0	0.0	0.0	0.0
26	11.241	0.089	0.172	1.51	2.92e-04	998.16	0.2	0.0	0.0	0.0	0.0
27	11.311	0.088	0.171	53.46	1.03e-02	550.73	0.1	0.0	0.0	0.0	0.0
28	11.357	0.088	0.171	141.12	2.72e-02	848.51	0.2	0.0	0.0	0.0	0.0
29	11.475	0.087	0.170	51.91	1.00e-02	116.49	2.25e-02	0.0	0.0	0.0	0.0
30	11.528	0.087	0.169	60.33	1.16e-02	169.79	3.28e-02	0.0	0.0	0.0	0.0
Risulta				4.893e+05		5.029e+05		0.0			
In percentuale				94.48		97.10		0.0			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: A
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.173 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.351 sec.
			numero di modi considerati: 30
			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
m	kg	m	m	m	m	m	m			
15.18	1902.25	14.84	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.10	29.36	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.09	26.62	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	72.66	25.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	13.13	19.23	7.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	46.36	24.94	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	25.89	5.55	8.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.05	44.33	24.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.04	40.78	23.91	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	62.85	25.69	8.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	45.20	23.38	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.02	46.02	22.88	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	2183.18	15.45	8.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	33.78	12.71	8.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	50.89	25.69	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	47.76	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	53.74	22.33	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	41.85	21.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	33.71	24.95	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.98	60.13	20.77	7.75	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.97	37.74	24.43	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	19.36	19.09	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	47.04	20.75	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	29.68	23.90	6.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	45.25	20.25	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	42.10	19.78	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	38.63	23.38	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	35.81	19.23	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	31.07	22.89	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	76.02	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.41	19.09	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.61	19.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	11.00	18.80	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	13.66	18.72	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	44.88	22.33	6.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	25.25	18.19	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	51.34	24.96	6.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.90	73.95	19.53	7.25	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.90	56.48	24.43	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	55.40	5.18	8.78	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
14.89	108.22	24.02	8.07	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.89	68.16	17.11	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	24.23	19.04	7.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	42.57	23.90	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	33.36	20.75	6.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	50.98	16.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	28.88	5.55	8.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	95.69	21.99	6.57	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.86	43.81	15.99	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	81.15	17.32	7.24	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.85	42.26	22.90	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	45.72	19.09	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	21.49	19.23	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	14.33	19.04	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	2166.91	15.46	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	37.62	19.23	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	57.98	14.87	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	33.82	12.74	9.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	60.43	22.33	6.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	54.76	12.31	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	49.95	14.37	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	41.88	21.71	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	57.61	18.19	6.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.81	60.47	13.76	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	50.50	21.28	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	66.21	18.32	6.70	0.0	0.01	0.0	0.0	0.0	0.0	0.0
14.80	49.12	13.13	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	41.49	12.68	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	40.91	20.76	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	74.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	64.44	17.11	6.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	69.15	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	50.65	20.25	6.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	41.97	16.44	6.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	59.20	11.64	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	45.20	15.99	6.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	39.94	19.79	6.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	48.86	24.98	5.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	82.06	13.30	7.17	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.75	65.62	5.18	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	91.84	18.66	6.23	0.0	0.11	0.0	0.0	0.0	0.0	0.0
14.74	41.81	19.23	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	53.77	14.87	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	54.75	19.04	6.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	44.28	10.28	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	38.73	23.88	5.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	47.90	18.19	6.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	40.12	14.37	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	56.20	9.63	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	46.80	23.38	5.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	55.95	13.76	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	19.29	5.55	9.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	43.28	9.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	36.79	22.91	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	66.54	22.45	5.33	0.0	0.06	0.0	0.0	0.0	0.0	0.0
14.70	39.15	13.15	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	47.76	8.58	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	8.57	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	82.15	23.30	5.10	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.69	41.66	12.68	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	64.98	25.69	9.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	40.65	7.98	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	98.72	20.91	8.04	0.0	0.24	0.0	0.0	0.0	0.0	0.0
14.68	51.42	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	23.38	19.23	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	34.63	21.68	5.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	38.48	7.53	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	2155.67	15.46	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	24.65	23.88	4.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	52.29	11.64	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	108.05	18.65	5.67	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.67	42.90	7.12	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	33.74	12.78	9.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	30.01	23.38	4.86	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
14.66	42.90	16.46	5.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.96	11.10	6.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	47.78	15.99	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.21	20.76	5.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	161.15	14.45	7.70	0.0	0.25	0.0	0.0	0.0	0.0	0.0
14.65	53.25	6.48	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	74.78	13.26	6.39	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.65	85.63	19.12	5.41	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.64	35.70	22.33	4.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	58.99	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	48.70	5.86	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	47.83	9.63	6.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	12.67	5.55	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	54.81	14.87	6.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	29.85	19.80	5.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	23.90	21.68	4.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	31.06	9.03	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	57.39	24.99	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	124.35	11.81	6.45	0.0	0.13	0.0	0.0	0.0	0.0	0.0
14.62	30.81	19.23	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	37.30	8.58	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	44.60	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	23.17	20.76	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	59.43	24.43	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	56.36	13.76	6.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	29.12	8.06	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	28.47	20.25	4.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	33.29	7.53	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	48.91	23.87	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	101.08	8.29	8.50	0.0	0.20	0.0	0.0	0.0	0.0	0.0
14.60	22.45	19.80	4.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	27.69	7.13	6.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	52.84	23.38	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	42.20	12.68	6.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	23.80	19.23	4.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	49.03	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	75.55	12.25	6.06	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.58	48.36	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	51.04	11.64	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	31.38	5.86	7.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	32.99	11.14	6.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	64.86	22.33	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	38.89	10.65	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	31.88	5.18	7.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	146.37	17.62	5.03	0.0	8.90e-03	0.0	0.0	0.0	0.0	0.0
14.56	32.25	10.26	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	55.89	13.99	6.34	0.0	0.25	0.0	0.0	0.0	0.0	0.0
14.55	147.60	15.87	5.26	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.54	31.04	9.02	6.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.54	90.90	18.55	4.75	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.54	36.68	8.58	6.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	29.16	8.06	6.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	50.15	20.76	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	54.89	14.87	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	57.90	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	33.37	7.53	6.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	93.14	17.65	4.74	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.52	27.70	7.14	6.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	68.17	19.09	10.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	26.22	19.23	10.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	50.49	25.01	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	52.36	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	44.85	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	98.59	10.64	5.79	0.0	0.06	0.0	0.0	0.0	0.0	0.0
14.51	2143.44	15.45	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	42.10	5.86	6.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	58.75	24.43	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	51.17	5.18	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	85.24	16.43	4.77	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.50	33.71	12.81	10.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	38.93	19.04	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	41.96	23.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	42.73	12.68	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	49.70	12.31	5.35	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
14.48	115.87	12.02	8.37	0.0	0.26	0.0	0.0	0.0	0.0	0.0
14.48	71.77	18.59	5.40	0.0	0.36	0.0	0.0	0.0	0.0	0.0
14.48	33.03	11.18	5.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	40.40	18.19	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	40.51	10.65	5.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	32.24	10.25	5.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	41.71	22.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	77.47	12.75	5.13	0.0	0.07	0.0	0.0	0.0	0.0	0.0
14.46	31.03	9.00	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	36.32	8.58	5.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	61.15	22.33	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	29.16	8.06	5.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	81.17	13.19	4.95	0.0	0.08	0.0	0.0	0.0	0.0	0.0
14.45	53.19	5.18	10.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	62.57	12.35	5.05	0.0	0.08	0.0	0.0	0.0	0.0	0.0
14.44	42.30	15.99	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	41.44	21.64	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	70.62	11.58	5.11	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.44	37.13	15.51	4.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.43	46.91	21.28	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	47.98	14.87	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	40.54	20.77	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	34.09	18.19	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	37.05	14.39	4.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	52.68	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	49.41	20.25	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	24.33	17.78	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	50.73	13.76	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	39.65	19.82	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	48.87	25.02	2.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	37.87	13.19	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	37.36	17.11	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	36.83	5.85	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	98.90	22.17	3.03	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.39	41.32	12.68	4.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	46.37	12.31	4.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	84.53	14.79	4.20	0.0	0.06	0.0	0.0	0.0	0.0	0.0
14.38	33.06	11.21	4.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	42.13	10.65	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	32.23	10.23	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	47.80	9.63	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.42	16.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	31.02	8.99	5.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.96	8.58	5.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	29.16	8.06	5.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	71.09	16.28	3.90	0.0	0.13	0.0	0.0	0.0	0.0	0.0
14.37	27.70	7.15	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	41.29	15.99	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	47.61	23.38	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	40.74	6.48	5.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	36.90	15.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	35.60	22.81	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	38.11	18.19	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	24.69	5.85	5.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	95.54	23.95	6.77	0.0	0.43	0.0	0.0	0.0	0.0	0.0
14.35	43.75	14.87	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	38.27	5.18	5.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	2152.58	15.49	11.11	0.0	0.39	0.0	0.0	0.0	0.0	0.0
14.33	38.23	14.39	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	32.96	21.62	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	51.49	10.54	9.49	0.0	0.30	0.0	0.0	0.0	0.0	0.0
14.32	35.54	21.28	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.20	17.11	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	26.45	5.55	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.78	13.76	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	30.24	20.77	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	17.50	13.35	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	20.21	13.20	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	67.82	12.31	11.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	52.95	16.50	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	120.45	15.85	7.67	0.0	0.48	0.0	0.0	0.0	0.0	0.0
14.30	67.88	14.13	3.69	0.0	0.10	0.0	0.0	0.0	0.0	0.0
14.30	28.18	8.06	4.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	61.06	7.93	4.68	0.0	0.01	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
14.30	28.20	8.98	4.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	48.32	25.04	1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	131.70	13.03	3.83	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.29	54.92	15.04	3.48	0.0	0.08	0.0	0.0	0.0	0.0	0.0
14.29	77.71	8.42	4.56	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.29	105.87	21.89	6.45	0.0	0.47	0.0	0.0	0.0	0.0	0.0
14.29	26.60	11.25	4.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	37.13	11.64	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	72.22	15.32	3.40	0.0	0.05	0.0	0.0	0.0	0.0	0.0
14.29	42.66	15.49	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	36.83	23.84	1.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	30.41	5.85	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	46.56	23.38	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	29.09	19.23	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	89.42	16.63	3.10	0.0	0.14	0.0	0.0	0.0	0.0	0.0
14.28	51.37	14.87	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	45.24	22.33	2.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	20.85	17.77	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	38.59	14.39	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	30.16	21.61	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	31.55	21.28	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	26.82	20.77	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	45.63	13.76	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	30.45	20.25	2.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	23.48	19.85	2.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	35.33	13.35	3.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	24.54	19.23	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	24.86	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	55.34	17.11	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	41.03	12.68	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	33.10	12.31	3.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	38.33	11.64	3.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	27.97	11.27	3.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	38.74	10.65	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.36	10.21	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	43.18	9.63	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.74	8.97	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	54.37	12.11	3.48	0.0	0.08	0.0	0.0	0.0	0.0	0.0
14.23	28.38	8.06	4.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	32.51	7.53	4.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	27.71	7.16	4.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.06	28.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	162.77	25.36	6.41	0.0	0.25	0.0	0.0	0.0	0.0	0.0
14.22	170.46	25.96	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	164.11	24.42	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	163.47	18.53	6.71	0.0	0.16	0.0	0.0	0.0	0.0	0.0
14.22	133.86	21.17	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	138.19	19.49	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	35.63	18.06	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	102.49	16.77	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	104.53	15.42	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	145.03	13.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	94.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.48	9.91	6.74	0.0	0.16	0.0	0.0	0.0	0.0	0.0
14.22	223.18	15.22	7.75	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.21	90.04	7.57	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	251.85	9.63	7.66	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.21	115.17	3.67	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	155.00	2.18	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	59.04	24.01	7.05	0.0	0.01	0.0	0.0	0.0	0.0	0.0
14.21	26.17	5.18	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	13.29	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	17.99	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	53.99	29.13	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	123.00	12.88	8.51	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.20	65.43	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	53.99	1.65	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	47.23	29.13	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	46.44	10.16	6.90	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.20	28.85	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	35.15	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	101.85	14.54	9.71	0.0	2.55e-03	0.0	0.0	0.0	0.0	0.0
14.19	29.23	19.09	11.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	40.48	29.13	10.47	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
14.19	75.62	25.69	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	18.39	19.23	11.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	135.87	16.04	5.57	0.0	0.47	0.0	0.0	0.0	0.0	0.0
14.18	59.00	24.43	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	41.64	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	76.49	15.66	8.62	0.0	0.23	0.0	0.0	0.0	0.0	0.0
14.18	39.39	23.83	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	33.45	1.65	11.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	52.17	23.38	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	58.75	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	21.11	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	37.60	22.73	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	51.14	22.33	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	2207.36	15.62	11.93	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.17	35.78	21.59	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	37.83	21.28	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	66.47	23.20	3.19	0.0	0.16	0.0	0.0	0.0	0.0	0.0
14.17	35.95	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	39.24	20.25	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.03	13.34	6.41	0.0	0.51	0.0	0.0	0.0	0.0	0.0
14.16	69.91	25.69	11.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	60.93	19.15	3.17	0.0	0.16	0.0	0.0	0.0	0.0	0.0
14.16	56.55	19.04	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.40	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	127.96	18.85	3.85	0.0	0.17	0.0	0.0	0.0	0.0	0.0
14.16	29.64	17.77	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	43.35	24.30	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	132.48	14.85	6.40	0.0	0.50	0.0	0.0	0.0	0.0	0.0
14.15	39.86	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.85	16.50	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.75	16.42	4.05	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.15	84.66	16.65	4.11	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.15	81.23	13.22	2.71	0.0	0.06	0.0	0.0	0.0	0.0	0.0
14.15	82.73	13.18	4.05	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.15	21.86	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	56.48	13.05	3.81	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.15	69.24	12.88	4.12	0.0	0.02	0.0	0.0	0.0	0.0	0.0
14.15	42.16	15.46	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	28.78	8.96	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	74.54	5.18	4.59	0.0	0.07	0.0	0.0	0.0	0.0	0.0
14.14	46.75	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	92.74	12.43	2.79	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.14	39.37	8.80	3.74	0.0	0.11	0.0	0.0	0.0	0.0	0.0
14.14	104.63	13.23	6.11	0.0	0.48	0.0	0.0	0.0	0.0	0.0
14.14	60.49	13.50	3.33	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.13	44.10	13.76	2.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	27.93	11.31	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	70.71	12.45	2.71	0.0	0.01	0.0	0.0	0.0	0.0	0.0
14.13	81.41	14.62	2.98	0.0	0.04	0.0	0.0	0.0	0.0	0.0
14.13	57.65	10.32	3.37	0.0	0.12	0.0	0.0	0.0	0.0	0.0
14.13	41.59	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.12	224.50	14.31	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	41.57	12.74	3.51	0.0	0.09	0.0	0.0	0.0	0.0	0.0
14.11	36.06	25.69	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	61.60	14.94	3.39	0.0	9.09e-03	0.0	0.0	0.0	0.0	0.0
14.11	16.96	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	47.73	12.31	12.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	1952.37	15.81	1.76	0.0	0.17	0.0	0.0	0.0	0.0	0.0
14.07	26.42	19.09	12.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.06	12.39	19.23	12.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	17.39	22.33	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	13.16	22.65	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	3209.66	15.39	12.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	25.36	23.51	-0.03	0.0	0.03	0.0	0.0	0.0	0.0	0.0
14.01	16.28	25.08	-0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.00	545.87	14.34	1.46	0.0	0.16	0.0	0.0	0.0	0.0	0.0
13.82	2601.25	15.40	13.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.63	1540.70	15.40	14.34	0.0	0.0	15.43	14.34	0.095	0.025	0.0
13.51	4869.50	16.00	7.39	0.0	0.63	19.47	9.12	0.603	0.226	0.327
13.41	5.341e+04	15.87	7.62	0.0	0.63	14.77	7.43	0.737	0.151	0.030
13.31	4324.19	16.20	7.27	0.0	0.63	14.78	7.34	0.809	0.175	0.011
12.56	9219.00	16.13	7.38	0.0	0.63	14.66	7.34	0.748	0.183	0.006
11.78	9339.06	16.13	7.36	0.0	0.63	14.78	7.34	0.754	0.168	0.004
11.20	283.34	14.71	9.83	0.0	0.10	14.72	9.09	1.170	0.012	0.520

