

Committente / Identificativo progetto:

**COMUNE DI SESTO CALENDE
PIAZZA CESARE DA SESTO, 1
21018 SESTO CALENDE (VA)**

Logo Committente:



Oggetto:

**NUOVA MENSA SCOLASTICA
PRESSO SCUOLA PRIMARIA
UNGARETTI**

Immagine:



Progetto / Nome documento:

PROGETTO ESECUTIVO

**STRUTTURE
Relazione di calcolo
Fascicolo dei calcoli**

Numero progetto o documento:

8792 PESEC 200

Note:

CUP I85E22000400006

Impresa aggiudicataria:

IMPRESA VULCANO s.r.l.

**Via Marconi, 35 – Lonate Pozzolo (Va)
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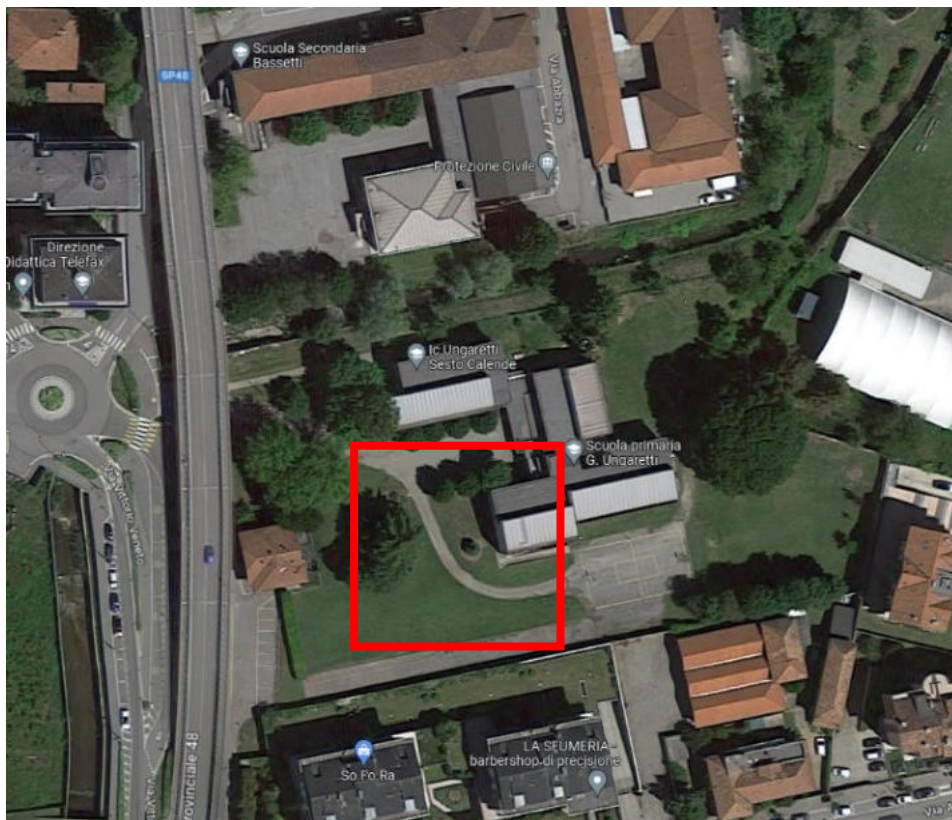
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RELAZIONE DI CALCOLO STRUTTURALE

Premessa

La presente relazione si riferisce al dimensionamento ed alla verifica degli elementi strutturali previsti nell'ambito dei lavori di esecuzione della nuova mensa scolastica da realizzarsi nell'area di pertinenza della scuola primaria "Ungaretti" sita in Via Vittorio Veneto, 34 a Sesto Calende (VA).



Vista aerea immobile oggetto d'intervento

Tale relazione di calcolo strutturale, in conformità al §10.1 del DM 17/01/18, è comprensiva di una descrizione generale dell'opera e dei criteri generali di analisi e verifica. Segue inoltre le indicazioni fornite al §10.2 del DM stesso per quanto concerne analisi e verifiche svolte con l'ausilio di codici di calcolo.

Ai fini delle verifiche sono state individuate le azioni che interessano il manufatto e le relative sollecitazioni sia nella fase statica che in quella sismica; per le sezioni maggiormente caratterizzanti le strutture, sono state riportate le verifiche di stabilità e di resistenza adottando il metodo semiprobabilistico degli stati limite.

Nella presente parte sono riportati i principali elementi di inquadramento del progetto esecutivo riguardante le strutture, in relazione agli strumenti urbanistici, al progetto architettonico, al progetto delle componenti tecnologiche in generale ed alle prestazioni attese dalla struttura.

Descrizione generale dell'opera

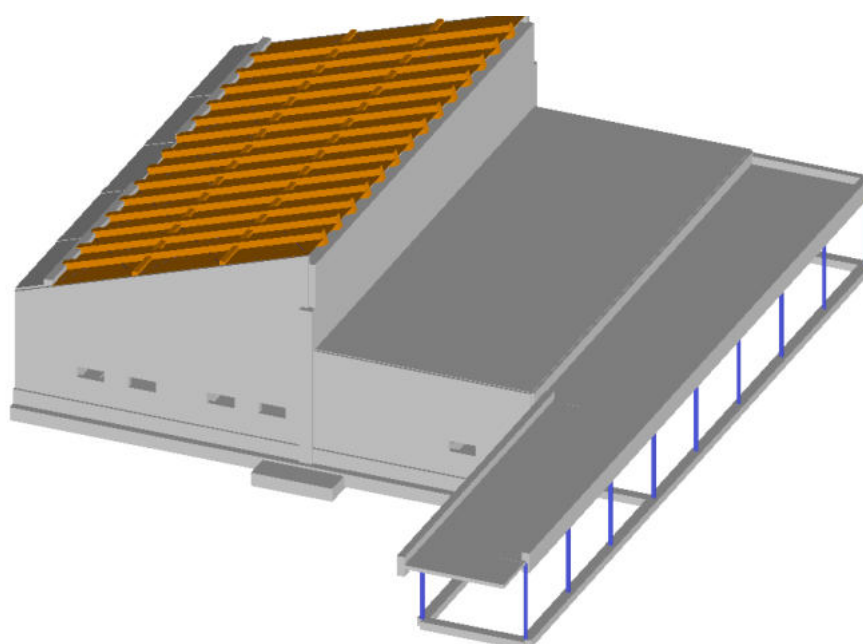
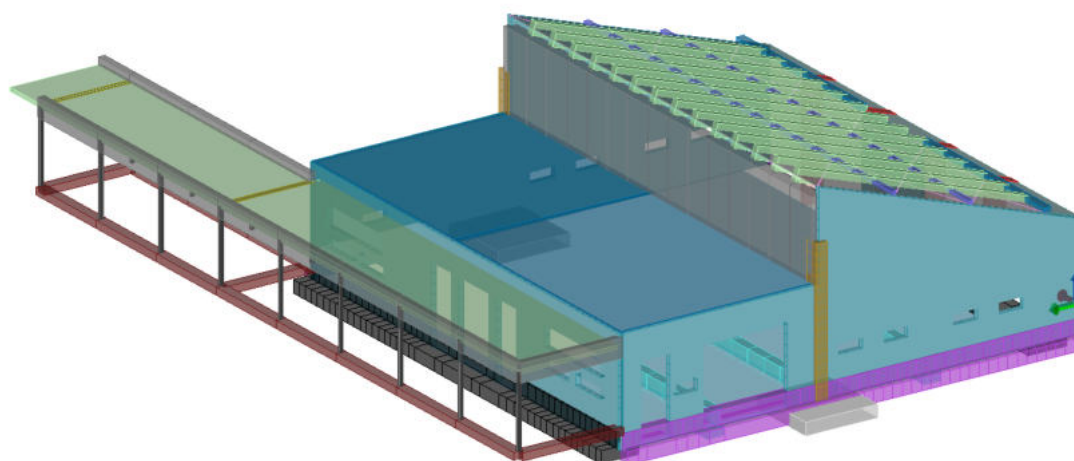
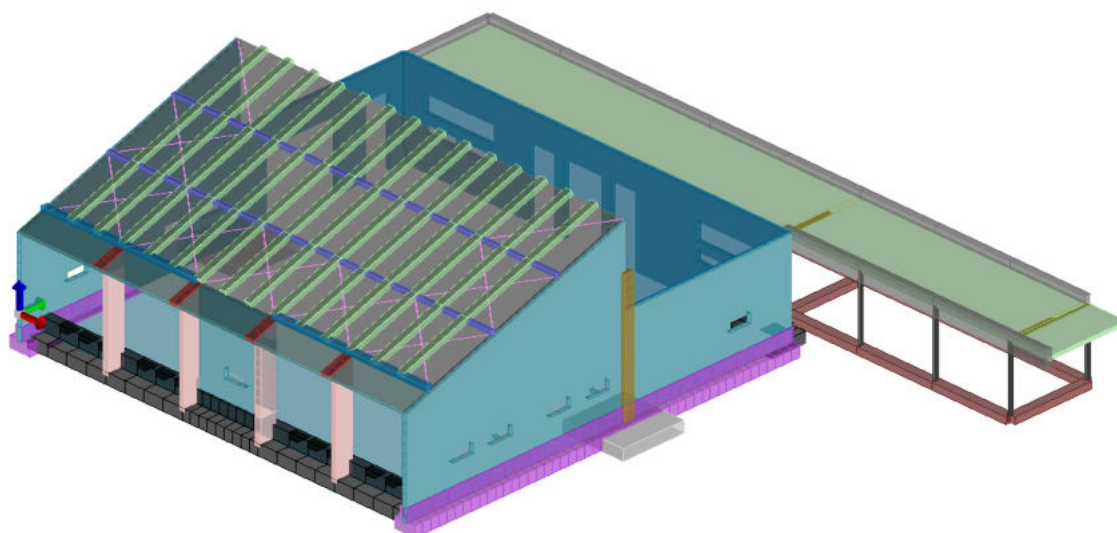
L'immobile in progetto si sviluppa in un corpo di fabbrica costituito da due volumi: uno ad altezza costante di 3 metri l'altro ad altezza variabile da 3.5 a 5 metri.

Differenti sono i materiali e la tecnologia di realizzazione della copertura: lastre prefabbricate tipo predalles per la parte bassa e legno per quella in pendenza.

Alle strutture verticali in elevazione, costituite da murature strutturali, è demandato il compito di resistere alle sollecitazioni statiche e sismiche.

Al fine di realizzare un'intercapedine ventilata sotto al pavimento del piano terra è stato eseguito un solaio in pannelli alveolari prefabbricati.

La regolarità strutturale nei confronti delle forze sismiche è presente in pianta ma, come evidente dagli schemi di modello strutturale mostrati nel seguito, non in altezza essendo la copertura dei due volumi impostata a quote differenti.



Descrizione generale dell'opera	
Fabbricato ad uso	
Ubicazione	Comune di SESTO CALENDE (VA) (Regione LOMBARDIA) Località SESTO CALENDE (VA) Longitudine 8.638, Latitudine 45.726
Numero di piani	Fuori terra: 1 Interrati: 0 le dimensioni dell'opera in pianta sono racchiuse in un rettangolo di 19,50 m x 19,30 m
Numero vani scale	0
Numero vani ascensore	0
Tipo di fondazione	CONTINUE

Principali caratteristiche della struttura	
Struttura regolare in pianta	SI'
Struttura regolare in altezza	NO
Classe di duttilità	NON DISSIPATIVA
Travi: ricalate o in spessore	NO
Pilastrì	SI
Pilastrì in falso	NO
Tipo di fondazione	SUPERFICIALI CONTINUE
Condizioni per cui è necessario considerare la componente verticale del sisma	NO

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
III	50.0	1.5	75.0

Fattore di struttura/comportamento
Il fattore di struttura adottato è 1,50

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. 17-01-2018
Progetto acciaio	D.M. 17-01-2018
Progetto legno	D.M. 17-01-2018
Progetto muratura	D.M. 17-01-2018
Azione sismica	
Norma applicata per l'azione sismica	D.M. 17-01-2018

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:

$K \cdot u = F$ dove K = matrice di rigidezza
 u = vettore spostamenti nodali
 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.

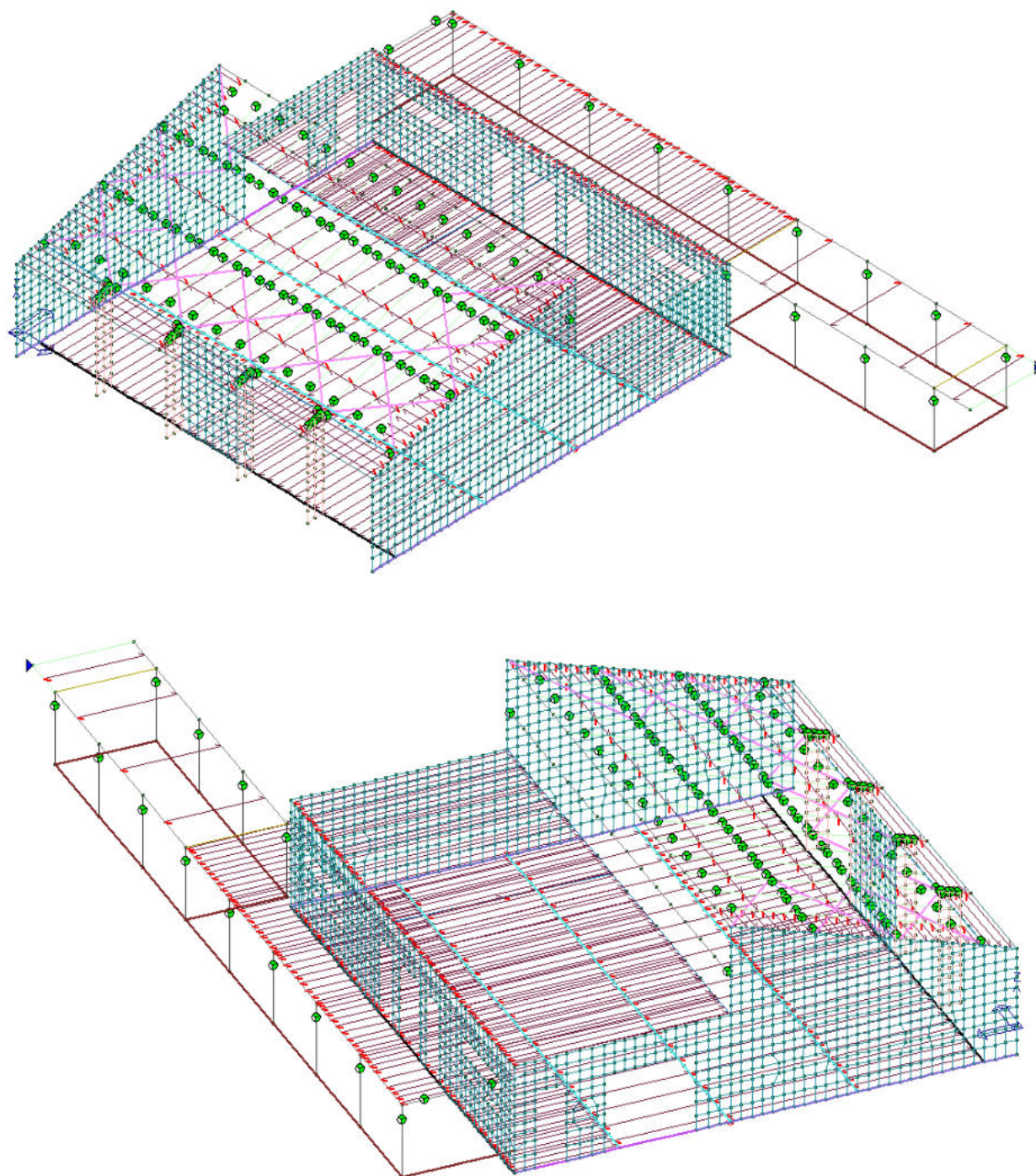
Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l'asse Z verticale ed orientato verso l'alto.

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 e relativi sottoparagrafi delle NTC-18, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità



Tipo di analisi strutturale

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
Analisi lineare	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 2022-10-198)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza dsi5371

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: https://www.2si.it/it/prodotti/affidabilita/

Modellazione della geometria e proprietà meccaniche:	
nodi	2125
elementi D2 (per aste, travi, pilastri...)	611
elementi D3 (per pareti, platee, gusci...)	1649
elementi solaio	58
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	0.00
Xmax =	3139.00
Ymin =	0.00
Ymax =	2323.00
Zmin =	-113.70
Zmax =	680.00
Strutture verticali:	
Elementi di tipo asta	SI
Pilastri	SI
Pareti	SI
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	SI
Travi	SI
Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	SI
Solai senza la proprietà piano rigido	SI

Tipo di vincoli:	
Nodi vincolati rigidamente	SI
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	SI
Fondazioni di tipo trave	SI
Fondazioni di tipo platea	NO
Fondazioni con elementi solidi	NO

Modellazione delle azioni

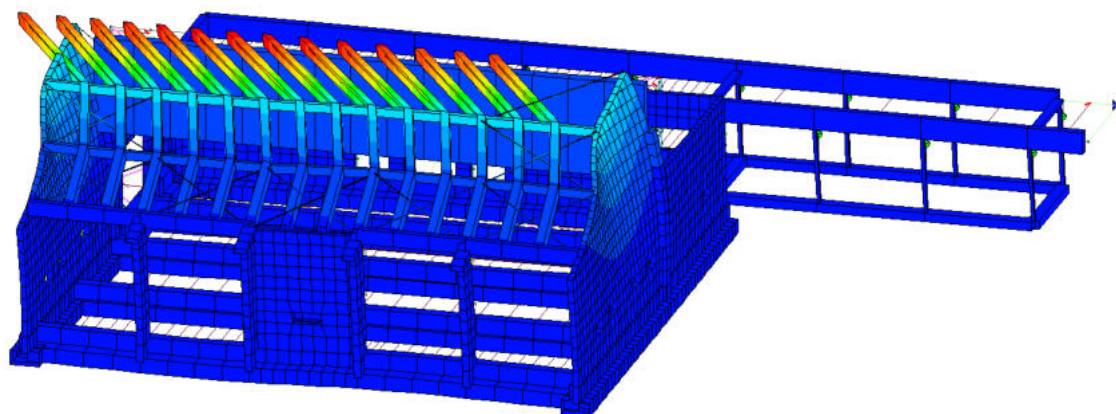
Si veda il capitolo **“Schematizzazione dei casi di carico”** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte **“2.6. Azioni di progetto sulla costruzione”**.

Combinazioni e/o percorsi di carico

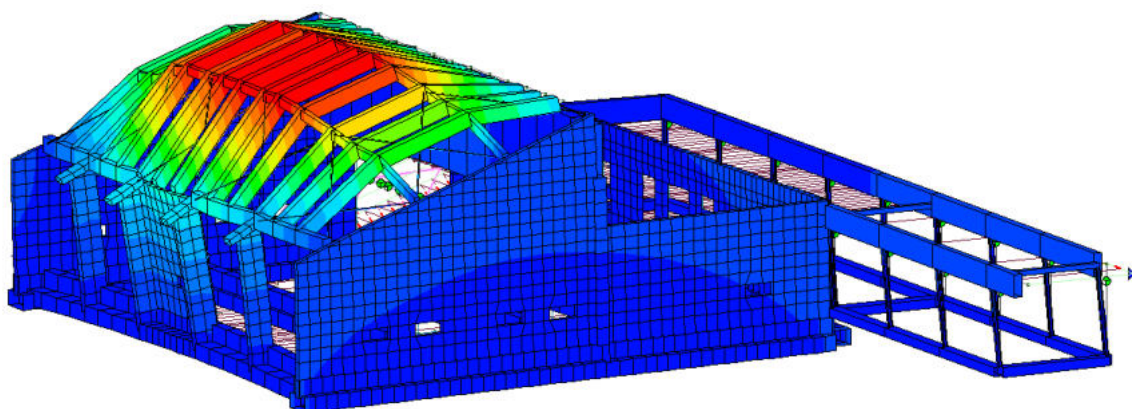
Si veda il capitolo **“Definizione delle combinazioni”** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

Combinazioni dei casi di carico	
APPROCCIO PROGETTUALE	Approccio 2
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

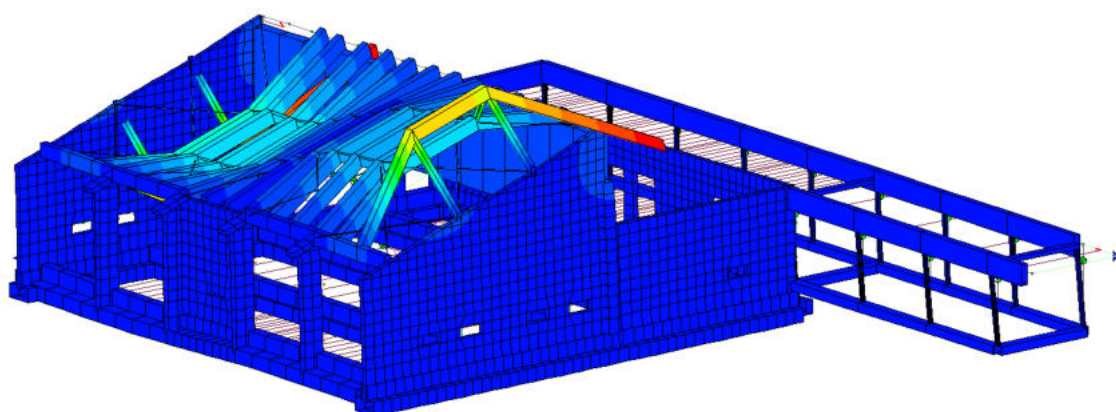
Principali risultati
I risultati devono costituire una sintesi completa ed efficace, presentata in modo da riassumere il comportamento della struttura, per ogni tipo di analisi svolta. Nella presente relazione di calcolo sono riportati i seguenti risultati che il progettista ritiene di interesse per la descrizione e la comprensione del/i modello/i e del comportamento della struttura: per l'analisi modale: periodi dei modi di vibrare della struttura



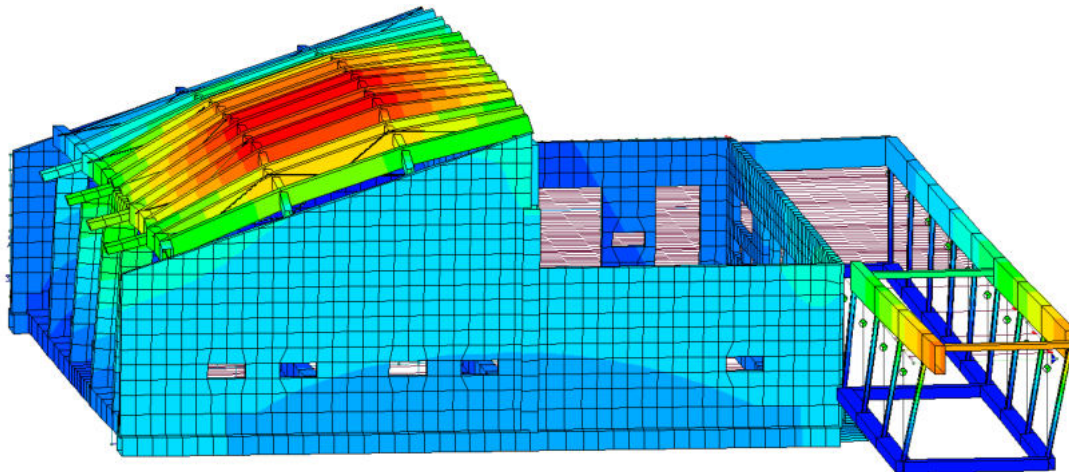
Secondo modo di vibrare – $T_2 = 0,339$ s



Terzo modo di vibrare – $T_3 = 0,246$ s



Sesto modo di vibrare – $T_6 = 0,233$ s



Trentunesimo modo di vibrare – $T_{31} = 0,207$ s

- masse eccitate dai singoli modi

Con sisma in direzione X nel secondo modo di vibrare viene eccitata circa il 27,8% della massa, nel sesto modo il 8,7%

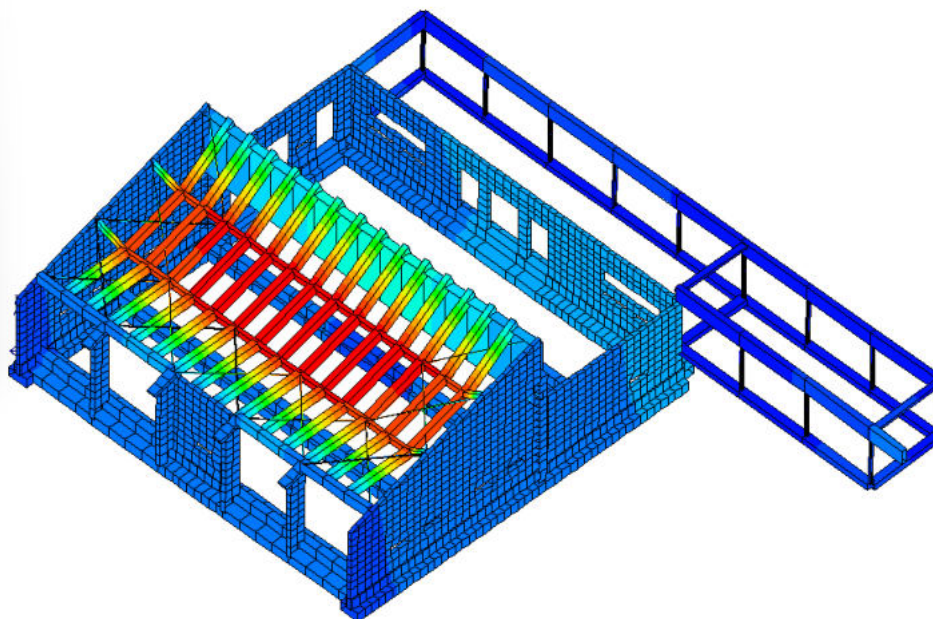
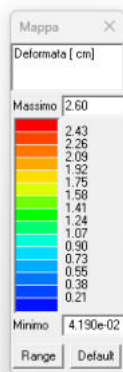
Con sisma in direzione Y nel trentunesimo modo di vibrare viene eccitata circa il 37,3% della massa, nel terzo il 17,5%

- massa eccitata totale

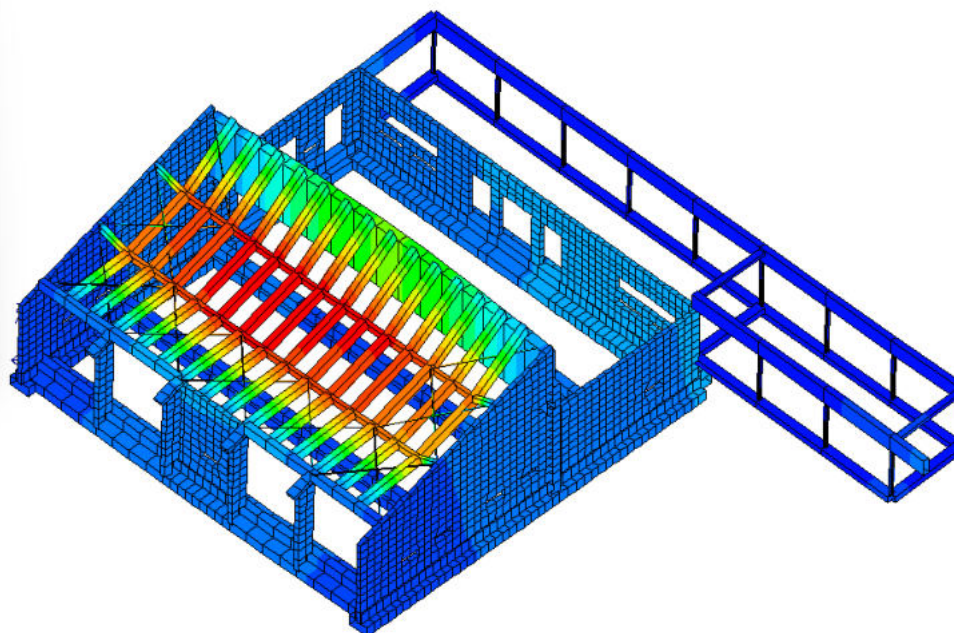
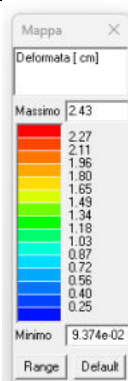
Avendo considerato in totale 130 modi di vibrare si è eccitata circa l'99,89% in direzione X e il 99,95% in direzione Y della massa globale della struttura

deformate e sollecitazioni:

- spostamenti e rotazioni dei singoli nodi della struttura

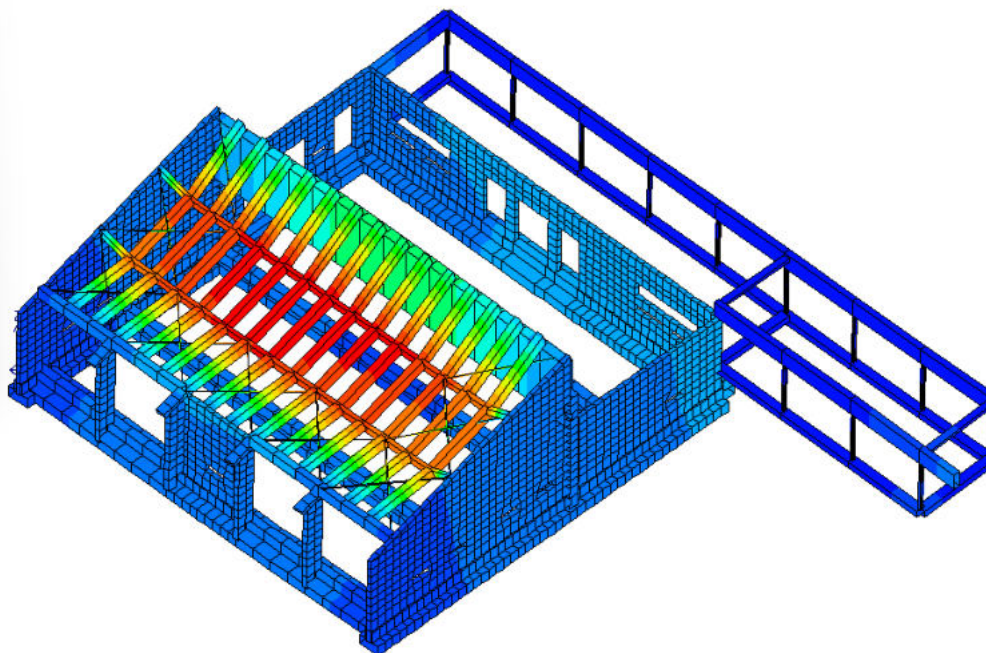
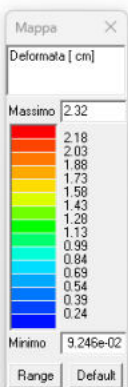


Spostamenti allo SLE – Spostamento massimo 2,60 cm



Spostamenti allo SLV – Spostamento massimo 2,43 cm

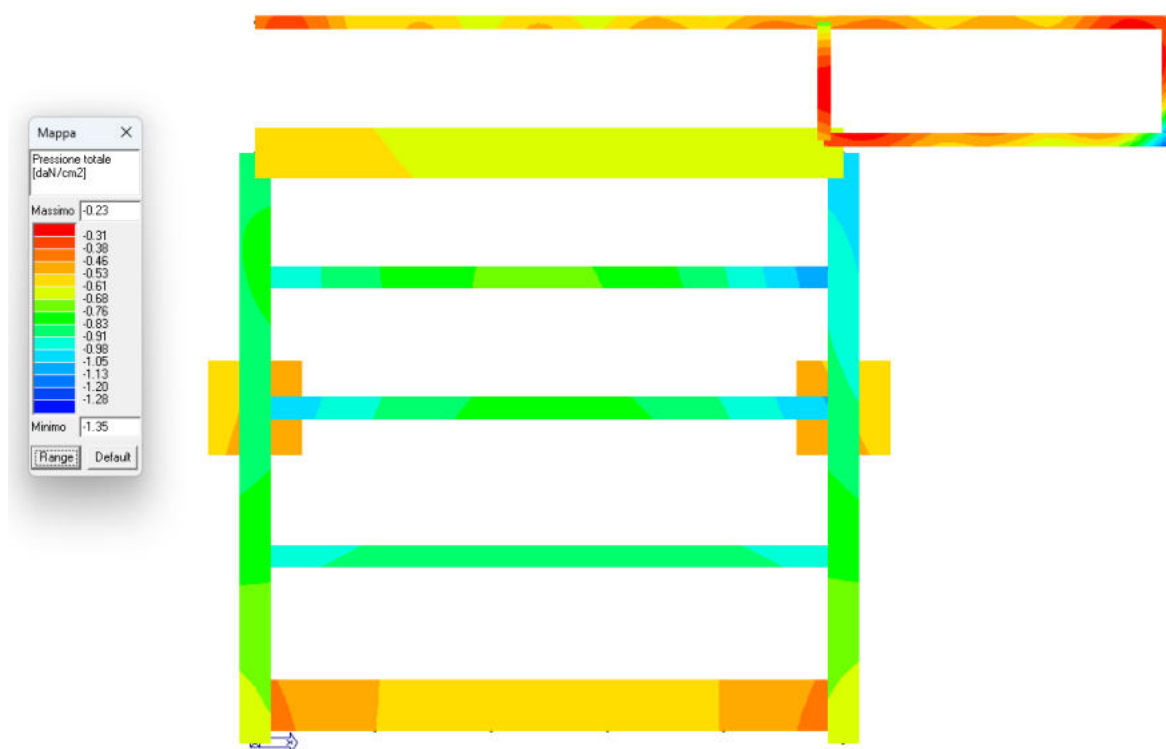
Lo spostamento massimo in direzione X è pari a 1,30 cm, mentre in direzione Y è pari a 1,00 cm



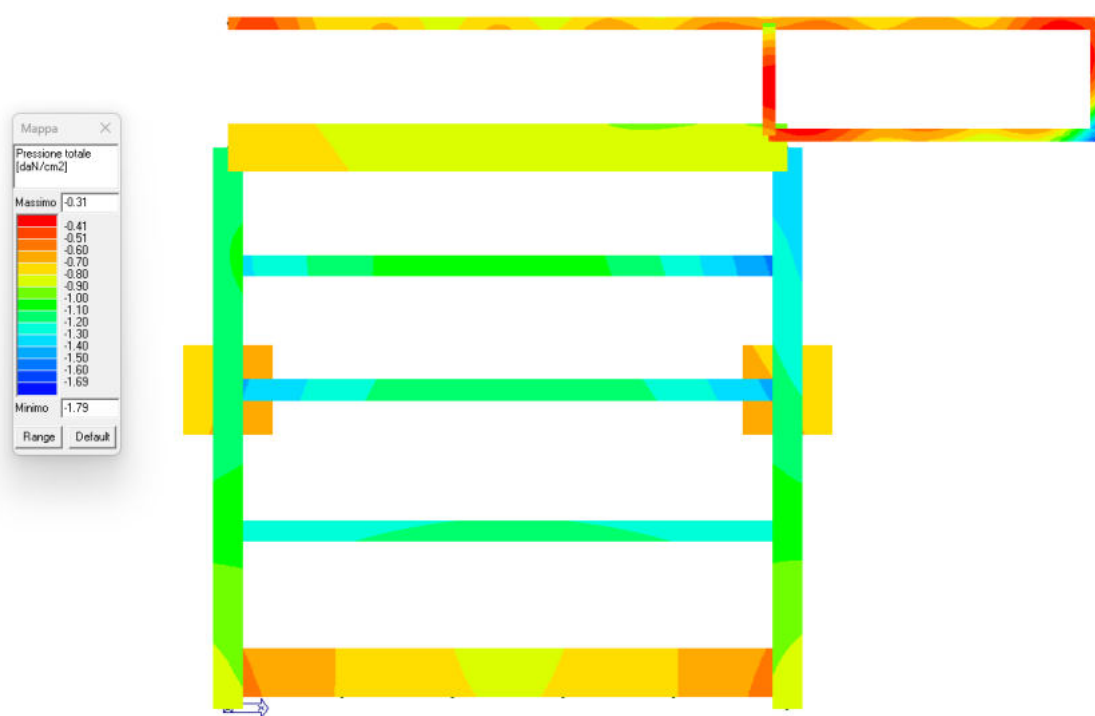
Spostamenti allo SLD – Spostamento massimo 2,32 cm

Lo spostamento massimo in direzione X è pari a 0,95 cm, mentre in direzione Y è pari a 0,74 cm

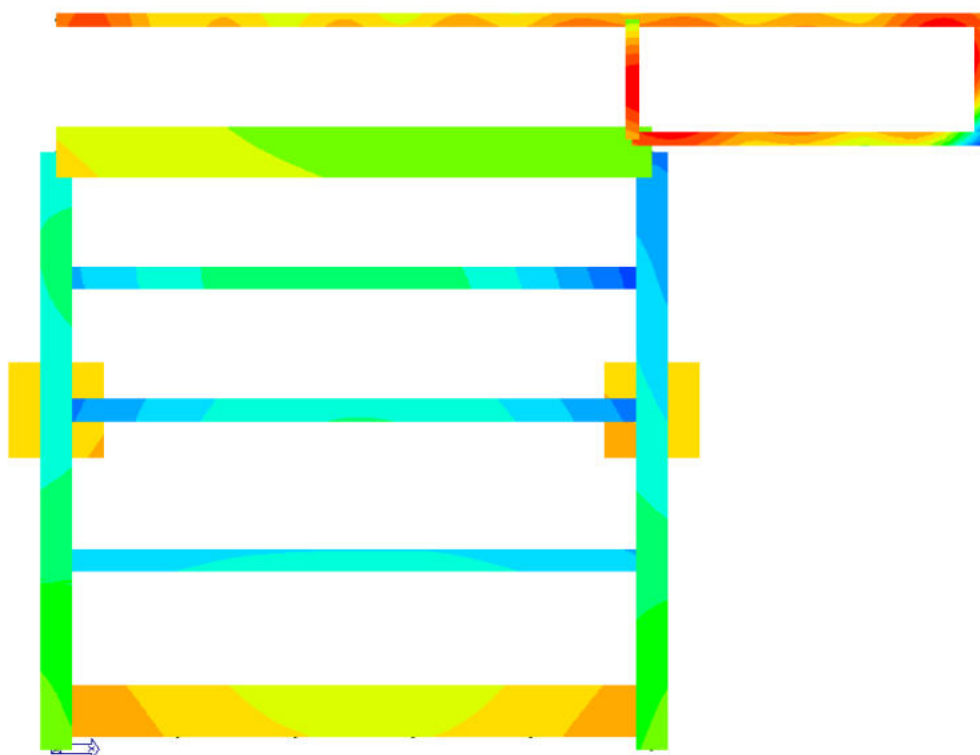
- pressioni sul terreno (nel caso siano presenti elementi di fondazione)



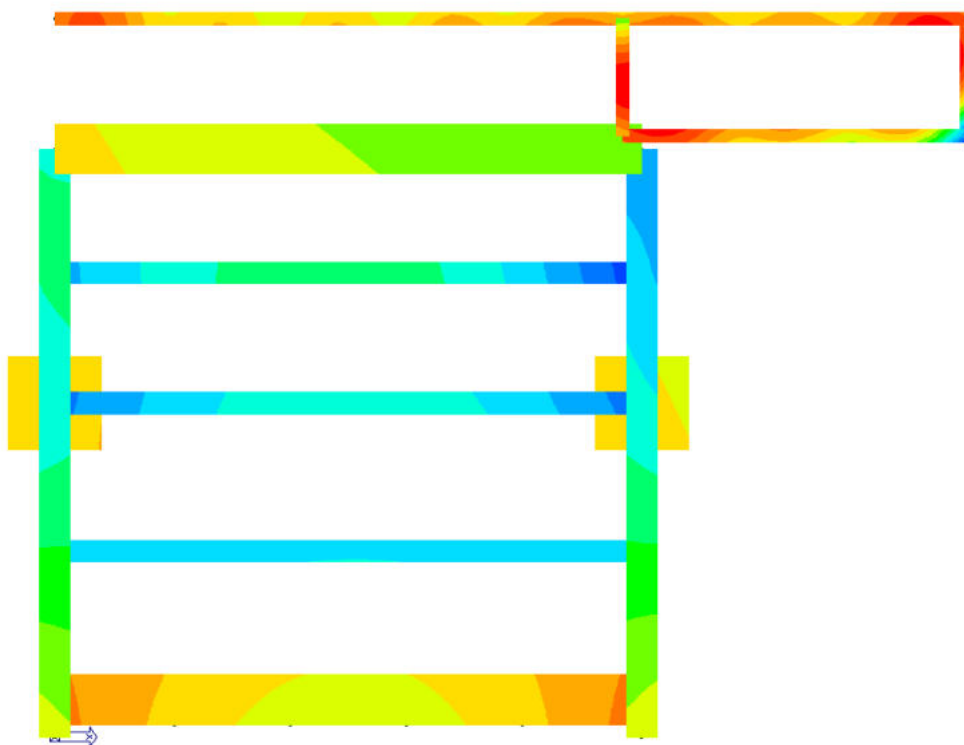
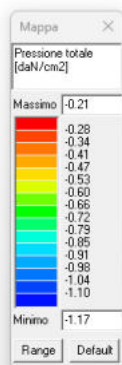
Pressioni terreno allo SLE – Combinazione 130



Pressioni terreno allo SLU – Combinazione 38

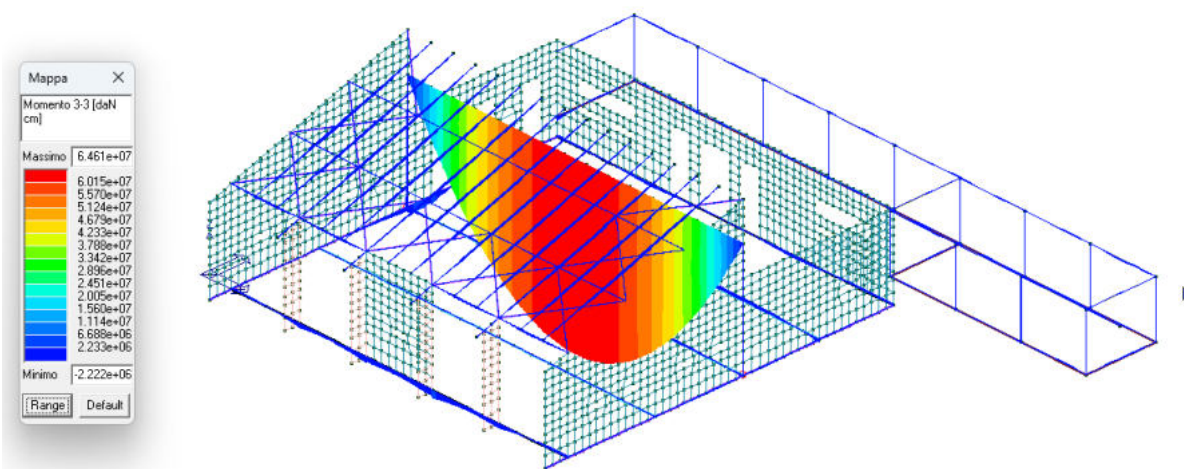


Pressioni terreno allo SLV – Combinazione 69

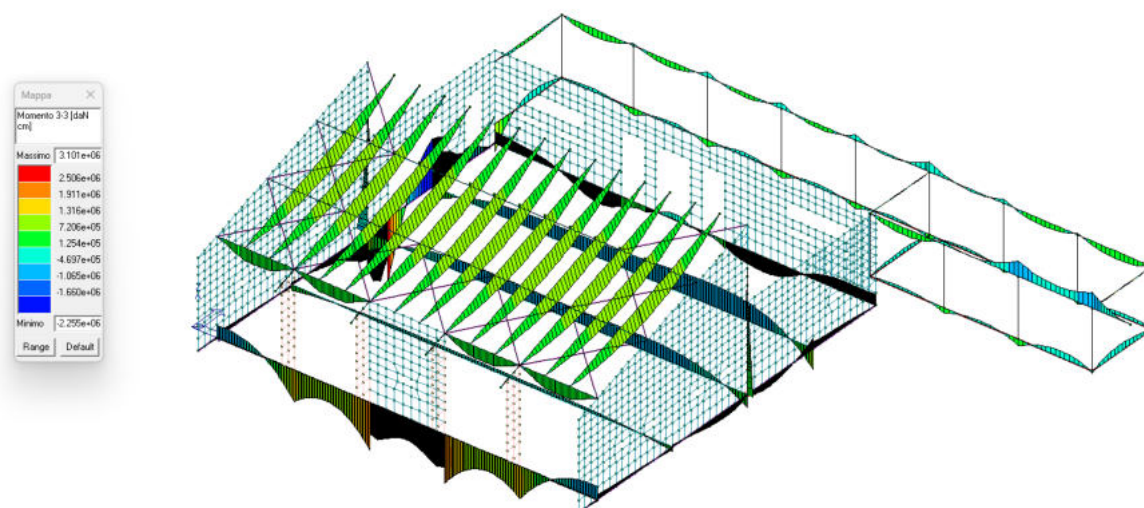


Pressioni terreno allo SLD – Combinazione 108

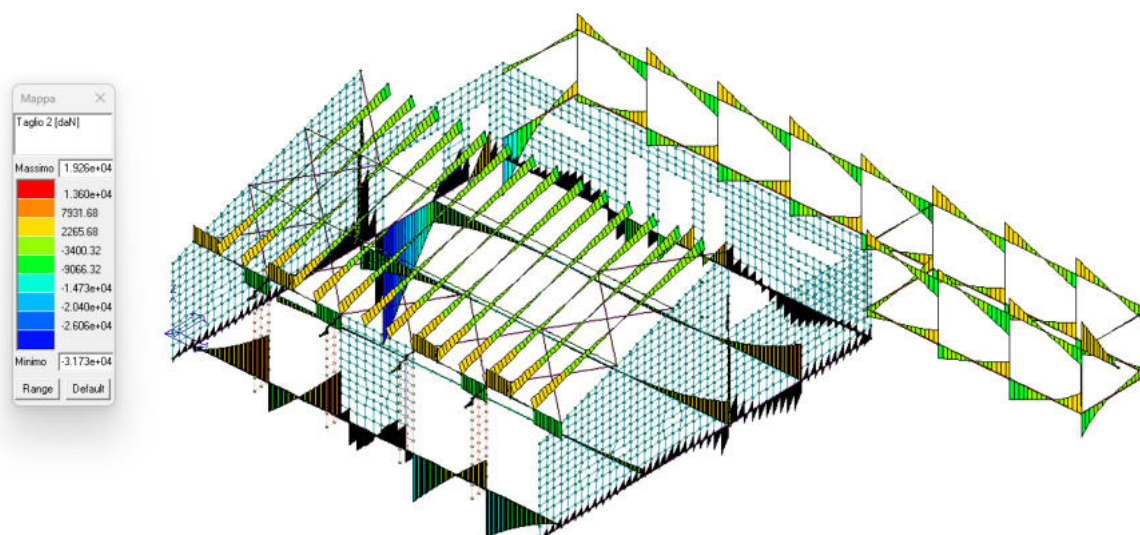
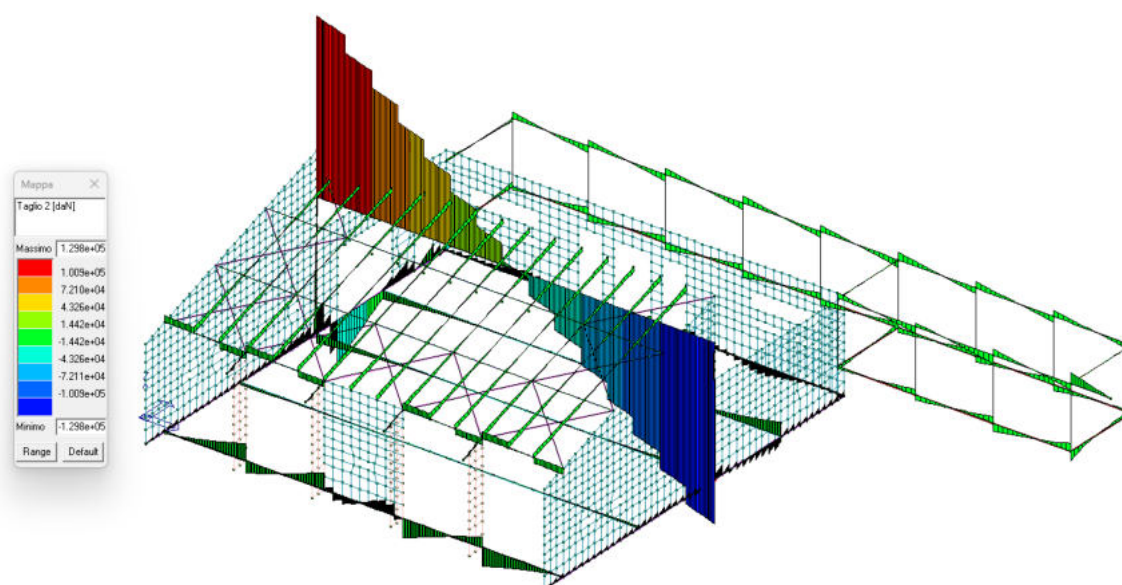
- sollecitazioni sugli elementi d2 nelle combinazioni di calcolo più significative

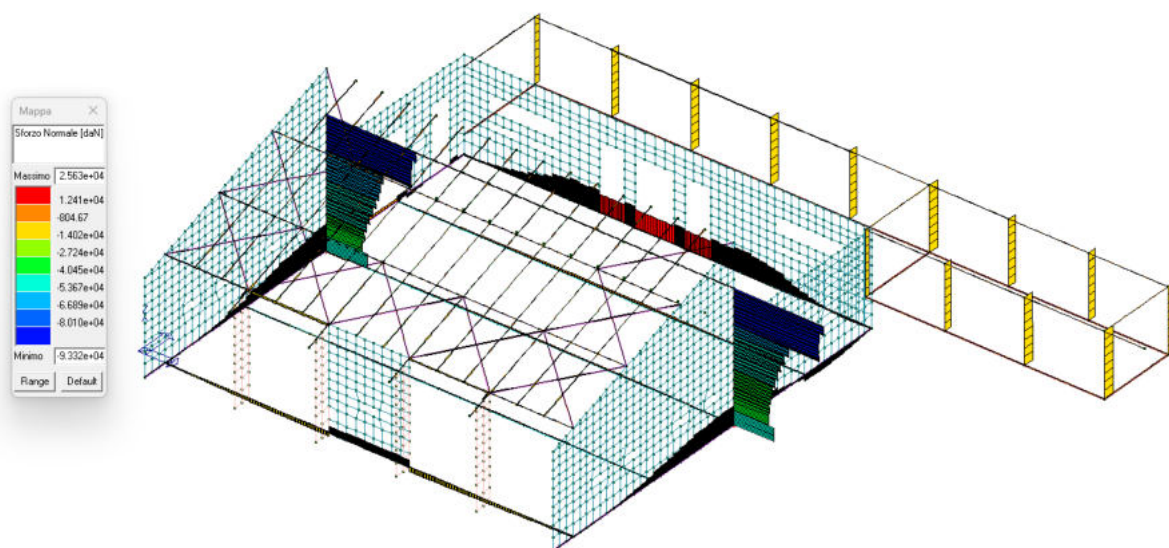


Massimo Momento flettente M3 in condizioni statiche (SLU) – Combinazione 8



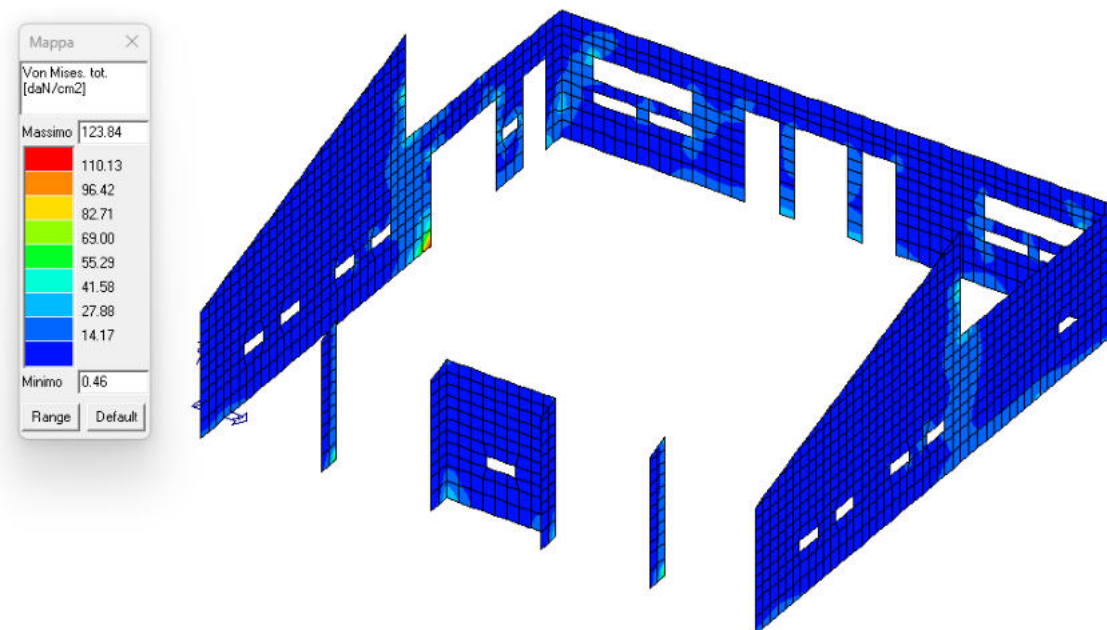
Massimo Momento flettente M3 in condizioni statiche (SLU) esclusa trave alta principale – Combinazione 28



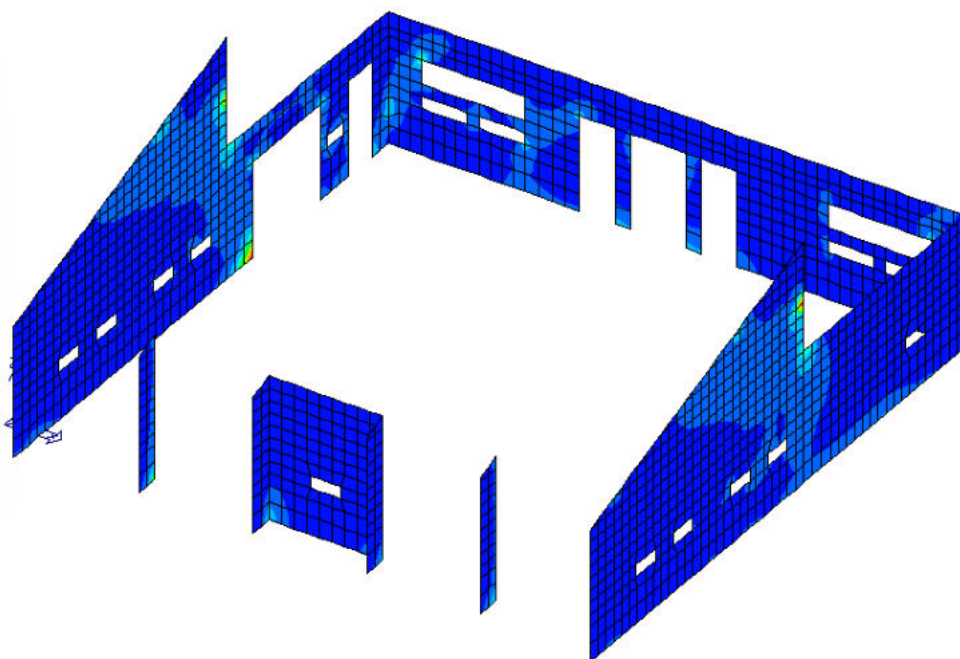
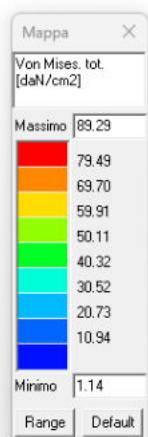


Massima Azione Assiale N in condizioni statiche (SLU) – Combinazione 8

- tensioni sugli elementi d3 nelle combinazioni di calcolo più significative

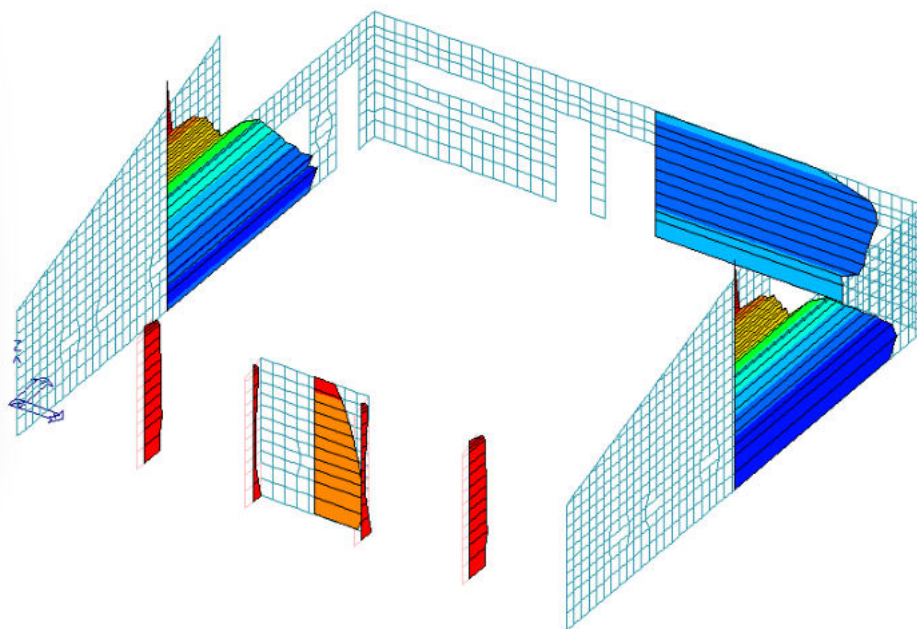
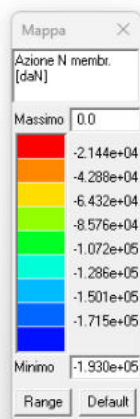


Sollecitazione massima in condizioni statiche (SLU) – Combinazione 28

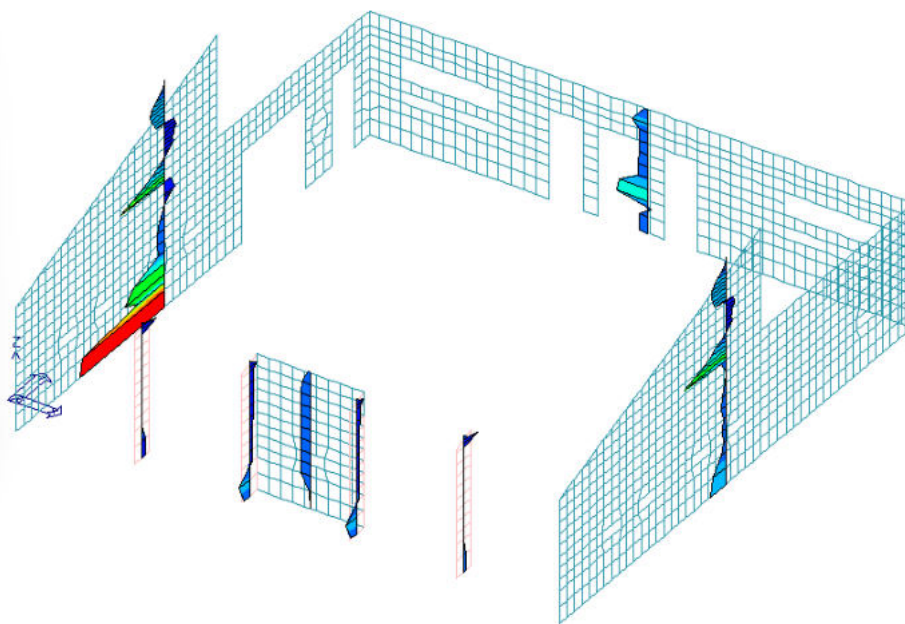
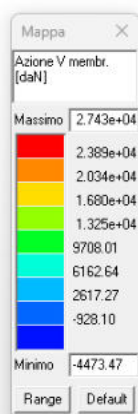


Sollecitazione massima in condizioni sismiche (SLV) – Combinazione 53

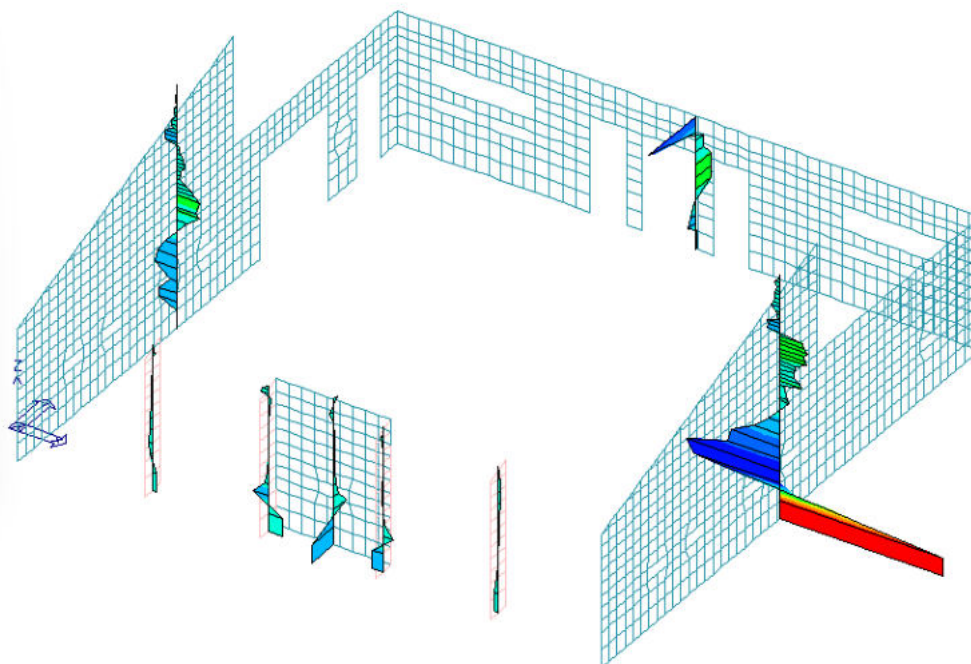
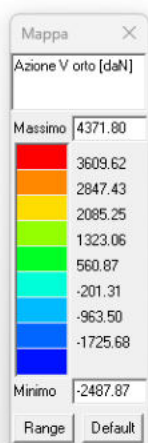
- sollecitazioni sui macroelementi da elementi d3 nelle combinazioni di calcolo più significative



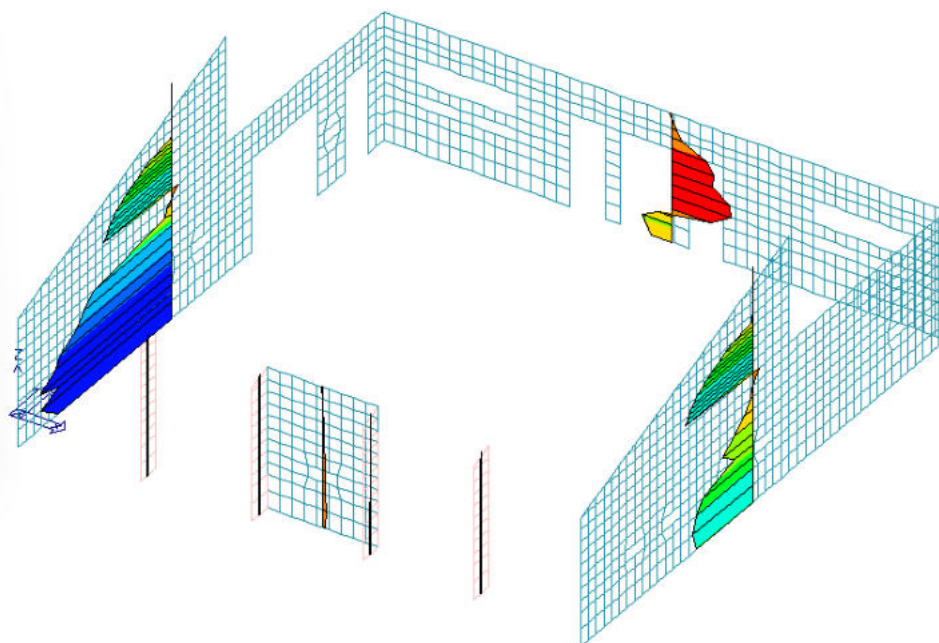
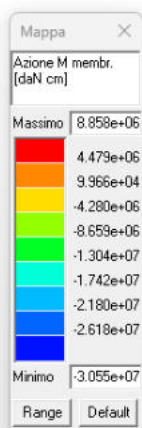
Azione N massima (SLU) – Combinazione 8



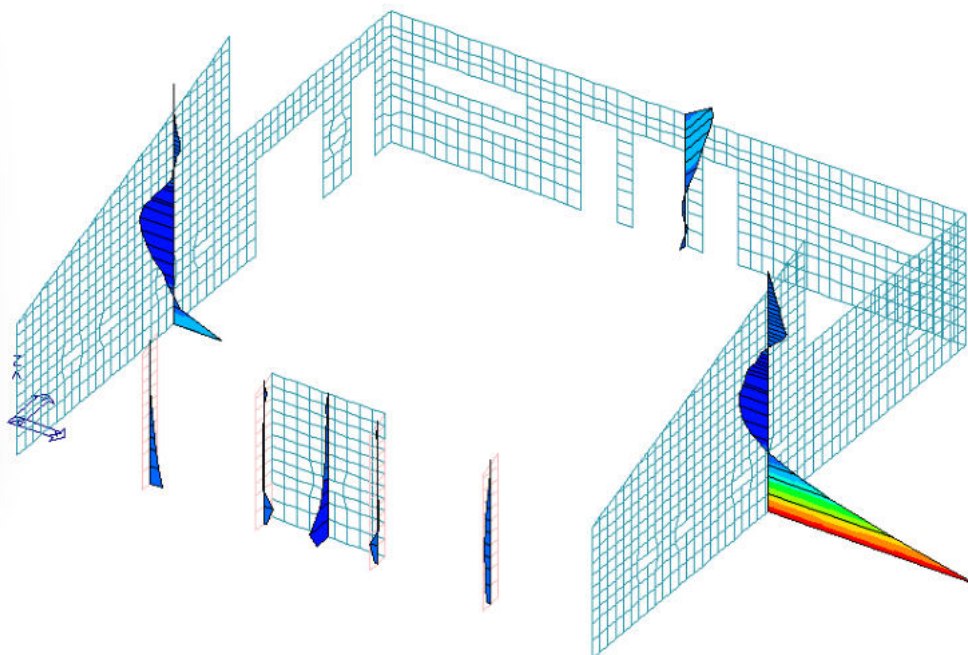
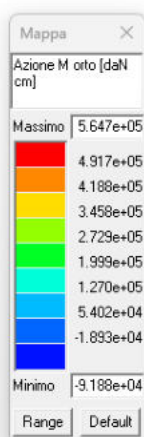
Azione V membranale massima (SLU) – Combinazione 8



Azione V ortogonale massima (SLU) – Combinazione 26



Azione M membranale massima (SLU) – Combinazione 26



Azione M ortogonale massima (SLU) – Combinazione 26

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 involucri 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 anormali. 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 SLE 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.

NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. Circolare 21/01/19, n. 7 C.S.LL.PP. "Istruzioni per l'applicazione dell'aggiornamento delle Norme Tecniche delle Costruzioni di cui al decreto ministeriale 17 gennaio 2018"
3. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
4. 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".
5. 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>>".
6. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
 7. 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.
 8. 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.
 9. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
 10. 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".
 11. 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".
 12. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
 13. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
 14. 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.
 15. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
 16. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
 17. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
 18. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
 19. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
 20. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
 21. 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.
 22. 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.
 23. 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.
 24. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
 25. 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.
 26. 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.
 27. 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.
 28. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
 29. 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.
 30. 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.
 31. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
 32. 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.
 33. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.

34. 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.
35. CNR DT-200/2013 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati
36. CNR DT-215/2018 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati a Matrice Inorganica

NOTA: il presente capitolo 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 normative antecedenti al DM 17.01.18 è dovuto alla progettazione simulata di edificio esistente.

CARATTERISTICHE MATERIALI UTILIZZATI

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

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

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

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

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

1	c.a.	Resistenza Rc Resistenza fctm Coefficiente ksb	resistenza a compressione cubica resistenza media a trazione semplice Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft Tensione fy Resistenza fd Resistenza fd (>40) Tensione ammissibile Tensione ammissibile(>40)	Valore della tensione di rottura Valore della tensione di snervamento Resistenza di calcolo per SL CNR-UNI 10011 Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm Tensione ammissibile CNR-UNI 10011 Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura	Muratura consolidata Incremento resistenza Incremento rigidezza Resistenza f Resistenza fv0 Resistenza fh Resistenza fb Resistenza fbh Resistenza fv0h Resistenza ft Resistenza fvlm Resistenza fbt Coefficiente mu Coefficiente fi Coefficiente ksb	Muratura per la quale si prevedono interventi di rinforzo" Incremento conseguito in termini di resistenza Incremento conseguito in termini di rigidezza Valore della resistenza a compressione Valore della resistenza a taglio in assenza di tensioni normali Valore della resistenza a compressione orizzontale Valore della resistenza a compressione dei blocchi Valore della resistenza a compressione dei blocchi in direzione orizzontale Valore della resistenza a taglio in assenza di tensioni normali per le travi Valore della resistenza a trazione per fessurazione diagonale Valore della massima resistenza a taglio Valore della resistenza a trazione dei blocchi Coefficiente d'attrito utilizzato per la resistenza a taglio Coefficiente d'ingranamento utilizzato per la resistenza a taglio Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	E0,05 Resistenza fc0 Resistenza ft0 Resistenza fm Resistenza fv Resist. ft0k Resist. fmk Resist. fvk Modulo E0,05 Lamellare	Modulo di elasticità corrispondente ad un frattile del 5% Valore della resistenza a compressione parallela Valore della resistenza a trazione parallela Valore della resistenza a flessione Valore della resistenza a taglio 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

Nel tabulato si riportano sia i valori caratteristici che medi utilizzando gli uni e/o gli altri in relazione alle richieste di normativa ed alla tipologia di verifica. (Cap.7 NTC18 per materiali nuovi, Cap.8 NTC18 e relativa circolare 21/01/2019 per materiali esistenti, Linee Guida Reluis per incamiciatura CAM, CNR-DT 200 per interventi con FRP, CNR-DT 215 per interventi con FRCM)

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

USO.

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
3	Calcestruzzo Classe C28/35			3.259e+05	0.20	1.358e+05	2.50e-03	1.00e-05	
	Resistenza Rc	350.0							
	Resistenza fctm		28.4						
	Rapporto Rfessurata (assiale)								1.00
	Rapporto Rfessurata (flessione)								1.00
	Rapporto Rfessurata (taglio)								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
12	Acciaio Fe430 - S275-acciaio Fe430-S275			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	4300.0							
	Resistenza fd	2750.0							
	Resistenza fd (>40)	2500.0							
	Tensione ammissibile	1900.0							
	Tensione ammissibile (>40)	1700.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
129	Legno lamellare omogeneo GL24h-legno E = 1.150e+05			1.150e+05	0.0	6500.0	4.20e-04	1.00e-05	
	Modulo E0,05			9.599e+04					
	Lamellare : SI								
	Resistenza fc0	240.0							
	Resistenza ft0	192.0							
	Resistenza fm	240.0							
	Resistenza fv	35.0							
	Incremento dinamico								1.00
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
157	Materiale inf. rigido no peso E = 1.000e+07- materiale E = 1.000e+07			1.000e+07	0.0	5.000e+06	0.0	1.20e-05	
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
158	Materiale inf. deformabile no peso -materiale E = 1.00			1.0	0.0	0.5	0.0	1.20e-05	
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05

Aste acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Beta assegnato	0.80	0.80	0.80			
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	Assegnato	Assegnato	Assegnato			
2-2 Beta assegnato	2.00	2.00	2.00			
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0			
Metodo di calcolo 3-3	Assegnato	Assegnato	Assegnato			
3-3 Beta assegnato	2.00	2.00	2.00			
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			

Pilastri acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Momenti equivalenti	SI	SI	SI			
Usa condizioni I e II	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 FONDAZIONE	Singolo elemento NON DISSIPATIVO			
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			
Copri ferro [cm]	2.00	2.00	2.00			
Maglia V						
diametro	10	10	12			
passo	25	25	20			
diametro aggiuntivi	12	12	12			
Maglia O						
diametro	10	10	10			
passo	25	25	20			
diametro aggiuntivi	12	12	12			
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00			
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			
Verifiche con N costante	SI	SI	SI			
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50	97.50			
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
Parete estesa debolmente armata						
Fattore amplificazione taglio V	0.0	0.0	0.0			
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			
Diagramma inviluppo taglio	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	SI			
3+ estradosso	NO	NO	SI			
Tempo di esposizione R	15	15	60			

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetta a filo	NO	NO	NO			
Af inf: da q*L*L /	0.0	0.0	0.0			
Armatura						
Minima tesa	0.31	0.20	0.13			
Minima compressa	0.31	0.20	0.13			



Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Massima tesa	0.78	4.00	4.00			
Da sezione	SI	SI	SI			
Usa armatura teorica	NO	NO	NO			
Stati limite ultimi						
Tensione fy [daN/cm ²]	4500.00	4500.00	4500.00			
Tensione fy staffe [daN/cm ²]	4500.00	4500.00	4500.00			
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			
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/cm ²]	97.50	97.50	97.50			
Tensione amm. acciaio [daN/cm ²]	2600.00	2600.00	2600.00			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
Staffe						
Diametro staffe	0.0	0.0	0.0			
Passo minimo [cm]	4.00	4.00	4.00			
Passo massimo [cm]	30.00	30.00	30.00			
Passo raffittito [cm]	15.00	25.00	20.00			
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]	1.00	1.00	1.00			
Adotta scorrimento medio	NO	NO	NO			
Torsione non essenziale inclusa	SI	SI	SI			

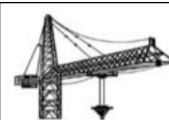
Pilastrì c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Privilegia lati	Privilegia lati	Privilegia lati			
Progetta a filo	NO	NO	NO			
Effetti del 2 ordine	SI	SI	SI			
Beta per 2-2	1.00	1.00	1.00			
Beta per 3-3	1.00	1.00	1.00			
Armatura						
Massima tesa	4.00	4.00	4.00			
Minima tesa	1.00	1.00	0.30			
Stati limite ultimi						
Tensione fy [daN/cm ²]	4500.00	4500.00	4500.00			
Tensione fy staffe [daN/cm ²]	4500.00	4500.00	4500.00			
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			
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/cm ²]	97.50	97.50	97.50			
Tensione amm. acciaio [daN/cm ²]	2600.00	2600.00	2600.00			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Staffe						
Diametro staffe	0.0	0.0	0.0			
Passo minimo [cm]	5.00	5.00	5.00			



Pilastri c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
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]	1.00	1.00	1.00			
Massimizza gerarchia	SI	SI	SI			

Solai e pannelli	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/cm2]	4500.00	4500.00	4500.00			
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 ridistribuzione	0.0	0.0	0.0			
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00	85.00	85.00			
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
Verifica freccia						
Infinita	250.00	250.00	250.00			
Istantanea	500.00	500.00	500.00			
Fattore viscosità	3.00	3.00	3.00			
Usa J non fessurato	NO	NO	NO			
Elementi non strutturali						
Tamponatura antiespulsione	NO	NO	NO			
Tamponatura con armatura	NO	NO	NO			
Fattore di struttura/comportamento	2.00	2.00	2.00			
Coefficiente gamma m	0.0	0.0	0.0			
Periodo Ta	0.0	0.0	0.0			
Altezza pannello	0.0	0.0	0.0			

Legno	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
aste						
Beta assegnato	0.80	0.80	0.80			
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			
pilastri						
Metodo di calcolo 3-3	Assegnato	Assegnato	Assegnato			
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	Assegnato	Assegnato	Assegnato			
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			



Legno	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Gamma non sismico	1.50	1.50	1.50			
Gamma sismico	1.50	1.50	1.50			
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	1.10	1.10	1.10			
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	1.10	1.10	1.10			
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	NO	NO	NO			
Media valori elementi	SI	SI	SI			
Connessioni pareti						
rvpk [daN/cm]	50.00	50.00	50.00			
rvtk [daN/cm]	50.00	50.00	50.00			
rvlk [daN/cm]	50.00	50.00	50.00			
RHk [daN]	5000.00	5000.00	5000.00			
dH [cm]	25.00	25.00	25.00			
fcH90k [daN/cm2]	20.00	20.00	20.00			
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/cm2]	200000.00	200000.00	200000.00			
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

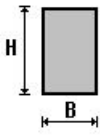
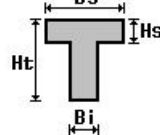
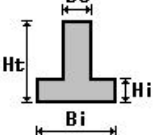
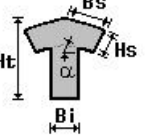
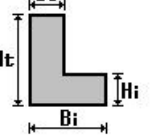
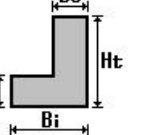
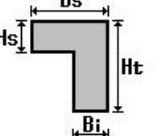
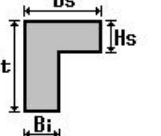
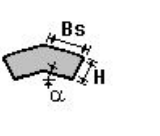
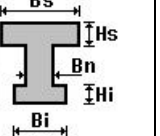
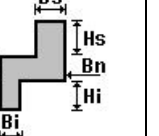
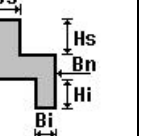
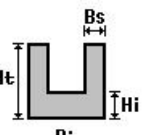
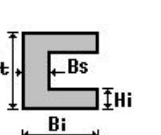
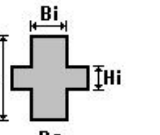
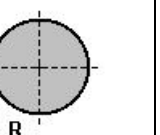
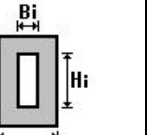
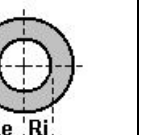
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
1	Trave alta-Rettangolare: b=45 h=330	1.485e+04	1.238e+04	1.238e+04	9.163e+06	2.506e+06	1.348e+08	1.114e+05	8.168e+05	1.671e+05	1.225e+06
2	Trave frontale-	1500.00	1250.00	1250.00	2.799e+05	1.125e+05	3.125e+05	7500.00	1.250e+04	1.125e+04	1.875e+04

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
	Rettangolare: b=30 h=50										
4	Rettangolare: b=30 h=50	1500.00	1250.00	1250.00	2.799e+05	1.125e+05	3.125e+05	7500.00	1.250e+04	1.125e+04	1.875e+04
5	Elemento fittizio- Rettangolare: b=5 h=5	25.00	20.83	20.83	87.85	52.08	52.08	20.83	20.83	31.25	31.25
6	Puntone tetto- Rettangolare: b=20 h=30	600.00	500.00	500.00	4.640e+04	2.000e+04	4.500e+04	2000.00	3000.00	3000.00	4500.00
7	Controvento copertura- Circolare: r=1	3.14	2.65	2.65	1.57	0.79	0.79	0.79	0.79	1.33	1.33
9	Mensola copertura- Rettangolare: b=45 h=20	900.00	750.00	750.00	8.640e+04	1.519e+05	3.000e+04	6750.00	3000.00	1.012e+04	4500.00
11	HEB 120	34.00	0.0	0.0	13.80	318.00	864.00	52.90	144.10	81.00	165.20
12	Trave tettoia- Rettangolare: b=28 h=75	2100.00	1750.00	1750.00	4.197e+05	1.372e+05	9.844e+05	9800.00	2.625e+04	1.470e+04	3.938e+04
13	Fondazione RAP- T rovescia: bi=70 ht=105 bs=40 hi=50	5700.00	0.0	0.0	3.338e+06	1.722e+06	5.007e+06	4.921e+04	8.382e+04	8.325e+04	1.420e+05
14	Fondazione Setti- T rovescia: bi=160 ht=105 bs=40 hi=50	1.020e+04	0.0	0.0	7.057e+06	1.736e+07	6.977e+06	2.170e+05	1.016e+05	3.420e+05	2.079e+05
15	Fondazione Muri- T rovescia: bi=100 ht=105 bs=40 hi=50	7200.00	0.0	0.0	4.557e+06	4.460e+06	5.807e+06	8.920e+04	9.080e+04	1.470e+05	1.659e+05
16	Trave fondazione portico- Rettangolare: b=40 h=30	1200.00	1000.00	1000.00	1.946e+05	1.600e+05	9.000e+04	8000.00	6000.00	1.200e+04	9000.00
17	Pilastrino- Rettangolare: b=45 h=60	2700.00	2250.00	2250.00	9.851e+05	4.556e+05	8.100e+05	2.025e+04	2.700e+04	3.038e+04	4.050e+04
18	Trave irrigidimento- Rettangolare: b=30 h=15	450.00	375.00	375.00	2.312e+04	3.375e+04	8437.50	2250.00	1125.00	3375.00	1687.50

MODELLAZIONE STRUTTURA: NODI

Il programma utilizza per la modellazione nodi strutturali.