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
11.00	9007.32	16.19	7.27	0.0	0.63	14.66	7.38	0.768	0.190	0.015
10.62	262.88	14.71	9.83	0.0	0.10	14.72	9.09	1.170	0.012	0.520
10.23	4497.59	16.20	7.27	0.0	0.63	14.78	7.33	0.756	0.174	0.010
10.13	1.461e+05	15.79	8.49	0.0	0.63	14.77	7.43	0.737	0.140	0.165
10.03	4324.19	16.20	7.27	0.0	0.63	14.78	7.34	0.809	0.175	0.011
9.28	9219.00	16.13	7.38	0.0	0.63	14.66	7.34	0.748	0.183	0.006
8.50	9326.91	16.14	7.36	0.0	0.63	14.78	7.34	0.754	0.169	0.003
7.92	283.34	14.71	9.83	0.0	0.10	14.72	9.09	1.170	0.012	0.520
7.72	8995.18	16.19	7.27	0.0	0.63	14.66	7.38	0.768	0.191	0.016
7.34	262.88	14.71	9.83	0.0	0.10	14.72	9.09	1.170	0.012	0.520
6.94	4497.59	16.20	7.27	0.0	0.63	14.78	7.33	0.756	0.174	0.010
6.84	1.451e+05	15.78	8.50	0.0	0.63	14.77	7.41	0.742	0.134	0.168
6.74	5320.79	16.20	7.26	0.0	0.63	14.78	7.34	0.809	0.176	0.011
5.96	1.105e+04	16.15	7.36	0.0	0.63	14.67	7.34	0.748	0.185	0.003
5.19	1.103e+04	16.14	7.35	0.0	0.63	14.78	7.34	0.755	0.169	0.002
4.41	9316.78	16.13	7.37	0.0	0.63	14.66	7.38	0.768	0.184	9.4582e-04
3.88	8210.44	16.20	7.27	0.0	0.63	14.78	7.33	0.756	0.174	0.010
3.63	4050.96	19.09	10.18	0.0	0.22	18.33	9.64	4.491	0.044	0.092
Risulta	5.179e+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	kg		kg		kg			
1	2.575	0.388	0.120	7146.93	1.4	4.317e+05	83.4	0.0	0.0	0.0	0.0
2	2.847	0.351	0.133	3.511e+05	67.8	8543.21	1.6	0.0	0.0	0.0	0.0
3	3.635	0.275	0.170	6.805e+04	13.1	6.27	1.21e-03	0.0	0.0	0.0	0.0
4	7.714	0.130	0.173	3.957e+04	7.6	8351.43	1.6	0.0	0.0	0.0	0.0
5	7.949	0.126	0.173	5787.69	1.1	3.674e+04	7.1	0.0	0.0	0.0	0.0
6	8.220	0.122	0.173	735.54	0.1	2593.33	0.5	0.0	0.0	0.0	0.0
7	8.402	0.119	0.173	683.17	0.1	4370.57	0.8	0.0	0.0	0.0	0.0
8	8.714	0.115	0.173	299.70	5.78e-02	1073.91	0.2	0.0	0.0	0.0	0.0
9	8.814	0.113	0.173	0.50	9.67e-05	3.17	6.11e-04	0.0	0.0	0.0	0.0
10	8.858	0.113	0.173	434.08	8.38e-02	1.50	2.89e-04	0.0	0.0	0.0	0.0
11	9.108	0.110	0.173	14.49	2.80e-03	0.09	1.67e-05	0.0	0.0	0.0	0.0
12	9.227	0.108	0.173	350.79	6.77e-02	117.25	2.26e-02	0.0	0.0	0.0	0.0
13	9.260	0.108	0.173	1308.11	0.3	256.64	4.96e-02	0.0	0.0	0.0	0.0
14	9.388	0.107	0.173	1074.35	0.2	122.32	2.36e-02	0.0	0.0	0.0	0.0
15	9.503	0.105	0.173	1184.83	0.2	557.04	0.1	0.0	0.0	0.0	0.0
16	9.749	0.103	0.173	7419.93	1.4	125.38	2.42e-02	0.0	0.0	0.0	0.0
17	10.087	0.099	0.173	85.74	1.66e-02	0.05	9.95e-06	0.0	0.0	0.0	0.0
18	10.203	0.098	0.173	1451.96	0.3	1498.65	0.3	0.0	0.0	0.0	0.0
19	10.337	0.097	0.173	60.41	1.17e-02	23.60	4.56e-03	0.0	0.0	0.0	0.0
20	10.634	0.094	0.173	2682.48	0.5	156.37	3.02e-02	0.0	0.0	0.0	0.0
21	10.644	0.094	0.173	895.74	0.2	125.33	2.42e-02	0.0	0.0	0.0	0.0
22	10.666	0.094	0.173	524.53	0.1	477.68	9.22e-02	0.0	0.0	0.0	0.0
23	10.680	0.094	0.173	2531.96	0.5	202.25	3.91e-02	0.0	0.0	0.0	0.0
24	10.711	0.093	0.173	167.41	3.23e-02	4.30	8.31e-04	0.0	0.0	0.0	0.0
25	10.715	0.093	0.173	26.93	5.20e-03	0.33	6.43e-05	0.0	0.0	0.0	0.0
26	10.842	0.092	0.173	1011.10	0.2	222.15	4.29e-02	0.0	0.0	0.0	0.0
27	10.959	0.091	0.173	1775.76	0.3	81.43	1.57e-02	0.0	0.0	0.0	0.0
28	11.106	0.090	0.173	5.39	1.04e-03	69.29	1.34e-02	0.0	0.0	0.0	0.0
29	11.127	0.090	0.173	44.49	8.59e-03	17.91	3.46e-03	0.0	0.0	0.0	0.0
30	11.227	0.089	0.172	223.42	4.31e-02	1352.51	0.3	0.0	0.0	0.0	0.0
Risulta				4.967e+05		4.988e+05		0.0			
In percentuale				95.87		96.31		0.0			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: A
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.173 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.392 sec.

CDC	Tipo	Sigla Id	Note
			numero di modi considerati: 30
			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
m	kg	m	m	m	m	m	m			
15.18	1902.25	14.84	7.53	1.37	0.0	0.0	0.0	0.0	0.0	0.0
15.10	29.36	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.09	26.62	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	72.66	25.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	13.13	19.23	7.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	46.36	24.94	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	25.89	5.55	8.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.05	44.33	24.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.04	40.78	23.91	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	62.85	25.69	8.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	45.20	23.38	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.02	46.02	22.88	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	2183.18	15.45	8.27	1.37	0.0	0.0	0.0	0.0	0.0	0.0
15.01	33.78	12.71	8.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	50.89	25.69	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	47.76	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	53.74	22.33	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	41.85	21.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	33.71	24.95	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.98	60.13	20.77	7.75	0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.97	37.74	24.43	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	19.36	19.09	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	47.04	20.75	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	29.68	23.90	6.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	45.25	20.25	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	42.10	19.78	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	38.63	23.38	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	35.81	19.23	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	31.07	22.89	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	76.02	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.41	19.09	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.61	19.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	11.00	18.80	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	13.66	18.72	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	44.88	22.33	6.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	25.25	18.19	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	51.34	24.96	6.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.90	73.95	19.53	7.25	0.20	0.0	0.0	0.0	0.0	0.0	0.0
14.90	56.48	24.43	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	55.40	5.18	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	108.22	24.02	8.07	0.22	0.0	0.0	0.0	0.0	0.0	0.0
14.89	68.16	17.11	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	24.23	19.04	7.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	42.57	23.90	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	33.36	20.75	6.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	50.98	16.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	28.88	5.55	8.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	95.69	21.99	6.57	0.16	0.0	0.0	0.0	0.0	0.0	0.0
14.86	43.81	15.99	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	81.15	17.32	7.24	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.85	42.26	22.90	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	45.72	19.09	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	21.49	19.23	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	14.33	19.04	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	2166.91	15.46	9.00	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.84	37.62	19.23	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	57.98	14.87	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	33.82	12.74	9.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	60.43	22.33	6.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	54.76	12.31	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	49.95	14.37	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	41.88	21.71	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	57.61	18.19	6.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.81	60.47	13.76	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	50.50	21.28	6.23	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
14.80	66.21	18.32	6.70	0.06	0.0	0.0	0.0	0.0	0.0	0.0
14.80	49.12	13.13	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	41.49	12.68	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	40.91	20.76	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	74.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	64.44	17.11	6.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	69.15	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	50.65	20.25	6.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	41.97	16.44	6.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	59.20	11.64	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	45.20	15.99	6.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	39.94	19.79	6.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	48.86	24.98	5.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	82.06	13.30	7.17	0.22	0.0	0.0	0.0	0.0	0.0	0.0
14.75	65.62	5.18	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	91.84	18.66	6.23	0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.74	41.81	19.23	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	53.77	14.87	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	54.75	19.04	6.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	44.28	10.28	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	38.73	23.88	5.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	47.90	18.19	6.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	40.12	14.37	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	56.20	9.63	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	46.80	23.38	5.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	55.95	13.76	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	19.29	5.55	9.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	43.28	9.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	36.79	22.91	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	66.54	22.45	5.33	0.39	0.0	0.0	0.0	0.0	0.0	0.0
14.70	39.15	13.15	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	47.76	8.58	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	8.57	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	82.15	23.30	5.10	0.13	0.0	0.0	0.0	0.0	0.0	0.0
14.69	41.66	12.68	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	64.98	25.69	9.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	40.65	7.98	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	98.72	20.91	8.04	0.27	0.0	0.0	0.0	0.0	0.0	0.0
14.68	51.42	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	23.38	19.23	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	34.63	21.68	5.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	38.48	7.53	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	2155.67	15.46	9.74	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.67	24.65	23.88	4.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	52.29	11.64	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	108.05	18.65	5.67	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.67	42.90	7.12	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	33.74	12.78	9.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	30.01	23.38	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	42.90	16.46	5.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.96	11.10	6.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	47.78	15.99	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.21	20.76	5.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	161.15	14.45	7.70	0.61	0.0	0.0	0.0	0.0	0.0	0.0
14.65	53.25	6.48	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	74.78	13.26	6.39	0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.65	85.63	19.12	5.41	0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.64	35.70	22.33	4.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	58.99	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	48.70	5.86	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	47.83	9.63	6.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	12.67	5.55	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	54.81	14.87	6.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	29.85	19.80	5.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	23.90	21.68	4.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	31.06	9.03	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	57.39	24.99	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	124.35	11.81	6.45	0.81	0.0	0.0	0.0	0.0	0.0	0.0
14.62	30.81	19.23	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	37.30	8.58	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	44.60	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	23.17	20.76	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	59.43	24.43	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	56.36	13.76	6.04	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
14.61	29.12	8.06	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	28.47	20.25	4.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	33.29	7.53	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	48.91	23.87	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	101.08	8.29	8.50	0.40	0.0	0.0	0.0	0.0	0.0	0.0
14.60	22.45	19.80	4.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	27.69	7.13	6.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	52.84	23.38	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	42.20	12.68	6.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	23.80	19.23	4.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	49.03	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	75.55	12.25	6.06	0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.58	48.36	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	51.04	11.64	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	31.38	5.86	7.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	32.99	11.14	6.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	64.86	22.33	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	38.89	10.65	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	31.88	5.18	7.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	146.37	17.62	5.03	0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.56	32.25	10.26	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	55.89	13.99	6.34	0.55	0.0	0.0	0.0	0.0	0.0	0.0
14.55	147.60	15.87	5.26	0.60	0.0	0.0	0.0	0.0	0.0	0.0
14.54	31.04	9.02	6.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.54	90.90	18.55	4.75	0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.54	36.68	8.58	6.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	29.16	8.06	6.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	50.15	20.76	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	54.89	14.87	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	57.90	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	33.37	7.53	6.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	93.14	17.65	4.74	0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.52	27.70	7.14	6.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	68.17	19.09	10.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	26.22	19.23	10.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	50.49	25.01	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	52.36	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	44.85	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	98.59	10.64	5.79	0.36	0.0	0.0	0.0	0.0	0.0	0.0
14.51	2143.44	15.45	10.47	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.50	42.10	5.86	6.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	58.75	24.43	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	51.17	5.18	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	85.24	16.43	4.77	0.30	0.0	0.0	0.0	0.0	0.0	0.0
14.50	33.71	12.81	10.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	38.93	19.04	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	41.96	23.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	42.73	12.68	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	49.70	12.31	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	115.87	12.02	8.37	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.48	71.77	18.59	5.40	0.89	0.0	0.0	0.0	0.0	0.0	0.0
14.48	33.03	11.18	5.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	40.40	18.19	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	40.51	10.65	5.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	32.24	10.25	5.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	41.71	22.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	77.47	12.75	5.13	0.41	0.0	0.0	0.0	0.0	0.0	0.0
14.46	31.03	9.00	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	36.32	8.58	5.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	61.15	22.33	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	29.16	8.06	5.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	81.17	13.19	4.95	0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.45	53.19	5.18	10.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	62.57	12.35	5.05	0.47	0.0	0.0	0.0	0.0	0.0	0.0
14.44	42.30	15.99	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	41.44	21.64	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	70.62	11.58	5.11	0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.44	37.13	15.51	4.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.43	46.91	21.28	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	47.98	14.87	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	40.54	20.77	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	34.09	18.19	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	37.05	14.39	4.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	52.68	25.69	2.64	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
14.41	49.41	20.25	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	24.33	17.78	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	50.73	13.76	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	39.65	19.82	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	48.87	25.02	2.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	37.87	13.19	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	37.36	17.11	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	36.83	5.85	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	98.90	22.17	3.03	0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.39	41.32	12.68	4.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	46.37	12.31	4.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	84.53	14.79	4.20	0.37	0.0	0.0	0.0	0.0	0.0	0.0
14.38	33.06	11.21	4.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	42.13	10.65	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	32.23	10.23	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	47.80	9.63	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.42	16.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	31.02	8.99	5.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.96	8.58	5.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	29.16	8.06	5.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	71.09	16.28	3.90	0.82	0.0	0.0	0.0	0.0	0.0	0.0
14.37	27.70	7.15	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	41.29	15.99	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	47.61	23.38	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	40.74	6.48	5.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	36.90	15.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	35.60	22.81	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	38.11	18.19	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	24.69	5.85	5.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	95.54	23.95	6.77	0.17	0.0	0.0	0.0	0.0	0.0	0.0
14.35	43.75	14.87	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	38.27	5.18	5.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	2152.58	15.49	11.11	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.33	38.23	14.39	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	32.96	21.62	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	51.49	10.54	9.49	0.38	0.0	0.0	0.0	0.0	0.0	0.0
14.32	35.54	21.28	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.20	17.11	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	26.45	5.55	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.78	13.76	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	30.24	20.77	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	17.50	13.35	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	20.21	13.20	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	67.82	12.31	11.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	52.95	16.50	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	120.45	15.85	7.67	1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.30	67.88	14.13	3.69	0.64	0.0	0.0	0.0	0.0	0.0	0.0
14.30	28.18	8.06	4.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	61.06	7.93	4.68	0.07	0.0	0.0	0.0	0.0	0.0	0.0
14.30	28.20	8.98	4.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	48.32	25.04	1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	131.70	13.03	3.83	0.32	0.0	0.0	0.0	0.0	0.0	0.0
14.29	54.92	15.04	3.48	0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.29	77.71	8.42	4.56	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.29	105.87	21.89	6.45	0.27	0.0	0.0	0.0	0.0	0.0	0.0
14.29	26.60	11.25	4.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	37.13	11.64	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	72.22	15.32	3.40	0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.29	42.66	15.49	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	36.83	23.84	1.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	30.41	5.85	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	46.56	23.38	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	29.09	19.23	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	89.42	16.63	3.10	0.88	0.0	0.0	0.0	0.0	0.0	0.0
14.28	51.37	14.87	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	45.24	22.33	2.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	20.85	17.77	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	38.59	14.39	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	30.16	21.61	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	31.55	21.28	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	26.82	20.77	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	45.63	13.76	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	30.45	20.25	2.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	23.48	19.85	2.38	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
14.25	35.33	13.35	3.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	24.54	19.23	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	24.86	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	55.34	17.11	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	41.03	12.68	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	33.10	12.31	3.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	38.33	11.64	3.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	27.97	11.27	3.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	38.74	10.65	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.36	10.21	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	43.18	9.63	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.74	8.97	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	54.37	12.11	3.48	0.46	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.38	8.06	4.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	32.51	7.53	4.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	27.71	7.16	4.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.06	28.74	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	162.77	25.36	6.41	0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.22	170.46	25.96	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	164.11	24.42	7.53	0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.22	163.47	18.53	6.71	0.83	0.0	0.0	0.0	0.0	0.0	0.0
14.22	133.86	21.17	7.53	0.04	0.0	0.0	0.0	0.0	0.0	0.0
14.22	138.19	19.49	7.53	0.04	0.0	0.0	0.0	0.0	0.0	0.0
14.22	35.63	18.06	7.53	0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.22	102.49	16.77	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	104.53	15.42	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	145.03	13.69	7.53	0.07	0.0	0.0	0.0	0.0	0.0	0.0
14.22	94.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.48	9.91	6.74	0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.22	223.18	15.22	7.75	1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	90.04	7.57	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	251.85	9.63	7.66	1.06	0.0	0.0	0.0	0.0	0.0	0.0
14.21	115.17	3.67	7.53	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	155.00	2.18	7.53	0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.21	59.04	24.01	7.05	0.33	0.0	0.0	0.0	0.0	0.0	0.0
14.21	26.17	5.18	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	13.29	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	17.99	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	53.99	29.13	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	123.00	12.88	8.51	1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.20	65.43	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	53.99	1.65	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	47.23	29.13	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	46.44	10.16	6.90	0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.20	28.85	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	35.15	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	101.85	14.54	9.71	1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.19	29.23	19.09	11.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	40.48	29.13	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	75.62	25.69	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	18.39	19.23	11.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	135.87	16.04	5.57	1.17	0.0	0.0	0.0	0.0	0.0	0.0
14.18	59.00	24.43	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	41.64	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	76.49	15.66	8.62	1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.18	39.39	23.83	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	33.45	1.65	11.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	52.17	23.38	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	58.75	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	21.11	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	37.60	22.73	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	51.14	22.33	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	2207.36	15.62	11.93	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.17	35.78	21.59	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	37.83	21.28	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	66.47	23.20	3.19	0.25	0.0	0.0	0.0	0.0	0.0	0.0
14.17	35.95	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	39.24	20.25	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.03	13.34	6.41	0.72	0.0	0.0	0.0	0.0	0.0	0.0
14.16	69.91	25.69	11.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	60.93	19.15	3.17	9.70e-03	0.0	0.0	0.0	0.0	0.0	0.0
14.16	56.55	19.04	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.40	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	127.96	18.85	3.85	0.63	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
14.16	29.64	17.77	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	43.35	24.30	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	132.48	14.85	6.40	0.92	0.0	0.0	0.0	0.0	0.0	0.0
14.15	39.86	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.85	16.50	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.75	16.42	4.05	0.73	0.0	0.0	0.0	0.0	0.0	0.0
14.15	84.66	16.65	4.11	0.70	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.23	13.22	2.71	0.40	0.0	0.0	0.0	0.0	0.0	0.0
14.15	82.73	13.18	4.05	0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.15	21.86	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	56.48	13.05	3.81	0.54	0.0	0.0	0.0	0.0	0.0	0.0
14.15	69.24	12.88	4.12	0.66	0.0	0.0	0.0	0.0	0.0	0.0
14.15	42.16	15.46	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	28.78	8.96	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	74.54	5.18	4.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	46.75	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	92.74	12.43	2.79	0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.14	39.37	8.80	3.74	0.25	0.0	0.0	0.0	0.0	0.0	0.0
14.14	104.63	13.23	6.11	0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.14	60.49	13.50	3.33	0.42	0.0	0.0	0.0	0.0	0.0	0.0
14.13	44.10	13.76	2.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	27.93	11.31	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	70.71	12.45	2.71	0.09	0.0	0.0	0.0	0.0	0.0	0.0
14.13	81.41	14.62	2.98	0.34	0.0	0.0	0.0	0.0	0.0	0.0
14.13	57.65	10.32	3.37	0.38	0.0	0.0	0.0	0.0	0.0	0.0
14.13	41.59	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.12	224.50	14.31	3.89	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.11	41.57	12.74	3.51	0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.11	36.06	25.69	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	61.60	14.94	3.39	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.11	16.96	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	47.73	12.31	12.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	1952.37	15.81	1.76	1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.07	26.42	19.09	12.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.06	12.39	19.23	12.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	17.39	22.33	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	13.16	22.65	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	3209.66	15.39	12.68	1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.01	25.36	23.51	-0.03	0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.01	16.28	25.08	-0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.00	545.87	14.34	1.46	0.96	0.0	0.0	0.0	0.0	0.0	0.0
13.82	2601.25	15.40	13.51	1.37	0.0	0.0	0.0	0.0	0.0	0.0
13.63	1540.70	15.40	14.34	1.37	0.0	15.43	14.34	0.095	0.025	0.0
13.51	4869.50	16.00	7.39	1.37	0.0	19.47	9.12	0.603	0.226	0.327
13.41	5.341e+04	15.87	7.62	1.37	0.0	14.77	7.43	0.737	0.151	0.030
13.31	4324.19	16.20	7.27	1.37	0.0	14.78	7.34	0.809	0.175	0.011
12.56	9219.00	16.13	7.38	1.37	0.0	14.66	7.34	0.748	0.183	0.006
11.78	9339.06	16.13	7.36	1.37	0.0	14.78	7.34	0.754	0.168	0.004
11.20	283.34	14.71	9.83	0.09	0.0	14.72	9.09	1.170	0.012	0.520
11.00	9007.32	16.19	7.27	1.37	0.0	14.66	7.38	0.768	0.190	0.015
10.62	262.88	14.71	9.83	0.09	0.0	14.72	9.09	1.170	0.012	0.520
10.23	4497.59	16.20	7.27	1.37	0.0	14.78	7.33	0.756	0.174	0.010
10.13	1.461e+05	15.79	8.49	1.37	0.0	14.77	7.43	0.737	0.140	0.165
10.03	4324.19	16.20	7.27	1.37	0.0	14.78	7.34	0.809	0.175	0.011
9.28	9219.00	16.13	7.38	1.37	0.0	14.66	7.34	0.748	0.183	0.006
8.50	9326.91	16.14	7.36	1.37	0.0	14.78	7.34	0.754	0.169	0.003
7.92	283.34	14.71	9.83	0.09	0.0	14.72	9.09	1.170	0.012	0.520
7.72	8995.18	16.19	7.27	1.37	0.0	14.66	7.38	0.768	0.191	0.016
7.34	262.88	14.71	9.83	0.09	0.0	14.72	9.09	1.170	0.012	0.520
6.94	4497.59	16.20	7.27	1.37	0.0	14.78	7.33	0.756	0.174	0.010
6.84	1.451e+05	15.78	8.50	1.37	0.0	14.77	7.41	0.742	0.134	0.168
6.74	5320.79	16.20	7.26	1.37	0.0	14.78	7.34	0.809	0.176	0.011
5.96	1.105e+04	16.15	7.36	1.37	0.0	14.67	7.34	0.748	0.185	0.003
5.19	1.103e+04	16.14	7.35	1.37	0.0	14.78	7.34	0.755	0.169	0.002
4.41	9316.78	16.13	7.37	1.37	0.0	14.66	7.38	0.768	0.184	9.4582e-04
3.88	8210.44	16.20	7.27	1.37	0.0	14.78	7.33	0.756	0.174	0.010
3.63	4050.96	19.09	10.18	0.0	0.0	18.33	9.64	4.491	0.044	0.092
Risulta	5.179e+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	kg		kg		kg			
1	2.552	0.392	0.119	16.24	3.14e-03	4.306e+05	83.1	0.0	0.0	0.0	0.0
2	2.912	0.343	0.136	3.851e+05	74.4	1235.76	0.2	0.0	0.0	0.0	0.0
3	3.642	0.275	0.170	4.099e+04	7.9	8594.71	1.7	0.0	0.0	0.0	0.0
4	7.621	0.131	0.173	588.14	0.1	2.405e+04	4.6	0.0	0.0	0.0	0.0
5	7.877	0.127	0.173	1521.83	0.3	1.948e+04	3.8	0.0	0.0	0.0	0.0
6	8.080	0.124	0.173	4.862e+04	9.4	3924.08	0.8	0.0	0.0	0.0	0.0
7	8.430	0.119	0.173	246.38	4.76e-02	946.61	0.2	0.0	0.0	0.0	0.0
8	8.721	0.115	0.173	50.48	9.75e-03	1126.60	0.2	0.0	0.0	0.0	0.0
9	8.944	0.112	0.173	147.31	2.84e-02	980.25	0.2	0.0	0.0	0.0	0.0
10	9.335	0.107	0.173	1390.29	0.3	128.07	2.47e-02	0.0	0.0	0.0	0.0
11	9.389	0.107	0.173	5.76	1.11e-03	2.03e-04	0.0	0.0	0.0	0.0	0.0
12	9.433	0.106	0.173	587.67	0.1	27.45	5.30e-03	0.0	0.0	0.0	0.0
13	9.495	0.105	0.173	91.17	1.76e-02	346.36	6.69e-02	0.0	0.0	0.0	0.0
14	9.675	0.103	0.173	365.68	7.06e-02	292.15	5.64e-02	0.0	0.0	0.0	0.0
15	9.733	0.103	0.173	6875.86	1.3	1524.73	0.3	0.0	0.0	0.0	0.0
16	9.872	0.101	0.173	383.55	7.41e-02	7.03	1.36e-03	0.0	0.0	0.0	0.0
17	10.044	0.100	0.173	18.87	3.64e-03	876.66	0.2	0.0	0.0	0.0	0.0
18	10.163	0.098	0.173	460.48	8.89e-02	260.94	5.04e-02	0.0	0.0	0.0	0.0
19	10.553	0.095	0.173	10.60	2.05e-03	2633.89	0.5	0.0	0.0	0.0	0.0
20	10.632	0.094	0.173	51.28	9.90e-03	208.41	4.02e-02	0.0	0.0	0.0	0.0
21	10.653	0.094	0.173	5.45	1.05e-03	318.33	6.15e-02	0.0	0.0	0.0	0.0
22	10.716	0.093	0.173	0.21	3.98e-05	966.75	0.2	0.0	0.0	0.0	0.0
23	10.814	0.092	0.173	5.90	1.14e-03	359.82	6.95e-02	0.0	0.0	0.0	0.0
24	10.903	0.092	0.173	278.83	5.38e-02	343.71	6.64e-02	0.0	0.0	0.0	0.0
25	10.925	0.092	0.173	0.74	1.44e-04	341.49	6.59e-02	0.0	0.0	0.0	0.0
26	10.927	0.092	0.173	16.32	3.15e-03	63.57	1.23e-02	0.0	0.0	0.0	0.0
27	10.938	0.091	0.173	19.98	3.86e-03	0.19	3.69e-05	0.0	0.0	0.0	0.0
28	11.080	0.090	0.173	670.95	0.1	1945.79	0.4	0.0	0.0	0.0	0.0
29	11.130	0.090	0.173	20.26	3.91e-03	4.50	8.68e-04	0.0	0.0	0.0	0.0
30	11.182	0.089	0.172	560.68	0.1	24.98	4.82e-03	0.0	0.0	0.0	0.0
Risulta				4.891e+05		5.016e+05		0.0			
In percentuale				94.44		96.84		0.0			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: A
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.173 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.396 sec.
			numero di modi considerati: 30
			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
m	kg	m	m	m	m	m	m			
15.18	1902.25	14.84	7.53	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
15.10	29.36	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.09	26.62	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	72.66	25.69	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.08	13.13	19.23	7.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	46.36	24.94	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.06	25.89	5.55	8.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.05	44.33	24.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.04	40.78	23.91	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	62.85	25.69	8.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.03	45.20	23.38	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.02	46.02	22.88	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.01	2183.18	15.45	8.27	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
15.01	33.78	12.71	8.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	50.89	25.69	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.00	47.76	12.31	8.29	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
15.00	53.74	22.33	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	41.85	21.74	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.99	33.71	24.95	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.98	60.13	20.77	7.75	-0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.97	37.74	24.43	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	19.36	19.09	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.97	47.04	20.75	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	29.68	23.90	6.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.96	45.25	20.25	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	42.10	19.78	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.95	38.63	23.38	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	35.81	19.23	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	31.07	22.89	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	76.02	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.41	19.09	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.93	15.61	19.04	7.53	0.0	15.61	0.0	0.0	0.0	0.0	0.0
14.93	11.00	18.80	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	13.66	18.72	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.92	44.88	22.33	6.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	25.25	18.19	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.91	51.34	24.96	6.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.90	73.95	19.53	7.25	-0.20	0.0	0.0	0.0	0.0	0.0	0.0
14.90	56.48	24.43	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	55.40	5.18	8.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	108.22	24.02	8.07	-0.22	0.0	0.0	0.0	0.0	0.0	0.0
14.89	68.16	17.11	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.89	24.23	19.04	7.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	42.57	23.90	6.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.88	33.36	20.75	6.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	50.98	16.43	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	28.88	5.55	8.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.87	95.69	21.99	6.57	-0.16	0.0	0.0	0.0	0.0	0.0	0.0
14.86	43.81	15.99	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	81.15	17.32	7.24	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.85	42.26	22.90	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	45.72	19.09	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.85	21.49	19.23	8.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	14.33	19.04	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	2166.91	15.46	9.00	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.84	37.62	19.23	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	57.98	14.87	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.84	33.82	12.74	9.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	60.43	22.33	6.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	54.76	12.31	9.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.83	49.95	14.37	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	41.88	21.71	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.82	57.61	18.19	6.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.81	60.47	13.76	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	50.50	21.28	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.80	66.21	18.32	6.70	-0.06	0.0	0.0	0.0	0.0	0.0	0.0
14.80	49.12	13.13	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	41.49	12.68	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.79	40.91	20.76	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	74.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	64.44	17.11	6.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.78	69.15	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	50.65	20.25	6.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	41.97	16.44	6.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	59.20	11.64	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.77	45.20	15.99	6.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	39.94	19.79	6.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	48.86	24.98	5.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	82.06	13.30	7.17	-0.22	0.0	0.0	0.0	0.0	0.0	0.0
14.75	65.62	5.18	9.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.75	91.84	18.66	6.23	-0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.74	41.81	19.23	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	53.77	14.87	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	54.75	19.04	6.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.74	44.28	10.28	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	38.73	23.88	5.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	47.90	18.19	6.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.73	40.12	14.37	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	56.20	9.63	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.72	46.80	23.38	5.27	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
14.71	55.95	13.76	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	19.29	5.55	9.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	43.28	9.04	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	36.79	22.91	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.71	66.54	22.45	5.33	-0.39	0.0	0.0	0.0	0.0	0.0	0.0
14.70	39.15	13.15	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	47.76	8.58	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	8.57	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.70	82.15	23.30	5.10	-0.13	0.0	0.0	0.0	0.0	0.0	0.0
14.69	41.66	12.68	6.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	64.98	25.69	9.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.69	40.65	7.98	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	98.72	20.91	8.04	-0.27	0.0	0.0	0.0	0.0	0.0	0.0
14.68	51.42	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	23.38	19.23	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	34.63	21.68	5.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	38.48	7.53	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.68	2155.67	15.46	9.74	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.67	24.65	23.88	4.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	52.29	11.64	6.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	108.05	18.65	5.67	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.67	42.90	7.12	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.67	33.74	12.78	9.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	30.01	23.38	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	42.90	16.46	5.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.96	11.10	6.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	47.78	15.99	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.66	32.21	20.76	5.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	161.15	14.45	7.70	-0.61	0.0	0.0	0.0	0.0	0.0	0.0
14.65	53.25	6.48	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65	74.78	13.26	6.39	-0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.65	85.63	19.12	5.41	-0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.64	35.70	22.33	4.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	58.99	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	48.70	5.86	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	47.83	9.63	6.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	12.67	5.55	9.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.64	54.81	14.87	6.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	29.85	19.80	5.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	23.90	21.68	4.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	31.06	9.03	6.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.63	57.39	24.99	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	124.35	11.81	6.45	-0.81	0.0	0.0	0.0	0.0	0.0	0.0
14.62	30.81	19.23	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	37.30	8.58	6.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.62	44.60	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	23.17	20.76	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	59.43	24.43	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	56.36	13.76	6.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.61	29.12	8.06	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	28.47	20.25	4.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	33.29	7.53	6.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	48.91	23.87	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.60	101.08	8.29	8.50	-0.40	0.0	0.0	0.0	0.0	0.0	0.0
14.60	22.45	19.80	4.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	27.69	7.13	6.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	52.84	23.38	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	42.20	12.68	6.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.59	23.80	19.23	4.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	49.03	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	75.55	12.25	6.06	-0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.58	48.36	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.58	51.04	11.64	6.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	31.38	5.86	7.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	32.99	11.14	6.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.57	64.86	22.33	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	38.89	10.65	6.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	31.88	5.18	7.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	146.37	17.62	5.03	-0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.56	32.25	10.26	6.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.56	55.89	13.99	6.34	-0.55	0.0	0.0	0.0	0.0	0.0	0.0
14.55	147.60	15.87	5.26	-0.60	0.0	0.0	0.0	0.0	0.0	0.0
14.54	31.04	9.02	6.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.54	90.90	18.55	4.75	-0.29	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
14.54	36.68	8.58	6.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	29.16	8.06	6.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	50.15	20.76	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	54.89	14.87	5.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	57.90	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.53	33.37	7.53	6.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	93.14	17.65	4.74	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.52	27.70	7.14	6.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	68.17	19.09	10.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.52	26.22	19.23	10.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	50.49	25.01	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	52.36	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	44.85	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.51	98.59	10.64	5.79	-0.36	0.0	0.0	0.0	0.0	0.0	0.0
14.51	2143.44	15.45	10.47	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.50	42.10	5.86	6.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	58.75	24.43	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	51.17	5.18	6.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	85.24	16.43	4.77	-0.30	0.0	0.0	0.0	0.0	0.0	0.0
14.50	33.71	12.81	10.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	38.93	19.04	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	41.96	23.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	42.73	12.68	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.49	49.70	12.31	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	115.87	12.02	8.37	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.48	71.77	18.59	5.40	-0.89	0.0	0.0	0.0	0.0	0.0	0.0
14.48	33.03	11.18	5.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.48	40.40	18.19	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	40.51	10.65	5.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	32.24	10.25	5.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	41.71	22.86	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.47	77.47	12.75	5.13	-0.41	0.0	0.0	0.0	0.0	0.0	0.0
14.46	31.03	9.00	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	36.32	8.58	5.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	61.15	22.33	3.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.46	29.16	8.06	5.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	81.17	13.19	4.95	-0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.45	53.19	5.18	10.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.45	62.57	12.35	5.05	-0.47	0.0	0.0	0.0	0.0	0.0	0.0
14.44	42.30	15.99	4.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	41.44	21.64	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.44	70.62	11.58	5.11	-0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.44	37.13	15.51	4.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.43	46.91	21.28	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	47.98	14.87	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	40.54	20.77	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	34.09	18.19	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	37.05	14.39	4.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.42	52.68	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	49.41	20.25	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	24.33	17.78	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.41	50.73	13.76	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	39.65	19.82	3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	48.87	25.02	2.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.40	37.87	13.19	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	37.36	17.11	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	36.83	5.85	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	98.90	22.17	3.03	-0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.39	41.32	12.68	4.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	46.37	12.31	4.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.39	84.53	14.79	4.20	-0.37	0.0	0.0	0.0	0.0	0.0	0.0
14.38	33.06	11.21	4.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	42.13	10.65	4.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	32.23	10.23	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	47.80	9.63	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.42	16.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	31.02	8.99	5.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	35.96	8.58	5.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	29.16	8.06	5.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.38	71.09	16.28	3.90	-0.82	0.0	0.0	0.0	0.0	0.0	0.0
14.37	27.70	7.15	5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	41.29	15.99	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	47.61	23.38	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.37	40.74	6.48	5.41	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
14.36	36.90	15.50	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.36	35.60	22.81	2.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	38.11	18.19	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	24.69	5.85	5.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.35	95.54	23.95	6.77	-0.17	0.0	0.0	0.0	0.0	0.0	0.0
14.35	43.75	14.87	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	38.27	5.18	5.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.34	2152.58	15.49	11.11	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.33	38.23	14.39	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	32.96	21.62	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.33	51.49	10.54	9.49	-0.38	0.0	0.0	0.0	0.0	0.0	0.0
14.32	35.54	21.28	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.20	17.11	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	26.45	5.55	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.32	41.78	13.76	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	30.24	20.77	2.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	17.50	13.35	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	20.21	13.20	3.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	67.82	12.31	11.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.31	52.95	16.50	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	120.45	15.85	7.67	-1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.30	67.88	14.13	3.69	-0.64	0.0	0.0	0.0	0.0	0.0	0.0
14.30	28.18	8.06	4.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	61.06	7.93	4.68	-0.07	0.0	0.0	0.0	0.0	0.0	0.0
14.30	28.20	8.98	4.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	48.32	25.04	1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.30	131.70	13.03	3.83	-0.32	0.0	0.0	0.0	0.0	0.0	0.0
14.29	54.92	15.04	3.48	-0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.29	77.71	8.42	4.56	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.29	105.87	21.89	6.45	-0.27	0.0	0.0	0.0	0.0	0.0	0.0
14.29	26.60	11.25	4.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	37.13	11.64	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	72.22	15.32	3.40	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.29	42.66	15.49	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	36.83	23.84	1.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.29	30.41	5.85	4.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	46.56	23.38	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	29.09	19.23	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.28	89.42	16.63	3.10	-0.88	0.0	0.0	0.0	0.0	0.0	0.0
14.28	51.37	14.87	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	45.24	22.33	2.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	20.85	17.77	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	38.59	14.39	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.27	30.16	21.61	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	31.55	21.28	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	26.82	20.77	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.26	45.63	13.76	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	30.45	20.25	2.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	23.48	19.85	2.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	35.33	13.35	3.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.25	24.54	19.23	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	24.86	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	55.34	17.11	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	41.03	12.68	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	33.10	12.31	3.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	38.33	11.64	3.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.24	27.97	11.27	3.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	38.74	10.65	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.36	10.21	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	43.18	9.63	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.74	8.97	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	54.37	12.11	3.48	-0.46	0.0	0.0	0.0	0.0	0.0	0.0
14.23	28.38	8.06	4.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	32.51	7.53	4.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.23	27.71	7.16	4.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.06	28.74	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	162.77	25.36	6.41	-0.48	0.0	0.0	0.0	0.0	0.0	0.0
14.22	170.46	25.96	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	164.11	24.42	7.53	-0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.22	163.47	18.53	6.71	-0.83	0.0	0.0	0.0	0.0	0.0	0.0
14.22	133.86	21.17	7.53	-0.04	0.0	0.0	0.0	0.0	0.0	0.0
14.22	138.19	19.49	7.53	-0.04	0.0	0.0	0.0	0.0	0.0	0.0
14.22	35.63	18.06	7.53	-0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.22	102.49	16.77	7.53	-0.03	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
14.22	104.53	15.42	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.22	145.03	13.69	7.53	-0.07	0.0	0.0	0.0	0.0	0.0	0.0
14.22	94.15	12.31	7.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.22	127.48	9.91	6.74	-0.29	0.0	0.0	0.0	0.0	0.0	0.0
14.22	223.18	15.22	7.75	-1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	90.04	7.57	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	251.85	9.63	7.66	-1.06	0.0	0.0	0.0	0.0	0.0	0.0
14.21	115.17	3.67	7.53	-0.03	0.0	0.0	0.0	0.0	0.0	0.0
14.21	155.00	2.18	7.53	-0.05	0.0	0.0	0.0	0.0	0.0	0.0
14.21	59.04	24.01	7.05	-0.33	0.0	0.0	0.0	0.0	0.0	0.0
14.21	26.17	5.18	4.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	13.29	5.18	7.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	17.99	19.09	7.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	53.99	29.13	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.21	123.00	12.88	8.51	-1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.20	65.43	25.69	6.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	53.99	1.65	9.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	47.23	29.13	9.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	46.44	10.16	6.90	-0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.20	28.85	12.31	6.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.20	35.15	12.31	8.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	101.85	14.54	9.71	-1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.19	29.23	19.09	11.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	40.48	29.13	10.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	75.62	25.69	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	18.39	19.23	11.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.19	135.87	16.04	5.57	-1.17	0.0	0.0	0.0	0.0	0.0	0.0
14.18	59.00	24.43	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	41.64	25.69	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	76.49	15.66	8.62	-1.20	0.0	0.0	0.0	0.0	0.0	0.0
14.18	39.39	23.83	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	33.45	1.65	11.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	52.17	23.38	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	58.75	25.69	5.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	21.11	12.31	6.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	37.60	22.73	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.18	51.14	22.33	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	2207.36	15.62	11.93	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.17	35.78	21.59	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	37.83	21.28	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	66.47	23.20	3.19	-0.25	0.0	0.0	0.0	0.0	0.0	0.0
14.17	35.95	19.04	5.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.17	39.24	20.25	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.03	13.34	6.41	-0.72	0.0	0.0	0.0	0.0	0.0	0.0
14.16	69.91	25.69	11.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	60.93	19.15	3.17	-9.70e-03	0.0	0.0	0.0	0.0	0.0	0.0
14.16	56.55	19.04	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	58.40	25.69	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	127.96	18.85	3.85	-0.63	0.0	0.0	0.0	0.0	0.0	0.0
14.16	29.64	17.77	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	43.35	24.30	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.16	132.48	14.85	6.40	-0.92	0.0	0.0	0.0	0.0	0.0	0.0
14.15	39.86	22.92	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.85	16.50	2.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.75	16.42	4.05	-0.73	0.0	0.0	0.0	0.0	0.0	0.0
14.15	84.66	16.65	4.11	-0.70	0.0	0.0	0.0	0.0	0.0	0.0
14.15	81.23	13.22	2.71	-0.40	0.0	0.0	0.0	0.0	0.0	0.0
14.15	82.73	13.18	4.05	-0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.15	21.86	19.81	4.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	56.48	13.05	3.81	-0.54	0.0	0.0	0.0	0.0	0.0	0.0
14.15	69.24	12.88	4.12	-0.66	0.0	0.0	0.0	0.0	0.0	0.0
14.15	42.16	15.46	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.15	28.78	8.96	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	74.54	5.18	4.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	46.75	25.69	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.14	92.74	12.43	2.79	-0.26	0.0	0.0	0.0	0.0	0.0	0.0
14.14	39.37	8.80	3.74	-0.25	0.0	0.0	0.0	0.0	0.0	0.0
14.14	104.63	13.23	6.11	-0.10	0.0	0.0	0.0	0.0	0.0	0.0
14.14	60.49	13.50	3.33	-0.42	0.0	0.0	0.0	0.0	0.0	0.0
14.13	44.10	13.76	2.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	27.93	11.31	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.13	70.71	12.45	2.71	-0.09	0.0	0.0	0.0	0.0	0.0	0.0
14.13	81.41	14.62	2.98	-0.34	0.0	0.0	0.0	0.0	0.0	0.0
14.13	57.65	10.32	3.37	-0.38	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
14.13	41.59	25.69	2.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.12	224.50	14.31	3.89	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.11	41.57	12.74	3.51	-0.69	0.0	0.0	0.0	0.0	0.0	0.0
14.11	36.06	25.69	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.11	61.60	14.94	3.39	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.11	16.96	19.04	2.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	47.73	12.31	12.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.08	1952.37	15.81	1.76	-1.03	0.0	0.0	0.0	0.0	0.0	0.0
14.07	26.42	19.09	12.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.06	12.39	19.23	12.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	17.39	22.33	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	13.16	22.65	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.01	3209.66	15.39	12.68	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
14.01	25.36	23.51	-0.03	-0.21	0.0	0.0	0.0	0.0	0.0	0.0
14.01	16.28	25.08	-0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.00	545.87	14.34	1.46	-0.96	0.0	0.0	0.0	0.0	0.0	0.0
13.82	2601.25	15.40	13.51	-1.37	0.0	0.0	0.0	0.0	0.0	0.0
13.63	1540.70	15.40	14.34	-1.37	0.0	15.43	14.34	0.095	0.025	0.0
13.51	4869.50	16.00	7.39	-1.37	0.0	19.47	9.12	0.603	0.226	0.327
13.41	5.341e+04	15.87	7.62	-1.37	0.0	14.77	7.43	0.737	0.151	0.030
13.31	4324.19	16.20	7.27	-1.37	0.0	14.78	7.34	0.809	0.175	0.011
12.56	9219.00	16.13	7.38	-1.37	0.0	14.66	7.34	0.748	0.183	0.006
11.78	9339.06	16.13	7.36	-1.37	0.0	14.78	7.34	0.754	0.168	0.004
11.20	283.34	14.71	9.83	-0.09	0.0	14.72	9.09	1.170	0.012	0.520
11.00	9007.32	16.19	7.27	-1.37	0.0	14.66	7.38	0.768	0.190	0.015
10.62	262.88	14.71	9.83	-0.09	0.0	14.72	9.09	1.170	0.012	0.520
10.23	4497.59	16.20	7.27	-1.37	0.0	14.78	7.33	0.756	0.174	0.010
10.13	1.461e+05	15.79	8.49	-1.37	0.0	14.77	7.43	0.737	0.140	0.165
10.03	4324.19	16.20	7.27	-1.37	0.0	14.78	7.34	0.809	0.175	0.011
9.28	9219.00	16.13	7.38	-1.37	0.0	14.66	7.34	0.748	0.183	0.006
8.50	9326.91	16.14	7.36	-1.37	0.0	14.78	7.34	0.754	0.169	0.003
7.92	283.34	14.71	9.83	-0.09	0.0	14.72	9.09	1.170	0.012	0.520
7.72	8995.18	16.19	7.27	-1.37	0.0	14.66	7.38	0.768	0.191	0.016
7.34	262.88	14.71	9.83	-0.09	0.0	14.72	9.09	1.170	0.012	0.520
6.94	4497.59	16.20	7.27	-1.37	0.0	14.78	7.33	0.756	0.174	0.010
6.84	1.451e+05	15.78	8.50	-1.37	0.0	14.77	7.41	0.742	0.134	0.168
6.74	5320.79	16.20	7.26	-1.37	0.0	14.78	7.34	0.809	0.176	0.011
5.96	1.105e+04	16.15	7.36	-1.37	0.0	14.67	7.34	0.748	0.185	0.003
5.19	1.103e+04	16.14	7.35	-1.37	0.0	14.78	7.34	0.755	0.169	0.002
4.41	9316.78	16.13	7.37	-1.37	0.0	14.66	7.38	0.768	0.184	9.4582e-04
3.88	8210.44	16.20	7.27	-1.37	0.0	14.78	7.33	0.756	0.174	0.010
3.63	4050.96	19.09	10.18	0.0	0.0	18.33	9.64	4.491	0.044	0.092
Risulta	5.179e+05									