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

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

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

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

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

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

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	0.0	0.0	0.0	2	261.1	1900.0	320.0	3	0.0	1080.0	0.0
4	1900.0	1080.0	0.0	5	0.0	40.0	0.0	6	223.3	1900.0	240.0
7	387.5	40.0	0.0	8	762.5	40.0	0.0	9	1137.5	40.0	0.0
10	1512.5	40.0	0.0	11	0.0	0.0	320.0	12	1900.0	0.0	320.0
13	0.0	1080.0	680.0	14	1900.0	1080.0	680.0	15	0.0	1080.0	40.0
16	0.0	1040.0	40.0	17	0.0	1040.0	0.0	18	0.0	1080.0	80.0
19	0.0	1040.0	80.0	20	0.0	1080.0	120.0	21	0.0	1040.0	120.0
22	0.0	1080.0	160.0	23	0.0	1040.0	160.0	24	0.0	1080.0	200.0
25	0.0	1040.0	200.0	26	0.0	1080.0	240.0	27	0.0	1040.0	240.0
28	0.0	1080.0	280.0	29	0.0	1040.0	280.0	30	0.0	1080.0	320.0
31	0.0	1040.0	320.0	32	0.0	1000.0	40.0	33	0.0	1000.0	0.0
34	0.0	1000.0	80.0	35	0.0	1000.0	120.0	36	0.0	1000.0	160.0
37	0.0	1000.0	200.0	38	0.0	1000.0	240.0	39	0.0	1000.0	280.0
40	0.0	1000.0	320.0	41	0.0	960.0	40.0	42	0.0	960.0	0.0
43	0.0	960.0	80.0	44	0.0	960.0	120.0	45	0.0	960.0	160.0
46	0.0	960.0	200.0	47	0.0	960.0	240.0	48	0.0	960.0	280.0
49	0.0	960.0	320.0	50	0.0	900.0	40.0	51	0.0	920.0	0.0
52	0.0	900.0	80.0	53	0.0	920.0	120.0	54	0.0	920.0	160.0
55	0.0	920.0	200.0	56	0.0	920.0	240.0	57	0.0	920.0	280.0
58	0.0	920.0	320.0	59	0.0	880.0	40.0	60	0.0	880.0	0.0
61	0.0	880.0	80.0	62	0.0	880.0	120.0	63	0.0	880.0	160.0
64	0.0	880.0	200.0	65	0.0	880.0	240.0	66	0.0	880.0	280.0
67	0.0	880.0	320.0	68	0.0	840.0	40.0	69	0.0	840.0	0.0
70	0.0	840.0	80.0	71	0.0	840.0	120.0	72	0.0	840.0	160.0
73	0.0	840.0	200.0	74	0.0	840.0	240.0	75	0.0	840.0	280.0
76	0.0	840.0	320.0	77	0.0	810.0	40.0	78	0.0	800.0	0.0
79	0.0	810.0	80.0	80	0.0	800.0	120.0	81	0.0	800.0	160.0
82	0.0	800.0	200.0	83	0.0	800.0	240.0	84	0.0	800.0	280.0
85	0.0	800.0	320.0	86	0.0	760.0	40.0	87	0.0	760.0	0.0
88	0.0	760.0	80.0	89	0.0	760.0	120.0	90	0.0	760.0	160.0
91	0.0	760.0	200.0	92	0.0	760.0	240.0	93	0.0	760.0	280.0
94	0.0	760.0	320.0	95	0.0	710.0	40.0	96	0.0	720.0	0.0
97	0.0	710.0	80.0	98	0.0	720.0	120.0	99	0.0	720.0	160.0
100	0.0	720.0	200.0	101	0.0	720.0	240.0	102	0.0	720.0	280.0
103	0.0	720.0	320.0	104	0.0	680.0	40.0	105	0.0	680.0	0.0
106	0.0	680.0	80.0	107	0.0	680.0	120.0	108	0.0	680.0	160.0
109	0.0	680.0	200.0	110	0.0	680.0	240.0	111	0.0	680.0	280.0
112	0.0	680.0	320.0	113	0.0	640.0	40.0	114	0.0	640.0	0.0
115	0.0	640.0	80.0	116	0.0	640.0	120.0	117	0.0	640.0	160.0
118	0.0	640.0	200.0	119	0.0	640.0	240.0	120	0.0	640.0	280.0
121	0.0	640.0	320.0	122	0.0	600.0	40.0	123	0.0	600.0	0.0
124	0.0	600.0	80.0	125	0.0	600.0	120.0	126	0.0	600.0	160.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
127	0.0	600.0	200.0	128	0.0	600.0	240.0	129	0.0	600.0	280.0
130	0.0	600.0	320.0	131	0.0	560.0	40.0	132	0.0	560.0	0.0
133	0.0	560.0	80.0	134	0.0	560.0	120.0	135	0.0	560.0	160.0
136	0.0	560.0	200.0	137	0.0	560.0	240.0	138	0.0	560.0	280.0
139	0.0	560.0	320.0	140	0.0	520.0	40.0	141	0.0	520.0	0.0
142	0.0	520.0	80.0	143	0.0	520.0	120.0	144	0.0	520.0	160.0
145	0.0	520.0	200.0	146	0.0	520.0	240.0	147	0.0	520.0	280.0
148	0.0	520.0	320.0	149	0.0	480.0	40.0	150	0.0	480.0	0.0
151	0.0	480.0	80.0	152	0.0	480.0	120.0	153	0.0	480.0	160.0
154	0.0	480.0	200.0	155	0.0	480.0	240.0	156	0.0	480.0	280.0
157	0.0	480.0	320.0	158	0.0	420.0	40.0	159	0.0	440.0	0.0
160	0.0	420.0	80.0	161	0.0	440.0	120.0	162	0.0	440.0	160.0
163	0.0	440.0	200.0	164	0.0	440.0	240.0	165	0.0	440.0	280.0
166	0.0	440.0	320.0	167	0.0	400.0	40.0	168	0.0	400.0	0.0
169	0.0	400.0	80.0	170	0.0	400.0	120.0	171	0.0	400.0	160.0
172	0.0	400.0	200.0	173	0.0	400.0	240.0	174	0.0	400.0	280.0
175	0.0	400.0	320.0	176	0.0	360.0	40.0	177	0.0	360.0	0.0
178	0.0	360.0	80.0	179	0.0	360.0	120.0	180	0.0	360.0	160.0
181	0.0	360.0	200.0	182	0.0	360.0	240.0	183	0.0	360.0	280.0
184	0.0	360.0	320.0	185	0.0	330.0	40.0	186	0.0	320.0	0.0
187	0.0	330.0	80.0	188	0.0	320.0	120.0	189	0.0	320.0	160.0
190	0.0	320.0	200.0	191	0.0	320.0	240.0	192	0.0	320.0	280.0
193	0.0	320.0	320.0	194	0.0	280.0	40.0	195	0.0	280.0	0.0
196	0.0	280.0	80.0	197	0.0	280.0	120.0	198	0.0	280.0	160.0
199	0.0	280.0	200.0	200	0.0	280.0	240.0	201	0.0	280.0	280.0
202	0.0	280.0	320.0	203	0.0	230.0	40.0	204	0.0	240.0	0.0
205	0.0	230.0	80.0	206	0.0	240.0	120.0	207	0.0	240.0	160.0
208	0.0	240.0	200.0	209	0.0	240.0	240.0	210	0.0	240.0	280.0
211	0.0	240.0	320.0	212	0.0	200.0	40.0	213	0.0	200.0	0.0
214	0.0	200.0	80.0	215	0.0	200.0	120.0	216	0.0	200.0	160.0
217	0.0	200.0	200.0	218	0.0	200.0	240.0	219	0.0	200.0	280.0
220	0.0	200.0	320.0	221	0.0	160.0	40.0	222	0.0	160.0	0.0
223	0.0	160.0	80.0	224	0.0	160.0	120.0	225	0.0	160.0	160.0
226	0.0	160.0	200.0	227	0.0	160.0	240.0	228	0.0	160.0	280.0
229	0.0	160.0	320.0	230	0.0	120.0	40.0	231	0.0	120.0	0.0
232	0.0	120.0	80.0	233	0.0	120.0	120.0	234	0.0	120.0	160.0
235	0.0	120.0	200.0	236	0.0	120.0	240.0	237	0.0	120.0	280.0
238	0.0	120.0	320.0	239	0.0	80.0	40.0	240	0.0	80.0	0.0
241	0.0	80.0	80.0	242	0.0	80.0	120.0	243	0.0	80.0	160.0
244	0.0	80.0	200.0	245	0.0	80.0	240.0	246	0.0	80.0	280.0
247	0.0	80.0	320.0	248	0.0	40.0	40.0	249	0.0	40.0	80.0
250	0.0	40.0	120.0	251	0.0	40.0	160.0	252	0.0	40.0	200.0
253	0.0	40.0	240.0	254	0.0	40.0	280.0	255	0.0	40.0	320.0
256	0.0	0.0	40.0	257	0.0	0.0	80.0	258	0.0	0.0	120.0
259	0.0	0.0	160.0	260	0.0	0.0	200.0	261	0.0	0.0	240.0
262	0.0	0.0	280.0	263	1900.0	1080.0	40.0	264	223.3	1900.0	200.0
265	223.3	1900.0	270.0	266	1900.0	1080.0	80.0	267	223.3	1900.0	320.0
268	1900.0	1080.0	120.0	269	1900.0	1040.0	120.0	270	1900.0	1080.0	160.0
271	1900.0	1040.0	160.0	272	1900.0	1080.0	200.0	273	1900.0	1040.0	200.0
274	1900.0	1080.0	240.0	275	1900.0	1040.0	240.0	276	1900.0	1080.0	280.0
277	1900.0	1040.0	280.0	278	1900.0	1080.0	320.0	279	1900.0	1040.0	320.0
280	185.6	1900.0	240.0	281	185.6	1900.0	200.0	282	185.6	1900.0	270.0
283	1900.0	1000.0	120.0	284	1900.0	1000.0	160.0	285	1900.0	1000.0	200.0
286	1900.0	1000.0	240.0	287	1900.0	1000.0	280.0	288	1900.0	1000.0	320.0
289	185.6	1900.0	320.0	290	147.8	1900.0	240.0	291	147.8	1900.0	200.0
292	1900.0	960.0	120.0	293	1900.0	960.0	160.0	294	1900.0	960.0	200.0
295	1900.0	960.0	240.0	296	1900.0	960.0	280.0	297	1900.0	960.0	320.0
298	147.8	1900.0	270.0	299	147.8	1900.0	320.0	300	1110.0	1900.0	240.0
301	1900.0	920.0	120.0	302	1900.0	920.0	160.0	303	1900.0	920.0	200.0
304	1900.0	920.0	240.0	305	1900.0	920.0	280.0	306	1900.0	920.0	320.0
307	1110.0	1900.0	200.0	308	1110.0	1900.0	270.0	309	1110.0	1900.0	320.0
310	1900.0	880.0	120.0	311	1900.0	880.0	160.0	312	1900.0	880.0	200.0
313	1900.0	880.0	240.0	314	1900.0	880.0	280.0	315	1900.0	880.0	320.0
316	1070.0	1900.0	240.0	317	1070.0	1900.0	200.0	318	1070.0	1900.0	270.0
319	1900.0	840.0	120.0	320	1900.0	840.0	160.0	321	1900.0	840.0	200.0
322	1900.0	840.0	240.0	323	1900.0	840.0	280.0	324	1900.0	840.0	320.0
325	1070.0	1900.0	320.0	326	710.0	1900.0	240.0	327	710.0	1900.0	200.0
328	1900.0	800.0	120.0	329	1900.0	800.0	160.0	330	1900.0	800.0	200.0
331	1900.0	800.0	240.0	332	1900.0	800.0	280.0	333	1900.0	800.0	320.0
334	710.0	1900.0	270.0	335	710.0	1900.0	320.0	336	670.0	1900.0	240.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
337	1900.0	760.0	120.0	338	1900.0	760.0	160.0	339	1900.0	760.0	200.0
340	1900.0	760.0	240.0	341	1900.0	760.0	280.0	342	1900.0	760.0	320.0
343	670.0	1900.0	200.0	344	670.0	1900.0	270.0	345	670.0	1900.0	320.0
346	1900.0	720.0	120.0	347	1900.0	720.0	160.0	348	1900.0	720.0	200.0
349	1900.0	720.0	240.0	350	1900.0	720.0	280.0	351	1900.0	720.0	320.0
352	935.0	1900.0	240.0	353	935.0	1900.0	200.0	354	935.0	1900.0	270.0
355	1900.0	680.0	120.0	356	1900.0	680.0	160.0	357	1900.0	680.0	200.0
358	1900.0	680.0	240.0	359	1900.0	680.0	280.0	360	1900.0	680.0	320.0
361	935.0	1900.0	320.0	362	890.0	1900.0	240.0	363	890.0	1900.0	200.0
364	1900.0	640.0	120.0	365	1900.0	640.0	160.0	366	1900.0	640.0	200.0
367	1900.0	640.0	240.0	368	1900.0	640.0	280.0	369	1900.0	640.0	320.0
370	890.0	1900.0	270.0	371	890.0	1900.0	320.0	372	845.0	1900.0	240.0
373	1900.0	600.0	120.0	374	1900.0	600.0	160.0	375	1900.0	600.0	200.0
376	1900.0	600.0	240.0	377	1900.0	600.0	280.0	378	1900.0	600.0	320.0
379	845.0	1900.0	200.0	380	845.0	1900.0	270.0	381	845.0	1900.0	320.0
382	1900.0	560.0	120.0	383	1900.0	560.0	160.0	384	1900.0	560.0	200.0
385	1900.0	560.0	240.0	386	1900.0	560.0	280.0	387	1900.0	560.0	320.0
388	0.0	1780.0	240.0	389	0.0	1780.0	200.0	390	0.0	1780.0	280.0
391	1900.0	520.0	120.0	392	1900.0	520.0	160.0	393	1900.0	520.0	200.0
394	1900.0	520.0	240.0	395	1900.0	520.0	280.0	396	1900.0	520.0	320.0
397	0.0	1780.0	320.0	398	0.0	1740.0	240.0	399	0.0	1740.0	200.0
400	1900.0	480.0	120.0	401	1900.0	480.0	160.0	402	1900.0	480.0	200.0
403	1900.0	480.0	240.0	404	1900.0	480.0	280.0	405	1900.0	480.0	320.0
406	0.0	1740.0	280.0	407	0.0	1740.0	320.0	408	0.0	1521.1	240.0
409	1900.0	440.0	120.0	410	1900.0	440.0	160.0	411	1900.0	440.0	200.0
412	1900.0	440.0	240.0	413	1900.0	440.0	280.0	414	1900.0	440.0	320.0
415	0.0	1521.1	200.0	416	0.0	1521.1	280.0	417	0.0	1521.1	320.0
418	1900.0	400.0	120.0	419	1900.0	400.0	160.0	420	1900.0	400.0	200.0
421	1900.0	400.0	240.0	422	1900.0	400.0	280.0	423	1900.0	400.0	320.0
424	0.0	1482.2	240.0	425	0.0	1482.2	200.0	426	0.0	1482.2	280.0
427	1900.0	360.0	120.0	428	1900.0	360.0	160.0	429	1900.0	360.0	200.0
430	1900.0	360.0	240.0	431	1900.0	360.0	280.0	432	1900.0	360.0	320.0
433	0.0	1482.2	320.0	434	0.0	1443.3	240.0	435	0.0	1443.3	200.0
436	1900.0	320.0	120.0	437	1900.0	320.0	160.0	438	1900.0	320.0	200.0
439	1900.0	320.0	240.0	440	1900.0	320.0	280.0	441	1900.0	320.0	320.0
442	0.0	1443.3	280.0	443	0.0	1443.3	320.0	444	0.0	1404.4	240.0
445	1900.0	280.0	120.0	446	1900.0	280.0	160.0	447	1900.0	280.0	200.0
448	1900.0	280.0	240.0	449	1900.0	280.0	280.0	450	1900.0	280.0	320.0
451	0.0	1404.4	200.0	452	0.0	1404.4	280.0	453	0.0	1404.4	320.0
454	1900.0	240.0	120.0	455	1900.0	240.0	160.0	456	1900.0	240.0	200.0
457	1900.0	240.0	240.0	458	1900.0	240.0	280.0	459	1900.0	240.0	320.0
460	0.0	1365.6	240.0	461	0.0	1365.6	200.0	462	0.0	1365.6	280.0
463	1900.0	200.0	120.0	464	1900.0	200.0	160.0	465	1900.0	200.0	200.0
466	1900.0	200.0	240.0	467	1900.0	200.0	280.0	468	1900.0	200.0	320.0
469	0.0	1365.6	320.0	470	0.0	1326.7	240.0	471	0.0	1326.7	200.0
472	1900.0	160.0	120.0	473	1900.0	160.0	160.0	474	1900.0	160.0	200.0
475	1900.0	160.0	240.0	476	1900.0	160.0	280.0	477	1900.0	160.0	320.0
478	0.0	1326.7	280.0	479	0.0	1326.7	320.0	480	0.0	1287.8	240.0
481	1900.0	120.0	120.0	482	1900.0	120.0	160.0	483	1900.0	120.0	200.0
484	1900.0	120.0	240.0	485	1900.0	120.0	280.0	486	1900.0	120.0	320.0
487	0.0	1287.8	200.0	488	0.0	1287.8	280.0	489	0.0	1287.8	320.0
490	1900.0	80.0	120.0	491	1900.0	80.0	160.0	492	1900.0	80.0	200.0
493	1900.0	80.0	240.0	494	1900.0	80.0	280.0	495	1900.0	80.0	320.0
496	0.0	1248.9	240.0	497	0.0	1248.9	200.0	498	1900.0	40.0	120.0
499	1900.0	40.0	160.0	500	1900.0	40.0	200.0	501	1900.0	40.0	240.0
502	1900.0	40.0	280.0	503	1900.0	40.0	320.0	504	0.0	1248.9	280.0
505	0.0	1248.9	320.0	506	1900.0	0.0	120.0	507	1900.0	0.0	160.0
508	1900.0	0.0	200.0	509	1900.0	0.0	240.0	510	1900.0	0.0	280.0
511	0.0	760.0	400.0	512	0.0	760.0	560.0	513	0.0	1080.0	440.0
514	0.0	1080.0	480.0	515	0.0	1080.0	520.0	516	0.0	1080.0	560.0
517	0.0	1080.0	600.0	518	0.0	1080.0	640.0	519	0.0	40.0	333.3
520	0.0	80.0	346.7	521	0.0	160.0	373.3	522	0.0	200.0	386.7
523	0.0	280.0	413.3	524	0.0	320.0	426.7	525	0.0	400.0	453.3
526	0.0	440.0	466.7	527	0.0	520.0	493.3	528	0.0	560.0	506.7
529	0.0	640.0	400.0	530	0.0	640.0	533.3	531	0.0	680.0	546.7
532	0.0	760.0	573.3	533	0.0	800.0	586.7	534	0.0	880.0	613.3
535	0.0	920.0	626.7	536	0.0	1000.0	653.3	537	0.0	1040.0	666.7
538	0.0	120.0	360.0	539	0.0	680.0	440.0	540	0.0	840.0	400.0
541	0.0	1000.0	360.0	542	0.0	1000.0	400.0	543	0.0	1000.0	440.0
544	0.0	1000.0	480.0	545	0.0	1000.0	520.0	546	0.0	1000.0	560.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
547	0.0	160.0	360.0	548	0.0	680.0	480.0	549	0.0	1000.0	600.0
550	0.0	1000.0	640.0	551	0.0	600.0	360.0	552	0.0	1040.0	360.0
553	0.0	1040.0	400.0	554	0.0	1040.0	440.0	555	0.0	1040.0	480.0
556	0.0	200.0	360.0	557	0.0	680.0	520.0	558	0.0	1040.0	520.0
559	0.0	1040.0	560.0	560	0.0	1040.0	600.0	561	0.0	1040.0	640.0
562	0.0	600.0	400.0	563	0.0	1080.0	360.0	564	0.0	1080.0	400.0
565	0.0	240.0	360.0	566	0.0	240.0	400.0	567	0.0	760.0	520.0
568	0.0	720.0	560.0	569	0.0	920.0	360.0	570	0.0	920.0	400.0
571	0.0	920.0	440.0	572	0.0	920.0	480.0	573	0.0	920.0	520.0
574	0.0	280.0	360.0	575	0.0	280.0	400.0	576	0.0	680.0	360.0
577	0.0	920.0	560.0	578	0.0	920.0	600.0	579	0.0	600.0	440.0
580	0.0	720.0	360.0	581	0.0	960.0	360.0	582	0.0	960.0	400.0
583	0.0	320.0	360.0	584	0.0	320.0	400.0	585	0.0	680.0	400.0
586	0.0	960.0	440.0	587	0.0	960.0	480.0	588	0.0	960.0	520.0
589	0.0	960.0	560.0	590	0.0	960.0	600.0	591	0.0	960.0	640.0
592	0.0	360.0	360.0	593	0.0	360.0	400.0	594	0.0	360.0	440.0
595	0.0	640.0	360.0	596	0.0	840.0	440.0	597	0.0	840.0	480.0
598	0.0	840.0	520.0	599	0.0	840.0	560.0	600	0.0	840.0	600.0
601	0.0	400.0	360.0	602	0.0	400.0	400.0	603	0.0	400.0	440.0
604	0.0	760.0	440.0	605	0.0	600.0	480.0	606	0.0	720.0	400.0
607	0.0	880.0	360.0	608	0.0	880.0	400.0	609	0.0	880.0	440.0
610	0.0	440.0	360.0	611	0.0	440.0	400.0	612	0.0	440.0	440.0
613	0.0	760.0	480.0	614	0.0	880.0	480.0	615	0.0	880.0	520.0
616	0.0	880.0	560.0	617	0.0	880.0	600.0	618	0.0	600.0	520.0
619	0.0	480.0	360.0	620	0.0	480.0	400.0	621	0.0	480.0	440.0
622	0.0	480.0	480.0	623	0.0	640.0	440.0	624	0.0	720.0	440.0
625	0.0	800.0	360.0	626	0.0	800.0	400.0	627	0.0	800.0	440.0
628	0.0	520.0	360.0	629	0.0	520.0	400.0	630	0.0	520.0	440.0
631	0.0	520.0	480.0	632	0.0	640.0	480.0	633	0.0	800.0	480.0
634	0.0	800.0	520.0	635	0.0	800.0	560.0	636	0.0	760.0	360.0
637	0.0	560.0	360.0	638	0.0	560.0	400.0	639	0.0	560.0	440.0
640	0.0	560.0	480.0	641	0.0	640.0	520.0	642	0.0	720.0	480.0
643	0.0	720.0	520.0	644	0.0	840.0	360.0	645	1387.5	1080.0	480.0
646	1900.0	760.0	400.0	647	1900.0	760.0	560.0	648	1900.0	1080.0	440.0
649	1900.0	1080.0	480.0	650	1900.0	1080.0	520.0	651	1900.0	1080.0	560.0
652	1900.0	1080.0	600.0	653	1900.0	1080.0	640.0	654	1900.0	40.0	333.3
655	1900.0	80.0	346.7	656	1900.0	160.0	373.3	657	1900.0	200.0	386.7
658	1900.0	280.0	413.3	659	1900.0	320.0	426.7	660	1900.0	400.0	453.3
661	1900.0	440.0	466.7	662	1900.0	520.0	493.3	663	1900.0	560.0	506.7
664	1900.0	640.0	400.0	665	1900.0	640.0	533.3	666	1900.0	680.0	546.7
667	1900.0	760.0	573.3	668	1900.0	800.0	586.7	669	1900.0	880.0	613.3
670	1900.0	920.0	626.7	671	1900.0	1000.0	653.3	672	1900.0	1040.0	666.7
673	1900.0	120.0	360.0	674	1900.0	680.0	440.0	675	1900.0	840.0	400.0
676	1900.0	1000.0	360.0	677	1900.0	1000.0	400.0	678	1900.0	1000.0	440.0
679	1900.0	1000.0	480.0	680	1900.0	1000.0	520.0	681	1900.0	1000.0	560.0
682	1900.0	160.0	360.0	683	1900.0	680.0	480.0	684	1900.0	1000.0	600.0
685	1900.0	1000.0	640.0	686	1900.0	600.0	360.0	687	1900.0	1040.0	360.0
688	1900.0	1040.0	400.0	689	1900.0	1040.0	440.0	690	1900.0	1040.0	480.0
691	1900.0	200.0	360.0	692	1900.0	680.0	520.0	693	1900.0	1040.0	520.0
694	1900.0	1040.0	560.0	695	1900.0	1040.0	600.0	696	1900.0	1040.0	640.0
697	1900.0	600.0	400.0	698	1900.0	1080.0	360.0	699	1900.0	1080.0	400.0
700	1900.0	240.0	360.0	701	1900.0	240.0	400.0	702	1900.0	760.0	520.0
703	1900.0	720.0	560.0	704	1900.0	920.0	360.0	705	1900.0	920.0	400.0
706	1900.0	920.0	440.0	707	1900.0	920.0	480.0	708	1900.0	920.0	520.0
709	1900.0	280.0	360.0	710	1900.0	280.0	400.0	711	1900.0	680.0	360.0
712	1900.0	920.0	560.0	713	1900.0	920.0	600.0	714	1900.0	600.0	440.0
715	1900.0	720.0	360.0	716	1900.0	960.0	360.0	717	1900.0	960.0	400.0
718	1900.0	320.0	360.0	719	1900.0	320.0	400.0	720	1900.0	680.0	400.0
721	1900.0	960.0	440.0	722	1900.0	960.0	480.0	723	1900.0	960.0	520.0
724	1900.0	960.0	560.0	725	1900.0	960.0	600.0	726	1900.0	960.0	640.0
727	1900.0	360.0	360.0	728	1900.0	360.0	400.0	729	1900.0	360.0	440.0
730	1900.0	640.0	360.0	731	1900.0	840.0	440.0	732	1900.0	840.0	480.0
733	1900.0	840.0	520.0	734	1900.0	840.0	560.0	735	1900.0	840.0	600.0
736	1900.0	400.0	360.0	737	1900.0	400.0	400.0	738	1900.0	400.0	440.0
739	1900.0	760.0	440.0	740	1900.0	600.0	480.0	741	1900.0	720.0	400.0
742	1900.0	880.0	360.0	743	1900.0	880.0	400.0	744	1900.0	880.0	440.0
745	1900.0	440.0	360.0	746	1900.0	440.0	400.0	747	1900.0	440.0	440.0
748	1900.0	760.0	480.0	749	1900.0	880.0	480.0	750	1900.0	880.0	520.0
751	1900.0	880.0	560.0	752	1900.0	880.0	600.0	753	1900.0	600.0	520.0
754	1900.0	480.0	360.0	755	1900.0	480.0	400.0	756	1900.0	480.0	440.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
757	1900.0	480.0	480.0	758	1900.0	640.0	440.0	759	1900.0	720.0	440.0
760	1900.0	800.0	360.0	761	1900.0	800.0	400.0	762	1900.0	800.0	440.0
763	1900.0	520.0	360.0	764	1900.0	520.0	400.0	765	1900.0	520.0	440.0
766	1900.0	520.0	480.0	767	1900.0	640.0	480.0	768	1900.0	800.0	480.0
769	1900.0	800.0	520.0	770	1900.0	800.0	560.0	771	1900.0	760.0	360.0
772	1900.0	560.0	360.0	773	1900.0	560.0	400.0	774	1900.0	560.0	440.0
775	1900.0	560.0	480.0	776	1900.0	640.0	520.0	777	1900.0	720.0	480.0
778	1900.0	720.0	520.0	779	1900.0	840.0	360.0	780	1387.5	1080.0	320.0
781	387.5	120.0	40.0	782	387.5	120.0	0.0	783	387.5	120.0	80.0
784	387.5	120.0	120.0	785	387.5	120.0	160.0	786	387.5	120.0	200.0
787	387.5	120.0	240.0	788	387.5	120.0	280.0	789	387.5	120.0	320.0
790	387.5	80.0	40.0	791	387.5	80.0	0.0	792	387.5	80.0	80.0
793	387.5	80.0	120.0	794	387.5	80.0	160.0	795	387.5	80.0	200.0
796	387.5	80.0	240.0	797	387.5	80.0	280.0	798	387.5	80.0	320.0
799	387.5	40.0	40.0	800	387.5	40.0	80.0	801	387.5	40.0	120.0
802	387.5	40.0	160.0	803	387.5	40.0	200.0	804	387.5	40.0	240.0
805	387.5	40.0	280.0	806	387.5	40.0	320.0	807	387.5	40.0	333.3
808	387.5	80.0	346.7	809	387.5	120.0	360.0	810	1512.5	1080.0	480.0
811	1512.5	1080.0	320.0	812	762.5	120.0	40.0	813	762.5	120.0	0.0
814	762.5	120.0	80.0	815	762.5	120.0	120.0	816	762.5	120.0	160.0
817	762.5	120.0	200.0	818	762.5	120.0	240.0	819	762.5	120.0	280.0
820	762.5	120.0	320.0	821	762.5	80.0	40.0	822	762.5	80.0	0.0
823	762.5	80.0	80.0	824	762.5	80.0	120.0	825	762.5	80.0	160.0
826	762.5	80.0	200.0	827	762.5	80.0	240.0	828	762.5	80.0	280.0
829	762.5	80.0	320.0	830	762.5	40.0	40.0	831	762.5	40.0	80.0
832	762.5	40.0	120.0	833	762.5	40.0	160.0	834	762.5	40.0	200.0
835	762.5	40.0	240.0	836	762.5	40.0	280.0	837	762.5	40.0	320.0
838	762.5	40.0	333.3	839	762.5	80.0	346.7	840	762.5	120.0	360.0
841	1637.5	1080.0	480.0	842	1637.5	1080.0	320.0	843	1137.5	120.0	40.0
844	1137.5	120.0	0.0	845	1137.5	120.0	80.0	846	1137.5	120.0	120.0
847	1137.5	120.0	160.0	848	1137.5	120.0	200.0	849	1137.5	120.0	240.0
850	1137.5	120.0	280.0	851	1137.5	120.0	320.0	852	1137.5	80.0	40.0
853	1137.5	80.0	0.0	854	1137.5	80.0	80.0	855	1137.5	80.0	120.0
856	1137.5	80.0	160.0	857	1137.5	80.0	200.0	858	1137.5	80.0	240.0
859	1137.5	80.0	280.0	860	1137.5	80.0	320.0	861	1137.5	40.0	40.0
862	1137.5	40.0	80.0	863	1137.5	40.0	120.0	864	1137.5	40.0	160.0
865	1137.5	40.0	200.0	866	1137.5	40.0	240.0	867	1137.5	40.0	280.0
868	1137.5	40.0	320.0	869	1137.5	40.0	333.3	870	1137.5	80.0	346.7
871	1137.5	120.0	360.0	872	1762.5	1080.0	480.0	873	1762.5	1080.0	320.0
874	1512.5	120.0	40.0	875	1512.5	120.0	0.0	876	1512.5	120.0	80.0
877	1512.5	120.0	120.0	878	1512.5	120.0	160.0	879	1512.5	120.0	200.0
880	1512.5	120.0	240.0	881	1512.5	120.0	280.0	882	1512.5	120.0	320.0
883	1512.5	80.0	40.0	884	1512.5	80.0	0.0	885	1512.5	80.0	80.0
886	1512.5	80.0	120.0	887	1512.5	80.0	160.0	888	1512.5	80.0	200.0
889	1512.5	80.0	240.0	890	1512.5	80.0	280.0	891	1512.5	80.0	320.0
892	1512.5	40.0	40.0	893	1512.5	40.0	80.0	894	1512.5	40.0	120.0
895	1512.5	40.0	160.0	896	1512.5	40.0	200.0	897	1512.5	40.0	240.0
898	1512.5	40.0	280.0	899	1512.5	40.0	320.0	900	1512.5	40.0	333.3
901	1512.5	80.0	346.7	902	1512.5	120.0	360.0	903	804.2	120.0	40.0
904	804.2	120.0	0.0	905	804.2	120.0	80.0	906	804.2	120.0	120.0
907	804.2	120.0	160.0	908	804.2	120.0	200.0	909	804.2	120.0	240.0
910	804.2	120.0	280.0	911	804.2	120.0	320.0	912	804.2	120.0	360.0
913	845.8	120.0	40.0	914	845.8	120.0	0.0	915	845.8	120.0	80.0
916	845.8	120.0	120.0	917	845.8	120.0	160.0	918	845.8	120.0	200.0
919	845.8	120.0	240.0	920	845.8	120.0	280.0	921	845.8	120.0	320.0
922	845.8	120.0	360.0	923	900.0	120.0	40.0	924	887.5	120.0	0.0
925	900.0	120.0	80.0	926	887.5	120.0	120.0	927	887.5	120.0	160.0
928	887.5	120.0	200.0	929	887.5	120.0	240.0	930	887.5	120.0	280.0
931	887.5	120.0	320.0	932	887.5	120.0	360.0	933	929.2	120.0	40.0
934	929.2	120.0	0.0	935	929.2	120.0	80.0	936	929.2	120.0	120.0
937	929.2	120.0	160.0	938	929.2	120.0	200.0	939	929.2	120.0	240.0
940	929.2	120.0	280.0	941	929.2	120.0	320.0	942	929.2	120.0	360.0
943	970.8	120.0	40.0	944	970.8	120.0	0.0	945	970.8	120.0	80.0
946	970.8	120.0	120.0	947	970.8	120.0	160.0	948	970.8	120.0	200.0
949	970.8	120.0	240.0	950	970.8	120.0	280.0	951	970.8	120.0	320.0
952	970.8	120.0	360.0	953	1000.0	120.0	40.0	954	1012.5	120.0	0.0
955	1000.0	120.0	80.0	956	1012.5	120.0	120.0	957	1012.5	120.0	160.0
958	1012.5	120.0	200.0	959	1012.5	120.0	240.0	960	1012.5	120.0	280.0
961	1012.5	120.0	320.0	962	1012.5	120.0	360.0	963	1054.2	120.0	40.0
964	1054.2	120.0	0.0	965	1054.2	120.0	80.0	966	1054.2	120.0	120.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
967	1054.2	120.0	160.0	968	1054.2	120.0	200.0	969	1054.2	120.0	240.0
970	1054.2	120.0	280.0	971	1054.2	120.0	320.0	972	1054.2	120.0	360.0
973	1095.8	120.0	40.0	974	1095.8	120.0	0.0	975	1095.8	120.0	80.0
976	1095.8	120.0	120.0	977	1095.8	120.0	160.0	978	1095.8	120.0	200.0
979	1095.8	120.0	240.0	980	1095.8	120.0	280.0	981	1095.8	120.0	320.0
982	1095.8	120.0	360.0	983	387.5	1080.0	680.0	984	762.5	1080.0	680.0
985	887.5	1080.0	680.0	986	1012.5	1080.0	680.0	987	1137.5	1080.0	680.0
988	1512.5	1080.0	680.0	989	512.5	120.0	360.0	990	637.5	120.0	360.0
991	1262.5	120.0	360.0	992	1387.5	120.0	360.0	993	512.5	1080.0	680.0
994	637.5	1080.0	680.0	995	1262.5	1080.0	680.0	996	1387.5	1080.0	680.0
997	1637.5	120.0	360.0	998	1637.5	1080.0	680.0	999	1762.5	120.0	360.0
1000	1762.5	1080.0	680.0	1001	262.5	120.0	360.0	1002	262.5	1080.0	680.0
1003	137.5	120.0	360.0	1004	137.5	1080.0	680.0	1005	137.5	1080.0	480.0
1006	137.5	1080.0	320.0	1007	262.5	1080.0	480.0	1008	262.5	1080.0	320.0
1009	387.5	1080.0	480.0	1010	387.5	1080.0	320.0	1011	512.5	1080.0	480.0
1012	512.5	1080.0	320.0	1013	637.5	1080.0	480.0	1014	637.5	1080.0	320.0
1015	762.5	1080.0	480.0	1016	762.5	1080.0	320.0	1017	887.5	1080.0	480.0
1018	887.5	1080.0	320.0	1019	1012.5	1080.0	480.0	1020	1012.5	1080.0	320.0
1021	1137.5	1080.0	480.0	1022	1137.5	1080.0	320.0	1023	1262.5	1080.0	480.0
1024	1262.5	1080.0	320.0	1025	1762.5	440.0	466.7	1026	1637.5	440.0	466.7
1027	1512.5	440.0	466.7	1028	1387.5	440.0	466.7	1029	1262.5	440.0	466.7
1030	1137.5	440.0	466.7	1031	1012.5	440.0	466.7	1032	887.5	440.0	466.7
1033	762.5	440.0	466.7	1034	637.5	440.0	466.7	1035	512.5	440.0	466.7
1036	387.5	440.0	466.7	1037	262.5	440.0	466.7	1038	137.5	440.0	466.7
1039	1762.5	760.0	573.3	1040	1637.5	760.0	573.3	1041	1512.5	760.0	573.3
1042	1387.5	760.0	573.3	1043	1262.5	760.0	573.3	1044	1137.5	760.0	573.3
1045	1012.5	760.0	573.3	1046	887.5	760.0	573.3	1047	762.5	760.0	573.3
1048	637.5	760.0	573.3	1049	512.5	760.0	573.3	1050	387.5	760.0	573.3
1051	262.5	760.0	573.3	1052	137.5	760.0	573.3	1053	1900.0	1900.0	0.0
1054	1900.0	1900.0	40.0	1055	1900.0	1860.0	40.0	1056	1900.0	1860.0	0.0
1057	1900.0	1900.0	80.0	1058	1900.0	1860.0	80.0	1059	1900.0	1900.0	120.0
1060	1900.0	1860.0	120.0	1061	1900.0	1900.0	160.0	1062	1900.0	1860.0	160.0
1063	1900.0	1900.0	200.0	1064	1900.0	1860.0	200.0	1065	1900.0	1900.0	240.0
1066	1900.0	1860.0	240.0	1067	1900.0	1900.0	270.0	1068	1900.0	1860.0	280.0
1069	1900.0	1900.0	320.0	1070	1900.0	1860.0	320.0	1071	1900.0	1820.0	40.0
1072	1900.0	1820.0	0.0	1073	1900.0	1820.0	80.0	1074	1900.0	1820.0	120.0
1075	1900.0	1820.0	160.0	1076	1900.0	1820.0	200.0	1077	1900.0	1820.0	240.0
1078	1900.0	1820.0	280.0	1079	1900.0	1820.0	320.0	1080	1900.0	1780.0	40.0
1081	1900.0	1780.0	0.0	1082	1900.0	1780.0	80.0	1083	1900.0	1780.0	120.0
1084	1900.0	1780.0	160.0	1085	1900.0	1780.0	200.0	1086	1900.0	1780.0	240.0
1087	1900.0	1780.0	280.0	1088	1900.0	1780.0	320.0	1089	1900.0	1740.0	40.0
1090	1900.0	1740.0	0.0	1091	1900.0	1740.0	80.0	1092	1900.0	1740.0	120.0
1093	1900.0	1740.0	160.0	1094	1900.0	1740.0	200.0	1095	1900.0	1740.0	240.0
1096	1900.0	1740.0	280.0	1097	1900.0	1740.0	320.0	1098	1900.0	1700.0	40.0
1099	1900.0	1700.0	0.0	1100	1900.0	1700.0	80.0	1101	1900.0	1700.0	120.0
1102	1900.0	1700.0	160.0	1103	1900.0	1700.0	200.0	1104	1900.0	1700.0	240.0
1105	1900.0	1700.0	280.0	1106	1900.0	1700.0	320.0	1107	1900.0	1660.0	40.0
1108	1900.0	1660.0	0.0	1109	1900.0	1660.0	80.0	1110	1900.0	1660.0	120.0
1111	1900.0	1660.0	160.0	1112	1900.0	1660.0	200.0	1113	1900.0	1660.0	240.0
1114	1900.0	1660.0	280.0	1115	1900.0	1660.0	320.0	1116	1900.0	1600.0	40.0
1117	1900.0	1620.0	0.0	1118	1900.0	1600.0	80.0	1119	1900.0	1620.0	120.0
1120	1900.0	1620.0	160.0	1121	1900.0	1620.0	200.0	1122	1900.0	1620.0	240.0
1123	1900.0	1620.0	280.0	1124	1900.0	1620.0	320.0	1125	1900.0	1580.0	40.0
1126	1900.0	1580.0	0.0	1127	1900.0	1580.0	80.0	1128	1900.0	1580.0	120.0
1129	1900.0	1580.0	160.0	1130	1900.0	1580.0	200.0	1131	1900.0	1580.0	240.0
1132	1900.0	1580.0	280.0	1133	1900.0	1580.0	320.0	1134	1900.0	1540.0	40.0
1135	1900.0	1540.0	0.0	1136	1900.0	1540.0	80.0	1137	1900.0	1540.0	120.0
1138	1900.0	1540.0	160.0	1139	1900.0	1540.0	200.0	1140	1900.0	1540.0	240.0
1141	1900.0	1540.0	280.0	1142	1900.0	1540.0	320.0	1143	1900.0	1500.0	40.0
1144	1900.0	1500.0	0.0	1145	1900.0	1500.0	80.0	1146	1900.0	1500.0	120.0
1147	1900.0	1500.0	160.0	1148	1900.0	1500.0	200.0	1149	1900.0	1500.0	240.0
1150	1900.0	1500.0	280.0	1151	1900.0	1500.0	320.0	1152	1900.0	1460.0	40.0
1153	1900.0	1460.0	0.0	1154	1900.0	1460.0	80.0	1155	1900.0	1460.0	120.0
1156	1900.0	1460.0	160.0	1157	1900.0	1460.0	200.0	1158	1900.0	1460.0	240.0
1159	1900.0	1460.0	280.0	1160	1900.0	1460.0	320.0	1161	1900.0	1420.0	40.0
1162	1900.0	1420.0	0.0	1163	1900.0	1420.0	80.0	1164	1900.0	1420.0	120.0
1165	1900.0	1420.0	160.0	1166	1900.0	1420.0	200.0	1167	1900.0	1420.0	240.0
1168	1900.0	1420.0	280.0	1169	1900.0	1420.0	320.0	1170	1900.0	1380.0	40.0
1171	1900.0	1380.0	0.0	1172	1900.0	1380.0	80.0	1173	1900.0	1380.0	120.0
1174	1900.0	1380.0	160.0	1175	1900.0	1380.0	200.0	1176	1900.0	1380.0	240.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1177	1900.0	1380.0	280.0	1178	1900.0	1380.0	320.0	1179	1900.0	1340.0	40.0
1180	1900.0	1340.0	0.0	1181	1900.0	1340.0	80.0	1182	1900.0	1340.0	120.0
1183	1900.0	1340.0	160.0	1184	1900.0	1340.0	200.0	1185	1900.0	1340.0	240.0
1186	1900.0	1340.0	280.0	1187	1900.0	1340.0	320.0	1188	1900.0	1300.0	40.0
1189	1900.0	1300.0	0.0	1190	1900.0	1300.0	80.0	1191	1900.0	1300.0	120.0
1192	1900.0	1300.0	160.0	1193	1900.0	1300.0	200.0	1194	1900.0	1300.0	240.0
1195	1900.0	1300.0	280.0	1196	1900.0	1300.0	320.0	1197	1900.0	1260.0	40.0
1198	1900.0	1260.0	0.0	1199	1900.0	1260.0	80.0	1200	1900.0	1260.0	120.0
1201	1900.0	1260.0	160.0	1202	1900.0	1260.0	200.0	1203	1900.0	1260.0	240.0
1204	1900.0	1260.0	280.0	1205	1900.0	1260.0	320.0	1206	1790.0	1900.0	0.0
1207	1790.0	1900.0	40.0	1208	1826.7	1900.0	40.0	1209	1826.7	1900.0	0.0
1210	1790.0	1900.0	80.0	1211	1826.7	1900.0	80.0	1212	1790.0	1900.0	120.0
1213	1826.7	1900.0	120.0	1214	1790.0	1900.0	160.0	1215	1826.7	1900.0	160.0
1216	1790.0	1900.0	200.0	1217	1826.7	1900.0	200.0	1218	1790.0	1900.0	240.0
1219	1826.7	1900.0	240.0	1220	1790.0	1900.0	270.0	1221	1826.7	1900.0	270.0
1222	1790.0	1900.0	320.0	1223	1826.7	1900.0	320.0	1224	1863.3	1900.0	40.0
1225	1863.3	1900.0	0.0	1226	1863.3	1900.0	80.0	1227	1863.3	1900.0	120.0
1228	1863.3	1900.0	160.0	1229	1863.3	1900.0	200.0	1230	1863.3	1900.0	240.0
1231	1863.3	1900.0	270.0	1232	1863.3	1900.0	320.0	1233	1450.0	1900.0	0.0
1234	1150.0	1900.0	0.0	1235	1030.0	1900.0	0.0	1236	980.0	1900.0	0.0
1237	800.0	1900.0	0.0	1238	750.0	1900.0	0.0	1239	630.0	1900.0	0.0
1240	450.0	1900.0	0.0	1241	110.0	1900.0	0.0	1242	0.0	1900.0	-25.0
1243	0.0	1900.0	320.0	1244	110.0	1900.0	40.0	1245	73.3	1900.0	40.0
1246	73.3	1900.0	0.0	1247	110.0	1900.0	80.0	1248	73.3	1900.0	80.0
1249	110.0	1900.0	120.0	1250	73.3	1900.0	120.0	1251	110.0	1900.0	160.0
1252	73.3	1900.0	160.0	1253	110.0	1900.0	200.0	1254	73.3	1900.0	200.0
1255	110.0	1900.0	240.0	1256	73.3	1900.0	240.0	1257	110.0	1900.0	270.0
1258	73.3	1900.0	270.0	1259	110.0	1900.0	320.0	1260	73.3	1900.0	320.0
1261	36.7	1900.0	40.0	1262	36.7	1900.0	0.0	1263	36.7	1900.0	80.0
1264	36.7	1900.0	120.0	1265	36.7	1900.0	160.0	1266	36.7	1900.0	200.0
1267	36.7	1900.0	240.0	1268	36.7	1900.0	270.0	1269	36.7	1900.0	320.0
1270	0.0	1900.0	40.0	1271	0.0	1900.0	80.0	1272	0.0	1900.0	120.0
1273	0.0	1900.0	160.0	1274	0.0	1900.0	200.0	1275	0.0	1900.0	240.0
1276	0.0	1900.0	270.0	1277	1450.0	1900.0	320.0	1278	1150.0	1900.0	40.0
1279	1187.5	1900.0	40.0	1280	1187.5	1900.0	0.0	1281	1150.0	1900.0	80.0
1282	1187.5	1900.0	80.0	1283	1150.0	1900.0	120.0	1284	1187.5	1900.0	120.0
1285	1150.0	1900.0	160.0	1286	1187.5	1900.0	160.0	1287	1150.0	1900.0	200.0
1288	1187.5	1900.0	200.0	1289	1150.0	1900.0	240.0	1290	1187.5	1900.0	240.0
1291	1150.0	1900.0	270.0	1292	1187.5	1900.0	270.0	1293	1150.0	1900.0	320.0
1294	1187.5	1900.0	320.0	1295	1225.0	1900.0	40.0	1296	1225.0	1900.0	0.0
1297	1225.0	1900.0	80.0	1298	1225.0	1900.0	120.0	1299	1225.0	1900.0	160.0
1300	1225.0	1900.0	200.0	1301	1225.0	1900.0	240.0	1302	1225.0	1900.0	270.0
1303	1225.0	1900.0	320.0	1304	1262.5	1900.0	40.0	1305	1262.5	1900.0	0.0
1306	1262.5	1900.0	80.0	1307	1262.5	1900.0	120.0	1308	1262.5	1900.0	160.0
1309	1262.5	1900.0	200.0	1310	1262.5	1900.0	240.0	1311	1262.5	1900.0	270.0
1312	1262.5	1900.0	320.0	1313	1300.0	1900.0	40.0	1314	1300.0	1900.0	0.0
1315	1300.0	1900.0	80.0	1316	1300.0	1900.0	120.0	1317	1300.0	1900.0	160.0
1318	1300.0	1900.0	200.0	1319	1300.0	1900.0	240.0	1320	1300.0	1900.0	270.0
1321	1300.0	1900.0	320.0	1322	1337.5	1900.0	40.0	1323	1337.5	1900.0	0.0
1324	1337.5	1900.0	80.0	1325	1337.5	1900.0	120.0	1326	1337.5	1900.0	160.0
1327	1337.5	1900.0	200.0	1328	1337.5	1900.0	240.0	1329	1337.5	1900.0	270.0
1330	1337.5	1900.0	320.0	1331	1375.0	1900.0	40.0	1332	1375.0	1900.0	0.0
1333	1375.0	1900.0	80.0	1334	1375.0	1900.0	120.0	1335	1375.0	1900.0	160.0
1336	1375.0	1900.0	200.0	1337	1375.0	1900.0	240.0	1338	1375.0	1900.0	270.0
1339	1375.0	1900.0	320.0	1340	1412.5	1900.0	40.0	1341	1412.5	1900.0	0.0
1342	1412.5	1900.0	80.0	1343	1412.5	1900.0	120.0	1344	1412.5	1900.0	160.0
1345	1412.5	1900.0	200.0	1346	1412.5	1900.0	240.0	1347	1412.5	1900.0	270.0
1348	1412.5	1900.0	320.0	1349	1450.0	1900.0	40.0	1350	1450.0	1900.0	80.0
1351	1450.0	1900.0	120.0	1352	1450.0	1900.0	160.0	1353	1450.0	1900.0	200.0
1354	1450.0	1900.0	240.0	1355	1450.0	1900.0	270.0	1356	1030.0	1900.0	320.0
1357	980.0	1900.0	40.0	1358	1030.0	1900.0	40.0	1359	980.0	1900.0	80.0
1360	1030.0	1900.0	80.0	1361	980.0	1900.0	120.0	1362	1030.0	1900.0	120.0
1363	980.0	1900.0	160.0	1364	1030.0	1900.0	160.0	1365	980.0	1900.0	200.0
1366	1030.0	1900.0	200.0	1367	980.0	1900.0	240.0	1368	1030.0	1900.0	240.0
1369	980.0	1900.0	270.0	1370	1030.0	1900.0	270.0	1371	980.0	1900.0	320.0
1372	800.0	1900.0	320.0	1373	750.0	1900.0	40.0	1374	800.0	1900.0	40.0
1375	750.0	1900.0	80.0	1376	800.0	1900.0	80.0	1377	750.0	1900.0	120.0
1378	800.0	1900.0	120.0	1379	750.0	1900.0	160.0	1380	800.0	1900.0	160.0
1381	750.0	1900.0	200.0	1382	800.0	1900.0	200.0	1383	750.0	1900.0	240.0
1384	800.0	1900.0	240.0	1385	750.0	1900.0	270.0	1386	800.0	1900.0	270.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1387	750.0	1900.0	320.0	1388	630.0	1900.0	320.0	1389	450.0	1900.0	40.0
1390	495.0	1900.0	40.0	1391	495.0	1900.0	0.0	1392	450.0	1900.0	80.0
1393	495.0	1900.0	80.0	1394	450.0	1900.0	120.0	1395	495.0	1900.0	120.0
1396	450.0	1900.0	160.0	1397	495.0	1900.0	160.0	1398	450.0	1900.0	200.0
1399	495.0	1900.0	200.0	1400	450.0	1900.0	240.0	1401	495.0	1900.0	240.0
1402	450.0	1900.0	270.0	1403	495.0	1900.0	270.0	1404	450.0	1900.0	320.0
1405	495.0	1900.0	320.0	1406	540.0	1900.0	40.0	1407	540.0	1900.0	0.0
1408	540.0	1900.0	80.0	1409	540.0	1900.0	120.0	1410	540.0	1900.0	160.0
1411	540.0	1900.0	200.0	1412	540.0	1900.0	240.0	1413	540.0	1900.0	270.0
1414	540.0	1900.0	320.0	1415	585.0	1900.0	40.0	1416	585.0	1900.0	0.0
1417	585.0	1900.0	80.0	1418	585.0	1900.0	120.0	1419	585.0	1900.0	160.0
1420	585.0	1900.0	200.0	1421	585.0	1900.0	240.0	1422	585.0	1900.0	270.0
1423	585.0	1900.0	320.0	1424	630.0	1900.0	40.0	1425	630.0	1900.0	80.0
1426	630.0	1900.0	120.0	1427	630.0	1900.0	160.0	1428	630.0	1900.0	200.0
1429	630.0	1900.0	240.0	1430	630.0	1900.0	270.0	1431	0.0	1820.0	0.0
1432	0.0	1700.0	0.0	1433	0.0	1560.0	0.0	1434	0.0	1210.0	0.0
1435	1900.0	1220.0	320.0	1436	1900.0	1126.7	40.0	1437	1900.0	1126.7	0.0
1438	1900.0	1126.7	80.0	1439	1900.0	1126.7	120.0	1440	1900.0	1126.7	160.0
1441	1900.0	1126.7	200.0	1442	1900.0	1126.7	240.0	1443	1900.0	1126.7	280.0
1444	1900.0	1126.7	320.0	1445	1900.0	1173.3	40.0	1446	1900.0	1173.3	0.0
1447	1900.0	1173.3	80.0	1448	1900.0	1173.3	120.0	1449	1900.0	1173.3	160.0
1450	1900.0	1173.3	200.0	1451	1900.0	1173.3	240.0	1452	1900.0	1173.3	280.0
1453	1900.0	1173.3	320.0	1454	1900.0	1220.0	40.0	1455	1900.0	1220.0	0.0
1456	1900.0	1220.0	80.0	1457	1900.0	1220.0	120.0	1458	1900.0	1220.0	160.0
1459	1900.0	1220.0	200.0	1460	1900.0	1220.0	240.0	1461	1900.0	1220.0	280.0
1462	0.0	1820.0	40.0	1463	0.0	1860.0	40.0	1464	0.0	1860.0	0.0
1465	0.0	1820.0	80.0	1466	0.0	1860.0	80.0	1467	0.0	1820.0	120.0
1468	0.0	1860.0	120.0	1469	0.0	1820.0	160.0	1470	0.0	1860.0	160.0
1471	0.0	1820.0	200.0	1472	0.0	1860.0	200.0	1473	0.0	1820.0	240.0
1474	0.0	1860.0	240.0	1475	0.0	1820.0	280.0	1476	0.0	1860.0	280.0
1477	0.0	1820.0	320.0	1478	0.0	1860.0	320.0	1479	0.0	1700.0	320.0
1480	0.0	1560.0	40.0	1481	0.0	1586.7	40.0	1482	0.0	1606.7	0.0
1483	0.0	1560.0	80.0	1484	0.0	1586.7	80.0	1485	0.0	1560.0	120.0
1486	0.0	1606.7	120.0	1487	0.0	1560.0	160.0	1488	0.0	1606.7	160.0
1489	0.0	1560.0	200.0	1490	0.0	1606.7	200.0	1491	0.0	1560.0	240.0
1492	0.0	1606.7	240.0	1493	0.0	1560.0	280.0	1494	0.0	1606.7	280.0
1495	0.0	1560.0	320.0	1496	0.0	1606.7	320.0	1497	0.0	1673.3	40.0
1498	0.0	1653.3	0.0	1499	0.0	1673.3	80.0	1500	0.0	1653.3	120.0
1501	0.0	1653.3	160.0	1502	0.0	1653.3	200.0	1503	0.0	1653.3	240.0
1504	0.0	1653.3	280.0	1505	0.0	1653.3	320.0	1506	0.0	1700.0	40.0
1507	0.0	1700.0	80.0	1508	0.0	1700.0	120.0	1509	0.0	1700.0	160.0
1510	0.0	1700.0	200.0	1511	0.0	1700.0	240.0	1512	0.0	1700.0	280.0
1513	0.0	1210.0	40.0	1514	0.0	1166.7	40.0	1515	0.0	1166.7	0.0
1516	0.0	1210.0	80.0	1517	0.0	1166.7	80.0	1518	0.0	1210.0	120.0
1519	0.0	1166.7	120.0	1520	0.0	1210.0	160.0	1521	0.0	1166.7	160.0
1522	0.0	1210.0	200.0	1523	0.0	1166.7	200.0	1524	0.0	1210.0	240.0
1525	0.0	1166.7	240.0	1526	0.0	1210.0	280.0	1527	0.0	1166.7	280.0
1528	0.0	1210.0	320.0	1529	0.0	1166.7	320.0	1530	0.0	1123.3	40.0
1531	0.0	1123.3	0.0	1532	0.0	1123.3	80.0	1533	0.0	1123.3	120.0
1534	0.0	1123.3	160.0	1535	0.0	1123.3	200.0	1536	0.0	1123.3	240.0
1537	0.0	1123.3	280.0	1538	0.0	1123.3	320.0	1539	1752.2	1900.0	40.0
1540	1752.2	1900.0	0.0	1541	1752.2	1900.0	80.0	1542	1752.2	1900.0	120.0
1543	1714.4	1900.0	40.0	1544	1714.4	1900.0	0.0	1545	1714.4	1900.0	80.0
1546	1714.4	1900.0	120.0	1547	1676.7	1900.0	40.0	1548	1676.7	1900.0	0.0
1549	1676.7	1900.0	80.0	1550	1676.7	1900.0	120.0	1551	1638.9	1900.0	40.0
1552	1638.9	1900.0	0.0	1553	1638.9	1900.0	80.0	1554	1638.9	1900.0	120.0
1555	1601.1	1900.0	40.0	1556	1601.1	1900.0	0.0	1557	1601.1	1900.0	80.0
1558	1601.1	1900.0	120.0	1559	1563.3	1900.0	40.0	1560	1563.3	1900.0	0.0
1561	1563.3	1900.0	80.0	1562	1563.3	1900.0	120.0	1563	1525.6	1900.0	40.0
1564	1525.6	1900.0	0.0	1565	1525.6	1900.0	80.0	1566	1525.6	1900.0	120.0
1567	1487.8	1900.0	40.0	1568	1487.8	1900.0	0.0	1569	1487.8	1900.0	80.0
1570	1487.8	1900.0	120.0	1571	1752.2	1900.0	240.0	1572	1752.2	1900.0	200.0
1573	1752.2	1900.0	270.0	1574	1752.2	1900.0	320.0	1575	1714.4	1900.0	240.0
1576	1714.4	1900.0	200.0	1577	1714.4	1900.0	270.0	1578	1714.4	1900.0	320.0
1579	1676.7	1900.0	240.0	1580	1676.7	1900.0	200.0	1581	1676.7	1900.0	270.0
1582	1676.7	1900.0	320.0	1583	1638.9	1900.0	240.0	1584	1638.9	1900.0	200.0
1585	1638.9	1900.0	270.0	1586	1638.9	1900.0	320.0	1587	1601.1	1900.0	240.0
1588	1601.1	1900.0	200.0	1589	1601.1	1900.0	270.0	1590	1601.1	1900.0	320.0
1591	1563.3	1900.0	240.0	1592	1563.3	1900.0	200.0	1593	1563.3	1900.0	270.0
1594	1563.3	1900.0	320.0	1595	1525.6	1900.0	240.0	1596	1525.6	1900.0	200.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1597	1525.6	1900.0	270.0	1598	1525.6	1900.0	320.0	1599	1487.8	1900.0	240.0
1600	1487.8	1900.0	200.0	1601	1487.8	1900.0	270.0	1602	1487.8	1900.0	320.0
1603	412.2	1900.0	40.0	1604	412.2	1900.0	0.0	1605	412.2	1900.0	80.0
1606	412.2	1900.0	120.0	1607	374.4	1900.0	40.0	1608	374.4	1900.0	0.0
1609	374.4	1900.0	80.0	1610	374.4	1900.0	120.0	1611	336.7	1900.0	40.0
1612	336.7	1900.0	0.0	1613	336.7	1900.0	80.0	1614	336.7	1900.0	120.0
1615	298.9	1900.0	40.0	1616	298.9	1900.0	0.0	1617	298.9	1900.0	80.0
1618	298.9	1900.0	120.0	1619	261.1	1900.0	40.0	1620	261.1	1900.0	0.0
1621	261.1	1900.0	80.0	1622	261.1	1900.0	120.0	1623	223.3	1900.0	40.0
1624	223.3	1900.0	0.0	1625	223.3	1900.0	80.0	1626	223.3	1900.0	120.0
1627	185.6	1900.0	40.0	1628	185.6	1900.0	0.0	1629	185.6	1900.0	80.0
1630	185.6	1900.0	120.0	1631	147.8	1900.0	40.0	1632	147.8	1900.0	0.0
1633	147.8	1900.0	80.0	1634	147.8	1900.0	120.0	1635	412.2	1900.0	240.0
1636	412.2	1900.0	200.0	1637	412.2	1900.0	270.0	1638	412.2	1900.0	320.0
1639	374.4	1900.0	240.0	1640	374.4	1900.0	200.0	1641	374.4	1900.0	270.0
1642	374.4	1900.0	320.0	1643	336.7	1900.0	240.0	1644	336.7	1900.0	200.0
1645	336.7	1900.0	270.0	1646	336.7	1900.0	320.0	1647	298.9	1900.0	240.0
1648	298.9	1900.0	200.0	1649	298.9	1900.0	270.0	1650	298.9	1900.0	320.0
1651	261.1	1900.0	240.0	1652	261.1	1900.0	200.0	1653	261.1	1900.0	270.0
1654	1900.0	0.0	0.0	1655	1900.0	40.0	0.0	1656	1900.0	1040.0	40.0
1657	1900.0	1040.0	0.0	1658	1900.0	1040.0	80.0	1659	1900.0	1000.0	40.0
1660	1900.0	1000.0	0.0	1661	1900.0	1000.0	80.0	1662	1900.0	960.0	40.0
1663	1900.0	960.0	0.0	1664	1900.0	960.0	80.0	1665	1900.0	900.0	40.0
1666	1900.0	920.0	0.0	1667	1900.0	900.0	80.0	1668	1900.0	880.0	40.0
1669	1900.0	880.0	0.0	1670	1900.0	880.0	80.0	1671	1900.0	840.0	40.0
1672	1900.0	840.0	0.0	1673	1900.0	840.0	80.0	1674	1900.0	810.0	40.0
1675	1900.0	800.0	0.0	1676	1900.0	810.0	80.0	1677	1900.0	760.0	40.0
1678	1900.0	760.0	0.0	1679	1900.0	760.0	80.0	1680	1900.0	710.0	40.0
1681	1900.0	720.0	0.0	1682	1900.0	710.0	80.0	1683	1900.0	680.0	80.0
1684	1900.0	640.0	40.0	1685	1900.0	640.0	0.0	1686	1900.0	640.0	80.0
1687	1900.0	600.0	40.0	1688	1900.0	600.0	0.0	1689	1900.0	600.0	80.0
1690	1900.0	560.0	40.0	1691	1900.0	560.0	0.0	1692	1900.0	560.0	80.0
1693	1900.0	520.0	40.0	1694	1900.0	520.0	0.0	1695	1900.0	520.0	80.0
1696	1900.0	480.0	40.0	1697	1900.0	480.0	0.0	1698	1900.0	480.0	80.0
1699	1900.0	420.0	40.0	1700	1900.0	440.0	0.0	1701	1900.0	420.0	80.0
1702	1900.0	400.0	40.0	1703	1900.0	400.0	0.0	1704	1900.0	400.0	80.0
1705	1900.0	360.0	40.0	1706	1900.0	360.0	0.0	1707	1900.0	360.0	80.0
1708	1900.0	330.0	40.0	1709	1900.0	320.0	0.0	1710	1900.0	330.0	80.0
1711	1900.0	280.0	40.0	1712	1900.0	280.0	0.0	1713	1900.0	280.0	80.0
1714	1900.0	230.0	40.0	1715	1900.0	240.0	0.0	1716	1900.0	230.0	80.0
1717	1900.0	200.0	40.0	1718	1900.0	200.0	0.0	1719	1900.0	200.0	80.0
1720	1900.0	160.0	40.0	1721	1900.0	160.0	0.0	1722	1900.0	160.0	80.0
1723	1900.0	120.0	40.0	1724	1900.0	120.0	0.0	1725	1900.0	120.0	80.0
1726	1900.0	80.0	40.0	1727	1900.0	80.0	0.0	1728	1900.0	80.0	80.0
1729	1900.0	40.0	40.0	1730	1900.0	40.0	80.0	1731	1900.0	0.0	40.0
1732	1900.0	0.0	80.0	1733	387.5	0.0	320.0	1734	762.5	0.0	320.0
1735	1137.5	0.0	320.0	1736	1512.5	0.0	320.0	1737	1839.0	1943.0	-25.0
1738	1839.0	1943.0	270.0	1739	1839.0	2323.0	-25.0	1740	1839.0	2323.0	270.0
1741	2209.0	1943.0	-25.0	1742	2209.0	1943.0	270.0	1743	2209.0	2323.0	-25.0
1744	2209.0	2323.0	270.0	1745	2579.0	1943.0	-25.0	1746	2579.0	1943.0	270.0
1747	2579.0	2323.0	-25.0	1748	2579.0	2323.0	270.0	1749	2949.0	1943.0	-25.0
1750	2949.0	1943.0	270.0	1751	2949.0	2323.0	-25.0	1752	2949.0	2323.0	270.0
1753	1469.0	2323.0	-25.0	1754	1469.0	2323.0	270.0	1755	1099.0	2323.0	-25.0
1756	1099.0	2323.0	270.0	1757	729.0	2323.0	-25.0	1758	729.0	2323.0	270.0
1759	359.0	2323.0	-25.0	1760	359.0	2323.0	270.0	1761	0.0	2323.0	-25.0
1762	0.0	2323.0	270.0	1763	1900.0	0.0	-113.7	1764	1900.0	40.0	-113.7
1765	1900.0	80.0	-113.7	1766	1900.0	120.0	-113.7	1767	1900.0	160.0	-113.7
1768	1900.0	200.0	-113.7	1769	1900.0	240.0	-113.7	1770	1900.0	280.0	-113.7
1771	1900.0	320.0	-113.7	1772	1900.0	360.0	-113.7	1773	1900.0	400.0	-113.7
1774	1900.0	440.0	-113.7	1775	1900.0	480.0	-113.7	1776	1900.0	520.0	-113.7
1777	1900.0	560.0	-113.7	1778	1900.0	600.0	-113.7	1779	1900.0	640.0	-113.7
1780	1900.0	680.0	0.0	1781	1900.0	680.0	-113.7	1782	1900.0	720.0	-113.7
1783	1900.0	760.0	-113.7	1784	1900.0	800.0	-113.7	1785	1900.0	840.0	-113.7
1786	1900.0	880.0	-113.7	1787	1900.0	920.0	-113.7	1788	1900.0	960.0	-113.7
1789	1900.0	1000.0	-113.7	1790	1900.0	1040.0	-113.7	1792	1900.0	1126.7	-113.7
1793	1900.0	1173.3	-113.7	1794	1900.0	1220.0	-113.7	1795	1900.0	1260.0	-113.7
1796	1900.0	1300.0	-113.7	1797	1900.0	1340.0	-113.7	1798	1900.0	1380.0	-113.7
1799	1900.0	1420.0	-113.7	1800	1900.0	1460.0	-113.7	1801	1900.0	1500.0	-113.7
1802	1900.0	1540.0	-113.7	1803	1900.0	1580.0	-113.7	1804	1900.0	1620.0	-113.7
1805	1900.0	1660.0	-113.7	1806	1900.0	1700.0	-113.7	1807	1900.0	1740.0	-113.7



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1808	1900.0	1780.0	-113.7	1809	1900.0	1820.0	-113.7	1810	1900.0	1860.0	-113.7
1811	1900.0	1900.0	-113.7	1812	0.0	0.0	-113.7	1813	0.0	40.0	-113.7
1814	0.0	80.0	-113.7	1815	0.0	120.0	-113.7	1816	0.0	160.0	-113.7
1817	0.0	200.0	-113.7	1818	0.0	240.0	-113.7	1819	0.0	280.0	-113.7
1820	0.0	320.0	-113.7	1821	0.0	360.0	-113.7	1822	0.0	400.0	-113.7
1823	0.0	440.0	-113.7	1824	0.0	480.0	-113.7	1825	0.0	520.0	-113.7
1826	0.0	560.0	-113.7	1827	0.0	600.0	-113.7	1828	0.0	640.0	-113.7
1829	0.0	680.0	-113.7	1830	0.0	720.0	-113.7	1831	0.0	760.0	-113.7
1832	0.0	800.0	-113.7	1833	0.0	840.0	-113.7	1834	0.0	880.0	-113.7
1835	0.0	920.0	-113.7	1836	0.0	960.0	-113.7	1837	0.0	1000.0	-113.7
1838	0.0	1040.0	-113.7	1840	0.0	1500.0	-113.7	1841	0.0	1860.0	-113.7
1842	0.0	1900.0	-113.7	1843	1450.0	1900.0	-55.0	1844	1412.5	1900.0	-55.0
1845	0.0	1700.0	-113.7	1846	1375.0	1900.0	-55.0	1847	1337.5	1900.0	-55.0
1848	0.0	1820.0	-113.7	1849	0.0	1123.3	-113.7	1850	0.0	1166.7	-113.7
1851	0.0	1210.0	-113.7	1852	1300.0	1900.0	-55.0	1853	1262.5	1900.0	-55.0
1854	1225.0	1900.0	-55.0	1855	1187.5	1900.0	-55.0	1856	1150.0	1900.0	-55.0
1857	1030.0	1900.0	-55.0	1858	980.0	1900.0	-55.0	1859	800.0	1900.0	-55.0
1860	750.0	1900.0	-55.0	1861	630.0	1900.0	-55.0	1862	450.0	1900.0	-55.0
1863	110.0	1900.0	-55.0	1864	147.8	1900.0	-55.0	1865	387.5	120.0	-113.7
1866	73.3	1900.0	-55.0	1867	36.7	1900.0	-55.0	1868	0.0	1560.0	-113.7
1869	0.0	1606.7	-113.7	1870	0.0	1653.3	-113.7	1871	1137.5	120.0	-113.7
1872	1095.8	120.0	-113.7	1873	1054.2	120.0	-113.7	1874	1012.5	120.0	-113.7
1875	970.8	120.0	-113.7	1876	929.2	120.0	-113.7	1877	887.5	120.0	-113.7
1878	845.8	120.0	-113.7	1879	804.2	120.0	-113.7	1880	762.5	120.0	-113.7
1881	1512.5	40.0	-113.7	1882	1512.5	120.0	-113.7	1883	1512.5	80.0	-113.7
1884	1137.5	40.0	-113.7	1885	387.5	80.0	-113.7	1886	1137.5	80.0	-113.7
1887	762.5	40.0	-113.7	1888	762.5	80.0	-113.7	1889	387.5	40.0	-113.7
1890	1863.3	1900.0	-113.7	1891	1826.7	1900.0	-113.7	1892	1790.0	1900.0	-113.7
1893	1752.2	1900.0	-113.7	1894	1714.4	1900.0	-113.7	1895	1676.7	1900.0	-113.7
1896	1638.9	1900.0	-113.7	1897	1601.1	1900.0	-113.7	1898	1563.3	1900.0	-113.7
1899	1525.6	1900.0	-113.7	1900	1487.8	1900.0	-113.7	1901	1450.0	1900.0	-113.7
1902	1412.5	1900.0	-113.7	1903	1375.0	1900.0	-113.7	1904	1337.5	1900.0	-113.7
1905	1300.0	1900.0	-113.7	1906	1262.5	1900.0	-113.7	1907	1225.0	1900.0	-113.7
1908	1187.5	1900.0	-113.7	1909	1150.0	1900.0	-113.7	1910	1030.0	1900.0	-113.7
1911	980.0	1900.0	-113.7	1912	800.0	1900.0	-113.7	1913	750.0	1900.0	-113.7
1914	630.0	1900.0	-113.7	1915	450.0	1900.0	-113.7	1916	110.0	1900.0	-113.7
1917	147.8	1900.0	-113.7	1918	73.3	1900.0	-113.7	1919	36.7	1900.0	-113.7
1920	495.0	1900.0	-113.7	1921	540.0	1900.0	-113.7	1922	585.0	1900.0	-113.7
1923	412.2	1900.0	-113.7	1924	374.4	1900.0	-113.7	1925	336.7	1900.0	-113.7
1926	298.9	1900.0	-113.7	1927	261.1	1900.0	-113.7	1928	223.3	1900.0	-113.7
1929	185.6	1900.0	-113.7	1930	1900.0	680.0	40.0	1931	1900.0	0.0	-55.0
1932	1900.0	40.0	-55.0	1933	1900.0	80.0	-55.0	1934	1900.0	120.0	-55.0
1935	1900.0	160.0	-55.0	1936	1900.0	200.0	-55.0	1937	1900.0	240.0	-55.0
1938	1900.0	280.0	-55.0	1939	1900.0	320.0	-55.0	1940	1900.0	360.0	-55.0
1941	1900.0	400.0	-55.0	1942	1900.0	440.0	-55.0	1943	1900.0	480.0	-55.0
1944	1900.0	520.0	-55.0	1945	1900.0	560.0	-55.0	1946	1900.0	600.0	-55.0
1947	1900.0	640.0	-55.0	1948	1900.0	680.0	-55.0	1949	1900.0	720.0	-55.0
1950	1900.0	760.0	-55.0	1951	1900.0	800.0	-55.0	1952	1900.0	840.0	-55.0
1953	1900.0	880.0	-55.0	1954	1900.0	920.0	-55.0	1955	1900.0	960.0	-55.0
1956	1900.0	1000.0	-55.0	1957	1900.0	1040.0	-55.0	1958	1900.0	1080.0	-55.0
1959	1900.0	1126.7	-55.0	1960	1900.0	1173.3	-55.0	1961	1900.0	1220.0	-55.0
1962	1900.0	1260.0	-55.0	1963	1900.0	1300.0	-55.0	1964	1900.0	1340.0	-55.0
1965	1900.0	1380.0	-55.0	1966	1900.0	1420.0	-55.0	1967	1900.0	1460.0	-55.0
1968	1900.0	1500.0	-55.0	1969	1900.0	1540.0	-55.0	1970	1900.0	1580.0	-55.0
1971	1900.0	1620.0	-55.0	1972	1900.0	1660.0	-55.0	1973	1900.0	1700.0	-55.0
1974	1900.0	1740.0	-55.0	1975	1900.0	1780.0	-55.0	1976	1900.0	1820.0	-55.0
1977	1900.0	1860.0	-55.0	1978	1900.0	1900.0	-55.0	1979	0.0	0.0	-55.0
1980	0.0	40.0	-55.0	1981	0.0	80.0	-55.0	1982	0.0	120.0	-55.0
1983	0.0	160.0	-55.0	1984	0.0	200.0	-55.0	1985	0.0	240.0	-55.0
1986	0.0	280.0	-55.0	1987	0.0	320.0	-55.0	1988	0.0	360.0	-55.0
1989	0.0	400.0	-55.0	1990	0.0	440.0	-55.0	1991	0.0	480.0	-55.0
1992	0.0	520.0	-55.0	1993	0.0	560.0	-55.0	1994	0.0	600.0	-55.0
1995	0.0	640.0	-55.0	1996	0.0	680.0	-55.0	1997	0.0	720.0	-55.0
1998	0.0	760.0	-55.0	1999	0.0	800.0	-55.0	2000	0.0	840.0	-55.0
2001	0.0	880.0	-55.0	2002	0.0	920.0	-55.0	2003	0.0	960.0	-55.0
2004	0.0	1000.0	-55.0	2005	0.0	1040.0	-55.0	2006	0.0	1080.0	-55.0
2007	495.0	1900.0	-55.0	2008	0.0	1860.0	-55.0	2009	0.0	1900.0	-55.0
2010	0.0	1700.0	-55.0	2011	540.0	1900.0	-55.0	2012	585.0	1900.0	-55.0
2013	0.0	1820.0	-55.0	2014	0.0	1123.3	-55.0	2015	0.0	1166.7	-55.0
2016	0.0	1210.0	-55.0	2017	412.2	1900.0	-55.0	2018	374.4	1900.0	-55.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
2019	336.7	1900.0	-55.0	2020	298.9	1900.0	-55.0	2021	261.1	1900.0	-55.0
2022	223.3	1900.0	-55.0	2023	387.5	120.0	-55.0	2024	185.6	1900.0	-55.0
2025	0.0	1560.0	-55.0	2026	0.0	1606.7	-55.0	2027	0.0	1653.3	-55.0
2028	1137.5	120.0	-55.0	2029	1095.8	120.0	-55.0	2030	1054.2	120.0	-55.0
2031	1012.5	120.0	-55.0	2032	970.8	120.0	-55.0	2033	929.2	120.0	-55.0
2034	887.5	120.0	-55.0	2035	845.8	120.0	-55.0	2036	804.2	120.0	-55.0
2037	762.5	120.0	-55.0	2038	1512.5	40.0	-55.0	2039	1512.5	120.0	-55.0
2040	1512.5	80.0	-55.0	2041	1137.5	40.0	-55.0	2042	387.5	80.0	-55.0
2043	1137.5	80.0	-55.0	2044	762.5	40.0	-55.0	2045	762.5	80.0	-55.0
2046	387.5	40.0	-55.0	2047	1863.3	1900.0	-55.0	2048	1826.7	1900.0	-55.0
2049	1790.0	1900.0	-55.0	2050	1752.2	1900.0	-55.0	2051	1714.4	1900.0	-55.0
2052	1676.7	1900.0	-55.0	2053	1638.9	1900.0	-55.0	2054	1601.1	1900.0	-55.0
2055	1563.3	1900.0	-55.0	2056	1525.6	1900.0	-55.0	2057	1487.8	1900.0	-55.0
2058	3139.0	1943.0	270.0	2060	100.0	1080.0	-113.7	2061	200.0	1080.0	-113.7
2062	300.0	1080.0	-113.7	2063	400.0	1080.0	-113.7	2064	500.0	1080.0	-113.7
2065	600.0	1080.0	-113.7	2066	700.0	1080.0	-113.7	2067	800.0	1080.0	-113.7
2068	900.0	1080.0	-113.7	2069	1000.0	1080.0	-113.7	2070	1100.0	1080.0	-113.7
2071	1200.0	1080.0	-113.7	2072	1300.0	1080.0	-113.7	2073	1400.0	1080.0	-113.7
2074	1500.0	1080.0	-113.7	2075	1600.0	1080.0	-113.7	2076	1700.0	1080.0	-113.7
2077	1800.0	1080.0	-113.7	2078	100.0	1500.0	-113.7	2079	200.0	1500.0	-113.7
2080	300.0	1500.0	-113.7	2081	400.0	1500.0	-113.7	2082	500.0	1500.0	-113.7
2083	600.0	1500.0	-113.7	2084	700.0	1500.0	-113.7	2085	800.0	1500.0	-113.7
2086	900.0	1500.0	-113.7	2087	1000.0	1500.0	-113.7	2088	1100.0	1500.0	-113.7
2089	1200.0	1500.0	-113.7	2090	1300.0	1500.0	-113.7	2091	1400.0	1500.0	-113.7
2092	1500.0	1500.0	-113.7	2093	1600.0	1500.0	-113.7	2094	1700.0	1500.0	-113.7
2095	1800.0	1500.0	-113.7	2096	100.0	600.0	-113.7	2097	200.0	600.0	-113.7
2098	300.0	600.0	-113.7	2099	400.0	600.0	-113.7	2100	500.0	600.0	-113.7
2101	600.0	600.0	-113.7	2102	700.0	600.0	-113.7	2103	800.0	600.0	-113.7
2104	900.0	600.0	-113.7	2105	1000.0	600.0	-113.7	2106	1100.0	600.0	-113.7
2107	1200.0	600.0	-113.7	2108	1300.0	600.0	-113.7	2109	1400.0	600.0	-113.7
2110	1500.0	600.0	-113.7	2111	1600.0	600.0	-113.7	2112	1700.0	600.0	-113.7
2113	1800.0	600.0	-113.7	2114	96.9	120.0	-113.7	2115	193.8	120.0	-113.7
2116	290.6	120.0	-113.7	2117	481.2	120.0	-113.7	2118	575.0	120.0	-113.7
2119	668.8	120.0	-113.7	2120	1231.2	120.0	-113.7	2121	1325.0	120.0	-113.7
2122	1418.8	120.0	-113.7	2123	1609.4	120.0	-113.7	2124	1706.2	120.0	-113.7
2125	1803.1	120.0	-113.7								

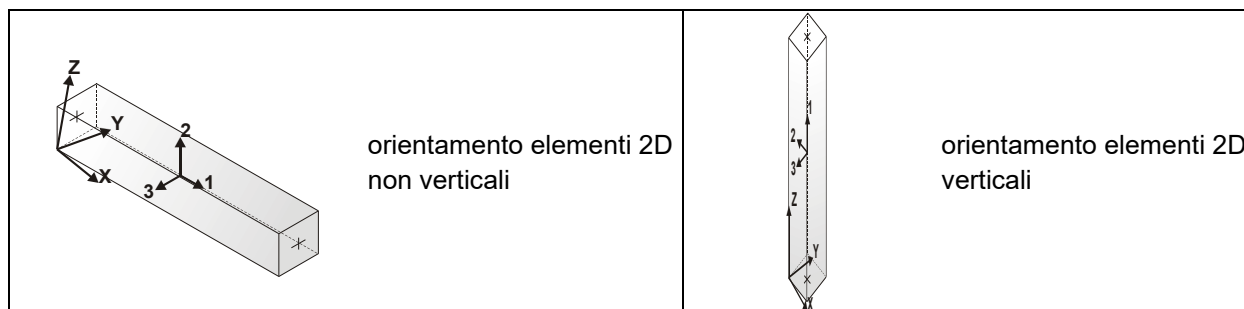
Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
1791	1900.0	1080.0	-113.7	FS=1						
1839	0.0	1080.0	-113.7	FS=1						
2059	3139.0	2323.0	270.0	v=001000						

MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

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

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

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



In particolare per ogni elemento viene indicato in tabella:

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

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
							gradi			daN/cm3	daN/cm3
1	Asta	1005	1004	157	5	3					
2	Asta	1006	1005	157	5	3					
3	Asta	1007	1002	157	5	3					
4	Asta	1008	1007	157	5	3					
5	Asta	1009	983	157	5	3					
6	Asta	1010	1009	157	5	3					
7	Asta	1011	993	157	5	3					
8	Asta	1012	1011	157	5	3					
9	Asta	1013	994	157	5	3					
10	Asta	1014	1013	157	5	3					
11	Asta	1015	984	157	5	3					
12	Asta	1016	1015	157	5	3					
13	Asta	1017	985	157	5	3					
14	Asta	1018	1017	157	5	3					
15	Asta	1019	986	157	5	3					
16	Asta	1020	1019	157	5	3					
17	Asta	1021	987	157	5	3					
18	Asta	1022	1021	157	5	3					
19	Asta	1023	995	157	5	3					
20	Asta	1024	1023	157	5	3					
21	Asta	645	996	157	5	3					
22	Asta	780	645	157	5	3					
23	Asta	810	988	157	5	3					
24	Asta	811	810	157	5	3					
25	Asta	841	998	157	5	3					
26	Asta	842	841	157	5	3					
27	Asta	872	1000	157	5	3					
28	Asta	873	872	157	5	3					
29	Asta tesa	1041	661	12	7	3					
30	Asta tesa	902	661	12	7	3					
31	Asta tesa	1027	673	12	7	3					
32	Asta tesa	871	1027	12	7	3					
33	Asta tesa	1033	871	12	7	3					
34	Asta tesa	809	1033	12	7	3					
35	Asta tesa	526	809	12	7	3					
36	Asta tesa	526	1050	12	7	3					
37	Asta tesa	13	1050	12	7	3					



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
38	Asta tesa	532	1036	12	7	3					
39	Asta tesa	538	1036	12	7	3					
40	Asta tesa	1036	840	12	7	3					
41	Asta tesa	840	1030	12	7	3					
42	Asta tesa	1030	902	12	7	3					
43	Asta tesa	1041	14	12	7	3					
44	Asta tesa	1027	667	12	7	3					
45	Trave	992	1028	129	4	3		000111			
46	Trave	997	1026	129	4	3		000111			
47	Trave	999	1025	129	4	3		000111			
48	Trave	1001	1037	129	4	3		000111			
49	Trave	1003	1038	129	4	3		000111			
50	Trave	30	1006	158	5	3					
51	Trave	514	1005	3	1	3		000011			
52	Trave	13	1004	158	5	3					
53	Trave	538	1003	3	2	3		000011			
54	Trave	645	810	3	1	3					
55	Trave	983	993	158	5	3					
56	Trave	1001	809	3	2	3			000011		
57	Trave	997	999	3	2	3					
58	Trave	780	811	158	5	3					
59	Trave	1005	1007	3	1	3					
60	Trave	1002	983	158	5	3					
61	Trave	1003	1001	3	2	3					
62	Trave	1006	1008	158	5	3					
63	Trave	810	841	3	1	3					
64	Trave	984	985	158	5	3					
65	Trave	999	673	3	2	3			000011		
66	Trave	811	842	158	5	3					
67	Trave	1004	1002	158	5	3					
68	Trave	993	994	158	5	3					
69	Trave	1007	1009	3	1	3					
70	Trave	1008	1010	158	5	3					
71	Trave	841	872	3	1	3					
72	Trave	985	986	158	5	3					
73	Trave	842	873	158	5	3					
74	Trave	994	984	158	5	3					
75	Trave	1009	1011	3	1	3					
76	Trave	1010	1012	158	5	3					
77	Trave	872	649	3	1	3			000011		
78	Trave	986	987	158	5	3					
79	Trave	873	278	158	5	3					
80	Trave	1011	1013	3	1	3					
81	Trave	1012	1014	158	5	3					
82	Trave	987	995	158	5	3					
83	Trave	1013	1015	3	1	3					
84	Trave	1014	1016	158	5	3					
85	Trave	988	998	158	5	3					
86	Trave	995	996	158	5	3					
87	Trave	1015	1017	3	1	3					
88	Trave	1016	1018	158	5	3					
89	Trave	998	1000	158	5	3					
90	Trave	996	988	158	5	3					
91	Trave	1017	1019	3	1	3					
92	Trave	1018	1020	158	5	3					
93	Trave	1000	14	158	5	3					
94	Trave	1019	1021	3	1	3					
95	Trave	1020	1022	158	5	3					
96	Trave	1021	1023	3	1	3					
97	Trave	1022	1024	158	5	3					
98	Trave	1023	645	3	1	3					
99	Trave	1024	780	158	5	3					
100	Trave	526	1038	129	6	3		000011	000111		
101	Trave	1036	1050	129	4	3					
102	Trave	1033	1047	129	4	3					
103	Trave	1032	1046	129	4	3					
104	Trave	1031	1045	129	4	3					
105	Trave	1030	1044	129	4	3					
106	Trave	1027	1041	129	4	3					
107	Trave	1035	1049	129	4	3					



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
108	Trave	1034	1048	129	4	3					
109	Trave	1029	1043	129	4	3					
110	Trave	1028	1042	129	4	3					
111	Trave	1026	1040	129	4	3					
112	Trave	1025	1039	129	4	3					
113	Trave	1037	1051	129	4	3					
114	Trave	1038	1052	129	4	3					
115	Trave	1025	661	129	6	3		000011	000111		
116	Trave	1026	1025	129	6	3		000011	000111		
117	Trave	1027	1026	129	6	3		000011	000111		
118	Trave	1028	1027	129	6	3		000011	000111		
119	Trave	1029	1028	129	6	3		000011	000111		
120	Trave	1030	1029	129	6	3		000011	000111		
121	Trave	1031	1030	129	6	3		000011	000111		
122	Trave	1032	1031	129	6	3		000011	000111		
123	Trave	1033	1032	129	6	3		000011	000111		
124	Trave	1034	1033	129	6	3		000011	000111		
125	Trave	1035	1034	129	6	3		000011	000111		
126	Trave	1036	1035	129	6	3		000011	000111		
127	Trave	1037	1036	129	6	3		000011	000111		
128	Trave	1038	1037	129	6	3		000011	000111		
129	Trave	532	1052	129	6	3		000011	000111		
130	Trave	1039	667	129	6	3		000011	000111		
131	Trave	1040	1039	129	6	3		000011	000111		
132	Trave	1041	1040	129	6	3		000011	000111		
133	Trave	1042	1041	129	6	3		000011	000111		
134	Trave	1043	1042	129	6	3		000011	000111		
135	Trave	1044	1043	129	6	3		000011	000111		
136	Trave	1045	1044	129	6	3		000011	000111		
137	Trave	1046	1045	129	6	3		000011	000111		
138	Trave	1047	1046	129	6	3		000011	000111		
139	Trave	1048	1047	129	6	3		000011	000111		
140	Trave	1049	1048	129	6	3		000011	000111		
141	Trave	1050	1049	129	6	3		000011	000111		
142	Trave	1051	1050	129	6	3		000011	000111		
143	Trave	1052	1051	129	6	3		000011	000111		
144	Trave	1050	983	129	4	3			000011		
145	Trave	1047	984	129	4	3			000011		
146	Trave	1046	985	129	4	3			000011		
147	Trave	1045	986	129	4	3			000011		
148	Trave	1044	987	129	4	3			000011		
149	Trave	1041	988	129	4	3			000011		
150	Trave	1049	993	129	4	3			000011		
151	Trave	1048	994	129	4	3			000011		
152	Trave	1043	995	129	4	3			000011		
153	Trave	1042	996	129	4	3			000011		
154	Trave	1040	998	129	4	3			000011		
155	Trave	1039	1000	129	4	3			000011		
156	Trave	1051	1002	129	4	3			000011		
157	Trave	1052	1004	129	4	3			000011		
158	Trave	809	989	3	2	3		000011			
159	Trave	871	991	3	2	3		000011			
160	Trave	902	997	3	2	3		000011			
161	Trave	809	1036	129	4	3		000111			
162	Trave	840	1033	129	4	3		000111			
163	Trave	932	1032	129	4	3		000111			
164	Trave	962	1031	129	4	3		000111			
165	Trave	871	1030	129	4	3		000111			
166	Trave	902	1027	129	4	3		000111			
167	Trave	989	990	3	2	3					
168	Trave	990	840	3	2	3			000011		
169	Trave	991	992	3	2	3					
170	Trave	992	902	3	2	3			000011		
171	Trave	989	1035	129	4	3		000111			
172	Trave	990	1034	129	4	3		000111			
173	Trave	991	1029	129	4	3		000111			
174	Trave	1733	807	3	9	3					
175	Trave	1734	838	3	9	3					
176	Trave	1735	869	3	9	3					
177	Trave	1736	900	3	9	3					



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
178	Trave	807	808	3	9	3		000011	000111		
179	Trave	808	809	3	9	3		000011	000111		
180	Trave	839	840	3	9	3		000011	000111		
181	Trave	838	839	3	9	3		000011	000111		
182	Trave	870	871	3	9	3		000011	000111		
183	Trave	869	870	3	9	3		000011	000111		
184	Trave	901	902	3	9	3		000011	000111		
185	Trave	900	901	3	9	3		000011	000111		
186	Trave	12	654	157	5	3		000011	000111		
187	Trave	11	519	157	5	3		000011	000111		
188	Trave	1243	1269	157	5	3		000011	000111		
189	Trave	654	655	157	5	3		000011	000111		
190	Trave	519	520	157	5	3		000011	000111		
191	Trave	2	1650	157	5	3		000011	000111		
192	Trave	267	2	157	5	3		000011	000111		
193	Trave	655	673	157	5	3		000011	000111		
194	Trave	520	538	157	5	3		000011	000111		
195	Trave	309	1293	157	5	3		000011	000111		
196	Trave	289	267	157	5	3		000011	000111		
197	Trave	325	309	157	5	3		000011	000111		
198	Trave	656	657	157	5	3		000011	000111		
199	Trave	521	522	157	5	3		000011	000111		
200	Trave	1222	1223	157	5	3		000011	000111		
201	Trave	299	289	157	5	3		000011	000111		
202	Trave	335	1387	157	5	3		000011	000111		
203	Trave	673	656	157	5	3		000011	000111		
204	Trave	538	521	157	5	3		000011	000111		
205	Trave	1277	1602	157	5	3		000011	000111		
206	Trave	657	701	157	5	3		000011	000111		
207	Trave	522	566	157	5	3		000011	000111		
208	Trave	1223	1232	157	5	3		000011	000111		
209	Trave	1259	299	157	5	3		000011	000111		
210	Trave	345	335	157	5	3		000011	000111		
211	Trave	1293	1294	157	5	3		000011	000111		
212	Trave	361	1371	157	5	3		000011	000111		
213	Trave	1574	1222	157	5	3		000011	000111		
214	Trave	658	659	157	5	3		000011	000111		
215	Trave	523	524	157	5	3		000011	000111		
216	Trave	1232	1069	157	5	3		000011	000111		
217	Trave	1260	1259	157	5	3		000011	000111		
218	Trave	1388	345	157	5	3		000011	000111		
219	Trave	371	361	157	5	3		000011	000111		
220	Trave	1578	1574	157	5	3		000011	000111		
221	Trave	701	658	157	5	3		000011	000111		
222	Trave	566	523	157	5	3		000011	000111		
223	Trave	1294	1303	157	5	3		000011	000111		
224	Trave	1356	325	157	5	3		000011	000111		
225	Trave	659	729	157	5	3		000011	000111		
226	Trave	524	594	157	5	3		000011	000111		
227	Trave	1269	1260	157	5	3		000011	000111		
228	Trave	1404	1405	157	5	3		000011	000111		
229	Trave	381	371	157	5	3		000011	000111		
230	Trave	1582	1578	157	5	3		000011	000111		
231	Trave	1371	1356	157	5	3		000011	000111		
232	Trave	1303	1312	157	5	3		000011	000111		
233	Trave	660	661	157	5	3		000011	000111		
234	Trave	525	526	157	5	3		000011	000111		
235	Trave	1638	1404	157	5	3		000011	000111		
236	Trave	1372	381	157	5	3		000011	000111		
237	Trave	1586	1582	157	5	3		000011	000111		
238	Trave	729	660	157	5	3		000011	000111		
239	Trave	594	525	157	5	3		000011	000111		
240	Trave	1405	1414	157	5	3		000011	000111		
241	Trave	1312	1321	157	5	3		000011	000111		
242	Trave	661	757	157	5	3		000011	000111		
243	Trave	526	622	157	5	3		000011	000111		
244	Trave	1642	1638	157	5	3		000011	000111		
245	Trave	1387	1372	157	5	3		000011	000111		
246	Trave	1590	1586	157	5	3		000011	000111		
247	Trave	1414	1423	157	5	3		000011	000111		



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
248	Trave	1321	1330	157	5	3		000011	000111		
249	Trave	662	663	157	5	3		000011	000111		
250	Trave	527	528	157	5	3		000011	000111		
251	Trave	1646	1642	157	5	3		000011	000111		
252	Trave	1594	1590	157	5	3		000011	000111		
253	Trave	757	662	157	5	3		000011	000111		
254	Trave	622	527	157	5	3		000011	000111		
255	Trave	1423	1388	157	5	3		000011	000111		
256	Trave	1330	1339	157	5	3		000011	000111		
257	Trave	663	753	157	5	3		000011	000111		
258	Trave	528	618	157	5	3		000011	000111		
259	Trave	1650	1646	157	5	3		000011	000111		
260	Trave	1598	1594	157	5	3		000011	000111		
261	Trave	1339	1348	157	5	3		000011	000111		
262	Trave	665	666	157	5	3		000011	000111		
263	Trave	530	531	157	5	3		000011	000111		
264	Trave	1602	1598	157	5	3		000011	000111		
265	Trave	753	665	157	5	3		000011	000111		
266	Trave	618	530	157	5	3		000011	000111		
267	Trave	1348	1277	157	5	3		000011	000111		
268	Trave	666	703	157	5	3		000011	000111		
269	Trave	531	568	157	5	3		000011	000111		
270	Trave	667	668	157	5	3		000011	000111		
271	Trave	532	533	157	5	3		000011	000111		
272	Trave	703	667	157	5	3		000011	000111		
273	Trave	568	532	157	5	3		000011	000111		
274	Trave	668	735	157	5	3		000011	000111		
275	Trave	533	600	157	5	3		000011	000111		
276	Trave	669	670	157	5	3		000011	000111		
277	Trave	534	535	157	5	3		000011	000111		
278	Trave	735	669	157	5	3		000011	000111		
279	Trave	600	534	157	5	3		000011	000111		
280	Trave	670	726	157	5	3		000011	000111		
281	Trave	535	591	157	5	3		000011	000111		
282	Trave	671	672	157	5	3		000011	000111		
283	Trave	536	537	157	5	3		000011	000111		
284	Trave	726	671	157	5	3		000011	000111		
285	Trave	591	536	157	5	3		000011	000111		
286	Trave	672	14	157	5	3		000011	000111		
287	Trave	537	13	157	5	3		000011	000111		
288	Pilas.	1737	1738	12	11	3	90.00		000011		
289	Pilas.	1739	1740	12	11	3	90.00		000011		
290	Pilas.	1741	1742	12	11	3	90.00		000011		
291	Pilas.	1743	1744	12	11	3	90.00		000011		
292	Pilas.	1745	1746	12	11	3	90.00		000011		
293	Pilas.	1747	1748	12	11	3	90.00		000011		
294	Pilas.	1749	1750	12	11	3	90.00		000011		
295	Pilas.	1751	1752	12	11	3	90.00		000011		
296	Pilas.	1753	1754	12	11	3	90.00		000011		
297	Pilas.	1755	1756	12	11	3	90.00		000011		
298	Pilas.	1757	1758	12	11	3	90.00		000011		
299	Pilas.	1759	1760	12	11	3	90.00		000011		
300	Pilas.	1761	1762	12	11	3	90.00		000011		
301	Trave	1762	1760	3	12	3					
302	Trave	1760	1758	3	12	3					
303	Trave	1758	1756	3	12	3					
304	Trave	1756	1754	3	12	3					
305	Trave	1754	1740	3	12	3					
306	Trave	1740	1744	3	12	3					
307	Trave	1744	1748	3	12	3					
308	Trave	1748	1752	3	12	3					
309	Trave	1738	1742	3	12	3					
310	Trave	1742	1746	3	12	3					
311	Trave	1746	1750	3	12	3					
312	Trave	1276	1762	3	12	3		000011	000011		
313	Trave	1276	1268	157	5	3		000011	000111		
314	Trave	265	1653	157	5	3		000011	000111		
315	Trave	282	265	157	5	3		000011	000111		
316	Trave	308	1291	157	5	3		000011	000111		
317	Trave	298	282	157	5	3		000011	000111		



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
318	Trave	318	308	157	5	3		000011	000111		
319	Trave	1220	1221	157	5	3		000011	000111		
320	Trave	1257	298	157	5	3		000011	000111		
321	Trave	334	1385	157	5	3		000011	000111		
322	Trave	1291	1292	157	5	3		000011	000111		
323	Trave	1258	1257	157	5	3		000011	000111		
324	Trave	344	334	157	5	3		000011	000111		
325	Trave	354	1369	157	5	3		000011	000111		
326	Trave	1292	1302	157	5	3		000011	000111		
327	Trave	1268	1258	157	5	3		000011	000111		
328	Trave	1402	1403	157	5	3		000011	000111		
329	Trave	370	354	157	5	3		000011	000111		
330	Trave	1369	1370	157	5	3		000011	000111		
331	Trave	1302	1311	157	5	3		000011	000111		
332	Trave	1637	1402	157	5	3		000011	000111		
333	Trave	380	370	157	5	3		000011	000111		
334	Trave	1403	1413	157	5	3		000011	000111		
335	Trave	1370	318	157	5	3		000011	000111		
336	Trave	1311	1320	157	5	3		000011	000111		
337	Trave	1641	1637	157	5	3		000011	000111		
338	Trave	1385	1386	157	5	3		000011	000111		
339	Trave	1413	1422	157	5	3		000011	000111		
340	Trave	1320	1329	157	5	3		000011	000111		
341	Trave	1645	1641	157	5	3		000011	000111		
342	Trave	1386	380	157	5	3		000011	000111		
343	Trave	1422	1430	157	5	3		000011	000111		
344	Trave	1329	1338	157	5	3		000011	000111		
345	Trave	1649	1645	157	5	3		000011	000111		
346	Trave	1430	344	157	5	3		000011	000111		
347	Trave	1338	1347	157	5	3		000011	000111		
348	Trave	1653	1649	157	5	3		000011	000111		
349	Trave	1347	1355	157	5	3		000011	000111		
350	Trave	1355	1601	157	5	3		000011	000111		
351	Trave	1573	1220	157	5	3		000011	000111		
352	Trave	1577	1573	157	5	3		000011	000111		
353	Trave	1581	1577	157	5	3		000011	000111		
354	Trave	1585	1581	157	5	3		000011	000111		
355	Trave	1589	1585	157	5	3		000011	000111		
356	Trave	1593	1589	157	5	3		000011	000111		
357	Trave	1597	1593	157	5	3		000011	000111		
358	Trave	1601	1597	157	5	3		000011	000111		
359	Trave f.	1839	2060	3	13	2				2.14	0.85
360	Trave f.	1840	2078	3	13	2				2.14	0.85
361	Trave f.	1827	2096	3	13	2				2.14	0.85
362	Trave f.	1815	2114	3	14	2				1.14	0.45
363	Trave f.	1865	2117	3	14	2				1.14	0.45
364	Trave f.	1871	2120	3	14	2				1.14	0.45
365	Trave f.	1872	1871	3	14	2				1.14	0.45
366	Trave f.	1882	2123	3	14	2				1.14	0.45
367	Trave f.	1873	1872	3	14	2				1.14	0.45
368	Trave f.	1874	1873	3	14	2				1.14	0.45
369	Trave f.	1875	1874	3	14	2				1.14	0.45
370	Trave f.	1876	1875	3	14	2				1.14	0.45
371	Trave f.	1877	1876	3	14	2				1.14	0.45
372	Trave f.	1878	1877	3	14	2				1.14	0.45
373	Trave f.	1879	1878	3	14	2				1.14	0.45
374	Trave f.	1880	1879	3	14	2				1.14	0.45
375	Trave f.	1842	1919	3	14	2				1.14	0.45
376	Trave f.	1890	1811	3	14	2				1.14	0.45
377	Trave f.	1891	1890	3	14	2				1.14	0.45
378	Trave f.	1892	1891	3	14	2				1.14	0.45
379	Trave f.	1893	1892	3	14	2				1.14	0.45
380	Trave f.	1894	1893	3	14	2				1.14	0.45
381	Trave f.	1895	1894	3	14	2				1.14	0.45
382	Trave f.	1896	1895	3	14	2				1.14	0.45
383	Trave f.	1897	1896	3	14	2				1.14	0.45
384	Trave f.	1898	1897	3	14	2				1.14	0.45
385	Trave f.	1899	1898	3	14	2				1.14	0.45
386	Trave f.	1900	1899	3	14	2				1.14	0.45
387	Trave f.	1901	1900	3	14	2				1.14	0.45



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
388	Trave f.	1902	1901	3	14	2				1.14	0.45
389	Trave f.	1903	1902	3	14	2				1.14	0.45
390	Trave f.	1904	1903	3	14	2				1.14	0.45
391	Trave f.	1905	1904	3	14	2				1.14	0.45
392	Trave f.	1906	1905	3	14	2				1.14	0.45
393	Trave f.	1907	1906	3	14	2				1.14	0.45
394	Trave f.	1908	1907	3	14	2				1.14	0.45
395	Trave f.	1909	1908	3	14	2				1.14	0.45
396	Trave f.	1910	1909	3	14	2				1.14	0.45
397	Trave f.	1911	1910	3	14	2				1.14	0.45
398	Trave f.	1912	1911	3	14	2				1.14	0.45
399	Trave f.	1913	1912	3	14	2				1.14	0.45
400	Trave f.	1914	1913	3	14	2				1.14	0.45
401	Trave f.	1915	1920	3	14	2				1.14	0.45
402	Trave f.	1916	1917	3	14	2				1.14	0.45
403	Trave f.	1920	1921	3	14	2				1.14	0.45
404	Trave f.	1918	1916	3	14	2				1.14	0.45
405	Trave f.	1917	1929	3	14	2				1.14	0.45
406	Trave f.	1921	1922	3	14	2				1.14	0.45
407	Trave f.	1919	1918	3	14	2				1.14	0.45
408	Trave f.	1923	1915	3	14	2				1.14	0.45
409	Trave f.	1922	1914	3	14	2				1.14	0.45
410	Trave f.	1924	1923	3	14	2				1.14	0.45
411	Trave f.	1925	1924	3	14	2				1.14	0.45
412	Trave f.	1926	1925	3	14	2				1.14	0.45
413	Trave f.	1927	1926	3	14	2				1.14	0.45
414	Trave f.	1928	1927	3	14	2				1.14	0.45
415	Trave f.	1929	1928	3	14	2				1.14	0.45
416	Trave f.	1763	1764	3	15	2				1.76	0.70
417	Trave f.	1812	1813	3	15	2				1.76	0.70
418	Trave f.	1764	1765	3	15	2				1.76	0.70
419	Trave f.	1813	1814	3	15	2				1.76	0.70
420	Trave f.	1765	1766	3	15	2				1.76	0.70
421	Trave f.	1814	1815	3	15	2				1.76	0.70
422	Trave f.	1766	1767	3	15	2				1.76	0.70
423	Trave f.	1815	1816	3	15	2				1.76	0.70
424	Trave f.	1767	1768	3	15	2				1.76	0.70
425	Trave f.	1816	1817	3	15	2				1.76	0.70
426	Trave f.	1768	1769	3	15	2				1.76	0.70
427	Trave f.	1817	1818	3	15	2				1.76	0.70
428	Trave f.	1769	1770	3	15	2				1.76	0.70
429	Trave f.	1818	1819	3	15	2				1.76	0.70
430	Trave f.	1770	1771	3	15	2				1.76	0.70
431	Trave f.	1819	1820	3	15	2				1.76	0.70
432	Trave f.	1771	1772	3	15	2				1.76	0.70
433	Trave f.	1820	1821	3	15	2				1.76	0.70
434	Trave f.	1772	1773	3	15	2				1.76	0.70
435	Trave f.	1821	1822	3	15	2				1.76	0.70
436	Trave f.	1773	1774	3	15	2				1.76	0.70
437	Trave f.	1822	1823	3	15	2				1.76	0.70
438	Trave f.	1774	1775	3	15	2				1.76	0.70
439	Trave f.	1823	1824	3	15	2				1.76	0.70
440	Trave f.	1775	1776	3	15	2				1.76	0.70
441	Trave f.	1824	1825	3	15	2				1.76	0.70
442	Trave f.	1776	1777	3	15	2				1.76	0.70
443	Trave f.	1825	1826	3	15	2				1.76	0.70
444	Trave f.	1777	1778	3	15	2				1.76	0.70
445	Trave f.	1826	1827	3	15	2				1.76	0.70
446	Trave f.	1778	1779	3	15	2				1.76	0.70
447	Trave f.	1827	1828	3	15	2				1.76	0.70
448	Trave f.	1779	1781	3	15	2				1.76	0.70
449	Trave f.	1828	1829	3	15	2				1.76	0.70
450	Trave f.	1781	1782	3	15	2				1.76	0.70
451	Trave f.	1829	1830	3	15	2				1.76	0.70
452	Trave f.	1782	1783	3	15	2				1.76	0.70
453	Trave f.	1830	1831	3	15	2				1.76	0.70
454	Trave f.	1783	1784	3	15	2				1.76	0.70
455	Trave f.	1831	1832	3	15	2				1.76	0.70
456	Trave f.	1784	1785	3	15	2				1.76	0.70
457	Trave f.	1832	1833	3	15	2				1.76	0.70



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
458	Trave f.	1785	1786	3	15	2				1.76	0.70
459	Trave f.	1833	1834	3	15	2				1.76	0.70
460	Trave f.	1786	1787	3	15	2				1.76	0.70
461	Trave f.	1834	1835	3	15	2				1.76	0.70
462	Trave f.	1787	1788	3	15	2				1.76	0.70
463	Trave f.	1835	1836	3	15	2				1.76	0.70
464	Trave f.	1788	1789	3	15	2				1.76	0.70
465	Trave f.	1836	1837	3	15	2				1.76	0.70
466	Trave f.	1789	1790	3	15	2				1.76	0.70
467	Trave f.	1837	1838	3	15	2				1.76	0.70
468	Trave f.	1790	1791	3	15	2				1.76	0.70
469	Trave f.	1838	1839	3	15	2				1.76	0.70
470	Trave f.	1791	1792	3	15	2				1.76	0.70
471	Trave f.	1839	1849	3	15	2				1.76	0.70
472	Trave f.	1792	1793	3	15	2				1.76	0.70
473	Trave f.	1840	1868	3	15	2				1.76	0.70
474	Trave f.	1849	1850	3	15	2				1.76	0.70
475	Trave f.	1793	1794	3	15	2				1.76	0.70
476	Trave f.	1841	1842	3	15	2				1.76	0.70
477	Trave f.	1845	1848	3	15	2				1.76	0.70
478	Trave f.	1850	1851	3	15	2				1.76	0.70
479	Trave f.	1794	1795	3	15	2				1.76	0.70
480	Trave f.	1868	1869	3	15	2				1.76	0.70
481	Trave f.	1848	1841	3	15	2				1.76	0.70
482	Trave f.	1851	1840	3	15	2				1.76	0.70
483	Trave f.	1795	1796	3	15	2				1.76	0.70
484	Trave f.	1869	1870	3	15	2				1.76	0.70
485	Trave f.	1796	1797	3	15	2				1.76	0.70
486	Trave f.	1870	1845	3	15	2				1.76	0.70
487	Trave f.	1797	1798	3	15	2				1.76	0.70
488	Trave f.	1798	1799	3	15	2				1.76	0.70
489	Trave f.	1799	1800	3	15	2				1.76	0.70
490	Trave f.	1800	1801	3	15	2				1.76	0.70
491	Trave f.	1801	1802	3	15	2				1.76	0.70
492	Trave f.	1802	1803	3	15	2				1.76	0.70
493	Trave f.	1803	1804	3	15	2				1.76	0.70
494	Trave f.	1804	1805	3	15	2				1.76	0.70
495	Trave f.	1805	1806	3	15	2				1.76	0.70
496	Trave f.	1806	1807	3	15	2				1.76	0.70
497	Trave f.	1807	1808	3	15	2				1.76	0.70
498	Trave f.	1808	1809	3	15	2				1.76	0.70
499	Trave f.	1809	1810	3	15	2				1.76	0.70
500	Trave f.	1810	1811	3	15	2				1.76	0.70
501	Trave f.	1761	1759	3	16	2				3.29	1.31
502	Trave f.	1749	1751	3	16	2				3.74	1.49
503	Trave f.	1737	1741	3	16	2				3.37	1.34
504	Trave f.	1242	1761	3	16	2				3.68	1.46
505	Trave f.	1739	1743	3	16	2				3.29	1.31
506	Trave f.	1741	1745	3	16	2				3.37	1.34
507	Trave f.	1753	1739	3	16	2				3.29	1.31
508	Trave f.	1743	1747	3	16	2				3.29	1.31
509	Trave f.	1745	1749	3	16	2				3.37	1.34
510	Trave f.	1755	1753	3	16	2				3.29	1.31
511	Trave f.	1747	1751	3	16	2				3.29	1.31
512	Trave f.	1757	1755	3	16	2				3.29	1.31
513	Trave f.	1759	1757	3	16	2				3.29	1.31
514	Trave f.	1737	1739	3	16	2				4.78	2.73
515	Trave	1750	2058	3	12	3					
516	Pilas.	1839	2006	3	17	3					
517	Pilas.	1791	1958	3	17	3					
518	Pilas.	3	15	3	17	3					
519	Pilas.	4	263	3	17	3					
520	Pilas.	2006	3	3	17	3					
521	Pilas.	1958	4	3	17	3					
522	Pilas.	15	18	3	17	3					
523	Pilas.	263	266	3	17	3					
524	Pilas.	18	20	3	17	3					
525	Pilas.	266	268	3	17	3					
526	Pilas.	20	22	3	17	3					
527	Pilas.	268	270	3	17	3					



Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
528	Pilas.	22	24	3	17	3					
529	Pilas.	270	272	3	17	3					
530	Pilas.	24	26	3	17	3					
531	Pilas.	272	274	3	17	3					
532	Pilas.	26	28	3	17	3					
533	Pilas.	274	276	3	17	3					
534	Pilas.	28	30	3	17	3					
535	Pilas.	276	278	3	17	3					
536	Pilas.	30	563	3	17	3					
537	Pilas.	278	698	3	17	3					
538	Pilas.	513	514	3	17	3					
539	Pilas.	648	649	3	17	3					
540	Pilas.	563	564	3	17	3					
541	Pilas.	698	699	3	17	3					
542	Pilas.	564	513	3	17	3					
543	Pilas.	699	648	3	17	3					
544	Trave	1738	1740	3	18	3					
545	Trave	1750	1752	3	18	3					
546	Trave f.	2060	2061	3	13	2				2.14	0.85
547	Trave f.	2061	2062	3	13	2				2.14	0.85
548	Trave f.	2062	2063	3	13	2				2.14	0.85
549	Trave f.	2063	2064	3	13	2				2.14	0.85
550	Trave f.	2064	2065	3	13	2				2.14	0.85
551	Trave f.	2065	2066	3	13	2				2.14	0.85
552	Trave f.	2066	2067	3	13	2				2.14	0.85
553	Trave f.	2067	2068	3	13	2				2.14	0.85
554	Trave f.	2068	2069	3	13	2				2.14	0.85
555	Trave f.	2069	2070	3	13	2				2.14	0.85
556	Trave f.	2070	2071	3	13	2				2.14	0.85
557	Trave f.	2071	2072	3	13	2				2.14	0.85
558	Trave f.	2072	2073	3	13	2				2.14	0.85
559	Trave f.	2073	2074	3	13	2				2.14	0.85
560	Trave f.	2074	2075	3	13	2				2.14	0.85
561	Trave f.	2075	2076	3	13	2				2.14	0.85
562	Trave f.	2076	2077	3	13	2				2.14	0.85
563	Trave f.	2077	1791	3	13	2				2.14	0.85
564	Trave f.	2078	2079	3	13	2				2.14	0.85
565	Trave f.	2079	2080	3	13	2				2.14	0.85
566	Trave f.	2080	2081	3	13	2				2.14	0.85
567	Trave f.	2081	2082	3	13	2				2.14	0.85
568	Trave f.	2082	2083	3	13	2				2.14	0.85
569	Trave f.	2083	2084	3	13	2				2.14	0.85
570	Trave f.	2084	2085	3	13	2				2.14	0.85
571	Trave f.	2085	2086	3	13	2				2.14	0.85
572	Trave f.	2086	2087	3	13	2				2.14	0.85
573	Trave f.	2087	2088	3	13	2				2.14	0.85
574	Trave f.	2088	2089	3	13	2				2.14	0.85
575	Trave f.	2089	2090	3	13	2				2.14	0.85
576	Trave f.	2090	2091	3	13	2				2.14	0.85
577	Trave f.	2091	2092	3	13	2				2.14	0.85
578	Trave f.	2092	2093	3	13	2				2.14	0.85
579	Trave f.	2093	2094	3	13	2				2.14	0.85
580	Trave f.	2094	2095	3	13	2				2.14	0.85
581	Trave f.	2095	1801	3	13	2				2.14	0.85
582	Trave f.	2096	2097	3	13	2				2.14	0.85
583	Trave f.	2097	2098	3	13	2				2.14	0.85
584	Trave f.	2098	2099	3	13	2				2.14	0.85
585	Trave f.	2099	2100	3	13	2				2.14	0.85
586	Trave f.	2100	2101	3	13	2				2.14	0.85
587	Trave f.	2101	2102	3	13	2				2.14	0.85
588	Trave f.	2102	2103	3	13	2				2.14	0.85
589	Trave f.	2103	2104	3	13	2				2.14	0.85
590	Trave f.	2104	2105	3	13	2				2.14	0.85
591	Trave f.	2105	2106	3	13	2				2.14	0.85
592	Trave f.	2106	2107	3	13	2				2.14	0.85
593	Trave f.	2107	2108	3	13	2				2.14	0.85
594	Trave f.	2108	2109	3	13	2				2.14	0.85
595	Trave f.	2109	2110	3	13	2				2.14	0.85
596	Trave f.	2110	2111	3	13	2				2.14	0.85
597	Trave f.	2111	2112	3	13	2				2.14	0.85

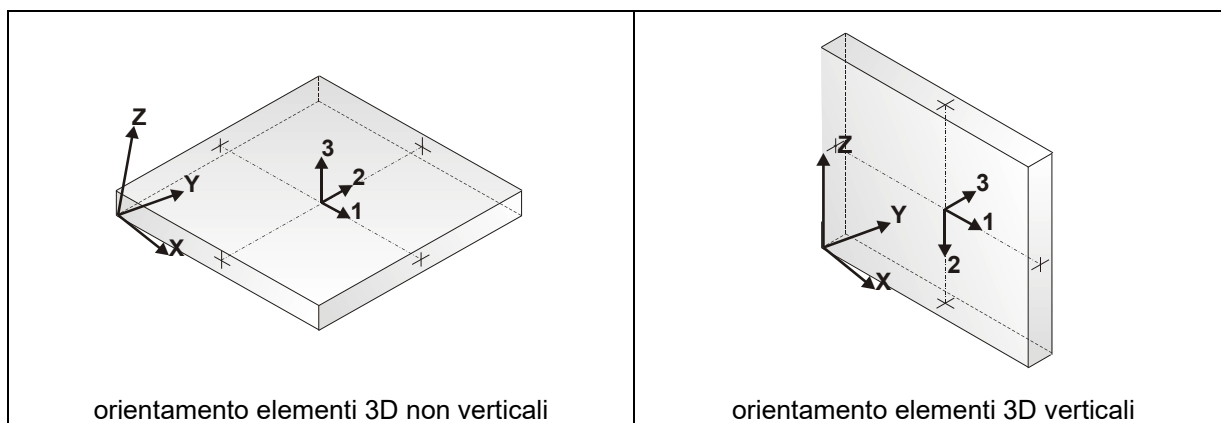
Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
598	Trave f.	2112	2113	3	13	2				2.14	0.85
599	Trave f.	2113	1778	3	13	2				2.14	0.85
600	Trave f.	2114	2115	3	14	2				1.14	0.45
601	Trave f.	2115	2116	3	14	2				1.14	0.45
602	Trave f.	2116	1865	3	14	2				1.14	0.45
603	Trave f.	2117	2118	3	14	2				1.14	0.45
604	Trave f.	2118	2119	3	14	2				1.14	0.45
605	Trave f.	2119	1880	3	14	2				1.14	0.45
606	Trave f.	2120	2121	3	14	2				1.14	0.45
607	Trave f.	2121	2122	3	14	2				1.14	0.45
608	Trave f.	2122	1882	3	14	2				1.14	0.45
609	Trave f.	2123	2124	3	14	2				1.14	0.45
610	Trave f.	2124	2125	3	14	2				1.14	0.45
611	Trave f.	2125	1766	3	14	2				1.14	0.45

MODELLAZIONE STRUTTURA: ELEMENTI SHELL

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

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

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



In particolare per ogni elemento viene indicato in tabella:

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



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
								cm		daN/cm3	daN/cm3
1	Setto	17	3	15	16	3	3	20.0			
2	Setto	16	15	18	19	3	3	20.0			
3	Setto	19	18	20	21	3	3	20.0			
4	Setto	21	20	22	23	3	3	20.0			
5	Setto	23	22	24	25	3	3	20.0			
6	Setto	25	24	26	27	3	3	20.0			
7	Setto	27	26	28	29	3	3	20.0			
8	Setto	29	28	30	31	3	3	20.0			
9	Setto	33	17	16	32	3	3	20.0			
10	Setto	32	16	19	34	3	3	20.0			
11	Setto	34	19	21	35	3	3	20.0			
12	Setto	35	21	23	36	3	3	20.0			
13	Setto	36	23	25	37	3	3	20.0			
14	Setto	37	25	27	38	3	3	20.0			
15	Setto	38	27	29	39	3	3	20.0			
16	Setto	39	29	31	40	3	3	20.0			
17	Setto	42	33	32	41	3	3	20.0			
18	Setto	426	416	417	433	3	3	20.0			
19	Setto	43	34	35	44	3	3	20.0			
20	Setto	44	35	36	45	3	3	20.0			
21	Setto	45	36	37	46	3	3	20.0			
22	Setto	46	37	38	47	3	3	20.0			
23	Setto	47	38	39	48	3	3	20.0			
24	Setto	48	39	40	49	3	3	20.0			
25	Setto	51	42	41	50	3	3	20.0			
26	Setto	435	425	424	434	3	3	20.0			
27	Setto	52	43	44	53	3	3	20.0			
28	Setto	53	44	45	54	3	3	20.0			
29	Setto	54	45	46	55	3	3	20.0			
30	Setto	55	46	47	56	3	3	20.0			
31	Setto	56	47	48	57	3	3	20.0			
32	Setto	57	48	49	58	3	3	20.0			
33	Setto	60	51	50	59	3	3	20.0			
34	Setto	59	50	52	61	3	3	20.0			
35	Setto	61	52	53	62	3	3	20.0			
36	Setto	62	53	54	63	3	3	20.0			
37	Setto	63	54	55	64	3	3	20.0			
38	Setto	64	55	56	65	3	3	20.0			
39	Setto	65	56	57	66	3	3	20.0			
40	Setto	66	57	58	67	3	3	20.0			
41	Setto	69	60	59	68	3	3	20.0			
42	Setto	68	59	61	70	3	3	20.0			
43	Setto	70	61	62	71	3	3	20.0			
44	Setto	71	62	63	72	3	3	20.0			
45	Setto	72	63	64	73	3	3	20.0			
46	Setto	73	64	65	74	3	3	20.0			
47	Setto	74	65	66	75	3	3	20.0			
48	Setto	75	66	67	76	3	3	20.0			
49	Setto	78	69	68	77	3	3	20.0			
50	Setto	77	68	70	79	3	3	20.0			
51	Setto	79	70	71	80	3	3	20.0			
52	Setto	80	71	72	81	3	3	20.0			
53	Setto	81	72	73	82	3	3	20.0			
54	Setto	82	73	74	83	3	3	20.0			
55	Setto	83	74	75	84	3	3	20.0			
56	Setto	84	75	76	85	3	3	20.0			
57	Setto	87	78	77	86	3	3	20.0			
58	Setto	425	415	408	424	3	3	20.0			
59	Setto	88	79	80	89	3	3	20.0			
60	Setto	89	80	81	90	3	3	20.0			
61	Setto	90	81	82	91	3	3	20.0			
62	Setto	91	82	83	92	3	3	20.0			
63	Setto	92	83	84	93	3	3	20.0			
64	Setto	93	84	85	94	3	3	20.0			
65	Setto	96	87	86	95	3	3	20.0			
66	Setto	424	408	416	426	3	3	20.0			
67	Setto	97	88	89	98	3	3	20.0			
68	Setto	98	89	90	99	3	3	20.0			
69	Setto	99	90	91	100	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
70	Setto	100	91	92	101	3	3	20.0			
71	Setto	101	92	93	102	3	3	20.0			
72	Setto	102	93	94	103	3	3	20.0			
73	Setto	105	96	95	104	3	3	20.0			
74	Setto	104	95	97	106	3	3	20.0			
75	Setto	106	97	98	107	3	3	20.0			
76	Setto	107	98	99	108	3	3	20.0			
77	Setto	108	99	100	109	3	3	20.0			
78	Setto	109	100	101	110	3	3	20.0			
79	Setto	110	101	102	111	3	3	20.0			
80	Setto	111	102	103	112	3	3	20.0			
81	Setto	114	105	104	113	3	3	20.0			
82	Setto	113	104	106	115	3	3	20.0			
83	Setto	115	106	107	116	3	3	20.0			
84	Setto	116	107	108	117	3	3	20.0			
85	Setto	117	108	109	118	3	3	20.0			
86	Setto	118	109	110	119	3	3	20.0			
87	Setto	119	110	111	120	3	3	20.0			
88	Setto	120	111	112	121	3	3	20.0			
89	Setto	123	114	113	122	3	3	20.0			
90	Setto	122	113	115	124	3	3	20.0			
91	Setto	124	115	116	125	3	3	20.0			
92	Setto	125	116	117	126	3	3	20.0			
93	Setto	126	117	118	127	3	3	20.0			
94	Setto	127	118	119	128	3	3	20.0			
95	Setto	128	119	120	129	3	3	20.0			
96	Setto	129	120	121	130	3	3	20.0			
97	Setto	132	123	122	131	3	3	20.0			
98	Setto	131	122	124	133	3	3	20.0			
99	Setto	133	124	125	134	3	3	20.0			
100	Setto	134	125	126	135	3	3	20.0			
101	Setto	135	126	127	136	3	3	20.0			
102	Setto	136	127	128	137	3	3	20.0			
103	Setto	137	128	129	138	3	3	20.0			
104	Setto	138	129	130	139	3	3	20.0			
105	Setto	141	132	131	140	3	3	20.0			
106	Setto	140	131	133	142	3	3	20.0			
107	Setto	142	133	134	143	3	3	20.0			
108	Setto	143	134	135	144	3	3	20.0			
109	Setto	144	135	136	145	3	3	20.0			
110	Setto	145	136	137	146	3	3	20.0			
111	Setto	146	137	138	147	3	3	20.0			
112	Setto	147	138	139	148	3	3	20.0			
113	Setto	150	141	140	149	3	3	20.0			
114	Setto	408	1491	1493	416	3	3	20.0			
115	Setto	151	142	143	152	3	3	20.0			
116	Setto	152	143	144	153	3	3	20.0			
117	Setto	153	144	145	154	3	3	20.0			
118	Setto	154	145	146	155	3	3	20.0			
119	Setto	155	146	147	156	3	3	20.0			
120	Setto	156	147	148	157	3	3	20.0			
121	Setto	159	150	149	158	3	3	20.0			
122	Setto	416	1493	1495	417	3	3	20.0			
123	Setto	160	151	152	161	3	3	20.0			
124	Setto	161	152	153	162	3	3	20.0			
125	Setto	162	153	154	163	3	3	20.0			
126	Setto	163	154	155	164	3	3	20.0			
127	Setto	164	155	156	165	3	3	20.0			
128	Setto	165	156	157	166	3	3	20.0			
129	Setto	168	159	158	167	3	3	20.0			
130	Setto	167	158	160	169	3	3	20.0			
131	Setto	169	160	161	170	3	3	20.0			
132	Setto	170	161	162	171	3	3	20.0			
133	Setto	171	162	163	172	3	3	20.0			
134	Setto	172	163	164	173	3	3	20.0			
135	Setto	173	164	165	174	3	3	20.0			
136	Setto	174	165	166	175	3	3	20.0			
137	Setto	177	168	167	176	3	3	20.0			
138	Setto	176	167	169	178	3	3	20.0			
139	Setto	178	169	170	179	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
140	Setto	179	170	171	180	3	3	20.0			
141	Setto	180	171	172	181	3	3	20.0			
142	Setto	181	172	173	182	3	3	20.0			
143	Setto	182	173	174	183	3	3	20.0			
144	Setto	183	174	175	184	3	3	20.0			
145	Setto	186	177	176	185	3	3	20.0			
146	Setto	185	176	178	187	3	3	20.0			
147	Setto	187	178	179	188	3	3	20.0			
148	Setto	188	179	180	189	3	3	20.0			
149	Setto	189	180	181	190	3	3	20.0			
150	Setto	190	181	182	191	3	3	20.0			
151	Setto	191	182	183	192	3	3	20.0			
152	Setto	192	183	184	193	3	3	20.0			
153	Setto	195	186	185	194	3	3	20.0			
154	Setto	1512	406	407	1479	3	3	20.0			
155	Setto	196	187	188	197	3	3	20.0			
156	Setto	197	188	189	198	3	3	20.0			
157	Setto	198	189	190	199	3	3	20.0			
158	Setto	199	190	191	200	3	3	20.0			
159	Setto	200	191	192	201	3	3	20.0			
160	Setto	201	192	193	202	3	3	20.0			
161	Setto	204	195	194	203	3	3	20.0			
162	Setto	415	1489	1491	408	3	3	20.0			
163	Setto	205	196	197	206	3	3	20.0			
164	Setto	206	197	198	207	3	3	20.0			
165	Setto	207	198	199	208	3	3	20.0			
166	Setto	208	199	200	209	3	3	20.0			
167	Setto	209	200	201	210	3	3	20.0			
168	Setto	210	201	202	211	3	3	20.0			
169	Setto	213	204	203	212	3	3	20.0			
170	Setto	212	203	205	214	3	3	20.0			
171	Setto	214	205	206	215	3	3	20.0			
172	Setto	215	206	207	216	3	3	20.0			
173	Setto	216	207	208	217	3	3	20.0			
174	Setto	217	208	209	218	3	3	20.0			
175	Setto	218	209	210	219	3	3	20.0			
176	Setto	219	210	211	220	3	3	20.0			
177	Setto	222	213	212	221	3	3	20.0			
178	Setto	221	212	214	223	3	3	20.0			
179	Setto	223	214	215	224	3	3	20.0			
180	Setto	224	215	216	225	3	3	20.0			
181	Setto	225	216	217	226	3	3	20.0			
182	Setto	226	217	218	227	3	3	20.0			
183	Setto	227	218	219	228	3	3	20.0			
184	Setto	228	219	220	229	3	3	20.0			
185	Setto	231	222	221	230	3	3	20.0			
186	Setto	230	221	223	232	3	3	20.0			
187	Setto	232	223	224	233	3	3	20.0			
188	Setto	233	224	225	234	3	3	20.0			
189	Setto	234	225	226	235	3	3	20.0			
190	Setto	235	226	227	236	3	3	20.0			
191	Setto	236	227	228	237	3	3	20.0			
192	Setto	237	228	229	238	3	3	20.0			
193	Setto	240	231	230	239	3	3	20.0			
194	Setto	239	230	232	241	3	3	20.0			
195	Setto	241	232	233	242	3	3	20.0			
196	Setto	242	233	234	243	3	3	20.0			
197	Setto	243	234	235	244	3	3	20.0			
198	Setto	244	235	236	245	3	3	20.0			
199	Setto	245	236	237	246	3	3	20.0			
200	Setto	246	237	238	247	3	3	20.0			
201	Setto	5	240	239	248	3	3	20.0			
202	Setto	248	239	241	249	3	3	20.0			
203	Setto	249	241	242	250	3	3	20.0			
204	Setto	250	242	243	251	3	3	20.0			
205	Setto	251	243	244	252	3	3	20.0			
206	Setto	252	244	245	253	3	3	20.0			
207	Setto	253	245	246	254	3	3	20.0			
208	Setto	254	246	247	255	3	3	20.0			
209	Setto	1	5	248	256	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
210	Setto	256	248	249	257	3	3	20.0			
211	Setto	257	249	250	258	3	3	20.0			
212	Setto	258	250	251	259	3	3	20.0			
213	Setto	259	251	252	260	3	3	20.0			
214	Setto	260	252	253	261	3	3	20.0			
215	Setto	261	253	254	262	3	3	20.0			
216	Setto	262	254	255	11	3	3	20.0			
217	Setto	1618	1614	1613	1617	3	3	20.0			
218	Setto	1619	1615	1616	1620	3	3	20.0			
219	Setto	1621	1617	1615	1619	3	3	20.0			
220	Setto	269	268	270	271	3	3	20.0			
221	Setto	271	270	272	273	3	3	20.0			
222	Setto	273	272	274	275	3	3	20.0			
223	Setto	275	274	276	277	3	3	20.0			
224	Setto	277	276	278	279	3	3	20.0			
225	Setto	1622	1618	1617	1621	3	3	20.0			
226	Setto	1623	1619	1620	1624	3	3	20.0			
227	Setto	471	461	460	470	3	3	20.0			
228	Setto	283	269	271	284	3	3	20.0			
229	Setto	284	271	273	285	3	3	20.0			
230	Setto	285	273	275	286	3	3	20.0			
231	Setto	286	275	277	287	3	3	20.0			
232	Setto	287	277	279	288	3	3	20.0			
233	Setto	1626	1622	1621	1625	3	3	20.0			
234	Setto	1627	1623	1624	1628	3	3	20.0			
235	Setto	470	460	462	478	3	3	20.0			
236	Setto	292	283	284	293	3	3	20.0			
237	Setto	293	284	285	294	3	3	20.0			
238	Setto	294	285	286	295	3	3	20.0			
239	Setto	295	286	287	296	3	3	20.0			
240	Setto	296	287	288	297	3	3	20.0			
241	Setto	1630	1626	1625	1629	3	3	20.0			
242	Setto	1631	1627	1628	1632	3	3	20.0			
243	Setto	478	462	469	479	3	3	20.0			
244	Setto	301	292	293	302	3	3	20.0			
245	Setto	302	293	294	303	3	3	20.0			
246	Setto	303	294	295	304	3	3	20.0			
247	Setto	304	295	296	305	3	3	20.0			
248	Setto	305	296	297	306	3	3	20.0			
249	Setto	1634	1630	1629	1633	3	3	20.0			
250	Setto	1244	1631	1632	1241	3	3	20.0			
251	Setto	487	471	470	480	3	3	20.0			
252	Setto	310	301	302	311	3	3	20.0			
253	Setto	311	302	303	312	3	3	20.0			
254	Setto	312	303	304	313	3	3	20.0			
255	Setto	313	304	305	314	3	3	20.0			
256	Setto	314	305	306	315	3	3	20.0			
257	Setto	1249	1634	1633	1247	3	3	20.0			
258	Setto	1635	1400	1398	1636	3	3	20.0			
259	Setto	1637	1402	1400	1635	3	3	20.0			
260	Setto	319	310	311	320	3	3	20.0			
261	Setto	320	311	312	321	3	3	20.0			
262	Setto	321	312	313	322	3	3	20.0			
263	Setto	322	313	314	323	3	3	20.0			
264	Setto	323	314	315	324	3	3	20.0			
265	Setto	1638	1404	1402	1637	3	3	20.0			
266	Setto	1639	1635	1636	1640	3	3	20.0			
267	Setto	1641	1637	1635	1639	3	3	20.0			
268	Setto	328	319	320	329	3	3	20.0			
269	Setto	329	320	321	330	3	3	20.0			
270	Setto	330	321	322	331	3	3	20.0			
271	Setto	331	322	323	332	3	3	20.0			
272	Setto	332	323	324	333	3	3	20.0			
273	Setto	1642	1638	1637	1641	3	3	20.0			
274	Setto	1643	1639	1640	1644	3	3	20.0			
275	Setto	1645	1641	1639	1643	3	3	20.0			
276	Setto	337	328	329	338	3	3	20.0			
277	Setto	338	329	330	339	3	3	20.0			
278	Setto	339	330	331	340	3	3	20.0			
279	Setto	340	331	332	341	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
280	Setto	341	332	333	342	3	3	20.0			
281	Setto	1646	1642	1641	1645	3	3	20.0			
282	Setto	1647	1643	1644	1648	3	3	20.0			
283	Setto	1649	1645	1643	1647	3	3	20.0			
284	Setto	346	337	338	347	3	3	20.0			
285	Setto	347	338	339	348	3	3	20.0			
286	Setto	348	339	340	349	3	3	20.0			
287	Setto	349	340	341	350	3	3	20.0			
288	Setto	350	341	342	351	3	3	20.0			
289	Setto	1650	1646	1645	1649	3	3	20.0			
290	Setto	1651	1647	1648	1652	3	3	20.0			
291	Setto	1653	1649	1647	1651	3	3	20.0			
292	Setto	355	346	347	356	3	3	20.0			
293	Setto	356	347	348	357	3	3	20.0			
294	Setto	357	348	349	358	3	3	20.0			
295	Setto	358	349	350	359	3	3	20.0			
296	Setto	359	350	351	360	3	3	20.0			
297	Setto	2	1650	1649	1653	3	3	20.0			
298	Setto	6	1651	1652	264	3	3	20.0			
299	Setto	265	1653	1651	6	3	3	20.0			
300	Setto	364	355	356	365	3	3	20.0			
301	Setto	365	356	357	366	3	3	20.0			
302	Setto	366	357	358	367	3	3	20.0			
303	Setto	367	358	359	368	3	3	20.0			
304	Setto	368	359	360	369	3	3	20.0			
305	Setto	267	2	1653	265	3	3	20.0			
306	Setto	280	6	264	281	3	3	20.0			
307	Setto	282	265	6	280	3	3	20.0			
308	Setto	373	364	365	374	3	3	20.0			
309	Setto	374	365	366	375	3	3	20.0			
310	Setto	375	366	367	376	3	3	20.0			
311	Setto	376	367	368	377	3	3	20.0			
312	Setto	377	368	369	378	3	3	20.0			
313	Setto	289	267	265	282	3	3	20.0			
314	Setto	290	280	281	291	3	3	20.0			
315	Setto	298	282	280	290	3	3	20.0			
316	Setto	382	373	374	383	3	3	20.0			
317	Setto	383	374	375	384	3	3	20.0			
318	Setto	384	375	376	385	3	3	20.0			
319	Setto	385	376	377	386	3	3	20.0			
320	Setto	386	377	378	387	3	3	20.0			
321	Setto	299	289	282	298	3	3	20.0			
322	Setto	1255	290	291	1253	3	3	20.0			
323	Setto	1257	298	290	1255	3	3	20.0			
324	Setto	391	382	383	392	3	3	20.0			
325	Setto	392	383	384	393	3	3	20.0			
326	Setto	393	384	385	394	3	3	20.0			
327	Setto	394	385	386	395	3	3	20.0			
328	Setto	395	386	387	396	3	3	20.0			
329	Setto	1259	299	298	1257	3	3	20.0			
330	Setto	300	1289	1287	307	3	3	20.0			
331	Setto	308	1291	1289	300	3	3	20.0			
332	Setto	400	391	392	401	3	3	20.0			
333	Setto	401	392	393	402	3	3	20.0			
334	Setto	402	393	394	403	3	3	20.0			
335	Setto	403	394	395	404	3	3	20.0			
336	Setto	404	395	396	405	3	3	20.0			
337	Setto	309	1293	1291	308	3	3	20.0			
338	Setto	316	300	307	317	3	3	20.0			
339	Setto	318	308	300	316	3	3	20.0			
340	Setto	409	400	401	410	3	3	20.0			
341	Setto	410	401	402	411	3	3	20.0			
342	Setto	411	402	403	412	3	3	20.0			
343	Setto	412	403	404	413	3	3	20.0			
344	Setto	413	404	405	414	3	3	20.0			
345	Setto	325	309	308	318	3	3	20.0			
346	Setto	1368	316	317	1366	3	3	20.0			
347	Setto	1370	318	316	1368	3	3	20.0			
348	Setto	418	409	410	419	3	3	20.0			
349	Setto	419	410	411	420	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
350	Setto	420	411	412	421	3	3	20.0			
351	Setto	421	412	413	422	3	3	20.0			
352	Setto	422	413	414	423	3	3	20.0			
353	Setto	1356	325	318	1370	3	3	20.0			
354	Setto	326	1383	1381	327	3	3	20.0			
355	Setto	334	1385	1383	326	3	3	20.0			
356	Setto	427	418	419	428	3	3	20.0			
357	Setto	428	419	420	429	3	3	20.0			
358	Setto	429	420	421	430	3	3	20.0			
359	Setto	430	421	422	431	3	3	20.0			
360	Setto	431	422	423	432	3	3	20.0			
361	Setto	335	1387	1385	334	3	3	20.0			
362	Setto	336	326	327	343	3	3	20.0			
363	Setto	344	334	326	336	3	3	20.0			
364	Setto	436	427	428	437	3	3	20.0			
365	Setto	437	428	429	438	3	3	20.0			
366	Setto	438	429	430	439	3	3	20.0			
367	Setto	439	430	431	440	3	3	20.0			
368	Setto	440	431	432	441	3	3	20.0			
369	Setto	345	335	334	344	3	3	20.0			
370	Setto	1429	336	343	1428	3	3	20.0			
371	Setto	1430	344	336	1429	3	3	20.0			
372	Setto	445	436	437	446	3	3	20.0			
373	Setto	446	437	438	447	3	3	20.0			
374	Setto	447	438	439	448	3	3	20.0			
375	Setto	448	439	440	449	3	3	20.0			
376	Setto	449	440	441	450	3	3	20.0			
377	Setto	1388	345	344	1430	3	3	20.0			
378	Setto	352	1367	1365	353	3	3	20.0			
379	Setto	354	1369	1367	352	3	3	20.0			
380	Setto	454	445	446	455	3	3	20.0			
381	Setto	455	446	447	456	3	3	20.0			
382	Setto	456	447	448	457	3	3	20.0			
383	Setto	457	448	449	458	3	3	20.0			
384	Setto	458	449	450	459	3	3	20.0			
385	Setto	361	1371	1369	354	3	3	20.0			
386	Setto	362	352	353	363	3	3	20.0			
387	Setto	370	354	352	362	3	3	20.0			
388	Setto	463	454	455	464	3	3	20.0			
389	Setto	464	455	456	465	3	3	20.0			
390	Setto	465	456	457	466	3	3	20.0			
391	Setto	466	457	458	467	3	3	20.0			
392	Setto	467	458	459	468	3	3	20.0			
393	Setto	371	361	354	370	3	3	20.0			
394	Setto	372	362	363	379	3	3	20.0			
395	Setto	380	370	362	372	3	3	20.0			
396	Setto	472	463	464	473	3	3	20.0			
397	Setto	473	464	465	474	3	3	20.0			
398	Setto	474	465	466	475	3	3	20.0			
399	Setto	475	466	467	476	3	3	20.0			
400	Setto	476	467	468	477	3	3	20.0			
401	Setto	381	371	370	380	3	3	20.0			
402	Setto	1384	372	379	1382	3	3	20.0			
403	Setto	1386	380	372	1384	3	3	20.0			
404	Setto	481	472	473	482	3	3	20.0			
405	Setto	482	473	474	483	3	3	20.0			
406	Setto	483	474	475	484	3	3	20.0			
407	Setto	484	475	476	485	3	3	20.0			
408	Setto	485	476	477	486	3	3	20.0			
409	Setto	1372	381	380	1386	3	3	20.0			
410	Setto	389	1471	1473	388	3	3	20.0			
411	Setto	388	1473	1475	390	3	3	20.0			
412	Setto	490	481	482	491	3	3	20.0			
413	Setto	491	482	483	492	3	3	20.0			
414	Setto	492	483	484	493	3	3	20.0			
415	Setto	493	484	485	494	3	3	20.0			
416	Setto	494	485	486	495	3	3	20.0			
417	Setto	390	1475	1477	397	3	3	20.0			
418	Setto	399	389	388	398	3	3	20.0			
419	Setto	398	388	390	406	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
420	Setto	498	490	491	499	3	3	20.0			
421	Setto	499	491	492	500	3	3	20.0			
422	Setto	500	492	493	501	3	3	20.0			
423	Setto	501	493	494	502	3	3	20.0			
424	Setto	502	494	495	503	3	3	20.0			
425	Setto	406	390	397	407	3	3	20.0			
426	Setto	1510	399	398	1511	3	3	20.0			
427	Setto	1511	398	406	1512	3	3	20.0			
428	Setto	506	498	499	507	3	3	20.0			
429	Setto	507	499	500	508	3	3	20.0			
430	Setto	508	500	501	509	3	3	20.0			
431	Setto	509	501	502	510	3	3	20.0			
432	Setto	510	502	503	12	3	3	20.0			
433	Setto	11	255	519		3	3	20.0			
434	Setto	600	617	534		3	3	20.0			
435	Setto	631	640	528	527	3	3	20.0			
436	Setto	640	605	618	528	3	3	20.0			
437	Setto	959	969	968	958	3	3	20.0			
438	Setto	539	624	642	548	3	3	20.0			
439	Setto	548	642	643	557	3	3	20.0			
440	Setto	641	557	531	530	3	3	20.0			
441	Setto	557	643	568	531	3	3	20.0			
442	Setto	567	634	635	512	3	3	20.0			
443	Setto	960	970	969	959	3	3	20.0			
444	Setto	598	615	616	599	3	3	20.0			
445	Setto	112	103	580	576	3	3	20.0			
446	Setto	512	635	533	532	3	3	20.0			
447	Setto	635	599	600	533	3	3	20.0			
448	Setto	961	971	970	960	3	3	20.0			
449	Setto	632	548	557	641	3	3	20.0			
450	Setto	599	616	617	600	3	3	20.0			
451	Setto	576	580	606	585	3	3	20.0			
452	Setto	617	578	535	534	3	3	20.0			
453	Setto	578	590	591	535	3	3	20.0			
454	Setto	962	972	971	961	3	3	20.0			
455	Setto	121	112	576	595	3	3	20.0			
456	Setto	595	576	585	529	3	3	20.0			
457	Setto	550	561	537	536	3	3	20.0			
458	Setto	561	518	13	537	3	3	20.0			
459	Setto	963	973	974	964	3	3	20.0			
460	Setto	238	229	547	538	3	3	20.0			
461	Setto	538	547	521		3	3	20.0			
462	Setto	634	598	599	635	3	3	20.0			
463	Setto	585	606	624	539	3	3	20.0			
464	Setto	255	247	520	519	3	3	20.0			
465	Setto	247	238	538	520	3	3	20.0			
466	Setto	965	975	973	963	3	3	20.0			
467	Setto	636	625	626	511	3	3	20.0			
468	Setto	511	626	627	604	3	3	20.0			
469	Setto	229	220	556	547	3	3	20.0			
470	Setto	604	627	633	613	3	3	20.0			
471	Setto	547	556	522	521	3	3	20.0			
472	Setto	556	565	566	522	3	3	20.0			
473	Setto	966	976	975	965	3	3	20.0			
474	Setto	568	512	532		3	3	20.0			
475	Setto	627	596	597	633	3	3	20.0			
476	Setto	575	584	524	523	3	3	20.0			
477	Setto	584	593	594	524	3	3	20.0			
478	Setto	220	211	565	556	3	3	20.0			
479	Setto	613	633	634	567	3	3	20.0			
480	Setto	967	977	976	966	3	3	20.0			
481	Setto	606	511	604	624	3	3	20.0			
482	Setto	624	604	613	642	3	3	20.0			
483	Setto	603	612	526	525	3	3	20.0			
484	Setto	612	621	622	526	3	3	20.0			
485	Setto	968	978	977	967	3	3	20.0			
486	Setto	626	540	596	627	3	3	20.0			
487	Setto	211	202	574	565	3	3	20.0			
488	Setto	565	574	575	566	3	3	20.0			
489	Setto	566	575	523		3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
490	Setto	40	31	552	541	3	3	20.0			
491	Setto	541	552	553	542	3	3	20.0			
492	Setto	542	553	554	543	3	3	20.0			
493	Setto	543	554	555	544	3	3	20.0			
494	Setto	544	555	558	545	3	3	20.0			
495	Setto	545	558	559	546	3	3	20.0			
496	Setto	202	193	583	574	3	3	20.0			
497	Setto	574	583	584	575	3	3	20.0			
498	Setto	633	597	598	634	3	3	20.0			
499	Setto	546	559	560	549	3	3	20.0			
500	Setto	549	560	561	550	3	3	20.0			
501	Setto	529	585	539	623	3	3	20.0			
502	Setto	31	30	563	552	3	3	20.0			
503	Setto	552	563	564	553	3	3	20.0			
504	Setto	553	564	513	554	3	3	20.0			
505	Setto	193	184	592	583	3	3	20.0			
506	Setto	583	592	593	584	3	3	20.0			
507	Setto	94	85	625	636	3	3	20.0			
508	Setto	554	513	514	555	3	3	20.0			
509	Setto	555	514	515	558	3	3	20.0			
510	Setto	558	515	516	559	3	3	20.0			
511	Setto	559	516	517	560	3	3	20.0			
512	Setto	560	517	518	561	3	3	20.0			
513	Setto	623	539	548	632	3	3	20.0			
514	Setto	184	175	601	592	3	3	20.0			
515	Setto	592	601	602	593	3	3	20.0			
516	Setto	593	602	603	594	3	3	20.0			
517	Setto	594	603	525		3	3	20.0			
518	Setto	571	586	587	572	3	3	20.0			
519	Setto	572	587	588	573	3	3	20.0			
520	Setto	573	588	589	577	3	3	20.0			
521	Setto	577	589	590	578	3	3	20.0			
522	Setto	596	609	614	597	3	3	20.0			
523	Setto	175	166	610	601	3	3	20.0			
524	Setto	601	610	611	602	3	3	20.0			
525	Setto	602	611	612	603	3	3	20.0			
526	Setto	642	613	567	643	3	3	20.0			
527	Setto	85	76	644	625	3	3	20.0			
528	Setto	49	40	541	581	3	3	20.0			
529	Setto	581	541	542	582	3	3	20.0			
530	Setto	582	542	543	586	3	3	20.0			
531	Setto	586	543	544	587	3	3	20.0			
532	Setto	166	157	619	610	3	3	20.0			
533	Setto	610	619	620	611	3	3	20.0			
534	Setto	611	620	621	612	3	3	20.0			
535	Setto	643	567	512	568	3	3	20.0			
536	Setto	587	544	545	588	3	3	20.0			
537	Setto	588	545	546	589	3	3	20.0			
538	Setto	589	546	549	590	3	3	20.0			
539	Setto	590	549	550	591	3	3	20.0			
540	Setto	591	550	536		3	3	20.0			
541	Setto	157	148	628	619	3	3	20.0			
542	Setto	619	628	629	620	3	3	20.0			
543	Setto	620	629	630	621	3	3	20.0			
544	Setto	621	630	631	622	3	3	20.0			
545	Setto	622	631	527		3	3	20.0			
546	Setto	67	58	569	607	3	3	20.0			
547	Setto	607	569	570	608	3	3	20.0			
548	Setto	608	570	571	609	3	3	20.0			
549	Setto	609	571	572	614	3	3	20.0			
550	Setto	148	139	637	628	3	3	20.0			
551	Setto	628	637	638	629	3	3	20.0			
552	Setto	629	638	639	630	3	3	20.0			
553	Setto	630	639	640	631	3	3	20.0			
554	Setto	103	94	636	580	3	3	20.0			
555	Setto	614	572	573	615	3	3	20.0			
556	Setto	615	573	577	616	3	3	20.0			
557	Setto	616	577	578	617	3	3	20.0			
558	Setto	597	614	615	598	3	3	20.0			
559	Setto	139	130	551	637	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
560	Setto	637	551	562	638	3	3	20.0			
561	Setto	638	562	579	639	3	3	20.0			
562	Setto	639	579	605	640	3	3	20.0			
563	Setto	580	636	511	606	3	3	20.0			
564	Setto	625	644	540	626	3	3	20.0			
565	Setto	58	49	581	569	3	3	20.0			
566	Setto	569	581	582	570	3	3	20.0			
567	Setto	570	582	586	571	3	3	20.0			
568	Setto	130	121	595	551	3	3	20.0			
569	Setto	551	595	529	562	3	3	20.0			
570	Setto	562	529	623	579	3	3	20.0			
571	Setto	579	623	632	605	3	3	20.0			
572	Setto	605	632	641	618	3	3	20.0			
573	Setto	618	641	530		3	3	20.0			
574	Setto	76	67	607	644	3	3	20.0			
575	Setto	644	607	608	540	3	3	20.0			
576	Setto	540	608	609	596	3	3	20.0			
577	Setto	12	503	654		3	3	20.0			
578	Setto	735	752	669		3	3	20.0			
579	Setto	766	775	663	662	3	3	20.0			
580	Setto	775	740	753	663	3	3	20.0			
581	Setto	969	979	978	968	3	3	20.0			
582	Setto	674	759	777	683	3	3	20.0			
583	Setto	683	777	778	692	3	3	20.0			
584	Setto	776	692	666	665	3	3	20.0			
585	Setto	692	778	703	666	3	3	20.0			
586	Setto	702	769	770	647	3	3	20.0			
587	Setto	970	980	979	969	3	3	20.0			
588	Setto	733	750	751	734	3	3	20.0			
589	Setto	360	351	715	711	3	3	20.0			
590	Setto	647	770	668	667	3	3	20.0			
591	Setto	770	734	735	668	3	3	20.0			
592	Setto	971	981	980	970	3	3	20.0			
593	Setto	767	683	692	776	3	3	20.0			
594	Setto	734	751	752	735	3	3	20.0			
595	Setto	711	715	741	720	3	3	20.0			
596	Setto	752	713	670	669	3	3	20.0			
597	Setto	713	725	726	670	3	3	20.0			
598	Setto	972	982	981	971	3	3	20.0			
599	Setto	369	360	711	730	3	3	20.0			
600	Setto	730	711	720	664	3	3	20.0			
601	Setto	685	696	672	671	3	3	20.0			
602	Setto	696	653	14	672	3	3	20.0			
603	Setto	973	843	844	974	3	3	20.0			
604	Setto	486	477	682	673	3	3	20.0			
605	Setto	673	682	656		3	3	20.0			
606	Setto	769	733	734	770	3	3	20.0			
607	Setto	720	741	759	674	3	3	20.0			
608	Setto	503	495	655	654	3	3	20.0			
609	Setto	495	486	673	655	3	3	20.0			
610	Setto	975	845	843	973	3	3	20.0			
611	Setto	771	760	761	646	3	3	20.0			
612	Setto	646	761	762	739	3	3	20.0			
613	Setto	477	468	691	682	3	3	20.0			
614	Setto	739	762	768	748	3	3	20.0			
615	Setto	682	691	657	656	3	3	20.0			
616	Setto	691	700	701	657	3	3	20.0			
617	Setto	976	846	845	975	3	3	20.0			
618	Setto	703	647	667		3	3	20.0			
619	Setto	762	731	732	768	3	3	20.0			
620	Setto	710	719	659	658	3	3	20.0			
621	Setto	719	728	729	659	3	3	20.0			
622	Setto	468	459	700	691	3	3	20.0			
623	Setto	748	768	769	702	3	3	20.0			
624	Setto	977	847	846	976	3	3	20.0			
625	Setto	741	646	739	759	3	3	20.0			
626	Setto	759	739	748	777	3	3	20.0			
627	Setto	738	747	661	660	3	3	20.0			
628	Setto	747	756	757	661	3	3	20.0			
629	Setto	978	848	847	977	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
630	Setto	761	675	731	762	3	3	20.0			
631	Setto	459	450	709	700	3	3	20.0			
632	Setto	700	709	710	701	3	3	20.0			
633	Setto	701	710	658		3	3	20.0			
634	Setto	288	279	687	676	3	3	20.0			
635	Setto	676	687	688	677	3	3	20.0			
636	Setto	677	688	689	678	3	3	20.0			
637	Setto	678	689	690	679	3	3	20.0			
638	Setto	679	690	693	680	3	3	20.0			
639	Setto	680	693	694	681	3	3	20.0			
640	Setto	450	441	718	709	3	3	20.0			
641	Setto	709	718	719	710	3	3	20.0			
642	Setto	768	732	733	769	3	3	20.0			
643	Setto	681	694	695	684	3	3	20.0			
644	Setto	684	695	696	685	3	3	20.0			
645	Setto	664	720	674	758	3	3	20.0			
646	Setto	279	278	698	687	3	3	20.0			
647	Setto	687	698	699	688	3	3	20.0			
648	Setto	688	699	648	689	3	3	20.0			
649	Setto	441	432	727	718	3	3	20.0			
650	Setto	718	727	728	719	3	3	20.0			
651	Setto	342	333	760	771	3	3	20.0			
652	Setto	689	648	649	690	3	3	20.0			
653	Setto	690	649	650	693	3	3	20.0			
654	Setto	693	650	651	694	3	3	20.0			
655	Setto	694	651	652	695	3	3	20.0			
656	Setto	695	652	653	696	3	3	20.0			
657	Setto	758	674	683	767	3	3	20.0			
658	Setto	432	423	736	727	3	3	20.0			
659	Setto	727	736	737	728	3	3	20.0			
660	Setto	728	737	738	729	3	3	20.0			
661	Setto	729	738	660		3	3	20.0			
662	Setto	706	721	722	707	3	3	20.0			
663	Setto	707	722	723	708	3	3	20.0			
664	Setto	708	723	724	712	3	3	20.0			
665	Setto	712	724	725	713	3	3	20.0			
666	Setto	731	744	749	732	3	3	20.0			
667	Setto	423	414	745	736	3	3	20.0			
668	Setto	736	745	746	737	3	3	20.0			
669	Setto	737	746	747	738	3	3	20.0			
670	Setto	777	748	702	778	3	3	20.0			
671	Setto	333	324	779	760	3	3	20.0			
672	Setto	297	288	676	716	3	3	20.0			
673	Setto	716	676	677	717	3	3	20.0			
674	Setto	717	677	678	721	3	3	20.0			
675	Setto	721	678	679	722	3	3	20.0			
676	Setto	414	405	754	745	3	3	20.0			
677	Setto	745	754	755	746	3	3	20.0			
678	Setto	746	755	756	747	3	3	20.0			
679	Setto	778	702	647	703	3	3	20.0			
680	Setto	722	679	680	723	3	3	20.0			
681	Setto	723	680	681	724	3	3	20.0			
682	Setto	724	681	684	725	3	3	20.0			
683	Setto	725	684	685	726	3	3	20.0			
684	Setto	726	685	671		3	3	20.0			
685	Setto	405	396	763	754	3	3	20.0			
686	Setto	754	763	764	755	3	3	20.0			
687	Setto	755	764	765	756	3	3	20.0			
688	Setto	756	765	766	757	3	3	20.0			
689	Setto	757	766	662		3	3	20.0			
690	Setto	315	306	704	742	3	3	20.0			
691	Setto	742	704	705	743	3	3	20.0			
692	Setto	743	705	706	744	3	3	20.0			
693	Setto	744	706	707	749	3	3	20.0			
694	Setto	396	387	772	763	3	3	20.0			
695	Setto	763	772	773	764	3	3	20.0			
696	Setto	764	773	774	765	3	3	20.0			
697	Setto	765	774	775	766	3	3	20.0			
698	Setto	351	342	771	715	3	3	20.0			
699	Setto	749	707	708	750	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
700	Setto	750	708	712	751	3	3	20.0			
701	Setto	751	712	713	752	3	3	20.0			
702	Setto	732	749	750	733	3	3	20.0			
703	Setto	387	378	686	772	3	3	20.0			
704	Setto	772	686	697	773	3	3	20.0			
705	Setto	773	697	714	774	3	3	20.0			
706	Setto	774	714	740	775	3	3	20.0			
707	Setto	715	771	646	741	3	3	20.0			
708	Setto	760	779	675	761	3	3	20.0			
709	Setto	306	297	716	704	3	3	20.0			
710	Setto	704	716	717	705	3	3	20.0			
711	Setto	705	717	721	706	3	3	20.0			
712	Setto	378	369	730	686	3	3	20.0			
713	Setto	686	730	664	697	3	3	20.0			
714	Setto	697	664	758	714	3	3	20.0			
715	Setto	714	758	767	740	3	3	20.0			
716	Setto	740	767	776	753	3	3	20.0			
717	Setto	753	776	665		3	3	20.0			
718	Setto	324	315	742	779	3	3	20.0			
719	Setto	779	742	743	675	3	3	20.0			
720	Setto	675	743	744	731	3	3	20.0			
721	Setto	791	782	781	790	3	3	25.0			
722	Setto	790	781	783	792	3	3	25.0			
723	Setto	792	783	784	793	3	3	25.0			
724	Setto	793	784	785	794	3	3	25.0			
725	Setto	794	785	786	795	3	3	25.0			
726	Setto	795	786	787	796	3	3	25.0			
727	Setto	796	787	788	797	3	3	25.0			
728	Setto	797	788	789	798	3	3	25.0			
729	Setto	7	791	790	799	3	3	25.0			
730	Setto	799	790	792	800	3	3	25.0			
731	Setto	800	792	793	801	3	3	25.0			
732	Setto	801	793	794	802	3	3	25.0			
733	Setto	802	794	795	803	3	3	25.0			
734	Setto	803	795	796	804	3	3	25.0			
735	Setto	804	796	797	805	3	3	25.0			
736	Setto	805	797	798	806	3	3	25.0			
737	Setto	806	798	808	807	3	3	25.0			
738	Setto	798	789	809	808	3	3	25.0			
739	Setto	979	849	848	978	3	3	20.0			
740	Setto	822	813	812	821	3	3	25.0			
741	Setto	821	812	814	823	3	3	25.0			
742	Setto	823	814	815	824	3	3	25.0			
743	Setto	824	815	816	825	3	3	25.0			
744	Setto	825	816	817	826	3	3	25.0			
745	Setto	826	817	818	827	3	3	25.0			
746	Setto	827	818	819	828	3	3	25.0			
747	Setto	828	819	820	829	3	3	25.0			
748	Setto	8	822	821	830	3	3	25.0			
749	Setto	830	821	823	831	3	3	25.0			
750	Setto	831	823	824	832	3	3	25.0			
751	Setto	832	824	825	833	3	3	25.0			
752	Setto	833	825	826	834	3	3	25.0			
753	Setto	834	826	827	835	3	3	25.0			
754	Setto	835	827	828	836	3	3	25.0			
755	Setto	836	828	829	837	3	3	25.0			
756	Setto	837	829	839	838	3	3	25.0			
757	Setto	829	820	840	839	3	3	25.0			
758	Setto	980	850	849	979	3	3	20.0			
759	Setto	853	844	843	852	3	3	25.0			
760	Setto	852	843	845	854	3	3	25.0			
761	Setto	854	845	846	855	3	3	25.0			
762	Setto	855	846	847	856	3	3	25.0			
763	Setto	856	847	848	857	3	3	25.0			
764	Setto	857	848	849	858	3	3	25.0			
765	Setto	858	849	850	859	3	3	25.0			
766	Setto	859	850	851	860	3	3	25.0			
767	Setto	9	853	852	861	3	3	25.0			
768	Setto	861	852	854	862	3	3	25.0			
769	Setto	862	854	855	863	3	3	25.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
770	Setto	863	855	856	864	3	3	25.0			
771	Setto	864	856	857	865	3	3	25.0			
772	Setto	865	857	858	866	3	3	25.0			
773	Setto	866	858	859	867	3	3	25.0			
774	Setto	867	859	860	868	3	3	25.0			
775	Setto	868	860	870	869	3	3	25.0			
776	Setto	860	851	871	870	3	3	25.0			
777	Setto	981	851	850	980	3	3	20.0			
778	Setto	884	875	874	883	3	3	25.0			
779	Setto	883	874	876	885	3	3	25.0			
780	Setto	885	876	877	886	3	3	25.0			
781	Setto	886	877	878	887	3	3	25.0			
782	Setto	887	878	879	888	3	3	25.0			
783	Setto	888	879	880	889	3	3	25.0			
784	Setto	889	880	881	890	3	3	25.0			
785	Setto	890	881	882	891	3	3	25.0			
786	Setto	10	884	883	892	3	3	25.0			
787	Setto	892	883	885	893	3	3	25.0			
788	Setto	893	885	886	894	3	3	25.0			
789	Setto	894	886	887	895	3	3	25.0			
790	Setto	895	887	888	896	3	3	25.0			
791	Setto	896	888	889	897	3	3	25.0			
792	Setto	897	889	890	898	3	3	25.0			
793	Setto	898	890	891	899	3	3	25.0			
794	Setto	899	891	901	900	3	3	25.0			
795	Setto	891	882	902	901	3	3	25.0			
796	Setto	982	871	851	981	3	3	20.0			
797	Setto	812	903	904	813	3	3	20.0			
798	Setto	814	905	903	812	3	3	20.0			
799	Setto	815	906	905	814	3	3	20.0			
800	Setto	816	907	906	815	3	3	20.0			
801	Setto	817	908	907	816	3	3	20.0			
802	Setto	818	909	908	817	3	3	20.0			
803	Setto	819	910	909	818	3	3	20.0			
804	Setto	820	911	910	819	3	3	20.0			
805	Setto	840	912	911	820	3	3	20.0			
806	Setto	903	913	914	904	3	3	20.0			
807	Setto	905	915	913	903	3	3	20.0			
808	Setto	906	916	915	905	3	3	20.0			
809	Setto	907	917	916	906	3	3	20.0			
810	Setto	908	918	917	907	3	3	20.0			
811	Setto	909	919	918	908	3	3	20.0			
812	Setto	910	920	919	909	3	3	20.0			
813	Setto	911	921	920	910	3	3	20.0			
814	Setto	912	922	921	911	3	3	20.0			
815	Setto	913	923	924	914	3	3	20.0			
816	Setto	915	925	923	913	3	3	20.0			
817	Setto	916	926	925	915	3	3	20.0			
818	Setto	917	927	926	916	3	3	20.0			
819	Setto	918	928	927	917	3	3	20.0			
820	Setto	919	929	928	918	3	3	20.0			
821	Setto	920	930	929	919	3	3	20.0			
822	Setto	921	931	930	920	3	3	20.0			
823	Setto	922	932	931	921	3	3	20.0			
824	Setto	923	933	934	924	3	3	20.0			
825	Setto	442	426	433	443	3	3	20.0			
826	Setto	926	936	935	925	3	3	20.0			
827	Setto	927	937	936	926	3	3	20.0			
828	Setto	928	938	937	927	3	3	20.0			
829	Setto	929	939	938	928	3	3	20.0			
830	Setto	930	940	939	929	3	3	20.0			
831	Setto	931	941	940	930	3	3	20.0			
832	Setto	932	942	941	931	3	3	20.0			
833	Setto	933	943	944	934	3	3	20.0			
834	Setto	451	435	434	444	3	3	20.0			
835	Setto	936	946	945	935	3	3	20.0			
836	Setto	937	947	946	936	3	3	20.0			
837	Setto	938	948	947	937	3	3	20.0			
838	Setto	939	949	948	938	3	3	20.0			
839	Setto	940	950	949	939	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
840	Setto	941	951	950	940	3	3	20.0			
841	Setto	942	952	951	941	3	3	20.0			
842	Setto	943	953	954	944	3	3	20.0			
843	Setto	444	434	442	452	3	3	20.0			
844	Setto	946	956	955	945	3	3	20.0			
845	Setto	947	957	956	946	3	3	20.0			
846	Setto	948	958	957	947	3	3	20.0			
847	Setto	949	959	958	948	3	3	20.0			
848	Setto	950	960	959	949	3	3	20.0			
849	Setto	951	961	960	950	3	3	20.0			
850	Setto	952	962	961	951	3	3	20.0			
851	Setto	953	963	964	954	3	3	20.0			
852	Setto	955	965	963	953	3	3	20.0			
853	Setto	956	966	965	955	3	3	20.0			
854	Setto	957	967	966	956	3	3	20.0			
855	Setto	958	968	967	957	3	3	20.0			
856	Setto	1056	1053	1054	1055	3	3	20.0			
857	Setto	1055	1054	1057	1058	3	3	20.0			
858	Setto	1058	1057	1059	1060	3	3	20.0			
859	Setto	1060	1059	1061	1062	3	3	20.0			
860	Setto	1062	1061	1063	1064	3	3	20.0			
861	Setto	1064	1063	1065	1066	3	3	20.0			
862	Setto	1066	1065	1067	1068	3	3	20.0			
863	Setto	1068	1067	1069	1070	3	3	20.0			
864	Setto	1072	1056	1055	1071	3	3	20.0			
865	Setto	1071	1055	1058	1073	3	3	20.0			
866	Setto	1073	1058	1060	1074	3	3	20.0			
867	Setto	1074	1060	1062	1075	3	3	20.0			
868	Setto	1075	1062	1064	1076	3	3	20.0			
869	Setto	1076	1064	1066	1077	3	3	20.0			
870	Setto	1077	1066	1068	1078	3	3	20.0			
871	Setto	1078	1068	1070	1079	3	3	20.0			
872	Setto	1081	1072	1071	1080	3	3	20.0			
873	Setto	1080	1071	1073	1082	3	3	20.0			
874	Setto	1082	1073	1074	1083	3	3	20.0			
875	Setto	1083	1074	1075	1084	3	3	20.0			
876	Setto	1084	1075	1076	1085	3	3	20.0			
877	Setto	1085	1076	1077	1086	3	3	20.0			
878	Setto	1086	1077	1078	1087	3	3	20.0			
879	Setto	1087	1078	1079	1088	3	3	20.0			
880	Setto	1090	1081	1080	1089	3	3	20.0			
881	Setto	1089	1080	1082	1091	3	3	20.0			
882	Setto	1091	1082	1083	1092	3	3	20.0			
883	Setto	1092	1083	1084	1093	3	3	20.0			
884	Setto	1093	1084	1085	1094	3	3	20.0			
885	Setto	1094	1085	1086	1095	3	3	20.0			
886	Setto	1095	1086	1087	1096	3	3	20.0			
887	Setto	1096	1087	1088	1097	3	3	20.0			
888	Setto	1099	1090	1089	1098	3	3	20.0			
889	Setto	1098	1089	1091	1100	3	3	20.0			
890	Setto	1100	1091	1092	1101	3	3	20.0			
891	Setto	1101	1092	1093	1102	3	3	20.0			
892	Setto	1102	1093	1094	1103	3	3	20.0			
893	Setto	1103	1094	1095	1104	3	3	20.0			
894	Setto	1104	1095	1096	1105	3	3	20.0			
895	Setto	1105	1096	1097	1106	3	3	20.0			
896	Setto	1108	1099	1098	1107	3	3	20.0			
897	Setto	1731	1729	1730	1732	3	3	20.0			
898	Setto	1109	1100	1101	1110	3	3	20.0			
899	Setto	1110	1101	1102	1111	3	3	20.0			
900	Setto	1111	1102	1103	1112	3	3	20.0			
901	Setto	1112	1103	1104	1113	3	3	20.0			
902	Setto	1113	1104	1105	1114	3	3	20.0			
903	Setto	1114	1105	1106	1115	3	3	20.0			
904	Setto	1117	1108	1107	1116	3	3	20.0			
905	Setto	1732	1730	498	506	3	3	20.0			
906	Setto	1118	1109	1110	1119	3	3	20.0			
907	Setto	1119	1110	1111	1120	3	3	20.0			
908	Setto	1120	1111	1112	1121	3	3	20.0			
909	Setto	1121	1112	1113	1122	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
910	Setto	1122	1113	1114	1123	3	3	20.0			
911	Setto	1123	1114	1115	1124	3	3	20.0			
912	Setto	1126	1117	1116	1125	3	3	20.0			
913	Setto	1125	1116	1118	1127	3	3	20.0			
914	Setto	1127	1118	1119	1128	3	3	20.0			
915	Setto	1128	1119	1120	1129	3	3	20.0			
916	Setto	1129	1120	1121	1130	3	3	20.0			
917	Setto	1130	1121	1122	1131	3	3	20.0			
918	Setto	1131	1122	1123	1132	3	3	20.0			
919	Setto	1132	1123	1124	1133	3	3	20.0			
920	Setto	1135	1126	1125	1134	3	3	20.0			
921	Setto	1134	1125	1127	1136	3	3	20.0			
922	Setto	1136	1127	1128	1137	3	3	20.0			
923	Setto	1137	1128	1129	1138	3	3	20.0			
924	Setto	1138	1129	1130	1139	3	3	20.0			
925	Setto	1139	1130	1131	1140	3	3	20.0			
926	Setto	1140	1131	1132	1141	3	3	20.0			
927	Setto	1141	1132	1133	1142	3	3	20.0			
928	Setto	1144	1135	1134	1143	3	3	20.0			
929	Setto	1143	1134	1136	1145	3	3	20.0			
930	Setto	1145	1136	1137	1146	3	3	20.0			
931	Setto	1146	1137	1138	1147	3	3	20.0			
932	Setto	1147	1138	1139	1148	3	3	20.0			
933	Setto	1148	1139	1140	1149	3	3	20.0			
934	Setto	1149	1140	1141	1150	3	3	20.0			
935	Setto	1150	1141	1142	1151	3	3	20.0			
936	Setto	1153	1144	1143	1152	3	3	20.0			
937	Setto	1152	1143	1145	1154	3	3	20.0			
938	Setto	1154	1145	1146	1155	3	3	20.0			
939	Setto	1155	1146	1147	1156	3	3	20.0			
940	Setto	1156	1147	1148	1157	3	3	20.0			
941	Setto	1157	1148	1149	1158	3	3	20.0			
942	Setto	1158	1149	1150	1159	3	3	20.0			
943	Setto	1159	1150	1151	1160	3	3	20.0			
944	Setto	1162	1153	1152	1161	3	3	20.0			
945	Setto	1161	1152	1154	1163	3	3	20.0			
946	Setto	1163	1154	1155	1164	3	3	20.0			
947	Setto	1164	1155	1156	1165	3	3	20.0			
948	Setto	1165	1156	1157	1166	3	3	20.0			
949	Setto	1166	1157	1158	1167	3	3	20.0			
950	Setto	1167	1158	1159	1168	3	3	20.0			
951	Setto	1168	1159	1160	1169	3	3	20.0			
952	Setto	1171	1162	1161	1170	3	3	20.0			
953	Setto	1170	1161	1163	1172	3	3	20.0			
954	Setto	1172	1163	1164	1173	3	3	20.0			
955	Setto	1173	1164	1165	1174	3	3	20.0			
956	Setto	1174	1165	1166	1175	3	3	20.0			
957	Setto	1175	1166	1167	1176	3	3	20.0			
958	Setto	1176	1167	1168	1177	3	3	20.0			
959	Setto	1177	1168	1169	1178	3	3	20.0			
960	Setto	1180	1171	1170	1179	3	3	20.0			
961	Setto	1179	1170	1172	1181	3	3	20.0			
962	Setto	1181	1172	1173	1182	3	3	20.0			
963	Setto	1182	1173	1174	1183	3	3	20.0			
964	Setto	1183	1174	1175	1184	3	3	20.0			
965	Setto	1184	1175	1176	1185	3	3	20.0			
966	Setto	1185	1176	1177	1186	3	3	20.0			
967	Setto	1186	1177	1178	1187	3	3	20.0			
968	Setto	1189	1180	1179	1188	3	3	20.0			
969	Setto	1188	1179	1181	1190	3	3	20.0			
970	Setto	1190	1181	1182	1191	3	3	20.0			
971	Setto	1191	1182	1183	1192	3	3	20.0			
972	Setto	1192	1183	1184	1193	3	3	20.0			
973	Setto	1193	1184	1185	1194	3	3	20.0			
974	Setto	1194	1185	1186	1195	3	3	20.0			
975	Setto	1195	1186	1187	1196	3	3	20.0			
976	Setto	1198	1189	1188	1197	3	3	20.0			
977	Setto	1197	1188	1190	1199	3	3	20.0			
978	Setto	1199	1190	1191	1200	3	3	20.0			
979	Setto	1200	1191	1192	1201	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
980	Setto	1201	1192	1193	1202	3	3	20.0			
981	Setto	1202	1193	1194	1203	3	3	20.0			
982	Setto	1203	1194	1195	1204	3	3	20.0			
983	Setto	1204	1195	1196	1205	3	3	20.0			
984	Setto	1455	1198	1197	1454	3	3	20.0			
985	Setto	1454	1197	1199	1456	3	3	20.0			
986	Setto	1456	1199	1200	1457	3	3	20.0			
987	Setto	1457	1200	1201	1458	3	3	20.0			
988	Setto	1458	1201	1202	1459	3	3	20.0			
989	Setto	1459	1202	1203	1460	3	3	20.0			
990	Setto	1460	1203	1204	1461	3	3	20.0			
991	Setto	1461	1204	1205	1435	3	3	20.0			
992	Setto	1207	1208	1209	1206	3	3	20.0			
993	Setto	1210	1211	1208	1207	3	3	20.0			
994	Setto	1212	1213	1211	1210	3	3	20.0			
995	Setto	1214	1215	1213	1212	3	3	20.0			
996	Setto	1216	1217	1215	1214	3	3	20.0			
997	Setto	1218	1219	1217	1216	3	3	20.0			
998	Setto	1220	1221	1219	1218	3	3	20.0			
999	Setto	1222	1223	1221	1220	3	3	20.0			
1000	Setto	1208	1224	1225	1209	3	3	20.0			
1001	Setto	1211	1226	1224	1208	3	3	20.0			
1002	Setto	1213	1227	1226	1211	3	3	20.0			
1003	Setto	1215	1228	1227	1213	3	3	20.0			
1004	Setto	1217	1229	1228	1215	3	3	20.0			
1005	Setto	1219	1230	1229	1217	3	3	20.0			
1006	Setto	1221	1231	1230	1219	3	3	20.0			
1007	Setto	1223	1232	1231	1221	3	3	20.0			
1008	Setto	1224	1054	1053	1225	3	3	20.0			
1009	Setto	1226	1057	1054	1224	3	3	20.0			
1010	Setto	1227	1059	1057	1226	3	3	20.0			
1011	Setto	1228	1061	1059	1227	3	3	20.0			
1012	Setto	1229	1063	1061	1228	3	3	20.0			
1013	Setto	1230	1065	1063	1229	3	3	20.0			
1014	Setto	1231	1067	1065	1230	3	3	20.0			
1015	Setto	1232	1069	1067	1231	3	3	20.0			
1016	Setto	1245	1244	1241	1246	3	3	20.0			
1017	Setto	1248	1247	1244	1245	3	3	20.0			
1018	Setto	1250	1249	1247	1248	3	3	20.0			
1019	Setto	1252	1251	1249	1250	3	3	20.0			
1020	Setto	1254	1253	1251	1252	3	3	20.0			
1021	Setto	1256	1255	1253	1254	3	3	20.0			
1022	Setto	1258	1257	1255	1256	3	3	20.0			
1023	Setto	1260	1259	1257	1258	3	3	20.0			
1024	Setto	1261	1245	1246	1262	3	3	20.0			
1025	Setto	1263	1248	1245	1261	3	3	20.0			
1026	Setto	1264	1250	1248	1263	3	3	20.0			
1027	Setto	1265	1252	1250	1264	3	3	20.0			
1028	Setto	1266	1254	1252	1265	3	3	20.0			
1029	Setto	1267	1256	1254	1266	3	3	20.0			
1030	Setto	1268	1258	1256	1267	3	3	20.0			
1031	Setto	1269	1260	1258	1268	3	3	20.0			
1032	Setto	1270	1261	1262	1242	3	3	20.0			
1033	Setto	1271	1263	1261	1270	3	3	20.0			
1034	Setto	1272	1264	1263	1271	3	3	20.0			
1035	Setto	1273	1265	1264	1272	3	3	20.0			
1036	Setto	1274	1266	1265	1273	3	3	20.0			
1037	Setto	1275	1267	1266	1274	3	3	20.0			
1038	Setto	1276	1268	1267	1275	3	3	20.0			
1039	Setto	1243	1269	1268	1276	3	3	20.0			
1040	Setto	1278	1279	1280	1234	3	3	20.0			
1041	Setto	1281	1282	1279	1278	3	3	20.0			
1042	Setto	1283	1284	1282	1281	3	3	20.0			
1043	Setto	1285	1286	1284	1283	3	3	20.0			
1044	Setto	1287	1288	1286	1285	3	3	20.0			
1045	Setto	1289	1290	1288	1287	3	3	20.0			
1046	Setto	1291	1292	1290	1289	3	3	20.0			
1047	Setto	1293	1294	1292	1291	3	3	20.0			
1048	Setto	1279	1295	1296	1280	3	3	20.0			
1049	Setto	1282	1297	1295	1279	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1050	Setto	1284	1298	1297	1282	3	3	20.0			
1051	Setto	1286	1299	1298	1284	3	3	20.0			
1052	Setto	1288	1300	1299	1286	3	3	20.0			
1053	Setto	1290	1301	1300	1288	3	3	20.0			
1054	Setto	1292	1302	1301	1290	3	3	20.0			
1055	Setto	1294	1303	1302	1292	3	3	20.0			
1056	Setto	1295	1304	1305	1296	3	3	20.0			
1057	Setto	1297	1306	1304	1295	3	3	20.0			
1058	Setto	1298	1307	1306	1297	3	3	20.0			
1059	Setto	1299	1308	1307	1298	3	3	20.0			
1060	Setto	1300	1309	1308	1299	3	3	20.0			
1061	Setto	1301	1310	1309	1300	3	3	20.0			
1062	Setto	1302	1311	1310	1301	3	3	20.0			
1063	Setto	1303	1312	1311	1302	3	3	20.0			
1064	Setto	1304	1313	1314	1305	3	3	20.0			
1065	Setto	1306	1315	1313	1304	3	3	20.0			
1066	Setto	1307	1316	1315	1306	3	3	20.0			
1067	Setto	1308	1317	1316	1307	3	3	20.0			
1068	Setto	1309	1318	1317	1308	3	3	20.0			
1069	Setto	1310	1319	1318	1309	3	3	20.0			
1070	Setto	1311	1320	1319	1310	3	3	20.0			
1071	Setto	1312	1321	1320	1311	3	3	20.0			
1072	Setto	1313	1322	1323	1314	3	3	20.0			
1073	Setto	1315	1324	1322	1313	3	3	20.0			
1074	Setto	1316	1325	1324	1315	3	3	20.0			
1075	Setto	1317	1326	1325	1316	3	3	20.0			
1076	Setto	1318	1327	1326	1317	3	3	20.0			
1077	Setto	1319	1328	1327	1318	3	3	20.0			
1078	Setto	1320	1329	1328	1319	3	3	20.0			
1079	Setto	1321	1330	1329	1320	3	3	20.0			
1080	Setto	1322	1331	1332	1323	3	3	20.0			
1081	Setto	1324	1333	1331	1322	3	3	20.0			
1082	Setto	1325	1334	1333	1324	3	3	20.0			
1083	Setto	1326	1335	1334	1325	3	3	20.0			
1084	Setto	1327	1336	1335	1326	3	3	20.0			
1085	Setto	1328	1337	1336	1327	3	3	20.0			
1086	Setto	1329	1338	1337	1328	3	3	20.0			
1087	Setto	1330	1339	1338	1329	3	3	20.0			
1088	Setto	1331	1340	1341	1332	3	3	20.0			
1089	Setto	1333	1342	1340	1331	3	3	20.0			
1090	Setto	1334	1343	1342	1333	3	3	20.0			
1091	Setto	1335	1344	1343	1334	3	3	20.0			
1092	Setto	1336	1345	1344	1335	3	3	20.0			
1093	Setto	1337	1346	1345	1336	3	3	20.0			
1094	Setto	1338	1347	1346	1337	3	3	20.0			
1095	Setto	1339	1348	1347	1338	3	3	20.0			
1096	Setto	1340	1349	1233	1341	3	3	20.0			
1097	Setto	1342	1350	1349	1340	3	3	20.0			
1098	Setto	1343	1351	1350	1342	3	3	20.0			
1099	Setto	1344	1352	1351	1343	3	3	20.0			
1100	Setto	1345	1353	1352	1344	3	3	20.0			
1101	Setto	1346	1354	1353	1345	3	3	20.0			
1102	Setto	1347	1355	1354	1346	3	3	20.0			
1103	Setto	1348	1277	1355	1347	3	3	20.0			
1104	Setto	1357	1358	1235	1236	3	3	20.0			
1105	Setto	1359	1360	1358	1357	3	3	20.0			
1106	Setto	1361	1362	1360	1359	3	3	20.0			
1107	Setto	1363	1364	1362	1361	3	3	20.0			
1108	Setto	1365	1366	1364	1363	3	3	20.0			
1109	Setto	1367	1368	1366	1365	3	3	20.0			
1110	Setto	1369	1370	1368	1367	3	3	20.0			
1111	Setto	1371	1356	1370	1369	3	3	20.0			
1112	Setto	1373	1374	1237	1238	3	3	20.0			
1113	Setto	1375	1376	1374	1373	3	3	20.0			
1114	Setto	1377	1378	1376	1375	3	3	20.0			
1115	Setto	1379	1380	1378	1377	3	3	20.0			
1116	Setto	1381	1382	1380	1379	3	3	20.0			
1117	Setto	1383	1384	1382	1381	3	3	20.0			
1118	Setto	1385	1386	1384	1383	3	3	20.0			
1119	Setto	1387	1372	1386	1385	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1120	Setto	1389	1390	1391	1240	3	3	20.0			
1121	Setto	1392	1393	1390	1389	3	3	20.0			
1122	Setto	1394	1395	1393	1392	3	3	20.0			
1123	Setto	1396	1397	1395	1394	3	3	20.0			
1124	Setto	1398	1399	1397	1396	3	3	20.0			
1125	Setto	1400	1401	1399	1398	3	3	20.0			
1126	Setto	1402	1403	1401	1400	3	3	20.0			
1127	Setto	1404	1405	1403	1402	3	3	20.0			
1128	Setto	1390	1406	1407	1391	3	3	20.0			
1129	Setto	1393	1408	1406	1390	3	3	20.0			
1130	Setto	1395	1409	1408	1393	3	3	20.0			
1131	Setto	1397	1410	1409	1395	3	3	20.0			
1132	Setto	1399	1411	1410	1397	3	3	20.0			
1133	Setto	1401	1412	1411	1399	3	3	20.0			
1134	Setto	1403	1413	1412	1401	3	3	20.0			
1135	Setto	1405	1414	1413	1403	3	3	20.0			
1136	Setto	1406	1415	1416	1407	3	3	20.0			
1137	Setto	1408	1417	1415	1406	3	3	20.0			
1138	Setto	1409	1418	1417	1408	3	3	20.0			
1139	Setto	1410	1419	1418	1409	3	3	20.0			
1140	Setto	1411	1420	1419	1410	3	3	20.0			
1141	Setto	1412	1421	1420	1411	3	3	20.0			
1142	Setto	1413	1422	1421	1412	3	3	20.0			
1143	Setto	1414	1423	1422	1413	3	3	20.0			
1144	Setto	1415	1424	1239	1416	3	3	20.0			
1145	Setto	1417	1425	1424	1415	3	3	20.0			
1146	Setto	1418	1426	1425	1417	3	3	20.0			
1147	Setto	1419	1427	1426	1418	3	3	20.0			
1148	Setto	1420	1428	1427	1419	3	3	20.0			
1149	Setto	1421	1429	1428	1420	3	3	20.0			
1150	Setto	1422	1430	1429	1421	3	3	20.0			
1151	Setto	1423	1388	1430	1422	3	3	20.0			
1152	Setto	4	1437	1436	263	3	3	20.0			
1153	Setto	263	1436	1438	266	3	3	20.0			
1154	Setto	266	1438	1439	268	3	3	20.0			
1155	Setto	268	1439	1440	270	3	3	20.0			
1156	Setto	270	1440	1441	272	3	3	20.0			
1157	Setto	272	1441	1442	274	3	3	20.0			
1158	Setto	274	1442	1443	276	3	3	20.0			
1159	Setto	276	1443	1444	278	3	3	20.0			
1160	Setto	1437	1446	1445	1436	3	3	20.0			
1161	Setto	1436	1445	1447	1438	3	3	20.0			
1162	Setto	1438	1447	1448	1439	3	3	20.0			
1163	Setto	1439	1448	1449	1440	3	3	20.0			
1164	Setto	1440	1449	1450	1441	3	3	20.0			
1165	Setto	1441	1450	1451	1442	3	3	20.0			
1166	Setto	1442	1451	1452	1443	3	3	20.0			
1167	Setto	1443	1452	1453	1444	3	3	20.0			
1168	Setto	1446	1455	1454	1445	3	3	20.0			
1169	Setto	1445	1454	1456	1447	3	3	20.0			
1170	Setto	1447	1456	1457	1448	3	3	20.0			
1171	Setto	1448	1457	1458	1449	3	3	20.0			
1172	Setto	1449	1458	1459	1450	3	3	20.0			
1173	Setto	1450	1459	1460	1451	3	3	20.0			
1174	Setto	1451	1460	1461	1452	3	3	20.0			
1175	Setto	1452	1461	1435	1453	3	3	20.0			
1176	Setto	1431	1464	1463	1462	3	3	20.0			
1177	Setto	1462	1463	1466	1465	3	3	20.0			
1178	Setto	1465	1466	1468	1467	3	3	20.0			
1179	Setto	1467	1468	1470	1469	3	3	20.0			
1180	Setto	1469	1470	1472	1471	3	3	20.0			
1181	Setto	1471	1472	1474	1473	3	3	20.0			
1182	Setto	1473	1474	1476	1475	3	3	20.0			
1183	Setto	1475	1476	1478	1477	3	3	20.0			
1184	Setto	1464	1242	1270	1463	3	3	20.0			
1185	Setto	1463	1270	1271	1466	3	3	20.0			
1186	Setto	1466	1271	1272	1468	3	3	20.0			
1187	Setto	1468	1272	1273	1470	3	3	20.0			
1188	Setto	1470	1273	1274	1472	3	3	20.0			
1189	Setto	1472	1274	1275	1474	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1190	Setto	1474	1275	1276	1476	3	3	20.0			
1191	Setto	1476	1276	1243	1478	3	3	20.0			
1192	Setto	1433	1482	1481	1480	3	3	20.0			
1193	Setto	1480	1481	1484	1483	3	3	20.0			
1194	Setto	1483	1484	1486	1485	3	3	20.0			
1195	Setto	1485	1486	1488	1487	3	3	20.0			
1196	Setto	1487	1488	1490	1489	3	3	20.0			
1197	Setto	1489	1490	1492	1491	3	3	20.0			
1198	Setto	1491	1492	1494	1493	3	3	20.0			
1199	Setto	1493	1494	1496	1495	3	3	20.0			
1200	Setto	1482	1498	1497	1481	3	3	20.0			
1201	Setto	434	424	426	442	3	3	20.0			
1202	Setto	1484	1499	1500	1486	3	3	20.0			
1203	Setto	1486	1500	1501	1488	3	3	20.0			
1204	Setto	1488	1501	1502	1490	3	3	20.0			
1205	Setto	1490	1502	1503	1492	3	3	20.0			
1206	Setto	1492	1503	1504	1494	3	3	20.0			
1207	Setto	1494	1504	1505	1496	3	3	20.0			
1208	Setto	1498	1432	1506	1497	3	3	20.0			
1209	Setto	1497	1506	1507	1499	3	3	20.0			
1210	Setto	1499	1507	1508	1500	3	3	20.0			
1211	Setto	1500	1508	1509	1501	3	3	20.0			
1212	Setto	1501	1509	1510	1502	3	3	20.0			
1213	Setto	1502	1510	1511	1503	3	3	20.0			
1214	Setto	1503	1511	1512	1504	3	3	20.0			
1215	Setto	1504	1512	1479	1505	3	3	20.0			
1216	Setto	1515	1434	1513	1514	3	3	20.0			
1217	Setto	1514	1513	1516	1517	3	3	20.0			
1218	Setto	1517	1516	1518	1519	3	3	20.0			
1219	Setto	1519	1518	1520	1521	3	3	20.0			
1220	Setto	1521	1520	1522	1523	3	3	20.0			
1221	Setto	1523	1522	1524	1525	3	3	20.0			
1222	Setto	1525	1524	1526	1527	3	3	20.0			
1223	Setto	1527	1526	1528	1529	3	3	20.0			
1224	Setto	1531	1515	1514	1530	3	3	20.0			
1225	Setto	1530	1514	1517	1532	3	3	20.0			
1226	Setto	1532	1517	1519	1533	3	3	20.0			
1227	Setto	1533	1519	1521	1534	3	3	20.0			
1228	Setto	1534	1521	1523	1535	3	3	20.0			
1229	Setto	1535	1523	1525	1536	3	3	20.0			
1230	Setto	1536	1525	1527	1537	3	3	20.0			
1231	Setto	1537	1527	1529	1538	3	3	20.0			
1232	Setto	3	1531	1530	15	3	3	20.0			
1233	Setto	15	1530	1532	18	3	3	20.0			
1234	Setto	18	1532	1533	20	3	3	20.0			
1235	Setto	20	1533	1534	22	3	3	20.0			
1236	Setto	22	1534	1535	24	3	3	20.0			
1237	Setto	24	1535	1536	26	3	3	20.0			
1238	Setto	26	1536	1537	28	3	3	20.0			
1239	Setto	28	1537	1538	30	3	3	20.0			
1240	Setto	1539	1207	1206	1540	3	3	20.0			
1241	Setto	480	470	478	488	3	3	20.0			
1242	Setto	1542	1212	1210	1541	3	3	20.0			
1243	Setto	1543	1539	1540	1544	3	3	20.0			
1244	Setto	488	478	479	489	3	3	20.0			
1245	Setto	1546	1542	1541	1545	3	3	20.0			
1246	Setto	1547	1543	1544	1548	3	3	20.0			
1247	Setto	497	487	480	496	3	3	20.0			
1248	Setto	1550	1546	1545	1549	3	3	20.0			
1249	Setto	1551	1547	1548	1552	3	3	20.0			
1250	Setto	496	480	488	504	3	3	20.0			
1251	Setto	1554	1550	1549	1553	3	3	20.0			
1252	Setto	1555	1551	1552	1556	3	3	20.0			
1253	Setto	1557	1553	1551	1555	3	3	20.0			
1254	Setto	1558	1554	1553	1557	3	3	20.0			
1255	Setto	1559	1555	1556	1560	3	3	20.0			
1256	Setto	504	488	489	505	3	3	20.0			
1257	Setto	1562	1558	1557	1561	3	3	20.0			
1258	Setto	1563	1559	1560	1564	3	3	20.0			
1259	Setto	1522	497	496	1524	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1260	Setto	1566	1562	1561	1565	3	3	20.0			
1261	Setto	1567	1563	1564	1568	3	3	20.0			
1262	Setto	1524	496	504	1526	3	3	20.0			
1263	Setto	1570	1566	1565	1569	3	3	20.0			
1264	Setto	1349	1567	1568	1233	3	3	20.0			
1265	Setto	1526	504	505	1528	3	3	20.0			
1266	Setto	1351	1570	1569	1350	3	3	20.0			
1267	Setto	1571	1218	1216	1572	3	3	20.0			
1268	Setto	1573	1220	1218	1571	3	3	20.0			
1269	Setto	1574	1222	1220	1573	3	3	20.0			
1270	Setto	1575	1571	1572	1576	3	3	20.0			
1271	Setto	1577	1573	1571	1575	3	3	20.0			
1272	Setto	1578	1574	1573	1577	3	3	20.0			
1273	Setto	1579	1575	1576	1580	3	3	20.0			
1274	Setto	1581	1577	1575	1579	3	3	20.0			
1275	Setto	1582	1578	1577	1581	3	3	20.0			
1276	Setto	1583	1579	1580	1584	3	3	20.0			
1277	Setto	1585	1581	1579	1583	3	3	20.0			
1278	Setto	1586	1582	1581	1585	3	3	20.0			
1279	Setto	1587	1583	1584	1588	3	3	20.0			
1280	Setto	1589	1585	1583	1587	3	3	20.0			
1281	Setto	1590	1586	1585	1589	3	3	20.0			
1282	Setto	1591	1587	1588	1592	3	3	20.0			
1283	Setto	1593	1589	1587	1591	3	3	20.0			
1284	Setto	1594	1590	1589	1593	3	3	20.0			
1285	Setto	1595	1591	1592	1596	3	3	20.0			
1286	Setto	1597	1593	1591	1595	3	3	20.0			
1287	Setto	1598	1594	1593	1597	3	3	20.0			
1288	Setto	1599	1595	1596	1600	3	3	20.0			
1289	Setto	1601	1597	1595	1599	3	3	20.0			
1290	Setto	1602	1598	1597	1601	3	3	20.0			
1291	Setto	1354	1599	1600	1353	3	3	20.0			
1292	Setto	1355	1601	1599	1354	3	3	20.0			
1293	Setto	1277	1602	1601	1355	3	3	20.0			
1294	Setto	1603	1389	1240	1604	3	3	20.0			
1295	Setto	452	442	443	453	3	3	20.0			
1296	Setto	1606	1394	1392	1605	3	3	20.0			
1297	Setto	1607	1603	1604	1608	3	3	20.0			
1298	Setto	461	451	444	460	3	3	20.0			
1299	Setto	1610	1606	1605	1609	3	3	20.0			
1300	Setto	1611	1607	1608	1612	3	3	20.0			
1301	Setto	460	444	452	462	3	3	20.0			
1302	Setto	1614	1610	1609	1613	3	3	20.0			
1303	Setto	1615	1611	1612	1616	3	3	20.0			
1304	Setto	462	452	453	469	3	3	20.0			
1305	Setto	1657	4	263	1656	3	3	20.0			
1306	Setto	1656	263	266	1658	3	3	20.0			
1307	Setto	1658	266	268	269	3	3	20.0			
1308	Setto	1660	1657	1656	1659	3	3	20.0			
1309	Setto	1659	1656	1658	1661	3	3	20.0			
1310	Setto	1661	1658	269	283	3	3	20.0			
1311	Setto	1663	1660	1659	1662	3	3	20.0			
1312	Setto	1664	1661	283	292	3	3	20.0			
1313	Setto	1666	1663	1662	1665	3	3	20.0			
1314	Setto	1667	1664	292	301	3	3	20.0			
1315	Setto	1669	1666	1665	1668	3	3	20.0			
1316	Setto	1668	1665	1667	1670	3	3	20.0			
1317	Setto	1670	1667	301	310	3	3	20.0			
1318	Setto	1672	1669	1668	1671	3	3	20.0			
1319	Setto	1671	1668	1670	1673	3	3	20.0			
1320	Setto	1673	1670	310	319	3	3	20.0			
1321	Setto	1675	1672	1671	1674	3	3	20.0			
1322	Setto	1674	1671	1673	1676	3	3	20.0			
1323	Setto	1676	1673	319	328	3	3	20.0			
1324	Setto	1678	1675	1674	1677	3	3	20.0			
1325	Setto	1679	1676	328	337	3	3	20.0			
1326	Setto	1681	1678	1677	1680	3	3	20.0			
1327	Setto	1682	1679	337	346	3	3	20.0			
1328	Setto	1780	1681	1680	1930	3	3	20.0			
1329	Setto	1930	1680	1682	1683	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1330	Setto	1683	1682	346	355	3	3	20.0			
1331	Setto	1685	1780	1930	1684	3	3	20.0			
1332	Setto	1684	1930	1683	1686	3	3	20.0			
1333	Setto	1686	1683	355	364	3	3	20.0			
1334	Setto	1688	1685	1684	1687	3	3	20.0			
1335	Setto	1687	1684	1686	1689	3	3	20.0			
1336	Setto	1689	1686	364	373	3	3	20.0			
1337	Setto	1691	1688	1687	1690	3	3	20.0			
1338	Setto	1690	1687	1689	1692	3	3	20.0			
1339	Setto	1692	1689	373	382	3	3	20.0			
1340	Setto	1694	1691	1690	1693	3	3	20.0			
1341	Setto	1693	1690	1692	1695	3	3	20.0			
1342	Setto	1695	1692	382	391	3	3	20.0			
1343	Setto	1697	1694	1693	1696	3	3	20.0			
1344	Setto	1698	1695	391	400	3	3	20.0			
1345	Setto	1700	1697	1696	1699	3	3	20.0			
1346	Setto	1701	1698	400	409	3	3	20.0			
1347	Setto	1703	1700	1699	1702	3	3	20.0			
1348	Setto	1702	1699	1701	1704	3	3	20.0			
1349	Setto	1704	1701	409	418	3	3	20.0			
1350	Setto	1706	1703	1702	1705	3	3	20.0			
1351	Setto	1705	1702	1704	1707	3	3	20.0			
1352	Setto	1707	1704	418	427	3	3	20.0			
1353	Setto	1709	1706	1705	1708	3	3	20.0			
1354	Setto	1708	1705	1707	1710	3	3	20.0			
1355	Setto	1710	1707	427	436	3	3	20.0			
1356	Setto	1712	1709	1708	1711	3	3	20.0			
1357	Setto	1713	1710	436	445	3	3	20.0			
1358	Setto	1715	1712	1711	1714	3	3	20.0			
1359	Setto	1716	1713	445	454	3	3	20.0			
1360	Setto	1718	1715	1714	1717	3	3	20.0			
1361	Setto	1717	1714	1716	1719	3	3	20.0			
1362	Setto	1719	1716	454	463	3	3	20.0			
1363	Setto	1721	1718	1717	1720	3	3	20.0			
1364	Setto	1720	1717	1719	1722	3	3	20.0			
1365	Setto	1722	1719	463	472	3	3	20.0			
1366	Setto	1724	1721	1720	1723	3	3	20.0			
1367	Setto	1723	1720	1722	1725	3	3	20.0			
1368	Setto	1725	1722	472	481	3	3	20.0			
1369	Setto	1727	1724	1723	1726	3	3	20.0			
1370	Setto	1726	1723	1725	1728	3	3	20.0			
1371	Setto	1728	1725	481	490	3	3	20.0			
1372	Setto	1655	1727	1726	1729	3	3	20.0			
1373	Setto	1729	1726	1728	1730	3	3	20.0			
1374	Setto	1730	1728	490	498	3	3	20.0			
1375	Setto	1654	1655	1729	1731	3	3	20.0			
1376	Setto	1763	1764	1932	1931	3	3	20.0			
1377	Setto	1764	1765	1933	1932	3	3	20.0			
1378	Setto	1765	1766	1934	1933	3	3	20.0			
1379	Setto	1766	1767	1935	1934	3	3	20.0			
1380	Setto	1767	1768	1936	1935	3	3	20.0			
1381	Setto	1768	1769	1937	1936	3	3	20.0			
1382	Setto	1769	1770	1938	1937	3	3	20.0			
1383	Setto	1770	1771	1939	1938	3	3	20.0			
1384	Setto	1771	1772	1940	1939	3	3	20.0			
1385	Setto	1772	1773	1941	1940	3	3	20.0			
1386	Setto	1773	1774	1942	1941	3	3	20.0			
1387	Setto	1774	1775	1943	1942	3	3	20.0			
1388	Setto	1775	1776	1944	1943	3	3	20.0			
1389	Setto	1776	1777	1945	1944	3	3	20.0			
1390	Setto	1777	1778	1946	1945	3	3	20.0			
1391	Setto	1778	1779	1947	1946	3	3	20.0			
1392	Setto	1779	1781	1948	1947	3	3	20.0			
1393	Setto	1781	1782	1949	1948	3	3	20.0			
1394	Setto	1782	1783	1950	1949	3	3	20.0			
1395	Setto	1783	1784	1951	1950	3	3	20.0			
1396	Setto	1784	1785	1952	1951	3	3	20.0			
1397	Setto	1785	1786	1953	1952	3	3	20.0			
1398	Setto	1786	1787	1954	1953	3	3	20.0			
1399	Setto	1787	1788	1955	1954	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1400	Setto	1788	1789	1956	1955	3	3	20.0			
1401	Setto	1789	1790	1957	1956	3	3	20.0			
1402	Setto	1790	1791	1958	1957	3	3	20.0			
1403	Setto	1791	1792	1959	1958	3	3	20.0			
1404	Setto	1792	1793	1960	1959	3	3	20.0			
1405	Setto	1793	1794	1961	1960	3	3	20.0			
1406	Setto	1794	1795	1962	1961	3	3	20.0			
1407	Setto	1795	1796	1963	1962	3	3	20.0			
1408	Setto	1796	1797	1964	1963	3	3	20.0			
1409	Setto	1797	1798	1965	1964	3	3	20.0			
1410	Setto	1798	1799	1966	1965	3	3	20.0			
1411	Setto	1799	1800	1967	1966	3	3	20.0			
1412	Setto	1800	1801	1968	1967	3	3	20.0			
1413	Setto	1801	1802	1969	1968	3	3	20.0			
1414	Setto	1802	1803	1970	1969	3	3	20.0			
1415	Setto	1803	1804	1971	1970	3	3	20.0			
1416	Setto	1804	1805	1972	1971	3	3	20.0			
1417	Setto	1805	1806	1973	1972	3	3	20.0			
1418	Setto	1806	1807	1974	1973	3	3	20.0			
1419	Setto	1807	1808	1975	1974	3	3	20.0			
1420	Setto	1808	1809	1976	1975	3	3	20.0			
1421	Setto	1809	1810	1977	1976	3	3	20.0			
1422	Setto	1810	1811	1978	1977	3	3	20.0			
1423	Setto	1812	1813	1980	1979	3	3	20.0			
1424	Setto	1813	1814	1981	1980	3	3	20.0			
1425	Setto	1814	1815	1982	1981	3	3	20.0			
1426	Setto	1815	1816	1983	1982	3	3	20.0			
1427	Setto	1816	1817	1984	1983	3	3	20.0			
1428	Setto	1817	1818	1985	1984	3	3	20.0			
1429	Setto	1818	1819	1986	1985	3	3	20.0			
1430	Setto	1819	1820	1987	1986	3	3	20.0			
1431	Setto	1820	1821	1988	1987	3	3	20.0			
1432	Setto	1821	1822	1989	1988	3	3	20.0			
1433	Setto	1822	1823	1990	1989	3	3	20.0			
1434	Setto	1823	1824	1991	1990	3	3	20.0			
1435	Setto	1824	1825	1992	1991	3	3	20.0			
1436	Setto	1825	1826	1993	1992	3	3	20.0			
1437	Setto	1826	1827	1994	1993	3	3	20.0			
1438	Setto	1827	1828	1995	1994	3	3	20.0			
1439	Setto	1828	1829	1996	1995	3	3	20.0			
1440	Setto	1829	1830	1997	1996	3	3	20.0			
1441	Setto	1830	1831	1998	1997	3	3	20.0			
1442	Setto	1831	1832	1999	1998	3	3	20.0			
1443	Setto	1832	1833	2000	1999	3	3	20.0			
1444	Setto	1833	1834	2001	2000	3	3	20.0			
1445	Setto	1834	1835	2002	2001	3	3	20.0			
1446	Setto	1835	1836	2003	2002	3	3	20.0			
1447	Setto	1836	1837	2004	2003	3	3	20.0			
1448	Setto	1837	1838	2005	2004	3	3	20.0			
1449	Setto	1838	1839	2006	2005	3	3	20.0			
1450	Setto	1323	1332	1846	1847	3	3	20.0			
1451	Setto	1314	1323	1847	1852	3	3	20.0			
1452	Setto	1305	1314	1852	1853	3	3	20.0			
1453	Setto	1848	1841	2008	2013	3	3	20.0			
1454	Setto	1841	1842	2009	2008	3	3	20.0			
1455	Setto	1839	1849	2014	2006	3	2	20.0			
1456	Setto	1849	1850	2015	2014	3	2	20.0			
1457	Setto	1850	1851	2016	2015	3	2	20.0			
1458	Setto	1620	1616	2020	2021	3	3	20.0			
1459	Setto	1624	1620	2021	2022	3	3	20.0			
1460	Setto	1628	1624	2022	2024	3	3	20.0			
1461	Setto	1632	1628	2024	1864	3	3	20.0			
1462	Setto	1241	1632	1864	1863	3	3	20.0			
1463	Setto	1246	1241	1863	1866	3	3	20.0			
1464	Setto	1262	1246	1866	1867	3	3	20.0			
1465	Setto	1242	1262	1867	2009	3	3	20.0			
1466	Setto	1236	1235	1857	1858	3	3	20.0			
1467	Setto	1868	1869	2026	2025	3	2	20.0			
1468	Setto	1869	1870	2027	2026	3	2	20.0			
1469	Setto	1870	1845	2010	2027	3	2	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1470	Setto	2029	2028	1871	1872	3	3	20.0			
1471	Setto	2030	2029	1872	1873	3	3	20.0			
1472	Setto	2031	2030	1873	1874	3	3	20.0			
1473	Setto	2032	2031	1874	1875	3	3	20.0			
1474	Setto	2033	2032	1875	1876	3	3	20.0			
1475	Setto	2034	2033	1876	1877	3	3	20.0			
1476	Setto	2035	2034	1877	1878	3	3	20.0			
1477	Setto	2036	2035	1878	1879	3	3	20.0			
1478	Setto	2037	2036	1879	1880	3	3	20.0			
1479	Setto	1883	1882	2039	2040	3	3	25.0			
1480	Setto	1881	1883	2040	2038	3	3	25.0			
1481	Setto	1886	1871	2028	2043	3	3	25.0			
1482	Setto	1884	1886	2043	2041	3	3	25.0			
1483	Setto	1888	1880	2037	2045	3	3	25.0			
1484	Setto	1887	1888	2045	2044	3	3	25.0			
1485	Setto	1885	1865	2023	2042	3	3	25.0			
1486	Setto	1889	1885	2042	2046	3	3	25.0			
1487	Setto	2047	1978	1811	1890	3	3	20.0			
1488	Setto	2048	2047	1890	1891	3	3	20.0			
1489	Setto	2049	2048	1891	1892	3	3	20.0			
1490	Setto	2050	2049	1892	1893	3	3	20.0			
1491	Setto	2051	2050	1893	1894	3	3	20.0			
1492	Setto	2052	2051	1894	1895	3	3	20.0			
1493	Setto	2053	2052	1895	1896	3	3	20.0			
1494	Setto	2054	2053	1896	1897	3	3	20.0			
1495	Setto	2055	2054	1897	1898	3	3	20.0			
1496	Setto	2056	2055	1898	1899	3	3	20.0			
1497	Setto	2057	2056	1899	1900	3	3	20.0			
1498	Setto	1843	2057	1900	1901	3	3	20.0			
1499	Setto	1844	1843	1901	1902	3	3	20.0			
1500	Setto	1846	1844	1902	1903	3	3	20.0			
1501	Setto	1847	1846	1903	1904	3	3	20.0			
1502	Setto	1852	1847	1904	1905	3	3	20.0			
1503	Setto	1853	1852	1905	1906	3	3	20.0			
1504	Setto	1854	1853	1906	1907	3	3	20.0			
1505	Setto	1855	1854	1907	1908	3	3	20.0			
1506	Setto	1856	1855	1908	1909	3	3	20.0			
1507	Setto	2021	2020	1926	1927	3	3	20.0			
1508	Setto	2022	2021	1927	1928	3	3	20.0			
1509	Setto	2024	2022	1928	1929	3	3	20.0			
1510	Setto	1864	2024	1929	1917	3	3	20.0			
1511	Setto	1863	1864	1917	1916	3	3	20.0			
1512	Setto	1866	1863	1916	1918	3	3	20.0			
1513	Setto	1867	1866	1918	1919	3	3	20.0			
1514	Setto	2009	1867	1919	1842	3	3	20.0			
1515	Setto	1858	1857	1910	1911	3	3	20.0			
1516	Setto	1860	1859	1912	1913	3	3	20.0			
1517	Setto	1862	2007	1920	1915	3	3	20.0			
1518	Setto	2007	2011	1921	1920	3	3	20.0			
1519	Setto	2011	2012	1922	1921	3	3	20.0			
1520	Setto	2012	1861	1914	1922	3	3	20.0			
1521	Setto	2017	1862	1915	1923	3	3	20.0			
1522	Setto	2018	2017	1923	1924	3	3	20.0			
1523	Setto	2019	2018	1924	1925	3	3	20.0			
1524	Setto	2020	2019	1925	1926	3	3	20.0			
1525	Setto	1931	1932	1655	1654	3	3	20.0			
1526	Setto	1932	1933	1727	1655	3	3	20.0			
1527	Setto	1933	1934	1724	1727	3	3	20.0			
1528	Setto	1934	1935	1721	1724	3	3	20.0			
1529	Setto	1935	1936	1718	1721	3	3	20.0			
1530	Setto	1936	1937	1715	1718	3	3	20.0			
1531	Setto	1937	1938	1712	1715	3	3	20.0			
1532	Setto	1938	1939	1709	1712	3	3	20.0			
1533	Setto	1939	1940	1706	1709	3	3	20.0			
1534	Setto	1940	1941	1703	1706	3	3	20.0			
1535	Setto	1941	1942	1700	1703	3	3	20.0			
1536	Setto	1942	1943	1697	1700	3	3	20.0			
1537	Setto	1943	1944	1694	1697	3	3	20.0			
1538	Setto	1944	1945	1691	1694	3	3	20.0			
1539	Setto	1945	1946	1688	1691	3	3	20.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1540	Setto	1946	1947	1685	1688	3	3	20.0			
1541	Setto	1947	1948	1780	1685	3	3	20.0			
1542	Setto	1948	1949	1681	1780	3	3	20.0			
1543	Setto	1949	1950	1678	1681	3	3	20.0			
1544	Setto	1950	1951	1675	1678	3	3	20.0			
1545	Setto	1951	1952	1672	1675	3	3	20.0			
1546	Setto	1952	1953	1669	1672	3	3	20.0			
1547	Setto	1953	1954	1666	1669	3	3	20.0			
1548	Setto	1954	1955	1663	1666	3	3	20.0			
1549	Setto	1955	1956	1660	1663	3	3	20.0			
1550	Setto	1956	1957	1657	1660	3	3	20.0			
1551	Setto	1957	1958	4	1657	3	3	20.0			
1552	Setto	1958	1959	1437	4	3	3	20.0			
1553	Setto	1959	1960	1446	1437	3	3	20.0			
1554	Setto	1960	1961	1455	1446	3	3	20.0			
1555	Setto	1961	1962	1198	1455	3	3	20.0			
1556	Setto	1962	1963	1189	1198	3	3	20.0			
1557	Setto	1963	1964	1180	1189	3	3	20.0			
1558	Setto	1964	1965	1171	1180	3	3	20.0			
1559	Setto	1965	1966	1162	1171	3	3	20.0			
1560	Setto	1966	1967	1153	1162	3	3	20.0			
1561	Setto	1967	1968	1144	1153	3	3	20.0			
1562	Setto	1968	1969	1135	1144	3	3	20.0			
1563	Setto	1969	1970	1126	1135	3	3	20.0			
1564	Setto	1970	1971	1117	1126	3	3	20.0			
1565	Setto	1971	1972	1108	1117	3	3	20.0			
1566	Setto	1972	1973	1099	1108	3	3	20.0			
1567	Setto	1973	1974	1090	1099	3	3	20.0			
1568	Setto	1974	1975	1081	1090	3	3	20.0			
1569	Setto	1975	1976	1072	1081	3	3	20.0			
1570	Setto	1976	1977	1056	1072	3	3	20.0			
1571	Setto	1977	1978	1053	1056	3	3	20.0			
1572	Setto	1979	1980	5	1	3	3	20.0			
1573	Setto	1980	1981	240	5	3	3	20.0			
1574	Setto	1981	1982	231	240	3	3	20.0			
1575	Setto	1982	1983	222	231	3	3	20.0			
1576	Setto	1983	1984	213	222	3	3	20.0			
1577	Setto	1984	1985	204	213	3	3	20.0			
1578	Setto	1985	1986	195	204	3	3	20.0			
1579	Setto	1986	1987	186	195	3	3	20.0			
1580	Setto	1987	1988	177	186	3	3	20.0			
1581	Setto	1988	1989	168	177	3	3	20.0			
1582	Setto	1989	1990	159	168	3	3	20.0			
1583	Setto	1990	1991	150	159	3	3	20.0			
1584	Setto	1991	1992	141	150	3	3	20.0			
1585	Setto	1992	1993	132	141	3	3	20.0			
1586	Setto	1993	1994	123	132	3	3	20.0			
1587	Setto	1994	1995	114	123	3	3	20.0			
1588	Setto	1995	1996	105	114	3	3	20.0			
1589	Setto	1996	1997	96	105	3	3	20.0			
1590	Setto	1997	1998	87	96	3	3	20.0			
1591	Setto	1998	1999	78	87	3	3	20.0			
1592	Setto	1999	2000	69	78	3	3	20.0			
1593	Setto	2000	2001	60	69	3	3	20.0			
1594	Setto	2001	2002	51	60	3	3	20.0			
1595	Setto	2002	2003	42	51	3	3	20.0			
1596	Setto	2003	2004	33	42	3	3	20.0			
1597	Setto	2004	2005	17	33	3	3	20.0			
1598	Setto	2005	2006	3	17	3	3	20.0			
1599	Setto	1296	1305	1853	1854	3	3	20.0			
1600	Setto	1280	1296	1854	1855	3	3	20.0			
1601	Setto	1234	1280	1855	1856	3	3	20.0			
1602	Setto	2013	2008	1464	1431	3	3	20.0			
1603	Setto	2008	2009	1242	1464	3	3	20.0			
1604	Setto	2006	2014	1531	3	3	2	20.0			
1605	Setto	2014	2015	1515	1531	3	2	20.0			
1606	Setto	2015	2016	1434	1515	3	2	20.0			
1607	Setto	1238	1237	1859	1860	3	3	20.0			
1608	Setto	1240	1391	2007	1862	3	3	20.0			
1609	Setto	1391	1407	2011	2007	3	3	20.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1610	Setto	1407	1416	2012	2011	3	3	20.0			
1611	Setto	1416	1239	1861	2012	3	3	20.0			
1612	Setto	1604	1240	1862	2017	3	3	20.0			
1613	Setto	1608	1604	2017	2018	3	3	20.0			
1614	Setto	1612	1608	2018	2019	3	3	20.0			
1615	Setto	1616	1612	2019	2020	3	3	20.0			
1616	Setto	2025	2026	1482	1433	3	2	20.0			
1617	Setto	2026	2027	1498	1482	3	2	20.0			
1618	Setto	2027	2010	1432	1498	3	2	20.0			
1619	Setto	974	844	2028	2029	3	3	20.0			
1620	Setto	964	974	2029	2030	3	3	20.0			
1621	Setto	954	964	2030	2031	3	3	20.0			
1622	Setto	944	954	2031	2032	3	3	20.0			
1623	Setto	934	944	2032	2033	3	3	20.0			
1624	Setto	924	934	2033	2034	3	3	20.0			
1625	Setto	914	924	2034	2035	3	3	20.0			
1626	Setto	904	914	2035	2036	3	3	20.0			
1627	Setto	813	904	2036	2037	3	3	20.0			
1628	Setto	2040	2039	875	884	3	3	25.0			
1629	Setto	2038	2040	884	10	3	3	25.0			
1630	Setto	2043	2028	844	853	3	3	25.0			
1631	Setto	2041	2043	853	9	3	3	25.0			
1632	Setto	2045	2037	813	822	3	3	25.0			
1633	Setto	2044	2045	822	8	3	3	25.0			
1634	Setto	2042	2023	782	791	3	3	25.0			
1635	Setto	2046	2042	791	7	3	3	25.0			
1636	Setto	1225	1053	1978	2047	3	3	20.0			
1637	Setto	1209	1225	2047	2048	3	3	20.0			
1638	Setto	1206	1209	2048	2049	3	3	20.0			
1639	Setto	1540	1206	2049	2050	3	3	20.0			
1640	Setto	1544	1540	2050	2051	3	3	20.0			
1641	Setto	1548	1544	2051	2052	3	3	20.0			
1642	Setto	1552	1548	2052	2053	3	3	20.0			
1643	Setto	1556	1552	2053	2054	3	3	20.0			
1644	Setto	1560	1556	2054	2055	3	3	20.0			
1645	Setto	1564	1560	2055	2056	3	3	20.0			
1646	Setto	1568	1564	2056	2057	3	3	20.0			
1647	Setto	1233	1568	2057	1843	3	3	20.0			
1648	Setto	1341	1233	1843	1844	3	3	20.0			
1649	Setto	1332	1341	1844	1846	3	3	20.0			

MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello. Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.

L'elemento solaio è utilizzato in primo luogo per la modellazione dei carichi agenti sugli elementi strutturali. In secondo luogo può essere utilizzato per la corretta ripartizione delle forze orizzontali agenti nel proprio piano.

L'elemento balcone è derivato dall'elemento solaio.

I carichi agenti sugli elementi solaio, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori). La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

L'elemento pannello è utilizzato solo per l'applicazione dei carichi, quali pesi delle tamponature o spinte dovute al vento o terre. In questo caso i carichi sono applicati in analogia agli altri elementi strutturali (si veda il cap. SCHEMATIZZAZIONE DEI CASI DI CARICO).

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico

Variab.	Carico variabile generico
Var. rid.	Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...)
Neve	Carico di neve
G1k	carico permanente (comprensivo del peso proprio)
G2k	carico permanente non strutturale e non compiutamente definito
Qk	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore raro
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore frequente
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore quasi permanente
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: per la definizione delle masse sismiche
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione. In particolare per ogni elemento viene indicato in tabella:

Elem	numero dell'elemento
Tipo	codice di comportamento
	S elemento utilizzato solo per scarico
	C elemento utilizzato per scarico e per modellazione piano rigido
	P elemento utilizzato come pannello
	M scarico monodirezionale
	B scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
Gk	carico permanente solaio (comprensivo del peso proprio)
Qk	carico variabile solaio
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

La progettazione viene eseguita con il metodo degli stati limite. I simboli utilizzati in tabella assumono il seguente significato:

Elem.	numero identificativo dell'elemento
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
Pos.	Ascissa del punto di verifica
F ist, F infi	Frecce istantanee e a tempo infinito
Momento	Momento flettente
Taglio	Sollecitazione di taglio
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup.	Area di armatura longitudinale posta all'estradosso della trave
AfV	Area dell'armatura atta ad assorbire le azioni di taglio
Beff	Base della sezione di cls per l'assorbimento del taglio

x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto S_d/S_u con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
Verif.V	rapporto S_d/S_u con sollecitazioni taglianti proporzionali: valore minore o uguale a 1 per verifica positiva
rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rFfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni freq. [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi perm. [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
rFyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk 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]

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 17.01.2018 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica confronta i momenti sollecitanti indotti dal sisma con i momenti resistenti, secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinetismo a seguito della formazione di tre cerniere plastiche sulla tamponatura (rif. Ufficio di Vigilanza sulle Costruzioni, Provincia di Terni).

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):

- **Tamponatura Antiespulsione ordinaria Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova. Utilizzabile per il materiale [52].
- **Tamponatura Antiespulsione armata Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova. Utilizzabile per il materiale [53].

La verifica è stata calibrata sulla base di prove sperimentali sul sistema di Tamponatura Antiespulsione anche in presenza di aperture.