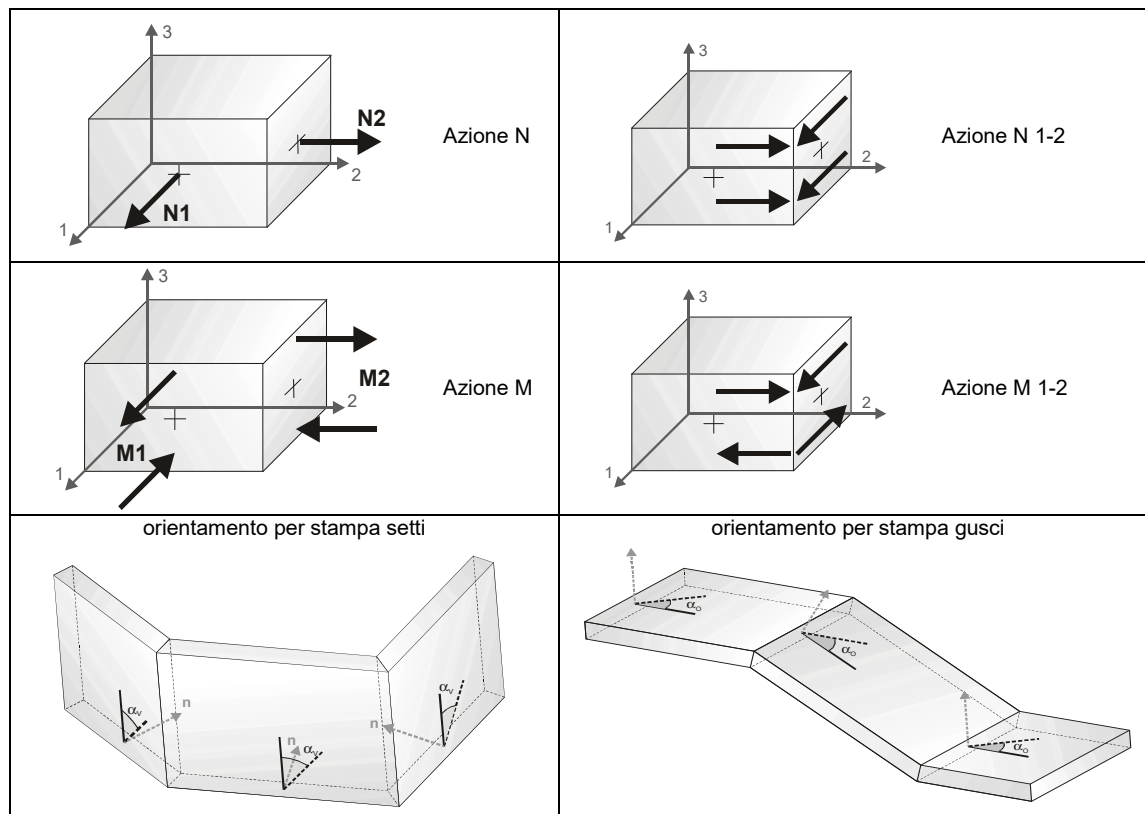
Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kg		kg		kg			
1	2.527	0.396	0.118	1.444e+04	2.8	4.054e+05	78.3	0.0	0.0	0.0	0.0
2	2.936	0.341	0.137	3.716e+05	71.8	2.502e+04	4.8	0.0	0.0	0.0	0.0
3	3.584	0.279	0.167	4.008e+04	7.7	9789.76	1.9	0.0	0.0	0.0	0.0
4	7.587	0.132	0.173	1.123e+04	2.2	3.262e+04	6.3	0.0	0.0	0.0	0.0
5	8.136	0.123	0.173	7192.86	1.4	104.15	2.01e-02	0.0	0.0	0.0	0.0
6	8.196	0.122	0.173	2566.53	0.5	1610.37	0.3	0.0	0.0	0.0	0.0
7	8.303	0.120	0.173	3.006e+04	5.8	1.547e+04	3.0	0.0	0.0	0.0	0.0
8	8.746	0.114	0.173	1203.54	0.2	0.96	1.85e-04	0.0	0.0	0.0	0.0
9	8.907	0.112	0.173	850.12	0.2	1283.52	0.2	0.0	0.0	0.0	0.0
10	9.380	0.107	0.173	2282.67	0.4	1657.88	0.3	0.0	0.0	0.0	0.0
11	9.390	0.107	0.173	203.39	3.93e-02	91.16	1.76e-02	0.0	0.0	0.0	0.0
12	9.448	0.106	0.173	3112.81	0.6	105.36	2.03e-02	0.0	0.0	0.0	0.0
13	9.686	0.103	0.173	421.89	8.15e-02	6.72	1.30e-03	0.0	0.0	0.0	0.0
14	9.871	0.101	0.173	226.34	4.37e-02	2.79	5.39e-04	0.0	0.0	0.0	0.0
15	9.877	0.101	0.173	2.28	4.40e-04	39.72	7.67e-03	0.0	0.0	0.0	0.0
16	10.112	0.099	0.173	1773.07	0.3	1970.22	0.4	0.0	0.0	0.0	0.0
17	10.274	0.097	0.173	447.51	8.64e-02	902.51	0.2	0.0	0.0	0.0	0.0
18	10.389	0.096	0.173	1.90	3.67e-04	0.04	8.44e-06	0.0	0.0	0.0	0.0
19	10.494	0.095	0.173	11.90	2.30e-03	397.46	7.67e-02	0.0	0.0	0.0	0.0
20	10.561	0.095	0.173	7.80	1.51e-03	333.01	6.43e-02	0.0	0.0	0.0	0.0
21	10.573	0.095	0.173	38.33	7.40e-03	7.00	1.35e-03	0.0	0.0	0.0	0.0
22	10.739	0.093	0.173	799.64	0.2	2026.94	0.4	0.0	0.0	0.0	0.0
23	10.760	0.093	0.173	9.16	1.77e-03	2.00e-04	0.0	0.0	0.0	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
24	10.766	0.093	0.173	80.24	1.55e-02	393.61	7.60e-02	0.0	0.0	0.0	0.0
25	10.896	0.092	0.173	1507.85	0.3	453.85	8.76e-02	0.0	0.0	0.0	0.0
26	10.926	0.092	0.173	56.55	1.09e-02	185.56	3.58e-02	0.0	0.0	0.0	0.0
27	10.936	0.091	0.173	221.26	4.27e-02	134.53	2.60e-02	0.0	0.0	0.0	0.0
28	11.023	0.091	0.173	353.92	6.83e-02	264.94	5.12e-02	0.0	0.0	0.0	0.0
29	11.047	0.091	0.173	271.36	5.24e-02	215.29	4.16e-02	0.0	0.0	0.0	0.0
30	11.143	0.090	0.173	0.01	2.88e-06	0.05	9.09e-06	0.0	0.0	0.0	0.0
Risulta				4.911e+05		5.004e+05		0.0			
In percentuale				94.82		96.62		0.0			