(rif. Rapporti di Prova redatti dal Dipartimento ICEA - Università degli Studi di Padova di test sperimentali condotti sul sistema Tamponatura Antiespulsione di Cis Edil)

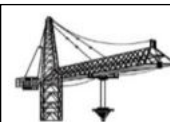
In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	Numero identificativo dell'elemento
Stato	Codice di verifica

Ver. c.c.	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. c.cin.	Verifica nell'ipotesi di cinematismo con formazione di cerniere plastiche in appoggio e mezzzeria
Ver. CIS	Rapporto pa/pr (valore minore o uguale a 1 per verifica positiva)
Z	Quota del baricentro dell'elemento
T1	Periodo proprio dell'edificio nella direzione di interesse (ortogonale al pannello)
Ta	Periodo proprio della parete
Sa	Accelerazione massima, adimensionalizzata allo SLV
pa	Pressione sulla parete causata dall'azione sismica
pr	Pressione resistente del meccanismo ad arco
Drift	Spostamento relativo interpiano allo SLV valutato secondo il D.M. 14.01.2018 - § 7.3.3.3
Beta a	Coef. riduttivo per tener conto del danneggiamento del piano dipendente dallo spostamento, ottenuto sperimentalmente

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/cm2	daN/cm2	daN/cm2							
1	Neve	2.15e-02	4.50e-03	1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
2	Neve	7.10e-02	3.30e-02	1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
3	Neve	5.75e-02		1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
4	Neve	5.55e-02		1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
5	Variab.	4.50e-02	5.05e-02	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	13	537	536	591	535
									534	600	533	532	1052
									1004				
2	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	532	568	531	530	618
									528	527	622	526	1038
									1052				
3	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	526	525	594	524	523
									566	522	521	538	1003
									1038				
4	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1004	1052	1051	1002	
5	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1052	1038	1037	1051	
6	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1038	1003	1001	1037	
7	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1002	1051	1050	983	
8	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1051	1037	1036	1050	
9	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1037	1001	809	1036	
10	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	983	1050	1049	993	
11	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1050	1036	1035	1049	
12	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1036	809	989	1035	
13	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	993	1049	1048	994	
14	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1049	1035	1034	1048	
15	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1035	989	990	1034	
16	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	994	1048	1047	984	
17	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1048	1034	1033	1047	
18	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1034	990	840	1033	
19	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	987	1044	1043	995	
20	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1044	1030	1029	1043	
21	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1030	871	991	1029	
22	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	995	1043	1042	996	
23	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1043	1029	1028	1042	
24	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1029	991	992	1028	
25	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	996	1042	1041	988	
26	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1042	1028	1027	1041	
27	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1028	992	902	1027	
28	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	988	1041	1040	998	
29	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1041	1027	1026	1040	



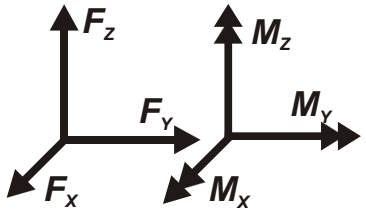
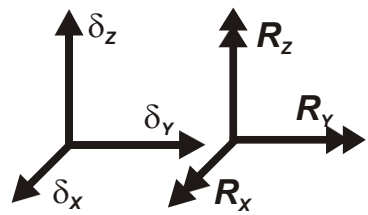
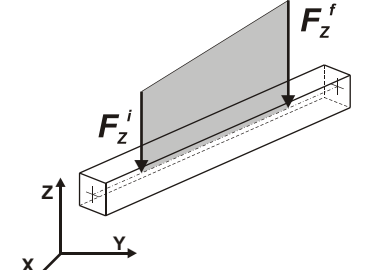
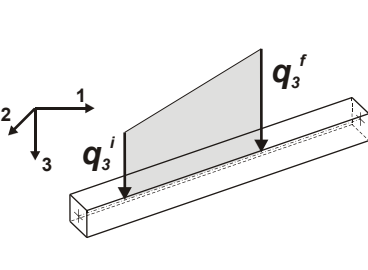
Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
30	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1027	902	997	1026	
31	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	998	1040	1039	1000	
32	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1040	1026	1025	1039	
33	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1026	997	999	1025	
34	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	984	1047	1046	985	
35	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1047	1033	1032	1046	
36	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	985	1046	1045	986	
37	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1046	1032	1031	1045	
38	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	986	1045	1044	987	
39	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1045	1031	1030	1044	
40	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1033	840	912	922	932
									1032				
41	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1032	932	942	952	962
									1031				
42	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1031	962	972	982	871
									1030				
43	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1000	1039	667	668	735
									669	670	726	671	672
									14				
44	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1039	1025	661	757	662
									663	753	665	666	703
									667				
45	SM	1	m=129	1.0	0.0	2.15e-02	4.50e-03	1.20e-02	1025	999	673	656	657
									701	658	659	729	660
									661				
46	CM	3	m=3	15.0	0.0	5.75e-02		1.20e-02	538	520	519	11	1733
									807	808	809		
47	CM	3	m=3	15.0	0.0	5.75e-02		1.20e-02	809	808	807	1733	1734
									838	839	840		
48	CM	3	m=3	15.0	0.0	5.75e-02		1.20e-02	840	839	838	1734	1735
									869	870	871		
49	CM	3	m=3	15.0	0.0	5.75e-02		1.20e-02	871	870	869	1735	1736
									900	901	902		
50	CM	3	m=3	15.0	0.0	5.75e-02		1.20e-02	902	901	900	1736	12
									654	655	673		
51	CM	2	m=3	5.0	90.0	7.10e-02	3.30e-02	1.20e-02	278	1444	1453	1435	1205
									1196	1187	1178	1169	1160
									1151	1142	1133	1124	1115
									1106	1097	1088	1079	1070
									1069	1232	1223	1222	1574
									1578	1582	1586	1590	1594
									1598	1602	1277	1348	1339
									1330	1321	1312	1303	1294
									1293	309	325	1356	1020
									1022	1024	780	811	842
									873				
52	CM	2	m=3	5.0	90.0	7.10e-02	3.30e-02	1.20e-02	1020	1356	1371	361	371
									381	1372	1387	335	345
									1388	1423	1414	1405	1404
									1638	1642	1646	1650	2
									267	289	299	1259	1260
									1269	1243	1478	1477	397
									407	1479	1505	1496	1495
									417	433	443	453	469
									479	489	505	1528	1529
									1538	30	1006	1008	1010
									1012	1014	1016	1018	
53	CM	4	m=3	15.0	90.0	5.55e-02		1.20e-02	1750	1752	1748	1744	1740
									1754	1756	1758	1760	1762
									1276	1268	1258	1257	298
									265	1653	1649	1645	1641
									1637	1402	1403	1413	1422
									1430	344	334	1385	1386
									380	370	354	1369	1370
									318	308	1291	1292	1302
									1311	1320	1329	1338	1347
									1355	1601	1597	1593	1589
									1585	1581	1577	1573	1220
									1221	1738	1742	1746	
54	CM	4	m=3	15.0	90.0	5.55e-02		1.20e-02	1750	2058	2059	1752	

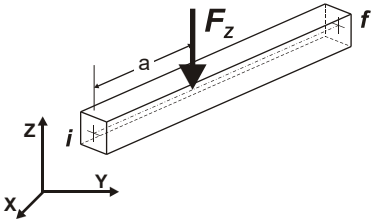
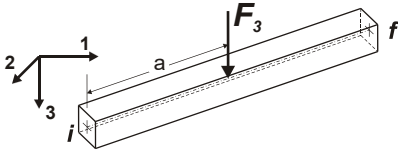
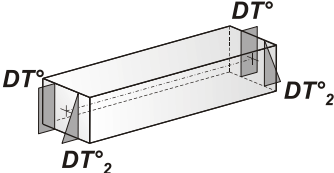
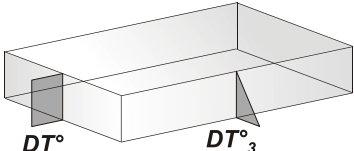
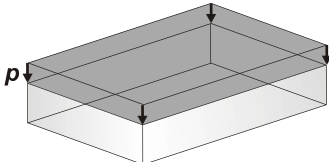
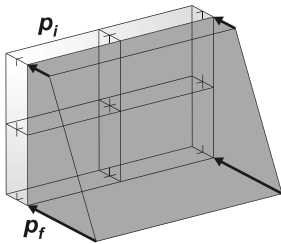
Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
55	CM	5	m=3	10.0	90.0	4.50e-02	5.05e-02	3.00e-02	1827	2096	2097	2098	2099
									2100	2101	2102	2103	2104
									2105	2106	2107	2108	2109
									2110	2111	2112	2113	1778
									1779	1781	1782	1783	1784
									1785	1786	1787	1788	1789
									1790	1791	2077	2076	2075
									2074	2073	2072	2071	2070
									2069	2068	2067	2066	2065
									2064	2063	2062	2061	2060
									1839	1838	1837	1836	1835
									1834	1833	1832	1831	1830
									1829	1828			
56	CM	5	m=3	10.0	90.0	4.50e-02	5.05e-02	3.00e-02	1827	1826	1825	1824	1823
									1822	1821	1820	1819	1818
									1817	1816	1815	2114	2115
									2116	1865	2117	2118	2119
									1880	1879	1878	1877	1876
									1875	1874	1873	1872	1871
									2120	2121	2122	1882	2123
									2124	2125	1766	1767	1768
									1769	1770	1771	1772	1773
									1774	1775	1776	1777	1778
									2113	2112	2111	2110	2109
									2108	2107	2106	2105	2104
									2103	2102	2101	2100	2099
									2098	2097	2096		
57	CM	5	m=3	10.0	90.0	4.50e-02	5.05e-02	3.00e-02	1840	1851	1850	1849	1839
									2060	2061	2062	2063	2064
									2065	2066	2067	2068	2069
									2070	2071	2072	2073	2074
									2075	2076	2077	1791	1792
									1793	1794	1795	1796	1797
									1798	1799	1800	1801	2095
									2094	2093	2092	2091	2090
									2089	2088	2087	2086	2085
									2084	2083	2082	2081	2080
									2079	2078			
58	CM	5	m=3	10.0	90.0	4.50e-02	5.05e-02	3.00e-02	1842	1841	1848	1845	1870
									1869	1868	1840	2078	2079
									2080	2081	2082	2083	2084
									2085	2086	2087	2088	2089
									2090	2091	2092	2093	2094
									2095	1801	1802	1803	1804
									1805	1806	1807	1808	1809
									1810	1811	1890	1891	1892
									1893	1894	1895	1896	1897
									1898	1899	1900	1901	1902
									1903	1904	1905	1906	1907
									1908	1909	1910	1911	1912
									1913	1914	1922	1921	1920
									1915	1923	1924	1925	1926
									1927	1928	1929	1917	1916
									1918	1919			

MODELLAZIONE DELLE 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)

 Carico concentrato nodale	 Spostamento impresso
 Carico distribuito globale	 Carico distribuito locale

 Carico concentrato globale	 Carico concentrato locale
 Carico termico 2D	 Carico termico 3D
 Carico pressione uniforme	 Carico pressione variabile

Tipo carico distribuito globale su trave

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
		cm	daN/cm	daN/cm	daN/cm	daN	daN	daN
1	Vento +y-DG:Fyi=1.30 Fyf=1.30	0.0	0.0	1.30	0.0	0.0	0.0	0.0
		0.0	0.0	1.30	0.0	0.0	0.0	0.0
2	Vento -y-DG:Fyi=-0.65 Fyf=-0.65	0.0	0.0	-0.65	0.0	0.0	0.0	0.0
		0.0	0.0	-0.65	0.0	0.0	0.0	0.0

Tipo carico di pressione uniforme su piastra

Id	Tipo	pressione
		daN/cm ²
7	QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03	3.20e-03
8	QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03	3.20e-03

SCHEMATIZZAZIONE DEI 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.

CARICHI STATICI

SOLAIO PIANO TERRA

Co d	Descrizione	Spessore [cm]	Peso al mc [Kg/mc]	Peso al mq [Kg/mq]	Carico [Kg/mq]
1	Pavimento	1,5		40	40
2	Sottofondo	13,0	2.000		260
3	Isolamento	12,0	40		5
4	Cappa strutturale	6,0	2.500		150

5	Pannelli alveolari	16,0		300	300
6	tavolati			200	200

SPESSORE TOTALE 48,5

TOTALE PERMANENTI STRUTTURALI E DEFINITI 450,0

TOTALE PERMANENTI PORTATI NON DEFINITI 505,0

CARICO ACCIDENTALE MENSA 300,0

TOTALE CARICO	1.255,0 Kg/mq
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COPERTURA LEGNO

Co d	Descrizione	Spessore [cm]	Peso al mc [Kg/mc]	Peso al mq [Kg/mq]	Carico [Kg/mq]
1	Lamiera grecata	0,5		40	40
2	Isolamento	10,0	40		5
3	Isolamento lana di roccia	10,0	120		15
4	Impermeabilizzazione	0,5		15	15
5	assito legno	5,0	800		40
6	Struttura legno			100	100
7	Impianti			30	30
8	Fotovoltaico			15	15

SPESSORE TOTALE 26,0

TOTALE PERMANENTI STRUTTURALI E DEFINITI 215,0

TOTALE PERMANENTI PORTATI NON DEFINITI 45,0

CARICO ACCIDENTALE NEVE 120,0

TOTALE CARICO	380,0 Kg/mq
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COPERTURA PREDALLES

Co d	Descrizione	Spessore [cm]	Peso al mc [Kg/mc]	Peso al mq [Kg/mq]	Carico [Kg/mq]
1	Impermeabilizzazione	0,5		15	15
2	Strato pendenza (medio 10 cm)	10,0	2.000		200
3	Isolamento	16,0	40		10
4	Impermeabilizzazione	0,5		15	15
5	Predalles (5+24+5)	34,0		470	470
6	Impianti appesi			30	30
7	Macchine copertura			300	300

SPESSORE TOTALE	61,0	
<u>TOTALE PERMANENTI STRUTTURALI E DEFINITI</u>		<u>710,0</u>
<u>TOTALE PERMANENTI PORTATI NON DEFINITI</u>		<u>330,0</u>
<u>CARICO ACCIDENTALE</u>	<u>NEVE</u>	<u>120,0</u>

TOTALE CARICO	1.160,0	Kg/mq
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TETTOIA

Co d	Descrizione	Spessore [cm]	Peso al mc [Kg/mc]	Peso al mq [Kg/mq]	Carico [Kg/mq]
1	Impermeabilizzazione	0,5		15	15
2	Strato pendenza (medio 7,5 cm)	7,5	2.000		150
3	Impermeabilizzazione	0,5		15	15
4	Getto pieno	15,0	2.500		375

SPESSORE TOTALE	23,5	
<u>TOTALE PERMANENTI STRUTTURALI E DEFINITI</u>		<u>555,0</u>
<u>TOTALE PERMANENTI PORTATI NON DEFINITI</u>		<u>0,0</u>
<u>CARICO ACCIDENTALE</u>	<u>NEVE</u>	<u>120,0</u>

TOTALE CARICO	675,0	Kg/mq
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GRONDA

Co d	Descrizione	Spessore [cm]	Peso al mc [Kg/mc]	Peso al mq [Kg/mq]	Carico [Kg/mq]
1	Lamiera grecata	0,5		40	40
2	Isolamento	10,0	40		5
3	Isolamento lana di roccia	10,0	120		15
4	Impermeabilizzazione	0,5		15	15
5	Getto pieno	20,0	2.500		500

SPESSORE TOTALE	41,0	
<u>TOTALE PERMANENTI STRUTTURALI E DEFINITI</u>		<u>575,0</u>
<u>TOTALE PERMANENTI PORTATI NON DEFINITI</u>		<u>0,0</u>
<u>CARICO ACCIDENTALE</u>	<u>NEVE</u>	<u>120,0</u>

TOTALE CARICO

695,0 Kg/mq

LOCALIZZAZIONE DELL'INTERVENTO

Località: SESTO CALENDE

Provincia: VARESE

Regione: LOMBARDIA

Coordinate GPS:

Latitudine : 45,72600 N

Longitudine: 8,63800 E

Altitudine s.l.m.: 198,0 m

CALCOLO DELLE AZIONI DELLA NEVE E DEL VENTO

Normativa di riferimento:

D.M. 17 gennaio 2018 - NORME TECNICHE PER LE COSTRUZIONI

Cap. 3 - AZIONI SULLE COSTRUZIONI - Par. 3.3 e 3.4

NEVE:

Zona Neve = I Mediterranea

Periodo di ritorno, $T_r = 50$ anni

$C_{tr} = 1$ per $T_r = 50$ anni

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

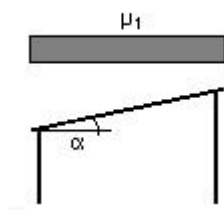
Valore caratteristico del carico al suolo = $q_{sk} C_e C_{tr} = 150$ daN/mq

Copertura ad una falda:

Angolo di inclinazione della falda $\alpha = 19,0^\circ$

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

Schema di carico:



VENTO:

Zona vento = 1

Velocità base della zona, $V_{b.o} = 25$ m/s (Tab. 3.3.I)

Altitudine base della zona, $A_o = 1000$ m (Tab. 3.3.I)

Altitudine del sito, $A_s = 198$ m

Velocità di riferimento, $V_b = 25,00$ m/s ($V_b = V_{b.o}$ per $A_s \leq A_o$)

Periodo di ritorno, $T_r = 50$ anni

$C_r = 1$ per $T_r = 50$ anni

Velocità riferita al periodo di ritorno di progetto, $V_r = V_b C_r = 25,00$ m/s

Classe di rugosità del terreno: D

[Aree prive di ostacoli o con al di più rari ostacoli isolati (aperta campagna, aeroporti, aree agricole, zone paludose o sabbiose, superfici innevate o ghiacciate, mare, laghi,...)]

Esposizione: Cat. II - Entroterra fino a 500 m di altitudine

($K_r = 0,19$; $Z_o = 0,05$ m; $Z_{min} = 4$ m)

Pressione cinetica di riferimento, $q_b = 39$ daN/mq

Coefficiente di forma, $C_p = 1,00$

Coefficiente dinamico, $C_d = 1,00$

Coefficiente di esposizione, $C_e = 2,04$

Coefficiente di esposizione topografica, $C_t = 1,00$

Altezza dell'edificio, $h = 6,00$ m

Pressione del vento, $p = q_b C_e C_p C_d = 80$ daN/mq

TEMPERATURA DELL'ARIA ESTERNA:

Zona: I

$T_{min} = -15.79^\circ$ [NTC 3.5.1]

$T_{max} = 40.81^\circ$ [NTC 3.5.2]

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qnk	CDC=Qnk (carico da neve)	
5	Edk	CDC=Ed (dinamico SLU) $\alpha=0.0$ (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=Qnk (carico da neve)
6	Edk	CDC=Ed (dinamico SLU) $\alpha=0.0$ (ecc. -)	come precedente CDC sismico
7	Edk	CDC=Ed (dinamico SLU) $\alpha=90.00$ (ecc. +)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLU) $\alpha=90.00$ (ecc. -)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLD) $\alpha=0.0$ (ecc. +)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLD) $\alpha=0.0$ (ecc. -)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) $\alpha=90.00$ (ecc. +)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLD) $\alpha=90.00$ (ecc. -)	come precedente CDC sismico
13	Qvk	CDC=Qvk (carico da vento) dir X +	Azioni applicate:
			D3 :da 1 a 216 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1 a 216 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 220 a 224 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 227 a 232 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 227 a 232 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 235 a 240 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 235 a 240 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 243 a 248 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 243 a 248 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 251 a 256 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-

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			P3:p=3.200e-03
			D3 :da 251 a 256 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 260 a 264 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 268 a 272 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 276 a 280 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 284 a 288 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 292 a 296 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 300 a 304 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 308 a 312 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 316 a 320 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 324 a 328 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 332 a 336 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 340 a 344 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 348 a 352 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 356 a 360 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 364 a 368 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 372 a 376 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 380 a 384 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 388 a 392 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 396 a 400 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 404 a 408 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 410 a 436 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 410 a 436 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 438 a 442 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 438 a 442 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 444 a 447 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 444 a 447 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 449 a 453 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 449 a 453 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 455 a 458 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 455 a 458 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 460 a 465 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 460 a 465 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 467 a 472 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 467 a 472 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 474 a 479 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03

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			D3 :da 474 a 479 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 481 a 484 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 481 a 484 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 486 a 580 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 486 a 580 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 582 a 586 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 588 a 591 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 593 a 597 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 599 a 602 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 604 a 609 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 611 a 616 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 618 a 623 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 625 a 628 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 630 a 738 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 740 a 757 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 740 a 757 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 759 a 776 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 759 a 776 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 778 a 795 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 778 a 795 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 825 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 825 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 834 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 834 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 843 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 843 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 856 a 991 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1152 a 1239 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1241 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1241 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1244 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1244 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1247 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1247 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1250 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1250 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1256 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1256 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1259 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1259 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1262 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1262 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1265 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1265 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1295 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1295 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1298 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1298 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03

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			D3 : 1301 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1301 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1304 a 1449 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1304 a 1449 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1453 a 1457 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1453 a 1457 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1467 a 1469 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1467 a 1469 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1479 a 1486 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1479 a 1486 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1525 a 1598 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1602 a 1606 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1602 a 1606 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1616 a 1618 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1616 a 1618 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1628 a 1635 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1628 a 1635 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
14	Qvk	CDC=Qvk (carico da vento) dir X -	Azioni applicate:
			D3 :da 1 a 216 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 220 a 224 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 220 a 224 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 227 a 232 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 235 a 240 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 243 a 248 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 251 a 256 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 260 a 264 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 260 a 264 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 268 a 272 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 268 a 272 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 276 a 280 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 276 a 280 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 284 a 288 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 284 a 288 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 292 a 296 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 292 a 296 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 300 a 304 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 300 a 304 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03

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			D3 :da 308 a 312 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 308 a 312 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 316 a 320 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 316 a 320 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 324 a 328 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 324 a 328 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 332 a 336 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 332 a 336 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 340 a 344 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 340 a 344 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 348 a 352 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 348 a 352 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 356 a 360 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 356 a 360 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 364 a 368 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 364 a 368 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 372 a 376 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 372 a 376 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 380 a 384 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 380 a 384 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 388 a 392 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 388 a 392 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 396 a 400 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 396 a 400 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 404 a 408 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 404 a 408 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 410 a 436 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 438 a 442 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 444 a 447 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 449 a 453 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 455 a 458 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 460 a 465 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 467 a 472 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 474 a 479 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 481 a 484 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 486 a 580 Azione : QVK PAN -- vento*0.4 (da personalizzare)-

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			P3:p=3.200e-03
			D3 :da 582 a 586 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 582 a 586 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 588 a 591 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 588 a 591 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 593 a 597 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 593 a 597 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 599 a 602 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 599 a 602 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 604 a 609 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 604 a 609 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 611 a 616 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 611 a 616 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 618 a 623 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 618 a 623 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 625 a 628 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 625 a 628 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 630 a 738 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 630 a 738 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 740 a 757 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 759 a 776 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 778 a 795 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 825 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 834 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 843 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 856 a 991 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 856 a 991 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1152 a 1239 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1152 a 1239 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1241 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1244 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1247 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1250 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1256 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1259 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1262 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1265 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1295 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1298 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1301 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1304 a 1449 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1453 a 1457 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1467 a 1469 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03

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			D3 :da 1479 a 1486 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1525 a 1598 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1525 a 1598 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1602 a 1606 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1616 a 1618 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 1628 a 1635 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
15	Qvk	CDC=Qvk (carico da vento) dir Y +	Azioni applicate:
			D2 : 53 Azione : Vento +y-DG:Fyi=1.30 Fyf=1.30
			D2 :da 56 a 57 Azione : Vento +y-DG:Fyi=1.30 Fyf=1.30
			D2 : 61 Azione : Vento +y-DG:Fyi=1.30 Fyf=1.30
			D2 : 65 Azione : Vento +y-DG:Fyi=1.30 Fyf=1.30
			D2 :da 158 a 160 Azione : Vento +y-DG:Fyi=1.30 Fyf=1.30
			D2 :da 167 a 170 Azione : Vento +y-DG:Fyi=1.30 Fyf=1.30
			D3 :da 217 a 219 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 225 a 226 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 233 a 234 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 241 a 242 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 249 a 250 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 257 a 259 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 265 a 267 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 273 a 275 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 281 a 283 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 289 a 291 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 297 a 299 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 305 a 307 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 313 a 315 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 321 a 323 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 329 a 331 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 337 a 339 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 345 a 347 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 353 a 355 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 361 a 363 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 369 a 371 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 377 a 379 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 385 a 387 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 393 a 395 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 401 a 403 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 409 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 437 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 437 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 443 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03

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			D3 : 443 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 448 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 448 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 454 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 454 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 459 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 459 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 466 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 466 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 473 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 473 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 480 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 480 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 485 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 485 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 581 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 581 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 587 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 587 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 592 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 592 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 598 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 598 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 603 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 603 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 610 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 610 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 617 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 617 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 624 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 624 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 629 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 629 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 739 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 739 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 758 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 758 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 777 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 777 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 796 a 824 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 796 a 824 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 826 a 833 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 826 a 833 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 835 a 842 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 835 a 842 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 844 a 855 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 844 a 855 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 992 a 1151 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1240 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1242 a 1243 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1245 a 1246 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1248 a 1249 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1251 a 1255 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1257 a 1258 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1260 a 1261 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p=3.200e-03

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			D3 :da 1263 a 1264 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1266 a 1294 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1296 a 1297 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1299 a 1300 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1302 a 1303 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1450 a 1452 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1458 a 1466 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1470 a 1478 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1470 a 1478 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1487 a 1524 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1599 a 1601 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1607 a 1615 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1619 a 1627 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1619 a 1627 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1636 a 1649 Azione : QVK PAN ++ vento*0.4 (da personalizzare)- P3:p=3.200e-03
16	Qvk	CDC=Qvk (carico da vento) dir Y -	Azioni applicate: D2 : 53 Azione : Vento -y-DG:Fyi=-0.65 Fyf=-0.65 D2 :da 56 a 57 Azione : Vento -y-DG:Fyi=-0.65 Fyf=-0.65 D2 : 61 Azione : Vento -y-DG:Fyi=-0.65 Fyf=-0.65 D2 : 65 Azione : Vento -y-DG:Fyi=-0.65 Fyf=-0.65 D2 :da 158 a 160 Azione : Vento -y-DG:Fyi=-0.65 Fyf=-0.65 D2 :da 167 a 170 Azione : Vento -y-DG:Fyi=-0.65 Fyf=-0.65 D3 :da 217 a 219 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 217 a 219 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 225 a 226 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 225 a 226 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 233 a 234 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 233 a 234 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 241 a 242 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 241 a 242 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 249 a 250 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 249 a 250 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 257 a 259 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 257 a 259 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 265 a 267 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 265 a 267 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 273 a 275 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 273 a 275 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03 D3 :da 281 a 283 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03

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			D3 :da 281 a 283 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 289 a 291 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 289 a 291 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 297 a 299 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 297 a 299 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 305 a 307 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 305 a 307 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 313 a 315 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 313 a 315 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 321 a 323 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 321 a 323 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 329 a 331 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 329 a 331 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 337 a 339 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 337 a 339 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 345 a 347 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 345 a 347 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 353 a 355 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 353 a 355 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 361 a 363 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 361 a 363 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 369 a 371 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 369 a 371 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 377 a 379 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 377 a 379 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 385 a 387 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 385 a 387 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 393 a 395 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 393 a 395 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 401 a 403 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 :da 401 a 403 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 409 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 409 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 437 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 443 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 448 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 454 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 459 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 466 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 473 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03

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			D3 : 480 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 485 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 581 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 587 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 592 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 598 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 603 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 610 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 617 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 624 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 629 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 739 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 758 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 777 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 796 a 824 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 826 a 833 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 835 a 842 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 844 a 855 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 992 a 1151 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 992 a 1151 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1240 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : 1240 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1242 a 1243 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1242 a 1243 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1245 a 1246 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1245 a 1246 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1248 a 1249 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1248 a 1249 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1251 a 1255 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1251 a 1255 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1257 a 1258 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1257 a 1258 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1260 a 1261 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1260 a 1261 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1263 a 1264 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1263 a 1264 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1266 a 1294 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1266 a 1294 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1296 a 1297 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1296 a 1297 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1299 a 1300 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1299 a 1300 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1302 a 1303 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03
			D3 : da 1302 a 1303 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p=3.200e-03

CDC	Tipo	Sigla Id	Note
			P3:p=3.200e-03
			D3 :da 1450 a 1452 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1450 a 1452 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1458 a 1466 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1458 a 1466 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1470 a 1478 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1487 a 1524 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1487 a 1524 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1599 a 1601 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1599 a 1601 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1607 a 1615 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1607 a 1615 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1619 a 1627 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1636 a 1649 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03
			D3 :da 1636 a 1649 Azione : QVK PAN -- vento*0.4 (da personalizzare)- P3:p=3.200e-03

DEFINIZIONE DELLE COMBINAZIONI

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

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

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

Combinazione fondamentale SLU

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

Combinazione caratteristica (rara) SLE

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

Combinazione frequente SLE

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

Combinazione quasi permanente SLE

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

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

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

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

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

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	ψ_0	ψ_1	ψ_2
<i>Categoria A residenziali</i>	0,70	0,50	0,30
<i>Categoria B uffici</i>	0,70	0,50	0,30
<i>Categoria C ambienti suscettibili di affollamento</i>	0,70	0,70	0,60
<i>Categoria D ambienti ad uso commerciale</i>	0,70	0,70	0,60
<i>Categoria E biblioteche, archivi, magazzini, ...</i>	1,00	0,90	0,80
<i>Categoria F Rimesse e parcheggi (autoveicoli $\leq 30\text{kN}$)</i>	0,70	0,70	0,60
<i>Categoria G Rimesse e parcheggi (autoveicoli $> 30\text{kN}$)</i>	0,70	0,50	0,30
<i>Categoria H Coperture</i>	0,00	0,00	0,00
<i>Vento</i>	0,60	0,20	0,00
<i>Neve a quota $\leq 1000\text{ m}$</i>	0,50	0,20	0,00
<i>Neve a quota $> 1000\text{ m}$</i>	0,70	0,50	0,20
<i>Variazioni Termiche</i>	0,60	0,50	0,00

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

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

NTC 2018 Tabella 2.6.I

		Coefficiente γ_f	EQU	A1	A2
<i>Carichi permanenti</i>	<i>Favorevoli</i>	γ_{G1}	0,9	1,0	1,0
	<i>Sfavorevoli</i>		1,1	1,3	1,0
<i>Carichi permanenti non strutturali</i> <i>(Non compiutamente definiti)</i>	<i>Favorevoli</i>	γ_{G2}	0,8	0,8	0,8
	<i>Sfavorevoli</i>		1,5	1,5	1,3
<i>Carichi variabili</i>	<i>Favorevoli</i>	γ_{Qi}	0,0	0,0	0,0
	<i>Sfavorevoli</i>		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 9	
10	SLU	Comb. SLU A1 10	
11	SLU	Comb. SLU A1 11	
12	SLU	Comb. SLU A1 12	
13	SLU	Comb. SLU A1 13	
14	SLU	Comb. SLU A1 14	
15	SLU	Comb. SLU A1 15	
16	SLU	Comb. SLU A1 16	
17	SLU	Comb. SLU A1 17	
18	SLU	Comb. SLU A1 18	



Cmb	Tipo	Sigla Id	effetto P-delta
19	SLU	Comb. SLU A1 19	
20	SLU	Comb. SLU A1 20	
21	SLU	Comb. SLU A1 21	
22	SLU	Comb. SLU A1 22	
23	SLU	Comb. SLU A1 23	
24	SLU	Comb. SLU A1 24	
25	SLU	Comb. SLU A1 25	
26	SLU	Comb. SLU A1 26	
27	SLU	Comb. SLU A1 27	
28	SLU	Comb. SLU A1 28	
29	SLU	Comb. SLU A1 29	
30	SLU	Comb. SLU A1 30	
31	SLU	Comb. SLU A1 31	
32	SLU	Comb. SLU A1 32	
33	SLU	Comb. SLU A1 33	
34	SLU	Comb. SLU A1 34	
35	SLU	Comb. SLU A1 35	
36	SLU	Comb. SLU A1 36	
37	SLU	Comb. SLU A1 37	
38	SLU	Comb. SLU A1 38	
39	SLU	Comb. SLU A1 39	
40	SLU	Comb. SLU A1 40	
41	SLU	Comb. SLU A1 41	
42	SLU	Comb. SLU A1 42	
43	SLU	Comb. SLU A1 43	
44	SLU	Comb. SLU A1 44	
45	SLU	Comb. SLU A1 45	
46	SLU	Comb. SLU A1 46	
47	SLU	Comb. SLU A1 (SLV sism.) 47	
48	SLU	Comb. SLU A1 (SLV sism.) 48	
49	SLU	Comb. SLU A1 (SLV sism.) 49	
50	SLU	Comb. SLU A1 (SLV sism.) 50	
51	SLU	Comb. SLU A1 (SLV sism.) 51	
52	SLU	Comb. SLU A1 (SLV sism.) 52	
53	SLU	Comb. SLU A1 (SLV sism.) 53	
54	SLU	Comb. SLU A1 (SLV sism.) 54	
55	SLU	Comb. SLU A1 (SLV sism.) 55	
56	SLU	Comb. SLU A1 (SLV sism.) 56	
57	SLU	Comb. SLU A1 (SLV sism.) 57	
58	SLU	Comb. SLU A1 (SLV sism.) 58	
59	SLU	Comb. SLU A1 (SLV sism.) 59	
60	SLU	Comb. SLU A1 (SLV sism.) 60	
61	SLU	Comb. SLU A1 (SLV sism.) 61	
62	SLU	Comb. SLU A1 (SLV sism.) 62	
63	SLU	Comb. SLU A1 (SLV sism.) 63	
64	SLU	Comb. SLU A1 (SLV sism.) 64	
65	SLU	Comb. SLU A1 (SLV sism.) 65	
66	SLU	Comb. SLU A1 (SLV sism.) 66	
67	SLU	Comb. SLU A1 (SLV sism.) 67	
68	SLU	Comb. SLU A1 (SLV sism.) 68	
69	SLU	Comb. SLU A1 (SLV sism.) 69	
70	SLU	Comb. SLU A1 (SLV sism.) 70	
71	SLU	Comb. SLU A1 (SLV sism.) 71	
72	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	SLE(sis)	Comb. SLE (SLD Danno sism.) 79	
80	SLE(sis)	Comb. SLE (SLD Danno sism.) 80	
81	SLE(sis)	Comb. SLE (SLD Danno sism.) 81	
82	SLE(sis)	Comb. SLE (SLD Danno sism.) 82	
83	SLE(sis)	Comb. SLE (SLD Danno sism.) 83	
84	SLE(sis)	Comb. SLE (SLD Danno sism.) 84	
85	SLE(sis)	Comb. SLE (SLD Danno sism.) 85	
86	SLE(sis)	Comb. SLE (SLD Danno sism.) 86	
87	SLE(sis)	Comb. SLE (SLD Danno sism.) 87	
88	SLE(sis)	Comb. SLE (SLD Danno sism.) 88	



Cmb	Tipo	Sigla Id	effetto P-delta
89	SLE(sis)	Comb. SLE (SLD Danno sism.) 89	
90	SLE(sis)	Comb. SLE (SLD Danno sism.) 90	
91	SLE(sis)	Comb. SLE (SLD Danno sism.) 91	
92	SLE(sis)	Comb. SLE (SLD Danno sism.) 92	
93	SLE(sis)	Comb. SLE (SLD Danno sism.) 93	
94	SLE(sis)	Comb. SLE (SLD Danno sism.) 94	
95	SLE(sis)	Comb. SLE (SLD Danno sism.) 95	
96	SLE(sis)	Comb. SLE (SLD Danno sism.) 96	
97	SLE(sis)	Comb. SLE (SLD Danno sism.) 97	
98	SLE(sis)	Comb. SLE (SLD Danno sism.) 98	
99	SLE(sis)	Comb. SLE (SLD Danno sism.) 99	
100	SLE(sis)	Comb. SLE (SLD Danno sism.) 100	
101	SLE(sis)	Comb. SLE (SLD Danno sism.) 101	
102	SLE(sis)	Comb. SLE (SLD Danno sism.) 102	
103	SLE(sis)	Comb. SLE (SLD Danno sism.) 103	
104	SLE(sis)	Comb. SLE (SLD Danno sism.) 104	
105	SLE(sis)	Comb. SLE (SLD Danno sism.) 105	
106	SLE(sis)	Comb. SLE (SLD Danno sism.) 106	
107	SLE(sis)	Comb. SLE (SLD Danno sism.) 107	
108	SLE(sis)	Comb. SLE (SLD Danno sism.) 108	
109	SLE(sis)	Comb. SLE (SLD Danno sism.) 109	
110	SLE(sis)	Comb. SLE (SLD Danno sism.) 110	
111	SLE(r)	Comb. SLE(rara) 111	
112	SLE(r)	Comb. SLE(rara) 112	
113	SLE(r)	Comb. SLE(rara) 113	
114	SLE(r)	Comb. SLE(rara) 114	
115	SLE(r)	Comb. SLE(rara) 115	
116	SLE(r)	Comb. SLE(rara) 116	
117	SLE(r)	Comb. SLE(rara) 117	
118	SLE(r)	Comb. SLE(rara) 118	
119	SLE(r)	Comb. SLE(rara) 119	
120	SLE(r)	Comb. SLE(rara) 120	
121	SLE(r)	Comb. SLE(rara) 121	
122	SLE(r)	Comb. SLE(rara) 122	
123	SLE(r)	Comb. SLE(rara) 123	
124	SLE(r)	Comb. SLE(rara) 124	
125	SLE(r)	Comb. SLE(rara) 125	
126	SLE(r)	Comb. SLE(rara) 126	
127	SLE(r)	Comb. SLE(rara) 127	
128	SLE(r)	Comb. SLE(rara) 128	
129	SLE(r)	Comb. SLE(rara) 129	
130	SLE(r)	Comb. SLE(rara) 130	
131	SLE(r)	Comb. SLE(rara) 131	
132	SLE(r)	Comb. SLE(rara) 132	
133	SLE(r)	Comb. SLE(rara) 133	
134	SLE(f)	Comb. SLE(freq.) 134	
135	SLE(f)	Comb. SLE(freq.) 135	
136	SLE(f)	Comb. SLE(freq.) 136	
137	SLE(f)	Comb. SLE(freq.) 137	
138	SLE(f)	Comb. SLE(freq.) 138	
139	SLE(f)	Comb. SLE(freq.) 139	
140	SLE(p)	Comb. SLE(perm.) 140	
141	SLU(ecc.)	Comb. SLU (Eccez.) 141	

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



Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0												
8	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0												
9	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0												
10	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0												
11	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
	0.0	0.0												
12	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0
	0.0	0.0												
13	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0
	0.0	0.0												
14	1.00	1.00	0.80	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0
	0.0	0.0												
15	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0												
16	1.00	1.00	0.80	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0												
17	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90
	0.0	0.0												
18	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90
	0.0	0.0												
19	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90
	0.0	0.0												
20	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90
	0.0	0.0												
21	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90
	0.0	0.0												
22	1.00	1.00	0.80	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90
	0.0	0.0												
23	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50
	0.0	0.0												
24	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50
	0.0	0.0												
25	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50
	0.0	0.0												
26	1.00	1.00	0.80	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50
	0.0	0.0												
27	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.90	0.0												
28	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.90	0.0												
29	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.90	0.0												
30	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.90	0.0												
31	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.90	0.0												
32	1.00	1.00	0.80	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.90	0.0												
33	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0												
34	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0												
35	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0												
36	1.00	1.00	0.80	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0												
37	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.90												
38	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.90												
39	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.90												
40	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.90												
41	1.30	1.30	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.90												



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...
42	1.00 0.0	1.00 0.90	0.80	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	1.30 0.0	1.30 1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	1.30 0.0	1.30 1.50	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	1.00 0.0	1.00 1.50	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	1.00 0.0	1.00 1.50	0.80	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	1.00 0.0	1.00 0.0	1.00	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	1.00 0.0	1.00 0.0	1.00	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	1.00 0.0	1.00 0.0	1.00	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	1.00 0.0	1.00 0.0	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	1.00 0.0	1.00 0.0	1.00	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0
52	1.00 0.0	1.00 0.0	1.00	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0
53	1.00 0.0	1.00 0.0	1.00	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0
54	1.00 0.0	1.00 0.0	1.00	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0
55	1.00 0.0	1.00 0.0	1.00	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	1.00 0.0	1.00 0.0	1.00	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	1.00 0.0	1.00 0.0	1.00	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	1.00 0.0	1.00 0.0	1.00	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	1.00 0.0	1.00 0.0	1.00	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0
60	1.00 0.0	1.00 0.0	1.00	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0
61	1.00 0.0	1.00 0.0	1.00	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0
62	1.00 0.0	1.00 0.0	1.00	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0
63	1.00 0.0	1.00 0.0	1.00	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	1.00 0.0	1.00 0.0	1.00	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	1.00 0.0	1.00 0.0	1.00	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	1.00 0.0	1.00 0.0	1.00	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	1.00 0.0	1.00 0.0	1.00	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	1.00 0.0	1.00 0.0	1.00	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	1.00 0.0	1.00 0.0	1.00	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0
72	1.00 0.0	1.00 0.0	1.00	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0
73	1.00 0.0	1.00 0.0	1.00	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0
74	1.00 0.0	1.00 0.0	1.00	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0
75	1.00 0.0	1.00 0.0	1.00	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0
76	1.00	1.00	1.00	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0



Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0												
77	1.00	1.00	1.00	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
78	1.00	1.00	1.00	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
79	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0
	0.0	0.0												
80	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0
	0.0	0.0												
81	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0
	0.0	0.0												
82	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0
	0.0	0.0												
83	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0
	0.0	0.0												
84	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	0.0	0.0
	0.0	0.0												
85	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	0.0	0.0
	0.0	0.0												
86	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	0.0	0.0
	0.0	0.0												
87	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0
	0.0	0.0												
88	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	0.0	0.0
	0.0	0.0												
89	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	0.0	0.0
	0.0	0.0												
90	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	0.0	0.0
	0.0	0.0												
91	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0
	0.0	0.0												
92	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0
	0.0	0.0												
93	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0
	0.0	0.0												
94	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0
	0.0	0.0												
95	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0
	0.0	0.0												
96	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0
	0.0	0.0												
97	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0
	0.0	0.0												
98	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0
	0.0	0.0												
99	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0
	0.0	0.0												
100	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	0.0	0.0
	0.0	0.0												
101	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	0.0	0.0
	0.0	0.0												
102	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	0.0	0.0
	0.0	0.0												
103	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0
	0.0	0.0												
104	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	0.0	0.0
	0.0	0.0												
105	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	0.0	0.0
	0.0	0.0												
106	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	0.0	0.0
	0.0	0.0												
107	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0
	0.0	0.0												
108	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0
	0.0	0.0												
109	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0
	0.0	0.0												
110	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0
	0.0	0.0												

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...
111	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112	1.00 0.0	1.00 0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113	1.00 0.0	1.00 0.0	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0
115	1.00 0.0	1.00 0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0
116	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
117	1.00 0.0	1.00 0.0	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
118	1.00 0.0	1.00 0.0	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0
119	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60
120	1.00 0.0	1.00 0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60
121	1.00 0.0	1.00 0.0	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60
122	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00
123	1.00 0.0	1.00 0.0	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00
124	1.00 0.60	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	1.00 0.60	1.00 0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126	1.00 0.60	1.00 0.0	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127	1.00 1.00	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128	1.00 1.00	1.00 0.0	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129	1.00 0.0	1.00 0.60	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	1.00 0.0	1.00 0.60	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	1.00 0.0	1.00 0.60	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132	1.00 0.0	1.00 1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133	1.00 0.0	1.00 1.00	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	1.00 0.0	1.00 0.0	1.00	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0
137	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
138	1.00 0.20	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139	1.00 0.0	1.00 0.20	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141	1.00 0.0	1.00 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di

sito di riferimento rigido con superficie topografica orizzontale.

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

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

ag: accelerazione orizzontale massima del terreno;

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

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

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

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 $S = S_s \cdot S_t$ (3.2.3)

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

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

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

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

Lo spettro di risposta elastico in accelerazione della componente orizzontale del moto sismico, S_e , è definito dalle seguenti espressioni:

$$\begin{aligned}
 0 \leq T < T_b & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left[\frac{T}{T_b} + \frac{1}{\eta \cdot F_o} \left(1 - \frac{T}{T_b} \right) \right] \\
 T_b \leq T < T_c & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \\
 T_c \leq T < T_d & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left(\frac{T_c}{T} \right) \\
 T_d \leq T & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left(\frac{T_c \cdot T_d}{T^2} \right)
 \end{aligned}$$

Dove per sottosuolo di categoria **A** i coefficienti S_s e C_c valgono 1; mentre per le categorie di sottosuolo B, C, D, E i coefficienti S_s e C_c vengono calcolati mediante le espressioni riportate nella seguente Tabella

Categoria sottosuolo	S_s	C_c
A	1,00	1,00
B	$1,00 \leq 1,40 - 0,40 \cdot F_o \cdot \frac{a_g}{g} \leq 1,20$	$1,10 \cdot (T_c^*)^{-0,20}$
C	$1,00 \leq 1,70 - 0,60 \cdot F_o \cdot \frac{a_g}{g} \leq 1,50$	$1,05 \cdot (T_c^*)^{-0,33}$
D	$0,90 \leq 2,40 - 1,50 \cdot F_o \cdot \frac{a_g}{g} \leq 1,80$	$1,25 \cdot (T_c^*)^{-0,50}$
E	$1,00 \leq 2,00 - 1,10 \cdot F_o \cdot \frac{a_g}{g} \leq 1,60$	$1,15 \cdot (T_c^*)^{-0,40}$

Per tenere conto delle condizioni topografiche e in assenza di specifiche analisi di risposta sismica locale, si utilizzano i valori del coefficiente topografico S_T riportati nella seguente Tabella

Categoria topografica	Ubicazione dell'opera o dell'intervento	S_T
T1	-	1,0
T2	In corrispondenza della sommità del pendio	1,2
T3	In corrispondenza della cresta di un rilievo con pendenza media minore o uguale a 30°	1,2
T4	In corrispondenza della cresta di un rilievo con pendenza media maggiore di 30°	1,4

Lo spettro di risposta elastico in accelerazione della componente verticale del moto sismico, S_{ve} , è definito dalle espressioni:

$$\begin{aligned}
 0 \leq T < T_B & \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left[\frac{T}{T_B} + \frac{1}{\eta \cdot F_o} \left(1 - \frac{T}{T_B} \right) \right] \\
 T_B \leq T < T_C & \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \\
 T_C \leq T < T_D & \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left(\frac{T_C}{T} \right) \\
 T_D \leq T & \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left(\frac{T_C \cdot T_D}{T^2} \right)
 \end{aligned}$$

I valori di S_s , T_B , T_C e T_D , sono riportati nella seguente Tabella

Categoria di sottosuolo	S_s	T_B	T_C	T_D
A, B, C, D, E	1,0	0,05 s	0,15 s	1,0 s

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	8.638	45.726	
11143	8.629	45.687	4.514
11144	8.700	45.690	6.272
10922	8.696	45.740	4.656
10921	8.624	45.737	1.621

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	45.2	0.017	2.557	0.168
SLD	63.0	75.4	0.021	2.530	0.201
SLV	10.0	711.8	0.042	2.653	0.295



SL	Pver	Tr	ag	Fo	T*c
SLC	5.0	1462.2	0.050	2.731	0.316

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.017	1.500	2.557	0.451	0.106	0.318	1.668
SLD	0.021	1.500	2.530	0.496	0.119	0.358	1.684
SLV	0.042	1.500	2.653	0.733	0.154	0.463	1.768
SLC	0.050	1.500	2.731	0.821	0.162	0.485	1.798

Valutazione della pericolosità sismica

ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

p.e. 10% in 50 anni

Nota: per il calcolo dei parametri sismici
1) inserire le coordinate geografiche 2) introdurre Vn e Cu
Per le isole è possibile utilizzare come località: gruppo isole N
[con N = 1,2,3,4,5]

Vertici della maglia elementare INGV [riferimento ED50]

Id nodo	Longitudine	Latitudine	Distanza [km]
11143	8.629	45.687	4.514
11144	8.700	45.690	6.272
10922	8.696	45.740	4.656
10921	8.624	45.737	1.621

Coordinate geografiche [riferimento WGS84]

Località: **SESTO CALENDE (VA)**

Longitudine: **8.6380** Latitudine: **45.7260**

☐ Applica la Risposta Sismica Locale

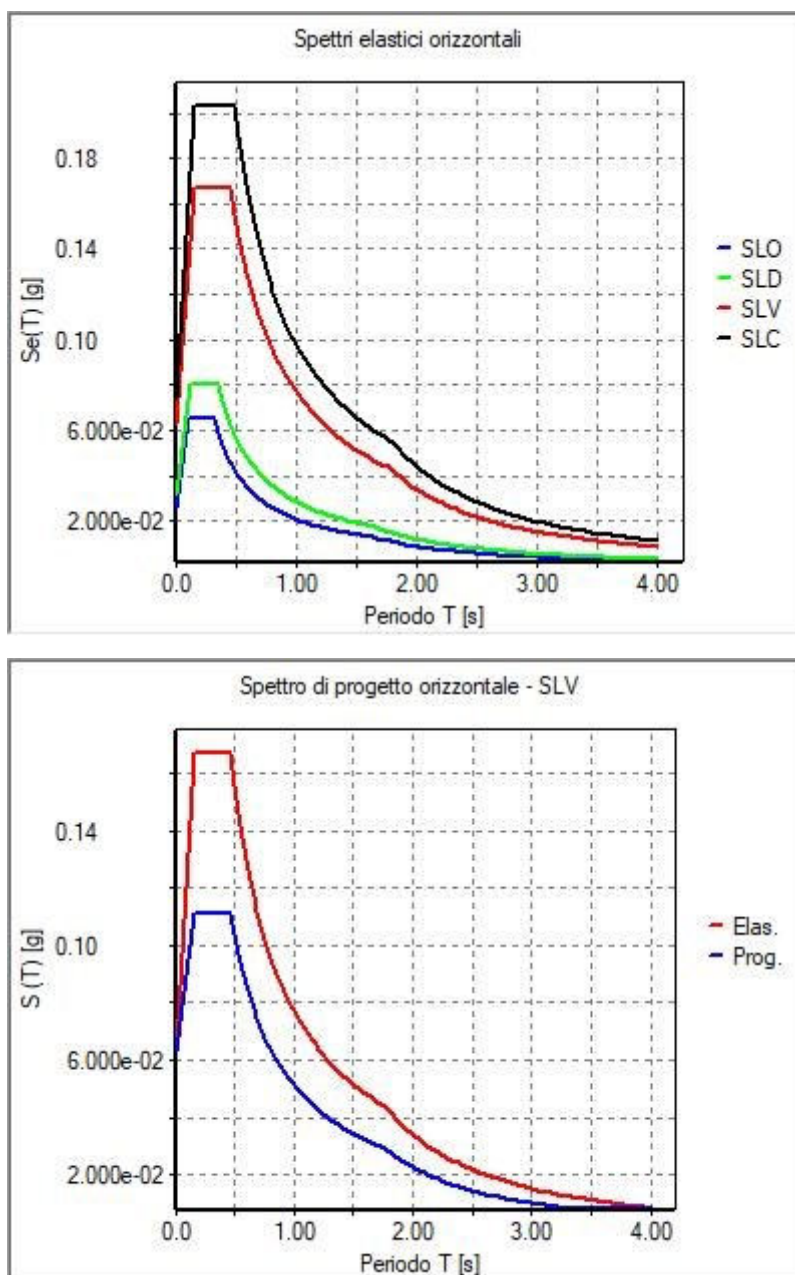
Parametri per le forme spettrali

	Pver	Tr	ag [g]	Fo	T*c
SLO	81	45.16	0.0171	2.557	0.168
SLD	63	75.43	0.0211	2.530	0.201
SLV	10	711.84	0.0419	2.653	0.295
SLC	5	1462.18	0.0496	2.731	0.316

Periodo di riferimento per l'azione sismica

Vita Vn [anni]	Coefficiente uso Cu	Periodo Vr [anni]	Livello di sicurezza
50	1.5	75	100

☐ Rimuovi limiti Vr e Tr (di norma NO)



RISULTATI 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 ingresso	di	Angolo di ingresso dell'azione sismica orizzontale
Fattore importanza	di	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica		Zona sismica
Accelerazione ag		Accelerazione orizzontale massima sul suolo
Categoria suolo		Categoria di profilo stratigrafico del suolo di fondazione
Fattore q		Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Amplificazione ND		Coefficiente di amplificazione q/qND delle azioni sismiche (solo per elementi progettati in campo non dissipativo)
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 SLD	riduz.	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo T1	proprio	Periodo proprio di vibrazione della struttura
Coefficiente Lambda		Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata Sd(T1)	spettro	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata Se(T1)	spettro	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata S (Tb-Tc)	spettro	Valore dell'ordinata dello spettro in uso nel tratto costante
N°di considerati	modi	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Nel caso di elementi progettati in campo non dissipativo vengono adottate le sollecitazioni calcolate con un fattore qND ricavato come da 7.3.2 in funzione del fattore di comportamento q utilizzato per la struttura: $1 < qND = 2/3 \cdot q < 1.5$

Il coefficiente di amplificazione delle azioni sismiche rispetto alle azioni calcolate con il fattore di comportamento globale viene indicato nelle relative tabelle.

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

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

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

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

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo la circolare n.7/2019 del C.S.LL.PP nelle combinazioni in SLC come previsto dal DM 17-01-2018. Per ogni combinazione è riportato il codice di verifica ed i valori utilizzati per la verifica: spostamento d_E , area ridotta e dimensione A_2 , azione verticale, deformazioni di taglio dell'elastomero e tensioni nell'acciaio.

In particolare la tabella, per ogni combinazione di calcolo, riporta:

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata
d_E	Spostamento relativo tra le due facce combinato con la regola del 30%
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta A_r (per dispositivi circolari)
V	Azione verticale agente
A_r	Area ridotta efficace
Dim A_2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
Gam c(a,s,t)	Deformazioni di taglio dell' elastomero
Vcr	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

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

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

La costruzione, nuova, è caratterizzata da regolarità in pianta e non regolarità in altezza ed è progettata considerando un comportamento non dissipativo (ND).

I valori dei fattori nelle direzioni x e y sono stati impostati manualmente dal progettista.

Fattori di comportamento utilizzati

	Dissipativi	Non dissipativi
q SLU x	3.000	1.500
q SLU y	3.000	1.500
q SLU z	1.500	1.500



CDC	Tipo	Sigla Id	Note
5	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.111 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.339 sec.
			fattore q: 1.500
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.683
			classe di duttilità CD: ND
			numero di modi considerati: 130
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
680.00	9340.85	950.00	1080.00	0.0	0.0	950.00	1080.00	0.958	0.0	0.0
666.67	204.07	950.00	1040.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.33	176.29	950.00	1000.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.00	551.85	950.00	1003.65	0.0	-6.00	950.00	1020.00	2.988	0.0	0.003
626.67	204.07	950.00	920.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.33	176.29	950.00	880.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	1031.85	950.00	947.08	0.0	-12.00	950.00	960.00	2.953	0.0	0.001
586.67	204.07	950.00	800.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.33	1.913e+04	950.00	760.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
560.00	1511.85	950.00	888.33	0.0	-18.00	950.00	900.00	2.896	0.0	6.8246e-04
546.67	204.07	950.00	680.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.33	176.29	950.00	640.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
520.00	1991.85	950.00	828.98	0.0	-24.00	950.00	840.00	2.820	0.0	4.8342e-04
506.67	204.07	950.00	560.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.33	176.29	950.00	520.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.00	7.328e+04	950.00	1069.52	0.0	-30.00	950.00	981.73	2.733	0.0	0.005
466.67	1.920e+04	950.00	440.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
453.33	176.29	950.00	400.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	3491.85	950.00	766.92	0.0	-36.00	950.00	946.05	2.623	0.0	0.009
426.67	204.07	950.00	320.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.33	176.29	950.00	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.00	3971.85	950.00	708.32	0.0	-42.00	950.00	908.32	2.510	0.0	0.008
386.67	204.07	950.00	200.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
373.33	176.29	950.00	160.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.00	2.233e+04	950.00	225.53	0.0	-48.00	950.00	143.90	2.391	0.0	0.015
346.67	5172.52	950.00	80.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.33	5053.08	950.00	40.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	1.747e+05	950.00	1439.29	0.0	-95.00	950.00	1886.03	1.663	0.0	0.332
280.00	9610.00	950.00	812.20	0.0	-93.00	950.00	158.39	1.532	0.0	0.045
270.00	1.004e+05	1538.20	2124.03	0.0	-21.15	993.48	1900.00	1.1525e-05	1.899	72.172
240.00	1.300e+04	950.00	1096.18	0.0	-95.00	950.00	1886.03	1.520	0.0	0.586
200.00	1.192e+04	989.57	1039.53	0.0	-95.00	1141.94	1868.06	1.463	0.162	0.454
160.00	1.035e+04	1041.15	928.05	0.0	-95.00	1141.94	1868.06	1.463	0.107	0.515
120.00	1.103e+04	1035.53	988.06	0.0	-95.00	1141.93	1885.74	1.463	0.113	0.737
80.00	1.002e+04	1042.90	1021.03	0.0	-95.00	1170.99	1872.49	1.450	0.137	0.572
40.00	1.004e+04	1040.42	1023.11	0.0	-95.00	1141.93	1885.74	1.463	0.108	0.708
Risulta	5.198e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.998	0.501	0.103	2.06	3.97e-04	7.479e+04	14.4	9.76	1.88e-03	0.0	0.0
2	2.949	0.339	0.111	1.445e+05	27.8	125.77	2.42e-02	4.31	8.29e-04	0.0	0.0
3	4.069	0.246	0.111	1050.36	0.2	9.085e+04	17.5	3.801e+04	7.3	0.0	0.0
4	4.185	0.239	0.111	30.26	5.82e-03	587.47	0.1	566.28	0.1	0.0	0.0
5	4.284	0.233	0.111	1.154e+04	2.2	121.61	2.34e-02	74.11	1.43e-02	0.0	0.0
6	4.300	0.233	0.111	4.538e+04	8.7	881.23	0.2	378.20	7.28e-02	0.0	0.0
7	4.327	0.231	0.111	0.03	6.25e-06	0.10	1.90e-05	3.64	7.01e-04	0.0	0.0
8	4.338	0.231	0.111	77.53	1.49e-02	90.82	1.75e-02	2790.97	0.5	0.0	0.0
9	4.351	0.230	0.111	3.514e+04	6.8	324.01	6.23e-02	48.15	9.26e-03	0.0	0.0
10	4.368	0.229	0.111	1.791e+04	3.4	380.03	7.31e-02	57.62	1.11e-02	0.0	0.0



Modo	Frequenza	Periodo	Acc. Spetttrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
11	4.379	0.228	0.111	9.86e-03	1.90e-06	0.05	9.47e-06	2.16	4.15e-04	0.0	0.0
12	4.388	0.228	0.111	16.15	3.11e-03	3.50	6.73e-04	0.37	7.08e-05	0.0	0.0
13	4.392	0.228	0.111	1.38e-05	0.0	1.40e-03	0.0	0.05	9.72e-06	0.0	0.0
14	4.395	0.228	0.111	0.08	1.47e-05	0.11	2.05e-05	8.38e-03	1.61e-06	0.0	0.0
15	4.396	0.227	0.111	8.13e-05	0.0	1.39e-03	0.0	0.04	8.43e-06	0.0	0.0
16	4.397	0.227	0.111	0.12	2.38e-05	3.81e-03	0.0	1.43e-04	0.0	0.0	0.0
17	4.398	0.227	0.111	3.76e-06	0.0	3.47e-04	0.0	4.64e-03	0.0	0.0	0.0
18	4.399	0.227	0.111	0.06	1.23e-05	4.83e-06	0.0	9.01e-06	0.0	0.0	0.0
19	4.399	0.227	0.111	6.01e-06	0.0	3.95e-05	0.0	3.48e-04	0.0	0.0	0.0
20	4.427	0.226	0.111	4781.16	0.9	91.97	1.77e-02	9.05	1.74e-03	0.0	0.0
21	4.428	0.226	0.111	7.06	1.36e-03	11.54	2.22e-03	847.40	0.2	0.0	0.0
22	4.431	0.226	0.111	217.98	4.19e-02	55.41	1.07e-02	177.81	3.42e-02	0.0	0.0
23	4.436	0.225	0.111	3.723e+04	7.2	554.34	0.1	49.16	9.46e-03	0.0	0.0
24	4.440	0.225	0.111	11.16	2.15e-03	89.43	1.72e-02	213.84	4.11e-02	0.0	0.0
25	4.441	0.225	0.111	1.080e+04	2.1	70.23	1.35e-02	31.53	6.07e-03	0.0	0.0
26	4.448	0.225	0.111	1.92	3.69e-04	9.69	1.86e-03	21.18	4.08e-03	0.0	0.0
27	4.455	0.224	0.111	4.172e+04	8.0	608.66	0.1	77.32	1.49e-02	0.0	0.0
28	4.457	0.224	0.111	0.12	2.29e-05	0.36	6.97e-05	13.80	2.66e-03	0.0	0.0
29	4.457	0.224	0.111	60.59	1.17e-02	1.65	3.17e-04	0.15	2.98e-05	0.0	0.0
30	4.458	0.224	0.111	4.163e+04	8.0	619.34	0.1	77.28	1.49e-02	0.0	0.0
31	4.830	0.207	0.111	2.737e+04	5.3	1.940e+05	37.3	1.389e+04	2.7	0.0	0.0
32	5.283	0.189	0.111	1.305e+04	2.5	2.093e+04	4.0	3980.87	0.8	0.0	0.0
33	5.663	0.177	0.111	7853.56	1.5	61.04	1.17e-02	2216.93	0.4	0.0	0.0
34	7.151	0.140	0.107	3932.99	0.8	7.200e+04	13.9	4.834e+04	9.3	0.0	0.0
35	7.509	0.133	0.105	774.22	0.1	8682.66	1.7	1.829e+05	35.2	0.0	0.0
36	7.819	0.128	0.103	0.89	1.71e-04	118.32	2.28e-02	6364.77	1.2	0.0	0.0
37	8.101	0.123	0.102	9028.82	1.7	6591.65	1.3	12.99	2.50e-03	0.0	0.0
38	8.433	0.119	0.100	4.538e+04	8.7	6234.92	1.2	561.50	0.1	0.0	0.0
39	9.483	0.105	0.096	243.60	4.69e-02	1047.49	0.2	2347.30	0.5	0.0	0.0
40	9.874	0.101	0.095	550.26	0.1	67.47	1.30e-02	6.24	1.20e-03	0.0	0.0
41	10.497	0.095	0.093	7.81	1.50e-03	735.68	0.1	6325.47	1.2	0.0	0.0
42	10.800	0.093	0.092	0.03	5.97e-06	12.04	2.32e-03	50.46	9.71e-03	0.0	0.0
43	10.987	0.091	0.091	148.76	2.86e-02	2.215e+04	4.3	4.692e+04	9.0	0.0	0.0
44	12.245	0.082	0.088	212.81	4.09e-02	205.10	3.95e-02	2.384e+04	4.6	0.0	0.0
45	12.325	0.081	0.088	2246.53	0.4	3402.22	0.7	9226.51	1.8	0.0	0.0
46	12.518	0.080	0.088	0.38	7.25e-05	116.18	2.24e-02	9913.62	1.9	0.0	0.0
47	12.562	0.080	0.088	51.34	9.88e-03	339.14	6.52e-02	1739.12	0.3	0.0	0.0
48	12.898	0.078	0.087	28.21	5.43e-03	472.42	9.09e-02	6006.93	1.2	0.0	0.0
49	13.032	0.077	0.087	4.23	8.13e-04	13.01	2.50e-03	8655.60	1.7	0.0	0.0
50	13.262	0.075	0.087	0.40	7.74e-05	0.19	3.73e-05	2.677e+04	5.2	0.0	0.0
51	13.324	0.075	0.086	49.06	9.44e-03	649.89	0.1	3.363e+04	6.5	0.0	0.0
52	13.471	0.074	0.086	6279.97	1.2	23.19	4.46e-03	657.43	0.1	0.0	0.0
53	13.981	0.072	0.085	2.87	5.52e-04	3.33	6.40e-04	843.27	0.2	0.0	0.0
54	14.348	0.070	0.085	1437.17	0.3	17.20	3.31e-03	4.13	7.95e-04	0.0	0.0
55	15.172	0.066	0.084	0.01	2.81e-06	1.31	2.52e-04	1447.20	0.3	0.0	0.0
56	15.438	0.065	0.083	0.05	1.05e-05	0.53	1.03e-04	995.13	0.2	0.0	0.0
57	15.440	0.065	0.083	5.63	1.08e-03	32.92	6.33e-03	104.37	2.01e-02	0.0	0.0
58	15.450	0.065	0.083	18.29	3.52e-03	76.16	1.47e-02	290.58	5.59e-02	0.0	0.0
59	15.732	0.064	0.083	37.71	7.26e-03	0.43	8.26e-05	0.28	5.32e-05	0.0	0.0
60	15.784	0.063	0.083	2.47	4.75e-04	19.39	3.73e-03	96.03	1.85e-02	0.0	0.0
61	15.796	0.063	0.083	0.61	1.17e-04	2.88e-03	0.0	0.09	1.81e-05	0.0	0.0
62	15.815	0.063	0.083	0.31	6.05e-05	0.66	1.28e-04	8.05	1.55e-03	0.0	0.0
63	15.836	0.063	0.083	3.79	7.29e-04	9.33	1.79e-03	65.64	1.26e-02	0.0	0.0
64	15.836	0.063	0.083	23.26	4.48e-03	0.19	3.75e-05	1.46	2.81e-04	0.0	0.0
65	15.869	0.063	0.083	34.14	6.57e-03	0.08	1.63e-05	0.04	7.18e-06	0.0	0.0
66	15.889	0.063	0.083	0.08	1.50e-05	0.06	1.09e-05	1.90	3.65e-04	0.0	0.0
67	15.898	0.063	0.083	0.58	1.12e-04	2.26e-04	0.0	2.61e-04	0.0	0.0	0.0
68	15.898	0.063	0.083	7.72e-03	1.49e-06	0.08	1.45e-05	2.18	4.20e-04	0.0	0.0
69	15.907	0.063	0.083	3.19	6.14e-04	0.01	1.93e-06	7.16e-03	1.38e-06	0.0	0.0
70	16.216	0.062	0.082	3045.41	0.6	31.42	6.05e-03	39.44	7.59e-03	0.0	0.0
71	16.577	0.060	0.082	1.16	2.24e-04	9.97	1.92e-03	3181.62	0.6	0.0	0.0
72	17.161	0.058	0.081	1.72	3.31e-04	439.76	8.46e-02	8271.65	1.6	0.0	0.0
73	18.143	0.055	0.080	0.01	2.67e-06	2421.42	0.5	1.239e+04	2.4	0.0	0.0
74	18.603	0.054	0.080	3.47	6.67e-04	0.07	1.39e-05	194.89	3.75e-02	0.0	0.0
75	18.852	0.053	0.079	1275.39	0.2	74.03	1.42e-02	67.82	1.30e-02	0.0	0.0
76	19.064	0.052	0.079	1.05	2.01e-04	1056.86	0.2	9648.20	1.9	0.0	0.0
77	19.826	0.050	0.079	14.02	2.70e-03	1556.33	0.3	537.34	0.1	0.0	0.0
78	20.218	0.049	0.078	2.68	5.16e-04	117.44	2.26e-02	392.89	7.56e-02	0.0	0.0
79	20.581	0.049	0.078	341.87	6.58e-02	17.58	3.38e-03	33.41	6.43e-03	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
80	21.268	0.047	0.078	2.39	4.60e-04	146.82	2.82e-02	830.84	0.2	0.0	0.0
81	22.511	0.044	0.077	6.43	1.24e-03	215.87	4.15e-02	156.04	3.00e-02	0.0	0.0
82	22.943	0.044	0.077	0.19	3.61e-05	137.66	2.65e-02	296.99	5.71e-02	0.0	0.0
83	23.242	0.043	0.076	0.06	1.12e-05	0.39	7.54e-05	23.79	4.58e-03	0.0	0.0
84	23.412	0.043	0.076	0.11	2.18e-05	3.56e-03	0.0	101.17	1.95e-02	0.0	0.0
85	23.653	0.042	0.076	10.43	2.01e-03	1654.81	0.3	275.63	5.30e-02	0.0	0.0
86	24.096	0.042	0.076	544.62	0.1	15.16	2.92e-03	21.61	4.16e-03	0.0	0.0
87	24.234	0.041	0.076	0.18	3.42e-05	8.10	1.56e-03	30.82	5.93e-03	0.0	0.0
88	25.375	0.039	0.075	78.33	1.51e-02	104.53	2.01e-02	9.23	1.78e-03	0.0	0.0
89	26.469	0.038	0.075	121.01	2.33e-02	18.50	3.56e-03	7.73	1.49e-03	0.0	0.0
90	27.541	0.036	0.074	66.63	1.28e-02	1437.68	0.3	583.23	0.1	0.0	0.0
91	28.329	0.035	0.074	246.44	4.74e-02	159.18	3.06e-02	82.92	1.60e-02	0.0	0.0
92	28.558	0.035	0.074	0.88	1.70e-04	3.60	6.92e-04	1.97	3.79e-04	0.0	0.0
93	28.688	0.035	0.074	0.01	2.19e-06	182.46	3.51e-02	124.89	2.40e-02	0.0	0.0
94	29.003	0.034	0.074	0.02	4.43e-06	5.38e-03	1.04e-06	0.97	1.87e-04	0.0	0.0
95	29.618	0.034	0.073	63.07	1.21e-02	19.65	3.78e-03	58.46	1.12e-02	0.0	0.0
96	30.217	0.033	0.073	392.70	7.56e-02	16.70	3.21e-03	35.25	6.78e-03	0.0	0.0
97	30.462	0.033	0.073	0.69	1.32e-04	236.35	4.55e-02	109.92	2.11e-02	0.0	0.0
98	31.105	0.032	0.073	194.55	3.74e-02	40.72	7.83e-03	17.73	3.41e-03	0.0	0.0
99	31.454	0.032	0.073	152.32	2.93e-02	31.34	6.03e-03	10.99	2.12e-03	0.0	0.0
100	31.806	0.031	0.073	194.44	3.74e-02	31.14	5.99e-03	11.36	2.19e-03	0.0	0.0
101	32.091	0.031	0.073	219.25	4.22e-02	11.42	2.20e-03	0.15	2.82e-05	0.0	0.0
102	32.432	0.031	0.073	21.85	4.20e-03	18.95	3.65e-03	0.55	1.06e-04	0.0	0.0
103	32.609	0.031	0.072	35.57	6.84e-03	2.25	4.32e-04	10.65	2.05e-03	0.0	0.0
104	33.206	0.030	0.072	39.54	7.61e-03	341.04	6.56e-02	6.86	1.32e-03	0.0	0.0
105	33.409	0.030	0.072	25.52	4.91e-03	100.81	1.94e-02	4.72	9.08e-04	0.0	0.0
106	33.545	0.030	0.072	2.99e-03	0.0	1.42e-03	0.0	3.24	6.24e-04	0.0	0.0
107	33.587	0.030	0.072	14.37	2.77e-03	26.36	5.07e-03	1.41	2.71e-04	0.0	0.0
108	33.820	0.030	0.072	17.64	3.39e-03	0.21	4.00e-05	0.10	1.87e-05	0.0	0.0
109	34.362	0.029	0.072	8.99	1.73e-03	18.93	3.64e-03	4.54	8.73e-04	0.0	0.0
110	35.076	0.029	0.072	0.36	6.86e-05	14.54	2.80e-03	10.15	1.95e-03	0.0	0.0
111	35.566	0.028	0.072	42.68	8.21e-03	7.30	1.40e-03	41.02	7.89e-03	0.0	0.0
112	35.995	0.028	0.072	222.15	4.27e-02	3.22	6.19e-04	23.62	4.54e-03	0.0	0.0
113	36.205	0.028	0.072	0.79	1.52e-04	3.19	6.13e-04	0.04	8.23e-06	0.0	0.0
114	37.063	0.027	0.071	120.66	2.32e-02	12.02	2.31e-03	4.45	8.57e-04	0.0	0.0
115	37.760	0.026	0.071	6.95e-04	0.0	4.54e-03	0.0	1.91	3.68e-04	0.0	0.0
116	38.028	0.026	0.071	0.50	9.64e-05	4.42	8.51e-04	39.89	7.68e-03	0.0	0.0
117	38.621	0.026	0.071	518.84	9.98e-02	46.02	8.85e-03	23.26	4.48e-03	0.0	0.0
118	39.607	0.025	0.071	0.62	1.19e-04	219.22	4.22e-02	13.88	2.67e-03	0.0	0.0
119	40.475	0.025	0.071	16.80	3.23e-03	64.30	1.24e-02	1.94	3.72e-04	0.0	0.0
120	41.427	0.024	0.070	12.51	2.41e-03	0.32	6.06e-05	29.25	5.63e-03	0.0	0.0
121	41.785	0.024	0.070	122.64	2.36e-02	67.98	1.31e-02	21.65	4.17e-03	0.0	0.0
122	43.313	0.023	0.070	0.16	3.07e-05	1.77	3.40e-04	28.06	5.40e-03	0.0	0.0
123	43.716	0.023	0.070	1.04	2.01e-04	9.23	1.78e-03	1.01	1.93e-04	0.0	0.0
124	43.757	0.023	0.070	2.56	4.92e-04	0.34	6.52e-05	6.53e-03	1.26e-06	0.0	0.0
125	44.841	0.022	0.070	2.65	5.10e-04	14.54	2.80e-03	13.67	2.63e-03	0.0	0.0
126	45.114	0.022	0.070	2.73	5.26e-04	0.26	5.09e-05	2.45	4.72e-04	0.0	0.0
127	45.603	0.022	0.070	0.99	1.91e-04	0.28	5.34e-05	20.59	3.96e-03	0.0	0.0
128	46.311	0.022	0.070	0.21	3.96e-05	44.19	8.50e-03	12.01	2.31e-03	0.0	0.0
129	46.575	0.021	0.070	1.22	2.35e-04	13.08	2.52e-03	5.09	9.79e-04	0.0	0.0
130	47.215	0.021	0.069	40.22	7.74e-03	14.02	2.70e-03	0.06	1.13e-05	0.0	0.0
Risulta				5.192e+05		5.195e+05		5.195e+05			
In percentuale				99.89		99.95		99.96			

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.111 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.337 sec.
			fattore q: 1.500
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.687
			classe di duttilità CD: ND
			numero di modi considerati: 130

CDC	Tipo	Sigla Id	Note
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
680.00	9340.85	950.00	1080.00	0.0	0.0	950.00	1080.00	0.958	0.0	0.0
666.67	204.07	950.00	1040.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.33	176.29	950.00	1000.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.00	551.85	950.00	1003.65	0.0	6.00	950.00	1020.00	2.988	0.0	0.003
626.67	204.07	950.00	920.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.33	176.29	950.00	880.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	1031.85	950.00	947.08	0.0	12.00	950.00	960.00	2.953	0.0	0.001
586.67	204.07	950.00	800.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.33	1.913e+04	950.00	760.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
560.00	1511.85	950.00	888.33	0.0	18.00	950.00	900.00	2.896	0.0	6.8246e-04
546.67	204.07	950.00	680.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.33	176.29	950.00	640.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
520.00	1991.85	950.00	828.98	0.0	24.00	950.00	840.00	2.820	0.0	4.8342e-04
506.67	204.07	950.00	560.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.33	176.29	950.00	520.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.00	7.328e+04	950.00	1069.52	0.0	30.00	950.00	981.73	2.733	0.0	0.005
466.67	1.920e+04	950.00	440.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
453.33	176.29	950.00	400.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	3491.85	950.00	766.92	0.0	36.00	950.00	946.05	2.623	0.0	0.009
426.67	204.07	950.00	320.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.33	176.29	950.00	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.00	3971.85	950.00	708.32	0.0	42.00	950.00	908.32	2.510	0.0	0.008
386.67	204.07	950.00	200.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
373.33	176.29	950.00	160.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.00	2.233e+04	950.00	225.53	0.0	48.00	950.00	143.90	2.391	0.0	0.015
346.67	5172.52	950.00	80.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.33	5053.08	950.00	40.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	1.747e+05	950.00	1439.29	0.0	95.00	950.00	1886.03	1.663	0.0	0.332
280.00	9610.00	950.00	812.20	0.0	93.00	950.00	158.39	1.532	0.0	0.045
270.00	1.004e+05	1538.20	2124.03	0.0	21.15	993.48	1900.00	1.1525e-05	1.899	72.172
240.00	1.300e+04	950.00	1096.18	0.0	95.00	950.00	1886.03	1.520	0.0	0.586
200.00	1.192e+04	989.57	1039.53	0.0	95.00	1141.94	1868.06	1.463	0.162	0.454
160.00	1.035e+04	1041.15	928.05	0.0	95.00	1141.94	1868.06	1.463	0.107	0.515
120.00	1.103e+04	1035.53	988.06	0.0	95.00	1141.93	1885.74	1.463	0.113	0.737
80.00	1.002e+04	1042.90	1021.03	0.0	95.00	1170.99	1872.49	1.450	0.137	0.572
40.00	1.004e+04	1040.42	1023.11	0.0	95.00	1141.93	1885.74	1.463	0.108	0.708
Risulta	5.198e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.998	0.501	0.103	1.84	3.51e-04	7.479e+04	14.4	9.77	1.88e-03	0.0	0.0
2	2.969	0.337	0.111	1.429e+05	27.3	108.49	2.09e-02	4.87	9.37e-04	0.0	0.0
3	4.069	0.246	0.111	881.60	0.2	9.047e+04	17.4	3.812e+04	7.3	0.0	0.0
4	4.186	0.239	0.111	37.30	7.13e-03	572.91	0.1	562.84	0.1	0.0	0.0
5	4.281	0.234	0.111	5.507e+04	10.5	144.69	2.78e-02	142.83	2.75e-02	0.0	0.0
6	4.296	0.233	0.111	8.178e+04	15.6	402.56	7.75e-02	248.99	4.79e-02	0.0	0.0
7	4.327	0.231	0.111	0.29	5.50e-05	0.08	1.63e-05	3.63	6.99e-04	0.0	0.0
8	4.336	0.231	0.111	5.959e+04	11.4	29.33	5.64e-03	216.24	4.16e-02	0.0	0.0
9	4.338	0.231	0.111	3016.97	0.6	60.08	1.16e-02	2542.80	0.5	0.0	0.0
10	4.365	0.229	0.111	1.329e+04	2.5	67.21	1.29e-02	11.97	2.30e-03	0.0	0.0
11	4.379	0.228	0.111	0.02	4.13e-06	0.05	9.54e-06	2.15	4.14e-04	0.0	0.0
12	4.388	0.228	0.111	63.69	1.22e-02	3.73	7.18e-04	0.40	7.79e-05	0.0	0.0
13	4.392	0.228	0.111	3.33e-05	0.0	1.24e-03	0.0	0.05	9.74e-06	0.0	0.0
14	4.395	0.228	0.111	0.32	6.16e-05	0.20	3.92e-05	0.02	3.12e-06	0.0	0.0
15	4.396	0.227	0.111	4.92e-04	0.0	1.25e-03	0.0	0.04	8.48e-06	0.0	0.0
16	4.397	0.227	0.111	1.59	3.05e-04	0.02	4.52e-06	1.17e-03	0.0	0.0	0.0
17	4.398	0.227	0.111	2.54e-05	0.0	3.34e-04	0.0	4.66e-03	0.0	0.0	0.0
18	4.399	0.227	0.111	0.97	1.85e-04	2.97e-03	0.0	9.39e-05	0.0	0.0	0.0
19	4.399	0.227	0.111	8.56e-05	0.0	4.48e-05	0.0	3.50e-04	0.0	0.0	0.0
20	4.406	0.227	0.111	5.098e+04	9.7	0.97	1.86e-04	1.29	2.48e-04	0.0	0.0
21	4.428	0.226	0.111	17.26	3.30e-03	6.92	1.33e-03	819.06	0.2	0.0	0.0
22	4.428	0.226	0.111	916.06	0.2	4.89	9.40e-04	37.92	7.30e-03	0.0	0.0



Modo	Frequenza	Periodo	Acc. Spetttrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
23	4.431	0.226	0.111	19.44	3.72e-03	34.88	6.71e-03	160.67	3.09e-02	0.0	0.0
24	4.440	0.225	0.111	310.20	5.93e-02	10.77	2.07e-03	0.38	7.37e-05	0.0	0.0
25	4.440	0.225	0.111	7.22	1.38e-03	92.20	1.77e-02	219.87	4.23e-02	0.0	0.0
26	4.446	0.225	0.111	2433.31	0.5	8.91e-03	1.71e-06	0.08	1.54e-05	0.0	0.0
27	4.448	0.225	0.111	0.24	4.65e-05	8.93	1.72e-03	20.70	3.98e-03	0.0	0.0
28	4.456	0.224	0.111	108.85	2.08e-02	3.42e-03	0.0	1.92e-04	0.0	0.0	0.0
29	4.457	0.224	0.111	0.05	8.84e-06	0.30	5.84e-05	13.94	2.68e-03	0.0	0.0
30	4.457	0.224	0.111	6.00	1.15e-03	0.14	2.75e-05	1.08e-03	0.0	0.0	0.0
31	4.791	0.209	0.111	1.424e+04	2.7	1.828e+05	35.2	1.266e+04	2.4	0.0	0.0
32	5.273	0.190	0.111	9181.30	1.8	3.486e+04	6.7	6727.20	1.3	0.0	0.0
33	5.931	0.169	0.111	6664.86	1.3	754.14	0.1	966.68	0.2	0.0	0.0
34	7.113	0.141	0.107	8002.14	1.5	7.206e+04	13.9	4.188e+04	8.1	0.0	0.0
35	7.506	0.133	0.105	1392.39	0.3	7057.42	1.4	1.896e+05	36.5	0.0	0.0
36	7.819	0.128	0.103	2.02	3.87e-04	122.49	2.36e-02	6349.91	1.2	0.0	0.0
37	8.005	0.125	0.102	1.875e+04	3.6	1059.87	0.2	56.52	1.09e-02	0.0	0.0
38	8.410	0.119	0.100	2.967e+04	5.7	1.423e+04	2.7	639.46	0.1	0.0	0.0
39	9.529	0.105	0.096	219.92	4.21e-02	517.56	9.96e-02	2040.38	0.4	0.0	0.0
40	10.378	0.096	0.093	3031.72	0.6	499.29	9.61e-02	0.03	5.15e-06	0.0	0.0
41	10.530	0.095	0.093	813.68	0.2	182.94	3.52e-02	9264.90	1.8	0.0	0.0
42	10.800	0.093	0.092	0.17	3.25e-05	0.95	1.83e-04	4.10	7.90e-04	0.0	0.0
43	11.021	0.091	0.091	401.36	7.68e-02	2.292e+04	4.4	4.471e+04	8.6	0.0	0.0
44	12.247	0.082	0.088	87.56	1.67e-02	39.81	7.66e-03	2.752e+04	5.3	0.0	0.0
45	12.399	0.081	0.088	2813.45	0.5	2650.60	0.5	4190.83	0.8	0.0	0.0
46	12.523	0.080	0.088	0.77	1.47e-04	86.87	1.67e-02	1.022e+04	2.0	0.0	0.0
47	12.577	0.080	0.088	371.12	7.10e-02	677.78	0.1	2911.04	0.6	0.0	0.0
48	13.032	0.077	0.087	0.49	9.42e-05	13.21	2.54e-03	8459.90	1.6	0.0	0.0
49	13.262	0.075	0.087	1.17e-03	0.0	1.75	3.37e-04	2.292e+04	4.4	0.0	0.0
50	13.265	0.075	0.086	0.26	4.89e-05	209.22	4.03e-02	4.307e+04	8.3	0.0	0.0
51	13.574	0.074	0.086	5126.31	1.0	15.74	3.03e-03	64.60	1.24e-02	0.0	0.0
52	13.981	0.072	0.085	3.49	6.68e-04	3.01	5.80e-04	836.39	0.2	0.0	0.0
53	14.695	0.068	0.084	0.03	4.94e-06	945.15	0.2	955.57	0.2	0.0	0.0
54	15.172	0.066	0.084	5.99	1.15e-03	2.29	4.40e-04	1431.32	0.3	0.0	0.0
55	15.292	0.065	0.083	2139.96	0.4	58.56	1.13e-02	47.34	9.11e-03	0.0	0.0
56	15.438	0.065	0.083	0.01	1.98e-06	0.90	1.74e-04	1017.88	0.2	0.0	0.0
57	15.453	0.065	0.083	46.86	8.96e-03	49.93	9.61e-03	221.45	4.26e-02	0.0	0.0
58	15.457	0.065	0.083	65.10	1.25e-02	10.36	1.99e-03	47.99	9.23e-03	0.0	0.0
59	15.784	0.063	0.083	1.06	2.02e-04	17.39	3.34e-03	87.27	1.68e-02	0.0	0.0
60	15.794	0.063	0.083	11.08	2.12e-03	0.05	8.87e-06	0.04	8.42e-06	0.0	0.0
61	15.814	0.063	0.083	86.16	1.65e-02	2.15	4.13e-04	0.65	1.25e-04	0.0	0.0
62	15.816	0.063	0.083	15.11	2.89e-03	6.06e-03	1.17e-06	9.15	1.76e-03	0.0	0.0
63	15.836	0.063	0.083	0.01	2.41e-06	7.51	1.44e-03	59.07	1.14e-02	0.0	0.0
64	15.838	0.063	0.083	0.33	6.24e-05	4.29e-03	0.0	1.23	2.36e-04	0.0	0.0
65	15.889	0.063	0.083	0.03	5.87e-06	0.05	8.79e-06	2.19	4.22e-04	0.0	0.0
66	15.897	0.063	0.083	5.71	1.09e-03	0.15	2.86e-05	0.02	3.26e-06	0.0	0.0
67	15.898	0.063	0.083	3.95e-03	0.0	0.10	1.85e-05	2.31	4.45e-04	0.0	0.0
68	15.901	0.063	0.083	13.34	2.55e-03	0.46	8.86e-05	0.04	7.35e-06	0.0	0.0
69	15.923	0.063	0.083	55.95	1.07e-02	2.14	4.12e-04	0.23	4.39e-05	0.0	0.0
70	16.586	0.060	0.082	20.33	3.89e-03	40.47	7.79e-03	3936.87	0.8	0.0	0.0
71	16.904	0.059	0.081	2862.04	0.5	67.49	1.30e-02	70.07	1.35e-02	0.0	0.0
72	17.243	0.058	0.081	47.06	9.00e-03	340.39	6.55e-02	6520.81	1.3	0.0	0.0
73	18.497	0.054	0.080	0.49	9.38e-05	3242.80	0.6	2.185e+04	4.2	0.0	0.0
74	18.604	0.054	0.080	2.50e-03	0.0	0.75	1.44e-04	157.79	3.04e-02	0.0	0.0
75	19.357	0.052	0.079	864.76	0.2	33.66	6.48e-03	206.85	3.98e-02	0.0	0.0
76	20.151	0.050	0.078	9.13	1.75e-03	997.41	0.2	1090.53	0.2	0.0	0.0
77	20.172	0.050	0.078	2.81	5.37e-04	256.63	4.94e-02	916.63	0.2	0.0	0.0
78	20.857	0.048	0.078	1.95	3.74e-04	21.67	4.17e-03	54.23	1.04e-02	0.0	0.0
79	22.279	0.045	0.077	17.27	3.30e-03	745.88	0.1	803.91	0.2	0.0	0.0
80	22.861	0.044	0.077	33.90	6.48e-03	390.78	7.52e-02	52.34	1.01e-02	0.0	0.0
81	23.242	0.043	0.076	1.25	2.39e-04	0.17	3.30e-05	23.22	4.47e-03	0.0	0.0
82	23.309	0.043	0.076	719.63	0.1	3.62	6.96e-04	0.45	8.63e-05	0.0	0.0
83	23.412	0.043	0.076	0.11	2.20e-05	8.26e-03	1.59e-06	102.53	1.97e-02	0.0	0.0
84	24.453	0.041	0.076	0.42	8.00e-05	1165.95	0.2	179.64	3.46e-02	0.0	0.0
85	25.490	0.039	0.075	178.26	3.41e-02	191.78	3.69e-02	29.24	5.63e-03	0.0	0.0
86	26.124	0.038	0.075	0.47	8.90e-05	22.01	4.24e-03	51.85	9.98e-03	0.0	0.0
87	27.333	0.037	0.074	304.02	5.81e-02	1356.93	0.3	362.47	6.97e-02	0.0	0.0
88	27.668	0.036	0.074	235.20	4.50e-02	2.57	4.94e-04	1.47e-04	0.0	0.0	0.0
89	28.341	0.035	0.074	112.91	2.16e-02	417.15	8.03e-02	504.41	9.70e-02	0.0	0.0
90	28.552	0.035	0.074	191.79	3.67e-02	81.23	1.56e-02	104.44	2.01e-02	0.0	0.0
91	29.003	0.034	0.074	8.97e-03	1.72e-06	0.04	7.54e-06	1.06	2.04e-04	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
92	29.386	0.034	0.074	18.36	3.51e-03	8.34	1.61e-03	1.31	2.52e-04	0.0	0.0
93	29.428	0.034	0.074	123.62	2.36e-02	8.92	1.72e-03	0.27	5.16e-05	0.0	0.0
94	29.515	0.034	0.073	30.59	5.85e-03	335.56	6.46e-02	0.80	1.54e-04	0.0	0.0
95	30.356	0.033	0.073	5.16	9.87e-04	23.30	4.48e-03	30.69	5.90e-03	0.0	0.0
96	31.291	0.032	0.073	29.30	5.60e-03	7.46	1.43e-03	72.08	1.39e-02	0.0	0.0
97	31.475	0.032	0.073	41.58	7.95e-03	23.99	4.61e-03	2.75	5.30e-04	0.0	0.0
98	31.869	0.031	0.073	150.06	2.87e-02	25.29	4.87e-03	20.41	3.93e-03	0.0	0.0
99	32.062	0.031	0.073	230.65	4.41e-02	38.88	7.48e-03	3.07	5.92e-04	0.0	0.0
100	32.470	0.031	0.073	0.60	1.15e-04	3.49	6.72e-04	14.62	2.81e-03	0.0	0.0
101	32.928	0.030	0.072	30.93	5.92e-03	121.92	2.35e-02	3.24	6.23e-04	0.0	0.0
102	33.004	0.030	0.072	216.60	4.14e-02	44.59	8.58e-03	4.25	8.19e-04	0.0	0.0
103	33.211	0.030	0.072	8.26	1.58e-03	185.22	3.56e-02	5.75	1.11e-03	0.0	0.0
104	33.545	0.030	0.072	1.99e-03	0.0	3.42e-03	0.0	3.21	6.18e-04	0.0	0.0
105	33.650	0.030	0.072	36.77	7.03e-03	0.53	1.03e-04	0.14	2.64e-05	0.0	0.0
106	34.025	0.029	0.072	0.45	8.53e-05	56.90	1.09e-02	0.05	1.03e-05	0.0	0.0
107	34.434	0.029	0.072	35.38	6.77e-03	21.86	4.21e-03	3.61	6.94e-04	0.0	0.0
108	35.247	0.028	0.072	3.27	6.26e-04	20.08	3.86e-03	8.16	1.57e-03	0.0	0.0
109	35.932	0.028	0.072	0.32	6.15e-05	42.10	8.10e-03	38.00	7.31e-03	0.0	0.0
110	36.129	0.028	0.072	159.74	3.06e-02	0.06	1.09e-05	1.65	3.17e-04	0.0	0.0
111	36.385	0.027	0.071	1.21	2.31e-04	53.75	1.03e-02	1.00	1.93e-04	0.0	0.0
112	37.760	0.026	0.071	8.36e-04	0.0	7.09e-03	1.36e-06	1.94	3.73e-04	0.0	0.0
113	37.929	0.026	0.071	403.52	7.72e-02	40.21	7.74e-03	12.95	2.49e-03	0.0	0.0
114	38.082	0.026	0.071	210.43	4.02e-02	5.32	1.02e-03	13.06	2.51e-03	0.0	0.0
115	38.699	0.026	0.071	26.92	5.15e-03	154.64	2.98e-02	19.20	3.69e-03	0.0	0.0
116	40.221	0.025	0.071	44.88	8.58e-03	2.75	5.30e-04	2.65	5.11e-04	0.0	0.0
117	41.129	0.024	0.070	24.58	4.70e-03	32.65	6.28e-03	15.03	2.89e-03	0.0	0.0
118	41.635	0.024	0.070	0.03	5.02e-06	6.36	1.22e-03	57.08	1.10e-02	0.0	0.0
119	41.733	0.024	0.070	113.59	2.17e-02	44.01	8.47e-03	37.11	7.14e-03	0.0	0.0
120	42.397	0.024	0.070	9.34	1.79e-03	20.85	4.01e-03	12.33	2.37e-03	0.0	0.0
121	43.310	0.023	0.070	9.65	1.85e-03	6.04	1.16e-03	4.90	9.42e-04	0.0	0.0
122	43.819	0.023	0.070	0.49	9.41e-05	2.40	4.61e-04	0.05	9.60e-06	0.0	0.0
123	43.882	0.023	0.070	0.46	8.73e-05	8.22	1.58e-03	0.73	1.41e-04	0.0	0.0
124	44.474	0.022	0.070	16.94	3.24e-03	4.82	9.28e-04	5.47	1.05e-03	0.0	0.0
125	45.233	0.022	0.070	1.52	2.91e-04	0.56	1.08e-04	0.91	1.75e-04	0.0	0.0
126	45.570	0.022	0.070	18.57	3.55e-03	0.63	1.22e-04	12.02	2.31e-03	0.0	0.0
127	45.874	0.022	0.070	14.03	2.68e-03	15.40	2.96e-03	17.96	3.46e-03	0.0	0.0
128	46.661	0.021	0.070	5.62	1.08e-03	0.88	1.69e-04	0.01	2.72e-06	0.0	0.0
129	47.056	0.021	0.070	58.06	1.11e-02	36.20	6.96e-03	0.09	1.78e-05	0.0	0.0
130	48.369	0.021	0.069	2.42	4.63e-04	1.61	3.10e-04	2.70e-03	0.0	0.0	0.0
Risulta				5.223e+05		5.195e+05		5.195e+05			
In percentuale				99.90		99.94		99.96			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.111 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.216 sec.
			fattore q: 1.500
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 2.072
			classe di duttilità CD: ND
			numero di modi considerati:130
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
680.00	9340.85	950.00	1080.00	95.00	0.0	950.00	1080.00	0.958	0.0	0.0
666.67	204.07	950.00	1040.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
653.33	176.29	950.00	1000.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
640.00	551.85	950.00	1003.65	95.00	0.0	950.00	1020.00	2.988	0.0	0.003
626.67	204.07	950.00	920.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
613.33	176.29	950.00	880.00	95.00	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	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
600.00	1031.85	950.00	947.08	95.00	0.0	950.00	960.00	2.953	0.0	0.001
586.67	204.07	950.00	800.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
573.33	1.913e+04	950.00	760.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
560.00	1511.85	950.00	888.33	95.00	0.0	950.00	900.00	2.896	0.0	6.8246e-04
546.67	204.07	950.00	680.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
533.33	176.29	950.00	640.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
520.00	1991.85	950.00	828.98	95.00	0.0	950.00	840.00	2.820	0.0	4.8342e-04
506.67	204.07	950.00	560.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
493.33	176.29	950.00	520.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
480.00	7.328e+04	950.00	1069.52	95.00	0.0	950.00	981.73	2.733	0.0	0.005
466.67	1.920e+04	950.00	440.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
453.33	176.29	950.00	400.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
440.00	3491.85	950.00	766.92	95.00	0.0	950.00	946.05	2.623	0.0	0.009
426.67	204.07	950.00	320.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
413.33	176.29	950.00	280.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
400.00	3971.85	950.00	708.32	95.00	0.0	950.00	908.32	2.510	0.0	0.008
386.67	204.07	950.00	200.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
373.33	176.29	950.00	160.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
360.00	2.233e+04	950.00	225.53	95.00	0.0	950.00	143.90	2.391	0.0	0.015
346.67	5172.52	950.00	80.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
333.33	5053.08	950.00	40.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
320.00	1.747e+05	950.00	1439.29	95.00	0.0	950.00	1886.03	1.663	0.0	0.332
280.00	9610.00	950.00	812.20	95.00	0.0	950.00	158.39	1.532	0.0	0.045
270.00	1.004e+05	1538.20	2124.03	156.95	0.0	993.48	1900.00	1.1525e-05	1.899	72.172
240.00	1.300e+04	950.00	1096.18	95.00	0.0	950.00	1886.03	1.520	0.0	0.586
200.00	1.192e+04	989.57	1039.53	95.00	0.0	1141.94	1868.06	1.463	0.162	0.454
160.00	1.035e+04	1041.15	928.05	95.00	0.0	1141.94	1868.06	1.463	0.107	0.515
120.00	1.103e+04	1035.53	988.06	95.00	0.0	1141.93	1885.74	1.463	0.113	0.737
80.00	1.002e+04	1042.90	1021.03	95.00	0.0	1170.99	1872.49	1.450	0.137	0.572
40.00	1.004e+04	1040.42	1023.11	95.00	0.0	1141.93	1885.74	1.463	0.108	0.708
Risulta	5.198e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.997	0.501	0.103	3.62	6.96e-04	7.528e+04	14.5	9.73	1.87e-03	0.0	0.0
2	2.965	0.337	0.111	1.411e+05	27.2	372.98	7.18e-02	7.42	1.43e-03	0.0	0.0
3	4.032	0.248	0.111	2785.32	0.5	1.157e+05	22.3	3.127e+04	6.0	0.0	0.0
4	4.185	0.239	0.111	106.51	2.05e-02	386.95	7.44e-02	246.50	4.74e-02	0.0	0.0
5	4.265	0.234	0.111	5130.18	1.0	138.97	2.67e-02	246.03	4.73e-02	0.0	0.0
6	4.285	0.233	0.111	5943.23	1.1	55.02	1.06e-02	190.02	3.66e-02	0.0	0.0
7	4.321	0.231	0.111	1.098e+05	21.1	2404.44	0.5	5864.50	1.1	0.0	0.0
8	4.327	0.231	0.111	14.21	2.73e-03	0.03	5.87e-06	4.69	9.02e-04	0.0	0.0
9	4.363	0.229	0.111	1083.38	0.2	188.48	3.63e-02	626.80	0.1	0.0	0.0
10	4.379	0.228	0.111	0.26	5.05e-05	1.77e-04	0.0	3.59	6.91e-04	0.0	0.0
11	4.382	0.228	0.111	3224.02	0.6	9.46	1.82e-03	557.70	0.1	0.0	0.0
12	4.387	0.228	0.111	709.35	0.1	66.03	1.27e-02	302.68	5.82e-02	0.0	0.0
13	4.387	0.228	0.111	128.17	2.47e-02	0.04	8.20e-06	163.25	3.14e-02	0.0	0.0
14	4.392	0.228	0.111	7.85e-03	1.51e-06	1.89e-04	0.0	0.12	2.37e-05	0.0	0.0
15	4.395	0.228	0.111	160.01	3.08e-02	3.70	7.11e-04	4.44	8.55e-04	0.0	0.0
16	4.396	0.227	0.111	0.03	6.52e-06	1.95e-03	0.0	0.10	2.01e-05	0.0	0.0
17	4.397	0.227	0.111	92.02	1.77e-02	2.93	5.63e-04	1.02	1.96e-04	0.0	0.0
18	4.398	0.227	0.111	0.01	2.07e-06	3.19e-04	0.0	0.01	2.54e-06	0.0	0.0
19	4.399	0.227	0.111	6.99	1.34e-03	0.19	3.58e-05	0.04	7.10e-06	0.0	0.0
20	4.399	0.227	0.111	1.36e-04	0.0	1.84e-04	0.0	9.08e-04	0.0	0.0	0.0
21	4.403	0.227	0.111	6.590e+04	12.7	2324.72	0.4	94.99	1.83e-02	0.0	0.0
22	4.406	0.227	0.111	152.93	2.94e-02	284.83	5.48e-02	2148.51	0.4	0.0	0.0
23	4.428	0.226	0.111	527.06	0.1	58.42	1.12e-02	2.79	5.36e-04	0.0	0.0
24	4.436	0.225	0.111	1.627e+04	3.1	930.44	0.2	27.03	5.20e-03	0.0	0.0
25	4.447	0.225	0.111	1.471e+04	2.8	397.46	7.65e-02	93.03	1.79e-02	0.0	0.0
26	4.458	0.224	0.111	59.53	1.15e-02	32.27	6.21e-03	26.78	5.15e-03	0.0	0.0
27	4.462	0.224	0.111	597.13	0.1	26.37	5.07e-03	3.13e-03	0.0	0.0	0.0
28	4.472	0.224	0.111	1583.72	0.3	8.97	1.73e-03	562.75	0.1	0.0	0.0
29	4.488	0.223	0.111	33.24	6.40e-03	0.14	2.75e-05	23.53	4.53e-03	0.0	0.0
30	4.498	0.222	0.111	309.55	5.96e-02	3.01	5.79e-04	373.92	7.19e-02	0.0	0.0
31	4.629	0.216	0.111	5.662e+04	10.9	1.437e+05	27.6	1.124e+04	2.2	0.0	0.0
32	5.324	0.188	0.111	5211.48	1.0	4.275e+04	8.2	8505.09	1.6	0.0	0.0
33	5.780	0.173	0.111	4503.95	0.9	4.73	9.11e-04	1786.95	0.3	0.0	0.0
34	7.248	0.138	0.106	9554.32	1.8	5.613e+04	10.8	6.768e+04	13.0	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
35	7.520	0.133	0.105	3094.73	0.6	1.140e+04	2.2	1.633e+05	31.4	0.0	0.0
36	7.819	0.128	0.103	8.64e-03	1.66e-06	157.34	3.03e-02	6208.10	1.2	0.0	0.0
37	8.053	0.124	0.102	1.223e+04	2.4	6754.50	1.3	93.54	1.80e-02	0.0	0.0
38	8.386	0.119	0.100	3.440e+04	6.6	1.953e+04	3.8	891.41	0.2	0.0	0.0
39	9.047	0.111	0.098	1806.90	0.3	6.32	1.22e-03	21.72	4.18e-03	0.0	0.0
40	9.988	0.100	0.094	2223.56	0.4	454.51	8.74e-02	3080.45	0.6	0.0	0.0
41	10.363	0.096	0.093	417.32	8.03e-02	0.50	9.57e-05	3337.60	0.6	0.0	0.0
42	11.028	0.091	0.091	159.00	3.06e-02	2.059e+04	4.0	4.811e+04	9.3	0.0	0.0
43	11.605	0.086	0.090	307.28	5.91e-02	6631.38	1.3	1728.26	0.3	0.0	0.0
44	12.221	0.082	0.089	1580.38	0.3	115.98	2.23e-02	3022.72	0.6	0.0	0.0
45	12.260	0.082	0.088	426.88	8.21e-02	86.23	1.66e-02	2.850e+04	5.5	0.0	0.0
46	12.551	0.080	0.088	1.44	2.76e-04	77.53	1.49e-02	8.55	1.64e-03	0.0	0.0
47	12.666	0.079	0.088	313.76	6.04e-02	20.29	3.90e-03	1.683e+04	3.2	0.0	0.0
48	13.032	0.077	0.087	2.80	5.39e-04	5.66	1.09e-03	8961.87	1.7	0.0	0.0
49	13.259	0.075	0.087	339.75	6.54e-02	153.22	2.95e-02	4.583e+04	8.8	0.0	0.0
50	13.262	0.075	0.087	18.81	3.62e-03	11.41	2.20e-03	1.269e+04	2.4	0.0	0.0
51	13.539	0.074	0.086	5512.04	1.1	52.77	1.02e-02	1394.71	0.3	0.0	0.0
52	13.981	0.072	0.085	4.27	8.22e-04	1.71	3.29e-04	816.84	0.2	0.0	0.0
53	14.019	0.071	0.085	1.63	3.14e-04	952.60	0.2	2098.86	0.4	0.0	0.0
54	14.859	0.067	0.084	2090.46	0.4	68.13	1.31e-02	28.90	5.56e-03	0.0	0.0
55	15.172	0.066	0.084	0.76	1.47e-04	1.07	2.05e-04	1452.64	0.3	0.0	0.0
56	15.239	0.066	0.083	6.20	1.19e-03	18.32	3.52e-03	73.82	1.42e-02	0.0	0.0
57	15.438	0.065	0.083	0.03	5.04e-06	1.22	2.35e-04	1032.78	0.2	0.0	0.0
58	15.622	0.064	0.083	3.45	6.64e-04	3.15	6.05e-04	5.96	1.15e-03	0.0	0.0
59	15.652	0.064	0.083	0.95	1.84e-04	6.84	1.32e-03	42.16	8.11e-03	0.0	0.0
60	15.659	0.064	0.083	4.78	9.20e-04	60.40	1.16e-02	307.13	5.91e-02	0.0	0.0
61	15.710	0.064	0.083	0.05	9.54e-06	11.89	2.29e-03	0.37	7.16e-05	0.0	0.0
62	15.795	0.063	0.083	0.06	1.20e-05	3.39e-03	0.0	2.73	5.26e-04	0.0	0.0
63	15.838	0.063	0.083	5.18	9.96e-04	1.94e-05	0.0	16.36	3.15e-03	0.0	0.0
64	15.880	0.063	0.083	0.82	1.58e-04	0.64	1.23e-04	1.69	3.26e-04	0.0	0.0
65	15.907	0.063	0.083	2.85	5.48e-04	0.30	5.74e-05	1.02	1.96e-04	0.0	0.0
66	15.925	0.063	0.083	1.13	2.18e-04	0.11	2.06e-05	0.46	8.92e-05	0.0	0.0
67	15.946	0.063	0.083	1.23	2.37e-04	6.42	1.23e-03	66.25	1.27e-02	0.0	0.0
68	16.008	0.062	0.082	0.24	4.68e-05	0.41	7.81e-05	2.95	5.67e-04	0.0	0.0
69	16.035	0.062	0.082	1.73	3.33e-04	6.51	1.25e-03	56.48	1.09e-02	0.0	0.0
70	16.580	0.060	0.082	618.44	0.1	49.60	9.54e-03	3091.78	0.6	0.0	0.0
71	16.654	0.060	0.082	2343.51	0.5	15.70	3.02e-03	423.45	8.15e-02	0.0	0.0
72	17.279	0.058	0.081	1.62	3.13e-04	362.98	6.98e-02	7816.36	1.5	0.0	0.0
73	18.460	0.054	0.080	5.81	1.12e-03	3216.62	0.6	2.009e+04	3.9	0.0	0.0
74	18.604	0.054	0.080	0.17	3.21e-05	0.77	1.48e-04	149.61	2.88e-02	0.0	0.0
75	19.126	0.052	0.079	1046.24	0.2	25.26	4.86e-03	402.74	7.75e-02	0.0	0.0
76	19.914	0.050	0.079	0.03	5.08e-06	60.17	1.16e-02	2250.10	0.4	0.0	0.0
77	20.130	0.050	0.078	6.84	1.32e-03	1557.26	0.3	249.74	4.80e-02	0.0	0.0
78	20.308	0.049	0.078	0.22	4.24e-05	2.77	5.32e-04	143.14	2.75e-02	0.0	0.0
79	21.632	0.046	0.077	34.32	6.60e-03	625.46	0.1	883.64	0.2	0.0	0.0
80	21.997	0.045	0.077	530.22	0.1	70.70	1.36e-02	16.94	3.26e-03	0.0	0.0
81	22.835	0.044	0.077	0.27	5.25e-05	309.09	5.95e-02	63.82	1.23e-02	0.0	0.0
82	23.242	0.043	0.076	0.03	6.18e-06	0.20	3.90e-05	23.29	4.48e-03	0.0	0.0
83	23.412	0.043	0.076	0.07	1.35e-05	3.78e-03	0.0	102.10	1.96e-02	0.0	0.0
84	23.926	0.042	0.076	8.72	1.68e-03	1490.59	0.3	234.57	4.51e-02	0.0	0.0
85	24.941	0.040	0.075	0.05	9.84e-06	1.87e-03	0.0	93.88	1.81e-02	0.0	0.0
86	25.244	0.040	0.075	423.68	8.15e-02	34.12	6.56e-03	21.48	4.13e-03	0.0	0.0
87	26.427	0.038	0.075	2.74	5.27e-04	19.53	3.76e-03	29.72	5.72e-03	0.0	0.0
88	26.455	0.038	0.075	272.31	5.24e-02	13.52	2.60e-03	0.22	4.28e-05	0.0	0.0
89	27.512	0.036	0.074	40.45	7.78e-03	1451.99	0.3	496.50	9.55e-02	0.0	0.0
90	27.576	0.036	0.074	151.39	2.91e-02	434.56	8.36e-02	153.86	2.96e-02	0.0	0.0
91	28.515	0.035	0.074	171.18	3.29e-02	107.55	2.07e-02	117.12	2.25e-02	0.0	0.0
92	29.003	0.034	0.074	0.04	7.22e-06	0.04	7.92e-06	1.12	2.16e-04	0.0	0.0
93	29.129	0.034	0.074	40.51	7.79e-03	36.68	7.06e-03	22.60	4.35e-03	0.0	0.0
94	29.436	0.034	0.074	0.55	1.06e-04	22.08	4.25e-03	216.47	4.16e-02	0.0	0.0
95	30.279	0.033	0.073	19.34	3.72e-03	79.97	1.54e-02	13.77	2.65e-03	0.0	0.0
96	30.517	0.033	0.073	3.61	6.95e-04	3.77	7.26e-04	10.28	1.98e-03	0.0	0.0
97	30.956	0.032	0.073	225.87	4.35e-02	42.43	8.16e-03	26.58	5.11e-03	0.0	0.0
98	31.093	0.032	0.073	322.70	6.21e-02	12.31	2.37e-03	0.46	8.87e-05	0.0	0.0
99	31.338	0.032	0.073	110.11	2.12e-02	12.27	2.36e-03	34.29	6.60e-03	0.0	0.0
100	31.737	0.032	0.073	212.51	4.09e-02	9.53	1.83e-03	0.35	6.70e-05	0.0	0.0
101	32.251	0.031	0.073	29.58	5.69e-03	21.41	4.12e-03	15.48	2.98e-03	0.0	0.0
102	32.479	0.031	0.073	0.07	1.31e-05	9.39	1.81e-03	6.59	1.27e-03	0.0	0.0
103	33.029	0.030	0.072	118.65	2.28e-02	109.11	2.10e-02	0.33	6.37e-05	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
104	33.271	0.030	0.072	21.50	4.14e-03	68.85	1.32e-02	7.40	1.42e-03	0.0	0.0
105	33.530	0.030	0.072	0.76	1.46e-04	305.61	5.88e-02	1.56	3.00e-04	0.0	0.0
106	33.545	0.030	0.072	7.73e-04	0.0	0.04	8.11e-06	3.17	6.11e-04	0.0	0.0
107	34.978	0.029	0.072	5.93	1.14e-03	23.98	4.61e-03	18.24	3.51e-03	0.0	0.0
108	34.995	0.029	0.072	30.55	5.88e-03	1.61	3.10e-04	2.85	5.48e-04	0.0	0.0
109	35.706	0.028	0.072	1.13	2.18e-04	0.05	9.52e-06	9.59	1.85e-03	0.0	0.0
110	36.142	0.028	0.072	1.60	3.08e-04	0.55	1.06e-04	15.71	3.02e-03	0.0	0.0
111	36.904	0.027	0.071	436.89	8.41e-02	47.93	9.22e-03	26.25	5.05e-03	0.0	0.0
112	37.134	0.027	0.071	2.65	5.09e-04	73.57	1.42e-02	14.56	2.80e-03	0.0	0.0
113	37.384	0.027	0.071	136.08	2.62e-02	9.92	1.91e-03	0.03	6.01e-06	0.0	0.0
114	37.760	0.026	0.071	7.85e-04	0.0	5.02e-03	0.0	1.89	3.64e-04	0.0	0.0
115	37.877	0.026	0.071	3.46	6.66e-04	2.60	5.01e-04	3.30	6.34e-04	0.0	0.0
116	39.200	0.026	0.071	336.37	6.47e-02	2.87	5.53e-04	10.94	2.11e-03	0.0	0.0
117	40.144	0.025	0.071	0.92	1.77e-04	120.72	2.32e-02	12.85	2.47e-03	0.0	0.0
118	40.337	0.025	0.071	2.54	4.89e-04	1.09	2.09e-04	60.44	1.16e-02	0.0	0.0
119	41.507	0.024	0.070	0.10	1.90e-05	0.13	2.44e-05	20.78	4.00e-03	0.0	0.0
120	41.549	0.024	0.070	105.19	2.02e-02	120.09	2.31e-02	9.42	1.81e-03	0.0	0.0
121	43.285	0.023	0.070	1.39	2.68e-04	1.92	3.69e-04	4.76e-03	0.0	0.0	0.0
122	43.572	0.023	0.070	0.12	2.35e-05	4.47	8.60e-04	21.18	4.08e-03	0.0	0.0
123	43.856	0.023	0.070	12.09	2.33e-03	1.84	3.54e-04	3.16	6.08e-04	0.0	0.0
124	44.057	0.023	0.070	0.89	1.71e-04	0.30	5.77e-05	0.92	1.78e-04	0.0	0.0
125	44.971	0.022	0.070	0.11	2.05e-05	2.75	5.30e-04	22.93	4.41e-03	0.0	0.0
126	45.249	0.022	0.070	1.07	2.06e-04	1.46	2.80e-04	6.22	1.20e-03	0.0	0.0
127	46.382	0.022	0.070	6.67	1.28e-03	25.38	4.88e-03	10.65	2.05e-03	0.0	0.0
128	47.102	0.021	0.070	92.44	1.78e-02	30.13	5.80e-03	0.01	2.53e-06	0.0	0.0
129	47.225	0.021	0.069	0.04	8.41e-06	1.01	1.93e-04	0.18	3.54e-05	0.0	0.0
130	48.031	0.021	0.069	1.23	2.37e-04	5.96	1.15e-03	3.03	5.83e-04	0.0	0.0
Risulta				5.192e+05		5.195e+05		5.195e+05			
In percentuale				99.90		99.95		99.96			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.111 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.202 sec.
			fattore q: 1.500
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 2.145
			classe di duttilità CD: ND
			numero di modi considerati:130
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
680.00	9340.85	950.00	1080.00	-95.00	0.0	950.00	1080.00	0.958	0.0	0.0
666.67	204.07	950.00	1040.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
653.33	176.29	950.00	1000.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
640.00	551.85	950.00	1003.65	-95.00	0.0	950.00	1020.00	2.988	0.0	0.003
626.67	204.07	950.00	920.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
613.33	176.29	950.00	880.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
600.00	1031.85	950.00	947.08	-95.00	0.0	950.00	960.00	2.953	0.0	0.001
586.67	204.07	950.00	800.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
573.33	1.913e+04	950.00	760.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
560.00	1511.85	950.00	888.33	-95.00	0.0	950.00	900.00	2.896	0.0	6.8246e-04
546.67	204.07	950.00	680.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
533.33	176.29	950.00	640.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
520.00	1991.85	950.00	828.98	-95.00	0.0	950.00	840.00	2.820	0.0	4.8342e-04
506.67	204.07	950.00	560.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
493.33	176.29	950.00	520.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
480.00	7.328e+04	950.00	1069.52	-95.00	0.0	950.00	981.73	2.733	0.0	0.005
466.67	1.920e+04	950.00	440.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
453.33	176.29	950.00	400.00	-95.00	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	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
440.00	3491.85	950.00	766.92	-95.00	0.0	950.00	946.05	2.623	0.0	0.009
426.67	204.07	950.00	320.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
413.33	176.29	950.00	280.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
400.00	3971.85	950.00	708.32	-95.00	0.0	950.00	908.32	2.510	0.0	0.008
386.67	204.07	950.00	200.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
373.33	176.29	950.00	160.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
360.00	2.233e+04	950.00	225.53	-95.00	0.0	950.00	143.90	2.391	0.0	0.015
346.67	5172.52	950.00	80.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
333.33	5053.08	950.00	40.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
320.00	1.747e+05	950.00	1439.29	-95.00	0.0	950.00	1886.03	1.663	0.0	0.332
280.00	9610.00	950.00	812.20	-95.00	0.0	950.00	158.39	1.532	0.0	0.045
270.00	1.004e+05	1538.20	2124.03	-156.95	0.0	993.48	1900.00	1.1525e-05	1.899	72.172
240.00	1.300e+04	950.00	1096.18	-95.00	0.0	950.00	1886.03	1.520	0.0	0.586
200.00	1.192e+04	989.57	1039.53	-95.00	0.0	1141.94	1868.06	1.463	0.162	0.454
160.00	1.035e+04	1041.15	928.05	-95.00	0.0	1141.94	1868.06	1.463	0.107	0.515
120.00	1.103e+04	1035.53	988.06	-95.00	0.0	1141.93	1885.74	1.463	0.113	0.737
80.00	1.002e+04	1042.90	1021.03	-95.00	0.0	1170.99	1872.49	1.450	0.137	0.572
40.00	1.004e+04	1040.42	1023.11	-95.00	0.0	1141.93	1885.74	1.463	0.108	0.708
Risulta	5.198e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.997	0.501	0.103	0.76	1.45e-04	7.474e+04	14.4	9.84	1.89e-03	0.0	0.0
2	2.966	0.337	0.111	1.412e+05	27.2	8.77	1.69e-03	2.53	4.87e-04	0.0	0.0
3	4.059	0.246	0.111	0.60	1.16e-04	8.117e+04	15.6	3.722e+04	7.2	0.0	0.0
4	4.185	0.239	0.111	4.04	7.77e-04	343.93	6.62e-02	450.97	8.68e-02	0.0	0.0
5	4.264	0.235	0.111	7741.07	1.5	1133.73	0.2	7.85	1.51e-03	0.0	0.0
6	4.285	0.233	0.111	4327.16	0.8	1.97	3.79e-04	15.92	3.06e-03	0.0	0.0
7	4.327	0.231	0.111	2.77	5.33e-04	0.05	1.04e-05	1.20	2.31e-04	0.0	0.0
8	4.329	0.231	0.111	1.133e+05	21.8	674.78	0.1	1091.46	0.2	0.0	0.0
9	4.363	0.229	0.111	2854.64	0.5	106.26	2.04e-02	319.99	6.16e-02	0.0	0.0
10	4.379	0.228	0.111	1.22	2.34e-04	0.04	8.28e-06	3.26	6.27e-04	0.0	0.0
11	4.382	0.228	0.111	3376.14	0.6	95.16	1.83e-02	380.85	7.33e-02	0.0	0.0
12	4.387	0.228	0.111	725.22	0.1	0.21	3.97e-05	223.14	4.29e-02	0.0	0.0
13	4.387	0.228	0.111	41.96	8.07e-03	5.21	1.00e-03	155.07	2.98e-02	0.0	0.0
14	4.392	0.228	0.111	0.03	5.83e-06	5.19e-04	0.0	0.10	1.98e-05	0.0	0.0
15	4.395	0.228	0.111	82.56	1.59e-02	0.11	2.20e-05	5.83	1.12e-03	0.0	0.0
16	4.396	0.227	0.111	0.05	9.79e-06	1.87e-04	0.0	0.09	1.66e-05	0.0	0.0
17	4.397	0.227	0.111	33.99	6.54e-03	4.91e-03	0.0	1.66	3.20e-04	0.0	0.0
18	4.398	0.227	0.111	0.01	1.95e-06	6.83e-05	0.0	0.01	2.03e-06	0.0	0.0
19	4.399	0.227	0.111	2.36	4.54e-04	3.51e-05	0.0	0.07	1.31e-05	0.0	0.0
20	4.399	0.227	0.111	5.88e-06	0.0	3.19e-05	0.0	9.38e-04	0.0	0.0	0.0
21	4.405	0.227	0.111	2.501e+04	4.8	100.98	1.94e-02	2911.64	0.6	0.0	0.0
22	4.409	0.227	0.111	5.443e+04	10.5	6.66	1.28e-03	26.12	5.03e-03	0.0	0.0
23	4.428	0.226	0.111	883.12	0.2	2.24	4.31e-04	11.74	2.26e-03	0.0	0.0
24	4.438	0.225	0.111	2.541e+04	4.9	6.44	1.24e-03	7.68	1.48e-03	0.0	0.0
25	4.448	0.225	0.111	2.875e+04	5.5	0.43	8.35e-05	310.85	5.98e-02	0.0	0.0
26	4.458	0.224	0.111	446.82	8.60e-02	1.49	2.88e-04	11.99	2.31e-03	0.0	0.0
27	4.462	0.224	0.111	1388.67	0.3	0.79	1.51e-04	4.16	8.01e-04	0.0	0.0
28	4.472	0.224	0.111	2110.01	0.4	0.18	3.54e-05	636.79	0.1	0.0	0.0
29	4.488	0.223	0.111	33.37	6.42e-03	1.14	2.20e-04	22.82	4.39e-03	0.0	0.0
30	4.498	0.222	0.111	321.18	6.18e-02	18.61	3.58e-03	362.93	6.98e-02	0.0	0.0
31	4.945	0.202	0.111	2257.14	0.4	2.222e+05	42.8	1.718e+04	3.3	0.0	0.0
32	5.315	0.188	0.111	1.539e+04	3.0	1053.45	0.2	868.14	0.2	0.0	0.0
33	5.885	0.170	0.111	1.251e+04	2.4	2104.26	0.4	587.83	0.1	0.0	0.0
34	7.057	0.142	0.107	2287.23	0.4	8.431e+04	16.2	3.762e+04	7.2	0.0	0.0
35	7.502	0.133	0.105	421.20	8.10e-02	6738.36	1.3	1.943e+05	37.4	0.0	0.0
36	7.819	0.128	0.103	6.03	1.16e-03	100.16	1.93e-02	6487.73	1.2	0.0	0.0
37	8.091	0.124	0.102	1.808e+04	3.5	1380.86	0.3	6.54	1.26e-03	0.0	0.0
38	8.468	0.118	0.100	3.462e+04	6.7	3837.07	0.7	271.73	5.23e-02	0.0	0.0
39	9.423	0.106	0.096	399.73	7.69e-02	3055.33	0.6	2877.96	0.6	0.0	0.0
40	10.140	0.099	0.094	1189.09	0.2	70.64	1.36e-02	3119.53	0.6	0.0	0.0
41	10.353	0.097	0.093	836.94	0.2	572.50	0.1	25.75	4.95e-03	0.0	0.0
42	10.922	0.092	0.092	244.60	4.71e-02	1.841e+04	3.5	4.330e+04	8.3	0.0	0.0
43	11.614	0.086	0.090	74.49	1.43e-02	1099.79	0.2	9162.56	1.8	0.0	0.0
44	12.249	0.082	0.088	14.53	2.80e-03	0.24	4.67e-05	3.017e+04	5.8	0.0	0.0
45	12.532	0.080	0.088	325.70	6.27e-02	69.30	1.33e-02	93.32	1.80e-02	0.0	0.0
46	12.618	0.079	0.088	61.14	1.18e-02	50.73	9.76e-03	1.480e+04	2.8	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
47	12.906	0.077	0.087	4708.76	0.9	3262.49	0.6	141.54	2.72e-02	0.0	0.0
48	13.033	0.077	0.087	30.71	5.91e-03	73.78	1.42e-02	7677.70	1.5	0.0	0.0
49	13.262	0.075	0.087	11.08	2.13e-03	8.06	1.55e-03	1.360e+04	2.6	0.0	0.0
50	13.267	0.075	0.086	439.21	8.45e-02	56.21	1.08e-02	4.898e+04	9.4	0.0	0.0
51	13.714	0.073	0.086	2870.70	0.6	415.86	8.00e-02	954.91	0.2	0.0	0.0
52	13.982	0.072	0.085	1.67	3.22e-04	0.59	1.13e-04	665.23	0.1	0.0	0.0
53	14.022	0.071	0.085	9.21	1.77e-03	1146.88	0.2	1895.56	0.4	0.0	0.0
54	14.865	0.067	0.084	2063.79	0.4	10.13	1.95e-03	0.40	7.69e-05	0.0	0.0
55	15.172	0.066	0.084	0.70	1.34e-04	1.06	2.03e-04	1446.48	0.3	0.0	0.0
56	15.232	0.066	0.083	2.04	3.92e-04	32.00	6.16e-03	83.66	1.61e-02	0.0	0.0
57	15.438	0.065	0.083	0.03	6.59e-06	1.10	2.11e-04	1039.29	0.2	0.0	0.0
58	15.620	0.064	0.083	0.40	7.74e-05	6.07	1.17e-03	12.55	2.42e-03	0.0	0.0
59	15.652	0.064	0.083	0.44	8.48e-05	2.73	5.25e-04	18.54	3.57e-03	0.0	0.0
60	15.665	0.064	0.083	19.82	3.81e-03	52.14	1.00e-02	330.68	6.36e-02	0.0	0.0
61	15.711	0.064	0.083	3.01	5.78e-04	10.01	1.93e-03	3.07	5.91e-04	0.0	0.0
62	15.795	0.063	0.083	0.03	5.87e-06	0.04	7.77e-06	2.88	5.54e-04	0.0	0.0
63	15.838	0.063	0.083	4.43	8.52e-04	0.09	1.81e-05	15.55	2.99e-03	0.0	0.0
64	15.880	0.063	0.083	7.55e-03	1.45e-06	1.06	2.05e-04	2.05	3.95e-04	0.0	0.0
65	15.907	0.063	0.083	3.77	7.26e-04	0.28	5.42e-05	0.71	1.37e-04	0.0	0.0
66	15.925	0.063	0.083	1.03	1.99e-04	0.07	1.37e-05	0.52	9.91e-05	0.0	0.0
67	15.947	0.063	0.083	1.19e-03	0.0	5.08	9.77e-04	64.06	1.23e-02	0.0	0.0
68	16.008	0.062	0.082	0.73	1.40e-04	0.47	9.11e-05	3.41	6.56e-04	0.0	0.0
69	16.035	0.062	0.082	6.48	1.25e-03	6.75	1.30e-03	62.35	1.20e-02	0.0	0.0
70	16.590	0.060	0.082	130.29	2.51e-02	40.22	7.74e-03	3657.17	0.7	0.0	0.0
71	16.642	0.060	0.082	2787.82	0.5	33.84	6.51e-03	18.38	3.54e-03	0.0	0.0
72	17.234	0.058	0.081	2.68	5.15e-04	396.88	7.64e-02	7406.02	1.4	0.0	0.0
73	18.452	0.054	0.080	2.41	4.64e-04	3263.12	0.6	2.031e+04	3.9	0.0	0.0
74	18.604	0.054	0.080	0.12	2.40e-05	8.43e-03	1.62e-06	199.29	3.83e-02	0.0	0.0
75	19.128	0.052	0.079	988.59	0.2	73.57	1.42e-02	35.00	6.73e-03	0.0	0.0
76	19.908	0.050	0.079	16.92	3.25e-03	1445.82	0.3	98.70	1.90e-02	0.0	0.0
77	19.912	0.050	0.079	1.11	2.13e-04	0.17	3.23e-05	2675.00	0.5	0.0	0.0
78	20.311	0.049	0.078	1.94	3.74e-04	4.65	8.94e-04	173.70	3.34e-02	0.0	0.0
79	21.728	0.046	0.077	57.34	1.10e-02	293.61	5.65e-02	922.40	0.2	0.0	0.0
80	21.999	0.045	0.077	501.53	9.65e-02	66.53	1.28e-02	39.24	7.55e-03	0.0	0.0
81	22.708	0.044	0.077	0.34	6.61e-05	205.29	3.95e-02	115.24	2.22e-02	0.0	0.0
82	23.242	0.043	0.076	0.04	7.55e-06	0.23	4.51e-05	23.51	4.52e-03	0.0	0.0
83	23.412	0.043	0.076	0.07	1.43e-05	1.09e-03	0.0	101.45	1.95e-02	0.0	0.0
84	24.181	0.041	0.076	6.74	1.30e-03	1537.81	0.3	257.24	4.95e-02	0.0	0.0
85	24.941	0.040	0.075	0.34	6.48e-05	1.82	3.51e-04	94.47	1.82e-02	0.0	0.0
86	25.228	0.040	0.075	427.58	8.23e-02	187.28	3.60e-02	12.77	2.46e-03	0.0	0.0
87	26.422	0.038	0.075	47.97	9.23e-03	29.69	5.71e-03	21.74	4.18e-03	0.0	0.0
88	26.469	0.038	0.075	226.29	4.35e-02	22.18	4.27e-03	2.71	5.21e-04	0.0	0.0
89	27.482	0.036	0.074	97.37	1.87e-02	1244.13	0.2	483.92	9.31e-02	0.0	0.0
90	27.564	0.036	0.074	110.88	2.13e-02	80.55	1.55e-02	37.34	7.18e-03	0.0	0.0
91	28.683	0.035	0.074	121.62	2.34e-02	304.63	5.86e-02	151.60	2.92e-02	0.0	0.0
92	29.003	0.034	0.074	0.06	1.14e-05	0.04	7.89e-06	1.31	2.52e-04	0.0	0.0
93	29.092	0.034	0.074	39.42	7.58e-03	25.71	4.95e-03	76.14	1.46e-02	0.0	0.0
94	29.767	0.034	0.073	40.41	7.77e-03	100.02	1.92e-02	154.53	2.97e-02	0.0	0.0
95	30.124	0.033	0.073	147.30	2.83e-02	284.81	5.48e-02	24.52	4.72e-03	0.0	0.0
96	30.552	0.033	0.073	1.45	2.79e-04	33.43	6.43e-03	3.63	6.99e-04	0.0	0.0
97	30.935	0.032	0.073	388.85	7.48e-02	1.33	2.57e-04	13.73	2.64e-03	0.0	0.0
98	31.278	0.032	0.073	0.20	3.81e-05	46.89	9.02e-03	61.99	1.19e-02	0.0	0.0
99	31.499	0.032	0.073	94.29	1.81e-02	63.70	1.23e-02	14.24	2.74e-03	0.0	0.0
100	31.636	0.032	0.073	246.78	4.75e-02	2.44	4.70e-04	9.59	1.84e-03	0.0	0.0
101	32.281	0.031	0.073	23.96	4.61e-03	30.50	5.87e-03	2.92	5.61e-04	0.0	0.0
102	32.458	0.031	0.073	2.84	5.46e-04	65.63	1.26e-02	13.58	2.61e-03	0.0	0.0
103	32.871	0.030	0.072	114.45	2.20e-02	242.57	4.67e-02	3.47	6.68e-04	0.0	0.0
104	33.279	0.030	0.072	6.37	1.23e-03	173.87	3.35e-02	5.65	1.09e-03	0.0	0.0
105	33.379	0.030	0.072	27.71	5.33e-03	53.44	1.03e-02	0.48	9.32e-05	0.0	0.0
106	33.545	0.030	0.072	1.06e-03	0.0	8.76e-03	1.69e-06	3.21	6.18e-04	0.0	0.0
107	34.892	0.029	0.072	2.80	5.39e-04	18.21	3.50e-03	14.77	2.84e-03	0.0	0.0
108	35.100	0.028	0.072	16.55	3.18e-03	0.59	1.13e-04	0.51	9.76e-05	0.0	0.0
109	35.756	0.028	0.072	1.01	1.95e-04	0.08	1.56e-05	6.52	1.25e-03	0.0	0.0
110	36.114	0.028	0.072	7.65	1.47e-03	1.85	3.55e-04	21.66	4.17e-03	0.0	0.0
111	37.112	0.027	0.071	239.10	4.60e-02	98.73	1.90e-02	31.11	5.98e-03	0.0	0.0
112	37.246	0.027	0.071	305.15	5.87e-02	21.03	4.05e-03	0.73	1.41e-04	0.0	0.0
113	37.397	0.027	0.071	16.31	3.14e-03	5.58	1.07e-03	1.01	1.95e-04	0.0	0.0
114	37.760	0.026	0.071	6.64e-04	0.0	4.66e-03	0.0	1.91	3.68e-04	0.0	0.0
115	38.159	0.026	0.071	43.53	8.37e-03	4.51	8.68e-04	5.10	9.81e-04	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
116	38.929	0.026	0.071	288.01	5.54e-02	44.77	8.61e-03	8.86	1.71e-03	0.0	0.0
117	40.242	0.025	0.071	4.60	8.84e-04	130.44	2.51e-02	49.72	9.57e-03	0.0	0.0
118	40.380	0.025	0.071	6.08	1.17e-03	61.81	1.19e-02	25.79	4.96e-03	0.0	0.0
119	41.330	0.024	0.070	25.12	4.83e-03	29.98	5.77e-03	4.62	8.89e-04	0.0	0.0
120	41.680	0.024	0.070	87.48	1.68e-02	52.02	1.00e-02	25.63	4.93e-03	0.0	0.0
121	42.833	0.023	0.070	52.92	1.02e-02	5.22	1.00e-03	7.96	1.53e-03	0.0	0.0
122	43.267	0.023	0.070	6.05	1.16e-03	3.07	5.90e-04	3.24	6.24e-04	0.0	0.0
123	43.669	0.023	0.070	25.57	4.92e-03	29.24	5.63e-03	12.84	2.47e-03	0.0	0.0
124	43.979	0.023	0.070	0.78	1.50e-04	0.22	4.23e-05	0.45	8.58e-05	0.0	0.0
125	45.055	0.022	0.070	0.51	9.79e-05	1.33	2.55e-04	31.58	6.08e-03	0.0	0.0
126	45.366	0.022	0.070	11.11	2.14e-03	3.76e-03	0.0	2.34	4.50e-04	0.0	0.0
127	46.073	0.022	0.070	1.09	2.10e-04	55.78	1.07e-02	8.61	1.66e-03	0.0	0.0
128	47.113	0.021	0.070	20.20	3.89e-03	4.66e-04	0.0	0.89	1.72e-04	0.0	0.0
129	47.250	0.021	0.069	46.35	8.92e-03	4.31	8.30e-04	0.14	2.60e-05	0.0	0.0
130	47.829	0.021	0.069	0.70	1.34e-04	25.82	4.97e-03	0.15	2.86e-05	0.0	0.0
Risulta				5.192e+05		5.195e+05		5.195e+05			
In percentuale				99.90		99.95		99.96			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.080 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.339 sec.
			numero di modi considerati: 130
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
680.00	9340.85	950.00	1080.00	0.0	0.0	950.00	1080.00	0.958	0.0	0.0
666.67	204.07	950.00	1040.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.33	176.29	950.00	1000.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.00	551.85	950.00	1003.65	0.0	-6.00	950.00	1020.00	2.988	0.0	0.003
626.67	204.07	950.00	920.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.33	176.29	950.00	880.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	1031.85	950.00	947.08	0.0	-12.00	950.00	960.00	2.953	0.0	0.001
586.67	204.07	950.00	800.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.33	1.913e+04	950.00	760.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
560.00	1511.85	950.00	888.33	0.0	-18.00	950.00	900.00	2.896	0.0	6.8246e-04
546.67	204.07	950.00	680.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.33	176.29	950.00	640.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
520.00	1991.85	950.00	828.98	0.0	-24.00	950.00	840.00	2.820	0.0	4.8342e-04
506.67	204.07	950.00	560.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.33	176.29	950.00	520.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.00	7.328e+04	950.00	1069.52	0.0	-30.00	950.00	981.73	2.733	0.0	0.005
466.67	1.920e+04	950.00	440.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
453.33	176.29	950.00	400.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	3491.85	950.00	766.92	0.0	-36.00	950.00	946.05	2.623	0.0	0.009
426.67	204.07	950.00	320.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.33	176.29	950.00	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.00	3971.85	950.00	708.32	0.0	-42.00	950.00	908.32	2.510	0.0	0.008
386.67	204.07	950.00	200.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
373.33	176.29	950.00	160.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.00	2.233e+04	950.00	225.53	0.0	-48.00	950.00	143.90	2.391	0.0	0.015
346.67	5172.52	950.00	80.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.33	5053.08	950.00	40.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	1.747e+05	950.00	1439.29	0.0	-95.00	950.00	1886.03	1.663	0.0	0.332
280.00	9610.00	950.00	812.20	0.0	-93.00	950.00	158.39	1.532	0.0	0.045
270.00	1.004e+05	1538.20	2124.03	0.0	-21.15	993.48	1900.00	1.1525e-05	1.899	72.172
240.00	1.300e+04	950.00	1096.18	0.0	-95.00	950.00	1886.03	1.520	0.0	0.586
200.00	1.192e+04	989.57	1039.53	0.0	-95.00	1141.94	1868.06	1.463	0.162	0.454
160.00	1.035e+04	1041.15	928.05	0.0	-95.00	1141.94	1868.06	1.463	0.107	0.515
120.00	1.103e+04	1035.53	988.06	0.0	-95.00	1141.93	1885.74	1.463	0.113	0.737

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
80.00	1.002e+04	1042.90	1021.03	0.0	-95.00	1170.99	1872.49	1.450	0.137	0.572
40.00	1.004e+04	1040.42	1023.11	0.0	-95.00	1141.93	1885.74	1.463	0.108	0.708
Risulta	5.198e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.998	0.501	0.057	2.06	3.97e-04	7.479e+04	14.4	9.76	1.88e-03	0.0	0.0
2	2.949	0.339	0.080	1.445e+05	27.8	125.77	2.42e-02	4.31	8.29e-04	0.0	0.0
3	4.069	0.246	0.080	1050.36	0.2	9.085e+04	17.5	3.801e+04	7.3	0.0	0.0
4	4.185	0.239	0.080	30.26	5.82e-03	587.47	0.1	566.28	0.1	0.0	0.0
5	4.284	0.233	0.080	1.154e+04	2.2	121.61	2.34e-02	74.11	1.43e-02	0.0	0.0
6	4.300	0.233	0.080	4.538e+04	8.7	881.23	0.2	378.20	7.28e-02	0.0	0.0
7	4.327	0.231	0.080	0.03	6.25e-06	0.10	1.90e-05	3.64	7.01e-04	0.0	0.0
8	4.338	0.231	0.080	77.53	1.49e-02	90.82	1.75e-02	2790.97	0.5	0.0	0.0
9	4.351	0.230	0.080	3.514e+04	6.8	324.01	6.23e-02	48.15	9.26e-03	0.0	0.0
10	4.368	0.229	0.080	1.791e+04	3.4	380.03	7.31e-02	57.62	1.11e-02	0.0	0.0
11	4.379	0.228	0.080	9.86e-03	1.90e-06	0.05	9.47e-06	2.16	4.15e-04	0.0	0.0
12	4.388	0.228	0.080	16.15	3.11e-03	3.50	6.73e-04	0.37	7.08e-05	0.0	0.0
13	4.392	0.228	0.080	1.38e-05	0.0	1.40e-03	0.0	0.05	9.72e-06	0.0	0.0
14	4.395	0.228	0.080	0.08	1.47e-05	0.11	2.05e-05	8.38e-03	1.61e-06	0.0	0.0
15	4.396	0.227	0.080	8.13e-05	0.0	1.39e-03	0.0	0.04	8.43e-06	0.0	0.0
16	4.397	0.227	0.080	0.12	2.38e-05	3.81e-03	0.0	1.43e-04	0.0	0.0	0.0
17	4.398	0.227	0.080	3.76e-06	0.0	3.47e-04	0.0	4.64e-03	0.0	0.0	0.0
18	4.399	0.227	0.080	0.06	1.23e-05	4.83e-06	0.0	9.01e-06	0.0	0.0	0.0
19	4.399	0.227	0.080	6.01e-06	0.0	3.95e-05	0.0	3.48e-04	0.0	0.0	0.0
20	4.427	0.226	0.080	4781.16	0.9	91.97	1.77e-02	9.05	1.74e-03	0.0	0.0
21	4.428	0.226	0.080	7.06	1.36e-03	11.54	2.22e-03	847.40	0.2	0.0	0.0
22	4.431	0.226	0.080	217.98	4.19e-02	55.41	1.07e-02	177.81	3.42e-02	0.0	0.0
23	4.436	0.225	0.080	3.723e+04	7.2	554.34	0.1	49.16	9.46e-03	0.0	0.0
24	4.440	0.225	0.080	11.16	2.15e-03	89.43	1.72e-02	213.84	4.11e-02	0.0	0.0
25	4.441	0.225	0.080	1.080e+04	2.1	70.23	1.35e-02	31.53	6.07e-03	0.0	0.0
26	4.448	0.225	0.080	1.92	3.69e-04	9.69	1.86e-03	21.18	4.08e-03	0.0	0.0
27	4.455	0.224	0.080	4.172e+04	8.0	608.66	0.1	77.32	1.49e-02	0.0	0.0
28	4.457	0.224	0.080	0.12	2.29e-05	0.36	6.97e-05	13.80	2.66e-03	0.0	0.0
29	4.457	0.224	0.080	60.59	1.17e-02	1.65	3.17e-04	0.15	2.98e-05	0.0	0.0
30	4.458	0.224	0.080	4.163e+04	8.0	619.34	0.1	77.28	1.49e-02	0.0	0.0
31	4.830	0.207	0.080	2.737e+04	5.3	1.940e+05	37.3	1.389e+04	2.7	0.0	0.0
32	5.283	0.189	0.080	1.305e+04	2.5	2.093e+04	4.0	3980.87	0.8	0.0	0.0
33	5.663	0.177	0.080	7853.56	1.5	61.04	1.17e-02	2216.93	0.4	0.0	0.0
34	7.151	0.140	0.080	3932.99	0.8	7.200e+04	13.9	4.834e+04	9.3	0.0	0.0
35	7.509	0.133	0.080	774.22	0.1	8682.66	1.7	1.829e+05	35.2	0.0	0.0
36	7.819	0.128	0.080	0.89	1.71e-04	118.32	2.28e-02	6364.77	1.2	0.0	0.0
37	8.101	0.123	0.080	9028.82	1.7	6591.65	1.3	12.99	2.50e-03	0.0	0.0
38	8.433	0.119	0.080	4.538e+04	8.7	6234.92	1.2	561.50	0.1	0.0	0.0
39	9.483	0.105	0.075	243.60	4.69e-02	1047.49	0.2	2347.30	0.5	0.0	0.0
40	9.874	0.101	0.073	550.26	0.1	67.47	1.30e-02	6.24	1.20e-03	0.0	0.0
41	10.497	0.095	0.070	7.81	1.50e-03	735.68	0.1	6325.47	1.2	0.0	0.0
42	10.800	0.093	0.069	0.03	5.97e-06	12.04	2.32e-03	50.46	9.71e-03	0.0	0.0
43	10.987	0.091	0.069	148.76	2.86e-02	2.215e+04	4.3	4.692e+04	9.0	0.0	0.0
44	12.245	0.082	0.065	212.81	4.09e-02	205.10	3.95e-02	2.384e+04	4.6	0.0	0.0
45	12.325	0.081	0.065	2246.53	0.4	3402.22	0.7	9226.51	1.8	0.0	0.0
46	12.518	0.080	0.064	0.38	7.25e-05	116.18	2.24e-02	9913.62	1.9	0.0	0.0
47	12.562	0.080	0.064	51.34	9.88e-03	339.14	6.52e-02	1739.12	0.3	0.0	0.0
48	12.898	0.078	0.063	28.21	5.43e-03	472.42	9.09e-02	6006.93	1.2	0.0	0.0
49	13.032	0.077	0.063	4.23	8.13e-04	13.01	2.50e-03	8655.60	1.7	0.0	0.0
50	13.262	0.075	0.062	0.40	7.74e-05	0.19	3.73e-05	2.677e+04	5.2	0.0	0.0
51	13.324	0.075	0.062	49.06	9.44e-03	649.89	0.1	3.363e+04	6.5	0.0	0.0
52	13.471	0.074	0.062	6279.97	1.2	23.19	4.46e-03	657.43	0.1	0.0	0.0
53	13.981	0.072	0.061	2.87	5.52e-04	3.33	6.40e-04	843.27	0.2	0.0	0.0
54	14.348	0.070	0.060	1437.17	0.3	17.20	3.31e-03	4.13	7.95e-04	0.0	0.0
55	15.172	0.066	0.058	0.01	2.81e-06	1.31	2.52e-04	1447.20	0.3	0.0	0.0
56	15.438	0.065	0.058	0.05	1.05e-05	0.53	1.03e-04	995.13	0.2	0.0	0.0
57	15.440	0.065	0.058	5.63	1.08e-03	32.92	6.33e-03	104.37	2.01e-02	0.0	0.0
58	15.450	0.065	0.058	18.29	3.52e-03	76.16	1.47e-02	290.58	5.59e-02	0.0	0.0
59	15.732	0.064	0.058	37.71	7.26e-03	0.43	8.26e-05	0.28	5.32e-05	0.0	0.0
60	15.784	0.063	0.057	2.47	4.75e-04	19.39	3.73e-03	96.03	1.85e-02	0.0	0.0
61	15.796	0.063	0.057	0.61	1.17e-04	2.88e-03	0.0	0.09	1.81e-05	0.0	0.0
62	15.815	0.063	0.057	0.31	6.05e-05	0.66	1.28e-04	8.05	1.55e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spetttrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
63	15.836	0.063	0.057	3.79	7.29e-04	9.33	1.79e-03	65.64	1.26e-02	0.0	0.0
64	15.836	0.063	0.057	23.26	4.48e-03	0.19	3.75e-05	1.46	2.81e-04	0.0	0.0
65	15.869	0.063	0.057	34.14	6.57e-03	0.08	1.63e-05	0.04	7.18e-06	0.0	0.0
66	15.889	0.063	0.057	0.08	1.50e-05	0.06	1.09e-05	1.90	3.65e-04	0.0	0.0
67	15.898	0.063	0.057	0.58	1.12e-04	2.26e-04	0.0	2.61e-04	0.0	0.0	0.0
68	15.898	0.063	0.057	7.72e-03	1.49e-06	0.08	1.45e-05	2.18	4.20e-04	0.0	0.0
69	15.907	0.063	0.057	3.19	6.14e-04	0.01	1.93e-06	7.16e-03	1.38e-06	0.0	0.0
70	16.216	0.062	0.057	3045.41	0.6	31.42	6.05e-03	39.44	7.59e-03	0.0	0.0
71	16.577	0.060	0.056	1.16	2.24e-04	9.97	1.92e-03	3181.62	0.6	0.0	0.0
72	17.161	0.058	0.055	1.72	3.31e-04	439.76	8.46e-02	8271.65	1.6	0.0	0.0
73	18.143	0.055	0.054	0.01	2.67e-06	2421.42	0.5	1.239e+04	2.4	0.0	0.0
74	18.603	0.054	0.054	3.47	6.67e-04	0.07	1.39e-05	194.89	3.75e-02	0.0	0.0
75	18.852	0.053	0.053	1275.39	0.2	74.03	1.42e-02	67.82	1.30e-02	0.0	0.0
76	19.064	0.052	0.053	1.05	2.01e-04	1056.86	0.2	9648.20	1.9	0.0	0.0
77	19.826	0.050	0.052	14.02	2.70e-03	1556.33	0.3	537.34	0.1	0.0	0.0
78	20.218	0.049	0.052	2.68	5.16e-04	117.44	2.26e-02	392.89	7.56e-02	0.0	0.0
79	20.581	0.049	0.051	341.87	6.58e-02	17.58	3.38e-03	33.41	6.43e-03	0.0	0.0
80	21.268	0.047	0.051	2.39	4.60e-04	146.82	2.82e-02	830.84	0.2	0.0	0.0
81	22.511	0.044	0.050	6.43	1.24e-03	215.87	4.15e-02	156.04	3.00e-02	0.0	0.0
82	22.943	0.044	0.049	0.19	3.61e-05	137.66	2.65e-02	296.99	5.71e-02	0.0	0.0
83	23.242	0.043	0.049	0.06	1.12e-05	0.39	7.54e-05	23.79	4.58e-03	0.0	0.0
84	23.412	0.043	0.049	0.11	2.18e-05	3.56e-03	0.0	101.17	1.95e-02	0.0	0.0
85	23.653	0.042	0.049	10.43	2.01e-03	1654.81	0.3	275.63	5.30e-02	0.0	0.0
86	24.096	0.042	0.049	544.62	0.1	15.16	2.92e-03	21.61	4.16e-03	0.0	0.0
87	24.234	0.041	0.048	0.18	3.42e-05	8.10	1.56e-03	30.82	5.93e-03	0.0	0.0
88	25.375	0.039	0.048	78.33	1.51e-02	104.53	2.01e-02	9.23	1.78e-03	0.0	0.0
89	26.469	0.038	0.047	121.01	2.33e-02	18.50	3.56e-03	7.73	1.49e-03	0.0	0.0
90	27.541	0.036	0.046	66.63	1.28e-02	1437.68	0.3	583.23	0.1	0.0	0.0
91	28.329	0.035	0.046	246.44	1.74e-02	159.18	3.06e-02	82.92	1.60e-02	0.0	0.0
92	28.558	0.035	0.046	0.88	4.70e-04	3.60	6.92e-04	1.97	3.79e-04	0.0	0.0
93	28.688	0.035	0.046	0.01	2.19e-06	182.46	3.51e-02	124.89	2.40e-02	0.0	0.0
94	29.003	0.034	0.046	0.02	4.43e-06	5.38e-03	1.04e-06	0.97	1.87e-04	0.0	0.0
95	29.618	0.034	0.045	63.07	1.21e-02	19.65	3.78e-03	58.46	1.12e-02	0.0	0.0
96	30.217	0.033	0.045	392.70	7.56e-02	16.70	3.21e-03	35.25	6.78e-03	0.0	0.0
97	30.462	0.033	0.045	0.69	1.32e-04	236.35	4.55e-02	109.92	2.11e-02	0.0	0.0
98	31.105	0.032	0.045	194.55	3.74e-02	40.72	7.83e-03	17.73	3.41e-03	0.0	0.0
99	31.454	0.032	0.045	152.32	2.93e-02	31.34	6.03e-03	10.99	2.12e-03	0.0	0.0
100	31.806	0.031	0.044	194.44	3.74e-02	31.14	5.99e-03	11.36	2.19e-03	0.0	0.0
101	32.091	0.031	0.044	219.25	4.22e-02	11.42	2.20e-03	0.15	2.82e-05	0.0	0.0
102	32.432	0.031	0.044	21.85	4.20e-03	18.95	3.65e-03	0.55	1.06e-04	0.0	0.0
103	32.609	0.031	0.044	35.57	6.84e-03	2.25	4.32e-04	10.65	2.05e-03	0.0	0.0
104	33.206	0.030	0.044	39.54	7.61e-03	341.04	6.56e-02	6.86	1.32e-03	0.0	0.0
105	33.409	0.030	0.044	25.52	4.91e-03	100.81	1.94e-02	4.72	9.08e-04	0.0	0.0
106	33.545	0.030	0.044	2.99e-03	0.0	1.42e-03	0.0	3.24	6.24e-04	0.0	0.0
107	33.587	0.030	0.044	14.37	2.77e-03	26.36	5.07e-03	1.41	2.71e-04	0.0	0.0
108	33.820	0.030	0.044	17.64	3.39e-03	0.21	4.00e-05	0.10	1.87e-05	0.0	0.0
109	34.362	0.029	0.043	8.99	1.73e-03	18.93	3.64e-03	4.54	8.73e-04	0.0	0.0
110	35.076	0.029	0.043	0.36	6.86e-05	14.54	2.80e-03	10.15	1.95e-03	0.0	0.0
111	35.566	0.028	0.043	42.68	8.21e-03	7.30	1.40e-03	41.02	7.89e-03	0.0	0.0
112	35.995	0.028	0.043	222.15	4.27e-02	3.22	6.19e-04	23.62	4.54e-03	0.0	0.0
113	36.205	0.028	0.043	0.79	1.52e-04	3.19	6.13e-04	0.04	8.23e-06	0.0	0.0
114	37.063	0.027	0.043	120.66	2.32e-02	12.02	2.31e-03	4.45	8.57e-04	0.0	0.0
115	37.760	0.026	0.042	6.95e-04	0.0	4.54e-03	0.0	1.91	3.68e-04	0.0	0.0
116	38.028	0.026	0.042	0.50	9.64e-05	4.42	8.51e-04	39.89	7.68e-03	0.0	0.0
117	38.621	0.026	0.042	518.84	9.98e-02	46.02	8.85e-03	23.26	4.48e-03	0.0	0.0
118	39.607	0.025	0.042	0.62	1.19e-04	219.22	4.22e-02	13.88	2.67e-03	0.0	0.0
119	40.475	0.025	0.042	16.80	3.23e-03	64.30	1.24e-02	1.94	3.72e-04	0.0	0.0
120	41.427	0.024	0.041	12.51	2.41e-03	0.32	6.06e-05	29.25	5.63e-03	0.0	0.0
121	41.785	0.024	0.041	122.64	2.36e-02	67.98	1.31e-02	21.65	4.17e-03	0.0	0.0
122	43.313	0.023	0.041	0.16	3.07e-05	1.77	3.40e-04	28.06	5.40e-03	0.0	0.0
123	43.716	0.023	0.041	1.04	2.01e-04	9.23	1.78e-03	1.01	1.93e-04	0.0	0.0
124	43.757	0.023	0.041	2.56	4.92e-04	0.34	6.52e-05	6.53e-03	1.26e-06	0.0	0.0
125	44.841	0.022	0.041	2.65	5.10e-04	14.54	2.80e-03	13.67	2.63e-03	0.0	0.0
126	45.114	0.022	0.041	2.73	5.26e-04	0.26	5.09e-05	2.45	4.72e-04	0.0	0.0
127	45.603	0.022	0.041	0.99	1.91e-04	0.28	5.34e-05	20.59	3.96e-03	0.0	0.0
128	46.311	0.022	0.040	0.21	3.96e-05	44.19	8.50e-03	12.01	2.31e-03	0.0	0.0
129	46.575	0.021	0.040	1.22	2.35e-04	13.08	2.52e-03	5.09	9.79e-04	0.0	0.0
130	47.215	0.021	0.040	40.22	7.74e-03	14.02	2.70e-03	0.06	1.13e-05	0.0	0.0
Risulta				5.192e+05		5.195e+05		5.195e+05			

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
In percentuale				99.89		99.95		99.96			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.080 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.337 sec.
			numero di modi considerati:130
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
680.00	9340.85	950.00	1080.00	0.0	0.0	950.00	1080.00	0.958	0.0	0.0
666.67	204.07	950.00	1040.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
653.33	176.29	950.00	1000.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
640.00	551.85	950.00	1003.65	0.0	6.00	950.00	1020.00	2.988	0.0	0.003
626.67	204.07	950.00	920.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
613.33	176.29	950.00	880.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600.00	1031.85	950.00	947.08	0.0	12.00	950.00	960.00	2.953	0.0	0.001
586.67	204.07	950.00	800.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
573.33	1.913e+04	950.00	760.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
560.00	1511.85	950.00	888.33	0.0	18.00	950.00	900.00	2.896	0.0	6.8246e-04
546.67	204.07	950.00	680.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
533.33	176.29	950.00	640.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
520.00	1991.85	950.00	828.98	0.0	24.00	950.00	840.00	2.820	0.0	4.8342e-04
506.67	204.07	950.00	560.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
493.33	176.29	950.00	520.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
480.00	7.328e+04	950.00	1069.52	0.0	30.00	950.00	981.73	2.733	0.0	0.005
466.67	1.920e+04	950.00	440.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
453.33	176.29	950.00	400.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
440.00	3491.85	950.00	766.92	0.0	36.00	950.00	946.05	2.623	0.0	0.009
426.67	204.07	950.00	320.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
413.33	176.29	950.00	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400.00	3971.85	950.00	708.32	0.0	42.00	950.00	908.32	2.510	0.0	0.008
386.67	204.07	950.00	200.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
373.33	176.29	950.00	160.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.00	2.233e+04	950.00	225.53	0.0	48.00	950.00	143.90	2.391	0.0	0.015
346.67	5172.52	950.00	80.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.33	5053.08	950.00	40.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	1.747e+05	950.00	1439.29	0.0	95.00	950.00	1886.03	1.663	0.0	0.332
280.00	9610.00	950.00	812.20	0.0	93.00	950.00	158.39	1.532	0.0	0.045
270.00	1.004e+05	1538.20	2124.03	0.0	21.15	993.48	1900.00	1.1525e-05	1.899	72.172
240.00	1.300e+04	950.00	1096.18	0.0	95.00	950.00	1886.03	1.520	0.0	0.586
200.00	1.192e+04	989.57	1039.53	0.0	95.00	1141.94	1868.06	1.463	0.162	0.454
160.00	1.035e+04	1041.15	928.05	0.0	95.00	1141.94	1868.06	1.463	0.107	0.515
120.00	1.103e+04	1035.53	988.06	0.0	95.00	1141.93	1885.74	1.463	0.113	0.737
80.00	1.002e+04	1042.90	1021.03	0.0	95.00	1170.99	1872.49	1.450	0.137	0.572
40.00	1.004e+04	1040.42	1023.11	0.0	95.00	1141.93	1885.74	1.463	0.108	0.708
Risulta	5.198e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.998	0.501	0.057	1.84	3.51e-04	7.479e+04	14.4	9.77	1.88e-03	0.0	0.0
2	2.969	0.337	0.080	1.429e+05	27.3	108.49	2.09e-02	4.87	9.37e-04	0.0	0.0
3	4.069	0.246	0.080	881.60	0.2	9.047e+04	17.4	3.812e+04	7.3	0.0	0.0
4	4.186	0.239	0.080	37.30	7.13e-03	572.91	0.1	562.84	0.1	0.0	0.0
5	4.281	0.234	0.080	5.507e+04	10.5	144.69	2.78e-02	142.83	2.75e-02	0.0	0.0
6	4.296	0.233	0.080	8.178e+04	15.6	402.56	7.75e-02	248.99	4.79e-02	0.0	0.0
7	4.327	0.231	0.080	0.29	5.50e-05	0.08	1.63e-05	3.63	6.99e-04	0.0	0.0
8	4.336	0.231	0.080	5.959e+04	11.4	29.33	5.64e-03	216.24	4.16e-02	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
9	4.338	0.231	0.080	3016.97	0.6	60.08	1.16e-02	2542.80	0.5	0.0	0.0
10	4.365	0.229	0.080	1.329e+04	2.5	67.21	1.29e-02	11.97	2.30e-03	0.0	0.0
11	4.379	0.228	0.080	0.02	4.13e-06	0.05	9.54e-06	2.15	4.14e-04	0.0	0.0
12	4.388	0.228	0.080	63.69	1.22e-02	3.73	7.18e-04	0.40	7.79e-05	0.0	0.0
13	4.392	0.228	0.080	3.33e-05	0.0	1.24e-03	0.0	0.05	9.74e-06	0.0	0.0
14	4.395	0.228	0.080	0.32	6.16e-05	0.20	3.92e-05	0.02	3.12e-06	0.0	0.0
15	4.396	0.227	0.080	4.92e-04	0.0	1.25e-03	0.0	0.04	8.48e-06	0.0	0.0
16	4.397	0.227	0.080	1.59	3.05e-04	0.02	4.52e-06	1.17e-03	0.0	0.0	0.0
17	4.398	0.227	0.080	2.54e-05	0.0	3.34e-04	0.0	4.66e-03	0.0	0.0	0.0
18	4.399	0.227	0.080	0.97	1.85e-04	2.97e-03	0.0	9.39e-05	0.0	0.0	0.0
19	4.399	0.227	0.080	8.56e-05	0.0	4.48e-05	0.0	3.50e-04	0.0	0.0	0.0
20	4.406	0.227	0.080	5.098e+04	9.7	0.97	1.86e-04	1.29	2.48e-04	0.0	0.0
21	4.428	0.226	0.080	17.26	3.30e-03	6.92	1.33e-03	819.06	0.2	0.0	0.0
22	4.428	0.226	0.080	916.06	0.2	4.89	9.40e-04	37.92	7.30e-03	0.0	0.0
23	4.431	0.226	0.080	19.44	3.72e-03	34.88	6.71e-03	160.67	3.09e-02	0.0	0.0
24	4.440	0.225	0.080	310.20	5.93e-02	10.77	2.07e-03	0.38	7.37e-05	0.0	0.0
25	4.440	0.225	0.080	7.22	1.38e-03	92.20	1.77e-02	219.87	4.23e-02	0.0	0.0
26	4.446	0.225	0.080	2433.31	0.5	8.91e-03	1.71e-06	0.08	1.54e-05	0.0	0.0
27	4.448	0.225	0.080	0.24	4.65e-05	8.93	1.72e-03	20.70	3.98e-03	0.0	0.0
28	4.456	0.224	0.080	108.85	2.08e-02	3.42e-03	0.0	1.92e-04	0.0	0.0	0.0
29	4.457	0.224	0.080	0.05	8.84e-06	0.30	5.84e-05	13.94	2.68e-03	0.0	0.0
30	4.457	0.224	0.080	6.00	1.15e-03	0.14	2.75e-05	1.08e-03	0.0	0.0	0.0
31	4.791	0.209	0.080	1.424e+04	2.7	1.828e+05	35.2	1.266e+04	2.4	0.0	0.0
32	5.273	0.190	0.080	9181.30	1.8	3.486e+04	6.7	6727.20	1.3	0.0	0.0
33	5.931	0.169	0.080	6664.86	1.3	754.14	0.1	966.68	0.2	0.0	0.0
34	7.113	0.141	0.080	8002.14	1.5	7.206e+04	13.9	4.188e+04	8.1	0.0	0.0
35	7.506	0.133	0.080	1392.39	0.3	7057.42	1.4	1.896e+05	36.5	0.0	0.0
36	7.819	0.128	0.080	2.02	3.87e-04	122.49	2.36e-02	6349.91	1.2	0.0	0.0
37	8.005	0.125	0.080	1.875e+04	3.6	1059.87	0.2	56.52	1.09e-02	0.0	0.0
38	8.410	0.119	0.080	2.967e+04	5.7	1.423e+04	2.7	639.46	0.1	0.0	0.0
39	9.529	0.105	0.074	219.92	4.21e-02	517.56	9.96e-02	2040.38	0.4	0.0	0.0
40	10.378	0.096	0.071	3031.72	0.6	499.29	9.61e-02	0.03	5.15e-06	0.0	0.0
41	10.530	0.095	0.070	813.68	0.2	182.94	3.52e-02	9264.90	1.8	0.0	0.0
42	10.800	0.093	0.069	0.17	3.25e-05	0.95	1.83e-04	4.10	7.90e-04	0.0	0.0
43	11.021	0.091	0.069	401.36	7.68e-02	2.292e+04	4.4	4.471e+04	8.6	0.0	0.0
44	12.247	0.082	0.065	87.56	1.67e-02	39.81	7.66e-03	2.752e+04	5.3	0.0	0.0
45	12.399	0.081	0.064	2813.45	0.5	2650.60	0.5	4190.83	0.8	0.0	0.0
46	12.523	0.080	0.064	0.77	1.47e-04	86.87	1.67e-02	1.022e+04	2.0	0.0	0.0
47	12.577	0.080	0.064	371.12	7.10e-02	677.78	0.1	2911.04	0.6	0.0	0.0
48	13.032	0.077	0.063	0.49	9.42e-05	13.21	2.54e-03	8459.90	1.6	0.0	0.0
49	13.262	0.075	0.062	1.17e-03	0.0	1.75	3.37e-04	2.292e+04	4.4	0.0	0.0
50	13.265	0.075	0.062	0.26	4.89e-05	209.22	4.03e-02	4.307e+04	8.3	0.0	0.0
51	13.574	0.074	0.062	5126.31	1.0	15.74	3.03e-03	64.60	1.24e-02	0.0	0.0
52	13.981	0.072	0.061	3.49	6.68e-04	3.01	5.80e-04	836.39	0.2	0.0	0.0
53	14.695	0.068	0.059	0.03	4.94e-06	945.15	0.2	955.57	0.2	0.0	0.0
54	15.172	0.066	0.058	5.99	1.15e-03	2.29	4.40e-04	1431.32	0.3	0.0	0.0
55	15.292	0.065	0.058	2139.96	0.4	58.56	1.13e-02	47.34	9.11e-03	0.0	0.0
56	15.438	0.065	0.058	0.01	1.98e-06	0.90	1.74e-04	1017.88	0.2	0.0	0.0
57	15.453	0.065	0.058	46.86	8.96e-03	49.93	9.61e-03	221.45	4.26e-02	0.0	0.0
58	15.457	0.065	0.058	65.10	1.25e-02	10.36	1.99e-03	47.99	9.23e-03	0.0	0.0
59	15.784	0.063	0.057	1.06	2.02e-04	17.39	3.34e-03	87.27	1.68e-02	0.0	0.0
60	15.794	0.063	0.057	11.08	2.12e-03	0.05	8.87e-06	0.04	8.42e-06	0.0	0.0
61	15.814	0.063	0.057	86.16	1.65e-02	2.15	4.13e-04	0.65	1.25e-04	0.0	0.0
62	15.816	0.063	0.057	15.11	2.89e-03	6.06e-03	1.17e-06	9.15	1.76e-03	0.0	0.0
63	15.836	0.063	0.057	0.01	2.41e-06	7.51	1.44e-03	59.07	1.14e-02	0.0	0.0
64	15.838	0.063	0.057	0.33	6.24e-05	4.29e-03	0.0	1.23	2.36e-04	0.0	0.0
65	15.889	0.063	0.057	0.03	5.87e-06	0.05	8.79e-06	2.19	4.22e-04	0.0	0.0
66	15.897	0.063	0.057	5.71	1.09e-03	0.15	2.86e-05	0.02	3.26e-06	0.0	0.0
67	15.898	0.063	0.057	3.95e-03	0.0	0.10	1.85e-05	2.31	4.45e-04	0.0	0.0
68	15.901	0.063	0.057	13.34	2.55e-03	0.46	8.86e-05	0.04	7.35e-06	0.0	0.0
69	15.923	0.063	0.057	55.95	1.07e-02	2.14	4.12e-04	0.23	4.39e-05	0.0	0.0
70	16.586	0.060	0.056	20.33	3.89e-03	40.47	7.79e-03	3936.87	0.8	0.0	0.0
71	16.904	0.059	0.056	2862.04	0.5	67.49	1.30e-02	70.07	1.35e-02	0.0	0.0
72	17.243	0.058	0.055	47.06	9.00e-03	340.39	6.55e-02	6520.81	1.3	0.0	0.0
73	18.497	0.054	0.054	0.49	9.38e-05	3242.80	0.6	2.185e+04	4.2	0.0	0.0
74	18.604	0.054	0.054	2.50e-03	0.0	0.75	1.44e-04	157.79	3.04e-02	0.0	0.0
75	19.357	0.052	0.053	864.76	0.2	33.66	6.48e-03	206.85	3.98e-02	0.0	0.0
76	20.151	0.050	0.052	9.13	1.75e-03	997.41	0.2	1090.53	0.2	0.0	0.0
77	20.172	0.050	0.052	2.81	5.37e-04	256.63	4.94e-02	916.63	0.2	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
78	20.857	0.048	0.051	1.95	3.74e-04	21.67	4.17e-03	54.23	1.04e-02	0.0	0.0
79	22.279	0.045	0.050	17.27	3.30e-03	745.88	0.1	803.91	0.2	0.0	0.0
80	22.861	0.044	0.049	33.90	6.48e-03	390.78	7.52e-02	52.34	1.01e-02	0.0	0.0
81	23.242	0.043	0.049	1.25	2.39e-04	0.17	3.30e-05	23.22	4.47e-03	0.0	0.0
82	23.309	0.043	0.049	719.63	0.1	3.62	6.96e-04	0.45	8.63e-05	0.0	0.0
83	23.412	0.043	0.049	0.11	2.20e-05	8.26e-03	1.59e-06	102.53	1.97e-02	0.0	0.0
84	24.453	0.041	0.048	0.42	8.00e-05	1165.95	0.2	179.64	3.46e-02	0.0	0.0
85	25.490	0.039	0.048	178.26	3.41e-02	191.78	3.69e-02	29.24	5.63e-03	0.0	0.0
86	26.124	0.038	0.047	0.47	8.90e-05	22.01	4.24e-03	51.85	9.98e-03	0.0	0.0
87	27.333	0.037	0.047	304.02	5.81e-02	1356.93	0.3	362.47	6.97e-02	0.0	0.0
88	27.668	0.036	0.046	235.20	4.50e-02	2.57	4.94e-04	1.47e-04	0.0	0.0	0.0
89	28.341	0.035	0.046	112.91	2.16e-02	417.15	8.03e-02	504.41	9.70e-02	0.0	0.0
90	28.552	0.035	0.046	191.79	3.67e-02	81.23	1.56e-02	104.44	2.01e-02	0.0	0.0
91	29.003	0.034	0.046	8.97e-03	1.72e-06	0.04	7.54e-06	1.06	2.04e-04	0.0	0.0
92	29.386	0.034	0.045	18.36	3.51e-03	8.34	1.61e-03	1.31	2.52e-04	0.0	0.0
93	29.428	0.034	0.045	123.62	2.36e-02	8.92	1.72e-03	0.27	5.16e-05	0.0	0.0
94	29.515	0.034	0.045	30.59	5.85e-03	335.56	6.46e-02	0.80	1.54e-04	0.0	0.0
95	30.356	0.033	0.045	5.16	9.87e-04	23.30	4.48e-03	30.69	5.90e-03	0.0	0.0
96	31.291	0.032	0.045	29.30	5.60e-03	7.46	1.43e-03	72.08	1.39e-02	0.0	0.0
97	31.475	0.032	0.045	41.58	7.95e-03	23.99	4.61e-03	2.75	5.30e-04	0.0	0.0
98	31.869	0.031	0.044	150.06	2.87e-02	25.29	4.87e-03	20.41	3.93e-03	0.0	0.0
99	32.062	0.031	0.044	230.65	4.41e-02	38.88	7.48e-03	3.07	5.92e-04	0.0	0.0
100	32.470	0.031	0.044	0.60	1.15e-04	3.49	6.72e-04	14.62	2.81e-03	0.0	0.0
101	32.928	0.030	0.044	30.93	5.92e-03	121.92	2.35e-02	3.24	6.23e-04	0.0	0.0
102	33.004	0.030	0.044	216.60	4.14e-02	44.59	8.58e-03	4.25	8.19e-04	0.0	0.0
103	33.211	0.030	0.044	8.26	1.58e-03	185.22	3.56e-02	5.75	1.11e-03	0.0	0.0
104	33.545	0.030	0.044	1.99e-03	0.0	3.42e-03	0.0	3.21	6.18e-04	0.0	0.0
105	33.650	0.030	0.044	36.77	7.03e-03	0.53	1.03e-04	0.14	2.64e-05	0.0	0.0
106	34.025	0.029	0.044	0.45	8.53e-05	56.90	1.09e-02	0.05	1.03e-05	0.0	0.0
107	34.434	0.029	0.043	35.38	6.77e-03	21.86	4.21e-03	3.61	6.94e-04	0.0	0.0
108	35.247	0.028	0.043	3.27	6.26e-04	20.08	3.86e-03	8.16	1.57e-03	0.0	0.0
109	35.932	0.028	0.043	0.32	6.15e-05	42.10	8.10e-03	38.00	7.31e-03	0.0	0.0
110	36.129	0.028	0.043	159.74	3.06e-02	0.06	1.09e-05	1.65	3.17e-04	0.0	0.0
111	36.385	0.027	0.043	1.21	2.31e-04	53.75	1.03e-02	1.00	1.93e-04	0.0	0.0
112	37.760	0.026	0.042	8.36e-04	0.0	7.09e-03	1.36e-06	1.94	3.73e-04	0.0	0.0
113	37.929	0.026	0.042	403.52	7.72e-02	40.21	7.74e-03	12.95	2.49e-03	0.0	0.0
114	38.082	0.026	0.042	210.43	4.02e-02	5.32	1.02e-03	13.06	2.51e-03	0.0	0.0
115	38.699	0.026	0.042	26.92	5.15e-03	154.64	2.98e-02	19.20	3.69e-03	0.0	0.0
116	40.221	0.025	0.042	44.88	8.58e-03	2.75	5.30e-04	2.65	5.11e-04	0.0	0.0
117	41.129	0.024	0.042	24.58	4.70e-03	32.65	6.28e-03	15.03	2.89e-03	0.0	0.0
118	41.635	0.024	0.041	0.03	5.02e-06	6.36	1.22e-03	57.08	1.10e-02	0.0	0.0
119	41.733	0.024	0.041	113.59	2.17e-02	44.01	8.47e-03	37.11	7.14e-03	0.0	0.0
120	42.397	0.024	0.041	9.34	1.79e-03	20.85	4.01e-03	12.33	2.37e-03	0.0	0.0
121	43.310	0.023	0.041	9.65	1.85e-03	6.04	1.16e-03	4.90	9.42e-04	0.0	0.0
122	43.819	0.023	0.041	0.49	9.41e-05	2.40	4.61e-04	0.05	9.60e-06	0.0	0.0
123	43.882	0.023	0.041	0.46	8.73e-05	8.22	1.58e-03	0.73	1.41e-04	0.0	0.0
124	44.474	0.022	0.041	16.94	3.24e-03	4.82	9.28e-04	5.47	1.05e-03	0.0	0.0
125	45.233	0.022	0.041	1.52	2.91e-04	0.56	1.08e-04	0.91	1.75e-04	0.0	0.0
126	45.570	0.022	0.041	18.57	3.55e-03	0.63	1.22e-04	12.02	2.31e-03	0.0	0.0
127	45.874	0.022	0.041	14.03	2.68e-03	15.40	2.96e-03	17.96	3.46e-03	0.0	0.0
128	46.661	0.021	0.040	5.62	1.08e-03	0.88	1.69e-04	0.01	2.72e-06	0.0	0.0
129	47.056	0.021	0.040	58.06	1.11e-02	36.20	6.96e-03	0.09	1.78e-05	0.0	0.0
130	48.369	0.021	0.040	2.42	4.63e-04	1.61	3.10e-04	2.70e-03	0.0	0.0	0.0
Risulta				5.223e+05		5.195e+05		5.195e+05			
In percentuale				99.90		99.94		99.96			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.080 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.216 sec.
			numero di modi considerati:130
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
680.00	9340.85	950.00	1080.00	95.00	0.0	950.00	1080.00	0.958	0.0	0.0
666.67	204.07	950.00	1040.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
653.33	176.29	950.00	1000.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
640.00	551.85	950.00	1003.65	95.00	0.0	950.00	1020.00	2.988	0.0	0.003
626.67	204.07	950.00	920.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
613.33	176.29	950.00	880.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
600.00	1031.85	950.00	947.08	95.00	0.0	950.00	960.00	2.953	0.0	0.001
586.67	204.07	950.00	800.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
573.33	1.913e+04	950.00	760.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
560.00	1511.85	950.00	888.33	95.00	0.0	950.00	900.00	2.896	0.0	6.8246e-04
546.67	204.07	950.00	680.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
533.33	176.29	950.00	640.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
520.00	1991.85	950.00	828.98	95.00	0.0	950.00	840.00	2.820	0.0	4.8342e-04
506.67	204.07	950.00	560.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
493.33	176.29	950.00	520.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
480.00	7.328e+04	950.00	1069.52	95.00	0.0	950.00	981.73	2.733	0.0	0.005
466.67	1.920e+04	950.00	440.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
453.33	176.29	950.00	400.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
440.00	3491.85	950.00	766.92	95.00	0.0	950.00	946.05	2.623	0.0	0.009
426.67	204.07	950.00	320.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
413.33	176.29	950.00	280.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
400.00	3971.85	950.00	708.32	95.00	0.0	950.00	908.32	2.510	0.0	0.008
386.67	204.07	950.00	200.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
373.33	176.29	950.00	160.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
360.00	2.233e+04	950.00	225.53	95.00	0.0	950.00	143.90	2.391	0.0	0.015
346.67	5172.52	950.00	80.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
333.33	5053.08	950.00	40.00	95.00	0.0	0.0	0.0	0.0	0.0	0.0
320.00	1.747e+05	950.00	1439.29	95.00	0.0	950.00	1886.03	1.663	0.0	0.332
280.00	9610.00	950.00	812.20	95.00	0.0	950.00	158.39	1.532	0.0	0.045
270.00	1.004e+05	1538.20	2124.03	156.95	0.0	993.48	1900.00	1.1525e-05	1.899	72.172
240.00	1.300e+04	950.00	1096.18	95.00	0.0	950.00	1886.03	1.520	0.0	0.586
200.00	1.192e+04	989.57	1039.53	95.00	0.0	1141.94	1868.06	1.463	0.162	0.454
160.00	1.035e+04	1041.15	928.05	95.00	0.0	1141.94	1868.06	1.463	0.107	0.515
120.00	1.103e+04	1035.53	988.06	95.00	0.0	1141.93	1885.74	1.463	0.113	0.737
80.00	1.002e+04	1042.90	1021.03	95.00	0.0	1170.99	1872.49	1.450	0.137	0.572
40.00	1.004e+04	1040.42	1023.11	95.00	0.0	1141.93	1885.74	1.463	0.108	0.708
Risulta	5.198e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.997	0.501	0.057	3.62	6.96e-04	7.528e+04	14.5	9.73	1.87e-03	0.0	0.0
2	2.965	0.337	0.080	1.411e+05	27.2	372.98	7.18e-02	7.42	1.43e-03	0.0	0.0
3	4.032	0.248	0.080	2785.32	0.5	1.157e+05	22.3	3.127e+04	6.0	0.0	0.0
4	4.185	0.239	0.080	106.51	2.05e-02	386.95	7.44e-02	246.50	4.74e-02	0.0	0.0
5	4.265	0.234	0.080	5130.18	1.0	138.97	2.67e-02	246.03	4.73e-02	0.0	0.0
6	4.285	0.233	0.080	5943.23	1.1	55.02	1.06e-02	190.02	3.66e-02	0.0	0.0
7	4.321	0.231	0.080	1.098e+05	21.1	2404.44	0.5	5864.50	1.1	0.0	0.0
8	4.327	0.231	0.080	14.21	2.73e-03	0.03	5.87e-06	4.69	9.02e-04	0.0	0.0
9	4.363	0.229	0.080	1083.38	0.2	188.48	3.63e-02	626.80	0.1	0.0	0.0
10	4.379	0.228	0.080	0.26	5.05e-05	1.77e-04	0.0	3.59	6.91e-04	0.0	0.0
11	4.382	0.228	0.080	3224.02	0.6	9.46	1.82e-03	557.70	0.1	0.0	0.0
12	4.387	0.228	0.080	709.35	0.1	66.03	1.27e-02	302.68	5.82e-02	0.0	0.0
13	4.387	0.228	0.080	128.17	2.47e-02	0.04	8.20e-06	163.25	3.14e-02	0.0	0.0
14	4.392	0.228	0.080	7.85e-03	1.51e-06	1.89e-04	0.0	0.12	2.37e-05	0.0	0.0
15	4.395	0.228	0.080	160.01	3.08e-02	3.70	7.11e-04	4.44	8.55e-04	0.0	0.0
16	4.396	0.227	0.080	0.03	6.52e-06	1.95e-03	0.0	0.10	2.01e-05	0.0	0.0
17	4.397	0.227	0.080	92.02	1.77e-02	2.93	5.63e-04	1.02	1.96e-04	0.0	0.0
18	4.398	0.227	0.080	0.01	2.07e-06	3.19e-04	0.0	0.01	2.54e-06	0.0	0.0
19	4.399	0.227	0.080	6.99	1.34e-03	0.19	3.58e-05	0.04	7.10e-06	0.0	0.0
20	4.399	0.227	0.080	1.36e-04	0.0	1.84e-04	0.0	9.08e-04	0.0	0.0	0.0
21	4.403	0.227	0.080	6.590e+04	12.7	2324.72	0.4	94.99	1.83e-02	0.0	0.0
22	4.406	0.227	0.080	152.93	2.94e-02	284.83	5.48e-02	2148.51	0.4	0.0	0.0
23	4.428	0.226	0.080	527.06	0.1	58.42	1.12e-02	2.79	5.36e-04	0.0	0.0
24	4.436	0.225	0.080	1.627e+04	3.1	930.44	0.2	27.03	5.20e-03	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
25	4.447	0.225	0.080	1.471e+04	2.8	397.46	7.65e-02	93.03	1.79e-02	0.0	0.0
26	4.458	0.224	0.080	59.53	1.15e-02	32.27	6.21e-03	26.78	5.15e-03	0.0	0.0
27	4.462	0.224	0.080	597.13	0.1	26.37	5.07e-03	3.13e-03	0.0	0.0	0.0
28	4.472	0.224	0.080	1583.72	0.3	8.97	1.73e-03	562.75	0.1	0.0	0.0
29	4.488	0.223	0.080	33.24	6.40e-03	0.14	2.75e-05	23.53	4.53e-03	0.0	0.0
30	4.498	0.222	0.080	309.55	5.96e-02	3.01	5.79e-04	373.92	7.19e-02	0.0	0.0
31	4.629	0.216	0.080	5.662e+04	10.9	1.437e+05	27.6	1.124e+04	2.2	0.0	0.0
32	5.324	0.188	0.080	5211.48	1.0	4.275e+04	8.2	8505.09	1.6	0.0	0.0
33	5.780	0.173	0.080	4503.95	0.9	4.73	9.11e-04	1786.95	0.3	0.0	0.0
34	7.248	0.138	0.080	9554.32	1.8	5.613e+04	10.8	6.768e+04	13.0	0.0	0.0
35	7.520	0.133	0.080	3094.73	0.6	1.140e+04	2.2	1.633e+05	31.4	0.0	0.0
36	7.819	0.128	0.080	8.64e-03	1.66e-06	157.34	3.03e-02	6208.10	1.2	0.0	0.0
37	8.053	0.124	0.080	1.223e+04	2.4	6754.50	1.3	93.54	1.80e-02	0.0	0.0
38	8.386	0.119	0.080	3.440e+04	6.6	1.953e+04	3.8	891.41	0.2	0.0	0.0
39	9.047	0.111	0.077	1806.90	0.3	6.32	1.22e-03	21.72	4.18e-03	0.0	0.0
40	9.988	0.100	0.072	2223.56	0.4	454.51	8.74e-02	3080.45	0.6	0.0	0.0
41	10.363	0.096	0.071	417.32	8.03e-02	0.50	9.57e-05	3337.60	0.6	0.0	0.0
42	11.028	0.091	0.069	159.00	3.06e-02	2.059e+04	4.0	4.811e+04	9.3	0.0	0.0
43	11.605	0.086	0.067	307.28	5.91e-02	6631.38	1.3	1728.26	0.3	0.0	0.0
44	12.221	0.082	0.065	1580.38	0.3	115.98	2.23e-02	3022.72	0.6	0.0	0.0
45	12.260	0.082	0.065	426.88	8.21e-02	86.23	1.66e-02	2.850e+04	5.5	0.0	0.0
46	12.551	0.080	0.064	1.44	2.76e-04	77.53	1.49e-02	8.55	1.64e-03	0.0	0.0
47	12.666	0.079	0.064	313.76	6.04e-02	20.29	3.90e-03	1.683e+04	3.2	0.0	0.0
48	13.032	0.077	0.063	2.80	5.39e-04	5.66	1.09e-03	8961.87	1.7	0.0	0.0
49	13.259	0.075	0.062	339.75	6.54e-02	153.22	2.95e-02	4.583e+04	8.8	0.0	0.0
50	13.262	0.075	0.062	18.81	3.62e-03	11.41	2.20e-03	1.269e+04	2.4	0.0	0.0
51	13.539	0.074	0.062	5512.04	1.1	52.77	1.02e-02	1394.71	0.3	0.0	0.0
52	13.981	0.072	0.061	4.27	8.22e-04	1.71	3.29e-04	816.84	0.2	0.0	0.0
53	14.019	0.071	0.061	1.63	3.14e-04	952.60	0.2	2098.86	0.4	0.0	0.0
54	14.859	0.067	0.059	2090.46	0.4	68.13	1.31e-02	28.90	5.56e-03	0.0	0.0
55	15.172	0.066	0.058	0.76	1.47e-04	1.07	2.05e-04	1452.64	0.3	0.0	0.0
56	15.239	0.066	0.058	6.20	1.19e-03	18.32	3.52e-03	73.82	1.42e-02	0.0	0.0
57	15.438	0.065	0.058	0.03	5.04e-06	1.22	2.35e-04	1032.78	0.2	0.0	0.0
58	15.622	0.064	0.058	3.45	6.64e-04	3.15	6.05e-04	5.96	1.15e-03	0.0	0.0
59	15.652	0.064	0.058	0.95	1.84e-04	6.84	1.32e-03	42.16	8.11e-03	0.0	0.0
60	15.659	0.064	0.058	4.78	9.20e-04	60.40	1.16e-02	307.13	5.91e-02	0.0	0.0
61	15.710	0.064	0.058	0.05	9.54e-06	11.89	2.29e-03	0.37	7.16e-05	0.0	0.0
62	15.795	0.063	0.057	0.06	1.20e-05	3.39e-03	0.0	2.73	5.26e-04	0.0	0.0
63	15.838	0.063	0.057	5.18	9.96e-04	1.94e-05	0.0	16.36	3.15e-03	0.0	0.0
64	15.880	0.063	0.057	0.82	1.58e-04	0.64	1.23e-04	1.69	3.26e-04	0.0	0.0
65	15.907	0.063	0.057	2.85	5.48e-04	0.30	5.74e-05	1.02	1.96e-04	0.0	0.0
66	15.925	0.063	0.057	1.13	2.18e-04	0.11	2.06e-05	0.46	8.92e-05	0.0	0.0
67	15.946	0.063	0.057	1.23	2.37e-04	6.42	1.23e-03	66.25	1.27e-02	0.0	0.0
68	16.008	0.062	0.057	0.24	4.68e-05	0.41	7.81e-05	2.95	5.67e-04	0.0	0.0
69	16.035	0.062	0.057	1.73	3.33e-04	6.51	1.25e-03	56.48	1.09e-02	0.0	0.0
70	16.580	0.060	0.056	618.44	0.1	49.60	9.54e-03	3091.78	0.6	0.0	0.0
71	16.654	0.060	0.056	2343.51	0.5	15.70	3.02e-03	423.45	8.15e-02	0.0	0.0
72	17.279	0.058	0.055	1.62	3.13e-04	362.98	6.98e-02	7816.36	1.5	0.0	0.0
73	18.460	0.054	0.054	5.81	1.12e-03	3216.62	0.6	2.009e+04	3.9	0.0	0.0
74	18.604	0.054	0.054	0.17	3.21e-05	0.77	1.48e-04	149.61	2.88e-02	0.0	0.0
75	19.126	0.052	0.053	1046.24	0.2	25.26	4.86e-03	402.74	7.75e-02	0.0	0.0
76	19.914	0.050	0.052	0.03	5.08e-06	60.17	1.16e-02	2250.10	0.4	0.0	0.0
77	20.130	0.050	0.052	6.84	1.32e-03	1557.26	0.3	249.74	4.80e-02	0.0	0.0
78	20.308	0.049	0.052	0.22	4.24e-05	2.77	5.32e-04	143.14	2.75e-02	0.0	0.0
79	21.632	0.046	0.050	34.32	6.60e-03	625.46	0.1	883.64	0.2	0.0	0.0
80	21.997	0.045	0.050	530.22	0.1	70.70	1.36e-02	16.94	3.26e-03	0.0	0.0
81	22.835	0.044	0.049	0.27	5.25e-05	309.09	5.95e-02	63.82	1.23e-02	0.0	0.0
82	23.242	0.043	0.049	0.03	6.18e-06	0.20	3.90e-05	23.29	4.48e-03	0.0	0.0
83	23.412	0.043	0.049	0.07	1.35e-05	3.78e-03	0.0	102.10	1.96e-02	0.0	0.0
84	23.926	0.042	0.049	8.72	1.68e-03	1490.59	0.3	234.57	4.51e-02	0.0	0.0
85	24.941	0.040	0.048	0.05	9.84e-06	1.87e-03	0.0	93.88	1.81e-02	0.0	0.0
86	25.244	0.040	0.048	423.68	8.15e-02	34.12	6.56e-03	21.48	4.13e-03	0.0	0.0
87	26.427	0.038	0.047	2.74	5.27e-04	19.53	3.76e-03	29.72	5.72e-03	0.0	0.0
88	26.455	0.038	0.047	272.31	5.24e-02	13.52	2.60e-03	0.22	4.28e-05	0.0	0.0
89	27.512	0.036	0.046	40.45	7.78e-03	1451.99	0.3	496.50	9.55e-02	0.0	0.0
90	27.576	0.036	0.046	151.39	2.91e-02	434.56	8.36e-02	153.86	2.96e-02	0.0	0.0
91	28.515	0.035	0.046	171.18	3.29e-02	107.55	2.07e-02	117.12	2.25e-02	0.0	0.0
92	29.003	0.034	0.046	0.04	7.22e-06	0.04	7.92e-06	1.12	2.16e-04	0.0	0.0
93	29.129	0.034	0.046	40.51	7.79e-03	36.68	7.06e-03	22.60	4.35e-03	0.0	0.0



Modo	Frequenza	Periodo	Acc. Spetttrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
94	29.436	0.034	0.045	0.55	1.06e-04	22.08	4.25e-03	216.47	4.16e-02	0.0	0.0
95	30.279	0.033	0.045	19.34	3.72e-03	79.97	1.54e-02	13.77	2.65e-03	0.0	0.0
96	30.517	0.033	0.045	3.61	6.95e-04	3.77	7.26e-04	10.28	1.98e-03	0.0	0.0
97	30.956	0.032	0.045	225.87	4.35e-02	42.43	8.16e-03	26.58	5.11e-03	0.0	0.0
98	31.093	0.032	0.045	322.70	6.21e-02	12.31	2.37e-03	0.46	8.87e-05	0.0	0.0
99	31.338	0.032	0.045	110.11	2.12e-02	12.27	2.36e-03	34.29	6.60e-03	0.0	0.0
100	31.737	0.032	0.044	212.51	4.09e-02	9.53	1.83e-03	0.35	6.70e-05	0.0	0.0
101	32.251	0.031	0.044	29.58	5.69e-03	21.41	4.12e-03	15.48	2.98e-03	0.0	0.0
102	32.479	0.031	0.044	0.07	1.31e-05	9.39	1.81e-03	6.59	1.27e-03	0.0	0.0
103	33.029	0.030	0.044	118.65	2.28e-02	109.11	2.10e-02	0.33	6.37e-05	0.0	0.0
104	33.271	0.030	0.044	21.50	4.14e-03	68.85	1.32e-02	7.40	1.42e-03	0.0	0.0
105	33.530	0.030	0.044	0.76	1.46e-04	305.61	5.88e-02	1.56	3.00e-04	0.0	0.0
106	33.545	0.030	0.044	7.73e-04	0.0	0.04	8.11e-06	3.17	6.11e-04	0.0	0.0
107	34.978	0.029	0.043	5.93	1.14e-03	23.98	4.61e-03	18.24	3.51e-03	0.0	0.0
108	34.995	0.029	0.043	30.55	5.88e-03	1.61	3.10e-04	2.85	5.48e-04	0.0	0.0
109	35.706	0.028	0.043	1.13	2.18e-04	0.05	9.52e-06	9.59	1.85e-03	0.0	0.0
110	36.142	0.028	0.043	1.60	3.08e-04	0.55	1.06e-04	15.71	3.02e-03	0.0	0.0
111	36.904	0.027	0.043	436.89	8.41e-02	47.93	9.22e-03	26.25	5.05e-03	0.0	0.0
112	37.134	0.027	0.043	2.65	5.09e-04	73.57	1.42e-02	14.56	2.80e-03	0.0	0.0
113	37.384	0.027	0.043	136.08	2.62e-02	9.92	1.91e-03	0.03	6.01e-06	0.0	0.0
114	37.760	0.026	0.042	7.85e-04	0.0	5.02e-03	0.0	1.89	3.64e-04	0.0	0.0
115	37.877	0.026	0.042	3.46	6.66e-04	2.60	5.01e-04	3.30	6.34e-04	0.0	0.0
116	39.200	0.026	0.042	336.37	6.47e-02	2.87	5.53e-04	10.94	2.11e-03	0.0	0.0
117	40.144	0.025	0.042	0.92	1.77e-04	120.72	2.32e-02	12.85	2.47e-03	0.0	0.0
118	40.337	0.025	0.042	2.54	4.89e-04	1.09	2.09e-04	60.44	1.16e-02	0.0	0.0
119	41.507	0.024	0.041	0.10	1.90e-05	0.13	2.44e-05	20.78	4.00e-03	0.0	0.0
120	41.549	0.024	0.041	105.19	2.02e-02	120.09	2.31e-02	9.42	1.81e-03	0.0	0.0
121	43.285	0.023	0.041	1.39	2.68e-04	1.92	3.69e-04	4.76e-03	0.0	0.0	0.0
122	43.572	0.023	0.041	0.12	2.35e-05	4.47	8.60e-04	21.18	4.08e-03	0.0	0.0
123	43.856	0.023	0.041	12.09	2.33e-03	1.84	3.54e-04	3.16	6.08e-04	0.0	0.0
124	44.057	0.023	0.041	0.89	1.71e-04	0.30	5.77e-05	0.92	1.78e-04	0.0	0.0
125	44.971	0.022	0.041	0.11	2.05e-05	2.75	5.30e-04	22.93	4.41e-03	0.0	0.0
126	45.249	0.022	0.041	1.07	2.06e-04	1.46	2.80e-04	6.22	1.20e-03	0.0	0.0
127	46.382	0.022	0.040	6.67	1.28e-03	25.38	4.88e-03	10.65	2.05e-03	0.0	0.0
128	47.102	0.021	0.040	92.44	1.78e-02	30.13	5.80e-03	0.01	2.53e-06	0.0	0.0
129	47.225	0.021	0.040	0.04	8.41e-06	1.01	1.93e-04	0.18	3.54e-05	0.0	0.0
130	48.031	0.021	0.040	1.23	2.37e-04	5.96	1.15e-03	3.03	5.83e-04	0.0	0.0
Risulta				5.192e+05		5.195e+05		5.195e+05			
In				99.90		99.95		99.96			
percentuale											

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.080 g
			angolo di ingresso: 90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.202 sec.
			numero di modi considerati: 130
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
680.00	9340.85	950.00	1080.00	-95.00	0.0	950.00	1080.00	0.958	0.0	0.0
666.67	204.07	950.00	1040.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
653.33	176.29	950.00	1000.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
640.00	551.85	950.00	1003.65	-95.00	0.0	950.00	1020.00	2.988	0.0	0.003
626.67	204.07	950.00	920.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
613.33	176.29	950.00	880.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
600.00	1031.85	950.00	947.08	-95.00	0.0	950.00	960.00	2.953	0.0	0.001
586.67	204.07	950.00	800.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
573.33	1.913e+04	950.00	760.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
560.00	1511.85	950.00	888.33	-95.00	0.0	950.00	900.00	2.896	0.0	6.8246e-04
546.67	204.07	950.00	680.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
533.33	176.29	950.00	640.00	-95.00	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	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
520.00	1991.85	950.00	828.98	-95.00	0.0	950.00	840.00	2.820	0.0	4.8342e-04
506.67	204.07	950.00	560.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
493.33	176.29	950.00	520.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
480.00	7.328e+04	950.00	1069.52	-95.00	0.0	950.00	981.73	2.733	0.0	0.005
466.67	1.920e+04	950.00	440.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
453.33	176.29	950.00	400.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
440.00	3491.85	950.00	766.92	-95.00	0.0	950.00	946.05	2.623	0.0	0.009
426.67	204.07	950.00	320.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
413.33	176.29	950.00	280.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
400.00	3971.85	950.00	708.32	-95.00	0.0	950.00	908.32	2.510	0.0	0.008
386.67	204.07	950.00	200.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
373.33	176.29	950.00	160.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
360.00	2.233e+04	950.00	225.53	-95.00	0.0	950.00	143.90	2.391	0.0	0.015
346.67	5172.52	950.00	80.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
333.33	5053.08	950.00	40.00	-95.00	0.0	0.0	0.0	0.0	0.0	0.0
320.00	1.747e+05	950.00	1439.29	-95.00	0.0	950.00	1886.03	1.663	0.0	0.332
280.00	9610.00	950.00	812.20	-95.00	0.0	950.00	158.39	1.532	0.0	0.045
270.00	1.004e+05	1538.20	2124.03	-156.95	0.0	993.48	1900.00	1.1525e-05	1.899	72.172
240.00	1.300e+04	950.00	1096.18	-95.00	0.0	950.00	1886.03	1.520	0.0	0.586
200.00	1.192e+04	989.57	1039.53	-95.00	0.0	1141.94	1868.06	1.463	0.162	0.454
160.00	1.035e+04	1041.15	928.05	-95.00	0.0	1141.94	1868.06	1.463	0.107	0.515
120.00	1.103e+04	1035.53	988.06	-95.00	0.0	1141.93	1885.74	1.463	0.113	0.737
80.00	1.002e+04	1042.90	1021.03	-95.00	0.0	1170.99	1872.49	1.450	0.137	0.572
40.00	1.004e+04	1040.42	1023.11	-95.00	0.0	1141.93	1885.74	1.463	0.108	0.708
Risulta	5.198e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.997	0.501	0.057	0.76	1.45e-04	7.474e+04	14.4	9.84	1.89e-03	0.0	0.0
2	2.966	0.337	0.080	1.412e+05	27.2	8.77	1.69e-03	2.53	4.87e-04	0.0	0.0
3	4.059	0.246	0.080	0.60	1.16e-04	8.117e+04	15.6	3.722e+04	7.2	0.0	0.0
4	4.185	0.239	0.080	4.04	7.77e-04	343.93	6.62e-02	450.97	8.68e-02	0.0	0.0
5	4.264	0.235	0.080	7741.07	1.5	1133.73	0.2	7.85	1.51e-03	0.0	0.0
6	4.285	0.233	0.080	4327.16	0.8	1.97	3.79e-04	15.92	3.06e-03	0.0	0.0
7	4.327	0.231	0.080	2.77	5.33e-04	0.05	1.04e-05	1.20	2.31e-04	0.0	0.0
8	4.329	0.231	0.080	1.133e+05	21.8	674.78	0.1	1091.46	0.2	0.0	0.0
9	4.363	0.229	0.080	2854.64	0.5	106.26	2.04e-02	319.99	6.16e-02	0.0	0.0
10	4.379	0.228	0.080	1.22	2.34e-04	0.04	8.28e-06	3.26	6.27e-04	0.0	0.0
11	4.382	0.228	0.080	3376.14	0.6	95.16	1.83e-02	380.85	7.33e-02	0.0	0.0
12	4.387	0.228	0.080	725.22	0.1	0.21	3.97e-05	223.14	4.29e-02	0.0	0.0
13	4.387	0.228	0.080	41.96	8.07e-03	5.21	1.00e-03	155.07	2.98e-02	0.0	0.0
14	4.392	0.228	0.080	0.03	5.83e-06	5.19e-04	0.0	0.10	1.98e-05	0.0	0.0
15	4.395	0.228	0.080	82.56	1.59e-02	0.11	2.20e-05	5.83	1.12e-03	0.0	0.0
16	4.396	0.227	0.080	0.05	9.79e-06	1.87e-04	0.0	0.09	1.66e-05	0.0	0.0
17	4.397	0.227	0.080	33.99	6.54e-03	4.91e-03	0.0	1.66	3.20e-04	0.0	0.0
18	4.398	0.227	0.080	0.01	1.95e-06	6.83e-05	0.0	0.01	2.03e-06	0.0	0.0
19	4.399	0.227	0.080	2.36	4.54e-04	3.51e-05	0.0	0.07	1.31e-05	0.0	0.0
20	4.399	0.227	0.080	5.88e-06	0.0	3.19e-05	0.0	9.38e-04	0.0	0.0	0.0
21	4.405	0.227	0.080	2.501e+04	4.8	100.98	1.94e-02	2911.64	0.6	0.0	0.0
22	4.409	0.227	0.080	5.443e+04	10.5	6.66	1.28e-03	26.12	5.03e-03	0.0	0.0
23	4.428	0.226	0.080	883.12	0.2	2.24	4.31e-04	11.74	2.26e-03	0.0	0.0
24	4.438	0.225	0.080	2.541e+04	4.9	6.44	1.24e-03	7.68	1.48e-03	0.0	0.0
25	4.448	0.225	0.080	2.875e+04	5.5	0.43	8.35e-05	310.85	5.98e-02	0.0	0.0
26	4.458	0.224	0.080	446.82	8.60e-02	1.49	2.88e-04	11.99	2.31e-03	0.0	0.0
27	4.462	0.224	0.080	1388.67	0.3	0.79	1.51e-04	4.16	8.01e-04	0.0	0.0
28	4.472	0.224	0.080	2110.01	0.4	0.18	3.54e-05	636.79	0.1	0.0	0.0
29	4.488	0.223	0.080	33.37	6.42e-03	1.14	2.20e-04	22.82	4.39e-03	0.0	0.0
30	4.498	0.222	0.080	321.18	6.18e-02	18.61	3.58e-03	362.93	6.98e-02	0.0	0.0
31	4.945	0.202	0.080	2257.14	0.4	2.222e+05	42.8	1.718e+04	3.3	0.0	0.0
32	5.315	0.188	0.080	1.539e+04	3.0	1053.45	0.2	868.14	0.2	0.0	0.0
33	5.885	0.170	0.080	1.251e+04	2.4	2104.26	0.4	587.83	0.1	0.0	0.0
34	7.057	0.142	0.080	2287.23	0.4	8.431e+04	16.2	3.762e+04	7.2	0.0	0.0
35	7.502	0.133	0.080	421.20	8.10e-02	6738.36	1.3	1.943e+05	37.4	0.0	0.0
36	7.819	0.128	0.080	6.03	1.16e-03	100.16	1.93e-02	6487.73	1.2	0.0	0.0
37	8.091	0.124	0.080	1.808e+04	3.5	1380.86	0.3	6.54	1.26e-03	0.0	0.0
38	8.468	0.118	0.080	3.462e+04	6.7	3837.07	0.7	271.73	5.23e-02	0.0	0.0
39	9.423	0.106	0.075	399.73	7.69e-02	3055.33	0.6	2877.96	0.6	0.0	0.0
40	10.140	0.099	0.072	1189.09	0.2	70.64	1.36e-02	3119.53	0.6	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
41	10.353	0.097	0.071	836.94	0.2	572.50	0.1	25.75	4.95e-03	0.0	0.0
42	10.922	0.092	0.069	244.60	4.71e-02	1.841e+04	3.5	4.330e+04	8.3	0.0	0.0
43	11.614	0.086	0.067	74.49	1.43e-02	1099.79	0.2	9162.56	1.8	0.0	0.0
44	12.249	0.082	0.065	14.53	2.80e-03	0.24	4.67e-05	3.017e+04	5.8	0.0	0.0
45	12.532	0.080	0.064	325.70	6.27e-02	69.30	1.33e-02	93.32	1.80e-02	0.0	0.0
46	12.618	0.079	0.064	61.14	1.18e-02	50.73	9.76e-03	1.480e+04	2.8	0.0	0.0
47	12.906	0.077	0.063	4708.76	0.9	3262.49	0.6	141.54	2.72e-02	0.0	0.0
48	13.033	0.077	0.063	30.71	5.91e-03	73.78	1.42e-02	7677.70	1.5	0.0	0.0
49	13.262	0.075	0.062	11.08	2.13e-03	8.06	1.55e-03	1.360e+04	2.6	0.0	0.0
50	13.267	0.075	0.062	439.21	8.45e-02	56.21	1.08e-02	4.898e+04	9.4	0.0	0.0
51	13.714	0.073	0.061	2870.70	0.6	415.86	8.00e-02	954.91	0.2	0.0	0.0
52	13.982	0.072	0.061	1.67	3.22e-04	0.59	1.13e-04	665.23	0.1	0.0	0.0
53	14.022	0.071	0.061	9.21	1.77e-03	1146.88	0.2	1895.56	0.4	0.0	0.0
54	14.865	0.067	0.059	2063.79	0.4	10.13	1.95e-03	0.40	7.69e-05	0.0	0.0
55	15.172	0.066	0.058	0.70	1.34e-04	1.06	2.03e-04	1446.48	0.3	0.0	0.0
56	15.232	0.066	0.058	2.04	3.92e-04	32.00	6.16e-03	83.66	1.61e-02	0.0	0.0
57	15.438	0.065	0.058	0.03	6.59e-06	1.10	2.11e-04	1039.29	0.2	0.0	0.0
58	15.620	0.064	0.058	0.40	7.74e-05	6.07	1.17e-03	12.55	2.42e-03	0.0	0.0
59	15.652	0.064	0.058	0.44	8.48e-05	2.73	5.25e-04	18.54	3.57e-03	0.0	0.0
60	15.665	0.064	0.058	19.82	3.81e-03	52.14	1.00e-02	330.68	6.36e-02	0.0	0.0
61	15.711	0.064	0.058	3.01	5.78e-04	10.01	1.93e-03	3.07	5.91e-04	0.0	0.0
62	15.795	0.063	0.057	0.03	5.87e-06	0.04	7.77e-06	2.88	5.54e-04	0.0	0.0
63	15.838	0.063	0.057	4.43	8.52e-04	0.09	1.81e-05	15.55	2.99e-03	0.0	0.0
64	15.880	0.063	0.057	7.55e-03	1.45e-06	1.06	2.05e-04	2.05	3.95e-04	0.0	0.0
65	15.907	0.063	0.057	3.77	7.26e-04	0.28	5.42e-05	0.71	1.37e-04	0.0	0.0
66	15.925	0.063	0.057	1.03	1.99e-04	0.07	1.37e-05	0.52	9.91e-05	0.0	0.0
67	15.947	0.063	0.057	1.19e-03	0.0	5.08	9.77e-04	64.06	1.23e-02	0.0	0.0
68	16.008	0.062	0.057	0.73	1.40e-04	0.47	9.11e-05	3.41	6.56e-04	0.0	0.0
69	16.035	0.062	0.057	6.48	1.25e-03	6.75	1.30e-03	62.35	1.20e-02	0.0	0.0
70	16.590	0.060	0.056	130.29	2.51e-02	40.22	7.74e-03	3657.17	0.7	0.0	0.0
71	16.642	0.060	0.056	2787.82	0.5	33.84	6.51e-03	18.38	3.54e-03	0.0	0.0
72	17.234	0.058	0.055	2.68	5.15e-04	396.88	7.64e-02	7406.02	1.4	0.0	0.0
73	18.452	0.054	0.054	2.41	4.64e-04	3263.12	0.6	2.031e+04	3.9	0.0	0.0
74	18.604	0.054	0.054	0.12	2.40e-05	8.43e-03	1.62e-06	199.29	3.83e-02	0.0	0.0
75	19.128	0.052	0.053	988.59	0.2	73.57	1.42e-02	35.00	6.73e-03	0.0	0.0
76	19.908	0.050	0.052	16.92	3.25e-03	1445.82	0.3	98.70	1.90e-02	0.0	0.0
77	19.912	0.050	0.052	1.11	2.13e-04	0.17	3.23e-05	2675.00	0.5	0.0	0.0
78	20.311	0.049	0.052	1.94	3.74e-04	4.65	8.94e-04	173.70	3.34e-02	0.0	0.0
79	21.728	0.046	0.050	57.34	1.10e-02	293.61	5.65e-02	922.40	0.2	0.0	0.0
80	21.999	0.045	0.050	501.53	9.65e-02	66.53	1.28e-02	39.24	7.55e-03	0.0	0.0
81	22.708	0.044	0.050	0.34	6.61e-05	205.29	3.95e-02	115.24	2.22e-02	0.0	0.0
82	23.242	0.043	0.049	0.04	7.55e-06	0.23	4.51e-05	23.51	4.52e-03	0.0	0.0
83	23.412	0.043	0.049	0.07	1.43e-05	1.09e-03	0.0	101.45	1.95e-02	0.0	0.0
84	24.181	0.041	0.048	6.74	1.30e-03	1537.81	0.3	257.24	4.95e-02	0.0	0.0
85	24.941	0.040	0.048	0.34	6.48e-05	1.82	3.51e-04	94.47	1.82e-02	0.0	0.0
86	25.228	0.040	0.048	427.58	8.23e-02	187.28	3.60e-02	12.77	2.46e-03	0.0	0.0
87	26.422	0.038	0.047	47.97	9.23e-03	29.69	5.71e-03	21.74	4.18e-03	0.0	0.0
88	26.469	0.038	0.047	226.29	4.35e-02	22.18	4.27e-03	2.71	5.21e-04	0.0	0.0
89	27.482	0.036	0.046	97.37	1.87e-02	1244.13	0.2	483.92	9.31e-02	0.0	0.0
90	27.564	0.036	0.046	110.88	2.13e-02	80.55	1.55e-02	37.34	7.18e-03	0.0	0.0
91	28.683	0.035	0.046	121.62	2.34e-02	304.63	5.86e-02	151.60	2.92e-02	0.0	0.0
92	29.003	0.034	0.046	0.06	1.14e-05	0.04	7.89e-06	1.31	2.52e-04	0.0	0.0
93	29.092	0.034	0.046	39.42	7.58e-03	25.71	4.95e-03	76.14	1.46e-02	0.0	0.0
94	29.767	0.034	0.045	40.41	7.77e-03	100.02	1.92e-02	154.53	2.97e-02	0.0	0.0
95	30.124	0.033	0.045	147.30	2.83e-02	284.81	5.48e-02	24.52	4.72e-03	0.0	0.0
96	30.552	0.033	0.045	1.45	2.79e-04	33.43	6.43e-03	3.63	6.99e-04	0.0	0.0
97	30.935	0.032	0.045	388.85	7.48e-02	1.33	2.57e-04	13.73	2.64e-03	0.0	0.0
98	31.278	0.032	0.045	0.20	3.81e-05	46.89	9.02e-03	61.99	1.19e-02	0.0	0.0
99	31.499	0.032	0.045	94.29	1.81e-02	63.70	1.23e-02	14.24	2.74e-03	0.0	0.0
100	31.636	0.032	0.045	246.78	4.75e-02	2.44	4.70e-04	9.59	1.84e-03	0.0	0.0
101	32.281	0.031	0.044	23.96	4.61e-03	30.50	5.87e-03	2.92	5.61e-04	0.0	0.0
102	32.458	0.031	0.044	2.84	5.46e-04	65.63	1.26e-02	13.58	2.61e-03	0.0	0.0
103	32.871	0.030	0.044	114.45	2.20e-02	242.57	4.67e-02	3.47	6.68e-04	0.0	0.0
104	33.279	0.030	0.044	6.37	1.23e-03	173.87	3.35e-02	5.65	1.09e-03	0.0	0.0
105	33.379	0.030	0.044	27.71	5.33e-03	53.44	1.03e-02	0.48	9.32e-05	0.0	0.0
106	33.545	0.030	0.044	1.06e-03	0.0	8.76e-03	1.69e-06	3.21	6.18e-04	0.0	0.0
107	34.892	0.029	0.043	2.80	5.39e-04	18.21	3.50e-03	14.77	2.84e-03	0.0	0.0
108	35.100	0.028	0.043	16.55	3.18e-03	0.59	1.13e-04	0.51	9.76e-05	0.0	0.0
109	35.756	0.028	0.043	1.01	1.95e-04	0.08	1.56e-05	6.52	1.25e-03	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
110	36.114	0.028	0.043	7.65	1.47e-03	1.85	3.55e-04	21.66	4.17e-03	0.0	0.0
111	37.112	0.027	0.043	239.10	4.60e-02	98.73	1.90e-02	31.11	5.98e-03	0.0	0.0
112	37.246	0.027	0.043	305.15	5.87e-02	21.03	4.05e-03	0.73	1.41e-04	0.0	0.0
113	37.397	0.027	0.043	16.31	3.14e-03	5.58	1.07e-03	1.01	1.95e-04	0.0	0.0
114	37.760	0.026	0.042	6.64e-04	0.0	4.66e-03	0.0	1.91	3.68e-04	0.0	0.0
115	38.159	0.026	0.042	43.53	8.37e-03	4.51	8.68e-04	5.10	9.81e-04	0.0	0.0
116	38.929	0.026	0.042	288.01	5.54e-02	44.77	8.61e-03	8.86	1.71e-03	0.0	0.0
117	40.242	0.025	0.042	4.60	8.84e-04	130.44	2.51e-02	49.72	9.57e-03	0.0	0.0
118	40.380	0.025	0.042	6.08	1.17e-03	61.81	1.19e-02	25.79	4.96e-03	0.0	0.0
119	41.330	0.024	0.041	25.12	4.83e-03	29.98	5.77e-03	4.62	8.89e-04	0.0	0.0
120	41.680	0.024	0.041	87.48	1.68e-02	52.02	1.00e-02	25.63	4.93e-03	0.0	0.0
121	42.833	0.023	0.041	52.92	1.02e-02	5.22	1.00e-03	7.96	1.53e-03	0.0	0.0
122	43.267	0.023	0.041	6.05	1.16e-03	3.07	5.90e-04	3.24	6.24e-04	0.0	0.0
123	43.669	0.023	0.041	25.57	4.92e-03	29.24	5.63e-03	12.84	2.47e-03	0.0	0.0
124	43.979	0.023	0.041	0.78	1.50e-04	0.22	4.23e-05	0.45	8.58e-05	0.0	0.0
125	45.055	0.022	0.041	0.51	9.79e-05	1.33	2.55e-04	31.58	6.08e-03	0.0	0.0
126	45.366	0.022	0.041	11.11	2.14e-03	3.76e-03	0.0	2.34	4.50e-04	0.0	0.0
127	46.073	0.022	0.040	1.09	2.10e-04	55.78	1.07e-02	8.61	1.66e-03	0.0	0.0
128	47.113	0.021	0.040	20.20	3.89e-03	4.66e-04	0.0	0.89	1.72e-04	0.0	0.0
129	47.250	0.021	0.040	46.35	8.92e-03	4.31	8.30e-04	0.14	2.60e-05	0.0	0.0
130	47.829	0.021	0.040	0.70	1.34e-04	25.82	4.97e-03	0.15	2.86e-05	0.0	0.0
Risulta				5.192e+05		5.195e+05		5.195e+05			
In percentuale				99.90		99.95		99.96			