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)
1	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
1	1	0.0	-9477.96	7508.97	-219.44	-1.532e+04	1.043e+04	3570.11
1	1	103.00	-1.016e+04	7508.97	-219.44	2.190e+05	9577.85	-2234.76
1	1	206.00	-7424.16	9487.49	-86.65	5.372e+05	-5455.80	3858.04
...								
1	132	363.00	-1562.35	6166.24	-292.72	2.026e+05	-1.930e+04	6185.64
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.663e+04	-2219.90	-1323.63	-2.674e+05	-1.366e+05	-1.573e+04
			634.20	1.610e+04	1092.85	7.185e+05	1.394e+05	2.263e+04

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
2	1	0.0	-3.408e+04	-7356.75	-2743.78	2.307e+06	1.764e+05	3.006e+04
2	1	103.00	-3.335e+04	-7356.75	-2743.78	2.226e+06	1.777e+05	1.437e+04
2	1	206.00	-2.414e+04	-7739.28	-190.51	8.667e+05	2.529e+04	2.418e+04
...								
2	132	363.00	-6752.77	-6477.28	-1310.54	-7.037e+05	-7.094e+04	-1.222e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-4.183e+04	-1.498e+04	-4834.88	-1.337e+06	-1.965e+05	-5.170e+04
			-3761.82	117.00	2213.80	4.221e+06	3.180e+05	5.427e+04

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
3	1	0.0	-2.301e+05	-1238.41	-6035.12	-1.940e+07	5.316e+05	9825.29
3	1	103.00	-2.294e+05	-1238.41	-6035.12	-1.935e+07	5.314e+05	1.076e+04
3	1	206.00	-2.198e+05	-1327.11	-2243.43	-1.712e+07	1.050e+05	9877.55
...								
3	132	363.00	-1.649e+05	-3466.16	-3733.44	-1.327e+07	-3.588e+05	6762.31
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-3.155e+05	-6.555e+04	-8119.66	-4.171e+07	-7.341e+05	-1.421e+04
			-7.771e+04	5.892e+04	365.73	1.516e+07	7.065e+05	3.006e+04

Macro	Tipo	Angolo 1-Z (gradi)
4	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
4	1	0.0	-4.715e+04	7462.54	-20.27	4.625e+06	-6218.30	2664.79
4	1	103.00	-4.662e+04	7462.54	-20.27	4.672e+06	-6064.91	1.079e+04
4	1	206.00	-4.029e+04	8584.91	-82.61	4.174e+06	-1.137e+04	6375.01
...								
4	132	363.00	-1.909e+04	7236.75	-91.88	1.659e+06	-2.238e+04	-1.813e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T

-6.498e+04	-7626.49	-479.29	-6.002e+06	-5.035e+04	-3.614e+04
7226.20	2.116e+04	467.55	9.509e+06	2.554e+04	1.765e+04

Macro	Tipo	Angolo 1-Z (gradi)
5	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
5	1	0.0	-5334.12	-279.90	-206.04	3868.20	3183.46	699.06
5	1	103.00	-5273.66	-279.90	-206.04	3868.20	3152.04	329.50
5	1	206.00	-5472.29	-591.92	109.60	-4421.05	-1690.08	1520.75
...								
5	132	363.00	-6508.78	-552.04	21.84	-1.987e+04	-571.21	183.95
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.746e+04	-1114.84	-480.46	-3.804e+04	-6727.69	-4776.73
			4445.41	65.19	275.62	7998.93	8642.86	5144.63

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
6	1	0.0	-3.077e+04	-3009.90	-2422.07	-2.390e+06	3.508e+05	-2.122e+04
6	1	103.00	-3.152e+04	-3009.90	-2422.07	-2.610e+06	3.512e+05	5482.58
6	1	206.00	-2.207e+04	-2940.73	-1728.69	-1.915e+06	1.369e+05	2.502e+04
...								
6	132	363.00	-4026.14	-2089.53	-1569.08	2.063e+05	-1.308e+05	1.372e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-3.603e+04	-4.544e+04	-4211.01	-2.806e+06	-4.181e+05	-3.920e+04
			-290.08	4.153e+04	895.15	7.082e+05	5.462e+05	5.998e+04

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
7	1	0.0	-988.89	-138.97	104.60	5778.32	-1960.79	768.46
7	1	103.00	-994.16	-138.97	104.60	5778.32	-1635.74	59.92
7	1	206.00	-632.66	581.38	-53.40	3375.16	679.34	-19.77
...								
7	132	363.00	-137.62	42.78	4.05	-892.18	674.44	679.46
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1070.62	-956.76	-107.30	-3376.13	-3715.23	-3128.40
			167.96	1705.18	200.61	7745.83	3777.47	4487.33

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	0.0	-2604.36	319.00	-763.43	7811.34	7.647e+04	-592.16
8	1	103.00	-2228.42	319.00	-763.43	7522.07	7.653e+04	782.16

8	1	206.00	-1297.00	376.86	-230.03	5034.17	2.532e+04	1444.42
...								
8	132	363.00	-1486.43	178.33	-107.93	1091.00	-1.358e+04	836.44
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-7754.50	-9818.47	-1100.58	-4.339e+04	-4.700e+04	-4066.46
			2731.72	1.009e+04	331.80	5.843e+04	1.007e+05	7016.65

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
9	1	0.0	-992.36	-76.28	-105.01	5974.87	1867.65	-751.93
9	1	103.00	-995.69	-76.28	-105.01	5974.87	1545.37	55.88
9	1	206.00	-626.07	698.04	58.09	3475.50	-539.61	74.73
...								
9	132	363.00	-116.13	64.15	32.36	-874.02	-260.12	-1390.57
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1076.74	-944.04	-223.07	-3163.38	-3128.53	-5890.84
			86.96	1713.15	127.41	7545.70	3788.31	3109.71

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	0.0	-3.160e+04	5819.63	-2441.17	1.891e+06	3.432e+05	3.229e+04
10	1	103.00	-3.242e+04	5819.63	-2441.17	2.069e+06	3.435e+05	3315.23
10	1	206.00	-2.297e+04	5803.87	-1673.30	1.349e+06	1.311e+05	-1.807e+04
...								
10	132	363.00	-4130.11	2678.36	-1496.97	-3.424e+05	-1.245e+05	-8523.13
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-3.515e+04	-3.751e+04	-4098.85	-1.296e+06	-4.036e+05	-5.376e+04
			229.34	4.287e+04	764.37	2.592e+06	5.199e+05	4.586e+04

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
12	1	0.0	-1.796e+05	3317.08	-577.77	2.741e+06	4.038e+04	1.579e+04
12	1	103.00	-1.798e+05	3317.08	-577.77	3.058e+06	4.044e+04	1.872e+04
12	1	206.00	-1.755e+05	3348.59	-282.58	4.308e+06	-3734.72	1.783e+04
...								
12	132	363.00	-1.379e+05	-376.32	214.50	6.185e+06	-4.689e+04	-1.969e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.335e+05	-3.718e+04	-2215.98	-1.073e+07	-1.138e+05	-3.990e+04
			-6.563e+04	3.615e+04	1519.09	1.520e+07	1.620e+05	3.174e+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	0.0	-6.204e+04	8720.06	472.27	2.624e+05	-2.602e+04	-848.22
13	1	103.00	-6.140e+04	8720.06	472.27	4.737e+05	-2.599e+04	-890.96
13	1	206.00	-5.023e+04	9982.92	1.89	8.118e+04	-1624.26	-667.73
...								
13	132	363.00	-1.904e+04	2054.89	24.94	-9.955e+05	706.65	-3585.00
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-7.830e+04	-1.648e+04	-351.99	-3.734e+06	-2.939e+04	-1.129e+04
			-1.163e+04	2.897e+04	615.91	3.901e+06	1.230e+04	8577.82

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	0.0	-3663.13	410.55	-55.82	1.035e+04	715.29	-583.06
14	1	103.00	-3591.37	410.55	-55.82	1.035e+04	662.17	1090.27
14	1	206.00	-2533.12	772.80	35.57	3106.07	-312.71	-329.23
...								
14	132	363.00	-956.61	-623.65	38.84	-5449.98	237.13	-2087.32
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6239.05	-2047.76	-182.54	-2.609e+04	-1963.33	-3820.82
			4325.83	1985.29	191.50	2.224e+04	2437.59	1739.08

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	0.0	-7.547e+04	-2852.25	-1382.56	-4.627e+05	5.889e+04	3921.89
15	1	103.00	-7.462e+04	-2852.25	-1382.56	-4.526e+05	5.877e+04	2327.42
15	1	206.00	-6.657e+04	-2770.55	202.35	-2.444e+06	-1957.57	-1.234e+04
...								
15	132	363.00	-3.745e+04	-4416.01	30.44	-1.290e+06	-2.295e+04	1789.67
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-9.790e+04	-4.131e+04	-2204.66	-1.395e+07	-5.006e+04	-2.183e+04
			-2.233e+04	3.276e+04	362.73	1.041e+07	9.573e+04	1.482e+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	0.0	-5158.38	280.20	-102.64	-3.742e+04	3000.73	-347.61
16	1	103.00	-5103.63	280.20	-102.64	-3.682e+04	3112.85	-21.83
16	1	206.00	-4645.01	114.82	-27.56	-5.588e+04	-3991.03	1467.52
...								
16	132	363.00	-3100.78	1970.06	-210.56	-1.386e+04	3367.36	-423.53
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.853e+04	-646.85	-443.34	-3.649e+05	-5239.30	-3348.29
			1.182e+04	4247.18	326.19	2.825e+05	9143.05	4702.65

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	0.0	-9925.17	147.28	94.09	-1.147e+05	-3861.97	-67.50
17	1	103.00	-9660.07	147.28	94.09	-1.131e+05	-3539.90	280.76
17	1	206.00	-9281.95	69.63	-43.58	-9.522e+04	-887.22	1498.79
...								
17	132	363.00	-7568.98	286.44	405.35	-9.814e+04	2.064e+04	493.18
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.707e+04	-6913.39	-389.69	-1.621e+06	-1.879e+04	-9785.26
			1.193e+04	7963.02	872.50	1.425e+06	3.594e+04	1.190e+04

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	0.0	-1.867e+04	-1083.48	203.21	-9.648e+04	-1.469e+04	-3364.06
18	1	103.00	-1.829e+04	-1083.48	203.21	-9.343e+04	-1.513e+04	-3625.53
18	1	206.00	-1.520e+04	-1203.17	324.92	-1.356e+05	1.163e+04	-3541.82
...								
18	132	363.00	-8397.11	-746.15	-2868.67	-2.029e+05	-1.201e+05	-1.271e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.939e+04	-6211.77	-5554.88	-1.624e+06	-2.226e+05	-2.674e+04
			1.247e+04	5621.21	536.01	1.218e+06	2.020e+04	1.466e+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	0.0	-6309.23	2491.30	154.43	-1.087e+05	-3311.39	2300.12
19	1	103.00	-6347.16	2491.30	154.43	-1.063e+05	-3699.29	928.69
19	1	206.00	-6623.31	2672.63	-117.97	-6.133e+04	-2225.60	1339.55
...								
19	132	363.00	-2472.10	2671.42	84.22	5.505e+04	-1915.00	-1056.36
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.463e+04	-6895.57	-182.59	-8.766e+05	-1.357e+04	-5928.72
			1.968e+04	1.131e+04	194.39	9.867e+05	5658.29	5249.60

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	0.0	-4020.70	436.89	-31.90	1.083e+04	-261.29	1.16
20	1	103.00	-3949.45	436.89	-31.90	1.083e+04	-283.28	-845.14
20	1	206.00	-2969.19	649.12	47.24	4156.39	589.47	921.96
...								
20	132	363.00	-1234.80	-79.08	338.10	-6853.14	4327.28	7068.13
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-5175.15	-420.72	-181.49	-1.914e+04	-2346.27	-4410.21
			2705.55	1281.62	690.91	1.860e+04	8944.86	1.368e+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	0.0	-4.559e+04	-1.056e+04	606.71	-1.071e+06	-5.654e+04	6473.69
21	1	103.00	-4.485e+04	-1.056e+04	606.71	-9.910e+05	-5.646e+04	3.123e+04
21	1	206.00	-3.956e+04	-9766.49	684.75	-6.146e+05	9914.44	2.881e+04
...								
21	132	363.00	-2.228e+04	-8016.35	821.99	-2.436e+05	1.392e+05	-5.527e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6.315e+04	-2.759e+04	-334.95	-3.153e+06	-9.465e+04	-1.059e+05
			-1.189e+04	9490.11	1686.83	1.187e+06	2.525e+05	5.130e+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	0.0	-1.047e+05	-941.75	906.45	8.052e+06	-6.254e+04	-3354.92
22	1	103.00	-1.039e+05	-941.75	906.45	7.879e+06	-6.276e+04	-2275.91
22	1	206.00	-1.026e+05	-1635.76	19.89	8.036e+06	-1.507e+04	-3251.78
...								
22	132	363.00	-8.336e+04	-1387.03	7.62	6.625e+06	1404.04	1612.86
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.371e+05	-3.229e+04	-596.14	-2.996e+06	-1.174e+05	-1.334e+04
			-3.963e+04	3.061e+04	2204.89	1.625e+07	1.391e+04	1.505e+04

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	0.0	-4.135e+04	1062.10	-506.05	1.454e+06	6.258e+04	-9806.93
23	1	103.00	-4.019e+04	1062.10	-506.05	1.451e+06	6.264e+04	-9428.54
23	1	206.00	-3.295e+04	1395.44	-268.49	1.171e+06	2.292e+04	-6249.02
...								
23	132	363.00	-1.450e+04	572.35	208.34	2.606e+05	1.726e+04	1791.29
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-4.774e+04	-1.402e+04	-1025.72	-6.509e+06	-1.606e+04	-2.717e+04
			1.151e+04	1.517e+04	866.84	7.030e+06	8.663e+04	3.075e+04

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	0.0	-9.663e+04	-43.41	-1002.26	-1.377e+07	1.012e+05	5543.08
24	1	103.00	-9.563e+04	-43.41	-1002.26	-1.360e+07	1.011e+05	-2732.24
24	1	206.00	-7.963e+04	697.32	-295.93	-8.455e+06	3.436e+04	-2591.83
...								
24	132	363.00	-3.599e+04	-3918.25	90.34	-3.730e+06	1.845e+04	4279.97
M_S			N memb.	V memb.	V orto	M memb.	M orto	T

-1.097e+05	-4.974e+04	-2633.55	-2.082e+07	-2.229e+04	-2.064e+04
-6235.37	4.212e+04	1230.12	7.978e+06	1.595e+05	2.447e+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	0.0	-1.635e+04	-3420.50	-668.02	3.197e+05	1.492e+04	-1.556e+04
25	1	103.00	-1.571e+04	-3420.50	-668.02	3.270e+05	1.509e+04	4463.51
25	1	206.00	-1.203e+04	-2792.04	273.74	1.603e+05	-5378.57	-8026.84
...								
25	132	363.00	-5309.03	-3337.66	71.36	-2.581e+04	-5739.62	1659.50
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.089e+04	-7531.92	-1094.23	-7.770e+05	-1.151e+04	-1.957e+04
			4349.96	2402.58	449.50	7.254e+05	2.461e+04	9234.21

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
26	1	0.0	-5.907e+04	-2897.21	-10.58	1.483e+06	-2.558e+04	-4727.29
26	1	103.00	-5.944e+04	-2897.21	-10.58	1.446e+06	-2.632e+04	1893.70
26	1	206.00	-5.660e+04	-2022.61	214.91	1.997e+05	-1.556e+04	1494.96
...								
26	132	363.00	-4.089e+04	348.90	351.50	1.109e+06	2.857e+04	1685.21
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-7.340e+04	-2.121e+04	-425.28	-3.494e+05	-3.774e+04	-1.095e+04
			-1.987e+04	2.067e+04	518.40	2.436e+06	5.308e+04	1.218e+04

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
27	1	0.0	-4.245e+04	-876.30	-122.19	5.050e+05	403.23	314.47
27	1	103.00	-4.219e+04	-876.30	-122.19	3.725e+05	6.56	-4125.54
27	1	206.00	-3.807e+04	-2586.27	-45.37	-7.476e+05	-8525.69	788.24
...								
27	132	363.00	-2.177e+04	-4273.78	258.32	-7.255e+05	2193.92	-26.07
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-5.229e+04	-3.102e+04	-1084.12	-2.354e+06	-3.488e+04	-2.101e+04
			-1.110e+04	2.264e+04	918.47	2.327e+06	3.414e+04	2.095e+04

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

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
28	1	0.0	-1.572e+04	2702.27	86.32	-2.536e+05	-789.78	-7088.15
28	1	103.00	-1.587e+04	2702.27	86.32	-2.458e+05	-398.90	-6144.04

28	1	206.00	-1.467e+04	681.33	1.44	-1.319e+05	4069.01	-1096.46
...								
28	132	363.00	-1.105e+04	-179.86	-58.07	-1.431e+05	-423.16	4800.84
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.830e+04	-2813.07	-204.20	-4.328e+05	-9347.60	-9075.70
			-4178.52	4001.60	375.22	1.467e+05	8483.96	1.038e+04

Macro	Tipo	Angolo 1-Z (gradi)
29	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
29	1	0.0	-4.971e+04	-2629.09	-174.61	2.518e+06	1.433e+04	9575.87
29	1	103.00	-4.939e+04	-2629.09	-174.61	2.498e+06	1.415e+04	4076.79
29	1	206.00	-4.733e+04	-2675.67	-31.69	2.230e+06	3633.39	-2120.91
...								
29	132	363.00	-3.355e+04	-3208.75	17.63	1.297e+06	408.39	-3051.41
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-6.031e+04	-1.895e+04	-455.08	-1.078e+06	-1.079e+04	-9883.08
			-1.532e+04	1.367e+04	237.25	3.672e+06	2.989e+04	1.374e+04

Macro	Tipo	Angolo 1-Z (gradi)
30	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
30	1	0.0	-1.358e+05	-3.018e+04	2481.78	3.952e+06	-3.377e+05	1.583e+04
30	1	103.00	-1.361e+05	-3.018e+04	2481.78	4.332e+06	-3.389e+05	6729.17
30	1	206.00	-1.235e+05	-3.087e+04	1312.08	3.458e+06	-1.426e+05	5164.84
...								
30	132	363.00	-7.373e+04	-2.510e+04	-38.71	7.275e+04	-4.483e+04	843.63
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.676e+05	-6.206e+04	-661.56	-1.086e+07	-3.710e+05	-4.524e+04
			-1.583e+04	1.165e+04	2916.97	1.718e+07	1.909e+04	4.693e+04

Macro	Tipo	Angolo 1-X (gradi)
433	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
433	1	95	26.46	3.71	4.65	25.53	-4.52	11.44	-39.35	-38.58	10.67	6.20
433	1	100	16.59	-2.85	-2.40	16.14	-2.94	9.39	5.71	9.37	5.73	-0.30
433	1	105	7.46	-4.94	-4.79	7.31	-1.37	7.51	-14.44	-0.76	-6.17	-10.63
...												
433	132	6395	2.76	-4.16	-3.01	1.62	-2.58	-16.26	-155.18	-16.53	-154.91	-6.09
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-74.07	-45.55	-66.86	-54.05		-419.58	-177.67	-419.57	-148.82
			99.72		48.06	98.42	40.96	353.56		184.16	350.37	94.52

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

M_G	Cmb	Nodo	N max daN/cm	N min daN/cm	N 1 daN/cm	N 2 daN/cm	N 1-2 daN/cm	M max daN	M min daN	M 1 daN	M 2 daN	M 1-2 daN
434	1	9	49.16	-19.48	21.29	8.38	-33.71	47.99	-13.46	21.02	13.51	30.50
434	1	10	52.49	-28.22	11.36	12.91	-40.35	128.97	-51.19	60.08	17.70	87.55
434	1	15	45.49	-40.88	-15.84	20.45	-39.19	146.81	-3.84	131.49	11.47	45.52
...												
434	132	6385	34.48	-25.68	13.99	-5.19	-28.51	98.95	-49.90	22.08	26.98	74.39
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-268.88	-225.07	-151.51	-71.70		-964.90	-674.76	-803.41	-216.46
			117.98		101.09	63.86	15.98	864.91		721.56	616.48	289.81

Elem.	Cmb	Nodo	Von Mises daN/cm2	N max daN/cm	N min daN/cm	N 1 daN/cm	N 2 daN/cm	N 1-2 daN/cm	M max daN	M min daN	M 1 daN	M 2 daN	M 1-2 daN
1	1	1	4.92	14.94	-98.68	-2.86	-80.88	-41.30	-18.96	-82.04	-21.80	-79.20	-13.08
		4	3.82	49.89	-32.72	7.95	9.21	-41.30	51.98	-62.49	-12.10	1.59	-56.82
		3	3.85	34.63	-52.95	-23.73	5.41	-41.30	-14.79	-151.91	-151.55	-15.15	-6.97
...													
6363	132	380	2.08	2.35	-6.04	-1.95	-1.74	4.20	-42.70	-143.56	-121.04	-65.22	-42.00
Elem.			Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
					-558.56	-234.02	-556.63	-138.59		-4356.83	-1232.54	-3854.83	-1300.17
			70.92	358.19		168.65	345.92	153.87	2366.39		852.77	2286.85	1646.72

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	Involuppo del momento come al punto 7.4.4.5.1 (informativo)
V invil	Involuppo 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 è $=1$ 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 è $=1$ le verifiche geotecniche vengono effettuate senza nessun incremento.