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
			cm	cm			cm	cm			cm	cm
79	1	3.46	0.69	200.0	2	0.71	0.11	160.0	3	3.41	0.68	200.0
	4	0.81	0.13	160.0	5	3.46	0.69	200.0	6	0.92	0.15	160.0
	7	3.55	0.71	200.0	8	1.04	0.17	160.0	9	3.63	0.73	200.0
	10	1.14	0.18	160.0	11	3.69	0.74	200.0	12	1.23	0.20	160.0
	13	3.72	0.74	200.0	14	1.26	0.20	160.0	15	3.72	0.74	200.0
	16	1.24	0.20	160.0	17	3.70	0.74	200.0	18	1.21	0.19	160.0
	19	3.65	0.73	200.0	20	1.15	0.18	160.0	21	3.57	0.71	200.0
	22	1.06	0.17	160.0	23	3.48	0.70	200.0	24	0.94	0.15	160.0
	25	3.42	0.68	200.0	26	0.81	0.13	160.0	27	3.46	0.69	200.0
	28	0.68	0.11	160.0	288	0.36	0.11	295.0	289	0.34	0.10	295.0
	290	0.41	0.12	295.0	291	0.39	0.12	295.0	292	0.46	0.14	295.0
	293	0.45	0.13	295.0	294	0.52	0.15	295.0	295	0.51	0.15	295.0
	296	0.30	0.09	295.0	297	0.28	0.08	295.0	298	0.23	0.07	295.0
	299	0.21	0.06	295.0	300	0.20	0.06	295.0	516	0.07	3.94e-03	58.7
	517	0.19	0.01	58.7	518	0.15	5.85e-03	40.0	519	0.20	7.83e-03	40.0
	520	0.11	5.94e-03	55.0	521	0.20	0.01	55.0	522	0.18	7.29e-03	40.0
	523	0.19	7.78e-03	40.0	524	0.22	8.82e-03	40.0	525	0.95	0.04	40.0
	526	0.51	0.02	40.0	527	0.23	9.31e-03	40.0	528	0.29	0.01	40.0
	529	0.39	0.02	40.0	530	0.34	0.01	40.0	531	0.29	0.01	40.0
	532	0.39	0.02	40.0	533	0.33	0.01	40.0	534	0.46	0.02	40.0
	535	0.38	0.02	40.0	536	0.55	0.02	40.0	537	0.48	0.02	40.0
	538	0.68	0.03	40.0	539	0.63	0.03	40.0	540	0.61	0.02	40.0
	541	0.55	0.02	40.0	542	0.65	0.03	40.0	543	0.59	0.02	40.0
80	1	3.32	0.66	200.0	2	0.55	0.09	160.0	3	3.28	0.66	200.0
	4	0.55	0.09	160.0	5	3.35	0.67	200.0	6	0.59	0.09	160.0
	7	3.43	0.69	200.0	8	0.65	0.10	160.0	9	3.51	0.70	200.0
	10	0.70	0.11	160.0	11	3.58	0.72	200.0	12	0.73	0.12	160.0
	13	3.65	0.73	200.0	14	0.62	0.10	160.0	15	3.65	0.73	200.0
	16	0.62	0.10	160.0	17	3.65	0.73	200.0	18	0.58	0.09	160.0
	19	3.60	0.72	200.0	20	0.55	0.09	160.0	21	3.55	0.71	200.0
	22	0.54	0.09	160.0	23	3.50	0.70	200.0	24	0.59	0.09	160.0
	25	3.38	0.68	200.0	26	0.54	0.09	160.0	27	3.39	0.68	200.0
	28	0.52	0.08	160.0	288	0.30	0.09	295.0	289	0.31	0.09	295.0
	290	0.31	0.09	295.0	291	0.32	0.09	295.0	292	0.32	0.09	295.0
	293	0.33	0.10	295.0	294	0.33	0.10	295.0	295	0.34	0.10	295.0
	296	0.30	0.09	295.0	297	0.29	0.09	295.0	298	0.27	0.08	295.0
	299	0.27	0.08	295.0	300	0.27	0.08	295.0	516	0.13	7.61e-03	58.7
	517	0.21	0.01	58.7	518	0.13	5.35e-03	40.0	519	0.19	7.62e-03	40.0
	520	0.10	5.33e-03	55.0	521	0.20	0.01	55.0	522	0.17	6.71e-03	40.0
	523	0.19	7.61e-03	40.0	524	0.20	8.17e-03	40.0	525	0.59	0.02	40.0
	526	0.51	0.02	40.0	527	0.23	9.10e-03	40.0	528	0.27	0.01	40.0



Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
	529	0.14	5.47e-03	40.0	530	0.32	0.01	40.0	531	0.26	0.01	40.0
	532	0.37	0.01	40.0	533	0.30	0.01	40.0	534	0.43	0.02	40.0
	535	0.35	0.01	40.0	536	0.51	0.02	40.0	537	0.44	0.02	40.0
	538	0.63	0.03	40.0	539	0.57	0.02	40.0	540	0.56	0.02	40.0
	541	0.50	0.02	40.0	542	0.60	0.02	40.0	543	0.54	0.02	40.0
81	1	3.33	0.67	200.0	2	0.64	0.10	160.0	3	3.29	0.66	200.0
	4	0.80	0.13	160.0	5	3.36	0.67	200.0	6	0.95	0.15	160.0
	7	3.45	0.69	200.0	8	1.07	0.17	160.0	9	3.52	0.70	200.0
	10	1.16	0.19	160.0	11	3.58	0.72	200.0	12	1.21	0.19	160.0
	13	3.60	0.72	200.0	14	1.24	0.20	160.0	15	3.60	0.72	200.0
	16	1.25	0.20	160.0	17	3.58	0.72	200.0	18	1.21	0.19	160.0
	19	3.52	0.70	200.0	20	1.11	0.18	160.0	21	3.45	0.69	200.0
	22	1.00	0.16	160.0	23	3.36	0.67	200.0	24	0.86	0.14	160.0
	25	3.30	0.66	200.0	26	0.72	0.11	160.0	27	3.35	0.67	200.0
	28	0.59	0.09	160.0	288	0.19	0.06	295.0	289	0.19	0.06	295.0
	290	0.17	0.05	295.0	291	0.18	0.05	295.0	292	0.17	0.05	295.0
	293	0.17	0.05	295.0	294	0.16	0.05	295.0	295	0.17	0.05	295.0
	296	0.19	0.06	295.0	297	0.20	0.06	295.0	298	0.23	0.07	295.0
	299	0.23	0.07	295.0	300	0.23	0.07	295.0	516	0.06	3.54e-03	58.7
	517	0.16	9.23e-03	58.7	518	0.12	4.92e-03	40.0	519	0.13	5.15e-03	40.0
	520	0.13	7.06e-03	55.0	521	0.14	7.61e-03	55.0	522	0.12	4.71e-03	40.0
	523	0.13	5.16e-03	40.0	524	0.11	4.55e-03	40.0	525	0.71	0.03	40.0
	526	0.67	0.03	40.0	527	0.14	5.56e-03	40.0	528	0.15	6.14e-03	40.0
	529	0.09	3.51e-03	40.0	530	0.17	6.61e-03	40.0	531	0.21	8.39e-03	40.0
	532	0.20	7.81e-03	40.0	533	0.26	0.01	40.0	534	0.25	0.01	40.0
	535	0.33	0.01	40.0	536	0.35	0.01	40.0	537	0.41	0.02	40.0
	538	0.50	0.02	40.0	539	0.55	0.02	40.0	540	0.42	0.02	40.0
	541	0.48	0.02	40.0	542	0.46	0.02	40.0	543	0.52	0.02	40.0
82	1	3.55	0.71	200.0	2	0.48	0.08	160.0	3	3.53	0.71	200.0
	4	0.50	0.08	160.0	5	3.63	0.73	200.0	6	0.54	0.09	160.0
	7	3.69	0.74	200.0	8	0.51	0.08	160.0	9	3.74	0.75	200.0
	10	0.53	0.08	160.0	11	3.79	0.76	200.0	12	0.56	0.09	160.0
	13	3.77	0.75	200.0	14	0.71	0.11	160.0	15	3.76	0.75	200.0
	16	0.72	0.11	160.0	17	3.73	0.75	200.0	18	0.71	0.11	160.0
	19	3.66	0.73	200.0	20	0.68	0.11	160.0	21	3.58	0.72	200.0
	22	0.63	0.10	160.0	23	3.50	0.70	200.0	24	0.57	0.09	160.0
	25	3.43	0.69	200.0	26	0.52	0.08	160.0	27	3.48	0.70	200.0
	28	0.51	0.08	160.0	288	0.12	0.04	295.0	289	0.09	0.03	295.0
	290	0.16	0.05	295.0	291	0.13	0.04	295.0	292	0.21	0.06	295.0
	293	0.19	0.06	295.0	294	0.28	0.08	295.0	295	0.26	0.08	295.0
	296	0.09	0.03	295.0	297	0.09	0.03	295.0	298	0.14	0.04	295.0
	299	0.14	0.04	295.0	300	0.14	0.04	295.0	516	0.19	0.01	58.7
	517	0.15	8.67e-03	58.7	518	0.12	4.63e-03	40.0	519	0.11	4.37e-03	40.0
	520	0.12	6.67e-03	55.0	521	0.12	6.76e-03	55.0	522	0.09	3.62e-03	40.0
	523	0.11	4.30e-03	40.0	524	0.11	4.36e-03	40.0	525	0.40	0.02	40.0
	526	0.66	0.03	40.0	527	0.12	4.78e-03	40.0	528	0.15	6.08e-03	40.0
	529	0.30	0.01	40.0	530	0.17	6.72e-03	40.0	531	0.20	8.11e-03	40.0
	532	0.20	8.10e-03	40.0	533	0.27	0.01	40.0	534	0.26	0.01	40.0
	535	0.34	0.01	40.0	536	0.36	0.01	40.0	537	0.43	0.02	40.0
	538	0.53	0.02	40.0	539	0.58	0.02	40.0	540	0.44	0.02	40.0
	541	0.50	0.02	40.0	542	0.49	0.02	40.0	543	0.55	0.02	40.0
83	1	3.32	0.66	200.0	2	0.69	0.11	160.0	3	3.28	0.66	200.0
	4	0.79	0.13	160.0	5	3.34	0.67	200.0	6	0.91	0.15	160.0
	7	3.44	0.69	200.0	8	1.03	0.16	160.0	9	3.52	0.70	200.0
	10	1.13	0.18	160.0	11	3.63	0.73	200.0	12	1.22	0.19	160.0
	13	3.66	0.73	200.0	14	1.25	0.20	160.0	15	3.67	0.73	200.0
	16	1.23	0.20	160.0	17	3.65	0.73	200.0	18	1.19	0.19	160.0
	19	3.60	0.72	200.0	20	1.14	0.18	160.0	21	3.54	0.71	200.0
	22	1.05	0.17	160.0	23	3.45	0.69	200.0	24	0.94	0.15	160.0
	25	3.39	0.68	200.0	26	0.81	0.13	160.0	27	3.44	0.69	200.0
	28	0.69	0.11	160.0	288	0.36	0.11	295.0	289	0.34	0.10	295.0
	290	0.40	0.12	295.0	291	0.38	0.11	295.0	292	0.43	0.13	295.0
	293	0.42	0.13	295.0	294	0.48	0.14	295.0	295	0.46	0.14	295.0
	296	0.32	0.09	295.0	297	0.29	0.09	295.0	298	0.25	0.07	295.0
	299	0.23	0.07	295.0	300	0.22	0.06	295.0	516	0.08	4.50e-03	58.7
	517	0.19	0.01	58.7	518	0.15	5.98e-03	40.0	519	0.20	7.81e-03	40.0
	520	0.11	6.15e-03	55.0	521	0.20	0.01	55.0	522	0.18	7.36e-03	40.0
	523	0.19	7.77e-03	40.0	524	0.22	8.83e-03	40.0	525	0.95	0.04	40.0
	526	0.50	0.02	40.0	527	0.23	9.33e-03	40.0	528	0.29	0.01	40.0
	529	0.25	0.01	40.0	530	0.33	0.01	40.0	531	0.28	0.01	40.0



Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
	532	0.39	0.02	40.0	533	0.32	0.01	40.0	534	0.45	0.02	40.0
	535	0.37	0.01	40.0	536	0.53	0.02	40.0	537	0.46	0.02	40.0
	538	0.67	0.03	40.0	539	0.71	0.03	40.0	540	0.60	0.02	40.0
	541	0.53	0.02	40.0	542	0.64	0.03	40.0	543	0.57	0.02	40.0
84	1	3.46	0.69	200.0	2	0.57	0.09	160.0	3	3.41	0.68	200.0
	4	0.57	0.09	160.0	5	3.47	0.69	200.0	6	0.61	0.10	160.0
	7	3.55	0.71	200.0	8	0.67	0.11	160.0	9	3.62	0.72	200.0
	10	0.72	0.12	160.0	11	3.64	0.73	200.0	12	0.75	0.12	160.0
	13	3.70	0.74	200.0	14	0.64	0.10	160.0	15	3.71	0.74	200.0
	16	0.63	0.10	160.0	17	3.69	0.74	200.0	18	0.59	0.09	160.0
	19	3.64	0.73	200.0	20	0.54	0.09	160.0	21	3.58	0.72	200.0
	22	0.54	0.09	160.0	23	3.53	0.71	200.0	24	0.59	0.09	160.0
	25	3.41	0.68	200.0	26	0.53	0.09	160.0	27	3.41	0.68	200.0
	28	0.52	0.08	160.0	288	0.29	0.08	295.0	289	0.29	0.09	295.0
	290	0.30	0.09	295.0	291	0.31	0.09	295.0	292	0.32	0.10	295.0
	293	0.34	0.10	295.0	294	0.35	0.10	295.0	295	0.35	0.10	295.0
	296	0.28	0.08	295.0	297	0.27	0.08	295.0	298	0.25	0.07	295.0
	299	0.24	0.07	295.0	300	0.24	0.07	295.0	516	0.09	5.45e-03	58.7
	517	0.21	0.01	58.7	518	0.13	5.23e-03	40.0	519	0.19	7.62e-03	40.0
	520	0.09	5.12e-03	55.0	521	0.20	0.01	55.0	522	0.17	6.64e-03	40.0
	523	0.19	7.61e-03	40.0	524	0.20	8.17e-03	40.0	525	0.75	0.03	40.0
	526	0.52	0.02	40.0	527	0.23	9.07e-03	40.0	528	0.28	0.01	40.0
	529	0.25	9.84e-03	40.0	530	0.32	0.01	40.0	531	0.27	0.01	40.0
	532	0.38	0.02	40.0	533	0.31	0.01	40.0	534	0.44	0.02	40.0
	535	0.36	0.01	40.0	536	0.52	0.02	40.0	537	0.45	0.02	40.0
	538	0.64	0.03	40.0	539	0.50	0.02	40.0	540	0.58	0.02	40.0
	541	0.52	0.02	40.0	542	0.61	0.02	40.0	543	0.57	0.02	40.0
85	1	3.47	0.69	200.0	2	0.64	0.10	160.0	3	3.42	0.68	200.0
	4	0.80	0.13	160.0	5	3.48	0.70	200.0	6	0.95	0.15	160.0
	7	3.57	0.71	200.0	8	1.07	0.17	160.0	9	3.63	0.73	200.0
	10	1.16	0.19	160.0	11	3.64	0.73	200.0	12	1.21	0.19	160.0
	13	3.66	0.73	200.0	14	1.24	0.20	160.0	15	3.65	0.73	200.0
	16	1.25	0.20	160.0	17	3.62	0.72	200.0	18	1.20	0.19	160.0
	19	3.56	0.71	200.0	20	1.10	0.18	160.0	21	3.48	0.70	200.0
	22	0.99	0.16	160.0	23	3.38	0.68	200.0	24	0.85	0.14	160.0
	25	3.32	0.66	200.0	26	0.71	0.11	160.0	27	3.36	0.67	200.0
	28	0.59	0.09	160.0	288	0.15	0.05	295.0	289	0.16	0.05	295.0
	290	0.14	0.04	295.0	291	0.14	0.04	295.0	292	0.14	0.04	295.0
	293	0.14	0.04	295.0	294	0.14	0.04	295.0	295	0.14	0.04	295.0
	296	0.17	0.05	295.0	297	0.18	0.05	295.0	298	0.22	0.07	295.0
	299	0.22	0.07	295.0	300	0.22	0.07	295.0	516	0.10	5.99e-03	58.7
	517	0.16	9.20e-03	58.7	518	0.13	5.07e-03	40.0	519	0.13	5.09e-03	40.0
	520	0.13	7.23e-03	55.0	521	0.14	7.55e-03	55.0	522	0.12	4.88e-03	40.0
	523	0.13	5.09e-03	40.0	524	0.12	4.74e-03	40.0	525	0.71	0.03	40.0
	526	0.68	0.03	40.0	527	0.14	5.46e-03	40.0	528	0.16	6.38e-03	40.0
	529	0.17	6.92e-03	40.0	530	0.17	6.91e-03	40.0	531	0.22	8.68e-03	40.0
	532	0.20	8.18e-03	40.0	533	0.27	0.01	40.0	534	0.26	0.01	40.0
	535	0.34	0.01	40.0	536	0.36	0.01	40.0	537	0.43	0.02	40.0
	538	0.51	0.02	40.0	539	0.47	0.02	40.0	540	0.43	0.02	40.0
	541	0.50	0.02	40.0	542	0.47	0.02	40.0	543	0.54	0.02	40.0
86	1	3.41	0.68	200.0	2	0.47	0.08	160.0	3	3.40	0.68	200.0
	4	0.49	0.08	160.0	5	3.51	0.70	200.0	6	0.52	0.08	160.0
	7	3.57	0.71	200.0	8	0.50	0.08	160.0	9	3.63	0.73	200.0
	10	0.52	0.08	160.0	11	3.73	0.75	200.0	12	0.56	0.09	160.0
	13	3.71	0.74	200.0	14	0.71	0.11	160.0	15	3.71	0.74	200.0
	16	0.70	0.11	160.0	17	3.69	0.74	200.0	18	0.69	0.11	160.0
	19	3.63	0.73	200.0	20	0.67	0.11	160.0	21	3.55	0.71	200.0
	22	0.62	0.10	160.0	23	3.48	0.70	200.0	24	0.56	0.09	160.0
	25	3.42	0.68	200.0	26	0.52	0.08	160.0	27	3.47	0.69	200.0
	28	0.52	0.08	160.0	288	0.15	0.04	295.0	289	0.11	0.03	295.0
	290	0.16	0.05	295.0	291	0.13	0.04	295.0	292	0.20	0.06	295.0
	293	0.17	0.05	295.0	294	0.24	0.07	295.0	295	0.22	0.06	295.0
	296	0.11	0.03	295.0	297	0.12	0.03	295.0	298	0.15	0.04	295.0
	299	0.15	0.04	295.0	300	0.14	0.04	295.0	516	0.15	9.05e-03	58.7
	517	0.15	8.68e-03	58.7	518	0.11	4.48e-03	40.0	519	0.11	4.43e-03	40.0
	520	0.12	6.51e-03	55.0	521	0.12	6.82e-03	55.0	522	0.07	2.78e-03	40.0
	523	0.11	4.37e-03	40.0	524	0.10	4.16e-03	40.0	525	0.57	0.02	40.0
	526	0.66	0.03	40.0	527	0.12	4.88e-03	40.0	528	0.15	5.81e-03	40.0
	529	0.15	6.06e-03	40.0	530	0.16	6.40e-03	40.0	531	0.21	8.23e-03	40.0
	532	0.19	7.70e-03	40.0	533	0.26	0.01	40.0	534	0.25	0.01	40.0

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
	535	0.33	0.01	40.0	536	0.35	0.01	40.0	537	0.42	0.02	40.0
	538	0.51	0.02	40.0	539	0.66	0.03	40.0	540	0.42	0.02	40.0
	541	0.48	0.02	40.0	542	0.47	0.02	40.0	543	0.52	0.02	40.0
87	1	3.35	0.67	200.0	2	0.74	0.12	160.0	3	3.29	0.66	200.0
	4	0.84	0.13	160.0	5	3.34	0.67	200.0	6	0.95	0.15	160.0
	7	3.44	0.69	200.0	8	1.07	0.17	160.0	9	3.52	0.70	200.0
	10	1.17	0.19	160.0	11	3.58	0.72	200.0	12	1.28	0.20	160.0
	13	3.61	0.72	200.0	14	1.29	0.21	160.0	15	3.62	0.72	200.0
	16	1.27	0.20	160.0	17	3.60	0.72	200.0	18	1.25	0.20	160.0
	19	3.54	0.71	200.0	20	1.19	0.19	160.0	21	3.46	0.69	200.0
	22	1.10	0.18	160.0	23	3.37	0.67	200.0	24	0.98	0.16	160.0
	25	3.30	0.66	200.0	26	0.84	0.13	160.0	27	3.35	0.67	200.0
	28	0.71	0.11	160.0	288	0.36	0.11	295.0	289	0.34	0.10	295.0
	290	0.39	0.12	295.0	291	0.38	0.11	295.0	292	0.44	0.13	295.0
	293	0.43	0.13	295.0	294	0.49	0.14	295.0	295	0.48	0.14	295.0
	296	0.31	0.09	295.0	297	0.29	0.09	295.0	298	0.28	0.08	295.0
	299	0.24	0.07	295.0	300	0.23	0.07	295.0	516	0.05	3.10e-03	58.7
	517	0.20	0.01	58.7	518	0.13	5.39e-03	40.0	519	0.21	8.25e-03	40.0
	520	0.09	5.09e-03	55.0	521	0.21	0.01	55.0	522	0.18	7.01e-03	40.0
	523	0.21	8.20e-03	40.0	524	0.22	8.74e-03	40.0	525	0.21	8.40e-03	40.0
	526	0.26	0.01	40.0	527	0.22	8.93e-03	40.0	528	0.31	0.01	40.0
	529	0.39	0.02	40.0	530	0.36	0.01	40.0	531	0.85	0.03	40.0
	532	0.62	0.02	40.0	533	0.34	0.01	40.0	534	0.49	0.02	40.0
	535	0.41	0.02	40.0	536	0.58	0.02	40.0	537	0.51	0.02	40.0
	538	0.72	0.03	40.0	539	0.66	0.03	40.0	540	0.65	0.03	40.0
	541	0.58	0.02	40.0	542	0.69	0.03	40.0	543	0.63	0.03	40.0
88	1	3.21	0.64	200.0	2	0.59	0.10	160.0	3	3.17	0.63	200.0
	4	0.59	0.09	160.0	5	3.24	0.65	200.0	6	0.63	0.10	160.0
	7	3.32	0.66	200.0	8	0.68	0.11	160.0	9	3.41	0.68	200.0
	10	0.73	0.12	160.0	11	3.49	0.70	200.0	12	0.64	0.10	160.0
	13	3.54	0.71	200.0	14	0.67	0.11	160.0	15	3.55	0.71	200.0
	16	0.66	0.11	160.0	17	3.54	0.71	200.0	18	0.63	0.10	160.0
	19	3.49	0.70	200.0	20	0.59	0.10	160.0	21	3.43	0.69	200.0
	22	0.58	0.09	160.0	23	3.38	0.68	200.0	24	0.61	0.10	160.0
	25	3.26	0.65	200.0	26	0.58	0.09	160.0	27	3.28	0.66	200.0
	28	0.56	0.09	160.0	288	0.32	0.09	295.0	289	0.33	0.10	295.0
	290	0.32	0.09	295.0	291	0.33	0.10	295.0	292	0.32	0.09	295.0
	293	0.34	0.10	295.0	294	0.32	0.10	295.0	295	0.34	0.10	295.0
	296	0.32	0.09	295.0	297	0.31	0.09	295.0	298	0.31	0.09	295.0
	299	0.30	0.09	295.0	300	0.30	0.09	295.0	516	0.12	7.28e-03	58.7
	517	0.22	0.01	58.7	518	0.12	4.89e-03	40.0	519	0.20	7.99e-03	40.0
	520	0.08	4.48e-03	55.0	521	0.21	0.01	55.0	522	0.16	6.44e-03	40.0
	523	0.20	7.99e-03	40.0	524	0.20	8.10e-03	40.0	525	0.20	7.89e-03	40.0
	526	0.25	9.85e-03	40.0	527	0.22	8.83e-03	40.0	528	0.29	0.01	40.0
	529	0.11	4.58e-03	40.0	530	0.34	0.01	40.0	531	0.83	0.03	40.0
	532	0.62	0.02	40.0	533	0.32	0.01	40.0	534	0.46	0.02	40.0
	535	0.37	0.01	40.0	536	0.54	0.02	40.0	537	0.47	0.02	40.0
	538	0.67	0.03	40.0	539	0.61	0.02	40.0	540	0.60	0.02	40.0
	541	0.54	0.02	40.0	542	0.64	0.03	40.0	543	0.58	0.02	40.0
89	1	3.22	0.64	200.0	2	0.66	0.11	160.0	3	3.18	0.64	200.0
	4	0.82	0.13	160.0	5	3.25	0.65	200.0	6	0.97	0.15	160.0
	7	3.34	0.67	200.0	8	1.09	0.17	160.0	9	3.42	0.68	200.0
	10	1.18	0.19	160.0	11	3.48	0.70	200.0	12	1.20	0.19	160.0
	13	3.50	0.70	200.0	14	1.26	0.20	160.0	15	3.49	0.70	200.0
	16	1.26	0.20	160.0	17	3.47	0.69	200.0	18	1.21	0.19	160.0
	19	3.41	0.68	200.0	20	1.12	0.18	160.0	21	3.34	0.67	200.0
	22	1.00	0.16	160.0	23	3.24	0.65	200.0	24	0.87	0.14	160.0
	25	3.18	0.64	200.0	26	0.74	0.12	160.0	27	3.24	0.65	200.0
	28	0.62	0.10	160.0	288	0.22	0.07	295.0	289	0.23	0.07	295.0
	290	0.21	0.06	295.0	291	0.22	0.07	295.0	292	0.20	0.06	295.0
	293	0.22	0.06	295.0	294	0.20	0.06	295.0	295	0.21	0.06	295.0
	296	0.23	0.07	295.0	297	0.23	0.07	295.0	298	0.22	0.07	295.0
	299	0.25	0.07	295.0	300	0.25	0.07	295.0	516	0.08	4.71e-03	58.7
	517	0.14	8.50e-03	58.7	518	0.14	5.48e-03	40.0	519	0.11	4.55e-03	40.0
	520	0.14	7.77e-03	55.0	521	0.12	6.78e-03	55.0	522	0.13	5.25e-03	40.0
	523	0.12	4.68e-03	40.0	524	0.13	5.05e-03	40.0	525	0.13	5.39e-03	40.0
	526	0.13	5.04e-03	40.0	527	0.17	6.63e-03	40.0	528	0.13	5.30e-03	40.0
	529	0.12	4.92e-03	40.0	530	0.15	6.09e-03	40.0	531	0.61	0.02	40.0
	532	0.67	0.03	40.0	533	0.28	0.01	40.0	534	0.27	0.01	40.0
	535	0.35	0.01	40.0	536	0.37	0.01	40.0	537	0.45	0.02	40.0

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
	538	0.53	0.02	40.0	539	0.59	0.02	40.0	540	0.45	0.02	40.0
	541	0.51	0.02	40.0	542	0.49	0.02	40.0	543	0.56	0.02	40.0
90	1	3.44	0.69	200.0	2	0.52	0.08	160.0	3	3.42	0.68	200.0
	4	0.54	0.09	160.0	5	3.52	0.70	200.0	6	0.57	0.09	160.0
	7	3.58	0.72	200.0	8	0.55	0.09	160.0	9	3.64	0.73	200.0
	10	0.57	0.09	160.0	11	3.67	0.73	200.0	12	0.72	0.12	160.0
	13	3.67	0.73	200.0	14	0.74	0.12	160.0	15	3.66	0.73	200.0
	16	0.74	0.12	160.0	17	3.63	0.73	200.0	18	0.73	0.12	160.0
	19	3.56	0.71	200.0	20	0.70	0.11	160.0	21	3.47	0.69	200.0
	22	0.65	0.10	160.0	23	3.39	0.68	200.0	24	0.59	0.10	160.0
	25	3.32	0.66	200.0	26	0.56	0.09	160.0	27	3.37	0.67	200.0
	28	0.55	0.09	160.0	288	0.14	0.04	295.0	289	0.12	0.03	295.0
	290	0.16	0.05	295.0	291	0.13	0.04	295.0	292	0.20	0.06	295.0
	293	0.18	0.05	295.0	294	0.25	0.07	295.0	295	0.23	0.07	295.0
	296	0.12	0.03	295.0	297	0.12	0.04	295.0	298	0.13	0.04	295.0
	299	0.15	0.04	295.0	300	0.15	0.04	295.0	516	0.20	0.01	58.7
	517	0.14	8.02e-03	58.7	518	0.12	4.78e-03	40.0	519	0.09	3.77e-03	40.0
	520	0.13	7.34e-03	55.0	521	0.11	5.97e-03	55.0	522	0.12	4.97e-03	40.0
	523	0.10	3.81e-03	40.0	524	0.12	4.85e-03	40.0	525	0.11	4.54e-03	40.0
	526	0.12	4.97e-03	40.0	527	0.14	5.80e-03	40.0	528	0.14	5.41e-03	40.0
	529	0.32	0.01	40.0	530	0.16	6.39e-03	40.0	531	0.64	0.03	40.0
	532	0.66	0.03	40.0	533	0.29	0.01	40.0	534	0.29	0.01	40.0
	535	0.37	0.01	40.0	536	0.39	0.02	40.0	537	0.47	0.02	40.0
	538	0.56	0.02	40.0	539	0.62	0.02	40.0	540	0.47	0.02	40.0
	541	0.54	0.02	40.0	542	0.52	0.02	40.0	543	0.58	0.02	40.0
91	1	3.21	0.64	200.0	2	0.73	0.12	160.0	3	3.16	0.63	200.0
	4	0.83	0.13	160.0	5	3.22	0.64	200.0	6	0.94	0.15	160.0
	7	3.33	0.67	200.0	8	1.05	0.17	160.0	9	3.41	0.68	200.0
	10	1.16	0.18	160.0	11	3.52	0.70	200.0	12	1.27	0.20	160.0
	13	3.56	0.71	200.0	14	1.27	0.20	160.0	15	3.56	0.71	200.0
	16	1.26	0.20	160.0	17	3.55	0.71	200.0	18	1.23	0.20	160.0
	19	3.49	0.70	200.0	20	1.18	0.19	160.0	21	3.42	0.68	200.0
	22	1.09	0.17	160.0	23	3.34	0.67	200.0	24	0.97	0.16	160.0
	25	3.28	0.66	200.0	26	0.84	0.13	160.0	27	3.33	0.67	200.0
	28	0.72	0.12	160.0	288	0.37	0.11	295.0	289	0.35	0.10	295.0
	290	0.39	0.12	295.0	291	0.37	0.11	295.0	292	0.42	0.12	295.0
	293	0.41	0.12	295.0	294	0.46	0.13	295.0	295	0.44	0.13	295.0
	296	0.33	0.10	295.0	297	0.31	0.09	295.0	298	0.30	0.09	295.0
	299	0.26	0.08	295.0	300	0.25	0.07	295.0	516	0.06	3.74e-03	58.7
	517	0.18	0.01	58.7	518	0.14	5.50e-03	40.0	519	0.21	8.23e-03	40.0
	520	0.10	5.30e-03	55.0	521	0.21	0.01	55.0	522	0.18	7.07e-03	40.0
	523	0.20	8.19e-03	40.0	524	0.22	8.73e-03	40.0	525	0.21	8.41e-03	40.0
	526	0.26	0.01	40.0	527	0.22	8.96e-03	40.0	528	0.31	0.01	40.0
	529	0.25	9.83e-03	40.0	530	0.36	0.01	40.0	531	0.85	0.03	40.0
	532	0.61	0.02	40.0	533	0.33	0.01	40.0	534	0.48	0.02	40.0
	535	0.39	0.02	40.0	536	0.57	0.02	40.0	537	0.49	0.02	40.0
	538	0.71	0.03	40.0	539	0.74	0.03	40.0	540	0.63	0.03	40.0
...												
110	541	0.14	5.77e-03	40.0	542	0.18	7.17e-03	40.0	543	0.20	8.05e-03	40.0
Cmb		1000 etaT/h										
		3.79										

RISULTATI NODALI

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

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

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

Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		cm	cm	cm			
1	12	0.04	9.56e-03	-0.47	0.0	1.54e-04	9.83e-06
1	34	0.02	0.02	-0.46	0.0	7.23e-05	3.10e-05
1	38	0.02	9.54e-03	-0.49	0.0	5.15e-05	2.10e-05
1	47	0.05	0.03	-0.37	0.0	1.05e-04	5.32e-06
1	71	0.04	0.05	-0.31	0.0	1.26e-04	4.53e-05
1	76	2.92e-03	-0.02	-0.41	0.0	-3.40e-05	-3.14e-05
1	79	0.04	0.02	-0.37	0.0	8.53e-05	7.74e-06
1	103	0.03	0.04	-0.32	0.0	1.00e-04	3.68e-05
1	108	5.03e-03	-0.01	-0.39	0.0	-1.51e-05	-1.89e-05
1	117	0.03	7.19e-03	-0.36	0.0	1.03e-04	8.60e-06
1	128	0.01	0.02	-0.35	0.0	4.85e-05	2.28e-05
1	130	0.01	7.18e-03	-0.37	0.0	3.46e-05	1.60e-05
1	135	0.01	9.87e-03	-0.35	0.0	3.40e-05	1.48e-05
1	136	0.01	9.08e-03	-0.35	0.0	4.62e-05	1.24e-05
1	138	0.01	0.01	-0.35	0.0	3.54e-05	1.53e-05
1	140	0.01	9.68e-03	-0.35	0.0	3.28e-05	1.39e-05
1	141	0.01	9.68e-03	-0.35	0.0	3.28e-05	1.39e-05
2	12	0.05	0.04	-0.69	1.43e-05	0.0	6.13e-06
2	18	0.02	0.05	-0.72	1.50e-05	0.0	-6.30e-06
2	34	0.03	0.06	-0.70	2.61e-05	0.0	-1.16e-06
2	56	0.13	2.77e-03	-0.46	6.25e-05	0.0	1.25e-05
2	61	-0.07	0.06	-0.55	-3.63e-05	0.0	-2.24e-05
2	73	-0.01	0.09	-0.53	-5.37e-05	0.0	6.37e-06
2	88	0.10	0.01	-0.47	4.86e-05	0.0	8.76e-06
2	93	-0.04	0.05	-0.54	-2.28e-05	0.0	-1.63e-05
2	105	-5.99e-04	0.07	-0.53	-3.52e-05	0.0	4.45e-06
2	117	0.04	0.03	-0.52	1.38e-05	0.0	3.80e-06
2	120	0.02	0.04	-0.54	1.43e-05	0.0	-4.48e-06
2	128	0.03	0.04	-0.52	2.17e-05	0.0	-1.05e-06
2	135	0.03	0.03	-0.51	1.30e-05	0.0	-1.05e-06
2	136	0.03	0.03	-0.50	1.23e-05	0.0	0.0
2	138	0.03	0.03	-0.50	1.39e-05	0.0	0.0
2	140	0.02	0.03	-0.50	1.24e-05	0.0	0.0
2	141	0.02	0.03	-0.50	1.24e-05	0.0	0.0
3	18	-0.02	0.02	-0.67	-1.57e-04	-3.75e-05	-2.05e-05
3	26	-0.03	0.01	-0.48	-1.08e-04	-5.21e-05	-2.82e-05
3	34	-9.49e-03	0.02	-0.65	-1.56e-04	-1.37e-05	-7.72e-06
3	58	-0.05	-9.04e-03	-0.49	-1.42e-04	-1.17e-04	1.54e-05
3	61	-0.05	8.70e-03	-0.49	-1.66e-04	-1.01e-04	2.73e-05
3	71	8.07e-03	0.05	-0.48	-1.34e-04	3.44e-05	1.61e-05
3	90	-0.04	-4.08e-03	-0.48	-1.31e-04	-8.76e-05	9.32e-06
3	93	-0.04	8.67e-03	-0.48	-1.48e-04	-7.61e-05	1.79e-05
3	103	3.96e-03	0.04	-0.47	-1.25e-04	2.22e-05	9.83e-06
3	120	-0.02	0.01	-0.50	-1.14e-04	-3.25e-05	-1.53e-05
3	123	-0.02	0.01	-0.49	-1.10e-04	-3.21e-05	-2.00e-05
3	128	-8.49e-03	0.02	-0.49	-1.13e-04	-1.67e-05	-6.84e-06
3	135	-7.62e-03	9.32e-03	-0.48	-1.04e-04	-1.30e-05	-6.37e-06
3	137	-9.23e-03	9.60e-03	-0.47	-1.03e-04	-1.34e-05	-8.74e-06
3	138	-7.05e-03	0.01	-0.47	-1.03e-04	-1.04e-05	-6.12e-06
3	140	-7.05e-03	9.14e-03	-0.47	-1.02e-04	-1.04e-05	-6.11e-06
3	141	-7.05e-03	9.14e-03	-0.47	-1.02e-04	-1.04e-05	-6.11e-06
4	8	0.03	0.02	-0.68	-1.64e-04	1.59e-04	2.07e-06
4	12	0.04	0.02	-0.66	-1.61e-04	1.57e-04	8.13e-06
4	34	0.02	0.03	-0.66	-1.62e-04	1.33e-04	-9.27e-06
4	56	0.06	-0.02	-0.50	-1.49e-04	2.06e-04	-4.08e-05
4	65	-7.62e-03	0.08	-0.47	-1.44e-04	4.78e-05	6.12e-06
4	88	0.05	-0.01	-0.49	-1.38e-04	1.77e-04	-3.11e-05
4	97	-1.47e-03	0.06	-0.47	-1.34e-04	6.13e-05	2.53e-06
4	115	0.02	0.02	-0.51	-1.19e-04	1.23e-04	1.78e-06
4	117	0.03	0.02	-0.49	-1.17e-04	1.22e-04	5.82e-06
4	128	0.02	0.02	-0.49	-1.18e-04	1.06e-04	-5.80e-06
4	135	0.02	0.01	-0.49	-1.11e-04	1.02e-04	-5.74e-06
4	136	0.02	0.01	-0.48	-1.10e-04	1.03e-04	-3.61e-06
4	138	0.01	0.01	-0.48	-1.10e-04	9.94e-05	-5.97e-06



Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
4	140	0.01	0.01	-0.48	-1.09e-04	9.94e-05	-5.92e-06
4	141	0.01	0.01	-0.48	-1.09e-04	9.94e-05	-5.92e-06
5	12	0.04	9.61e-03	-0.48	0.0	1.58e-04	3.05e-06
5	34	0.02	0.02	-0.47	0.0	7.07e-05	2.27e-05
5	38	0.02	9.59e-03	-0.49	0.0	5.34e-05	1.29e-05
5	47	0.05	0.03	-0.38	0.0	1.04e-04	3.44e-06
5	71	0.03	0.05	-0.32	0.0	1.16e-04	3.95e-05
5	76	4.06e-03	-0.02	-0.41	0.0	-2.19e-05	-3.33e-05
5	79	0.04	0.02	-0.37	0.0	8.52e-05	5.02e-06
5	103	0.03	0.04	-0.33	0.0	9.33e-05	3.12e-05
5	108	5.74e-03	-0.01	-0.39	0.0	-6.13e-06	-2.17e-05
5	117	0.03	7.23e-03	-0.36	0.0	1.06e-04	3.87e-06
5	128	0.01	0.02	-0.36	0.0	4.73e-05	1.70e-05
5	130	0.01	7.22e-03	-0.37	0.0	3.57e-05	1.04e-05
5	135	0.01	9.91e-03	-0.36	0.0	3.49e-05	9.71e-06
5	136	0.01	9.12e-03	-0.35	0.0	4.76e-05	7.61e-06
5	138	0.01	0.01	-0.35	0.0	3.59e-05	1.03e-05
5	140	9.96e-03	9.71e-03	-0.35	0.0	3.38e-05	9.03e-06
5	141	9.96e-03	9.71e-03	-0.35	0.0	3.38e-05	9.03e-06
6	12	0.04	0.04	-0.68	-1.47e-05	0.0	2.34e-05
6	18	0.01	0.05	-0.71	-1.99e-05	0.0	1.58e-05
6	34	0.02	0.06	-0.69	-5.31e-06	0.0	2.11e-05
6	56	0.11	4.97e-03	-0.45	4.41e-05	0.0	-1.14e-05
6	61	-0.07	0.06	-0.54	-6.37e-05	0.0	2.98e-05
6	73	-0.02	0.08	-0.53	-7.42e-05	0.0	1.66e-05
6	88	0.09	0.01	-0.47	2.91e-05	0.0	-4.60e-06
6	93	-0.05	0.05	-0.53	-4.88e-05	0.0	2.51e-05
6	105	-8.23e-03	0.07	-0.52	-5.61e-05	0.0	1.56e-05
6	117	0.03	0.03	-0.51	-8.16e-06	0.0	1.69e-05
6	120	9.48e-03	0.04	-0.53	-1.16e-05	0.0	1.19e-05
6	128	0.02	0.04	-0.51	-1.88e-06	0.0	1.54e-05
6	135	0.02	0.03	-0.50	-1.00e-05	0.0	1.30e-05
6	136	0.02	0.03	-0.50	-9.72e-06	0.0	1.36e-05
6	138	0.02	0.03	-0.50	-8.43e-06	0.0	1.33e-05
6	140	0.02	0.03	-0.50	-1.00e-05	0.0	1.29e-05
6	141	0.02	0.03	-0.50	-1.00e-05	0.0	1.29e-05
7	12	0.04	1.24e-03	-0.60	0.0	1.22e-04	-4.33e-06
7	18	-4.13e-03	4.92e-03	-0.63	0.0	1.30e-05	-3.28e-05
7	33	0.01	0.02	-0.58	0.0	4.32e-05	7.38e-06
7	47	0.06	0.03	-0.42	0.0	1.18e-04	5.51e-05
7	71	0.03	0.06	-0.40	0.0	8.69e-05	8.61e-05
7	74	-0.02	-0.05	-0.47	0.0	-3.26e-05	-1.16e-04
7	79	0.04	0.02	-0.42	0.0	9.31e-05	3.55e-05
7	103	0.03	0.04	-0.41	0.0	7.05e-05	5.82e-05
7	106	-0.01	-0.04	-0.46	0.0	-1.57e-05	-8.83e-05
7	117	0.03	5.96e-04	-0.45	0.0	8.41e-05	-4.94e-06
7	120	-2.20e-03	3.05e-03	-0.47	0.0	1.12e-05	-2.39e-05
7	127	8.11e-03	0.01	-0.43	0.0	3.14e-05	2.91e-06
7	135	6.54e-03	2.72e-03	-0.44	0.0	2.90e-05	-1.65e-05
7	136	0.01	2.47e-03	-0.44	0.0	3.87e-05	-1.37e-05
7	138	6.68e-03	4.78e-03	-0.44	0.0	2.87e-05	-1.22e-05
7	140	6.32e-03	2.87e-03	-0.44	0.0	2.80e-05	-1.61e-05
7	141	6.32e-03	2.87e-03	-0.44	0.0	2.80e-05	-1.61e-05
8	12	0.03	0.01	-0.66	0.0	3.40e-05	2.92e-05
8	18	-0.01	0.02	-0.70	0.0	-3.81e-05	1.24e-05
8	34	5.11e-03	0.03	-0.66	0.0	-7.01e-06	3.83e-05
8	47	0.05	0.04	-0.46	0.0	1.01e-04	4.86e-05
8	71	0.02	0.08	-0.44	0.0	4.13e-05	5.32e-05
8	74	-0.02	-0.06	-0.51	0.0	-6.05e-05	-3.11e-05
8	79	0.04	0.03	-0.46	0.0	7.08e-05	3.82e-05
8	103	0.02	0.06	-0.45	0.0	2.77e-05	4.16e-05
8	106	-0.01	-0.04	-0.50	0.0	-4.60e-05	-1.95e-05
8	117	0.02	9.86e-03	-0.49	0.0	2.18e-05	2.07e-05
8	120	-6.65e-03	0.01	-0.52	0.0	-2.64e-05	9.44e-06
8	128	3.63e-03	0.02	-0.49	0.0	-5.61e-06	2.67e-05
8	135	2.15e-03	0.01	-0.49	0.0	-8.48e-06	1.14e-05
8	136	5.36e-03	9.73e-03	-0.48	0.0	-1.94e-06	1.28e-05
8	138	2.37e-03	0.01	-0.48	0.0	-7.49e-06	1.40e-05
8	140	2.10e-03	9.83e-03	-0.48	0.0	-8.15e-06	1.10e-05
8	141	2.10e-03	9.83e-03	-0.48	0.0	-8.15e-06	1.10e-05



Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
9	8	0.01	0.02	-0.70	0.0	4.81e-05	-5.68e-06
9	24	-0.02	0.01	-0.66	0.0	-2.23e-05	-2.05e-05
9	34	-3.18e-03	0.03	-0.66	0.0	1.29e-05	-3.39e-05
9	50	-0.05	5.14e-03	-0.47	0.0	-7.74e-05	-3.77e-05
9	72	6.94e-03	-0.06	-0.51	0.0	6.25e-05	2.13e-05
9	73	-8.90e-03	0.08	-0.45	0.0	-3.49e-05	-3.71e-05
9	82	-0.04	6.57e-03	-0.47	0.0	-5.25e-05	-2.93e-05
9	104	4.71e-03	-0.04	-0.50	0.0	4.90e-05	1.32e-05
9	105	-6.73e-03	0.06	-0.46	0.0	-2.20e-05	-2.90e-05
9	115	8.47e-03	0.01	-0.52	0.0	3.36e-05	-4.65e-06
9	123	-0.02	0.01	-0.49	0.0	-1.33e-05	-1.46e-05
9	128	-2.24e-03	0.02	-0.49	0.0	1.01e-05	-2.35e-05
9	135	-1.10e-03	0.01	-0.49	0.0	1.36e-05	-8.26e-06
9	137	-4.05e-03	0.01	-0.48	0.0	7.69e-06	-8.98e-06
9	138	-1.26e-03	0.01	-0.48	0.0	1.24e-05	-1.08e-05
9	140	-1.04e-03	0.01	-0.48	0.0	1.32e-05	-7.85e-06
9	141	-1.04e-03	0.01	-0.48	0.0	1.32e-05	-7.85e-06
10	8	7.86e-03	6.92e-03	-0.63	0.0	6.13e-06	4.19e-05
10	24	-0.03	3.22e-03	-0.60	0.0	-9.31e-05	1.46e-05
10	33	-9.71e-03	0.02	-0.57	0.0	-3.99e-05	0.0
10	50	-0.05	2.39e-03	-0.43	0.0	-9.22e-05	-8.04e-06
10	64	-0.01	-0.06	-0.47	0.0	3.75e-05	9.02e-05
10	65	1.25e-03	0.07	-0.40	0.0	-8.78e-05	-4.96e-05
10	82	-0.04	2.90e-03	-0.43	0.0	-7.39e-05	0.0
10	97	-6.64e-04	0.05	-0.41	0.0	-7.06e-05	-2.99e-05
10	104	7.47e-03	-0.04	-0.46	0.0	1.40e-05	8.11e-05
10	115	4.77e-03	4.51e-03	-0.47	0.0	1.94e-06	3.05e-05
10	123	-0.02	2.04e-03	-0.45	0.0	-6.42e-05	1.23e-05
10	127	-6.95e-03	0.01	-0.43	0.0	-2.88e-05	2.27e-06
10	135	-5.74e-03	3.94e-03	-0.44	0.0	-2.60e-05	2.14e-05
10	137	-8.75e-03	3.78e-03	-0.43	0.0	-3.23e-05	1.92e-05
10	138	-5.80e-03	6.06e-03	-0.43	0.0	-2.58e-05	1.73e-05
10	140	-5.51e-03	4.11e-03	-0.43	0.0	-2.50e-05	2.11e-05
10	141	-5.51e-03	4.11e-03	-0.43	0.0	-2.50e-05	2.11e-05
11	24	-0.04	0.07	-0.47	0.0	-1.17e-04	-8.65e-05
11	34	3.00e-03	0.08	-0.47	0.0	-1.02e-04	-1.46e-05
11	38	-5.69e-03	0.06	-0.49	0.0	-1.06e-04	-1.09e-04
11	50	-0.10	0.06	-0.33	0.0	-2.47e-04	-1.97e-04
11	73	4.21e-03	0.10	-0.30	0.0	-1.50e-04	1.70e-04
11	76	-0.01	1.27e-03	-0.41	0.0	1.82e-05	-2.84e-04
11	82	-0.07	0.06	-0.33	0.0	-1.96e-04	-1.59e-04
11	105	2.24e-03	0.09	-0.31	0.0	-1.26e-04	1.07e-04
11	108	-0.01	0.01	-0.39	0.0	-4.70e-06	-2.22e-04
11	123	-0.03	0.05	-0.36	0.0	-7.98e-05	-6.29e-05
11	128	1.67e-03	0.06	-0.35	0.0	-6.98e-05	-1.50e-05
11	130	-4.12e-03	0.05	-0.37	0.0	-7.31e-05	-7.77e-05
11	135	-2.44e-03	0.05	-0.35	0.0	-6.54e-05	-5.86e-05
11	137	-7.38e-03	0.05	-0.35	0.0	-6.55e-05	-5.78e-05
11	138	-1.51e-03	0.05	-0.35	0.0	-6.35e-05	-4.80e-05
11	140	-2.35e-03	0.05	-0.35	0.0	-6.33e-05	-5.73e-05
11	141	-2.35e-03	0.05	-0.35	0.0	-6.33e-05	-5.73e-05
12	12	0.05	0.08	-0.46	0.0	1.44e-04	1.04e-04
12	34	1.49e-03	0.09	-0.46	0.0	1.20e-04	2.64e-05
12	38	9.57e-03	0.07	-0.48	0.0	1.27e-04	1.20e-04
12	47	0.10	0.11	-0.29	0.0	2.96e-04	9.58e-05
12	63	0.06	0.14	-0.28	0.0	1.95e-04	-9.16e-05
12	70	-0.04	-0.03	-0.40	0.0	-3.72e-05	2.24e-04
12	79	0.07	0.09	-0.31	0.0	2.35e-04	8.74e-05
12	95	0.04	0.11	-0.30	0.0	1.62e-04	-4.85e-05
12	102	-0.03	-5.43e-03	-0.39	0.0	-4.86e-06	1.81e-04
12	117	0.03	0.06	-0.35	0.0	9.96e-05	7.55e-05
12	128	1.66e-03	0.06	-0.35	0.0	8.36e-05	2.38e-05
12	130	7.06e-03	0.05	-0.36	0.0	8.84e-05	8.59e-05
12	135	5.62e-03	0.05	-0.35	0.0	8.02e-05	6.77e-05
12	136	0.01	0.05	-0.34	0.0	8.14e-05	6.78e-05
12	138	4.71e-03	0.05	-0.34	0.0	7.80e-05	5.73e-05
12	140	5.54e-03	0.05	-0.34	0.0	7.80e-05	6.65e-05
12	141	5.54e-03	0.05	-0.34	0.0	7.80e-05	6.65e-05
13	12	0.13	0.14	-0.67	-2.28e-04	2.79e-04	6.57e-05
13	18	0.02	0.15	-0.70	-2.45e-04	1.30e-05	-1.69e-04



Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
13	28	0.06	0.16	-0.70	-2.49e-04	9.16e-05	-9.26e-05
13	55	0.53	0.08	-0.48	-1.26e-04	1.85e-03	1.80e-04
13	61	-0.37	0.15	-0.51	-2.13e-04	-1.24e-03	-5.35e-04
13	73	-0.10	0.17	-0.50	-2.16e-04	-4.65e-04	-1.71e-04
13	91	0.39	0.09	-0.48	-1.39e-04	1.35e-03	1.22e-04
13	93	-0.25	0.14	-0.50	-1.99e-04	-8.85e-04	-4.01e-04
13	105	-0.06	0.15	-0.50	-2.01e-04	-3.17e-04	-1.45e-04
13	117	0.09	0.10	-0.51	-1.68e-04	1.93e-04	3.77e-05
13	120	0.02	0.11	-0.52	-1.79e-04	2.02e-05	-1.21e-04
13	125	0.05	0.11	-0.52	-1.82e-04	7.24e-05	-7.05e-05
13	135	0.04	0.10	-0.50	-1.65e-04	6.65e-05	-6.12e-05
13	136	0.05	0.10	-0.49	-1.62e-04	8.21e-05	-3.60e-05
13	140	0.04	0.10	-0.49	-1.62e-04	6.46e-05	-6.04e-05
13	141	0.04	0.10	-0.49	-1.62e-04	6.46e-05	-6.04e-05
14	8	0.07	0.17	-0.71	-2.59e-04	-1.69e-05	7.94e-05
14	11	0.10	0.16	-0.67	-2.39e-04	8.04e-05	1.18e-04
14	28	0.03	0.17	-0.70	-2.61e-04	-1.06e-04	-6.17e-06
14	56	0.40	0.12	-0.52	-2.01e-04	1.08e-03	5.63e-04
14	58	-0.46	0.05	-0.49	-1.14e-04	-1.81e-03	-2.94e-04
14	63	0.19	0.21	-0.50	-2.32e-04	3.80e-04	1.29e-05
14	88	0.29	0.12	-0.51	-1.93e-04	7.48e-04	4.08e-04
14	90	-0.32	0.06	-0.49	-1.31e-04	-1.31e-03	-2.24e-04
14	95	0.14	0.18	-0.50	-2.15e-04	2.45e-04	1.02e-05
14	115	0.05	0.12	-0.53	-1.90e-04	-2.48e-05	5.44e-05
14	116	0.07	0.11	-0.50	-1.77e-04	4.01e-05	8.00e-05
14	125	0.02	0.12	-0.53	-1.91e-04	-8.51e-05	-2.95e-06
14	135	0.02	0.11	-0.50	-1.76e-04	-1.03e-04	7.80e-06
14	136	0.03	0.11	-0.50	-1.74e-04	-7.20e-05	2.25e-05
14	138	0.02	0.11	-0.50	-1.75e-04	-9.25e-05	2.98e-06
14	140	0.02	0.11	-0.50	-1.74e-04	-1.01e-04	7.21e-06
14	141	0.02	0.11	-0.50	-1.74e-04	-1.01e-04	7.21e-06
15	18	-0.02	0.02	-0.67	-1.65e-04	6.57e-06	-2.90e-05
15	26	-0.03	0.02	-0.48	-1.13e-04	-1.48e-05	-3.86e-05
15	34	-9.09e-03	0.03	-0.65	-1.63e-04	2.65e-05	-1.22e-05
15	58	-0.06	-4.72e-03	-0.49	-1.48e-04	-1.16e-04	-7.95e-05
15	61	-0.05	0.01	-0.49	-1.73e-04	-9.85e-05	-6.70e-05
15	71	9.86e-03	0.05	-0.48	-1.41e-04	7.33e-05	1.78e-05
15	90	-0.04	2.33e-04	-0.48	-1.37e-04	-7.82e-05	-6.00e-05
15	93	-0.04	0.01	-0.49	-1.54e-04	-6.57e-05	-5.10e-05
15	103	5.35e-03	0.04	-0.48	-1.31e-04	5.84e-05	1.01e-05
15	120	-0.02	0.02	-0.50	-1.20e-04	3.68e-06	-2.17e-05
15	123	-0.02	0.02	-0.49	-1.16e-04	0.0	-2.78e-05
15	128	-8.37e-03	0.02	-0.49	-1.19e-04	1.69e-05	-1.05e-05
15	135	-7.40e-03	0.01	-0.48	-1.09e-04	1.83e-05	-9.78e-06
15	137	-9.07e-03	0.01	-0.48	-1.08e-04	1.61e-05	-1.29e-05
15	138	-6.76e-03	0.01	-0.47	-1.08e-04	1.95e-05	-9.45e-06
15	140	-6.76e-03	0.01	-0.47	-1.07e-04	1.94e-05	-9.41e-06
15	141	-6.76e-03	0.01	-0.47	-1.07e-04	1.94e-05	-9.41e-06
16	18	-0.02	0.02	-0.67	0.0	-3.69e-06	-2.56e-05
16	26	-0.03	0.02	-0.48	0.0	-2.72e-05	-4.15e-05
16	34	-9.41e-03	0.03	-0.65	0.0	2.09e-05	-4.27e-06
16	58	-0.06	-4.71e-03	-0.48	0.0	-1.21e-04	-6.67e-05
16	61	-0.05	0.01	-0.49	0.0	-1.03e-04	-5.39e-05
16	71	9.61e-03	0.05	-0.47	0.0	7.05e-05	2.14e-05
16	90	-0.04	2.40e-04	-0.48	0.0	-8.32e-05	-4.94e-05
16	93	-0.04	0.01	-0.48	0.0	-7.01e-05	-4.02e-05
16	103	5.09e-03	0.04	-0.47	0.0	5.53e-05	1.40e-05
16	120	-0.02	0.02	-0.50	0.0	-4.00e-06	-1.96e-05
16	123	-0.02	0.02	-0.49	0.0	-9.44e-06	-2.73e-05
16	128	-8.68e-03	0.02	-0.48	0.0	1.24e-05	-5.38e-06
16	135	-7.69e-03	0.01	-0.48	0.0	1.41e-05	-4.98e-06
16	137	-9.51e-03	0.01	-0.47	0.0	1.11e-05	-8.91e-06
16	138	-7.04e-03	0.01	-0.47	0.0	1.55e-05	-4.55e-06
16	140	-7.04e-03	0.01	-0.47	0.0	1.54e-05	-4.59e-06
16	141	-7.04e-03	0.01	-0.47	0.0	1.54e-05	-4.59e-06
17	18	-0.02	0.02	-0.67	0.0	-4.82e-05	-9.26e-06
17	26	-0.03	0.01	-0.48	0.0	-6.55e-05	-2.29e-05
17	34	-9.46e-03	0.02	-0.65	0.0	-1.92e-05	5.82e-06
17	58	-0.05	-8.99e-03	-0.48	0.0	-1.19e-04	2.13e-05
17	61	-0.05	8.77e-03	-0.48	0.0	-1.03e-04	3.34e-05



Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
17	71	7.95e-03	0.05	-0.47	0.0	3.09e-05	2.45e-05
17	90	-0.04	-4.02e-03	-0.48	0.0	-9.06e-05	1.62e-05
17	93	-0.04	8.73e-03	-0.48	0.0	-7.85e-05	2.49e-05
17	103	3.87e-03	0.04	-0.47	0.0	1.85e-05	1.84e-05
17	120	-0.02	0.01	-0.50	0.0	-4.07e-05	-6.89e-06
17	123	-0.02	0.01	-0.48	0.0	-4.19e-05	-1.32e-05
17	128	-8.52e-03	0.02	-0.48	0.0	-2.14e-05	3.14e-06
17	135	-7.64e-03	9.37e-03	-0.48	0.0	-1.74e-05	2.91e-06
17	137	-9.37e-03	9.66e-03	-0.47	0.0	-1.86e-05	0.0
17	138	-7.07e-03	0.01	-0.47	0.0	-1.45e-05	3.03e-06
17	140	-7.07e-03	9.19e-03	-0.47	0.0	-1.46e-05	2.97e-06
17	141	-7.07e-03	9.19e-03	-0.47	0.0	-1.46e-05	2.97e-06
18	18	-0.02	0.03	-0.68	-1.64e-04	4.38e-05	-3.80e-05
18	26	-0.03	0.02	-0.48	-1.13e-04	1.64e-05	-4.93e-05
18	34	-7.22e-03	0.03	-0.65	-1.62e-04	6.07e-05	-1.73e-05
18	58	-0.06	-6.20e-04	-0.49	-1.48e-04	-1.26e-04	-1.00e-04
18	61	-0.06	0.02	-0.49	-1.73e-04	-1.08e-04	-8.72e-05
18	71	0.01	0.06	-0.48	-1.40e-04	1.09e-04	1.96e-05
18	90	-0.05	4.39e-03	-0.49	-1.36e-04	-7.81e-05	-7.62e-05
18	93	-0.04	0.02	-0.49	-1.54e-04	-6.52e-05	-6.66e-05
18	103	8.21e-03	0.05	-0.48	-1.30e-04	9.10e-05	1.04e-05
18	120	-0.02	0.02	-0.50	-1.19e-04	3.43e-05	-2.84e-05
18	123	-0.02	0.02	-0.49	-1.15e-04	2.68e-05	-3.60e-05
18	128	-7.00e-03	0.02	-0.49	-1.18e-04	4.56e-05	-1.46e-05
...							
2125	141	9.26e-05	-1.82e-03	-0.37	-9.32e-05	-1.96e-04	-4.03e-06
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		-1.14	-0.15	-3.40	-4.67e-03	-6068.92	-0.03
		1.30	1.04	0.0	4.04e-03	6069.33	0.03

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		daN	daN	daN	daN cm	daN cm	daN cm
1791	8	-151.00	-189.89	-6.407e+04	-1.198e+05	1.917e+05	1095.88
1791	18	-757.14	-344.40	-6.371e+04	-1.231e+05	2.055e+05	-837.01
1791	25	-848.96	-285.53	-4.357e+04	-7.926e+04	1.603e+05	-1396.42
1791	44	-399.78	-587.78	-6.218e+04	-1.298e+05	1.771e+05	-180.63
1791	48	992.67	-1555.41	-4.699e+04	-1.759e+05	1.055e+05	-9176.56
1791	56	1042.24	-1514.37	-4.709e+04	-1.751e+05	1.043e+05	-1.008e+04
1791	57	-1643.99	1138.96	-4.360e+04	9862.80	1.612e+05	1.017e+04
1791	62	-1529.36	151.95	-4.400e+04	-2.206e+04	1.619e+05	5788.29
1791	80	634.54	-1170.98	-4.653e+04	-1.499e+05	1.131e+05	-6608.74
1791	88	669.56	-1141.71	-4.660e+04	-1.493e+05	1.122e+05	-7262.14
1791	89	-1270.78	765.91	-4.409e+04	-1.613e+04	1.530e+05	7335.50
1791	94	-1187.33	59.39	-4.437e+04	-3.903e+04	1.535e+05	4174.47
1791	115	-172.19	-143.44	-4.780e+04	-8.720e+04	1.585e+05	741.10
1791	120	-576.29	-246.45	-4.756e+04	-8.942e+04	1.678e+05	-547.83
1791	122	-634.46	-261.37	-4.512e+04	-8.411e+04	1.378e+05	-927.82
1791	133	-338.05	-408.70	-4.654e+04	-9.393e+04	1.488e+05	-109.96
1791	135	-315.15	-191.12	-4.581e+04	-8.399e+04	1.387e+05	28.12
1791	137	-366.93	-202.88	-4.530e+04	-8.309e+04	1.334e+05	-162.50
1791	139	-300.08	-230.91	-4.535e+04	-8.446e+04	1.323e+05	1.31
1791	140	-300.04	-188.26	-4.534e+04	-8.282e+04	1.322e+05	28.68
1791	141	-300.04	-188.26	-4.534e+04	-8.282e+04	1.322e+05	28.68
1839	10	692.48	-180.09	-4.675e+04	-4.550e+04	-1.761e+05	1078.46
1839	13	777.93	-222.26	-4.295e+04	-4.090e+04	-1.312e+05	1932.40
1839	18	51.44	-79.90	-6.332e+04	-6.205e+04	-1.483e+05	-1035.56
1839	44	301.84	-423.73	-6.130e+04	-7.067e+04	-1.335e+05	-257.68
1839	56	1594.48	225.43	-4.324e+04	1.161e+04	-1.398e+05	-1.005e+04
1839	60	1533.53	168.64	-4.318e+04	1.160e+04	-1.368e+05	-7876.84
1839	61	-1080.50	-348.34	-4.618e+04	-9.267e+04	-6.336e+04	7623.23
1839	62	-997.73	-949.41	-4.582e+04	-1.056e+05	-7.210e+04	5643.47
1839	88	1214.49	138.75	-4.364e+04	-2896.61	-1.285e+05	-7278.90
1839	90	-613.02	-671.57	-4.555e+04	-8.765e+04	-8.209e+04	2467.44
1839	92	1170.27	99.98	-4.359e+04	-2837.58	-1.264e+05	-5717.96
1839	93	-717.82	-279.84	-4.576e+04	-7.820e+04	-7.357e+04	5465.42
1839	115	503.50	-157.04	-4.701e+04	-4.670e+04	-1.367e+05	688.31
1839	116	560.46	-185.16	-4.448e+04	-4.363e+04	-1.068e+05	1257.70
1839	120	97.72	-58.40	-4.722e+04	-4.394e+04	-1.260e+05	-715.68



Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
1839	133	264.64	-287.63	-4.588e+04	-4.970e+04	-1.162e+05	-196.55
1839	135	241.01	-92.17	-4.516e+04	-4.142e+04	-1.062e+05	-125.44
1839	136	292.56	-109.23	-4.463e+04	-4.120e+04	-1.010e+05	155.39
1839	139	225.72	-128.71	-4.467e+04	-4.197e+04	-9.965e+04	-134.66
1839	140	225.61	-90.21	-4.467e+04	-4.057e+04	-9.962e+04	-121.70
1839	141	225.61	-90.21	-4.467e+04	-4.057e+04	-9.962e+04	-121.70
2059	1	0.0	0.0	0.0	0.0	0.0	0.0
2059	35	0.0	0.0	0.0	0.0	0.0	0.0
2059	38	0.0	0.0	0.0	0.0	0.0	0.0
2059	47	0.0	0.0	0.0	0.0	0.0	0.0
2059	63	0.0	0.0	0.0	0.0	0.0	0.0
2059	66	0.0	0.0	0.0	0.0	0.0	0.0
2059	79	0.0	0.0	0.0	0.0	0.0	0.0
2059	95	0.0	0.0	0.0	0.0	0.0	0.0
2059	98	0.0	0.0	0.0	0.0	0.0	0.0
2059	111	0.0	0.0	0.0	0.0	0.0	0.0
2059	127	0.0	0.0	0.0	0.0	0.0	0.0
2059	130	0.0	0.0	0.0	0.0	0.0	0.0
2059	134	0.0	0.0	0.0	0.0	0.0	0.0
2059	135	0.0	0.0	0.0	0.0	0.0	0.0
2059	138	0.0	0.0	0.0	0.0	0.0	0.0
2059	140	0.0	0.0	0.0	0.0	0.0	0.0
2059	141	0.0	0.0	0.0	0.0	0.0	0.0
Nodo		Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		-1643.99	-1555.41	-6.407e+04	-1.759e+05	-1.761e+05	-1.008e+04
		1594.48	1138.96	0.0	1.161e+04	2.055e+05	1.017e+04

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		daN	daN	daN	daN cm	daN cm	daN cm
1791	8	-151.00	-189.89	-6.407e+04	-1.198e+05	1.917e+05	1095.88
	25	-848.96	-285.53	-4.357e+04	-7.926e+04	1.603e+05	-1396.42
	48	992.67	-1555.41	-4.699e+04	-1.759e+05	1.055e+05	-9176.56
	49	-1593.99	1179.95	-4.370e+04	1.064e+04	1.598e+05	9254.50
	59	927.48	-528.02	-4.670e+04	-1.438e+05	1.035e+05	-5736.04
	18	-757.14	-344.40	-6.371e+04	-1.231e+05	2.055e+05	-837.01
1839	18	51.44	-79.90	-6.332e+04	-6.205e+04	-1.483e+05	-1035.56
	13	777.93	-222.26	-4.295e+04	-4.090e+04	-1.312e+05	1932.40
	62	-997.73	-949.41	-4.582e+04	-1.056e+05	-7.210e+04	5643.47
	59	1450.84	770.58	-4.353e+04	2.526e+04	-1.285e+05	-5935.91
	10	692.48	-180.09	-4.675e+04	-4.550e+04	-1.761e+05	1078.46
	57	-1141.52	-405.11	-4.611e+04	-9.267e+04	-6.039e+04	9791.39
2059	66	0.0	0.0	0.0	0.0	0.0	0.0
	63	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0

RISULTATI OPERE DI FONDAZIONE

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

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.

Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (esprese nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	codice corrispondente al nome assegnato al tipo di plinto di fondazione:

	3) palo singolo (<i>PALO</i>)
	4) plinto su palo
	5) plinto su due pali (<i>PL.2P</i>)
	6) plinto su tre pali (<i>PL.3P</i>)
	7) plinto su quattro pali (<i>PL.4P</i>)
	8) plinto rettangolare su cinque pali (<i>PL.5P.R</i>)
	9) plinto pentagonale su cinque pali (<i>PL.5P</i>)
	10) plinto su sei pali (<i>PL.6P</i>)
Palo	numero del palo
Comb.	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
Quota	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione F_z (corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno. In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	Codice identificativo del nome assegnato al plinto
area	area dell'impronta del plinto
Wink O Wink V	coefficienti di Winkler (orizzontale e verticale) adottati
Comb	Combinazione di carico in cui si verificano i valori riportati
Pt (P1 P2 P3 P4)	valori di pressione nei vertici

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

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

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.

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

Nodo	Tipo	Area	Wink V	Wink O	Comb	Pt	Pt	Pt	Pt
		m2	daN/cm3	daN/cm3		daN/cm2	daN/cm2	daN/cm2	daN/cm2
1791	PLINTO 300.00 x300.00	9.00	1.06	0.42	8	-0.65	-0.73	-0.78	-0.70
					56	-0.47	-0.54	-0.58	-0.51
					88	-0.46	-0.53	-0.57	-0.51
					115	-0.48	-0.55	-0.58	-0.52
					135	-0.47	-0.52	-0.55	-0.50
					140	-0.46	-0.51	-0.55	-0.49
					141	-0.46	-0.51	-0.55	-0.49
1839	PLINTO 300.00 x300.00	9.00	1.06	0.42	18	-0.72	-0.66	-0.68	-0.75
					61	-0.52	-0.47	-0.50	-0.56
					93	-0.52	-0.47	-0.50	-0.55
					120	-0.54	-0.49	-0.51	-0.56
					135	-0.51	-0.47	-0.49	-0.53
					140	-0.51	-0.47	-0.48	-0.52
					141	-0.51	-0.47	-0.48	-0.52



Nodo	Tipo	Area	Wink V	Wink O	Cmb	Pt	Pt	Pt	Pt
Nodo						Pt	Pt	Pt	Pt
						-0.78			
						-0.46			

Elem.	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm2	daN/cm2
359	18	-1.43	-1.39	-1.43	75	-1.04	-1.01	-1.04	107	-1.03	-1.00	-1.03
	120	-1.07	-1.03	-1.07	135	-1.02	-0.99	-1.02	140	-1.01	-0.98	-1.01
	141	-1.01	-0.98	-1.01								
360	18	-1.35	-1.30	-1.35	59	-0.98	-0.94	-0.98	91	-0.98	-0.94	-0.98
	120	-1.01	-0.96	-1.01	135	-0.96	-0.93	-0.96	140	-0.95	-0.92	-0.95
	141	-0.95	-0.92	-0.95								
361	38	-1.28	-1.27	-1.28	75	-0.96	-0.94	-0.96	107	-0.94	-0.93	-0.94
	130	-0.96	-0.94	-0.96	135	-0.92	-0.91	-0.92	140	-0.91	-0.90	-0.91
	141	-0.91	-0.90	-0.91								
362	38	-0.59	-0.62	-0.62	75	-0.47	-0.49	-0.49	107	-0.46	-0.47	-0.47
	130	-0.44	-0.46	-0.46	135	-0.43	-0.44	-0.44	140	-0.42	-0.44	-0.44
	141	-0.42	-0.44	-0.44								
363	18	-0.72	-0.75	-0.75	71	-0.54	-0.56	-0.56	103	-0.53	-0.55	-0.55
	120	-0.53	-0.55	-0.55	135	-0.50	-0.52	-0.52	140	-0.50	-0.51	-0.51
	141	-0.50	-0.51	-0.51								
364	28	-0.81	-0.80	-0.81	63	-0.60	-0.59	-0.60	95	-0.59	-0.58	-0.59
	125	-0.60	-0.59	-0.60	135	-0.56	-0.55	-0.56	140	-0.55	-0.54	-0.55
	141	-0.55	-0.54	-0.55								
365	28	-0.82	-0.81	-0.82	63	-0.60	-0.60	-0.60	95	-0.59	-0.59	-0.59
	125	-0.61	-0.60	-0.61	135	-0.57	-0.56	-0.57	140	-0.56	-0.55	-0.56
	141	-0.56	-0.55	-0.56								
366	8	-0.71	-0.68	-0.71	63	-0.54	-0.51	-0.54	95	-0.52	-0.50	-0.52
	115	-0.53	-0.51	-0.53	135	-0.50	-0.48	-0.50	140	-0.49	-0.48	-0.49
	141	-0.49	-0.48	-0.49								
367	28	-0.82	-0.82	-0.82	63	-0.60	-0.60	-0.60	95	-0.59	-0.59	-0.59
	125	-0.61	-0.61	-0.61	135	-0.57	-0.57	-0.57	140	-0.56	-0.56	-0.56
	141	-0.56	-0.56	-0.56								
368	28	-0.82	-0.82	-0.82	71	-0.60	-0.60	-0.60	103	-0.59	-0.59	-0.59
	125	-0.61	-0.61	-0.61	135	-0.57	-0.57	-0.57	140	-0.56	-0.56	-0.56
	141	-0.56	-0.56	-0.56								
369	28	-0.82	-0.82	-0.82	71	-0.60	-0.60	-0.60	103	-0.59	-0.59	-0.59
	125	-0.61	-0.61	-0.61	135	-0.57	-0.57	-0.57	140	-0.56	-0.56	-0.56
	141	-0.56	-0.56	-0.56								
370	28	-0.82	-0.82	-0.82	71	-0.60	-0.60	-0.60	103	-0.59	-0.59	-0.59
	125	-0.61	-0.61	-0.61	135	-0.57	-0.57	-0.57	140	-0.56	-0.56	-0.56
	141	-0.56	-0.56	-0.56								
371	28	-0.82	-0.82	-0.82	71	-0.61	-0.60	-0.61	103	-0.59	-0.59	-0.59
	125	-0.61	-0.61	-0.61	135	-0.57	-0.57	-0.57	140	-0.56	-0.56	-0.56
	141	-0.56	-0.56	-0.56								
372	28	-0.82	-0.82	-0.82	71	-0.61	-0.61	-0.61	103	-0.59	-0.59	-0.59
	125	-0.61	-0.61	-0.61	135	-0.57	-0.57	-0.57	140	-0.56	-0.56	-0.56
	141	-0.56	-0.56	-0.56								
373	28	-0.82	-0.82	-0.82	71	-0.61	-0.61	-0.61	103	-0.59	-0.59	-0.59
	125	-0.61	-0.61	-0.61	135	-0.57	-0.57	-0.57	140	-0.56	-0.56	-0.56
	141	-0.56	-0.56	-0.56								
374	28	-0.81	-0.82	-0.82	71	-0.60	-0.61	-0.61	103	-0.59	-0.59	-0.59
	125	-0.60	-0.61	-0.61	135	-0.56	-0.57	-0.57	140	-0.55	-0.56	-0.56
	141	-0.55	-0.56	-0.56								
375	18	-0.77	-0.77	-0.77	75	-0.56	-0.57	-0.57	107	-0.56	-0.56	-0.56
	120	-0.57	-0.57	-0.57	135	-0.54	-0.54	-0.54	140	-0.53	-0.54	-0.54
	141	-0.53	-0.54	-0.54								
376	8	-0.91	-0.92	-0.92	47	-0.69	-0.70	-0.70	79	-0.68	-0.68	-0.68
	115	-0.68	-0.68	-0.68	135	-0.65	-0.65	-0.65	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
377	8	-0.91	-0.91	-0.91	47	-0.69	-0.69	-0.69	79	-0.68	-0.68	-0.68
	115	-0.68	-0.68	-0.68	135	-0.65	-0.65	-0.65	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
378	8	-0.91	-0.91	-0.91	47	-0.69	-0.69	-0.69	79	-0.67	-0.68	-0.68
	115	-0.68	-0.68	-0.68	135	-0.65	-0.65	-0.65	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
379	8	-0.91	-0.91	-0.91	47	-0.69	-0.69	-0.69	79	-0.67	-0.67	-0.67
	115	-0.68	-0.68	-0.68	135	-0.64	-0.65	-0.65	140	-0.64	-0.64	-0.64



Elem.	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max
	141	-0.64	-0.64	-0.64								
380	8	-0.91	-0.91	-0.91	47	-0.68	-0.69	-0.69	79	-0.67	-0.67	-0.67
	115	-0.67	-0.68	-0.68	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
381	8	-0.91	-0.91	-0.91	47	-0.68	-0.68	-0.68	79	-0.67	-0.67	-0.67
	115	-0.67	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
382	8	-0.91	-0.91	-0.91	47	-0.68	-0.68	-0.68	79	-0.67	-0.67	-0.67
	115	-0.67	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
383	8	-0.91	-0.91	-0.91	47	-0.68	-0.68	-0.68	79	-0.67	-0.67	-0.67
	115	-0.67	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
384	8	-0.91	-0.91	-0.91	51	-0.67	-0.68	-0.68	83	-0.66	-0.67	-0.67
	115	-0.67	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
385	28	-0.91	-0.91	-0.91	51	-0.67	-0.67	-0.67	83	-0.66	-0.66	-0.66
	125	-0.68	-0.67	-0.68	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
386	28	-0.91	-0.91	-0.91	71	-0.67	-0.67	-0.67	103	-0.66	-0.66	-0.66
	125	-0.68	-0.68	-0.68	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
387	28	-0.91	-0.91	-0.91	71	-0.67	-0.67	-0.67	103	-0.66	-0.66	-0.66
	125	-0.68	-0.68	-0.68	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
388	28	-0.91	-0.91	-0.91	71	-0.67	-0.67	-0.67	103	-0.66	-0.66	-0.66
	125	-0.68	-0.68	-0.68	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
389	28	-0.91	-0.91	-0.91	71	-0.67	-0.67	-0.67	103	-0.66	-0.66	-0.66
	125	-0.68	-0.68	-0.68	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
390	28	-0.91	-0.91	-0.91	71	-0.67	-0.67	-0.67	103	-0.66	-0.66	-0.66
	125	-0.68	-0.68	-0.68	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
391	28	-0.91	-0.91	-0.91	71	-0.67	-0.67	-0.67	103	-0.66	-0.66	-0.66
	125	-0.67	-0.68	-0.68	135	-0.64	-0.64	-0.64	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
392	28	-0.91	-0.91	-0.91	71	-0.67	-0.67	-0.67	103	-0.66	-0.66	-0.66
	125	-0.67	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.63	-0.64	-0.64
	141	-0.63	-0.64	-0.64								
393	28	-0.91	-0.91	-0.91	71	-0.66	-0.67	-0.67	103	-0.65	-0.66	-0.66
	125	-0.67	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.63	-0.63	-0.63
	141	-0.63	-0.63	-0.63								
394	28	-0.90	-0.91	-0.91	71	-0.66	-0.66	-0.66	103	-0.65	-0.65	-0.65
	125	-0.67	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.63	-0.63	-0.63
	141	-0.63	-0.63	-0.63								
395	28	-0.90	-0.90	-0.90	71	-0.66	-0.66	-0.66	103	-0.65	-0.65	-0.65
	125	-0.67	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.63	-0.63	-0.63
	141	-0.63	-0.63	-0.63								
396	28	-0.89	-0.90	-0.90	71	-0.65	-0.66	-0.66	103	-0.64	-0.65	-0.65
	125	-0.66	-0.67	-0.67	135	-0.63	-0.64	-0.64	140	-0.62	-0.63	-0.63
	141	-0.62	-0.63	-0.63								
397	28	-0.89	-0.89	-0.89	71	-0.65	-0.65	-0.65	103	-0.64	-0.64	-0.64
	125	-0.66	-0.66	-0.66	135	-0.63	-0.63	-0.63	140	-0.62	-0.62	-0.62
	141	-0.62	-0.62	-0.62								
398	28	-0.87	-0.89	-0.89	71	-0.63	-0.65	-0.65	103	-0.63	-0.64	-0.64
	125	-0.65	-0.66	-0.66	135	-0.62	-0.63	-0.63	140	-0.61	-0.62	-0.62
	141	-0.61	-0.62	-0.62								
399	28	-0.87	-0.87	-0.87	71	-0.63	-0.63	-0.63	103	-0.62	-0.63	-0.63
	125	-0.64	-0.65	-0.65	135	-0.61	-0.62	-0.62	140	-0.61	-0.61	-0.61
	141	-0.61	-0.61	-0.61								
400	28	-0.86	-0.87	-0.87	71	-0.62	-0.63	-0.63	103	-0.62	-0.62	-0.62
	125	-0.64	-0.64	-0.64	135	-0.61	-0.61	-0.61	140	-0.60	-0.61	-0.61
	141	-0.60	-0.61	-0.61								
401	28	-0.83	-0.84	-0.84	75	-0.61	-0.61	-0.61	107	-0.60	-0.61	-0.61
	125	-0.62	-0.62	-0.62	135	-0.59	-0.59	-0.59	140	-0.58	-0.59	-0.59
	141	-0.58	-0.59	-0.59								
402	18	-0.78	-0.78	-0.78	75	-0.57	-0.58	-0.58	107	-0.57	-0.57	-0.57
	120	-0.58	-0.58	-0.58	135	-0.55	-0.55	-0.55	140	-0.54	-0.55	-0.55
	141	-0.54	-0.55	-0.55								



Elem.	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max
403	28	-0.84	-0.85	-0.85	75	-0.61	-0.62	-0.62	107	-0.61	-0.61	-0.61
	125	-0.62	-0.63	-0.63	135	-0.59	-0.60	-0.60	140	-0.59	-0.59	-0.59
	141	-0.59	-0.59	-0.59								
404	18	-0.77	-0.78	-0.78	75	-0.57	-0.57	-0.57	107	-0.56	-0.57	-0.57
	120	-0.57	-0.58	-0.58	135	-0.55	-0.55	-0.55	140	-0.54	-0.54	-0.54
	141	-0.54	-0.54	-0.54								
405	18	-0.78	-0.79	-0.79	75	-0.58	-0.58	-0.58	107	-0.57	-0.57	-0.57
	120	-0.58	-0.59	-0.59	135	-0.55	-0.56	-0.56	140	-0.55	-0.55	-0.55
	141	-0.55	-0.55	-0.55								
406	28	-0.85	-0.85	-0.85	75	-0.62	-0.62	-0.62	107	-0.61	-0.61	-0.61
	125	-0.63	-0.63	-0.63	135	-0.60	-0.60	-0.60	140	-0.59	-0.60	-0.60
	141	-0.59	-0.60	-0.60								
407	18	-0.77	-0.77	-0.77	75	-0.57	-0.57	-0.57	107	-0.56	-0.56	-0.56
	120	-0.57	-0.57	-0.57	135	-0.54	-0.55	-0.55	140	-0.54	-0.54	-0.54
	141	-0.54	-0.54	-0.54								
408	28	-0.83	-0.83	-0.83	75	-0.61	-0.61	-0.61	107	-0.60	-0.60	-0.60
	125	-0.61	-0.62	-0.62	135	-0.59	-0.59	-0.59	140	-0.58	-0.58	-0.58
	141	-0.58	-0.58	-0.58								
409	28	-0.85	-0.86	-0.86	71	-0.62	-0.62	-0.62	103	-0.61	-0.62	-0.62
	125	-0.63	-0.64	-0.64	135	-0.60	-0.61	-0.61	140	-0.60	-0.60	-0.60
	141	-0.60	-0.60	-0.60								
410	28	-0.82	-0.83	-0.83	75	-0.60	-0.61	-0.61	107	-0.59	-0.60	-0.60
	125	-0.61	-0.61	-0.61	135	-0.58	-0.59	-0.59	140	-0.57	-0.58	-0.58
	141	-0.57	-0.58	-0.58								
411	18	-0.82	-0.82	-0.82	75	-0.60	-0.60	-0.60	107	-0.59	-0.59	-0.59
	120	-0.60	-0.61	-0.61	135	-0.58	-0.58	-0.58	140	-0.57	-0.57	-0.57
	141	-0.57	-0.57	-0.57								
412	18	-0.81	-0.82	-0.82	75	-0.59	-0.60	-0.60	107	-0.59	-0.59	-0.59
	120	-0.60	-0.60	-0.60	135	-0.57	-0.58	-0.58	140	-0.57	-0.57	-0.57
	141	-0.57	-0.57	-0.57								
413	18	-0.80	-0.81	-0.81	75	-0.59	-0.59	-0.59	107	-0.58	-0.59	-0.59
	120	-0.59	-0.60	-0.60	135	-0.57	-0.57	-0.57	140	-0.56	-0.57	-0.57
	141	-0.56	-0.57	-0.57								
414	18	-0.80	-0.80	-0.80	75	-0.58	-0.59	-0.59	107	-0.58	-0.58	-0.58
	120	-0.59	-0.59	-0.59	135	-0.56	-0.57	-0.57	140	-0.56	-0.56	-0.56
	141	-0.56	-0.56	-0.56								
415	18	-0.79	-0.80	-0.80	75	-0.58	-0.58	-0.58	107	-0.57	-0.58	-0.58
	120	-0.59	-0.59	-0.59	135	-0.56	-0.56	-0.56	140	-0.55	-0.56	-0.56
	141	-0.55	-0.56	-0.56								
416	38	-0.87	-0.88	-0.88	71	-0.70	-0.71	-0.71	103	-0.68	-0.68	-0.68
	130	-0.65	-0.66	-0.66	135	-0.62	-0.63	-0.63	140	-0.62	-0.63	-0.63
	141	-0.62	-0.63	-0.63								
417	38	-0.88	-0.89	-0.89	75	-0.72	-0.72	-0.72	107	-0.69	-0.70	-0.70
	130	-0.66	-0.67	-0.67	135	-0.64	-0.64	-0.64	140	-0.63	-0.64	-0.64
	141	-0.63	-0.64	-0.64								
418	38	-0.88	-0.89	-0.89	71	-0.71	-0.71	-0.71	103	-0.68	-0.69	-0.69
	130	-0.66	-0.67	-0.67	135	-0.63	-0.64	-0.64	140	-0.63	-0.63	-0.63
	141	-0.63	-0.63	-0.63								
419	38	-0.89	-0.90	-0.90	75	-0.72	-0.73	-0.73	107	-0.70	-0.70	-0.70
	130	-0.67	-0.68	-0.68	135	-0.64	-0.65	-0.65	140	-0.64	-0.64	-0.64
	141	-0.64	-0.64	-0.64								
420	38	-0.89	-0.90	-0.90	71	-0.71	-0.72	-0.72	103	-0.69	-0.70	-0.70
	130	-0.67	-0.68	-0.68	135	-0.64	-0.65	-0.65	140	-0.63	-0.64	-0.64
	141	-0.63	-0.64	-0.64								
421	38	-0.90	-0.92	-0.92	75	-0.73	-0.73	-0.73	107	-0.70	-0.71	-0.71
	130	-0.68	-0.69	-0.69	135	-0.65	-0.66	-0.66	140	-0.64	-0.65	-0.65
	141	-0.64	-0.65	-0.65								
422	38	-0.90	-0.91	-0.91	71	-0.72	-0.72	-0.72	103	-0.70	-0.70	-0.70
	130	-0.68	-0.68	-0.68	135	-0.65	-0.66	-0.66	140	-0.64	-0.65	-0.65
	141	-0.64	-0.65	-0.65								
423	38	-0.92	-0.92	-0.92	75	-0.73	-0.73	-0.73	107	-0.71	-0.71	-0.71
	130	-0.69	-0.69	-0.69	135	-0.66	-0.66	-0.66	140	-0.65	-0.66	-0.66
	141	-0.65	-0.66	-0.66								
424	38	-0.91	-0.92	-0.92	71	-0.72	-0.73	-0.73	103	-0.70	-0.71	-0.71
	130	-0.68	-0.69	-0.69	135	-0.66	-0.66	-0.66	140	-0.65	-0.66	-0.66
	141	-0.65	-0.66	-0.66								
425	38	-0.92	-0.93	-0.93	75	-0.73	-0.74	-0.74	107	-0.71	-0.72	-0.72
	130	-0.69	-0.70	-0.70	135	-0.66	-0.67	-0.67	140	-0.66	-0.67	-0.67
	141	-0.66	-0.67	-0.67								
426	38	-0.92	-0.93	-0.93	71	-0.73	-0.73	-0.73	103	-0.71	-0.71	-0.71



Elem.	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max
	130	-0.69	-0.70	-0.70	135	-0.66	-0.67	-0.67	140	-0.66	-0.66	-0.66
	141	-0.66	-0.66	-0.66								
427	38	-0.93	-0.94	-0.94	75	-0.74	-0.74	-0.74	107	-0.72	-0.72	-0.72
	130	-0.70	-0.71	-0.71	135	-0.67	-0.68	-0.68	140	-0.67	-0.67	-0.67
	141	-0.67	-0.67	-0.67								
428	38	-0.93	-0.94	-0.94	71	-0.73	-0.73	-0.73	103	-0.71	-0.72	-0.72
	130	-0.70	-0.71	-0.71	135	-0.67	-0.68	-0.68	140	-0.66	-0.67	-0.67
	141	-0.66	-0.67	-0.67								
429	38	-0.94	-0.95	-0.95	75	-0.74	-0.74	-0.74	107	-0.72	-0.72	-0.72
	130	-0.71	-0.71	-0.71	135	-0.68	-0.68	-0.68	140	-0.67	-0.68	-0.68
	141	-0.67	-0.68	-0.68								
430	38	-0.94	-0.95	-0.95	71	-0.73	-0.74	-0.74	103	-0.72	-0.72	-0.72
	130	-0.71	-0.71	-0.71	135	-0.68	-0.69	-0.69	140	-0.67	-0.68	-0.68
	141	-0.67	-0.68	-0.68								
431	38	-0.95	-0.96	-0.96	75	-0.74	-0.75	-0.75	107	-0.72	-0.73	-0.73
	130	-0.71	-0.72	-0.72	135	-0.68	-0.69	-0.69	140	-0.68	-0.69	-0.69
	141	-0.68	-0.69	-0.69								
432	38	-0.95	-0.96	-0.96	71	-0.74	-0.74	-0.74	103	-0.72	-0.73	-0.73
	130	-0.71	-0.72	-0.72	135	-0.69	-0.69	-0.69	140	-0.68	-0.69	-0.69
	141	-0.68	-0.69	-0.69								
433	38	-0.96	-0.97	-0.97	75	-0.75	-0.75	-0.75	107	-0.73	-0.73	-0.73
	130	-0.72	-0.73	-0.73	135	-0.69	-0.70	-0.70	140	-0.69	-0.69	-0.69
	141	-0.69	-0.69	-0.69								
434	38	-0.96	-0.98	-0.98	71	-0.74	-0.75	-0.75	103	-0.73	-0.73	-0.73
	130	-0.72	-0.73	-0.73	135	-0.69	-0.70	-0.70	140	-0.69	-0.70	-0.70
	141	-0.69	-0.70	-0.70								
435	38	-0.97	-0.98	-0.98	75	-0.75	-0.75	-0.75	107	-0.73	-0.74	-0.74
	130	-0.73	-0.73	-0.73	135	-0.70	-0.71	-0.71	140	-0.69	-0.70	-0.70
	141	-0.69	-0.70	-0.70								
436	38	-0.98	-0.99	-0.99	71	-0.75	-0.76	-0.76	103	-0.73	-0.74	-0.74
	130	-0.73	-0.74	-0.74	135	-0.70	-0.71	-0.71	140	-0.70	-0.70	-0.70
	141	-0.70	-0.70	-0.70								
437	38	-0.98	-0.99	-0.99	75	-0.75	-0.76	-0.76	107	-0.74	-0.74	-0.74
	130	-0.73	-0.74	-0.74	135	-0.71	-0.71	-0.71	140	-0.70	-0.71	-0.71
	141	-0.70	-0.71	-0.71								
438	38	-0.99	-1.00	-1.00	71	-0.76	-0.76	-0.76	103	-0.74	-0.75	-0.75
	130	-0.74	-0.75	-0.75	135	-0.71	-0.72	-0.72	140	-0.70	-0.71	-0.71
	141	-0.70	-0.71	-0.71								
439	38	-0.99	-1.00	-1.00	75	-0.76	-0.76	-0.76	107	-0.74	-0.75	-0.75
	130	-0.74	-0.75	-0.75	135	-0.71	-0.72	-0.72	140	-0.71	-0.71	-0.71
	141	-0.71	-0.71	-0.71								
440	38	-1.00	-1.01	-1.01	71	-0.76	-0.77	-0.77	103	-0.75	-0.75	-0.75
	130	-0.75	-0.76	-0.76	135	-0.72	-0.73	-0.73	140	-0.71	-0.72	-0.72
	141	-0.71	-0.72	-0.72								
441	38	-1.00	-1.01	-1.01	75	-0.76	-0.77	-0.77	107	-0.75	-0.75	-0.75
	130	-0.75	-0.76	-0.76	135	-0.72	-0.73	-0.73	140	-0.71	-0.72	-0.72
	141	-0.71	-0.72	-0.72								
442	38	-1.01	-1.02	-1.02	71	-0.77	-0.77	-0.77	103	-0.75	-0.76	-0.76
	130	-0.76	-0.77	-0.77	135	-0.73	-0.74	-0.74	140	-0.72	-0.73	-0.73
	141	-0.72	-0.73	-0.73								
443	38	-1.01	-1.03	-1.03	75	-0.77	-0.77	-0.77	107	-0.75	-0.76	-0.76
	130	-0.76	-0.77	-0.77	135	-0.73	-0.74	-0.74	140	-0.72	-0.73	-0.73
	141	-0.72	-0.73	-0.73								
444	38	-1.02	-1.04	-1.04	71	-0.77	-0.78	-0.78	103	-0.76	-0.77	-0.77
	130	-0.77	-0.78	-0.78	135	-0.74	-0.75	-0.75	140	-0.73	-0.74	-0.74
	141	-0.73	-0.74	-0.74								
445	38	-1.03	-1.04	-1.04	75	-0.77	-0.78	-0.78	107	-0.76	-0.77	-0.77
	130	-0.77	-0.78	-0.78	135	-0.74	-0.75	-0.75	140	-0.73	-0.74	-0.74
	141	-0.73	-0.74	-0.74								
446	38	-1.04	-1.06	-1.06	71	-0.78	-0.79	-0.79	95	-0.77	-0.78	-0.78
	130	-0.78	-0.79	-0.79	135	-0.75	-0.76	-0.76	140	-0.74	-0.75	-0.75
	141	-0.74	-0.75	-0.75								
447	38	-1.04	-1.06	-1.06	75	-0.78	-0.79	-0.79	107	-0.77	-0.78	-0.78
	130	-0.78	-0.79	-0.79	135	-0.75	-0.76	-0.76	140	-0.74	-0.75	-0.75
	141	-0.74	-0.75	-0.75								
448	38	-1.06	-1.07	-1.07	63	-0.79	-0.80	-0.80	95	-0.78	-0.79	-0.79
	130	-0.79	-0.80	-0.80	135	-0.76	-0.77	-0.77	140	-0.75	-0.76	-0.76
	141	-0.75	-0.76	-0.76								
449	38	-1.06	-1.07	-1.07	75	-0.79	-0.79	-0.79	107	-0.78	-0.78	-0.78
	130	-0.79	-0.80	-0.80	135	-0.76	-0.77	-0.77	140	-0.75	-0.76	-0.76