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok 1	0.13	2.57e-02	4.98e-02	5.7	5.7	3.9	3.9	-120.4	-12.8	66.9	-86.6	-31.6	78.3
1	ok 2	0.13	8.69e-02	5.41e-02	5.7	5.7	3.9	3.9	-125.3	-53.1	66.9	-120.8	-316.3	-49.8
1	ok 3	0.13	8.79e-02	3.32e-02	5.7	5.7	3.9	3.9	15.9	-36.1	66.9	86.6	-291.4	39.7
...														
1	ok 55	0.13	6.63e-02	3.56e-03	5.7	5.7	3.9	3.9	-2.1	-9.9	-2.3	-1.3	-194.3	23.8
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.13	0.12	0.05	5.65	5.65	3.93	3.93	-125.29	-53.05	-4.39	-493.59	-316.33	-128.15
		0.13							22.55	87.83	66.91	387.75	203.81	185.61
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok 1	0.13	0.1	4.58e-02	5.7	5.7	3.9	3.9	-121.3	-20.1	48.2	613.5	56.0	-78.3
2	ok 2	0.13	0.1	4.47e-02	5.7	5.7	3.9	3.9	-119.6	-5.4	48.2	600.9	-49.7	-41.2
2	ok 5	0.13	7.40e-02	3.30e-02	5.7	5.7	3.9	3.9	-80.7	2.6	46.2	-260.7	-74.4	195.1
...														
2	ok 85	0.13	0.4	7.45e-02	5.7	5.7	3.9	3.9	-214.6	17.1	-60.6	-1283.4	-206.7	-278.5
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.13	0.40	0.08	5.65	5.65	3.93	3.93	-215.80	-30.84	-70.64	-1283.40	-310.24	-278.50
		0.13							21.81	128.08	48.20	718.48	292.22	242.36
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
3	ok 51	0.17	2.69e-02	5.63e-03	5.7	5.7	3.9	3.9	-7.9	-1.9	-8.7	20.4	45.1	20.9
3	ok 52	0.17	1.11e-02	4.86e-03	5.7	5.7	3.9	3.9	-6.7	3.0	-8.7	17.7	13.5	1.9
3	ok 53	0.17	3.61e-02	6.41e-03	5.7	5.7	3.9	3.9	3.2	2.6	-2.1	0.4	-29.7	-5.6
...														
3	ok 2267	0.17	9.02e-02	9.10e-02	5.7	5.7	3.9	3.9	-222.0	-4.6	42.0	22.3	20.6	26.8
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.14	0.11	5.65	5.65	3.93	3.93	-228.09	-70.88	-100.11	-284.73	-75.97	-57.19
		0.17							7.60	55.75	96.57	302.30	105.21	54.85
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
4	ok 91	0.17	1.46e-02	2.91e-02	5.7	5.7	3.9	3.9	-22.8	-13.2	23.0	-27.6	10.2	13.8
4	ok 92	0.17	1.42e-02	2.45e-02	5.7	5.7	3.9	3.9	-24.1	-35.8	23.0	-25.5	30.0	14.6
4	ok 93	0.17	2.29e-02	3.65e-02	5.7	5.7	3.9	3.9	-71.3	12.7	40.6	-9.3	26.3	-8.6
...														
4	ok 140	0.17	1.80e-02	4.79e-02	5.7	5.7	3.9	3.9	-101.5	-29.7	31.6	-5.3	-13.6	-15.3
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.07	0.17	5.65	5.65	3.93	3.93	-412.64	-105.44	-101.58	-279.24	-30.66	-95.37
		0.17							7.32	19.58	56.24	168.95	60.39	34.37
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
5	ok 106	0.17	4.00e-02	0.1	5.7	5.7	3.9	3.9	-315.1	-29.7	-6.9	229.9	-3.8	0.9
5	ok 107	0.17	4.18e-02	0.1	5.7	5.7	3.9	3.9	-311.7	-1.8	-6.9	223.3	-60.3	17.3
5	ok 110	0.17	2.66e-02	0.1	5.7	5.7	3.9	3.9	-273.2	2.2	-23.8	-114.1	24.0	35.7
...														
5	ok 145	0.17	3.79e-02	0.2	5.7	5.7	3.9	3.9	-556.6	-79.8	-30.4	-35.1	30.2	27.8
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.12	0.22	5.65	5.65	3.93	3.93	-556.63	-79.83	-30.39	-209.01	-60.29	-52.46
		0.17							-209.45	20.33	-6.95	243.65	30.22	45.02
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
6	ok 101	0.13	2.07e-02	1.05e-02	5.7	5.7	3.9	3.9	13.1	4.2	-31.1	95.2	-5.9	7.5
6	ok 102	0.13	2.73e-02	9.42e-03	5.7	5.7	3.9	3.9	13.6	8.3	-31.1	97.6	16.1	-38.4
6	ok 103	0.13	2.19e-02	1.39e-02	5.7	5.7	3.9	3.9	-5.7	-0.6	-38.8	-41.9	-4.1	59.1
...														
6	ok 410	0.13	0.1	1.88e-02	5.7	5.7	3.9	3.9	27.2	-38.6	-38.2	-480.7	-52.8	49.8

M_S			x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
			0.13	0.12	0.03	5.65	5.65	3.93	3.93	-94.75 31.10	-43.38 34.10	-40.51 47.28	-485.70 545.93	-94.06 100.75	-52.36 63.85
M_S	Nodo		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										daN/cm	daN/cm	daN/cm	daN	daN	daN
7	ok 406		0.13	3.92e-02	3.35e-02	5.7	5.7	3.9	3.9	-98.5	-12.2	-20.8	-110.0	98.5	10.5
7	ok 407		0.13	3.60e-02	3.28e-02	5.7	5.7	3.9	3.9	-80.3	7.4	-36.5	-151.6	-77.8	32.9
7	ok 408		0.13	1.63e-02	3.22e-02	5.7	5.7	3.9	3.9	-51.1	-6.4	65.6	-14.0	-29.9	-34.0
...															
7	ok 415		0.13	3.70e-02	1.90e-02	5.7	5.7	3.9	3.9	-21.7	-33.0	-29.2	102.8	104.0	61.4
M_S			x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										-98.46	-33.00	-36.54	-151.59	-77.80	-33.95
			0.13	0.06	0.03	5.65	5.65	3.93	3.93	38.75	19.29	65.58	187.78	137.27	81.14
M_S	Nodo		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 411		0.13	8.63e-02	1.41e-02	5.7	5.7	3.9	3.9	21.6	11.6	39.0	211.1	-34.7	21.7
8	ok 412		0.13	8.96e-02	1.58e-02	5.7	5.7	3.9	3.9	-22.6	-10.7	30.8	-4.9	-5.7	-10.2
8	ok 413		0.13	3.58e-02	1.68e-02	5.7	5.7	3.9	3.9	23.5	0.6	-35.4	142.8	40.2	-24.4
...															
8	ok 435		0.13	2.61e-02	1.79e-02	5.7	5.7	3.9	3.9	-25.9	-28.3	-22.1	-69.6	60.3	18.4
M_S			x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										-38.92	-31.63	-41.60	-261.45	-59.10	-33.98
			0.13	0.10	0.02	5.65	5.65	3.93	3.93	39.32	12.81	46.10	406.84	94.71	43.80
M_S	Nodo		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										daN/cm	daN/cm	daN/cm	daN	daN	daN
9	ok 431		0.13	3.88e-02	1.91e-02	5.7	5.7	3.9	3.9	20.6	1.8	-36.3	125.4	-24.2	19.1
9	ok 432		0.13	3.37e-02	1.29e-02	5.7	5.7	3.9	3.9	21.4	18.7	-36.3	136.9	73.4	-12.7
9	ok 433		0.13	1.50e-02	2.04e-02	5.7	5.7	3.9	3.9	6.5	2.6	65.9	31.5	36.2	-6.6
...															
9	ok 440		0.13	6.22e-02	1.38e-02	5.7	5.7	3.9	3.9	14.2	-26.4	-28.7	-174.9	-106.0	-99.9
M_S			x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										-95.44	-29.89	-36.31	-174.86	-106.00	-99.92
			0.13	0.06	0.03	5.65	5.65	3.93	3.93	34.11	18.70	65.89	154.50	94.84	19.08
M_S	Nodo		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										daN/cm	daN/cm	daN/cm	daN	daN	daN
10	ok 436		0.13	9.27e-02	3.32e-02	5.7	5.7	3.9	3.9	-79.3	-6.2	-46.1	268.4	58.7	-5.3
10	ok 437		0.13	9.40e-02	3.13e-02	5.7	5.7	3.9	3.9	-71.3	12.5	-46.1	270.1	73.4	-14.2
10	ok 438		0.13	2.86e-02	2.33e-02	5.7	5.7	3.9	3.9	-48.1	0.2	40.6	47.4	35.3	57.6
...															
10	ok 520		0.13	1.96e-02	1.30e-02	5.7	5.7	3.9	3.9	-13.0	-8.7	28.4	-11.8	-43.9	-17.5
M_S			x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										-79.27	-44.59	-46.07	-430.40	-112.11	-83.10
			0.13	0.12	0.03	5.65	5.65	3.93	3.93	31.94	23.12	40.56	465.35	117.22	72.96
M_S	Nodo		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										daN/cm	daN/cm	daN/cm	daN	daN	daN
12	ok 521		0.17	1.19e-02	0.2	5.7	5.7	3.9	3.9	-473.6	-51.6	96.4	-9.1	-10.1	-15.8
12	ok 523		0.17	3.71e-02	0.1	5.7	5.7	3.9	3.9	-293.6	-28.6	-34.4	53.3	7.0	14.6
12	ok 526		0.17	8.42e-03	0.2	5.7	5.7	3.9	3.9	-476.9	-79.4	96.4	-8.3	2.1	-13.0
...															
12	ok 1806		0.17	9.16e-03	4.37e-02	5.7	5.7	3.9	3.9	-107.0	-27.8	-19.5	-7.7	-4.1	-9.5
M_S			x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										-476.88	-79.42	-127.97	-429.57	-123.90	-279.22
			0.17	0.21	0.20	5.65	5.65	3.93	3.93	-48.43	16.77	104.10	125.77	52.88	98.51
M_S	Nodo		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
										daN/cm	daN/cm	daN/cm	daN	daN	daN
13	ok 166		0.17	1.64e-02	4.45e-02	5.7	5.7	3.9	3.9	-79.9	11.8	62.5	3.8	41.4	-3.8
13	ok 167		0.17	7.94e-03	3.27e-02	5.7	5.7	3.9	3.9	-44.5	-4.2	54.2	-4.8	2.9	21.1
13	ok 168		0.17	8.34e-03	5.93e-02	5.7	5.7	3.9	3.9	-148.4	-2.1	21.4	-16.2	-0.3	-4.9
...															
13	ok 1712		0.17	1.53e-02	4.61e-02	5.7	5.7	3.9	3.9	-100.0	7.5	29.0	8.2	-36.0	-7.6
M_S			x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo

										-480.75	-81.02	-146.86	-76.91	-38.20	-27.21
		0.17	0.06	0.20	5.65	5.65	3.93	3.93		345.92	168.65	118.56	44.07	60.39	31.63
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
14	ok 211	0.17	1.80e-02	3.41e-02	5.7	5.7	3.9	3.9	-47.7	26.2	63.6	15.1	1.3	9.6	
14	ok 212	0.17	2.26e-02	2.90e-02	5.7	5.7	3.9	3.9	-31.6	1.1	37.9	16.5	-39.0	-5.6	
14	ok 213	0.17	1.58e-02	4.10e-02	5.7	5.7	3.9	3.9	-53.2	-20.1	63.6	14.5	-4.4	0.7	
...															
14	ok 6226	0.17	4.88e-02	0.1	5.7	5.7	3.9	3.9	335.3	26.8	-70.6	-21.9	-10.7	-60.1	
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
		0.17	0.05	0.14	5.65	5.65	3.93	3.93	-348.89	-36.81	-70.61	-22.19	-39.04	-62.92	
									340.34	68.81	63.64	84.06	9.41	15.26	
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
15	ok 614	0.17	2.01e-02	4.35e-02	5.7	5.7	3.9	3.9	-89.0	-22.3	-43.3	-9.8	-55.1	-9.8	
15	ok 615	0.17	1.12e-02	3.22e-02	5.7	5.7	3.9	3.9	-32.4	-11.0	-55.0	21.8	-6.7	10.0	
15	ok 616	0.17	9.37e-03	5.08e-02	5.7	5.7	3.9	3.9	-104.1	-14.0	-53.3	6.3	-14.5	-7.3	
...															
15	ok 993	0.17	1.63e-02	5.82e-02	5.7	5.7	3.9	3.9	-136.3	-12.0	40.4	20.8	21.8	21.5	
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
		0.17	0.15	0.17	5.65	5.65	3.93	3.93	-420.20	-53.01	-66.98	-245.56	-72.99	-34.27	
									-32.41	25.81	84.10	217.77	45.24	56.08	
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
16	ok 651	0.17	3.65e-02	6.60e-02	5.7	5.7	3.9	3.9	-168.8	-15.8	5.4	-94.2	17.5	-13.6	
16	ok 652	0.17	3.72e-02	8.19e-02	5.7	5.7	3.9	3.9	-165.5	11.4	5.4	-94.6	9.9	9.1	
16	ok 653	0.17	3.77e-02	9.98e-02	5.7	5.7	3.9	3.9	-255.2	0.6	5.4	-72.6	12.1	8.2	
...															
16	ok 672	0.17	0.1	5.54e-02	5.7	5.7	3.9	3.9	34.7	-94.4	21.2	13.3	232.4	-16.4	
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
		0.17	0.29	0.15	5.65	5.65	3.93	3.93	-378.79	-94.45	-27.67	-100.10	-186.10	-240.21	
									48.57	33.29	41.79	120.36	345.33	113.52	
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
17	ok 651	0.17	1.57e-02	6.66e-02	5.7	5.7	3.9	3.9	-168.5	-14.2	16.9	-50.7	-6.4	15.8	
17	ok 652	0.17	2.09e-02	8.38e-02	5.7	5.7	3.9	3.9	-211.6	-11.9	23.2	-58.6	-14.1	-24.5	
17	ok 655	0.17	2.60e-02	0.1	5.7	5.7	3.9	3.9	-269.5	-12.3	35.5	89.5	14.7	4.3	
...															
17	ok 687	0.17	8.65e-02	0.1	5.7	5.7	3.9	3.9	-318.7	-106.7	-18.0	-3.3	-84.7	-13.0	
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
		0.17	0.18	0.14	5.65	5.65	3.93	3.93	-350.63	-106.70	-42.93	-96.92	-84.72	-46.50	
									-6.92	7.13	44.19	415.50	127.34	145.88	
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
18	ok 663	0.17	4.60e-02	0.1	5.7	5.7	3.9	3.9	-261.0	-7.2	13.8	-126.7	-52.1	32.9	
18	ok 664	0.17	2.70e-02	0.1	5.7	5.7	3.9	3.9	-263.4	-26.7	13.8	-121.3	-8.0	-9.8	
18	ok 666	0.17	7.47e-02	0.1	5.7	5.7	3.9	3.9	-333.7	-11.0	38.7	-200.5	-60.5	30.4	
...															
18	ok 702	0.17	7.91e-02	0.1	5.7	5.7	3.9	3.9	-256.4	-75.7	-12.0	-68.2	78.6	78.7	
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
		0.18	0.98	0.15	6.17	5.90	4.44	4.17	-375.21	-75.73	-27.98	-2055.80	-587.45	-872.87	
									2.04	36.78	39.19	333.61	258.34	688.01	
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
19	ok 683	0.17	2.35e-02	6.59e-02	5.7	5.7	3.9	3.9	-168.6	-13.0	-1.2	43.4	-23.8	11.0	
19	ok 684	0.17	1.65e-02	5.03e-02	5.7	5.7	3.9	3.9	-109.9	-13.9	-40.0	7.3	4.4	10.8	
19	ok 685	0.17	2.66e-02	8.75e-02	5.7	5.7	3.9	3.9	-220.3	-9.1	27.2	37.9	-20.6	-10.4	
...															
19	ok 712	0.17	3.67e-02	5.04e-02	5.7	5.7	3.9	3.9	-91.2	19.3	14.1	8.2	57.2	3.8	
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
									daN/cm	daN/cm	daN/cm	daN	daN	daN	
									-291.48	-111.18	-40.05	-52.04	-168.30	-53.06	