Elem.	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max	Cmb	Pt ini	Pt fin	Pt max
	141	-0.75	-0.76	-0.76								
450	38	-1.07	-1.08	-1.08	63	-0.80	-0.81	-0.81	95	-0.79	-0.80	-0.80
	130	-0.80	-0.81	-0.81	135	-0.77	-0.78	-0.78	140	-0.76	-0.77	-0.77
	141	-0.76	-0.77	-0.77								
451	18	-1.07	-1.08	-1.08	75	-0.79	-0.80	-0.80	107	-0.78	-0.79	-0.79
	120	-0.80	-0.81	-0.81	135	-0.77	-0.78	-0.78	140	-0.76	-0.77	-0.77
	141	-0.76	-0.77	-0.77								
452	8	-1.08	-1.10	-1.10	63	-0.81	-0.82	-0.82	95	-0.80	-0.81	-0.81
	115	-0.81	-0.82	-0.82	135	-0.78	-0.79	-0.79	140	-0.77	-0.78	-0.78
	141	-0.77	-0.78	-0.78								
453	18	-1.08	-1.10	-1.10	75	-0.80	-0.81	-0.81	107	-0.79	-0.80	-0.80
	120	-0.81	-0.82	-0.82	135	-0.78	-0.79	-0.79	140	-0.77	-0.78	-0.78
	141	-0.77	-0.78	-0.78								
454	8	-1.10	-1.11	-1.11	63	-0.82	-0.83	-0.83	95	-0.81	-0.82	-0.82
	115	-0.82	-0.84	-0.84	135	-0.79	-0.80	-0.80	140	-0.78	-0.79	-0.79
	141	-0.78	-0.79	-0.79								
455	18	-1.10	-1.11	-1.11	75	-0.81	-0.81	-0.81	107	-0.80	-0.81	-0.81
	120	-0.82	-0.83	-0.83	135	-0.79	-0.80	-0.80	140	-0.78	-0.79	-0.79
	141	-0.78	-0.79	-0.79								
456	8	-1.11	-1.13	-1.13	63	-0.83	-0.83	-0.83	95	-0.82	-0.83	-0.83
	115	-0.84	-0.85	-0.85	135	-0.80	-0.81	-0.81	140	-0.79	-0.80	-0.80
	141	-0.79	-0.80	-0.80								
457	18	-1.11	-1.12	-1.12	75	-0.81	-0.82	-0.82	107	-0.81	-0.81	-0.81
	120	-0.83	-0.84	-0.84	135	-0.80	-0.80	-0.80	140	-0.79	-0.80	-0.80
	141	-0.79	-0.80	-0.80								
458	8	-1.13	-1.14	-1.14	63	-0.83	-0.84	-0.84	95	-0.83	-0.83	-0.83
...												
611	141	-0.43	-0.42	-0.43	135	-0.44	-0.42	-0.44	140	-0.43	-0.42	-0.43
Elem.		Pt ini	Pt fin	Pt max		Pt ini	Pt fin	Pt max		Pt ini	Pt fin	Pt max
		-2.44										
		-0.35										

RISULTATI ELEMENTI TIPO TRAVE

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

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

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

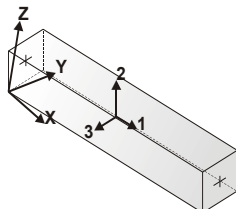
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

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

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

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

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



orientamento elementi 2D
non verticali



orientamento elementi 2D
verticali

Pilas.	Cmb	M3 mx/mn daN cm	M2 mx/mn daN cm	D 2 / D 3 cm	Q 2 / Q 3 daN	Pos. cm	N daN	V 2 daN	V 3 daN	T daN cm	M 2 daN cm	M 3 daN cm
1	8	0.0	0.0	0.0	0.0	0.0	-3895.74	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-3895.74	0.0	0.0	0.0	0.0	0.0
						200.0	-3895.74	0.0	0.0	0.0	0.0	0.0
1	29	0.0	0.0	0.0	0.0	0.0	-2018.67	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2018.67	0.0	0.0	0.0	0.0	0.0
						200.0	-2018.67	0.0	0.0	0.0	0.0	0.0
1	72	0.0	0.0	0.0	0.0	0.0	-1877.45	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1877.45	0.0	0.0	0.0	0.0	0.0
						200.0	-1877.45	0.0	0.0	0.0	0.0	0.0
1	73	0.0	0.0	0.0	0.0	0.0	-2279.42	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2279.42	0.0	0.0	0.0	0.0	0.0
						200.0	-2279.42	0.0	0.0	0.0	0.0	0.0
1	104	0.0	0.0	0.0	0.0	0.0	-1933.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1933.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1933.64	0.0	0.0	0.0	0.0	0.0
1	105	0.0	0.0	0.0	0.0	0.0	-2223.23	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2223.23	0.0	0.0	0.0	0.0	0.0
						200.0	-2223.23	0.0	0.0	0.0	0.0	0.0
1	115	0.0	0.0	0.0	0.0	0.0	-2834.44	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2834.44	0.0	0.0	0.0	0.0	0.0
						200.0	-2834.44	0.0	0.0	0.0	0.0	0.0
1	124	0.0	0.0	0.0	0.0	0.0	-2078.44	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2078.44	0.0	0.0	0.0	0.0	0.0
						200.0	-2078.44	0.0	0.0	0.0	0.0	0.0
1	135	0.0	0.0	0.0	0.0	0.0	-2229.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2229.64	0.0	0.0	0.0	0.0	0.0
						200.0	-2229.64	0.0	0.0	0.0	0.0	0.0
1	138	0.0	0.0	0.0	0.0	0.0	-2078.44	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2078.44	0.0	0.0	0.0	0.0	0.0
						200.0	-2078.44	0.0	0.0	0.0	0.0	0.0
1	140	0.0	0.0	0.0	0.0	0.0	-2078.44	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2078.44	0.0	0.0	0.0	0.0	0.0
						200.0	-2078.44	0.0	0.0	0.0	0.0	0.0
1	141	0.0	0.0	0.0	0.0	0.0	-2078.44	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2078.44	0.0	0.0	0.0	0.0	0.0
						200.0	-2078.44	0.0	0.0	0.0	0.0	0.0
2	8	0.0	0.0	0.0	0.0	0.0	8587.86	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	8587.86	0.0	0.0	0.0	0.0	0.0
						160.0	8587.86	0.0	0.0	0.0	0.0	0.0
2	25	0.0	0.0	0.0	0.0	0.0	5234.40	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5234.40	0.0	0.0	0.0	0.0	0.0
						160.0	5234.40	0.0	0.0	0.0	0.0	0.0
2	60	0.0	0.0	0.0	0.0	0.0	5710.58	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5710.58	0.0	0.0	0.0	0.0	0.0
						160.0	5710.58	0.0	0.0	0.0	0.0	0.0
2	61	0.0	0.0	0.0	0.0	0.0	5467.61	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5467.61	0.0	0.0	0.0	0.0	0.0
						160.0	5467.61	0.0	0.0	0.0	0.0	0.0
2	92	0.0	0.0	0.0	0.0	0.0	5677.37	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5677.37	0.0	0.0	0.0	0.0	0.0
						160.0	5677.37	0.0	0.0	0.0	0.0	0.0



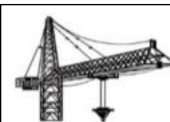
Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
2	93	0.0	0.0	0.0	0.0	0.0	5500.82	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5500.82	0.0	0.0	0.0	0.0	0.0
						160.0	5500.82	0.0	0.0	0.0	0.0	0.0
2	115	0.0	0.0	0.0	0.0	0.0	6233.99	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	6233.99	0.0	0.0	0.0	0.0	0.0
						160.0	6233.99	0.0	0.0	0.0	0.0	0.0
2	122	0.0	0.0	0.0	0.0	0.0	5589.10	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5589.10	0.0	0.0	0.0	0.0	0.0
						160.0	5589.10	0.0	0.0	0.0	0.0	0.0
2	135	0.0	0.0	0.0	0.0	0.0	5718.07	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5718.07	0.0	0.0	0.0	0.0	0.0
						160.0	5718.07	0.0	0.0	0.0	0.0	0.0
2	137	0.0	0.0	0.0	0.0	0.0	5589.10	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5589.10	0.0	0.0	0.0	0.0	0.0
						160.0	5589.10	0.0	0.0	0.0	0.0	0.0
2	140	0.0	0.0	0.0	0.0	0.0	5589.10	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5589.10	0.0	0.0	0.0	0.0	0.0
						160.0	5589.10	0.0	0.0	0.0	0.0	0.0
2	141	0.0	0.0	0.0	0.0	0.0	5589.10	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5589.10	0.0	0.0	0.0	0.0	0.0
						160.0	5589.10	0.0	0.0	0.0	0.0	0.0
3	8	0.0	0.0	0.0	0.0	0.0	-3729.96	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-3729.96	0.0	0.0	0.0	0.0	0.0
						200.0	-3729.96	0.0	0.0	0.0	0.0	0.0
3	25	0.0	0.0	0.0	0.0	0.0	-1937.72	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1937.72	0.0	0.0	0.0	0.0	0.0
						200.0	-1937.72	0.0	0.0	0.0	0.0	0.0
3	71	0.0	0.0	0.0	0.0	0.0	-2236.40	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2236.40	0.0	0.0	0.0	0.0	0.0
						200.0	-2236.40	0.0	0.0	0.0	0.0	0.0
3	74	0.0	0.0	0.0	0.0	0.0	-1752.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1752.88	0.0	0.0	0.0	0.0	0.0
						200.0	-1752.88	0.0	0.0	0.0	0.0	0.0
3	103	0.0	0.0	0.0	0.0	0.0	-2168.80	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2168.80	0.0	0.0	0.0	0.0	0.0
						200.0	-2168.80	0.0	0.0	0.0	0.0	0.0
3	106	0.0	0.0	0.0	0.0	0.0	-1820.49	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1820.49	0.0	0.0	0.0	0.0	0.0
						200.0	-1820.49	0.0	0.0	0.0	0.0	0.0
3	115	0.0	0.0	0.0	0.0	0.0	-2714.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2714.64	0.0	0.0	0.0	0.0	0.0
						200.0	-2714.64	0.0	0.0	0.0	0.0	0.0
3	122	0.0	0.0	0.0	0.0	0.0	-1994.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1994.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1994.64	0.0	0.0	0.0	0.0	0.0
3	135	0.0	0.0	0.0	0.0	0.0	-2138.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2138.64	0.0	0.0	0.0	0.0	0.0
						200.0	-2138.64	0.0	0.0	0.0	0.0	0.0
3	137	0.0	0.0	0.0	0.0	0.0	-1994.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1994.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1994.64	0.0	0.0	0.0	0.0	0.0
3	140	0.0	0.0	0.0	0.0	0.0	-1994.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1994.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1994.64	0.0	0.0	0.0	0.0	0.0
3	141	0.0	0.0	0.0	0.0	0.0	-1994.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1994.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1994.64	0.0	0.0	0.0	0.0	0.0
4	13	0.0	0.0	0.0	0.0	0.0	4923.33	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	4923.33	0.0	0.0	0.0	0.0	0.0
						160.0	4923.33	0.0	0.0	0.0	0.0	0.0
4	18	0.0	0.0	0.0	0.0	0.0	8077.49	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	8077.49	0.0	0.0	0.0	0.0	0.0
						160.0	8077.49	0.0	0.0	0.0	0.0	0.0
4	76	0.0	0.0	0.0	0.0	0.0	5145.93	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5145.93	0.0	0.0	0.0	0.0	0.0
						160.0	5145.93	0.0	0.0	0.0	0.0	0.0
4	77	0.0	0.0	0.0	0.0	0.0	5367.95	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5367.95	0.0	0.0	0.0	0.0	0.0
						160.0	5367.95	0.0	0.0	0.0	0.0	0.0
4	108	0.0	0.0	0.0	0.0	0.0	5175.18	0.0	0.0	0.0	0.0	0.0



Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		0.0	0.0	0.0	0.0	80.0	5175.18	0.0	0.0	0.0	0.0	0.0
						160.0	5175.18	0.0	0.0	0.0	0.0	0.0
4	109	0.0	0.0	0.0	0.0	0.0	5338.70	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5338.70	0.0	0.0	0.0	0.0	0.0
						160.0	5338.70	0.0	0.0	0.0	0.0	0.0
4	116	0.0	0.0	0.0	0.0	0.0	5256.94	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5256.94	0.0	0.0	0.0	0.0	0.0
						160.0	5256.94	0.0	0.0	0.0	0.0	0.0
4	120	0.0	0.0	0.0	0.0	0.0	5863.51	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5863.51	0.0	0.0	0.0	0.0	0.0
						160.0	5863.51	0.0	0.0	0.0	0.0	0.0
4	135	0.0	0.0	0.0	0.0	0.0	5378.25	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5378.25	0.0	0.0	0.0	0.0	0.0
						160.0	5378.25	0.0	0.0	0.0	0.0	0.0
4	136	0.0	0.0	0.0	0.0	0.0	5256.94	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5256.94	0.0	0.0	0.0	0.0	0.0
						160.0	5256.94	0.0	0.0	0.0	0.0	0.0
4	140	0.0	0.0	0.0	0.0	0.0	5256.94	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5256.94	0.0	0.0	0.0	0.0	0.0
						160.0	5256.94	0.0	0.0	0.0	0.0	0.0
4	141	0.0	0.0	0.0	0.0	0.0	5256.94	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5256.94	0.0	0.0	0.0	0.0	0.0
						160.0	5256.94	0.0	0.0	0.0	0.0	0.0
5	13	0.0	0.0	0.0	0.0	0.0	-1952.46	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1952.46	0.0	0.0	0.0	0.0	0.0
						200.0	-1952.46	0.0	0.0	0.0	0.0	0.0
5	38	0.0	0.0	0.0	0.0	0.0	-3749.12	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-3749.12	0.0	0.0	0.0	0.0	0.0
						200.0	-3749.12	0.0	0.0	0.0	0.0	0.0
5	72	0.0	0.0	0.0	0.0	0.0	-1751.94	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1751.94	0.0	0.0	0.0	0.0	0.0
						200.0	-1751.94	0.0	0.0	0.0	0.0	0.0
5	73	0.0	0.0	0.0	0.0	0.0	-2266.83	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2266.83	0.0	0.0	0.0	0.0	0.0
						200.0	-2266.83	0.0	0.0	0.0	0.0	0.0
5	104	0.0	0.0	0.0	0.0	0.0	-1823.93	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1823.93	0.0	0.0	0.0	0.0	0.0
						200.0	-1823.93	0.0	0.0	0.0	0.0	0.0
5	105	0.0	0.0	0.0	0.0	0.0	-2194.84	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2194.84	0.0	0.0	0.0	0.0	0.0
						200.0	-2194.84	0.0	0.0	0.0	0.0	0.0
5	116	0.0	0.0	0.0	0.0	0.0	-2009.38	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2009.38	0.0	0.0	0.0	0.0	0.0
						200.0	-2009.38	0.0	0.0	0.0	0.0	0.0
5	130	0.0	0.0	0.0	0.0	0.0	-2729.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2729.39	0.0	0.0	0.0	0.0	0.0
						200.0	-2729.39	0.0	0.0	0.0	0.0	0.0
5	135	0.0	0.0	0.0	0.0	0.0	-2153.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2153.39	0.0	0.0	0.0	0.0	0.0
						200.0	-2153.39	0.0	0.0	0.0	0.0	0.0
5	138	0.0	0.0	0.0	0.0	0.0	-2009.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2009.39	0.0	0.0	0.0	0.0	0.0
						200.0	-2009.39	0.0	0.0	0.0	0.0	0.0
5	140	0.0	0.0	0.0	0.0	0.0	-2009.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2009.39	0.0	0.0	0.0	0.0	0.0
						200.0	-2009.39	0.0	0.0	0.0	0.0	0.0
5	141	0.0	0.0	0.0	0.0	0.0	-2009.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2009.39	0.0	0.0	0.0	0.0	0.0
						200.0	-2009.39	0.0	0.0	0.0	0.0	0.0
6	8	0.0	0.0	0.0	0.0	0.0	8219.65	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	8219.65	0.0	0.0	0.0	0.0	0.0
						160.0	8219.65	0.0	0.0	0.0	0.0	0.0
6	25	0.0	0.0	0.0	0.0	0.0	5009.98	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5009.98	0.0	0.0	0.0	0.0	0.0
						160.0	5009.98	0.0	0.0	0.0	0.0	0.0
6	76	0.0	0.0	0.0	0.0	0.0	5471.58	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5471.58	0.0	0.0	0.0	0.0	0.0
						160.0	5471.58	0.0	0.0	0.0	0.0	0.0
6	77	0.0	0.0	0.0	0.0	0.0	5227.34	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5227.34	0.0	0.0	0.0	0.0	0.0

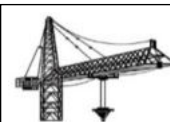


Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
6	108	0.0	0.0	0.0	0.0	160.0	5227.34	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5440.03	0.0	0.0	0.0	0.0	0.0
						160.0	5440.03	0.0	0.0	0.0	0.0	0.0
6	109	0.0	0.0	0.0	0.0	0.0	5258.89	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5258.89	0.0	0.0	0.0	0.0	0.0
						160.0	5258.89	0.0	0.0	0.0	0.0	0.0
6	115	0.0	0.0	0.0	0.0	0.0	5966.71	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5966.71	0.0	0.0	0.0	0.0	0.0
						160.0	5966.71	0.0	0.0	0.0	0.0	0.0
6	122	0.0	0.0	0.0	0.0	0.0	5349.46	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5349.46	0.0	0.0	0.0	0.0	0.0
						160.0	5349.46	0.0	0.0	0.0	0.0	0.0
6	135	0.0	0.0	0.0	0.0	0.0	5472.91	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5472.91	0.0	0.0	0.0	0.0	0.0
						160.0	5472.91	0.0	0.0	0.0	0.0	0.0
6	137	0.0	0.0	0.0	0.0	0.0	5349.46	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5349.46	0.0	0.0	0.0	0.0	0.0
						160.0	5349.46	0.0	0.0	0.0	0.0	0.0
6	140	0.0	0.0	0.0	0.0	0.0	5349.46	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5349.46	0.0	0.0	0.0	0.0	0.0
						160.0	5349.46	0.0	0.0	0.0	0.0	0.0
6	141	0.0	0.0	0.0	0.0	0.0	5349.46	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5349.46	0.0	0.0	0.0	0.0	0.0
						160.0	5349.46	0.0	0.0	0.0	0.0	0.0
7	8	0.0	0.0	0.0	0.0	0.0	-3729.96	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-3729.96	0.0	0.0	0.0	0.0	0.0
						200.0	-3729.96	0.0	0.0	0.0	0.0	0.0
7	25	0.0	0.0	0.0	0.0	0.0	-1937.72	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1937.72	0.0	0.0	0.0	0.0	0.0
						200.0	-1937.72	0.0	0.0	0.0	0.0	0.0
7	71	0.0	0.0	0.0	0.0	0.0	-2326.09	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2326.09	0.0	0.0	0.0	0.0	0.0
						200.0	-2326.09	0.0	0.0	0.0	0.0	0.0
7	74	0.0	0.0	0.0	0.0	0.0	-1663.20	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1663.20	0.0	0.0	0.0	0.0	0.0
						200.0	-1663.20	0.0	0.0	0.0	0.0	0.0
7	103	0.0	0.0	0.0	0.0	0.0	-2233.40	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2233.40	0.0	0.0	0.0	0.0	0.0
						200.0	-2233.40	0.0	0.0	0.0	0.0	0.0
7	106	0.0	0.0	0.0	0.0	0.0	-1755.89	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1755.89	0.0	0.0	0.0	0.0	0.0
						200.0	-1755.89	0.0	0.0	0.0	0.0	0.0
7	115	0.0	0.0	0.0	0.0	0.0	-2714.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2714.64	0.0	0.0	0.0	0.0	0.0
						200.0	-2714.64	0.0	0.0	0.0	0.0	0.0
7	122	0.0	0.0	0.0	0.0	0.0	-1994.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1994.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1994.64	0.0	0.0	0.0	0.0	0.0
7	135	0.0	0.0	0.0	0.0	0.0	-2138.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2138.64	0.0	0.0	0.0	0.0	0.0
						200.0	-2138.64	0.0	0.0	0.0	0.0	0.0
7	137	0.0	0.0	0.0	0.0	0.0	-1994.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1994.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1994.64	0.0	0.0	0.0	0.0	0.0
7	140	0.0	0.0	0.0	0.0	0.0	-1994.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1994.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1994.64	0.0	0.0	0.0	0.0	0.0
7	141	0.0	0.0	0.0	0.0	0.0	-1994.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1994.64	0.0	0.0	0.0	0.0	0.0
						200.0	-1994.64	0.0	0.0	0.0	0.0	0.0
8	13	0.0	0.0	0.0	0.0	0.0	4987.06	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	4987.06	0.0	0.0	0.0	0.0	0.0
						160.0	4987.06	0.0	0.0	0.0	0.0	0.0
8	18	0.0	0.0	0.0	0.0	0.0	8182.06	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	8182.06	0.0	0.0	0.0	0.0	0.0
						160.0	8182.06	0.0	0.0	0.0	0.0	0.0
8	76	0.0	0.0	0.0	0.0	0.0	5191.61	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5191.61	0.0	0.0	0.0	0.0	0.0
						160.0	5191.61	0.0	0.0	0.0	0.0	0.0



Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
8	77	0.0	0.0	0.0	0.0	0.0	5458.38	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5458.38	0.0	0.0	0.0	0.0	0.0
						160.0	5458.38	0.0	0.0	0.0	0.0	0.0
8	108	0.0	0.0	0.0	0.0	0.0	5225.90	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5225.90	0.0	0.0	0.0	0.0	0.0
						160.0	5225.90	0.0	0.0	0.0	0.0	0.0
8	109	0.0	0.0	0.0	0.0	0.0	5424.09	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5424.09	0.0	0.0	0.0	0.0	0.0
						160.0	5424.09	0.0	0.0	0.0	0.0	0.0
8	116	0.0	0.0	0.0	0.0	0.0	5324.99	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5324.99	0.0	0.0	0.0	0.0	0.0
						160.0	5324.99	0.0	0.0	0.0	0.0	0.0
8	120	0.0	0.0	0.0	0.0	0.0	5939.42	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5939.42	0.0	0.0	0.0	0.0	0.0
						160.0	5939.42	0.0	0.0	0.0	0.0	0.0
8	135	0.0	0.0	0.0	0.0	0.0	5447.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5447.88	0.0	0.0	0.0	0.0	0.0
						160.0	5447.88	0.0	0.0	0.0	0.0	0.0
8	136	0.0	0.0	0.0	0.0	0.0	5324.99	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5324.99	0.0	0.0	0.0	0.0	0.0
						160.0	5324.99	0.0	0.0	0.0	0.0	0.0
8	140	0.0	0.0	0.0	0.0	0.0	5324.99	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5324.99	0.0	0.0	0.0	0.0	0.0
						160.0	5324.99	0.0	0.0	0.0	0.0	0.0
8	141	0.0	0.0	0.0	0.0	0.0	5324.99	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	80.0	5324.99	0.0	0.0	0.0	0.0	0.0
						160.0	5324.99	0.0	0.0	0.0	0.0	0.0
9	8	0.0	0.0	0.0	0.0	0.0	-3729.96	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-3729.96	0.0	0.0	0.0	0.0	0.0
						200.0	-3729.96	0.0	0.0	0.0	0.0	0.0
9	25	0.0	0.0	0.0	0.0	0.0	-1937.72	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-1937.72	0.0	0.0	0.0	0.0	0.0
						200.0	-1937.72	0.0	0.0	0.0	0.0	0.0
9	71	0.0	0.0	0.0	0.0	0.0	-2347.78	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	100.0	-2347.78	0.0	0.0	0.0	0.0	0.0
						200.0	-2347.78	0.0	0.0	0.0	0.0	0.0
9	74	0.0	0.0	0.0	0.0	0.0	-1641.50	0.0	0.0	0.0	0.0	0.0
...												
543	141	-6741.15	-1.152e+05	-7.21e-03	0.0	40.0	-5.926e+04	190.97	-1459.16	-9617.89	-1.152e+05	627.18
Pilas.		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T		
		-8.722e+05	-3.203e+05	-0.25	0.0		-9.332e+04	-5758.51	-2240.05	-1.923e+05		
		9.156e+05	4.266e+04	0.18	0.0		8587.86	5618.50	3180.33	1.760e+05		

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
29	27	1034.66	0.0	0.0	-16.11	0.0	1.71	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-1.29e-03	0.0	0.0	0.0	0.0	1034.66
						513.7	-1.71	-8.06	0.0	0.0	0.0	0.0
29	44	1034.66	0.0	0.0	-16.11	0.0	1.71	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-4.67e-03	0.0	0.0	0.0	0.0	1034.66
						513.7	-1.71	-8.06	0.0	0.0	0.0	0.0
29	53	795.90	0.0	0.0	-12.39	0.0	2252.56	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	2251.24	0.0	0.0	0.0	0.0	795.90
						513.7	2249.93	-6.20	0.0	0.0	0.0	0.0
29	76	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-4.94e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
29	85	795.90	0.0	0.0	-12.39	0.0	1556.35	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	1555.04	0.0	0.0	0.0	0.0	795.90
						513.7	1553.72	-6.20	0.0	0.0	0.0	0.0
29	96	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.00e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
29	117	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-3.33e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
29	124	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-1.26e-03	0.0	0.0	0.0	0.0	795.90



Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
29	137	795.90	0.0	0.0	-12.39	513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-1.27e-03	6.20	0.0	0.0	0.0	0.0
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
29	138	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-3.42e-03	0.0	0.0	0.0	0.0	0.0
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
29	140	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-3.16e-03	0.0	0.0	0.0	0.0	0.0
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
29	141	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-3.16e-03	0.0	0.0	0.0	0.0	0.0
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
30	12	1034.66	0.0	0.0	-16.11	0.0	572.22	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	573.93	0.0	0.0	0.0	0.0	0.0
						513.7	575.64	-8.06	0.0	0.0	0.0	0.0
30	23	1034.66	0.0	0.0	-16.11	0.0	-1.71	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-3.52e-03	0.0	0.0	0.0	0.0	0.0
						513.7	1.71	-8.06	0.0	0.0	0.0	0.0
30	52	795.90	0.0	0.0	-12.39	0.0	1565.14	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	1566.46	0.0	0.0	0.0	0.0	0.0
						513.7	1567.78	-6.20	0.0	0.0	0.0	0.0
30	57	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.39e-03	0.0	0.0	0.0	0.0	0.0
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
30	82	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-4.93e-03	0.0	0.0	0.0	0.0	0.0
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
30	84	795.90	0.0	0.0	-12.39	0.0	1185.01	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	1186.32	0.0	0.0	0.0	0.0	0.0
						513.7	1187.64	-6.20	0.0	0.0	0.0	0.0
30	117	795.90	0.0	0.0	-12.39	0.0	406.79	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	408.11	0.0	0.0	0.0	0.0	0.0
						513.7	409.43	-6.20	0.0	0.0	0.0	0.0
30	122	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-4.98e-03	0.0	0.0	0.0	0.0	0.0
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
30	136	795.90	0.0	0.0	-12.39	0.0	236.48	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	237.79	0.0	0.0	0.0	0.0	0.0
						513.7	239.11	-6.20	0.0	0.0	0.0	0.0
30	137	795.90	0.0	0.0	-12.39	0.0	146.05	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	147.37	0.0	0.0	0.0	0.0	0.0
						513.7	148.68	-6.20	0.0	0.0	0.0	0.0
30	140	795.90	0.0	0.0	-12.39	0.0	192.80	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	194.12	0.0	0.0	0.0	0.0	0.0
						513.7	195.43	-6.20	0.0	0.0	0.0	0.0
30	141	795.90	0.0	0.0	-12.39	0.0	192.80	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	194.12	0.0	0.0	0.0	0.0	0.0
						513.7	195.43	-6.20	0.0	0.0	0.0	0.0
31	8	1034.66	0.0	0.0	-16.11	0.0	1.70	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.30e-03	0.0	0.0	0.0	0.0	0.0
						513.7	-1.72	-8.06	0.0	0.0	0.0	0.0
31	25	795.90	0.0	0.0	-12.39	0.0	146.12	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	144.81	0.0	0.0	0.0	0.0	0.0
						513.7	143.49	-6.20	0.0	0.0	0.0	0.0
31	53	795.90	0.0	0.0	-12.39	0.0	1228.59	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	1227.28	0.0	0.0	0.0	0.0	0.0
						513.7	1225.96	-6.20	0.0	0.0	0.0	0.0
31	76	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.52e-03	0.0	0.0	0.0	0.0	0.0
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
31	85	795.90	0.0	0.0	-12.39	0.0	834.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	833.01	0.0	0.0	0.0	0.0	0.0
						513.7	831.69	-6.20	0.0	0.0	0.0	0.0
31	102	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.20e-03	0.0	0.0	0.0	0.0	0.0
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
31	116	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.03e-03	0.0	0.0	0.0	0.0	0.0
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
31	122	795.90	0.0	0.0	-12.39	0.0	33.60	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	32.29	0.0	0.0	0.0	0.0	795.90
						513.7	30.97	-6.20	0.0	0.0	0.0	0.0
31	135	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-1.77e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
31	137	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.07e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
31	140	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-3.31e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
31	141	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-3.31e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
32	12	996.46	0.0	0.0	-15.80	0.0	518.00	7.90	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	519.71	0.0	0.0	0.0	0.0	996.46
						504.4	521.42	-7.90	0.0	0.0	0.0	0.0
32	18	996.46	0.0	0.0	-15.80	0.0	-1.71	7.90	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-2.43e-03	0.0	0.0	0.0	0.0	996.46
						504.4	1.71	-7.90	0.0	0.0	0.0	0.0
32	52	766.51	0.0	0.0	-12.16	0.0	1540.16	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	1541.48	0.0	0.0	0.0	0.0	766.51
						504.4	1542.79	-6.08	0.0	0.0	0.0	0.0
32	77	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.70e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
32	84	766.51	0.0	0.0	-12.16	0.0	1154.46	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	1155.78	0.0	0.0	0.0	0.0	766.51
						504.4	1157.09	-6.08	0.0	0.0	0.0	0.0
32	94	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.58e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
32	117	766.51	0.0	0.0	-12.16	0.0	364.35	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	365.67	0.0	0.0	0.0	0.0	766.51
						504.4	366.98	-6.08	0.0	0.0	0.0	0.0
32	123	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-2.43e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
32	136	766.51	0.0	0.0	-12.16	0.0	193.22	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	194.54	0.0	0.0	0.0	0.0	766.51
						504.4	195.85	-6.08	0.0	0.0	0.0	0.0
32	137	766.51	0.0	0.0	-12.16	0.0	102.66	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	103.98	0.0	0.0	0.0	0.0	766.51
						504.4	105.29	-6.08	0.0	0.0	0.0	0.0
32	140	766.51	0.0	0.0	-12.16	0.0	148.33	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	149.65	0.0	0.0	0.0	0.0	766.51
						504.4	150.96	-6.08	0.0	0.0	0.0	0.0
32	141	766.51	0.0	0.0	-12.16	0.0	148.33	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	149.65	0.0	0.0	0.0	0.0	766.51
						504.4	150.96	-6.08	0.0	0.0	0.0	0.0
33	2	996.46	0.0	0.0	-15.80	0.0	1.70	7.90	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.38e-03	0.0	0.0	0.0	0.0	996.46
						504.4	-1.72	-7.90	0.0	0.0	0.0	0.0
33	25	766.51	0.0	0.0	-12.16	0.0	258.70	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	257.39	0.0	0.0	0.0	0.0	766.51
						504.4	256.07	-6.08	0.0	0.0	0.0	0.0
33	50	766.51	0.0	0.0	-12.16	0.0	1210.81	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	1209.49	0.0	0.0	0.0	0.0	766.51
						504.4	1208.18	-6.08	0.0	0.0	0.0	0.0
33	64	766.51	0.0	0.0	-12.16	0.0	1.31	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.63e-03	0.0	0.0	0.0	0.0	766.51
						504.4	-1.32	-6.08	0.0	0.0	0.0	0.0
33	82	766.51	0.0	0.0	-12.16	0.0	856.84	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	855.52	0.0	0.0	0.0	0.0	766.51
						504.4	854.21	-6.08	0.0	0.0	0.0	0.0
33	100	766.51	0.0	0.0	-12.16	0.0	1.31	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.62e-03	0.0	0.0	0.0	0.0	766.51
						504.4	-1.32	-6.08	0.0	0.0	0.0	0.0
33	122	766.51	0.0	0.0	-12.16	0.0	146.93	6.08	0.0	0.0	0.0	0.0

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		0.0	0.0	0.0	0.0	252.2	145.62	0.0	0.0	0.0	0.0	766.51
						504.4	144.30	-6.08	0.0	0.0	0.0	0.0
33	126	766.51	0.0	0.0	-12.16	0.0	1.31	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.51e-03	0.0	0.0	0.0	0.0	766.51
						504.4	-1.32	-6.08	0.0	0.0	0.0	0.0
33	134	766.51	0.0	0.0	-12.16	0.0	1.31	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-2.00e-03	0.0	0.0	0.0	0.0	766.51
						504.4	-1.32	-6.08	0.0	0.0	0.0	0.0
33	135	766.51	0.0	0.0	-12.16	0.0	1.31	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.17e-03	0.0	0.0	0.0	0.0	766.51
						504.4	-1.32	-6.08	0.0	0.0	0.0	0.0
33	140	766.51	0.0	0.0	-12.16	0.0	1.31	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-2.00e-03	0.0	0.0	0.0	0.0	766.51
						504.4	-1.32	-6.08	0.0	0.0	0.0	0.0
33	141	766.51	0.0	0.0	-12.16	0.0	1.31	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-2.00e-03	0.0	0.0	0.0	0.0	766.51
						504.4	-1.32	-6.08	0.0	0.0	0.0	0.0
34	13	766.51	0.0	0.0	-12.16	0.0	280.74	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	282.05	0.0	0.0	0.0	0.0	766.51
						504.4	283.37	-6.08	0.0	0.0	0.0	0.0
34	41	996.46	0.0	0.0	-15.80	0.0	-1.71	7.90	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-4.99e-03	0.0	0.0	0.0	0.0	996.46
						504.4	1.70	-7.90	0.0	0.0	0.0	0.0
34	51	766.51	0.0	0.0	-12.16	0.0	1315.16	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	1316.48	0.0	0.0	0.0	0.0	766.51
						504.4	1317.79	-6.08	0.0	0.0	0.0	0.0
34	76	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.68e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
34	83	766.51	0.0	0.0	-12.16	0.0	940.61	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	941.93	0.0	0.0	0.0	0.0	766.51
						504.4	943.24	-6.08	0.0	0.0	0.0	0.0
34	93	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.74e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
34	116	766.51	0.0	0.0	-12.16	0.0	178.35	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	179.67	0.0	0.0	0.0	0.0	766.51
						504.4	180.98	-6.08	0.0	0.0	0.0	0.0
34	120	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.33e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
34	134	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.22e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
34	136	766.51	0.0	0.0	-12.16	0.0	12.69	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	14.01	0.0	0.0	0.0	0.0	766.51
						504.4	15.32	-6.08	0.0	0.0	0.0	0.0
34	140	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.22e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
34	141	766.51	0.0	0.0	-12.16	0.0	-1.32	6.08	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	252.2	-5.22e-03	0.0	0.0	0.0	0.0	766.51
						504.4	1.31	-6.08	0.0	0.0	0.0	0.0
35	24	1034.66	0.0	0.0	-16.11	0.0	423.30	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	421.59	0.0	0.0	0.0	0.0	1034.66
						513.7	419.88	-8.06	0.0	0.0	0.0	0.0
35	28	1034.66	0.0	0.0	-16.11	0.0	1.70	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.47e-03	0.0	0.0	0.0	0.0	1034.66
						513.7	-1.72	-8.06	0.0	0.0	0.0	0.0
35	54	795.90	0.0	0.0	-12.39	0.0	1456.70	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	1455.38	0.0	0.0	0.0	0.0	795.90
						513.7	1454.07	-6.20	0.0	0.0	0.0	0.0
35	69	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.42e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
35	86	795.90	0.0	0.0	-12.39	0.0	1079.97	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	1078.66	0.0	0.0	0.0	0.0	795.90
						513.7	1077.34	-6.20	0.0	0.0	0.0	0.0
35	87	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.42e-03	0.0	0.0	0.0	0.0	795.90

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
35	123	795.90	0.0	0.0	-12.39	513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	294.23	6.20	0.0	0.0	0.0	0.0
						513.7	292.91	0.0	0.0	0.0	0.0	795.90
						513.7	291.60	-6.20	0.0	0.0	0.0	0.0
35	124	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-4.59e-03	0.0	0.0	0.0	0.0	795.90
						513.7	-1.32	-6.20	0.0	0.0	0.0	0.0
35	136	795.90	0.0	0.0	-12.39	0.0	26.41	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	25.09	0.0	0.0	0.0	0.0	795.90
						513.7	23.78	-6.20	0.0	0.0	0.0	0.0
35	137	795.90	0.0	0.0	-12.39	0.0	117.47	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	116.16	0.0	0.0	0.0	0.0	795.90
						513.7	114.84	-6.20	0.0	0.0	0.0	0.0
35	140	795.90	0.0	0.0	-12.39	0.0	76.00	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	74.69	0.0	0.0	0.0	0.0	795.90
						513.7	73.37	-6.20	0.0	0.0	0.0	0.0
35	141	795.90	0.0	0.0	-12.39	0.0	76.00	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	74.69	0.0	0.0	0.0	0.0	795.90
						513.7	73.37	-6.20	0.0	0.0	0.0	0.0
36	17	1034.66	0.0	0.0	-16.11	0.0	-1.71	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.01e-03	0.0	0.0	0.0	0.0	1034.66
						513.7	1.70	-8.06	0.0	0.0	0.0	0.0
36	35	795.90	0.0	0.0	-12.39	0.0	170.62	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	171.94	0.0	0.0	0.0	0.0	795.90
						513.7	173.25	-6.20	0.0	0.0	0.0	0.0
36	51	795.90	0.0	0.0	-12.39	0.0	2486.21	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	2487.53	0.0	0.0	0.0	0.0	795.90
						513.7	2488.85	-6.20	0.0	0.0	0.0	0.0
36	62	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.05e-03	0.0	0.0	0.0	0.0	795.90
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
36	83	795.90	0.0	0.0	-12.39	0.0	1784.47	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	1785.79	0.0	0.0	0.0	0.0	795.90
						513.7	1787.10	-6.20	0.0	0.0	0.0	0.0
36	97	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-5.01e-03	0.0	0.0	0.0	0.0	795.90
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
36	112	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-4.66e-03	0.0	0.0	0.0	0.0	795.90
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
36	127	795.90	0.0	0.0	-12.39	0.0	103.42	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	104.74	0.0	0.0	0.0	0.0	795.90
						513.7	106.05	-6.20	0.0	0.0	0.0	0.0
36	137	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-1.22e-03	0.0	0.0	0.0	0.0	795.90
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
36	139	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-4.98e-03	0.0	0.0	0.0	0.0	795.90
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
36	140	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-2.85e-03	0.0	0.0	0.0	0.0	795.90
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
36	141	795.90	0.0	0.0	-12.39	0.0	-1.32	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-2.85e-03	0.0	0.0	0.0	0.0	795.90
						513.7	1.31	-6.20	0.0	0.0	0.0	0.0
37	2	1034.67	0.0	0.0	-16.11	0.0	1.71	8.06	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	-2.84e-03	0.0	0.0	0.0	0.0	1034.67
						513.7	-1.71	-8.06	0.0	0.0	0.0	0.0
37	14	795.90	0.0	0.0	-12.39	0.0	107.38	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	106.06	0.0	0.0	0.0	0.0	795.90
						513.7	104.74	-6.20	0.0	0.0	0.0	0.0
37	58	795.90	0.0	0.0	-12.39	0.0	1070.90	6.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	256.9	1069.58	0.0	0.0	0.0	0.0	795.90
						513.7	1068.27	-6.20	0.0	0.0	0.0	0.0
37	67	795.90	0.0	0.0	-12.39	0.0	1.31	6.20	0.0	0.0	0.0	0.0
...												
545	141	-1.068e+04	-4.08	9.31e-04	0.0	380.0	5.82	-269.96	0.03	-6387.23	5.97	-1.068e+04
Trave		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T		
		-7.415e+05	-2.065e+06	-1.254e+06	-9791.19		-7142.33	-1.298e+05	-3763.72	-6.182e+04		
		6.461e+07	2.065e+06	2.55	134.06		6618.30	1.298e+05	3763.72	4.654e+04		

Trave f.	Cmb	M3 mx/mn daN cm	M2 mx/mn daN cm	D 2 / D 3 cm	Pt daN/cm2	Pos. cm	N daN	V 2 daN	V 3 daN	T daN cm	M 2 daN cm	M 3 daN cm
359	8	9.287e+05 3.548e+05	2.392e+04 -1.513e+04	0.02 -1.70e-04	-1.43	0.0 50.0 100.0	-1630.62 -1630.62 -1630.62	-6715.33 -5726.21 -4814.74	-390.46 -390.46 -390.46	-1.284e+04 -1.308e+04 -1.332e+04	2.392e+04 4394.34 -1.513e+04	9.287e+05 6.180e+05 3.548e+05
359	12	8.685e+05 3.643e+05	2.591e+04 -1.391e+04	0.02 -3.64e-04	-1.38	0.0 50.0 100.0	-1538.84 -1538.84 -1538.84	-5873.61 -4916.65 -4252.47	-398.23 -398.23 -398.23	-1.364e+04 -1.386e+04 -1.409e+04	2.591e+04 6002.50 -1.391e+04	8.685e+05 5.961e+05 3.643e+05
359	18	8.344e+05 2.707e+05	1.876e+04 -1.650e+04	0.02 3.21e-04	-1.43	0.0 50.0 100.0	-1734.47 -1734.47 -1734.47	-6633.79 -5623.41 -4697.22	-352.60 -352.60 -352.60	-1.021e+04 -1.046e+04 -1.071e+04	1.876e+04 1129.27 -1.650e+04	8.344e+05 5.283e+05 2.707e+05
359	25	5.757e+05 1.595e+05	1.156e+04 -1.137e+04	0.02 4.27e-04	-0.98	0.0 50.0 100.0	-1360.25 -1360.25 -1360.25	-4916.76 -4150.97 -3451.46	-229.33 -229.33 -229.33	-6400.13 -6552.88 -6707.85	1.156e+04 92.13 -1.137e+04	5.757e+05 3.493e+05 1.595e+05
359	45	6.283e+05 2.096e+05	9832.21 -9634.53	0.02 8.83e-05	-0.98	0.0 50.0 100.0	-1122.27 -1122.27 -1122.27	-4923.74 -4176.61 -3491.37	-194.67 -194.67 -194.67	-9046.92 -9170.31 -9296.80	9832.21 98.84 -9634.53	6.283e+05 4.010e+05 2.096e+05
359	56	5.749e+05 2.148e+05	-4511.22 -3.769e+04	-0.03 1.29e-03	-1.02	0.0 50.0 100.0	329.10 329.10 329.10	-4068.36 -3461.82 -2903.53	329.93 329.93 329.93	-1.983e+04 -1.993e+04 -2.003e+04	-3.769e+04 -2.110e+04 -4511.22	5.749e+05 3.788e+05 2.148e+05
359	57	5.560e+05 1.875e+05	6.624e+04 -1.730e+04	0.03 -1.13e-03	-1.00	0.0 50.0 100.0	-2499.57 -2499.57 -2499.57	-4480.51 -3806.39 -3187.76	-833.57 -833.57 -833.57	2510.24 2292.02 2074.31	6.624e+04 2.447e+04 -1.730e+04	5.560e+05 3.571e+05 1.875e+05
359	60	5.837e+05 2.226e+05	-4139.60 -4.141e+04	-0.03 1.51e-03	-1.02	0.0 50.0 100.0	285.00 285.00 285.00	-4059.38 -3450.99 -2891.38	371.08 371.08 371.08	-1.997e+04 -2.008e+04 -2.021e+04	-4.141e+04 -2.278e+04 -4139.60	5.837e+05 3.872e+05 2.226e+05
359	61	5.470e+05 1.796e+05	6.997e+04 -1.767e+04	0.03 -1.34e-03	-1.00	0.0 50.0 100.0	-2454.65 -2454.65 -2454.65	-4489.19 -3816.90 -3199.56	-874.76 -874.76 -874.76	2650.47 2455.59 2261.31	6.997e+04 2.615e+04 -1.767e+04	5.470e+05 3.485e+05 1.796e+05
359	63	6.846e+05 2.774e+05	2.345e+04 -1.186e+04	-0.02 1.07e-03	-1.04	0.0 50.0 100.0	-1032.76 -1032.76 -1032.76	-3641.28 -3079.25 -2564.31	-352.74 -352.74 -352.74	-1.661e+04 -1.673e+04 -1.687e+04	2.345e+04 5795.55 -1.186e+04	6.846e+05 4.637e+05 2.774e+05
359	66	4.427e+05 1.226e+05	2666.38 -9809.98	0.02 -9.00e-04	-0.99	0.0 50.0 100.0	-1106.79 -1106.79 -1106.79	-4893.26 -4176.24 -3515.82	-125.06 -125.06 -125.06	-1503.42 -1684.51 -1865.01	2666.38 -3571.80 -9809.98	4.427e+05 2.692e+05 1.226e+05
359	88	5.732e+05 2.119e+05	-6255.93 -2.330e+04	-0.02 9.43e-04	-1.02	0.0 50.0 100.0	-66.16 -66.16 -66.16	-4128.28 -3512.20 -2945.33	169.10 169.10 169.10	-1.672e+04 -1.683e+04 -1.695e+04	-2.330e+04 -1.478e+04 -6255.93	5.732e+05 3.767e+05 2.119e+05
359	89	5.593e+05 1.919e+05	5.166e+04 -1.548e+04	0.03 -7.76e-04	-1.01	0.0 50.0 100.0	-2111.31 -2111.31 -2111.31	-4422.72 -3758.48 -3148.65	-670.06 -670.06 -670.06	-664.14 -865.09 -1066.49	5.166e+04 1.809e+04 -1.548e+04	5.593e+05 3.607e+05 1.919e+05
359	92	5.802e+05 2.179e+05	-5993.83 -2.591e+04	-0.02 1.11e-03	-1.02	0.0 50.0 100.0	-98.18 -98.18 -98.18	-4119.79 -3502.59 -2934.97	197.98 197.98 197.98	-1.683e+04 -1.696e+04 -1.709e+04	-2.591e+04 -1.595e+04 -5993.83	5.802e+05 3.833e+05 2.179e+05
359	93	5.522e+05 1.857e+05	5.427e+04 -1.575e+04	0.03 -9.40e-04	-1.01	0.0 50.0 100.0	-2078.66 -2078.66 -2078.66	-4430.99 -3767.86 -3158.75	-698.94 -698.94 -698.94	-547.72 -732.43 -917.56	5.427e+04 1.926e+04 -1.575e+04	5.522e+05 3.540e+05 1.857e+05
359	95	6.561e+05 2.595e+05	2.090e+04 -1.156e+04	-0.02 8.26e-04	-1.03	0.0 50.0 100.0	-1052.04 -1052.04 -1052.04	-3803.95 -3221.85 -2688.04	-324.42 -324.42 -324.42	-1.444e+04 -1.457e+04 -1.472e+04	2.090e+04 4672.68 -1.156e+04	6.561e+05 4.410e+05 2.595e+05
359	98	4.740e+05 1.426e+05	5796.30 -1.008e+04	0.02 -6.59e-04	-0.99	0.0 50.0 100.0	-1104.65 -1104.65 -1104.65	-4737.37 -4040.20 -3398.36	-159.03 -159.03 -159.03	-3471.22 -3645.51 -3820.26	5796.30 -2143.91 -1.008e+04	4.740e+05 2.944e+05 1.426e+05
359	115	7.394e+05 2.706e+05	1.750e+04 -1.124e+04	0.02 -1.01e-04	-1.06	0.0 50.0 100.0	-1262.06 -1262.06 -1262.06	-5495.42 -4677.45 -3924.92	-287.33 -287.33 -287.33	-9673.33 -9841.90 -1.001e+04	1.750e+04 3131.04 -1.124e+04	7.394e+05 4.854e+05 2.706e+05
359	117	6.993e+05 2.770e+05	1.883e+04 -1.042e+04	0.01 -2.30e-04	-1.03	0.0 50.0 100.0	-1200.90 -1200.90 -1200.90	-4934.29 -4214.42 -3550.10	-292.53 -292.53 -292.53	-1.021e+04 -1.037e+04 -1.053e+04	1.883e+04 4204.04 -1.042e+04	6.993e+05 4.708e+05 2.770e+05
359	120	6.765e+05 2.145e+05	1.404e+04 -1.215e+04	0.02 2.26e-04	-1.07	0.0 50.0 100.0	-1330.69 -1330.69 -1330.69	-5440.83 -4608.69 -3846.37	-261.88 -261.88 -261.88	-7927.20 -8104.80 -8285.14	1.404e+04 943.38 -1.215e+04	6.765e+05 4.255e+05 2.145e+05
359	122	5.289e+05 1.674e+05	1.274e+04 -1.147e+04	0.01 3.11e-04	-1.01	0.0 50.0 100.0	-1245.67 -1245.67 -1245.67	-4256.44 -3605.85 -3009.87	-242.13 -242.13 -242.13	-7208.55 -7373.24 -7540.42	1.274e+04 636.24 -1.147e+04	5.289e+05 3.325e+05 1.674e+05
359	132	5.641e+05	1.162e+04	0.01	-1.01	0.0	-1087.52	-4261.34	-219.34	-8967.25	1.162e+04	5.641e+05

Trave f.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Pt	Pos.	N	V 2	V 3	T	M 2	M 3
		2.009e+05	-1.031e+04	8.51e-05		50.0	-1087.52	-3623.19	-219.34	-9112.40	656.69	3.672e+05
						100.0	-1087.52	-3036.72	-219.34	-9260.62	-1.031e+04	2.009e+05
359	135	5.949e+05	1.424e+04	0.01	-1.02	0.0	-1128.33	-4514.16	-252.24	-8731.17	1.424e+04	5.949e+05
		2.103e+05	-1.098e+04	8.32e-05		50.0	-1128.33	-3837.11	-252.24	-8890.84	1627.13	3.863e+05
						100.0	-1128.33	-3215.01	-252.24	-9053.52	-1.098e+04	2.103e+05
359	136	5.817e+05	1.500e+04	0.01	-1.01	0.0	-1106.45	-4292.98	-256.19	-8986.27	1.500e+04	5.817e+05
		2.153e+05	-1.062e+04	1.88e-05		50.0	-1106.45	-3655.68	-256.19	-9141.36	2186.80	3.832e+05
						100.0	-1106.45	-3069.18	-256.19	-9299.54	-1.062e+04	2.153e+05
359	137	5.606e+05	1.382e+04	0.01	-1.01	0.0	-1128.57	-4274.48	-247.44	-8413.29	1.382e+04	5.606e+05
		1.965e+05	-1.093e+04	1.28e-04		50.0	-1128.57	-3632.47	-247.44	-8571.34	1443.71	3.631e+05
						100.0	-1128.57	-3042.72	-247.44	-8732.28	-1.093e+04	1.965e+05
359	139	5.677e+05	1.360e+04	0.01	-1.01	0.0	-1097.27	-4275.57	-242.97	-8759.30	1.360e+04	5.677e+05
		2.032e+05	-1.070e+04	8.26e-05		50.0	-1097.27	-3636.03	-242.97	-8913.47	1450.86	3.701e+05
						100.0	-1097.27	-3048.17	-242.97	-9070.65	-1.070e+04	2.032e+05
359	140	5.685e+05	1.409e+04	0.01	-1.01	0.0	-1099.57	-4279.07	-248.81	-8708.81	1.409e+04	5.685e+05
		2.037e+05	-1.079e+04	8.20e-05		50.0	-1099.57	-3639.19	-248.81	-8865.23	1646.46	3.708e+05
						100.0	-1099.57	-3050.98	-248.81	-9024.64	-1.079e+04	2.037e+05
359	141	5.685e+05	1.409e+04	0.01	-1.01	0.0	-1099.57	-4279.07	-248.81	-8708.81	1.409e+04	5.685e+05
		2.037e+05	-1.079e+04	8.20e-05		50.0	-1099.57	-3639.19	-248.81	-8865.23	1646.46	3.708e+05
						100.0	-1099.57	-3050.98	-248.81	-9024.64	-1.079e+04	2.037e+05
360	8	6.445e+05	7.240e+04	-0.02	-1.34	0.0	599.03	-6007.67	-816.85	-4.335e+04	7.240e+04	6.445e+05
		1.385e+05	-9281.42	-1.31e-04		50.0	599.03	-5045.16	-816.85	-4.321e+04	3.156e+04	3.685e+05
						100.0	599.03	-4173.54	-816.85	-4.308e+04	-9281.42	1.385e+05
360	24	5.579e+05	8.599e+04	-0.02	-1.32	0.0	516.23	-5473.94	-957.64	-3.675e+04	8.599e+04	5.579e+05
		9.786e+04	-9778.19	3.76e-04		50.0	516.23	-4586.09	-957.64	-3.664e+04	3.810e+04	3.067e+05
						100.0	516.23	-3783.32	-957.64	-3.655e+04	-9778.19	9.786e+04
360	25	4.271e+05	6.215e+04	-0.02	-0.93	0.0	299.89	-4487.69	-689.84	-2.501e+04	6.215e+04	4.271e+05
		5.125e+04	-6831.62	3.58e-04		50.0	299.89	-3746.49	-689.84	-2.493e+04	2.766e+04	2.215e+05
						100.0	299.89	-3077.50	-689.84	-2.485e+04	-6831.62	5.125e+04
360	26	4.873e+05	6.549e+04	-0.02	-0.97	0.0	332.20	-5224.07	-727.53	-2.643e+04	6.549e+04	4.873e+05
		5.021e+04	-7258.70	3.59e-04		50.0	332.20	-4356.61	-727.53	-2.634e+04	2.912e+04	2.481e+05
						100.0	332.20	-3573.92	-727.53	-2.626e+04	-7258.70	5.021e+04
360	28	6.342e+05	8.105e+04	-0.03	-1.35	0.0	597.02	-6109.81	-911.12	-4.226e+04	8.105e+04	6.342e+05
		1.204e+05	-1.006e+04	1.18e-04		50.0	597.02	-5122.23	-911.12	-4.213e+04	3.550e+04	3.538e+05
						100.0	597.02	-4228.80	-911.12	-4.202e+04	-1.006e+04	1.204e+05
360	38	6.269e+05	7.807e+04	-0.02	-1.35	0.0	622.12	-6050.24	-873.44	-4.080e+04	7.807e+04	6.269e+05
		1.182e+05	-9271.01	1.16e-04		50.0	622.12	-5071.74	-873.44	-4.067e+04	3.440e+04	3.492e+05
						100.0	622.12	-4186.58	-873.44	-4.056e+04	-9271.01	1.182e+05
360	50	3.837e+05	1.127e+05	0.05	-0.92	0.0	368.36	-4608.82	-1215.61	-1.144e+04	1.127e+05	3.837e+05
		4.391e+04	-8850.56	-1.40e-03		50.0	368.36	-3848.26	-1215.61	-1.143e+04	5.193e+04	2.063e+05
						100.0	368.36	-3160.91	-1215.61	-1.142e+04	-8850.56	4.391e+04
360	60	4.116e+05	-2639.91	-0.05	-0.97	0.0	494.65	-3424.11	213.63	-4.401e+04	-2.408e+04	4.116e+05
		1.147e+05	-2.408e+04	1.73e-03		50.0	494.65	-2892.69	213.63	-4.382e+04	-1.336e+04	2.413e+05
						100.0	494.65	-2410.99	213.63	-4.365e+04	-2639.91	1.147e+05
360	61	4.126e+05	1.326e+05	0.06	-0.94	0.0	291.52	-4365.48	-1430.70	-1.413e+04	1.326e+05	4.126e+05
		5.368e+04	-1.050e+04	-1.56e-03		50.0	291.52	-3644.58	-1430.70	-1.412e+04	6.107e+04	2.252e+05
						100.0	291.52	-2993.04	-1430.70	-1.412e+04	-1.050e+04	5.368e+04
360	64	3.731e+05	1.331e+04	-0.02	-0.94	0.0	611.99	-4153.01	-168.90	-2.652e+04	1.331e+04	3.731e+05
		7.504e+04	-3324.50	-1.95e-04		50.0	611.99	-3488.96	-168.90	-2.643e+04	4991.76	2.111e+05
						100.0	611.99	-2888.00	-168.90	-2.635e+04	-3324.50	7.504e+04
360	65	4.518e+05	9.511e+04	0.03	-0.97	0.0	170.80	-3636.20	-1046.63	-3.166e+04	9.511e+04	4.518e+05
		9.411e+04	-9810.29	3.72e-04		50.0	170.80	-3048.35	-1046.63	-3.156e+04	4.265e+04	2.561e+05
						100.0	170.80	-2516.40	-1046.63	-3.146e+04	-9810.29	9.411e+04
360	71	4.637e+05	6.301e+04	-0.03	-0.98	0.0	335.95	-3214.10	-720.14	-3.814e+04	6.301e+04	4.637e+05
		1.056e+05	-8998.81	4.08e-04		50.0	335.95	-2705.08	-720.14	-3.803e+04	2.701e+04	2.651e+05
						100.0	335.95	-2244.26	-720.14	-3.793e+04	-8998.81	1.056e+05
360	82	3.915e+05	9.634e+04	0.04	-0.93	0.0	374.09	-4411.58	-1045.54	-1.640e+04	9.634e+04	3.915e+05
		5.513e+04	-8215.91	-9.92e-04		50.0	374.09	-3688.22	-1045.54	-1.637e+04	4.406e+04	2.138e+05
						100.0	374.09	-3034.29	-1045.54	-1.633e+04	-8215.91	5.513e+04
360	93	4.125e+05	1.106e+05	0.05	-0.94	0.0	318.52	-4233.28	-1199.04	-1.832e+04	1.106e+05	4.125e+05
		6.243e+04	-9391.21	-1.09e-03		50.0	318.52	-3539.07	-1199.04	-1.828e+04	5.059e+04	2.276e+05
						100.0	318.52	-2911.44	-1199.04	-1.825e+04	-9391.21	6.243e+04
360	96	3.837e+05	2.492e+04	-0.02	-0.94	0.0	550.71	-4086.41	-293.64	-2.727e+04	2.492e+04	3.837e+05
		7.755e+04	-4252.53	-1.49e-04		50.0	550.71	-3432.06	-293.64	-2.718e+04	1.034e+04	2.172e+05
						100.0	550.71	-2839.89	-293.64	-2.710e+04	-4252.53	7.755e+04
360	97	4.412e+05	8.337e+04	0.02	-0.96	0.0	231.33	-3701.10	-920.57	-3.096e+04	8.337e+04	4.412e+05
		9.178e+04	-8875.18	3.26e-04		50.0	231.33	-3103.93	-920.57	-3.086e+04	3.725e+04	2.502e+05
						100.0	231.33	-2563.53	-920.57	-3.076e+04	-8875.18	9.178e+04
360	103	4.497e+05	6.029e+04	-0.03	-0.98	0.0	350.90	-3401.14	-685.74	-3.555e+04	6.029e+04	4.497e+05
		1.000e+05	-8286.06	3.23e-04		50.0	350.90	-2860.02	-685.74	-3.544e+04	2.600e+04	2.565e+05

Trave f.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Pt	Pos.	N	V 2	V 3	T	M 2	M 3
360	105	4.439e+05 8.487e+04	8.901e+04 -9614.79	0.02 -2.33e-04	-0.97	100.0 0.0 50.0	350.90 317.85 317.85	-2370.18 -3665.91 -3073.80	-685.74 -985.99 -985.99	-3.534e+04 -2.855e+04 -2.847e+04	-8286.06 8.901e+04 3.970e+04	1.000e+05 4.439e+05 2.487e+05
360	115	5.024e+05 9.620e+04	5.409e+04 -6880.29	-0.02 -8.40e-05	-1.00	100.0 0.0 50.0 100.0	317.85 429.27 429.27 429.27	-2538.18 -4830.73 -4049.79 -3343.22	-985.99 -609.71 -609.71 -609.71	-2.841e+04 -3.225e+04 -3.213e+04 -3.203e+04	-9614.79 5.409e+04 2.361e+04 -6880.29	8.487e+04 5.024e+05 2.807e+05 9.620e+04
360	122	4.045e+05 6.983e+04	6.090e+04 -6925.88	-0.02 2.65e-04	-0.96	0.0 50.0 100.0	352.48 352.48 352.48	-3983.73 -3336.79 -2751.96	-678.28 -678.28 -678.28	-2.691e+04 -2.682e+04 -2.674e+04	6.090e+04 2.699e+04 -6925.88	4.045e+05 2.218e+05 6.983e+04
360	123	4.447e+05 6.914e+04	6.313e+04 -7210.56	-0.02 2.66e-04	-0.98	0.0 50.0 100.0	374.02 374.02 374.02	-4474.64 -3743.52 -3082.90	-703.40 -703.40 -703.40	-2.785e+04 -2.776e+04 -2.768e+04	6.313e+04 2.796e+04 -7210.56	4.447e+05 2.395e+05 6.914e+04
360	125	4.956e+05 8.419e+04	5.985e+04 -7397.46	-0.02 9.36e-05	-1.00	0.0 50.0 100.0	427.88 427.88 427.88	-4898.65 -4101.03 -3379.95	-672.45 -672.45 -672.45	-3.153e+04 -3.142e+04 -3.133e+04	5.985e+04 2.623e+04 -7397.46	4.956e+05 2.709e+05 8.419e+04
360	130	4.907e+05 8.267e+04	5.786e+04 -6872.66	-0.02 9.27e-05	-1.00	0.0 50.0 100.0	444.63 444.63 444.63	-4858.90 -4067.34 -3351.78	-647.31 -647.31 -647.31	-3.055e+04 -3.045e+04 -3.035e+04	5.786e+04 2.549e+04 -6872.66	4.907e+05 2.678e+05 8.267e+04
360	135	4.287e+05 8.451e+04	5.505e+04 -6677.82	-0.02 8.85e-05	-0.96	0.0 50.0 100.0	399.56 399.56 399.56	-4090.49 -3431.05 -2834.44	-617.23 -617.23 -617.23	-2.949e+04 -2.939e+04 -2.930e+04	5.505e+04 2.418e+04 -6677.82	4.287e+05 2.409e+05 8.451e+04
360	137	4.110e+05 8.180e+04	5.549e+04 -6635.79	-0.02 1.24e-04	-0.95	0.0 50.0 100.0	383.25 383.25 383.25	-3911.90 -3281.92 -2711.94	-621.30 -621.30 -621.30	-2.867e+04 -2.858e+04 -2.849e+04	5.549e+04 2.443e+04 -6635.79	4.110e+05 2.314e+05 8.180e+04
360	140	4.126e+05 8.479e+04	5.415e+04 -6563.98	-0.02 8.82e-05	-0.95	0.0 50.0 100.0	390.95 390.95 390.95	-3894.13 -3268.36 -2702.06	-607.19 -607.19 -607.19	-2.911e+04 -2.901e+04 -2.892e+04	5.415e+04 2.380e+04 -6563.98	4.126e+05 2.338e+05 8.479e+04
360	141	4.126e+05 8.479e+04	5.415e+04 -6563.98	-0.02 8.82e-05	-0.95	0.0 50.0 100.0	390.95 390.95 390.95	-3894.13 -3268.36 -2702.06	-607.19 -607.19 -607.19	-2.911e+04 -2.901e+04 -2.892e+04	5.415e+04 2.380e+04 -6563.98	4.126e+05 2.338e+05 8.479e+04
361	10	4.121e+05 1.335e+05	1.456e+04 -6.484e+04	-0.01 -8.36e-04	-0.95	0.0 50.0 100.0	-615.86 -615.86 -615.86	-3280.63 -2779.26 -2319.65	794.02 794.02 794.02	4596.12 4203.34 3811.98	-6.484e+04 -2.514e+04 1.456e+04	4.121e+05 2.608e+05 1.335e+05
361	12	3.108e+05 1.951e+05	1.844e+04 -8.135e+04	-5.77e-04 -1.19e-03	-1.24	0.0 50.0 100.0	-848.08 -848.08 -848.08	-1290.75 -1157.03 -1025.53	997.90 997.90 997.90	5150.15 4631.23 4113.88	-8.135e+04 -3.145e+04 1.844e+04	3.108e+05 2.496e+05 1.951e+05
361	25	1.269e+05 -1.147e+04	1.204e+04 -5.999e+04	-7.64e-03 -1.32e-04	-0.88	0.0 50.0 100.0	-143.13 -143.13 -143.13	-1666.18 -1379.17 -1120.88	720.34 720.34 720.34	5787.86 5432.24 5078.46	-5.999e+04 -2.397e+04 1.204e+04	1.269e+05 5.091e+04 -1.147e+04
361	38	2.550e+05 9.928e+04	1.944e+04 -9.076e+04	-5.43e-03 -7.44e-04	-1.28	0.0 50.0 100.0	-409.30 -409.30 -409.30	-1819.37 -1554.00 -1309.05	1101.97 1101.97 1101.97	7165.27 6624.14 6085.26	-9.076e+04 -3.566e+04 1.944e+04	2.550e+05 1.708e+05 9.928e+04
361	51	2.061e+05 1.041e+05	1.449e+04 -7.167e+04	-0.02 6.35e-04	-0.94	0.0 50.0 100.0	-346.67 -346.67 -346.67	-671.18 -583.42 -499.42	859.19 859.19 859.19	-7675.11 -7964.16 -8256.22	-7.167e+04 -2.859e+04 1.449e+04	2.061e+05 1.469e+05 1.041e+05
361	54	6.116e+04 928.80	1.124e+04 -4.912e+04	0.02 -1.67e-03	-0.88	0.0 50.0 100.0	-235.19 -235.19 -235.19	-1224.01 -1035.74 -864.87	606.06 606.06 606.06	1.619e+04 1.574e+04 1.530e+04	-4.912e+04 -1.894e+04 1.124e+04	6.116e+04 3.261e+04 928.80
361	64	1.144e+05 4.320e+04	1.704e+04 -8.705e+04	0.02 -7.83e-04	-0.89	0.0 50.0 100.0	-393.07 -393.07 -393.07	-1307.30 -1107.02 -923.71	1039.28 1039.28 1039.28	5325.39 4948.28 4574.14	-8.705e+04 -3.500e+04 1.704e+04	1.144e+05 7.939e+04 4.320e+04
361	65	1.518e+05 6.223e+04	8681.43 -3.330e+04	-0.02 -2.46e-04	-0.93	0.0 50.0 100.0	-181.09 -181.09 -181.09	-570.46 -497.85 -429.10	421.49 421.49 421.49	3480.69 3121.02 2761.12	-3.330e+04 -1.231e+04 8681.43	1.518e+05 9.989e+04 6.223e+04
361	72	1.137e+05 3.650e+04	1.849e+04 -9.753e+04	0.03 6.88e-05	-0.87	0.0 50.0 100.0	-370.94 -370.94 -370.94	-1577.37 -1322.64 -1090.89	1159.11 1159.11 1159.11	5911.41 5454.13 4999.32	-9.753e+04 -3.952e+04 1.849e+04	1.137e+05 8.379e+04 3.650e+04
361	76	1.120e+05 3.499e+04	1.841e+04 -9.797e+04	0.03 8.19e-05	-0.87	0.0 50.0 100.0	-368.07 -368.07 -368.07	-1561.47 -1310.09 -1081.47	1162.83 1162.83 1162.83	5850.47 5396.73 4945.43	-9.797e+04 -3.978e+04 1.841e+04	1.120e+05 8.199e+04 3.499e+04
361	83	1.861e+05 8.983e+04	1.404e+04 -6.853e+04	-0.01 3.15e-04	-0.93	0.0 50.0 100.0	-330.60 -330.60 -330.60	-746.19 -644.76 -548.96	824.02 824.02 824.02	-4310.41 -4622.00 -4935.39	-6.853e+04 -2.724e+04 1.404e+04	1.861e+05 1.312e+05 8.983e+04
361	86	8.121e+04 1.542e+04	1.170e+04 -5.221e+04	0.02 -1.35e-03	-0.89	0.0 50.0 100.0	-249.76 -249.76 -249.76	-1145.70 -971.78 -813.29	640.87 640.87 640.87	1.284e+04 1.242e+04 1.200e+04	-5.221e+04 -2.026e+04 1.170e+04	8.121e+04 4.848e+04 1.542e+04
361	96	1.195e+05 4.634e+04	1.591e+04 -7.978e+04	0.01 -7.44e-04	-0.89	0.0 50.0 100.0	-363.01 -363.01 -363.01	-1199.46 -1018.41 -852.29	955.73 955.73 955.73	5116.89 4742.71 4370.98	-7.978e+04 -3.193e+04 1.591e+04	1.195e+05 8.227e+04 4.634e+04

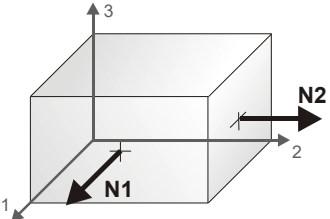
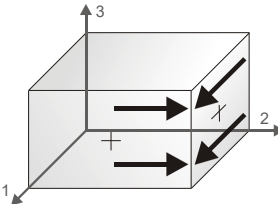
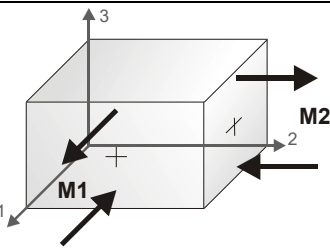
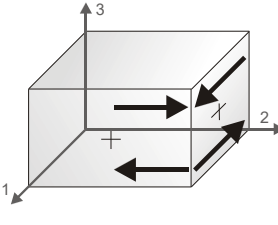
Trave f.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Pt	Pos.	N	V 2	V 3	T	M 2	M 3
361	97	1.469e+05	9825.41	-0.02	-0.92	0.0	-211.70	-679.57	505.83	3636.75	-4.064e+04	1.469e+05
		5.920e+04	-4.064e+04	-2.85e-04		50.0	-211.70	-587.57	505.83	3274.54	-1.541e+04	9.717e+04
						100.0	-211.70	-501.47	505.83	2912.59	9825.41	5.920e+04
361	104	1.195e+05	1.692e+04	0.02	-0.88	0.0	-346.96	-1393.37	1039.08	5464.64	-8.707e+04	1.195e+05
		4.155e+04	-8.707e+04	-1.99e-04		50.0	-346.96	-1172.95	1039.08	5034.47	-3.508e+04	8.566e+04
						100.0	-346.96	-971.84	1039.08	4606.45	1.692e+04	4.155e+04
361	108	1.182e+05	1.686e+04	0.02	-0.88	0.0	-344.92	-1381.64	1041.93	5421.07	-8.740e+04	1.182e+05
		4.045e+04	-8.740e+04	-1.73e-04		50.0	-344.92	-1163.71	1041.93	4993.43	-3.527e+04	8.434e+04
						100.0	-344.92	-964.92	1041.93	4567.94	1.686e+04	4.045e+04
361	115	2.790e+05	1.424e+04	-5.68e-03	-0.95	0.0	-501.30	-1944.33	787.35	4749.86	-6.450e+04	2.790e+05
		1.124e+05	-6.450e+04	-7.42e-04		50.0	-501.30	-1662.38	787.35	4350.34	-2.513e+04	1.889e+05
						100.0	-501.30	-1401.82	787.35	3952.28	1.424e+04	1.124e+05
361	117	2.656e+05	1.377e+04	-3.39e-03	-0.93	0.0	-609.60	-1541.64	748.10	3809.41	-6.104e+04	2.656e+05
		1.317e+05	-6.104e+04	-8.49e-04		50.0	-609.60	-1336.66	748.10	3429.23	-2.364e+04	1.937e+05
						100.0	-609.60	-1144.44	748.10	3050.21	1.377e+04	1.317e+05
361	122	8.865e+04	1.256e+04	-3.38e-03	-0.91	0.0	-185.87	-867.96	738.31	5538.43	-6.127e+04	8.865e+04
		1.555e+04	-6.127e+04	-2.72e-04		50.0	-185.87	-728.86	738.31	5163.71	-2.435e+04	4.878e+04
						100.0	-185.87	-602.47	738.31	4790.74	1.256e+04	1.555e+04
361	130	2.284e+05	1.443e+04	-6.62e-03	-0.96	0.0	-317.01	-1894.17	817.55	5147.02	-6.732e+04	2.284e+05
		6.780e+04	-6.732e+04	-5.52e-04		50.0	-317.01	-1601.37	817.55	4752.07	-2.644e+04	1.411e+05
						100.0	-317.01	-1333.50	817.55	4358.72	1.443e+04	6.780e+04
361	135	1.527e+05	1.311e+04	-3.49e-03	-0.92	0.0	-294.39	-1123.82	743.98	4586.57	-6.129e+04	1.527e+05
		5.669e+04	-6.129e+04	-5.21e-04		50.0	-294.39	-957.59	743.98	4211.50	-2.409e+04	1.007e+05
						100.0	-294.39	-804.47	743.98	3837.85	1.311e+04	5.669e+04
361	136	1.509e+05	1.293e+04	-2.52e-03	-0.91	0.0	-350.18	-968.15	727.49	4181.85	-5.982e+04	1.509e+05
		6.739e+04	-5.982e+04	-5.77e-04		50.0	-350.18	-833.06	727.49	3814.64	-2.344e+04	1.059e+05
						100.0	-350.18	-707.45	727.49	3448.71	1.293e+04	6.739e+04
361	137	1.248e+05	1.281e+04	-2.88e-03	-0.91	0.0	-268.19	-925.73	732.33	4612.73	-6.042e+04	1.248e+05
		4.577e+04	-6.042e+04	-4.65e-04		50.0	-268.19	-788.79	732.33	4243.26	-2.381e+04	8.201e+04
						100.0	-268.19	-662.69	732.33	3875.22	1.281e+04	4.577e+04
361	140	1.338e+05	1.287e+04	-2.76e-03	-0.91	0.0	-288.69	-939.92	730.74	4387.22	-6.020e+04	1.338e+05
		5.329e+04	-6.020e+04	-5.14e-04		50.0	-288.69	-803.54	730.74	4019.02	-2.367e+04	9.027e+04
						100.0	-288.69	-677.55	730.74	3652.18	1.287e+04	5.329e+04
361	141	1.338e+05	1.287e+04	-2.76e-03	-0.91	0.0	-288.69	-939.92	730.74	4387.22	-6.020e+04	1.338e+05
		5.329e+04	-6.020e+04	-5.14e-04		50.0	-288.69	-803.54	730.74	4019.02	-2.367e+04	9.027e+04
						100.0	-288.69	-677.55	730.74	3652.18	1.287e+04	5.329e+04
362	3	-3.370e+05	-2.241e+04	0.02	-0.43	0.0	-435.80	-1495.30	453.71	2.504e+05	-6.636e+04	-3.370e+05
		-3.955e+05	-6.636e+04	-4.07e-04		48.4	-435.80	-572.03	453.71	2.487e+05	-4.438e+04	-3.874e+05
						96.9	-435.80	-418.73	453.71	2.471e+05	-2.241e+04	-3.914e+05
362	12	-3.201e+05	-3.424e+04	0.03	-0.60	0.0	-832.41	-1919.25	678.21	3.586e+05	-9.994e+04	-3.201e+05
		-3.937e+05	-9.994e+04	-1.01e-03		48.4	-832.41	-711.12	678.21	3.559e+05	-6.709e+04	-3.842e+05
						96.9	-832.41	-609.34	678.21	3.536e+05	-3.424e+04	-3.872e+05
362	13	-1.835e+05	-2.357e+04	0.01	-0.42	0.0	-676.47	-2027.55	496.54	2.478e+05	-7.167e+04	-1.835e+05
		-2.901e+05	-7.167e+04	-8.42e-04		48.4	-676.47	-1110.75	496.54	2.460e+05	-4.762e+04	-2.598e+05
						96.9	-676.47	-130.71	496.54	2.445e+05	-2.357e+04	-2.901e+05
362	18	-5.837e+05	-3.547e+04	0.03	-0.62	0.0	-620.86	-1077.47	618.78	3.991e+05	-9.541e+04	-6.096e+05
		-6.312e+05	-9.541e+04	-3.86e-04		48.4	-620.86	-245.15	618.78	3.963e+05	-6.544e+04	-6.302e+05
						96.9	-620.86	-1699.41	618.78	3.938e+05	-3.547e+04	-5.837e+05
362	35	-3.606e+05	-2.046e+04	0.02	-0.42	0.0	-443.24	-1074.69	416.28	1.452e+05	-6.079e+04	-3.606e+05
		-3.933e+05	-6.079e+04	-4.37e-04		48.4	-443.24	-212.98	416.28	1.432e+05	-4.063e+04	-3.921e+05
						96.9	-443.24	-725.07	416.28	1.413e+05	-2.046e+04	-3.800e+05
362	44	-4.578e+05	-3.380e+04	0.03	-0.60	0.0	-624.41	-1690.87	695.90	4.147e+05	-1.012e+05	-4.578e+05
		-5.128e+05	-1.012e+05	-5.70e-04		48.4	-624.41	-429.32	695.90	4.122e+05	-6.751e+04	-5.096e+05
						96.9	-624.41	-942.73	695.90	4.100e+05	-3.380e+04	-4.976e+05
362	47	-1.551e+05	-1.686e+04	-0.02	-0.46	0.0	137.52	60.41	649.15	5.928e+04	-5.610e+04	-1.551e+05
		-3.056e+05	-5.610e+04	8.73e-04		48.4	137.52	913.61	649.15	5.720e+04	-3.648e+04	-2.659e+05
						96.9	137.52	1872.63	649.15	5.517e+04	-1.686e+04	-3.056e+05
362	50	-4.078e+05	-2.913e+04	0.02	-0.42	0.0	-1056.59	-2619.24	336.55	4.192e+05	-8.538e+04	-4.840e+05
		-4.840e+05	-8.538e+04	-1.74e-03		48.4	-1056.59	-1705.86	336.55	4.175e+05	-5.726e+04	-4.550e+05
						96.9	-1056.59	-748.20	336.55	4.161e+05	-2.913e+04	-4.078e+05
362	71	-2.100e+05	-7316.78	-0.08	-0.48	0.0	0.20	489.07	228.08	-1.226e+05	-2.562e+04	-2.100e+05
		-2.874e+05	-2.562e+04	-2.35e-04		48.4	0.20	1102.23	228.08	-1.253e+05	-1.647e+04	-2.861e+05
						96.9	0.20	1830.68	228.08	-1.281e+05	-7316.78	-2.644e+05
362	78	-4.214e+05	-3.866e+04	0.08	-0.39	0.0	-897.70	-3003.67	748.92	6.110e+05	-1.149e+05	-4.221e+05
		-4.495e+05	-1.149e+05	-6.64e-04		48.4	-897.70	-1837.96	748.92	6.100e+05	-7.679e+04	-4.315e+05
						96.9	-897.70	-637.91	748.92	6.094e+05	-3.866e+04	-4.495e+05
362	79	-2.007e+05	-1.861e+04	-0.02	-0.46	0.0	-25.88	-314.32	599.55	1.119e+05	-5.960e+04	-2.007e+05
		-3.206e+05	-5.960e+04	5.21e-04		48.4	-25.88	547.87	599.55	1.099e+05	-3.911e+04	-2.918e+05
						96.9	-25.88	1507.29	599.55	1.079e+05	-1.861e+04	-3.201e+05
362	82	-3.934e+05	-2.753e+04	0.02	-0.42	0.0	-885.84	-2242.20	374.13	3.733e+05	-8.088e+04	-4.387e+05

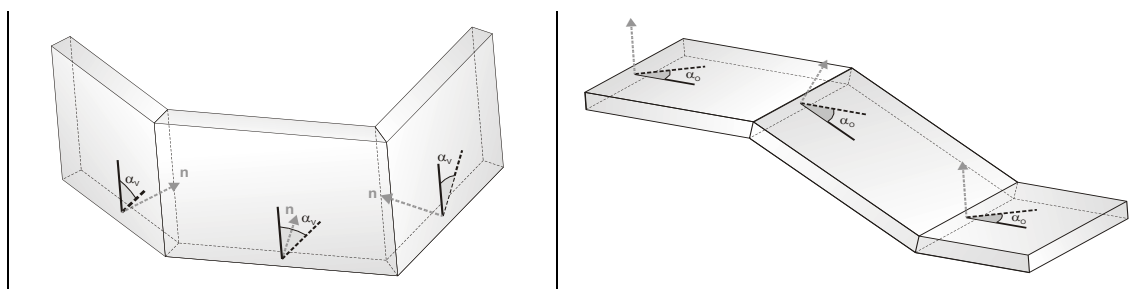
Trave f.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Pt	Pos.	N	V 2	V 3	T	M 2	M 3
		-4.394e+05	-8.088e+04	-1.38e-03		48.4	-885.84	-1338.15	374.13	3.715e+05	-5.421e+04	-4.292e+05
						96.9	-885.84	-381.20	374.13	3.701e+05	-2.753e+04	-3.934e+05
362	103	-2.418e+05	-1.174e+04	-0.06	-0.47	0.0	-125.28	-28.30	297.02	-2.038e+04	-3.785e+04	-2.418e+05
		-3.087e+05	-3.785e+04	-2.80e-04		48.4	-125.28	663.79	297.02	-2.284e+04	-2.479e+04	-3.068e+05
						96.9	-125.28	1459.63	297.02	-2.533e+04	-1.174e+04	-2.907e+05
362	110	-3.922e+05	-3.434e+04	0.06	-0.41	0.0	-771.06	-2493.82	669.93	5.119e+05	-1.019e+05	-3.922e+05
		-4.234e+05	-1.019e+05	-6.04e-04		48.4	-771.06	-1411.47	669.93	5.105e+05	-6.811e+04	-4.116e+05
						96.9	-771.06	-283.07	669.93	5.097e+05	-3.434e+04	-4.228e+05
362	111	-3.197e+05	-2.323e+04	0.02	-0.44	0.0	-446.21	-1272.60	471.82	2.501e+05	-6.893e+04	-3.197e+05
		-3.642e+05	-6.893e+04	-4.24e-04		48.4	-446.21	-390.83	471.82	2.482e+05	-4.608e+04	-3.603e+05
						96.9	-446.21	566.05	471.82	2.465e+05	-2.323e+04	-3.564e+05
362	116	-2.173e+05	-2.402e+04	0.02	-0.44	0.0	-606.08	-1627.10	499.97	2.484e+05	-7.245e+04	-2.173e+05
		-2.897e+05	-7.245e+04	-7.14e-04		48.4	-606.08	-749.75	499.97	2.466e+05	-4.823e+04	-2.752e+05
						96.9	-606.08	199.89	499.97	2.449e+05	-2.402e+04	-2.888e+05
362	117	-2.675e+05	-2.539e+04	0.02	-0.45	0.0	-607.10	-1597.30	502.68	2.728e+05	-7.408e+04	-2.675e+05
		-3.322e+05	-7.408e+04	-7.21e-04		48.4	-607.10	-646.75	502.68	2.709e+05	-4.973e+04	-3.222e+05
						96.9	-607.10	383.63	502.68	2.692e+05	-2.539e+04	-3.289e+05
362	120	-4.600e+05	-2.620e+04	0.02	-0.46	0.0	-466.45	-1036.46	463.35	2.997e+05	-7.108e+04	-4.605e+05
		-4.862e+05	-7.108e+04	-3.02e-04		48.4	-466.45	-9.48	463.35	2.976e+05	-4.864e+04	-4.862e+05
						96.9	-466.45	1110.20	463.35	2.958e+05	-2.620e+04	-4.600e+05
362	127	-3.355e+05	-2.194e+04	0.02	-0.44	0.0	-451.08	-992.37	446.68	1.798e+05	-6.521e+04	-3.355e+05
		-3.641e+05	-6.521e+04	-4.45e-04		48.4	-451.08	-151.60	446.68	1.777e+05	-4.357e+04	-3.635e+05
						96.9	-451.08	770.19	446.68	1.758e+05	-2.194e+04	-3.488e+05
362	133	-3.593e+05	-2.509e+04	0.02	-0.45	0.0	-468.58	-1445.12	514.64	3.102e+05	-7.495e+04	-3.593e+05
...												
611	141	-3.743e+05	-6.925e+04	3.57e-04	-0.43	96.9	-525.76	928.97	-448.29	-2.600e+05	-6.925e+04	-3.489e+05
Trave f.		M3 mx/mn	M2 mx/mn	D 2 / D 3	Pt		N	V 2	V 3	T		
		-2.255e+06	-2.287e+05	-0.50	-2.44		-8048.44	-3.173e+04	-2207.15	-6.100e+05		
		3.101e+06	2.640e+05	0.42	-0.39		2.563e+04	1.926e+04	2402.29	6.146e+05		

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.

 Azione N	 Azione N 1-2
 Azione M	 Azione M 1-2
orientamento per stampa setti	orientamento per stampa gusci



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

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

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

In questo caso gli elementi vengono raggruppati in gruppi (M_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi.

I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di α_o attorno all'asse Z per i gusci e ruotata di α_v attorno alla normale (che per definizione è orizzontale) al piano del setto. Per i setti, in particolare, se α_v è zero, l'asse '1-1' rappresenta la verticale e l'asse '2-2' l'orizzontale contenuta nel setto.

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

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	8	-113.70	-1.681e+05	2.743e+04	-2381.87	-3.616e+07	-2.349e+05	1.016e+05
1	8	-55.00	-1.786e+05	2.658e+04	-2381.87	-4.190e+07	-1.760e+05	1.148e+05
1	8	-25.00	-1.678e+05	8551.25	1460.96	-3.588e+07	-1.163e+05	6.477e+04
1	8	0.0	-1.725e+05	1.287e+04	1319.33	-4.228e+07	-7.537e+04	4.592e+04
1	8	40.00	-1.599e+05	9968.72	1595.28	-3.727e+07	-1.893e+04	5968.58



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	8	80.00	-1.527e+05	1960.53	328.34	-3.595e+07	2367.51	-1.358e+04
1	8	120.00	-1.420e+05	2194.04	446.47	-3.064e+07	2.029e+04	-5.657e+04
1	8	160.00	-1.351e+05	2291.23	138.16	-2.832e+07	2.581e+04	-8.272e+04
1	8	200.00	-1.263e+05	1502.75	63.41	-2.545e+07	2.726e+04	-1.051e+05
1	8	240.00	-1.177e+05	-218.82	80.50	-2.105e+06	2.906e+04	-8.791e+04
1	8	270.00	-1.109e+05	-2197.20	70.89	-1.878e+06	3.392e+04	-1.089e+05
1	8	280.00	-1.094e+05	-3456.66	-59.33	-1.180e+06	3.470e+04	-1.121e+05
1	8	320.00	-8.859e+04	-1984.55	104.82	1.919e+06	3.797e+04	-1.127e+05
1	8	333.33	-6.366e+04	1.438e+04	-285.85	-2.219e+07	3.965e+04	-1.038e+05
1	8	346.67	-6.306e+04	1.073e+04	-270.34	-2.144e+07	3.538e+04	-1.001e+05
1	8	360.00	-6.158e+04	7828.19	-173.18	-2.113e+07	3.038e+04	-9.878e+04
1	8	373.33	-5.548e+04	4029.48	-177.15	-2.064e+07	2.811e+04	-8.147e+04
1	8	386.67	-5.484e+04	2660.14	-220.05	-1.957e+07	2.589e+04	-7.259e+04
1	8	400.00	-5.428e+04	728.94	-222.16	-1.848e+07	2.343e+04	-6.747e+04
1	8	413.33	-5.075e+04	-524.28	-366.51	-1.701e+07	1.936e+04	-6.264e+04
1	8	426.67	-4.905e+04	-1959.48	-353.35	-1.541e+07	1.472e+04	-6.081e+04
1	8	440.00	-4.729e+04	-3305.95	-327.89	-1.390e+07	1.012e+04	-6.039e+04
1	8	453.33	-4.011e+04	-2529.33	-297.71	-1.144e+07	3645.94	-6.042e+04
1	8	466.67	-3.595e+04	-2992.87	-229.71	-9.274e+06	-2674.80	-5.811e+04
1	8	480.00	-3.174e+04	-3132.55	-223.92	-7.292e+06	-4764.52	-4.675e+04
1	8	493.33	-5650.82	-3825.25	7.89	-2.491e+05	-5225.07	-4.047e+04
1	8	506.67	-5634.20	-3530.49	-11.91	-9.101e+04	-4588.28	-3.870e+04
1	8	520.00	-5570.29	-3047.99	-9.09	4.215e+04	-4090.20	-3.939e+04
1	8	533.33	-4550.02	2730.64	-122.14	5.735e+04	-4399.92	-3.575e+04
1	8	546.67	-4586.22	3156.64	-107.59	1.164e+05	-5162.06	-3.537e+04
1	8	560.00	-4599.55	3793.79	-83.00	1.512e+05	-5831.79	-3.563e+04
1	8	573.33	-3097.76	4237.94	63.62	1.107e+05	-7382.24	-3.248e+04
1	8	586.67	-3175.39	4460.34	12.32	1.248e+05	-5850.21	-2.339e+04
1	8	600.00	-3274.43	4315.92	3.69	1.336e+05	-4546.99	-1.857e+04
1	8	613.33	-2315.47	3700.86	12.77	1.099e+05	-3248.19	-1.267e+04
1	8	626.67	-1869.19	2793.39	-2.66	6.839e+04	-2449.58	-8940.42
1	8	640.00	-1377.50	1482.28	-6.48	2.368e+04	-1708.10	-6313.62
1	8	653.33	-444.70	378.49	8.61	4029.93	-964.95	-3113.49
1	8	666.67	-239.90	-96.89	-0.11	450.99	-492.08	-1251.11
1	12	-113.70	-1.605e+05	2.667e+04	-3028.42	-3.394e+07	-3.596e+05	9.119e+04
1	12	-55.00	-1.706e+05	2.588e+04	-3028.42	-3.941e+07	-2.325e+05	1.160e+05
1	12	-25.00	-1.600e+05	8760.93	2102.14	-3.369e+07	-1.485e+05	7.161e+04
1	12	0.0	-1.646e+05	1.298e+04	1939.71	-3.989e+07	-8.736e+04	5.583e+04
1	12	40.00	-1.524e+05	1.018e+04	2146.54	-3.520e+07	-6943.37	1.636e+04
1	12	80.00	-1.455e+05	2457.21	705.19	-3.406e+07	3.472e+04	-8063.78
1	12	120.00	-1.353e+05	2676.35	836.89	-2.917e+07	6.746e+04	-4.362e+04
1	12	160.00	-1.287e+05	2766.29	346.72	-2.712e+07	8.221e+04	-7.377e+04
1	12	200.00	-1.202e+05	1997.02	118.48	-2.452e+07	8.704e+04	-1.013e+05
1	12	240.00	-1.119e+05	323.60	-1.45	-2.369e+06	8.590e+04	-8.485e+04
1	12	270.00	-1.051e+05	-1558.56	-188.12	-2.120e+06	8.303e+04	-1.075e+05
1	12	280.00	-1.036e+05	-2749.07	-306.58	-1.419e+06	8.151e+04	-1.114e+05
1	12	320.00	-8.366e+04	-1501.01	-194.03	1.541e+06	7.170e+04	-1.157e+05
1	12	333.33	-5.994e+04	1.387e+04	-594.65	-2.110e+07	7.001e+04	-1.147e+05
1	12	346.67	-5.943e+04	1.038e+04	-547.06	-2.039e+07	6.113e+04	-1.152e+05
1	12	360.00	-5.812e+04	7549.21	-367.92	-2.008e+07	5.080e+04	-1.186e+05
1	12	373.33	-5.235e+04	3866.05	-314.40	-1.954e+07	4.632e+04	-9.380e+04
1	12	386.67	-5.179e+04	2485.18	-379.74	-1.852e+07	4.210e+04	-8.231e+04
1	12	400.00	-5.130e+04	605.99	-381.80	-1.750e+07	3.749e+04	-7.656e+04
1	12	413.33	-4.788e+04	-580.24	-620.73	-1.611e+07	3.035e+04	-7.169e+04
1	12	426.67	-4.630e+04	-1954.37	-592.12	-1.460e+07	2.236e+04	-7.123e+04
1	12	440.00	-4.467e+04	-3246.28	-547.31	-1.317e+07	1.442e+04	-7.279e+04
1	12	453.33	-3.784e+04	-2515.99	-531.59	-1.084e+07	3108.69	-7.540e+04
1	12	466.67	-3.392e+04	-2946.76	-409.35	-8.784e+06	-7893.24	-7.383e+04
1	12	480.00	-2.995e+04	-3073.18	-395.64	-6.911e+06	-1.186e+04	-5.700e+04
1	12	493.33	-5248.91	-3710.24	46.74	-2.571e+05	-1.336e+04	-5.008e+04
1	12	506.67	-5246.73	-3426.16	25.13	-1.044e+05	-1.183e+04	-5.056e+04
1	12	520.00	-5202.83	-2965.70	34.83	2.598e+04	-1.051e+04	-5.494e+04
1	12	533.33	-4211.12	2533.65	-182.15	4.251e+04	-1.064e+04	-5.094e+04
1	12	546.67	-4260.65	2946.33	-147.03	1.006e+05	-1.145e+04	-5.250e+04
1	12	560.00	-4291.71	3558.26	-102.19	1.366e+05	-1.209e+04	-5.490e+04
1	12	573.33	-2862.88	3988.75	111.74	1.028e+05	-1.427e+04	-5.139e+04
1	12	586.67	-2943.68	4211.49	37.60	1.163e+05	-1.146e+04	-3.804e+04
1	12	600.00	-3047.73	4090.55	26.48	1.250e+05	-8994.23	-3.126e+04
1	12	613.33	-2134.40	3521.45	31.37	1.039e+05	-6630.62	-2.222e+04
1	12	626.67	-1725.34	2667.40	7.00	6.464e+04	-5050.89	-1.636e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	12	640.00	-1274.68	1424.80	-1.20	2.252e+04	-3550.33	-1.201e+04
1	12	653.33	-399.77	380.39	25.30	4075.36	-2074.24	-6271.58
1	12	666.67	-215.72	-76.36	4.14	529.55	-1050.65	-2646.23
1	25	-113.70	-1.138e+05	1.659e+04	245.31	-2.449e+07	1.452e+05	5.894e+04
1	25	-55.00	-1.210e+05	1.593e+04	245.31	-2.835e+07	3.653e+04	4.078e+04
1	25	-25.00	-1.132e+05	3955.52	-500.79	-2.417e+07	1.935e+04	4945.67
1	25	0.0	-1.165e+05	6922.02	-489.15	-2.854e+07	1013.51	-8595.76
1	25	40.00	-1.076e+05	4953.06	-271.12	-2.509e+07	-1.635e+04	-2.630e+04
1	25	80.00	-1.026e+05	-572.04	-586.14	-2.417e+07	-4.643e+04	-2.218e+04
1	25	120.00	-9.528e+04	-414.64	-529.95	-2.059e+07	-6.607e+04	-6.177e+04
1	25	160.00	-9.042e+04	-368.02	-316.96	-1.903e+07	-8.023e+04	-6.468e+04
1	25	200.00	-8.424e+04	-851.96	-33.04	-1.708e+07	-8.478e+04	-6.376e+04
1	25	240.00	-7.819e+04	-1907.54	253.78	-1.498e+06	-7.626e+04	-5.779e+04
1	25	270.00	-7.324e+04	-3124.65	579.14	-1.343e+06	-5.759e+04	-6.476e+04
1	25	280.00	-7.224e+04	-4000.97	484.96	-8.406e+05	-5.246e+04	-6.514e+04
1	25	320.00	-5.824e+04	-2598.20	585.93	1.168e+06	-2.732e+04	-5.470e+04
1	25	333.33	-4.189e+04	9151.05	467.82	-1.468e+07	-2.061e+04	-2.750e+04
1	25	346.67	-4.152e+04	6971.14	406.54	-1.416e+07	-1.337e+04	-1.554e+04
1	25	360.00	-4.062e+04	5211.42	262.86	-1.391e+07	-4536.28	-3304.33
1	25	373.33	-3.665e+04	2919.13	65.75	-1.353e+07	-2435.56	-1.340e+04
1	25	386.67	-3.624e+04	2029.74	111.29	-1.280e+07	-829.26	-1.654e+04
1	25	400.00	-3.587e+04	820.74	120.44	-1.206e+07	1011.96	-1.706e+04
1	25	413.33	-3.334e+04	21.13	200.33	-1.108e+07	3483.22	-1.722e+04
1	25	426.67	-3.224e+04	-896.91	192.26	-1.003e+07	6399.50	-1.563e+04
1	25	440.00	-3.110e+04	-1767.64	175.17	-9.037e+06	9321.87	-1.312e+04
1	25	453.33	-2.623e+04	-1325.06	145.85	-7.437e+06	1.366e+04	-1.047e+04
1	25	466.67	-2.353e+04	-1638.91	85.30	-6.032e+06	1.769e+04	-1.010e+04
1	25	480.00	-2.081e+04	-1772.97	80.76	-4.746e+06	1.827e+04	-1.723e+04
1	25	493.33	-3783.82	-2240.15	-304.64	-1.826e+05	1.736e+04	-2.022e+04
1	25	506.67	-3785.01	-2065.35	-298.67	-7.725e+04	1.413e+04	-1.695e+04
1	25	520.00	-3759.68	-1773.47	-302.45	1.311e+04	1.106e+04	-1.155e+04
1	25	533.33	-2967.17	1926.59	-99.84	3.015e+04	8606.23	-1.294e+04
1	25	546.67	-3000.99	2184.05	-123.09	6.936e+04	6559.10	-1.057e+04
1	25	560.00	-3018.37	2563.59	-137.29	9.287e+04	4550.34	-7237.26
1	25	573.33	-1948.92	2798.86	-18.45	6.747e+04	3181.72	-6105.02
1	25	586.67	-2003.18	2909.18	-50.65	7.575e+04	2255.75	-3618.48
1	25	600.00	-2083.85	2788.49	-66.25	8.270e+04	1258.39	-1384.72
1	25	613.33	-1419.88	2390.74	-4.36	6.916e+04	864.11	-690.61
1	25	626.67	-1146.81	1798.36	-19.14	4.262e+04	521.08	-35.12
1	25	640.00	-849.33	946.40	-23.31	1.440e+04	137.89	301.76
1	25	653.33	-250.65	247.04	-3.03	2450.11	76.31	99.16
1	25	666.67	-135.00	-57.27	-2.08	237.92	25.91	35.07
1	38	-113.70	-1.688e+05	2.739e+04	-1093.00	-3.659e+07	-2.654e+04	9.608e+04
1	38	-55.00	-1.795e+05	2.654e+04	-1093.00	-4.241e+07	-6.885e+04	9.075e+04
1	38	-25.00	-1.684e+05	9144.31	455.56	-3.620e+07	-4.890e+04	4.031e+04
1	38	0.0	-1.732e+05	1.346e+04	336.86	-4.260e+07	-4.036e+04	2.037e+04
1	38	40.00	-1.604e+05	1.050e+04	623.14	-3.746e+07	-2.389e+04	-1.324e+04
1	38	80.00	-1.531e+05	2515.92	-269.12	-3.601e+07	-3.493e+04	-2.221e+04
1	38	120.00	-1.423e+05	2696.38	-172.11	-3.056e+07	-4.109e+04	-6.914e+04
1	38	160.00	-1.353e+05	2783.96	-201.05	-2.810e+07	-5.067e+04	-8.574e+04
1	38	200.00	-1.264e+05	1987.21	-52.88	-2.514e+07	-5.576e+04	-9.829e+04
1	38	240.00	-1.178e+05	263.79	182.64	-1.751e+06	-5.121e+04	-8.553e+04
1	38	270.00	-1.111e+05	-1961.95	431.42	-1.687e+06	-3.647e+04	-1.017e+05
1	38	280.00	-1.096e+05	-3451.45	293.75	-1.015e+06	-3.294e+04	-1.038e+05
1	38	320.00	-8.892e+04	-1843.51	527.78	1.988e+06	-1.208e+04	-9.837e+04
1	38	333.33	-6.393e+04	1.460e+04	182.41	-2.220e+07	-5607.87	-7.738e+04
1	38	346.67	-6.331e+04	1.097e+04	146.57	-2.145e+07	-2867.62	-6.737e+04
1	38	360.00	-6.177e+04	8083.56	105.82	-2.115e+07	426.00	-5.864e+04
1	38	373.33	-5.572e+04	4316.13	-7.55	-2.066e+07	1122.84	-5.490e+04
1	38	386.67	-5.507e+04	2928.92	-7.17	-1.958e+07	1462.20	-5.150e+04
1	38	400.00	-5.448e+04	1014.36	-5.37	-1.848e+07	1804.54	-4.858e+04
1	38	413.33	-5.093e+04	-249.69	-21.85	-1.700e+07	1793.46	-4.520e+04
1	38	426.67	-4.921e+04	-1686.19	-25.47	-1.540e+07	1710.15	-4.246e+04
1	38	440.00	-4.744e+04	-3035.34	-25.60	-1.389e+07	1635.95	-3.999e+04
1	38	453.33	-4.021e+04	-2297.28	5.22	-1.144e+07	1620.63	-3.724e+04
1	38	466.67	-3.603e+04	-2775.27	-1.39	-9.269e+06	1544.80	-3.458e+04
1	38	480.00	-3.182e+04	-2942.72	-6.26	-7.286e+06	1733.80	-3.147e+04
1	38	493.33	-5710.42	-3658.32	-47.10	-2.365e+05	2268.50	-2.761e+04
1	38	506.67	-5689.78	-3376.07	-63.98	-8.044e+04	1842.39	-2.363e+04
1	38	520.00	-5622.76	-2906.36	-71.34	5.069e+04	1397.22	-1.996e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	38	533.33	-4587.74	2846.92	-25.08	6.576e+04	1093.24	-1.711e+04
1	38	546.67	-4618.72	3258.55	-41.09	1.230e+05	677.25	-1.433e+04
1	38	560.00	-4624.70	3875.58	-46.78	1.556e+05	245.46	-1.181e+04
1	38	573.33	-3101.24	4285.96	6.42	1.118e+05	-69.18	-9271.80
1	38	586.67	-3175.32	4484.95	-14.28	1.249e+05	-77.36	-6354.84
1	38	600.00	-3276.15	4318.17	-21.45	1.337e+05	-153.42	-4300.07
1	38	613.33	-2312.68	3693.62	-0.40	1.096e+05	-48.81	-2534.56
1	38	626.67	-1864.47	2779.73	-8.40	6.803e+04	-52.45	-1418.76
1	38	640.00	-1372.75	1466.48	-9.94	2.335e+04	-84.99	-741.51
1	38	653.33	-441.45	367.07	-2.15	3850.17	-25.65	-257.36
1	38	666.67	-237.67	-103.57	-1.82	375.93	-18.40	-62.62
1	55	-113.70	-1.099e+05	2.414e+04	-598.22	-1.652e+07	-2.574e+05	3.626e+04
1	55	-55.00	-1.172e+05	2.358e+04	-598.22	-2.049e+07	-2.944e+05	6.933e+04
1	55	-25.00	-1.109e+05	1.038e+04	421.71	-1.783e+07	-2.536e+05	5.596e+04
1	55	0.0	-1.133e+05	1.324e+04	129.84	-2.131e+07	-2.561e+05	3.874e+04
1	55	40.00	-1.056e+05	1.106e+04	206.85	-1.944e+07	-2.376e+05	6536.35
1	55	80.00	-1.007e+05	5814.76	-239.18	-1.953e+07	-2.621e+05	-144.48
1	55	120.00	-9.461e+04	6459.46	-430.73	-1.743e+07	-2.811e+05	-4.423e+04
1	55	160.00	-9.133e+04	6065.78	-361.47	-1.796e+07	-2.892e+05	-6.341e+04
1	55	200.00	-8.572e+04	5689.98	-511.67	-1.747e+07	-3.144e+05	-8.669e+04
1	55	240.00	-7.980e+04	3406.00	-127.13	-2.437e+06	-3.301e+05	9550.18
1	55	270.00	-7.493e+04	3918.33	41.02	-2.360e+06	-3.192e+05	-141.25
1	55	280.00	-7.345e+04	3183.68	-14.48	-1.471e+06	-3.197e+05	-3183.16
1	55	320.00	-5.939e+04	3680.52	611.28	5.476e+05	-3.039e+05	-1.221e+05
1	55	333.33	-4.167e+04	1.053e+04	450.77	-1.487e+07	-2.860e+05	-3.834e+05
1	55	346.67	-4.131e+04	8283.52	344.37	-1.438e+07	-2.928e+05	-4.082e+05
1	55	360.00	-4.050e+04	6440.22	661.20	-1.412e+07	-3.004e+05	-4.346e+05
1	55	373.33	-3.629e+04	2324.95	1397.68	-1.373e+07	-3.024e+05	-4.396e+05
1	55	386.67	-3.581e+04	1385.32	1264.51	-1.307e+07	-3.001e+05	-4.273e+05
1	55	400.00	-3.542e+04	-4.40	1182.20	-1.238e+07	-2.978e+05	-4.191e+05
1	55	413.33	-3.333e+04	-1598.35	1403.84	-1.153e+07	-3.101e+05	-4.270e+05
1	55	426.67	-3.216e+04	-2644.78	1302.14	-1.050e+07	-3.118e+05	-4.217e+05
1	55	440.00	-3.106e+04	-3670.50	1227.20	-9.485e+06	-3.135e+05	-4.170e+05
1	55	453.33	-2.631e+04	-2732.76	1284.54	-7.655e+06	-2.335e+05	-4.120e+05
1	55	466.67	-2.371e+04	-2898.37	1476.46	-6.153e+06	-2.526e+05	-4.001e+05
1	55	480.00	-2.082e+04	-3064.90	1536.92	-4.863e+06	-2.693e+05	-3.761e+05
1	55	493.33	-3333.71	-3078.07	1477.29	-1.272e+05	-8.352e+04	-3.338e+05
1	55	506.67	-3375.90	-2940.92	1250.53	-3.394e+04	-6.419e+04	-3.190e+05
1	55	520.00	-3396.35	-2677.76	997.41	4.714e+04	-4.441e+04	-3.050e+05
1	55	533.33	-2868.15	2030.39	1417.99	4.905e+04	-3.155e+04	-1.481e+05
1	55	546.67	-2964.02	2356.98	1134.63	8.239e+04	-8742.53	-9.940e+04
1	55	560.00	-3092.58	2817.16	734.24	1.124e+05	1.548e+04	-5.131e+04
1	55	573.33	-2214.63	3090.10	300.29	8.080e+04	722.97	-1.874e+04
1	55	586.67	-2251.45	3157.20	-84.32	7.939e+04	1.073e+04	-4.760e+04
1	55	600.00	-2389.79	3065.83	-227.64	8.962e+04	2.351e+04	-6.130e+04
1	55	613.33	-1493.64	2505.92	-264.82	8.071e+04	-4427.67	-3.741e+04
1	55	626.67	-1230.71	1964.39	-389.07	4.874e+04	5625.99	-2.167e+04
1	55	640.00	-940.22	1135.54	-432.13	1.669e+04	1.107e+04	-1.294e+04
1	55	653.33	-218.32	217.33	-448.90	4810.07	793.72	-3210.97
1	55	666.67	-188.62	-9.58	-696.96	2093.65	2542.87	1411.70
1	66	-113.70	-1.215e+05	2.149e+04	-1097.29	-2.550e+07	3.580e+04	4.629e+04
1	66	-55.00	-1.287e+05	2.087e+04	-1097.29	-2.943e+07	9905.93	2.903e+04
1	66	-25.00	-1.202e+05	1.224e+04	-2.55	-2.472e+07	1.799e+04	-1871.08
1	66	0.0	-1.233e+05	1.537e+04	12.08	-2.893e+07	2.495e+04	-1.220e+04
1	66	40.00	-1.135e+05	1.434e+04	240.84	-2.549e+07	3.101e+04	-2.199e+04
1	66	80.00	-1.080e+05	8470.15	-436.17	-2.427e+07	2.440e+04	-3.117e+04
1	66	120.00	-1.001e+05	7847.01	-249.76	-2.016e+07	9540.23	-4.901e+04
1	66	160.00	-9.414e+04	8671.00	-300.78	-1.784e+07	826.24	-5.479e+04
1	66	200.00	-8.746e+04	8069.29	-157.20	-1.548e+07	-4920.61	-5.695e+04
1	66	240.00	-8.099e+04	6982.49	-72.55	8.171e+05	-6680.39	-7.317e+04
1	66	270.00	-7.583e+04	4485.55	290.71	6.323e+05	2256.51	-8.322e+04
1	66	280.00	-7.518e+04	3496.92	198.84	7.790e+05	5610.65	-8.315e+04
1	66	320.00	-6.054e+04	3961.69	235.39	2.493e+06	2.106e+04	-4.603e+04
1	66	333.33	-4.407e+04	1.320e+04	521.66	-1.475e+07	3.607e+04	5.655e+04
1	66	346.67	-4.350e+04	1.054e+04	569.65	-1.431e+07	4.395e+04	9.713e+04
1	66	360.00	-4.242e+04	8508.79	249.27	-1.413e+07	5.158e+04	1.370e+05
1	66	373.33	-3.830e+04	6537.67	-492.52	-1.366e+07	5.722e+04	1.392e+05
1	66	386.67	-3.798e+04	5517.30	-433.21	-1.286e+07	5.530e+04	1.339e+05
1	66	400.00	-3.761e+04	4314.61	-388.88	-1.210e+07	5.344e+04	1.312e+05
1	66	413.33	-3.460e+04	3407.50	-611.29	-1.106e+07	4.797e+04	9.765e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	66	426.67	-3.347e+04	2408.28	-570.90	-9.974e+06	4.660e+04	8.581e+04
1	66	440.00	-3.226e+04	1492.57	-534.23	-8.964e+06	4.524e+04	7.406e+04
1	66	453.33	-2.806e+04	1244.03	-1170.19	-7.681e+06	3.677e+04	6.204e+04
1	66	466.67	-2.519e+04	876.45	-1178.18	-6.235e+06	3.530e+04	5.382e+04
1	66	480.00	-2.236e+04	811.73	-1160.62	-4.893e+06	3.318e+04	4.594e+04
1	66	493.33	-4475.45	-751.36	-93.80	-1.819e+05	-4.640e+04	-5266.84
1	66	506.67	-4439.15	-605.09	-47.11	-6.986e+04	-5.280e+04	-9951.61
1	66	520.00	-4364.66	-344.12	2.38	2.418e+04	-5.908e+04	-1.372e+04
1	66	533.33	-3246.86	2425.08	-133.73	7.293e+04	-6.358e+04	-6.217e+04
1	66	546.67	-3222.70	2604.17	-89.95	1.052e+05	-6.940e+04	-7.295e+04
1	66	560.00	-3138.41	2882.42	-18.96	1.128e+05	-7.512e+04	-8.245e+04
1	66	573.33	-1940.58	3092.07	333.33	7.742e+04	-5.635e+04	-9.563e+04
1	66	586.67	-1942.77	3140.85	311.44	7.651e+04	-5.553e+04	-7.675e+04
1	66	600.00	-1978.36	2930.00	298.69	7.500e+04	-5.572e+04	-6.611e+04
1	66	613.33	-1427.64	2850.45	506.71	6.926e+04	-3.288e+04	-6.543e+04
1	66	626.67	-1185.31	2147.68	441.04	4.524e+04	-3.141e+04	-6.013e+04
1	66	640.00	-915.35	1162.78	368.69	1.918e+04	-2.754e+04	-5.088e+04
1	66	653.33	-322.56	441.68	543.95	3904.02	-1.403e+04	-3.389e+04
1	66	666.67	-133.95	8.07	524.85	198.89	-8282.13	-1.800e+04
1	72	-113.70	-1.200e+05	2.836e+04	-854.12	-1.947e+07	-1.477e+05	2.102e+04
1	72	-55.00	-1.273e+05	2.777e+04	-854.12	-2.341e+07	-1.766e+05	2.293e+04
1	72	-25.00	-1.198e+05	2.170e+04	279.28	-1.980e+07	-1.502e+05	-4407.78
1	72	0.0	-1.223e+05	2.471e+04	205.61	-2.332e+07	-1.452e+05	-1.742e+04
1	72	40.00	-1.131e+05	2.324e+04	439.14	-2.099e+07	-1.243e+05	-2.263e+04
1	72	80.00	-1.075e+05	1.769e+04	-252.12	-2.038e+07	-1.341e+05	-2.737e+04
1	72	120.00	-1.005e+05	1.681e+04	-224.23	-1.699e+07	-1.512e+05	-5.054e+04
1	72	160.00	-9.501e+04	1.736e+04	-290.03	-1.575e+07	-1.578e+05	-5.997e+04
1	72	200.00	-8.797e+04	1.676e+04	-229.41	-1.392e+07	-1.714e+05	-7.085e+04
1	72	240.00	-8.166e+04	1.568e+04	-13.73	1.929e+06	-1.717e+05	-3.006e+04
1	72	270.00	-7.640e+04	1.364e+04	265.04	1.291e+06	-1.632e+05	-3.112e+04
1	72	280.00	-7.537e+04	1.281e+04	194.73	1.775e+06	-1.606e+05	-3.137e+04
1	72	320.00	-6.104e+04	1.259e+04	579.40	3.229e+06	-1.427e+05	-2.775e+04
1	72	333.33	-4.374e+04	1.574e+04	889.67	-1.425e+07	-1.159e+05	-6.514e+04
1	72	346.67	-4.297e+04	1.284e+04	896.55	-1.394e+07	-1.101e+05	-6.864e+04
1	72	360.00	-4.167e+04	1.069e+04	686.48	-1.387e+07	-1.052e+05	-7.328e+04
1	72	373.33	-3.743e+04	7292.14	289.84	-1.340e+07	-9.696e+04	-9.748e+04
1	72	386.67	-3.712e+04	6194.04	293.92	-1.262e+07	-9.752e+04	-1.051e+05
1	72	400.00	-3.670e+04	4958.74	301.90	-1.191e+07	-9.805e+04	-1.115e+05
1	72	413.33	-3.374e+04	3552.27	307.56	-1.097e+07	-1.044e+05	-1.189e+05
1	72	426.67	-3.257e+04	2446.43	307.18	-9.920e+06	-1.051e+05	-1.193e+05
1	72	440.00	-3.138e+04	1418.48	315.65	-8.922e+06	-1.057e+05	-1.191e+05
1	72	453.33	-2.727e+04	776.79	100.56	-7.611e+06	-1.339e+05	-1.325e+05
1	72	466.67	-2.449e+04	439.85	246.03	-6.153e+06	-1.335e+05	-1.255e+05
1	72	480.00	-2.159e+04	260.70	307.85	-4.845e+06	-1.309e+05	-1.088e+05
1	72	493.33	-3959.41	-1407.50	843.29	-2.309e+05	-9.129e+04	-7.672e+04
1	72	506.67	-3933.03	-1338.82	753.71	-1.253e+05	-8.281e+04	-7.630e+04
1	72	520.00	-3872.63	-1130.85	659.27	-3.675e+04	-7.423e+04	-7.664e+04
1	72	533.33	-2824.95	1707.39	1018.95	2.029e+04	-3.893e+04	-4.896e+04
1	72	546.67	-2830.37	1917.84	916.91	5.163e+04	-3.335e+04	-3.675e+04
1	72	560.00	-2819.13	2269.61	774.63	6.658e+04	-2.719e+04	-2.502e+04
1	72	573.33	-1827.77	2802.10	445.93	7.371e+04	-1.589e+04	-2.157e+04
1	72	586.67	-1854.55	2906.66	338.56	7.440e+04	-1.479e+04	-3.108e+04
1	72	600.00	-1919.33	2759.90	287.79	7.482e+04	-1.240e+04	-3.498e+04
1	72	613.33	-1343.10	2535.21	179.05	6.469e+04	-1.108e+04	-3.054e+04
1	72	626.67	-1133.90	1886.72	141.14	4.170e+04	-8716.79	-2.538e+04
1	72	640.00	-898.07	1119.56	102.00	1.690e+04	-6389.25	-1.983e+04
1	72	653.33	-267.88	309.74	122.71	3279.04	-4221.68	-1.127e+04
1	72	666.67	-134.69	-36.04	104.05	382.34	-2169.55	-5627.11
1	78	-113.70	-1.228e+05	2.393e+04	-872.18	-2.434e+07	2.047e+04	3.657e+04
1	78	-55.00	-1.301e+05	2.332e+04	-872.18	-2.827e+07	-5145.81	2.047e+04
1	78	-25.00	-1.217e+05	1.714e+04	140.91	-2.375e+07	-937.19	-2.031e+04
1	78	0.0	-1.248e+05	2.026e+04	183.06	-2.798e+07	8246.15	-3.074e+04
1	78	40.00	-1.150e+05	1.869e+04	449.64	-2.469e+07	1.963e+04	-3.413e+04
1	78	80.00	-1.095e+05	1.288e+04	-267.68	-2.359e+07	1.661e+04	-3.619e+04
1	78	120.00	-1.017e+05	1.192e+04	-120.17	-1.939e+07	8911.66	-5.477e+04
1	78	160.00	-9.535e+04	1.262e+04	-166.95	-1.701e+07	2480.31	-6.018e+04
1	78	200.00	-8.816e+04	1.193e+04	31.82	-1.443e+07	1095.30	-6.165e+04
1	78	240.00	-8.183e+04	1.114e+04	104.68	1.885e+06	7582.03	-7.370e+04
1	78	270.00	-7.645e+04	8417.76	358.05	1.377e+06	1.665e+04	-7.789e+04
1	78	280.00	-7.561e+04	7511.11	266.44	1.697e+06	2.032e+04	-7.771e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	78	320.00	-6.119e+04	7902.50	301.92	3.226e+06	3.525e+04	-3.289e+04
1	78	333.33	-4.443e+04	1.470e+04	532.62	-1.451e+07	4.989e+04	7.717e+04
1	78	346.67	-4.372e+04	1.187e+04	592.65	-1.414e+07	5.856e+04	1.034e+05
1	78	360.00	-4.250e+04	9771.56	228.23	-1.403e+07	6.679e+04	1.290e+05
1	78	373.33	-3.834e+04	7437.64	-582.68	-1.354e+07	7.473e+04	1.103e+05
1	78	386.67	-3.805e+04	6396.01	-518.28	-1.273e+07	7.190e+04	9.821e+04
1	78	400.00	-3.766e+04	5224.11	-470.33	-1.198e+07	6.908e+04	8.892e+04
1	78	413.33	-3.450e+04	4234.38	-697.32	-1.094e+07	6.781e+04	9.099e+04
1	78	426.67	-3.336e+04	3205.22	-651.27	-9.864e+06	6.562e+04	8.861e+04
1	78	440.00	-3.214e+04	2275.26	-608.52	-8.859e+06	6.343e+04	8.642e+04
1	78	453.33	-2.785e+04	1705.39	-1179.47	-7.561e+06	2.144e+04	8.016e+04
1	78	466.67	-2.498e+04	1327.62	-1188.37	-6.122e+06	2.263e+04	7.474e+04
1	78	480.00	-2.213e+04	1260.46	-1166.52	-4.790e+06	2.281e+04	6.654e+04
...								
1	141	666.67	-138.60	-59.00	-1.90	258.80	-0.75	-16.81
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.795e+05	4000.97	-3028.42	-4.260e+07	-3.596e+05	-4.396e+05
			-133.95	2.836e+04	2146.54	3.229e+06	1.452e+05	1.392e+05