		0.17	0.10	0.13	5.65	5.65	3.93	3.93	250.73	74.14	76.47	43.36	57.16	41.31
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
20	ok 256	0.17	1.71e-02	3.98e-02	5.7	5.7	3.9	3.9	-32.5	18.8	31.0	-25.0	-7.3	-11.5
20	ok 257	0.17	2.22e-02	3.44e-02	5.7	5.7	3.9	3.9	-34.4	2.8	31.0	-22.0	18.6	-4.0
20	ok 258	0.17	2.31e-02	4.73e-02	5.7	5.7	3.9	3.9	-107.0	-1.2	-10.7	-17.1	34.3	16.3
...														
20	ok 717	0.17	0.1	8.52e-02	5.7	5.7	3.9	3.9	229.8	34.5	7.0	164.6	-52.8	84.9
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.15	0.12	5.65	5.65	3.93	3.93	-299.76	-29.05	-10.70	-51.97	-81.16	-39.95
		0.17			5.65	5.65	3.93	3.93	229.85	34.49	31.04	169.24	34.30	94.70
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
21	ok 718	0.17	0.3	0.2	5.7	5.7	3.9	3.9	-144.0	-36.1	57.6	463.5	227.1	-173.0
21	ok 720	0.17	9.96e-02	0.1	5.7	5.7	3.9	3.9	-360.2	-54.8	-64.9	-200.3	-15.3	18.0
21	ok 723	0.17	9.95e-02	0.1	5.7	5.7	3.9	3.9	-356.3	-22.0	-64.9	-199.6	-8.7	21.3
...														
21	ok 6225	0.17	0.2	0.2	5.7	5.7	3.9	3.9	-383.0	-33.7	102.4	-89.2	29.5	327.8
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.57	0.16	5.65	5.65	3.93	3.93	-382.98	-54.78	-104.34	-352.68	-157.51	-350.76
		0.17			5.65	5.65	3.93	3.93	116.62	33.36	102.36	1249.55	304.16	327.80
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
22	ok 745	0.17	0.1	5.95e-02	5.7	5.7	3.9	3.9	-91.1	-32.4	-43.6	31.4	272.8	11.1
22	ok 746	0.17	2.84e-02	5.01e-02	5.7	5.7	3.9	3.9	-81.8	-11.0	-71.6	1.4	21.4	3.6
22	ok 747	0.17	6.11e-02	5.08e-02	5.7	5.7	3.9	3.9	-45.3	27.9	81.4	-1.2	143.7	-19.9
...														
22	ok 896	0.17	6.19e-02	0.1	5.7	5.7	3.9	3.9	-275.0	-27.1	-38.8	122.1	-21.5	27.9
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.25	0.16	5.65	5.65	3.93	3.93	-409.36	-234.02	-71.64	-156.73	-226.38	-55.46
		0.17			5.65	5.65	3.93	3.93	-32.35	69.97	81.37	124.90	272.75	103.81
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
23	ok 321	0.13	1.66e-02	2.70e-02	5.7	5.7	3.9	3.9	-72.7	8.9	22.7	29.4	-14.1	15.1
23	ok 322	0.13	2.42e-02	2.10e-02	5.7	5.7	3.9	3.9	-53.9	-10.0	24.1	0.7	-4.4	-61.1
23	ok 323	0.13	9.86e-03	3.94e-02	5.7	5.7	3.9	3.9	-73.4	16.3	22.9	30.6	-4.5	11.5
...														
23	ok 926	0.13	3.40e-02	4.00e-02	5.7	5.7	3.9	3.9	-97.7	6.0	-56.6	-18.6	72.7	-76.7
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.13	0.19	0.11	5.65	5.65	3.93	3.93	-343.53	-63.70	-56.58	-87.95	-63.36	-76.66
		0.13			5.65	5.65	3.93	3.93	-0.35	25.56	43.29	219.44	72.74	62.67
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
24	ok 296	0.13	2.36e-02	4.16e-02	5.7	5.7	3.9	3.9	-64.2	41.3	53.2	10.1	-65.1	6.3
24	ok 297	0.13	1.29e-02	3.35e-02	5.7	5.7	3.9	3.9	-70.6	-12.4	53.2	16.7	-10.6	-34.9
24	ok 298	0.13	9.19e-03	5.71e-02	5.7	5.7	3.9	3.9	-152.0	-21.8	44.8	19.1	-28.1	-0.2
...														
24	ok 2031	0.13	2.29e-02	9.69e-02	5.7	5.7	3.9	3.9	-191.6	-66.8	-153.9	14.5	-16.0	19.2
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.13	0.08	0.10	5.65	5.65	3.93	3.93	-284.76	-76.23	-153.87	-82.19	-121.52	-52.32
		0.13			5.65	5.65	3.93	3.93	148.06	50.39	138.59	286.67	107.37	97.34
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
25	ok 81	0.17	9.43e-02	3.95e-02	5.7	5.7	3.9	3.9	83.2	31.6	32.1	7.9	-213.9	23.7
25	ok 82	0.17	1.65e-02	4.10e-02	5.7	5.7	3.9	3.9	-87.8	-18.5	-36.9	-37.2	6.9	-14.6
25	ok 83	0.17	3.49e-02	4.43e-02	5.7	5.7	3.9	3.9	-83.8	-4.8	-55.3	-28.7	-41.2	7.4
...														
25	ok 1889	0.17	2.48e-02	4.66e-02	5.7	5.7	3.9	3.9	-98.7	17.5	-51.9	14.2	18.2	29.7
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.09	0.09	5.65	5.65	3.93	3.93	-209.02	-94.85	-55.26	-141.93	-213.88	-75.32
		0.17			5.65	5.65	3.93	3.93	138.74	64.65	42.39	300.22	130.57	54.70

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
26	ok 974	0.17	1.55e-02	5.76e-02	5.7	5.7	3.9	3.9	-131.9	-31.4	-40.9	-8.1	-14.6	5.0
26	ok 975	0.17	1.58e-02	5.47e-02	5.7	5.7	3.9	3.9	-127.7	3.5	-40.9	-8.1	-15.1	5.5
26	ok 976	0.17	1.58e-02	4.13e-02	5.7	5.7	3.9	3.9	-94.3	12.9	-35.8	-20.3	-5.6	-8.4
...														
26	ok 2024	0.17	1.01e-02	4.57e-02	5.7	5.7	3.9	3.9	-48.2	-43.8	-67.9	-1.7	-8.4	-5.8
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.11	0.11	5.65	5.65	3.93	3.93	-242.91	-58.18	-85.36	-115.22	-177.28	-76.57
		0.17	0.11	0.11	5.65	5.65	3.93	3.93	-33.18	25.26	100.55	219.86	68.14	83.93
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
27	ok 750	0.17	4.16e-02	3.94e-02	5.7	5.7	3.9	3.9	-69.6	12.7	51.8	105.0	-16.2	-3.1
27	ok 751	0.17	4.83e-02	4.39e-02	5.7	5.7	3.9	3.9	-53.4	-25.6	-63.7	-38.4	-95.1	20.9
27	ok 752	0.17	3.90e-02	4.82e-02	5.7	5.7	3.9	3.9	-74.8	8.6	61.7	-50.5	-32.6	16.4
...														
27	ok 2220	0.17	2.94e-02	5.94e-02	5.7	5.7	3.9	3.9	-151.1	-21.3	-10.8	-116.7	-19.7	-10.3
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.09	0.10	5.65	5.65	3.93	3.93	-190.54	-35.48	-141.80	-128.34	-124.04	-45.31
		0.17	0.09	0.10	5.65	5.65	3.93	3.93	-22.70	15.28	134.04	113.38	170.00	37.01
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
28	ok 1064	0.17	5.58e-02	3.22e-02	5.7	5.7	3.9	3.9	-73.3	-29.4	4.1	4.1	43.5	-42.6
28	ok 1065	0.17	2.13e-02	2.68e-02	5.7	5.7	3.9	3.9	-68.3	11.7	4.1	-1.6	-4.1	-50.6
28	ok 1066	0.17	5.20e-02	3.27e-02	5.7	5.7	3.9	3.9	-82.8	-7.0	-8.0	9.4	114.1	17.8
...														
28	ok 2060	0.17	8.45e-03	0.1	5.7	5.7	3.9	3.9	-333.4	-8.4	-19.8	-32.6	0.6	18.7
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.06	0.14	5.65	5.65	3.93	3.93	-349.64	-54.00	-29.71	-34.06	-6.91	-50.58
		0.17	0.06	0.14	5.65	5.65	3.93	3.93	-68.34	11.68	56.51	75.77	116.84	44.54
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
29	ok 1104	0.17	2.19e-02	0.2	5.7	5.7	3.9	3.9	-382.7	-32.9	-40.5	84.2	-0.3	49.2
29	ok 1105	0.17	1.95e-02	0.1	5.7	5.7	3.9	3.9	-378.6	0.7	-40.5	84.7	4.0	-10.5
29	ok 1106	0.17	1.99e-02	0.1	5.7	5.7	3.9	3.9	-260.5	-20.2	5.0	27.8	5.1	1.6
...														
29	ok 2065	0.17	4.42e-03	0.2	5.7	5.7	3.9	3.9	-390.8	-69.9	42.8	-12.0	-2.1	-4.4
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.17	0.03	0.16	5.65	5.65	3.93	3.93	-414.07	-69.88	-59.73	-12.05	-31.25	-11.56
		0.17	0.03	0.16	5.65	5.65	3.93	3.93	-22.91	12.54	42.78	84.71	13.09	49.27
M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
30	ok 949	0.13	2.56e-02	8.77e-02	5.7	5.7	3.9	3.9	-228.8	-34.3	-93.4	113.0	42.6	23.1
30	ok 950	0.13	4.22e-02	8.81e-02	5.7	5.7	3.9	3.9	-229.8	-43.4	-93.4	108.8	7.5	182.8
30	ok 951	0.13	4.10e-02	5.94e-02	5.7	5.7	3.9	3.9	-183.0	0.2	-3.1	102.1	122.2	-21.5
...														
30	ok 2255	0.13	1.88e-02	4.98e-02	5.7	5.7	3.9	3.9	-133.3	13.7	57.4	32.3	22.7	-68.0
M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.13	0.14	0.10	5.65	5.65	3.93	3.93	-261.47	-130.78	-112.74	-564.89	-150.11	-164.03
		0.13	0.14	0.10	5.65	5.65	3.93	3.93	86.98	45.73	78.41	181.75	156.61	192.94
M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
433	ok 95	0.23	2.38e-02	2.55e-02	10.1	10.1	10.1	10.1	15.7	86.7	15.0	-57.0	80.4	53.4
433	ok 100	0.23	2.42e-02	2.53e-02	10.1	10.1	10.1	10.1	7.3	85.6	15.0	3.1	89.1	45.7
433	ok 105	0.23	1.62e-02	6.80e-03	10.1	10.1	10.1	10.1	-8.7	19.2	10.5	0.3	-64.3	21.8
...														
433	ok 6395	0.23	7.23e-02	1.38e-02	10.1	10.1	10.1	10.1	-22.3	7.0	-4.8	-55.6	-409.8	-58.9
M_G		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
		0.23	0.09	0.03	10.05	10.05	10.05	10.05	-36.11	-56.51	-53.64	-239.28	-441.70	-348.88
		0.23	0.09	0.03	10.05	10.05	10.05	10.05	47.92	86.67	39.12	211.49	347.54	86.94

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x daN/cm	N y daN/cm	N xy daN/cm	M x daN	M y daN	M xy daN
434	ok 9	0.23	1.35e-02	1.12e-02	10.1	10.1	10.1	10.1	36.8	14.5	-57.2	32.5	20.7	54.5
434	ok 10	0.23	4.76e-02	1.84e-02	10.1	10.1	10.1	10.1	21.2	32.9	-80.3	126.5	56.2	199.6
434	ok 15	0.23	6.93e-02	2.99e-02	10.1	10.1	10.1	10.1	-29.7	27.5	-80.9	365.7	84.8	163.0
...														
434	ok 6385	0.23	8.24e-02	2.97e-02	10.1	10.1	10.1	10.1	13.9	-18.2	-57.3	165.7	362.3	228.5
M_G		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									-225.07	-151.51	-80.86	-674.76	-803.41	-216.46
		0.23	0.16	0.09	10.05	10.05	10.05	10.05	101.96	37.67	-47.30	668.74	631.90	295.99

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

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:

pilastrati	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
1	0.03	0.15	0.03	38,38,132	mm	mm	mm	0,0,0
2	0.03	0.10	0.03	38,38,132	0.0	0.0	0.0	0,0,0
3	0.01	0.09	0.01	38,38,132	0.0	0.0	0.0	0,0,0
...								
6159	0.06	0.05	0.05	42,42,132	0.0	0.0	0.0	0,0,0
Setto	rRfck	rRfyk	rPfck		wR	wF	wP	
	0.58	0.80	0.58		0.24	0.20	0.17	
Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
6253	9.83e-03	0.02	0.01	52,44,132	mm	mm	mm	0,0,0
6254	0.01	0.02	0.02	39,39,131	0.0	0.0	0.0	0,0,0
6255	6.84e-03	0.03	7.16e-03	46,39,131	0.0	0.0	0.0	0,0,0
...								
6363	0.03	0.04	0.03	39,39,131	0.0	0.0	0.0	0,0,0
Guscio	rRfck	rRfyk	rPfck		wR	wF	wP	
	0.06	0.11	0.05		0.0	0.0	0.0	