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	12	-113.70	-1.370e+05	3235.24	75.71	-5.839e+06	-2.982e+04	7725.18
2	12	-55.00	-1.364e+05	3295.27	75.71	-7.038e+06	1.087e+04	3.142e+04
2	12	-25.00	-1.357e+05	1284.49	-386.61	-3.739e+06	-2816.46	6.094e+04
2	12	0.0	-1.482e+05	8293.43	-433.37	7.199e+06	-1.589e+04	5.829e+04
2	12	40.00	-1.518e+05	7830.42	-181.95	1.113e+07	-2.032e+04	2.599e+04
2	12	80.00	-1.527e+05	3848.93	830.88	1.100e+07	1.995e+04	-1576.29
2	12	120.00	-1.550e+05	3730.57	841.46	7.089e+06	5.573e+04	-3073.01
2	12	160.00	-1.580e+05	3667.82	884.77	7.296e+06	9.553e+04	2168.35
2	12	200.00	-1.608e+05	3592.73	428.21	5.848e+06	1.298e+05	-377.81
2	12	240.00	-1.602e+05	3578.84	309.54	6.000e+05	1.430e+05	1.680e+04
2	12	270.00	-1.555e+05	4930.76	-446.32	3.191e+04	1.358e+05	1.682e+04
2	12	320.00	-1.190e+05	2390.00	-2335.17	-4.805e+05	1536.80	1.916e+04
2	38	-113.70	-1.443e+05	-346.57	146.49	-5.449e+06	6.078e+04	4405.07
2	38	-55.00	-1.435e+05	-315.55	146.49	-6.976e+06	3.026e+04	3.092e+04
2	38	-25.00	-1.432e+05	-3539.89	-1059.65	-3.462e+06	-8137.70	6.142e+04
2	38	0.0	-1.564e+05	3791.23	-1057.04	7.947e+06	-4.033e+04	5.988e+04
2	38	40.00	-1.605e+05	3381.79	-565.23	1.208e+07	-6.148e+04	2.481e+04
2	38	80.00	-1.617e+05	-804.32	721.98	1.206e+07	-2.829e+04	-2531.94
2	38	120.00	-1.645e+05	-838.10	832.62	8.088e+06	7900.80	-5798.87
2	38	160.00	-1.680e+05	-801.18	982.52	8.480e+06	5.531e+04	4998.87
2	38	200.00	-1.712e+05	-759.51	596.60	7.011e+06	1.006e+05	2063.86
2	38	240.00	-1.708e+05	-644.86	747.86	1.316e+06	1.316e+05	9383.59
2	38	270.00	-1.660e+05	928.56	159.80	4.638e+05	1.454e+05	1.082e+04
2	38	320.00	-1.259e+05	-1760.95	-2399.43	-5.551e+05	2264.58	1.528e+04
2	45	-113.70	-9.312e+04	-329.05	193.86	-3.925e+06	1.318e+05	4063.25
2	45	-55.00	-9.244e+04	-311.88	193.86	-4.948e+06	3.946e+04	2.252e+04
2	45	-25.00	-9.159e+04	-2432.08	-1330.72	-2.559e+06	-9300.67	4.334e+04
2	45	0.0	-1.003e+05	2440.31	-1346.51	5.045e+06	-5.051e+04	4.249e+04
2	45	40.00	-1.023e+05	2154.56	-811.77	7.848e+06	-8.290e+04	1.871e+04
2	45	80.00	-1.027e+05	-582.09	301.07	7.835e+06	-7.103e+04	251.40
2	45	120.00	-1.039e+05	-603.18	474.06	5.288e+06	-4.972e+04	-1858.54
2	45	160.00	-1.056e+05	-575.97	682.07	5.476e+06	-1.408e+04	6103.70
2	45	200.00	-1.073e+05	-543.00	522.63	4.487e+06	2.341e+04	2810.72
2	45	240.00	-1.065e+05	-456.15	842.00	9.161e+05	5.838e+04	7415.15
2	45	270.00	-1.029e+05	567.16	676.30	3.743e+05	8.574e+04	8224.90
2	45	320.00	-7.719e+04	-1131.73	-1301.36	-3.798e+05	2165.74	1.155e+04
2	52	-113.70	-9.612e+04	2.271e+04	-282.88	-6.441e+06	3.006e+04	3.741e+04
2	52	-55.00	-9.557e+04	2.274e+04	-282.88	-7.351e+06	5.851e+04	5.496e+04
2	52	-25.00	-9.473e+04	2.721e+04	-401.97	-5.009e+06	3.288e+04	7.755e+04
2	52	0.0	-1.023e+05	3.216e+04	-637.43	1.491e+06	2.367e+04	7.312e+04
2	52	40.00	-1.042e+05	3.178e+04	-545.02	4.457e+06	5525.98	5.770e+04
2	52	80.00	-1.044e+05	2.941e+04	164.25	4.944e+06	2.096e+04	3.613e+04
2	52	120.00	-1.061e+05	2.927e+04	297.09	2.026e+06	2.718e+04	5.429e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	52	160.00	-1.088e+05	2.917e+04	222.12	2.307e+06	4.553e+04	4.539e+04
2	52	200.00	-1.116e+05	2.916e+04	-332.20	2.961e+05	4.987e+04	2.891e+04
2	52	240.00	-1.107e+05	2.924e+04	-787.29	-2.877e+06	2.225e+04	4.943e+04
2	52	270.00	-1.074e+05	3.024e+04	-2267.66	-2.657e+06	-3.681e+04	5.163e+04
2	52	320.00	-8.206e+04	2.248e+04	1428.70	-1.692e+06	-7.955e+04	5.203e+04
2	55	-113.70	-1.012e+05	2.503e+04	199.35	-6.590e+06	-3.992e+04	4.101e+04
2	55	-55.00	-1.007e+05	2.505e+04	199.35	-7.491e+06	-1.038e+04	5.700e+04
2	55	-25.00	-9.885e+04	3.065e+04	114.63	-4.771e+06	-6577.27	7.497e+04
2	55	0.0	-1.064e+05	3.569e+04	-249.10	1.738e+06	-1.524e+04	7.001e+04
2	55	40.00	-1.078e+05	3.502e+04	-228.58	4.932e+06	-1.567e+04	5.120e+04
2	55	80.00	-1.080e+05	3.240e+04	531.00	5.007e+06	1.218e+04	2.577e+04
2	55	120.00	-1.088e+05	3.217e+04	544.88	1.766e+06	3.172e+04	4.622e+04
2	55	160.00	-1.107e+05	3.200e+04	528.06	1.419e+06	5.866e+04	2.326e+04
2	55	200.00	-1.116e+05	3.194e+04	128.61	-8.379e+05	7.983e+04	2.000e+04
2	55	240.00	-1.103e+05	3.202e+04	-36.43	-3.831e+06	8.038e+04	5.469e+04
2	55	270.00	-1.070e+05	3.233e+04	-535.06	-3.348e+06	6.735e+04	5.957e+04
2	55	320.00	-8.237e+04	2.548e+04	-1134.71	-1.993e+06	-1.601e+04	5.657e+04
2	72	-113.70	-8.948e+04	7077.60	-621.25	-5.096e+06	7.457e+04	1.373e+04
2	72	-55.00	-8.894e+04	7103.97	-621.25	-6.090e+06	1.020e+05	3.300e+04
2	72	-25.00	-8.903e+04	6739.18	-918.23	-3.711e+06	5.779e+04	5.704e+04
2	72	0.0	-9.743e+04	1.168e+04	-895.50	3.576e+06	4.821e+04	5.624e+04
2	72	40.00	-9.995e+04	1.164e+04	-723.09	6.439e+06	2.001e+04	3.761e+04
2	72	80.00	-1.009e+05	8951.74	27.07	6.635e+06	2.900e+04	1.977e+04
2	72	120.00	-1.034e+05	8909.84	185.19	4.197e+06	3.367e+04	2.288e+04
2	72	160.00	-1.064e+05	8901.49	215.06	5.023e+06	4.873e+04	3.645e+04
2	72	200.00	-1.116e+05	8911.18	-310.04	4.217e+06	5.183e+04	2.228e+04
2	72	240.00	-1.110e+05	8983.16	-980.62	5.122e+05	2.206e+04	1.721e+04
2	72	270.00	-1.077e+05	1.086e+04	-2619.35	-2.735e+04	-4.374e+04	1.941e+04
2	72	320.00	-8.180e+04	4949.44	1810.95	-5.991e+05	-8.706e+04	2.590e+04
2	77	-113.70	-1.041e+05	-8688.33	696.34	-2.651e+06	-1.118e+05	-7266.00
2	77	-55.00	-1.036e+05	-8663.49	696.34	-3.710e+06	-8.241e+04	8312.08
2	77	-25.00	-1.021e+05	-1.293e+04	265.96	-1.399e+06	-6.226e+04	2.650e+04
2	77	0.0	-1.119e+05	-7692.95	280.33	7.188e+06	-7.108e+04	2.528e+04
2	77	40.00	-1.140e+05	-8220.69	515.59	9.962e+06	-4.939e+04	-4411.35
2	77	80.00	-1.135e+05	-1.130e+04	1165.94	9.635e+06	-183.30	-2.453e+04
2	77	120.00	-1.136e+05	-1.129e+04	1011.30	6.627e+06	4.583e+04	-3.111e+04
2	77	160.00	-1.142e+05	-1.122e+04	1020.80	6.156e+06	8.776e+04	-3.161e+04
2	77	200.00	-1.125e+05	-1.118e+04	909.40	4.926e+06	1.338e+05	-2.046e+04
2	77	240.00	-1.117e+05	-1.112e+04	1532.98	1.188e+06	1.842e+05	-1301.96
2	77	270.00	-1.277e+05	-1.097e+04	2052.58	6.889e+05	2.432e+05	-2997.39
2	77	320.00	-8.279e+04	-8471.48	-5213.95	-4.475e+04	8.650e+04	-5237.85
2	84	-113.70	-9.633e+04	1.628e+04	-189.95	-5.732e+06	1.615e+04	2.799e+04
2	84	-55.00	-9.578e+04	1.631e+04	-189.95	-6.673e+06	4.456e+04	4.550e+04
2	84	-25.00	-9.498e+04	1.891e+04	-376.39	-4.314e+06	2.299e+04	6.764e+04
2	84	0.0	-1.029e+05	2.391e+04	-543.56	2.580e+06	1.376e+04	6.411e+04
2	84	40.00	-1.050e+05	2.355e+04	-424.30	5.509e+06	-220.02	4.620e+04
2	84	80.00	-1.052e+05	2.104e+04	286.05	5.824e+06	1.906e+04	2.530e+04
2	84	120.00	-1.068e+05	2.093e+04	381.63	2.955e+06	3.066e+04	3.789e+04
2	84	160.00	-1.092e+05	2.086e+04	334.45	3.207e+06	5.183e+04	3.324e+04
2	84	200.00	-1.117e+05	2.086e+04	-153.65	1.468e+06	6.188e+04	2.114e+04
2	84	240.00	-1.109e+05	2.093e+04	-497.89	-1.860e+06	4.487e+04	3.795e+04
2	84	270.00	-1.075e+05	2.195e+04	-1710.48	-1.840e+06	1367.07	3.985e+04
2	84	320.00	-8.213e+04	1.582e+04	554.32	-1.315e+06	-5.730e+04	4.079e+04
2	87	-113.70	-1.000e+05	1.795e+04	157.43	-5.838e+06	-3.431e+04	3.057e+04
2	87	-55.00	-9.946e+04	1.798e+04	157.43	-6.772e+06	-5112.42	4.696e+04
2	87	-25.00	-9.793e+04	2.140e+04	-4.64	-4.141e+06	-5468.07	6.577e+04
2	87	0.0	-1.059e+05	2.645e+04	-264.03	2.765e+06	-1.430e+04	6.187e+04
2	87	40.00	-1.076e+05	2.589e+04	-196.42	5.856e+06	-1.539e+04	4.156e+04
2	87	80.00	-1.078e+05	2.320e+04	549.47	5.877e+06	1.280e+04	1.793e+04
2	87	120.00	-1.087e+05	2.302e+04	559.97	2.775e+06	3.399e+04	3.221e+04
2	87	160.00	-1.106e+05	2.291e+04	554.30	2.574e+06	6.137e+04	1.733e+04
2	87	200.00	-1.117e+05	2.287e+04	177.35	6.539e+05	8.353e+04	1.471e+04
2	87	240.00	-1.106e+05	2.294e+04	41.25	-2.543e+06	8.674e+04	4.165e+04
2	87	270.00	-1.072e+05	2.344e+04	-466.83	-2.335e+06	7.631e+04	4.548e+04
2	87	320.00	-8.235e+04	1.797e+04	-1289.11	-1.533e+06	-1.159e+04	4.397e+04
2	104	-113.70	-9.157e+04	4995.42	-434.71	-4.756e+06	4.836e+04	1.095e+04
2	104	-55.00	-9.103e+04	5021.59	-434.71	-5.758e+06	7.605e+04	2.972e+04
2	104	-25.00	-9.090e+04	4147.80	-748.52	-3.376e+06	4.101e+04	5.291e+04
2	104	0.0	-9.949e+04	9133.55	-729.91	4.083e+06	3.151e+04	5.202e+04
2	104	40.00	-1.019e+05	9016.80	-552.46	6.938e+06	1.010e+04	3.173e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	104	80.00	-1.027e+05	6280.97	187.66	7.041e+06	2.478e+04	1.352e+04
2	104	120.00	-1.048e+05	6243.07	300.99	4.515e+06	3.520e+04	1.525e+04
2	104	160.00	-1.075e+05	6242.95	328.77	5.162e+06	5.398e+04	2.687e+04
2	104	200.00	-1.118e+05	6253.07	-138.96	4.291e+06	6.310e+04	1.640e+04
2	104	240.00	-1.111e+05	6325.63	-641.42	5.792e+05	4.451e+04	1.474e+04
2	104	270.00	-1.078e+05	7972.51	-1969.78	5.184e+04	-3946.31	1.665e+04
2	104	320.00	-8.194e+04	3208.12	837.78	-5.274e+05	-6.290e+04	2.191e+04
2	109	-113.70	-1.021e+05	-6322.88	517.11	-3.021e+06	-8.629e+04	-4251.13
2	109	-55.00	-1.015e+05	-6297.74	517.11	-4.068e+06	-5.725e+04	1.179e+04
2	109	-25.00	-1.003e+05	-9973.21	104.05	-1.724e+06	-4.573e+04	3.068e+04
2	109	0.0	-1.099e+05	-4781.75	118.19	6.680e+06	-5.467e+04	2.943e+04
2	109	40.00	-1.120e+05	-5239.13	339.88	9.475e+06	-3.967e+04	1308.43
2	109	80.00	-1.118e+05	-8260.66	1007.22	9.210e+06	3837.47	-1.853e+04
2	109	120.00	-1.122e+05	-8262.22	896.15	6.283e+06	4.423e+04	-2.384e+04
2	109	160.00	-1.131e+05	-8205.86	911.53	5.979e+06	8.243e+04	-2.253e+04
2	109	200.00	-1.123e+05	-8169.62	745.89	4.811e+06	1.227e+05	-1.457e+04
2	109	240.00	-1.116e+05	-8113.80	1188.47	1.081e+06	1.621e+05	1264.51
2	109	270.00	-1.077e+05	-7753.57	1422.91	5.781e+05	2.043e+05	231.61
2	109	320.00	-8.264e+04	-6434.53	-4263.72	-1.274e+05	6.316e+04	-787.09
2	117	-113.70	-1.022e+05	2135.84	58.45	-4.316e+06	-2.074e+04	5491.49
2	117	-55.00	-1.017e+05	2179.73	58.45	-5.227e+06	8799.24	2.311e+04
2	117	-25.00	-1.010e+05	607.00	-294.77	-2.770e+06	-1618.95	4.509e+04
2	117	0.0	-1.103e+05	5807.48	-325.42	5.354e+06	-1.144e+04	4.318e+04
2	117	40.00	-1.128e+05	5462.69	-135.94	8.282e+06	-1.476e+04	1.911e+04
2	117	80.00	-1.133e+05	2518.30	617.49	8.189e+06	1.514e+04	-1342.84
2	117	120.00	-1.148e+05	2433.62	623.83	5.291e+06	4.169e+04	-2518.35
2	117	160.00	-1.169e+05	2392.80	656.80	5.448e+06	7.126e+04	1576.18
2	117	200.00	-1.188e+05	2345.21	318.17	4.376e+06	9.683e+04	-246.57
2	117	240.00	-1.182e+05	2342.33	239.89	4.990e+05	1.069e+05	1.211e+04
2	117	270.00	-1.146e+05	3344.22	-317.12	7.347e+04	1.020e+05	1.220e+04
2	117	320.00	-8.692e+04	1481.74	-1750.76	-3.512e+05	1147.56	1.400e+04
2	130	-113.70	-1.071e+05	-249.13	105.65	-4.057e+06	3.966e+04	3284.19
2	130	-55.00	-1.065e+05	-224.57	105.65	-5.186e+06	2.173e+04	2.279e+04
2	130	-25.00	-1.060e+05	-2605.38	-743.42	-2.587e+06	-5164.18	4.542e+04
2	130	0.0	-1.157e+05	2809.77	-741.16	5.852e+06	-2.773e+04	4.424e+04
2	130	40.00	-1.185e+05	2500.68	-391.43	8.913e+06	-4.220e+04	1.833e+04
2	130	80.00	-1.193e+05	-580.02	544.92	8.896e+06	-1.702e+04	-1975.03
2	130	120.00	-1.212e+05	-608.32	617.95	5.957e+06	9811.16	-4327.48
2	130	160.00	-1.236e+05	-582.70	722.00	6.236e+06	4.445e+04	3468.45
2	130	200.00	-1.258e+05	-552.42	430.43	5.152e+06	7.737e+04	1386.50
2	130	240.00	-1.254e+05	-469.59	532.12	9.762e+05	9.930e+04	7176.28
2	130	270.00	-1.217e+05	679.95	86.94	3.612e+05	1.084e+05	8201.84
2	130	320.00	-9.151e+04	-1281.66	-1793.75	-4.009e+05	1632.98	1.142e+04
2	132	-113.70	-9.640e+04	-365.10	144.48	-4.017e+06	7.942e+04	4021.97
2	132	-55.00	-9.580e+04	-345.55	144.48	-5.066e+06	2.866e+04	2.259e+04
2	132	-25.00	-9.512e+04	-2548.93	-995.91	-2.605e+06	-7713.04	4.392e+04
2	132	0.0	-1.042e+05	2547.00	-1001.85	5.326e+06	-3.841e+04	4.293e+04
2	132	40.00	-1.066e+05	2258.50	-579.03	8.216e+06	-6.106e+04	1.827e+04
2	132	80.00	-1.070e+05	-617.98	417.30	8.156e+06	-4.261e+04	-873.27
2	132	120.00	-1.084e+05	-638.46	533.19	5.468e+06	-1.915e+04	-3015.39
2	132	160.00	-1.103e+05	-611.46	679.96	5.649e+06	1.488e+04	4643.44
2	132	200.00	-1.122e+05	-583.61	461.57	4.617e+06	4.879e+04	2275.96
2	132	240.00	-1.115e+05	-506.03	651.33	8.788e+05	7.586e+04	7713.36
2	132	270.00	-1.079e+05	537.18	352.58	3.277e+05	9.296e+04	8623.01
2	132	320.00	-8.228e+04	-1253.59	-1485.70	-3.818e+05	1808.58	1.160e+04
2	135	-113.70	-9.894e+04	-321.15	49.59	-3.930e+06	-1.994e+04	3464.21
2	135	-55.00	-9.838e+04	-294.93	49.59	-4.970e+06	8608.53	2.109e+04
2	135	-25.00	-9.771e+04	-2517.26	-316.39	-2.529e+06	-2568.74	4.226e+04
2	135	0.0	-1.069e+05	2636.86	-305.16	5.492e+06	-1.192e+04	4.103e+04
2	135	40.00	-1.093e+05	2345.25	-112.10	8.369e+06	-1.490e+04	1.644e+04
2	135	80.00	-1.097e+05	-571.15	611.33	8.261e+06	1.471e+04	-2895.06
2	135	120.00	-1.111e+05	-598.40	611.71	5.477e+06	4.084e+04	-4893.98
2	135	160.00	-1.130e+05	-577.04	638.99	5.657e+06	6.992e+04	1550.74
2	135	200.00	-1.148e+05	-557.81	318.23	4.621e+06	9.538e+04	831.98
2	135	240.00	-1.141e+05	-499.07	271.85	8.117e+05	1.064e+05	7814.31
2	135	270.00	-1.105e+05	515.61	-257.41	2.889e+05	1.038e+05	8773.00
2	135	320.00	-8.414e+04	-1291.66	-1782.21	-3.486e+05	1072.34	1.103e+04
2	136	-113.70	-9.685e+04	136.88	51.60	-3.984e+06	-2.009e+04	4003.24
2	136	-55.00	-9.632e+04	165.96	51.60	-4.975e+06	8337.06	2.126e+04
2	136	-25.00	-9.558e+04	-1880.30	-306.71	-2.573e+06	-2522.23	4.220e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	136	0.0	-1.046e+05	3199.69	-304.21	5.336e+06	-1.185e+04	4.086e+04
2	136	40.00	-1.069e+05	2902.91	-117.19	8.173e+06	-1.499e+04	1.674e+04
2	136	80.00	-1.072e+05	33.94	598.37	8.051e+06	1.403e+04	-2511.46
2	136	120.00	-1.085e+05	-3.35	599.00	5.304e+06	3.959e+04	-4276.30
2	136	160.00	-1.103e+05	5.32	625.97	5.451e+06	6.803e+04	1527.75
2	136	200.00	-1.120e+05	9.50	310.81	4.422e+06	9.284e+04	694.01
2	136	240.00	-1.113e+05	52.25	256.22	7.148e+05	1.033e+05	8815.73
2	136	270.00	-1.077e+05	1031.12	-263.17	2.324e+05	1.003e+05	9574.78
2	136	320.00	-8.230e+04	-740.83	-1722.01	-3.400e+05	1053.23	1.159e+04
2	139	-113.70	-9.675e+04	-347.93	68.72	-3.934e+06	-64.83	3663.44
2	139	-55.00	-9.619e+04	-323.45	68.72	-4.961e+06	1.243e+04	2.125e+04
2	139	-25.00	-9.548e+04	-2512.74	-448.95	-2.542e+06	-3683.70	4.222e+04
2	139	0.0	-1.046e+05	2578.30	-441.38	5.380e+06	-1.723e+04	4.105e+04
2	139	40.00	-1.068e+05	2290.68	-205.64	8.228e+06	-2.420e+04	1.667e+04
2	139	80.00	-1.072e+05	-585.02	563.82	8.119e+06	2782.47	-2441.21
2	139	120.00	-1.085e+05	-610.03	586.72	5.391e+06	2.798e+04	-4423.18
2	139	160.00	-1.103e+05	-587.69	637.01	5.554e+06	5.759e+04	2156.88
2	139	200.00	-1.121e+05	-567.76	342.34	4.528e+06	8.433e+04	1173.43
2	139	240.00	-1.114e+05	-507.49	342.07	8.036e+05	9.836e+04	7891.27
2	139	270.00	-1.078e+05	492.42	-131.64	2.882e+05	9.968e+04	8823.77
2	139	320.00	-8.229e+04	-1282.99	-1689.91	-3.496e+05	1198.83	1.113e+04
2	140	-113.70	-9.683e+04	-342.91	49.78	-3.913e+06	-1.994e+04	3575.32
2	140	-55.00	-9.629e+04	-317.20	49.78	-4.935e+06	8370.89	2.092e+04
2	140	-25.00	-9.557e+04	-2502.73	-312.20	-2.526e+06	-2675.80	4.179e+04
2	140	0.0	-1.046e+05	2587.07	-301.26	5.393e+06	-1.194e+04	4.058e+04
2	140	40.00	-1.069e+05	2299.66	-112.29	8.231e+06	-1.498e+04	1.627e+04
2	140	80.00	-1.072e+05	-575.82	600.46	8.110e+06	1.413e+04	-2831.98
2	140	120.00	-1.085e+05	-601.97	600.11	5.372e+06	3.976e+04	-4773.13
2	140	160.00	-1.103e+05	-580.79	626.28	5.530e+06	6.827e+04	1536.56
2	140	200.00	-1.120e+05	-562.84	312.53	4.505e+06	9.322e+04	899.10
2	140	240.00	-1.113e+05	-506.89	264.76	7.848e+05	1.040e+05	7938.45
2	140	270.00	-1.077e+05	482.20	-252.70	2.783e+05	1.014e+05	8876.36
2	140	320.00	-8.230e+04	-1289.37	-1741.01	-3.416e+05	1046.46	1.101e+04
2	141	-113.70	-9.683e+04	-342.91	49.78	-3.913e+06	-1.994e+04	3575.32
2	141	-55.00	-9.629e+04	-317.20	49.78	-4.935e+06	8370.89	2.092e+04
2	141	-25.00	-9.557e+04	-2502.73	-312.20	-2.526e+06	-2675.80	4.179e+04
2	141	0.0	-1.046e+05	2587.07	-301.26	5.393e+06	-1.194e+04	4.058e+04
2	141	40.00	-1.069e+05	2299.66	-112.29	8.231e+06	-1.498e+04	1.627e+04
2	141	80.00	-1.072e+05	-575.82	600.46	8.110e+06	1.413e+04	-2831.98
2	141	120.00	-1.085e+05	-601.97	600.11	5.372e+06	3.976e+04	-4773.13
2	141	160.00	-1.103e+05	-580.79	626.28	5.530e+06	6.827e+04	1536.56
2	141	200.00	-1.120e+05	-562.84	312.53	4.505e+06	9.322e+04	899.10
2	141	240.00	-1.113e+05	-506.89	264.76	7.848e+05	1.040e+05	7938.45
2	141	270.00	-1.077e+05	482.20	-252.70	2.783e+05	1.014e+05	8876.36
2	141	320.00	-8.230e+04	-1289.37	-1741.01	-3.416e+05	1046.46	1.101e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.712e+05	-1.293e+04	-5213.95	-7.491e+06	-1.118e+05	-3.161e+04
			-7.719e+04	3.569e+04	2052.58	1.208e+07	2.432e+05	7.755e+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	8	-113.70	-1.845e+05	5060.73	790.35	-2.175e+07	-1.708e+04	-9.528e+04
3	8	-55.00	-1.930e+05	4004.86	790.35	-2.278e+07	3.691e+04	-6.673e+04
3	8	0.0	-1.875e+05	1446.09	459.39	-2.142e+07	5.711e+04	-2.942e+04
3	8	40.00	-1.766e+05	767.40	332.37	-1.921e+07	7.151e+04	-8957.03
3	8	80.00	-1.677e+05	858.55	313.44	-7.992e+06	8.823e+04	4168.93
3	8	120.00	-1.549e+05	677.92	445.88	-1.150e+07	1.060e+05	7078.15
3	8	160.00	-1.442e+05	1312.96	291.28	-6.846e+06	1.210e+05	2.264e+04
3	8	200.00	-1.323e+05	1035.58	27.56	-3.120e+06	1.253e+05	4.169e+04
3	8	240.00	-1.214e+05	266.31	-372.86	-9.767e+05	1.130e+05	5.908e+04
3	8	270.00	-1.126e+05	-50.45	-795.52	-4.031e+05	9.163e+04	6.536e+04
3	8	280.00	-1.111e+05	-44.53	-861.74	-1.335e+05	8.381e+04	6.741e+04
3	8	320.00	-8.862e+04	1603.36	-1193.39	2.073e+06	3.751e+04	5.561e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	8	333.33	-6.408e+04	1.344e+04	-349.86	-2.222e+07	2.980e+04	2.013e+04
3	8	346.67	-6.351e+04	1.025e+04	-290.23	-2.144e+07	2.469e+04	7094.53
3	8	360.00	-6.206e+04	7776.97	-169.07	-2.111e+07	1.795e+04	-5362.35
3	8	373.33	-5.613e+04	4410.68	35.32	-2.069e+07	1.705e+04	628.13
3	8	386.67	-5.545e+04	3239.93	-3.48	-1.959e+07	1.697e+04	2514.01
3	8	400.00	-5.484e+04	1496.78	-16.24	-1.847e+07	1.674e+04	3146.98
3	8	413.33	-5.128e+04	275.74	-1.22	-1.698e+07	1.665e+04	3161.21
3	8	426.67	-4.956e+04	-1090.37	-5.96	-1.537e+07	1.647e+04	2526.50
3	8	440.00	-4.778e+04	-2374.86	-2.04	-1.385e+07	1.626e+04	1454.91
3	8	453.33	-4.049e+04	-1592.21	88.71	-1.141e+07	1.650e+04	214.51
3	8	466.67	-3.631e+04	-2076.43	116.51	-9.241e+06	1.680e+04	461.14
3	8	480.00	-3.211e+04	-2251.35	118.80	-7.262e+06	1.876e+04	4280.29
3	8	493.33	-5945.00	-2999.82	-63.61	-2.001e+05	2.050e+04	1.050e+04
3	8	506.67	-5919.61	-2731.05	-60.55	-4.940e+04	1.955e+04	1.417e+04
3	8	520.00	-5846.92	-2282.17	-53.51	7.568e+04	1.852e+04	1.672e+04
3	8	533.33	-4733.74	3293.58	-126.27	9.813e+04	1.699e+04	1.672e+04
3	8	546.67	-4750.19	3666.04	-100.54	1.494e+05	1.533e+04	1.666e+04
3	8	560.00	-4734.56	4223.24	-80.21	1.750e+05	1.369e+04	1.624e+04
3	8	573.33	-3157.26	4527.90	-75.17	1.218e+05	1.154e+04	1.571e+04
3	8	586.67	-3215.06	4659.21	-62.45	1.306e+05	1.042e+04	1.704e+04
3	8	600.00	-3315.07	4424.58	-47.38	1.381e+05	9248.48	1.696e+04
3	8	613.33	-2337.27	3770.15	-86.23	1.121e+05	7833.70	1.599e+04
3	8	626.67	-1882.98	2835.35	-53.15	6.947e+04	6365.09	1.414e+04
3	8	640.00	-1388.15	1509.34	-29.20	2.439e+04	4920.23	1.187e+04
3	8	653.33	-451.32	400.58	-72.64	4389.32	3187.03	7942.83
3	8	666.67	-245.36	-80.06	-25.16	622.10	1595.22	3944.01
3	13	-113.70	-1.249e+05	2605.20	220.02	-1.408e+07	-9.960e+04	-5.617e+04
3	13	-55.00	-1.307e+05	1879.55	220.02	-1.478e+07	-6583.28	-3.035e+04
3	13	0.0	-1.265e+05	145.85	847.23	-1.390e+07	4.303e+04	-5502.74
3	13	40.00	-1.187e+05	-273.11	669.28	-1.247e+07	7.079e+04	4047.90
3	13	80.00	-1.126e+05	-221.59	443.24	-5.028e+06	9.501e+04	7348.89
3	13	120.00	-1.038e+05	-336.94	528.38	-7.499e+06	1.146e+05	1.375e+04
3	13	160.00	-9.636e+04	71.02	242.14	-4.509e+06	1.266e+05	2.001e+04
3	13	200.00	-8.813e+04	-96.28	-66.02	-2.117e+06	1.261e+05	2.895e+04
3	13	240.00	-8.056e+04	-569.24	-449.22	-7.357e+05	1.101e+05	3.708e+04
3	13	270.00	-7.428e+04	-719.03	-819.47	-3.614e+05	8.748e+04	3.923e+04
3	13	280.00	-7.326e+04	-700.14	-863.43	-1.690e+05	7.953e+04	3.969e+04
3	13	320.00	-5.814e+04	580.05	-1050.35	1.246e+06	3.754e+04	2.753e+04
3	13	333.33	-4.197e+04	8715.80	-482.72	-1.467e+07	3.021e+04	-4797.56
3	13	346.67	-4.163e+04	6736.72	-416.10	-1.415e+07	2.300e+04	-1.742e+04
3	13	360.00	-4.077e+04	5166.40	-256.02	-1.389e+07	1.387e+04	-3.035e+04
3	13	373.33	-3.687e+04	3042.05	-36.90	-1.354e+07	1.200e+04	-1.824e+04
3	13	386.67	-3.646e+04	2237.52	-92.58	-1.280e+07	1.087e+04	-1.355e+04
3	13	400.00	-3.608e+04	1110.15	-106.53	-1.206e+07	9500.36	-1.157e+04
3	13	413.33	-3.355e+04	328.71	-162.28	-1.107e+07	7587.89	-1.006e+04
3	13	426.67	-3.245e+04	-553.93	-162.67	-1.002e+07	5260.92	-1.036e+04
3	13	440.00	-3.131e+04	-1390.36	-149.95	-9.022e+06	2914.23	-1.164e+04
3	13	453.33	-2.640e+04	-902.53	-101.97	-7.423e+06	-420.49	-1.307e+04
3	13	466.67	-2.370e+04	-1221.96	-50.03	-6.020e+06	-3637.38	-1.238e+04
3	13	480.00	-2.099e+04	-1357.36	-47.42	-4.735e+06	-3600.07	-4695.02
3	13	493.33	-3924.38	-1847.81	103.43	-1.632e+05	-2753.58	394.48
3	13	506.67	-3922.37	-1682.11	95.26	-6.109e+04	-1381.43	853.80
3	13	520.00	-3893.48	-1403.78	99.49	2.556e+04	-157.53	-762.47
3	13	533.33	-3048.13	2174.68	-37.34	4.813e+04	403.91	937.49
3	13	546.67	-3072.83	2407.38	-13.84	8.384e+04	595.96	27.51
3	13	560.00	-3077.42	2750.66	6.27	1.033e+05	798.37	-1662.29
3	13	573.33	-1973.64	2923.53	-5.21	7.217e+04	304.36	-1401.39
3	13	586.67	-2018.94	2993.40	0.46	7.807e+04	787.68	473.58
3	13	600.00	-2100.40	2832.03	10.65	8.453e+04	1218.98	788.11
3	13	613.33	-1427.89	2416.42	-27.76	6.998e+04	1304.44	1885.06
3	13	626.67	-1151.47	1812.48	-13.29	4.299e+04	1193.47	2063.86
3	13	640.00	-852.97	955.40	-3.73	1.465e+04	1093.56	1929.14
3	13	653.33	-252.96	254.76	-22.16	2576.73	759.99	1691.86
3	13	666.67	-136.91	-51.22	-8.27	298.87	381.69	943.43
3	28	-113.70	-1.837e+05	4299.26	1640.70	-2.173e+07	1.189e+05	-9.769e+04
3	28	-55.00	-1.921e+05	3213.32	1640.70	-2.273e+07	1.088e+05	-7.949e+04
3	28	0.0	-1.867e+05	789.76	-158.71	-2.138e+07	8.460e+04	-4.523e+04
3	28	40.00	-1.758e+05	122.31	-300.75	-1.920e+07	7.485e+04	-2.245e+04
3	28	80.00	-1.670e+05	230.83	-43.93	-8.088e+06	7.290e+04	-4487.84
3	28	120.00	-1.543e+05	72.13	100.31	-1.166e+07	7.741e+04	-7678.25



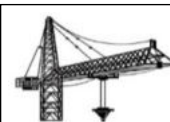
M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	28	160.00	-1.437e+05	734.50	129.73	-7.107e+06	8.528e+04	1.076e+04
3	28	200.00	-1.319e+05	490.34	19.89	-3.460e+06	8.828e+04	3.209e+04
3	28	240.00	-1.211e+05	-233.94	-226.43	-1.345e+06	8.032e+04	5.164e+04
3	28	270.00	-1.122e+05	-515.62	-507.27	-7.494e+05	6.604e+04	5.955e+04
3	28	280.00	-1.107e+05	-488.78	-560.83	-4.773e+05	6.056e+04	6.243e+04
3	28	320.00	-8.818e+04	1069.46	-894.23	1.801e+06	2.484e+04	5.654e+04
3	28	333.33	-6.363e+04	1.285e+04	-61.39	-2.222e+07	2.004e+04	3.543e+04
3	28	346.67	-6.312e+04	9694.44	-42.66	-2.144e+07	1.939e+04	2.909e+04
3	28	360.00	-6.175e+04	7215.48	-32.69	-2.109e+07	1.843e+04	2.392e+04
3	28	373.33	-5.575e+04	3843.99	34.32	-2.068e+07	1.848e+04	1.934e+04
3	28	386.67	-5.508e+04	2724.42	39.99	-1.960e+07	1.884e+04	1.630e+04
3	28	400.00	-5.451e+04	968.81	39.57	-1.849e+07	1.924e+04	1.416e+04
3	28	413.33	-5.098e+04	-231.18	98.65	-1.700e+07	2.025e+04	1.144e+04
3	28	426.67	-4.929e+04	-1589.43	100.66	-1.540e+07	2.152e+04	9602.87
3	28	440.00	-4.753e+04	-2864.20	100.19	-1.389e+07	2.281e+04	8209.18
3	28	453.33	-4.031e+04	-2019.43	178.19	-1.142e+07	2.539e+04	6549.54
3	28	466.67	-3.616e+04	-2480.03	181.86	-9.254e+06	2.797e+04	5661.31
3	28	480.00	-3.196e+04	-2609.58	184.75	-7.276e+06	3.045e+04	4750.73
3	28	493.33	-5831.99	-3320.10	-232.06	-2.255e+05	3.170e+04	8616.01
3	28	506.67	-5813.72	-3029.18	-220.57	-7.097e+04	2.888e+04	1.341e+04
3	28	520.00	-5746.80	-2556.78	-213.39	5.787e+04	2.607e+04	1.839e+04
3	28	533.33	-4657.82	3059.97	-180.86	8.126e+04	2.312e+04	1.668e+04
3	28	546.67	-4683.64	3458.24	-163.08	1.360e+05	2.030e+04	1.724e+04
3	28	560.00	-4681.48	4051.93	-149.08	1.657e+05	1.752e+04	1.806e+04
3	28	573.33	-3140.36	4420.42	-96.53	1.183e+05	1.459e+04	1.733e+04
3	28	586.67	-3206.00	4593.23	-93.27	1.292e+05	1.278e+04	1.897e+04
3	28	600.00	-3304.10	4396.78	-83.71	1.370e+05	1.090e+04	1.940e+04
3	28	613.33	-2334.04	3758.74	-95.43	1.117e+05	9063.26	1.801e+04
3	28	626.67	-1883.31	2835.64	-65.66	6.948e+04	7252.43	1.593e+04
3	28	640.00	-1389.49	1515.92	-41.82	2.450e+04	5454.36	1.339e+04
3	28	653.33	-452.63	405.48	-79.33	4464.85	3510.57	8782.51
3	28	666.67	-246.11	-77.69	-27.64	651.01	1751.93	4320.86
3	38	-113.70	-1.844e+05	7065.98	1744.98	-2.061e+07	1.200e+05	-9.001e+04
3	38	-55.00	-1.929e+05	6124.03	1744.98	-2.178e+07	1.150e+05	-7.023e+04
3	38	0.0	-1.875e+05	3774.99	-81.22	-2.055e+07	9.419e+04	-3.776e+04
3	38	40.00	-1.766e+05	3012.75	-262.10	-1.846e+07	8.636e+04	-1.584e+04
3	38	80.00	-1.677e+05	3083.63	6.87	-7.363e+06	8.615e+04	1474.06
3	38	120.00	-1.549e+05	2840.47	134.93	-1.100e+07	9.196e+04	-3415.75
3	38	160.00	-1.443e+05	3438.01	137.58	-6.465e+06	1.008e+05	1.436e+04
3	38	200.00	-1.324e+05	3063.58	-3.46	-2.835e+06	1.040e+05	3.519e+04
3	38	240.00	-1.215e+05	2139.36	-303.46	-7.594e+05	9.499e+04	5.438e+04
3	38	270.00	-1.127e+05	1649.88	-668.89	-2.261e+05	7.837e+04	6.186e+04
3	38	280.00	-1.111e+05	1572.69	-756.41	3.983e+04	7.198e+04	6.421e+04
3	38	320.00	-8.871e+04	3031.15	-1121.07	2.171e+06	3.100e+04	5.717e+04
3	38	333.33	-6.407e+04	1.402e+04	-176.26	-2.216e+07	2.435e+04	3.052e+04
3	38	346.67	-6.350e+04	1.069e+04	-133.58	-2.141e+07	2.202e+04	2.007e+04
3	38	360.00	-6.202e+04	8101.59	-67.64	-2.111e+07	1.861e+04	1.074e+04
3	38	373.33	-5.607e+04	4587.83	99.57	-2.067e+07	1.887e+04	1.073e+04
3	38	386.67	-5.542e+04	3327.88	82.42	-1.957e+07	1.989e+04	1.021e+04
3	38	400.00	-5.482e+04	1531.46	72.99	-1.846e+07	2.089e+04	9943.93
3	38	413.33	-5.126e+04	291.13	171.73	-1.697e+07	2.285e+04	9102.01
3	38	426.67	-4.954e+04	-1097.06	162.10	-1.537e+07	2.505e+04	8757.53
3	38	440.00	-4.777e+04	-2399.88	155.94	-1.386e+07	2.722e+04	8534.50
3	38	453.33	-4.048e+04	-1614.72	292.28	-1.141e+07	3.147e+04	8266.28
3	38	466.67	-3.631e+04	-2099.54	288.01	-9.242e+06	3.571e+04	8493.18
3	38	480.00	-3.211e+04	-2270.16	288.98	-7.262e+06	3.962e+04	7981.17
3	38	493.33	-5939.19	-3017.04	-235.59	-1.988e+05	4.229e+04	1.533e+04
3	38	506.67	-5913.87	-2748.12	-223.69	-4.792e+04	3.893e+04	2.272e+04
3	38	520.00	-5841.61	-2298.25	-216.25	7.747e+04	3.558e+04	3.021e+04
3	38	533.33	-4736.16	3299.73	-195.90	9.863e+04	3.211e+04	2.895e+04
3	38	546.67	-4753.93	3675.51	-175.90	1.502e+05	2.876e+04	3.046e+04
3	38	560.00	-4741.31	4239.66	-161.17	1.763e+05	2.543e+04	3.205e+04
3	38	573.33	-3173.17	4556.96	-140.48	1.241e+05	2.195e+04	3.120e+04
3	38	586.67	-3231.62	4698.15	-122.53	1.328e+05	1.923e+04	3.176e+04
3	38	600.00	-3330.22	4471.04	-105.33	1.400e+05	1.646e+04	3.142e+04
3	38	613.33	-2353.07	3817.39	-134.49	1.137e+05	1.364e+04	2.847e+04
3	38	626.67	-1897.99	2880.58	-87.87	7.065e+04	1.092e+04	2.480e+04
3	38	640.00	-1401.00	1547.74	-52.74	2.521e+04	8240.27	2.065e+04
3	38	653.33	-458.86	426.51	-114.73	4798.71	5280.00	1.338e+04
3	38	666.67	-250.63	-64.83	-39.15	792.53	2640.93	6528.34



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	55	-113.70	-1.312e+05	-7912.55	1086.28	-2.373e+07	-2.290e+05	-1.270e+05
3	55	-55.00	-1.370e+05	-8684.23	1086.28	-2.442e+07	-2.449e+05	-9.439e+04
3	55	0.0	-1.323e+05	-1.274e+04	38.21	-2.281e+07	-2.353e+05	-4.798e+04
3	55	40.00	-1.244e+05	-1.318e+04	-31.85	-2.043e+07	-2.246e+05	-3.138e+04
3	55	80.00	-1.182e+05	-1.286e+04	-8.74	-1.182e+07	-2.406e+05	-3208.68
3	55	120.00	-1.080e+05	-1.262e+04	-180.84	-1.331e+07	-2.511e+05	1.917e+04
3	55	160.00	-9.964e+04	-1.201e+04	-156.80	-8.758e+06	-2.465e+05	3.866e+04
3	55	200.00	-9.096e+04	-1.225e+04	-169.48	-5.085e+06	-2.582e+05	6.637e+04
3	55	240.00	-8.310e+04	-1.279e+04	-353.56	-2.822e+06	-2.772e+05	8.508e+04
3	55	270.00	-7.643e+04	-1.197e+04	-338.83	-1.698e+06	-2.758e+05	9.335e+04
3	55	280.00	-7.552e+04	-1.217e+04	-325.81	-1.633e+06	-2.797e+05	9.142e+04
3	55	320.00	-5.944e+04	-9916.83	-148.29	4.156e+05	-2.890e+05	-5538.12
3	55	333.33	-4.376e+04	5621.18	934.85	-1.582e+07	-2.614e+05	-2.899e+05
3	55	346.67	-4.365e+04	3747.10	880.47	-1.516e+07	-2.638e+05	-3.112e+05
3	55	360.00	-4.301e+04	2144.98	1052.52	-1.476e+07	-2.671e+05	-3.323e+05
3	55	373.33	-3.919e+04	1822.63	1654.43	-1.437e+07	-2.615e+05	-3.711e+05
3	55	386.67	-3.881e+04	1066.51	1585.40	-1.357e+07	-2.569e+05	-3.717e+05
3	55	400.00	-3.851e+04	-56.82	1537.65	-1.275e+07	-2.521e+05	-3.731e+05
3	55	413.33	-3.571e+04	-458.73	1962.90	-1.157e+07	-2.598e+05	-4.048e+05
3	55	426.67	-3.466e+04	-1218.25	1905.72	-1.043e+07	-2.544e+05	-4.099e+05
3	55	440.00	-3.347e+04	-1900.03	1863.74	-9.390e+06	-2.487e+05	-4.139e+05
3	55	453.33	-2.783e+04	-394.73	2664.39	-7.596e+06	-1.589e+05	-4.177e+05
3	55	466.67	-2.495e+04	-758.88	2947.42	-6.168e+06	-1.602e+05	-4.032e+05
3	55	480.00	-2.225e+04	-653.21	3033.22	-4.796e+06	-1.557e+05	-3.657e+05
3	55	493.33	-4613.12	-895.79	1408.59	-8.394e+04	4.359e+04	-2.763e+05
3	55	506.67	-4607.12	-579.99	1159.96	3.175e+04	5.475e+04	-2.231e+05
3	55	520.00	-4564.01	-182.49	890.69	1.296e+05	6.625e+04	-1.720e+05
3	55	533.33	-3659.89	3448.31	1298.04	1.245e+05	7.798e+04	-924.40
3	55	546.67	-3646.84	3673.77	1028.40	1.624e+05	9.204e+04	5.538e+04
3	55	560.00	-3541.26	3953.36	613.93	1.698e+05	1.075e+05	1.092e+05
3	55	573.33	-2158.89	3709.27	-152.81	1.143e+05	9.006e+04	1.398e+05
3	55	586.67	-2171.67	3728.52	-395.10	1.168e+05	8.788e+04	1.031e+05
3	55	600.00	-2203.33	3483.94	-455.24	1.177e+05	8.857e+04	8.335e+04
3	55	613.33	-1671.22	2932.96	-705.46	8.609e+04	5.171e+04	8.906e+04
3	55	626.67	-1314.67	2210.75	-616.37	5.460e+04	4.970e+04	8.563e+04
3	55	640.00	-931.98	1182.77	-520.31	2.154e+04	4.374e+04	7.513e+04
3	55	653.33	-371.90	546.79	-827.28	4730.84	2.228e+04	5.270e+04
3	55	666.67	-154.71	57.66	-740.01	450.30	1.306e+04	2.799e+04
3	60	-113.70	-1.338e+05	2274.18	1212.51	-2.011e+07	-2.091e+05	-1.015e+05
3	60	-55.00	-1.397e+05	1506.42	1212.51	-2.080e+07	-2.243e+05	-6.764e+04
3	60	0.0	-1.351e+05	-1272.87	155.68	-1.967e+07	-2.098e+05	-2.144e+04
3	60	40.00	-1.267e+05	-1643.78	108.30	-1.781e+07	-1.974e+05	-1.217e+04
3	60	80.00	-1.202e+05	-1469.61	125.53	-9.230e+06	-2.063e+05	1.464e+04
3	60	120.00	-1.099e+05	-1534.33	-51.36	-1.094e+07	-2.087e+05	3.044e+04
3	60	160.00	-1.012e+05	-1090.98	-6.02	-6.672e+06	-2.001e+05	5.047e+04
3	60	200.00	-9.219e+04	-1709.89	-58.62	-3.073e+06	-2.071e+05	7.479e+04
3	60	240.00	-8.391e+04	-2976.13	-369.70	-8.681e+05	-2.243e+05	9.178e+04
3	60	270.00	-7.703e+04	-3161.59	-594.23	3.280e+04	-2.273e+05	9.591e+04
3	60	280.00	-7.616e+04	-3400.18	-645.20	6.253e+04	-2.343e+05	9.175e+04
3	60	320.00	-6.006e+04	-1595.94	-681.20	1.793e+06	-2.563e+05	-5220.25
3	60	333.33	-4.446e+04	9109.15	520.60	-1.535e+07	-2.459e+05	-2.968e+05
3	60	346.67	-4.414e+04	6967.75	437.41	-1.479e+07	-2.520e+05	-3.250e+05
3	60	360.00	-4.330e+04	5264.51	766.04	-1.448e+07	-2.585e+05	-3.531e+05
3	60	373.33	-3.945e+04	4677.14	1634.48	-1.408e+07	-2.587e+05	-3.764e+05
3	60	386.67	-3.912e+04	3865.94	1538.39	-1.325e+07	-2.533e+05	-3.703e+05
3	60	400.00	-3.879e+04	2741.74	1471.39	-1.244e+07	-2.478e+05	-3.664e+05
3	60	413.33	-3.576e+04	2032.62	2001.80	-1.129e+07	-2.551e+05	-3.920e+05
3	60	426.67	-3.468e+04	1221.88	1925.10	-1.016e+07	-2.493e+05	-3.935e+05
3	60	440.00	-3.346e+04	504.38	1865.07	-9.126e+06	-2.432e+05	-3.942e+05
3	60	453.33	-2.842e+04	1319.47	2641.73	-7.603e+06	-1.479e+05	-3.957e+05
3	60	466.67	-2.549e+04	929.96	2885.34	-6.177e+06	-1.492e+05	-3.795e+05
3	60	480.00	-2.276e+04	1025.37	2945.12	-4.804e+06	-1.450e+05	-3.429e+05
3	60	493.33	-4874.30	2.79	1376.98	-8.818e+04	6.089e+04	-2.509e+05
3	60	506.67	-4843.75	268.73	1130.21	2.551e+04	7.242e+04	-1.958e+05
3	60	520.00	-4770.97	616.99	866.36	1.201e+05	8.424e+04	-1.432e+05
3	60	533.33	-3688.84	3591.68	1227.21	1.358e+05	9.215e+04	3.040e+04
3	60	546.67	-3643.90	3761.36	962.90	1.668e+05	1.069e+05	8.643e+04
3	60	560.00	-3492.08	3974.53	559.78	1.645e+05	1.229e+05	1.396e+05
3	60	573.33	-2100.70	3706.15	-284.35	1.185e+05	1.023e+05	1.702e+05
3	60	586.67	-2085.36	3684.17	-491.59	1.152e+05	9.958e+04	1.284e+05



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	60	600.00	-2103.47	3393.85	-530.33	1.123e+05	9.968e+04	1.049e+05
3	60	613.33	-1630.36	3056.84	-816.02	8.348e+04	5.897e+04	1.072e+05
3	60	626.67	-1302.43	2302.25	-705.73	5.403e+04	5.625e+04	1.010e+05
3	60	640.00	-950.08	1270.71	-589.63	2.314e+04	4.926e+04	8.745e+04
3	60	653.33	-386.41	594.21	-937.17	5090.21	2.526e+04	6.027e+04
3	60	666.67	-152.46	73.80	-847.73	442.03	1.477e+04	3.192e+04
3	66	-113.70	-1.307e+05	2.467e+04	1336.52	-5.515e+06	2.339e+05	4926.82
3	66	-55.00	-1.365e+05	2.400e+04	1336.52	-6.288e+06	2.303e+05	1.052e+04
3	66	0.0	-1.327e+05	2.561e+04	5.37	-6.421e+06	2.108e+05	1.985e+04
3	66	40.00	-1.237e+05	2.508e+04	-102.68	-5.936e+06	1.974e+05	1.786e+04
3	66	80.00	-1.171e+05	2.469e+04	115.05	1.186e+06	2.101e+05	2.478e+04
3	66	120.00	-1.086e+05	2.404e+04	295.23	-2.229e+06	2.293e+05	3454.58
3	66	160.00	-1.009e+05	2.414e+04	378.86	-2.370e+05	2.390e+05	1.685e+04
3	66	200.00	-9.196e+04	2.342e+04	272.73	1.721e+06	2.534e+05	1.755e+04
3	66	240.00	-8.348e+04	2.155e+04	-153.76	2.755e+06	2.510e+05	2.561e+04
3	66	270.00	-7.688e+04	1.903e+04	-816.63	2.475e+06	2.327e+05	1.612e+04
3	66	280.00	-7.585e+04	1.904e+04	-1001.08	2.637e+06	2.239e+05	1.500e+04
3	66	320.00	-6.034e+04	1.914e+04	-1805.27	3.425e+06	1.715e+05	2.015e+04
3	66	333.33	-4.354e+04	1.595e+04	-940.46	-1.414e+07	1.293e+05	6.687e+04
3	66	346.67	-4.282e+04	1.330e+04	-940.95	-1.381e+07	1.248e+05	7.131e+04
3	66	360.00	-4.158e+04	1.136e+04	-755.54	-1.374e+07	1.206e+05	7.678e+04
3	66	373.33	-3.744e+04	7823.84	-466.08	-1.332e+07	1.102e+05	1.009e+05
3	66	386.67	-3.711e+04	6798.96	-478.88	-1.255e+07	1.114e+05	1.077e+05
3	66	400.00	-3.668e+04	5625.90	-491.63	-1.184e+07	1.125e+05	1.135e+05
3	66	413.33	-3.393e+04	4184.74	-330.66	-1.094e+07	1.147e+05	1.298e+05
3	66	426.67	-3.275e+04	3127.08	-338.19	-9.897e+06	1.166e+05	1.327e+05
3	66	440.00	-3.155e+04	2137.95	-350.70	-8.902e+06	1.184e+05	1.353e+05
3	66	453.33	-2.772e+04	1281.23	-458.50	-7.716e+06	1.428e+05	1.319e+05
3	66	466.67	-2.492e+04	944.40	-596.86	-6.258e+06	1.456e+05	1.314e+05
3	66	480.00	-2.204e+04	761.30	-657.04	-4.944e+06	1.461e+05	1.196e+05
3	66	493.33	-4111.99	-1060.35	-845.00	-2.102e+05	9.703e+04	8.205e+04
3	66	506.67	-4078.55	-993.20	-750.96	-1.097e+05	8.539e+04	8.864e+04
3	66	520.00	-4012.15	-798.60	-646.54	-2.637e+04	7.362e+04	9.583e+04
3	66	533.33	-2940.91	1955.36	-979.60	3.761e+04	4.088e+04	5.719e+04
3	66	546.67	-2938.15	2137.05	-865.60	6.532e+04	3.193e+04	4.594e+04
3	66	560.00	-2923.63	2448.73	-693.67	7.786e+04	2.243e+04	3.531e+04
3	66	573.33	-1899.43	2752.16	-408.19	8.147e+04	1.625e+04	2.582e+04
3	66	586.67	-1917.57	2823.40	-288.81	7.982e+04	1.254e+04	3.280e+04
3	66	600.00	-1992.34	2649.03	-227.17	8.113e+04	8022.01	3.484e+04
3	66	613.33	-1424.47	2592.79	-90.94	6.830e+04	1.043e+04	2.728e+04
3	66	626.67	-1200.41	1953.15	-45.86	4.434e+04	6906.72	2.186e+04
3	66	640.00	-953.12	1153.86	-10.09	1.924e+04	4168.65	1.711e+04
3	66	653.33	-266.07	310.71	-76.82	3614.03	3642.18	9912.28
3	66	666.67	-145.66	-24.51	22.91	683.95	1574.70	4616.20
3	70	-113.70	-1.304e+05	2.430e+04	1394.45	-5.505e+06	2.224e+05	6243.43
3	70	-55.00	-1.362e+05	2.362e+04	1394.45	-6.278e+06	2.188e+05	1.095e+04
3	70	0.0	-1.325e+05	2.532e+04	35.53	-6.384e+06	2.025e+05	2.008e+04
3	70	40.00	-1.235e+05	2.479e+04	-49.01	-5.888e+06	1.916e+05	2.252e+04
3	70	80.00	-1.170e+05	2.443e+04	166.28	1.218e+06	2.054e+05	2.720e+04
3	70	120.00	-1.084e+05	2.381e+04	355.80	-2.204e+06	2.250e+05	4175.25
3	70	160.00	-1.008e+05	2.384e+04	417.52	-2.274e+05	2.366e+05	1.851e+04
3	70	200.00	-9.184e+04	2.303e+04	249.19	1.698e+06	2.513e+05	1.914e+04
3	70	240.00	-8.345e+04	2.125e+04	-132.22	2.734e+06	2.538e+05	2.897e+04
3	70	270.00	-7.685e+04	1.887e+04	-805.36	2.466e+06	2.328e+05	2.432e+04
3	70	280.00	-7.581e+04	1.889e+04	-986.94	2.631e+06	2.241e+05	2.301e+04
3	70	320.00	-6.031e+04	1.874e+04	-1748.43	3.417e+06	1.717e+05	4.891e+04
3	70	333.33	-4.351e+04	1.591e+04	-1010.21	-1.413e+07	1.286e+05	1.048e+05
3	70	346.67	-4.279e+04	1.325e+04	-1013.28	-1.381e+07	1.237e+05	9.417e+04
3	70	360.00	-4.155e+04	1.131e+04	-811.96	-1.373e+07	1.193e+05	8.453e+04
3	70	373.33	-3.742e+04	7792.34	-497.76	-1.331e+07	1.086e+05	1.097e+05
3	70	386.67	-3.709e+04	6769.74	-514.72	-1.254e+07	1.100e+05	1.174e+05
3	70	400.00	-3.666e+04	5598.70	-530.57	-1.183e+07	1.112e+05	1.239e+05
3	70	413.33	-3.391e+04	4159.11	-369.00	-1.094e+07	1.148e+05	1.449e+05
3	70	426.67	-3.273e+04	3103.15	-378.35	-9.893e+06	1.165e+05	1.505e+05
3	70	440.00	-3.154e+04	2115.46	-392.49	-8.898e+06	1.182e+05	1.556e+05
3	70	453.33	-2.767e+04	1254.31	-516.09	-7.709e+06	1.044e+05	1.540e+05
3	70	466.67	-2.487e+04	916.40	-651.07	-6.253e+06	1.103e+05	1.528e+05
3	70	480.00	-2.199e+04	733.99	-710.70	-4.939e+06	1.137e+05	1.402e+05
3	70	493.33	-4098.64	-1091.53	-836.53	-2.101e+05	6.456e+04	1.223e+05
3	70	506.67	-4064.92	-1021.87	-741.77	-1.100e+05	5.617e+04	1.197e+05



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	70	520.00	-3998.62	-825.03	-637.09	-2.691e+04	4.759e+04	1.176e+05
3	70	533.33	-2928.43	1930.91	-761.73	3.734e+04	3.405e+04	6.367e+04
3	70	546.67	-2926.18	2112.78	-645.81	6.492e+04	2.535e+04	4.850e+04
3	70	560.00	-2912.09	2425.57	-471.35	7.732e+04	1.607e+04	3.393e+04
3	70	573.33	-1917.59	2707.88	-275.24	7.293e+04	1.302e+04	2.311e+04
3	70	586.67	-1937.78	2781.61	-151.96	7.198e+04	9388.05	3.005e+04
...								
3	141	666.67	-146.91	-34.08	-25.45	526.35	1686.23	4165.46
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.930e+05	-1.318e+04	-1805.27	-2.442e+07	-2.890e+05	-4.177e+05
			-136.91	2.561e+04	3033.22	3.425e+06	2.538e+05	1.702e+05

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	11	-113.70	-2.744e+04	124.26	-1070.73	-6.072e+05	-5.304e+04	-3798.65
4	11	-55.00	-3.133e+04	438.53	-1070.73	-6.379e+05	-9.149e+04	2769.11
4	11	0.0	-3.018e+04	3343.91	638.78	-5.419e+05	-4.009e+04	6108.85
4	11	40.00	-2.985e+04	3270.71	236.23	-5.003e+05	-3.078e+04	6851.65
4	11	80.00	-2.887e+04	3191.90	124.71	-4.500e+05	-2.274e+04	5492.59
4	11	120.00	-2.760e+04	3163.64	86.22	-3.887e+05	-1.738e+04	9567.98
4	11	160.00	-2.552e+04	3096.05	60.63	-3.144e+05	-1.378e+04	9649.87
4	11	200.00	-2.337e+04	3047.88	42.65	-2.298e+05	-1.096e+04	1.006e+04
4	11	240.00	-2.100e+04	3008.17	37.41	-1.374e+05	-8363.06	1.056e+04
4	11	280.00	-1.840e+04	2969.31	21.98	-3.427e+04	-6273.16	1.115e+04
4	11	320.00	-1.562e+04	2767.92	-139.96	6.619e+04	-1.059e+04	1.150e+04
4	11	360.00	-1.164e+04	951.86	168.63	1.345e+05	-1362.67	8401.81
4	12	-113.70	-3.033e+04	124.40	-1183.51	-6.077e+05	-5.873e+04	-3871.89
4	12	-55.00	-3.466e+04	439.24	-1183.51	-6.384e+05	-1.013e+05	2686.45
4	12	0.0	-3.353e+04	3346.00	702.36	-5.423e+05	-4.459e+04	6029.62
4	12	40.00	-3.328e+04	3272.76	259.38	-5.007e+05	-3.439e+04	6782.06
4	12	80.00	-3.227e+04	3193.92	136.43	-4.503e+05	-2.560e+04	5441.31
4	12	120.00	-3.095e+04	3165.67	93.42	-3.890e+05	-1.978e+04	9486.13
4	12	160.00	-2.876e+04	3098.09	65.28	-3.146e+05	-1.589e+04	9571.82
4	12	200.00	-2.647e+04	3049.94	45.71	-2.300e+05	-1.286e+04	9985.96
4	12	240.00	-2.394e+04	3010.26	40.34	-1.375e+05	-1.004e+04	1.048e+04
4	12	280.00	-2.112e+04	2971.50	23.22	-3.425e+04	-7755.99	1.107e+04
4	12	320.00	-1.807e+04	2770.14	-162.64	6.630e+04	-1.281e+04	1.143e+04
4	12	360.00	-1.353e+04	952.76	205.03	1.346e+05	-1581.64	8353.79
4	28	-113.70	-3.417e+04	-58.35	-1341.51	-5.160e+04	-8.241e+04	516.92
4	28	-55.00	-3.919e+04	-21.14	-1341.51	-5.904e+04	-1.192e+05	1463.41
4	28	0.0	-3.774e+04	256.38	898.29	-5.104e+04	-4.922e+04	1798.74
4	28	40.00	-3.735e+04	255.73	348.51	-4.780e+04	-3.648e+04	1738.45
4	28	80.00	-3.611e+04	254.72	158.55	-4.345e+04	-2.581e+04	1378.18
4	28	120.00	-3.455e+04	257.38	132.09	-3.795e+04	-1.871e+04	2286.15
4	28	160.00	-3.205e+04	256.99	82.01	-3.119e+04	-1.431e+04	2272.28
4	28	200.00	-2.946e+04	258.05	38.54	-2.338e+04	-1.144e+04	2339.11
4	28	240.00	-2.661e+04	259.36	9.89	-1.466e+04	-9362.76	2413.43
4	28	280.00	-2.345e+04	259.29	-31.33	-4788.82	-8401.40	2489.43
4	28	320.00	-2.009e+04	242.04	-253.37	4906.91	-1.614e+04	2495.83
4	28	360.00	-1.477e+04	80.58	246.56	1.162e+04	-2503.64	1674.00
4	35	-113.70	-2.229e+04	-39.64	-854.97	-3.311e+04	-6.861e+04	439.03
4	35	-55.00	-2.555e+04	-15.49	-854.97	-3.797e+04	-8.015e+04	1067.60
4	35	0.0	-2.408e+04	166.11	685.67	-3.285e+04	-2.941e+04	1278.82
4	35	40.00	-2.343e+04	165.71	282.34	-3.080e+04	-1.985e+04	1226.10
4	35	80.00	-2.230e+04	165.09	108.82	-2.801e+04	-1.207e+04	966.81
4	35	120.00	-2.099e+04	166.83	115.84	-2.447e+04	-6762.00	1597.26
4	35	160.00	-1.911e+04	166.58	65.01	-2.012e+04	-3697.42	1582.58
4	35	200.00	-1.721e+04	167.26	14.96	-1.509e+04	-2214.48	1625.14
4	35	240.00	-1.519e+04	168.08	-27.24	-9464.24	-1882.46	1673.22
4	35	280.00	-1.304e+04	167.90	-76.35	-3092.89	-2877.71	1722.48
4	35	320.00	-1.087e+04	156.38	-218.54	3157.60	-9427.61	1723.81
4	35	360.00	-7595.73	51.50	128.38	7506.71	-2186.72	1152.55
4	47	-113.70	-2.237e+04	0.93	-827.78	-1.278e+06	-5.452e+04	2039.11
4	47	-55.00	-2.542e+04	-90.09	-827.78	-1.267e+06	-8.373e+04	2996.67



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	47	0.0	-2.436e+04	6486.94	636.30	-1.158e+06	-4.009e+04	1.546e+04
4	47	40.00	-2.437e+04	6951.75	219.12	-1.225e+06	-2.899e+04	1.957e+04
4	47	80.00	-2.329e+04	6799.20	120.92	-1.146e+06	-2.175e+04	1.703e+04
4	47	120.00	-2.208e+04	7075.44	70.88	-9.978e+05	-1.682e+04	2.534e+04
4	47	160.00	-2.030e+04	6812.45	45.87	-8.525e+05	-1.420e+04	2.857e+04
4	47	200.00	-1.835e+04	6813.04	19.43	-6.866e+05	-1.258e+04	3.011e+04
4	47	240.00	-1.616e+04	6803.25	7.91	-4.832e+05	-1.169e+04	3.249e+04
4	47	280.00	-1.377e+04	6920.93	1.81	-2.496e+05	-1.142e+04	3.459e+04
4	47	320.00	-1.144e+04	6625.47	-78.97	-3.839e+04	-1.545e+04	3.875e+04
4	47	360.00	-7836.00	4056.45	324.07	2.116e+05	-4828.42	3.997e+04
4	73	-113.70	-2.582e+04	11.49	-845.97	2.855e+05	-9.408e+04	-680.03
4	73	-55.00	-2.902e+04	74.02	-845.97	2.743e+05	-1.231e+05	233.72
4	73	0.0	-2.756e+04	-1397.72	1030.26	2.592e+05	-6.680e+04	-2814.49
4	73	40.00	-2.814e+04	-1673.99	273.19	2.844e+05	-4.397e+04	-3990.48
4	73	80.00	-2.613e+04	-1755.74	198.49	3.335e+05	-3.359e+04	-3480.08
4	73	120.00	-2.461e+04	-1596.72	90.95	2.406e+05	-2.647e+04	-5410.04
4	73	160.00	-2.209e+04	-1393.99	16.79	2.095e+05	-2.426e+04	-5841.61
4	73	200.00	-1.923e+04	-1398.83	-60.15	2.015e+05	-2.478e+04	-6259.81
4	73	240.00	-1.607e+04	-1433.29	-119.09	1.249e+05	-2.765e+04	-6859.19
4	73	280.00	-1.249e+04	-1773.74	-131.93	6.496e+04	-3.196e+04	-7378.75
4	73	320.00	-9671.08	-1634.76	-133.66	2.204e+04	-3.855e+04	-8563.89
4	73	360.00	-4347.59	-1045.73	858.63	-4.978e+04	-1.641e+04	-1.060e+04
4	79	-113.70	-2.198e+04	-9.94	-821.13	-9.345e+05	-5.045e+04	1565.30
4	79	-55.00	-2.499e+04	-67.75	-821.13	-9.277e+05	-7.959e+04	2514.60
4	79	0.0	-2.398e+04	4744.10	592.75	-8.477e+05	-3.734e+04	1.159e+04
4	79	40.00	-2.391e+04	5079.51	207.49	-8.948e+05	-2.738e+04	1.453e+04
4	79	80.00	-2.291e+04	4969.10	113.35	-8.370e+05	-2.047e+04	1.262e+04
4	79	120.00	-2.177e+04	5169.25	69.07	-7.288e+05	-1.579e+04	1.883e+04
4	79	160.00	-2.004e+04	4978.49	45.63	-6.224e+05	-1.315e+04	2.115e+04
4	79	200.00	-1.817e+04	4978.17	22.73	-5.009e+05	-1.140e+04	2.228e+04
4	79	240.00	-1.608e+04	4970.39	13.20	-3.522e+05	-1.022e+04	2.403e+04
4	79	280.00	-1.380e+04	5054.43	5.44	-1.812e+05	-9599.18	2.558e+04
4	79	320.00	-1.152e+04	4836.02	-86.92	-2.669e+04	-1.344e+04	2.859e+04
4	79	360.00	-8080.40	2945.82	270.64	1.552e+05	-3797.43	2.929e+04
4	105	-113.70	-2.446e+04	-5.72	-833.18	1.988e+05	-7.901e+04	-284.68
4	105	-55.00	-2.758e+04	45.72	-833.18	1.894e+05	-1.079e+05	532.98
4	105	0.0	-2.628e+04	-970.12	876.76	1.797e+05	-5.660e+04	-1614.68
4	105	40.00	-2.662e+04	-1169.61	246.19	1.984e+05	-3.818e+04	-2481.28
4	105	80.00	-2.496e+04	-1229.62	169.13	2.346e+05	-2.901e+04	-2202.40
4	105	120.00	-2.359e+04	-1115.74	83.29	1.681e+05	-2.276e+04	-3408.41
4	105	160.00	-2.132e+04	-970.38	24.25	1.467e+05	-2.043e+04	-3718.12
4	105	200.00	-1.880e+04	-973.21	-35.24	1.421e+05	-2.023e+04	-4010.98
4	105	240.00	-1.601e+04	-997.11	-79.15	8.803e+04	-2.179e+04	-4434.33
4	105	280.00	-1.287e+04	-1242.66	-91.76	4.619e+04	-2.450e+04	-4801.73
4	105	320.00	-1.024e+04	-1146.27	-126.73	1.657e+04	-3.021e+04	-5663.78
4	105	360.00	-5553.84	-745.04	658.85	-3.424e+04	-1.221e+04	-7300.26
4	116	-113.70	-2.094e+04	78.59	-804.42	-4.097e+05	-3.984e+04	-2480.94
4	116	-55.00	-2.386e+04	291.38	-804.42	-4.308e+05	-6.874e+04	1985.05
4	116	0.0	-2.297e+04	2253.38	479.64	-3.661e+05	-3.013e+04	4242.12
4	116	40.00	-2.270e+04	2204.52	177.54	-3.380e+05	-2.313e+04	4731.43
4	116	80.00	-2.193e+04	2151.89	93.96	-3.041e+05	-1.707e+04	3791.32
4	116	120.00	-2.095e+04	2133.30	64.93	-2.627e+05	-1.303e+04	6593.63
4	116	160.00	-1.936e+04	2088.20	45.69	-2.125e+05	-1.031e+04	6646.82
4	116	200.00	-1.771e+04	2056.19	32.17	-1.554e+05	-8175.10	6928.89
4	116	240.00	-1.590e+04	2029.83	28.18	-9.298e+04	-6213.71	7263.53
4	116	280.00	-1.392e+04	2003.93	16.23	-2.330e+04	-4643.98	7667.90
4	116	320.00	-1.181e+04	1868.06	-107.17	4.458e+04	-7966.94	7902.94
4	116	360.00	-8788.75	642.20	126.73	9.074e+04	-1037.63	5758.78
4	117	-113.70	-2.287e+04	78.68	-879.61	-4.100e+05	-4.364e+04	-2529.77
4	117	-55.00	-2.607e+04	291.86	-879.61	-4.311e+05	-7.526e+04	1929.94
4	117	0.0	-2.521e+04	2254.77	522.02	-3.663e+05	-3.313e+04	4189.31
4	117	40.00	-2.498e+04	2205.89	192.97	-3.383e+05	-2.553e+04	4685.04
4	117	80.00	-2.420e+04	2153.23	101.77	-3.043e+05	-1.898e+04	3757.13
4	117	120.00	-2.319e+04	2134.65	69.74	-2.629e+05	-1.463e+04	6539.07
4	117	160.00	-2.151e+04	2089.56	48.78	-2.126e+05	-1.172e+04	6594.78
4	117	200.00	-1.978e+04	2057.56	34.21	-1.555e+05	-9442.50	6877.08
4	117	240.00	-1.786e+04	2031.23	30.13	-9.303e+04	-7332.86	7211.77
4	117	280.00	-1.573e+04	2005.39	17.06	-2.329e+04	-5632.54	7616.28
4	117	320.00	-1.344e+04	1869.54	-122.29	4.466e+04	-9443.61	7852.61
4	117	360.00	-1.005e+04	642.80	151.00	9.084e+04	-1183.61	5726.77



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	125	-113.70	-2.543e+04	-43.22	-985.00	-3.905e+04	-5.943e+04	398.58
4	125	-55.00	-2.910e+04	-15.25	-985.00	-4.464e+04	-8.720e+04	1114.41
4	125	0.0	-2.801e+04	193.90	652.67	-3.860e+04	-3.622e+04	1367.24
4	125	40.00	-2.770e+04	193.41	252.41	-3.614e+04	-2.693e+04	1320.76
4	125	80.00	-2.676e+04	192.65	116.53	-3.286e+04	-1.912e+04	1046.66
4	125	120.00	-2.558e+04	194.66	95.53	-2.870e+04	-1.392e+04	1736.02
4	125	160.00	-2.371e+04	194.37	59.95	-2.358e+04	-1.067e+04	1725.18
4	125	200.00	-2.177e+04	195.17	29.45	-1.768e+04	-8495.91	1775.69
4	125	240.00	-1.964e+04	196.15	9.85	-1.109e+04	-6880.48	1831.90
4	125	280.00	-1.729e+04	196.10	-19.29	-3628.41	-6062.75	1889.40
4	125	320.00	-1.478e+04	183.05	-182.76	3700.42	-1.166e+04	1894.27
4	125	360.00	-1.088e+04	60.95	178.69	8785.26	-1798.16	1270.69
4	127	-113.70	-2.199e+04	-42.81	-854.83	-3.647e+04	-5.985e+04	482.29
4	127	-55.00	-2.519e+04	-16.60	-854.83	-4.185e+04	-7.777e+04	1177.08
4	127	0.0	-2.393e+04	182.11	627.02	-3.620e+04	-3.028e+04	1412.25
4	127	40.00	-2.341e+04	181.68	250.99	-3.393e+04	-2.143e+04	1354.35
4	127	80.00	-2.241e+04	181.00	105.56	-3.086e+04	-1.412e+04	1067.92
4	127	120.00	-2.122e+04	182.91	100.01	-2.696e+04	-9164.71	1765.83
4	127	160.00	-1.943e+04	182.63	59.29	-2.217e+04	-6174.87	1750.00
4	127	200.00	-1.760e+04	183.37	21.08	-1.663e+04	-4449.04	1797.37
4	127	240.00	-1.564e+04	184.25	-8.50	-1.046e+04	-3549.97	1850.66
4	127	280.00	-1.352e+04	184.06	-45.24	-3459.40	-3661.95	1905.06
4	127	320.00	-1.135e+04	171.51	-182.21	3404.98	-9143.37	1906.68
4	127	360.00	-8107.60	56.72	131.28	8196.65	-1815.17	1274.89
4	135	-113.70	-2.172e+04	-44.34	-834.62	-4.075e+04	-4.137e+04	496.06
4	135	-55.00	-2.475e+04	-15.78	-834.62	-4.663e+04	-7.137e+04	1260.57
4	135	0.0	-2.387e+04	202.20	496.28	-4.034e+04	-3.135e+04	1524.00
4	135	40.00	-2.361e+04	201.72	183.61	-3.778e+04	-2.412e+04	1465.00
4	135	80.00	-2.283e+04	200.95	97.06	-3.435e+04	-1.787e+04	1156.79
4	135	120.00	-2.183e+04	203.07	66.73	-3.001e+04	-1.371e+04	1916.51
4	135	160.00	-2.021e+04	202.74	46.72	-2.467e+04	-1.092e+04	1901.26
4	135	200.00	-1.852e+04	203.57	32.64	-1.851e+04	-8738.46	1954.32
4	135	240.00	-1.666e+04	204.57	28.44	-1.164e+04	-6728.95	2013.64
4	135	280.00	-1.461e+04	204.46	15.90	-3868.87	-5115.49	2074.28
4	135	320.00	-1.242e+04	190.75	-113.95	3750.07	-8645.73	2079.33
4	135	360.00	-9238.18	63.41	138.15	9129.46	-1100.62	1396.35
4	136	-113.70	-2.094e+04	-19.66	-804.36	-1.150e+05	-3.984e+04	-83.56
4	136	-55.00	-2.386e+04	45.87	-804.36	-1.240e+05	-6.874e+04	1432.72
4	136	0.0	-2.297e+04	614.53	479.31	-1.060e+05	-3.014e+04	2098.56
4	136	40.00	-2.269e+04	604.37	177.42	-9.829e+04	-2.315e+04	2147.39
4	136	80.00	-2.192e+04	593.22	93.92	-8.871e+04	-1.710e+04	1706.29
4	136	120.00	-2.094e+04	591.23	64.81	-7.691e+04	-1.306e+04	2889.19
4	136	160.00	-1.935e+04	581.94	45.49	-6.254e+04	-1.034e+04	2887.08
4	136	200.00	-1.770e+04	576.20	31.87	-4.613e+04	-8218.81	2986.77
4	136	240.00	-1.588e+04	571.73	27.73	-2.807e+04	-6267.52	3102.06
4	136	280.00	-1.389e+04	566.43	15.65	-7828.68	-4706.03	3232.19
4	136	320.00	-1.177e+04	528.13	-107.82	1.193e+04	-8040.32	3281.93
4	136	360.00	-8744.20	179.89	128.14	2.551e+04	-1041.71	2291.25
4	138	-113.70	-2.116e+04	-44.10	-814.75	-3.961e+04	-4.386e+04	510.49
4	138	-55.00	-2.413e+04	-16.21	-814.75	-4.537e+04	-7.058e+04	1260.34
4	138	0.0	-2.317e+04	196.94	508.95	-3.925e+04	-3.019e+04	1515.97
4	138	40.00	-2.284e+04	196.48	192.19	-3.678e+04	-2.282e+04	1454.89
4	138	80.00	-2.202e+04	195.74	96.28	-3.344e+04	-1.652e+04	1147.56
4	138	120.00	-2.100e+04	197.81	71.88	-2.922e+04	-1.229e+04	1899.56
4	138	160.00	-1.936e+04	197.49	48.27	-2.402e+04	-9522.04	1883.24
4	138	200.00	-1.768e+04	198.29	29.70	-1.803e+04	-7478.15	1934.83
4	138	240.00	-1.583e+04	199.25	20.45	-1.134e+04	-5737.77	1992.68
4	138	280.00	-1.381e+04	199.09	3.42	-3780.30	-4510.85	2051.76
4	138	320.00	-1.168e+04	185.66	-122.76	3637.55	-8275.11	2055.36
4	138	360.00	-8607.00	61.64	129.06	8864.93	-1196.73	1377.95
4	140	-113.70	-2.095e+04	-44.37	-804.55	-4.062e+04	-3.985e+04	515.78
4	140	-55.00	-2.386e+04	-15.98	-804.55	-4.650e+04	-6.876e+04	1282.68
4	140	0.0	-2.298e+04	201.61	479.34	-4.023e+04	-3.015e+04	1545.13
4	140	40.00	-2.269e+04	201.13	177.44	-3.768e+04	-2.316e+04	1483.52
4	140	80.00	-2.192e+04	200.37	93.94	-3.426e+04	-1.711e+04	1170.42
4	140	120.00	-2.094e+04	202.49	64.81	-2.993e+04	-1.307e+04	1938.25
4	140	160.00	-1.935e+04	202.16	45.48	-2.461e+04	-1.035e+04	1921.98
4	140	200.00	-1.769e+04	202.98	31.83	-1.847e+04	-8231.79	1974.93
4	140	240.00	-1.588e+04	203.97	27.66	-1.162e+04	-6281.56	2034.22
4	140	280.00	-1.389e+04	203.83	15.56	-3876.49	-4720.34	2094.78



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	140	320.00	-1.177e+04	190.12	-107.91	3716.70	-8055.37	2099.26
4	140	360.00	-8734.14	63.17	128.45	9085.18	-1042.23	1408.89
4	141	-113.70	-2.095e+04	-44.37	-804.55	-4.062e+04	-3.985e+04	515.78
4	141	-55.00	-2.386e+04	-15.98	-804.55	-4.650e+04	-6.876e+04	1282.68
4	141	0.0	-2.298e+04	201.61	479.34	-4.023e+04	-3.015e+04	1545.13
4	141	40.00	-2.269e+04	201.13	177.44	-3.768e+04	-2.316e+04	1483.52
4	141	80.00	-2.192e+04	200.37	93.94	-3.426e+04	-1.711e+04	1170.42
4	141	120.00	-2.094e+04	202.49	64.81	-2.993e+04	-1.307e+04	1938.25
4	141	160.00	-1.935e+04	202.16	45.48	-2.461e+04	-1.035e+04	1921.98
4	141	200.00	-1.769e+04	202.98	31.83	-1.847e+04	-8231.79	1974.93
4	141	240.00	-1.588e+04	203.97	27.66	-1.162e+04	-6281.56	2034.22
4	141	280.00	-1.389e+04	203.83	15.56	-3876.49	-4720.34	2094.78
4	141	320.00	-1.177e+04	190.12	-107.91	3716.70	-8055.37	2099.26
4	141	360.00	-8734.14	63.17	128.45	9085.18	-1042.23	1408.89
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-3.919e+04	-1773.74	-1341.51	-1.278e+06	-1.231e+05	-1.060e+04
			-4347.59	7075.44	1030.26	3.335e+05	-1037.63	3.997e+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	24	-113.70	-1.696e+04	-726.35	120.49	-3.358e+05	4.142e+04	-6.556e+04
5	24	-55.00	-1.696e+04	-726.35	120.49	-2.988e+05	3.141e+04	2422.68
5	24	0.0	-1.847e+04	88.09	-93.96	-3.009e+05	2.323e+04	-5241.13
5	24	40.00	-1.816e+04	88.09	-114.48	-3.044e+05	1.801e+04	-4931.96
5	24	80.00	-1.790e+04	88.09	-101.92	-3.079e+05	1.341e+04	-4720.14
5	24	120.00	-1.764e+04	88.09	-87.51	-3.114e+05	9420.67	-4703.59
5	24	160.00	-1.738e+04	88.09	-73.88	-3.149e+05	6045.70	-4702.81
5	24	200.00	-1.712e+04	88.09	-60.36	-3.184e+05	3285.13	-4702.44
5	24	240.00	-1.686e+04	88.09	-46.69	-3.220e+05	1138.96	-4699.35
5	24	280.00	-1.660e+04	88.09	-32.21	-3.255e+05	-392.81	-4675.10
5	24	320.00	-1.634e+04	88.09	-13.09	-3.290e+05	-1310.18	-4512.97
5	24	333.33	-1.526e+04	-3953.07	42.24	-2.976e+05	-1448.13	-4209.43
5	24	346.67	-1.202e+04	-1203.07	18.69	-1.032e+05	-519.20	-1060.83
5	28	-113.70	-1.895e+04	-797.80	209.34	-3.747e+05	3.334e+04	-5.140e+04
5	28	-55.00	-1.895e+04	-797.81	209.34	-3.343e+05	2.895e+04	1606.63
5	28	0.0	-2.069e+04	138.44	-32.90	-3.388e+05	2.484e+04	-3788.53
5	28	40.00	-2.038e+04	138.44	-65.63	-3.442e+05	2.185e+04	-3453.87
5	28	80.00	-2.012e+04	138.44	-66.37	-3.498e+05	1.886e+04	-3271.14
5	28	120.00	-1.986e+04	138.44	-65.61	-3.553e+05	1.586e+04	-3257.28
5	28	160.00	-1.960e+04	138.44	-65.47	-3.608e+05	1.287e+04	-3256.63
5	28	200.00	-1.934e+04	138.44	-65.43	-3.664e+05	9882.08	-3256.19
5	28	240.00	-1.908e+04	138.44	-65.32	-3.719e+05	6890.90	-3252.38
5	28	280.00	-1.882e+04	138.44	-64.75	-3.775e+05	3899.72	-3221.42
5	28	320.00	-1.856e+04	138.44	-61.56	-3.830e+05	908.55	-2989.66
5	28	333.33	-1.735e+04	-4513.96	-27.99	-3.463e+05	-108.90	-2489.48
5	28	346.67	-1.377e+04	-1404.52	-11.83	-1.190e+05	-149.45	-572.93
5	45	-113.70	-1.114e+04	-782.59	30.58	-2.159e+05	1.775e+04	-3.145e+04
5	45	-55.00	-1.114e+04	-782.59	30.58	-1.738e+05	1.526e+04	-2232.02
5	45	0.0	-1.219e+04	75.94	-25.62	-1.761e+05	1.293e+04	-5545.58
5	45	40.00	-1.196e+04	75.94	-37.49	-1.791e+05	1.123e+04	-5415.00
5	45	80.00	-1.176e+04	75.94	-37.69	-1.821e+05	9534.75	-5326.84
5	45	120.00	-1.156e+04	75.94	-37.23	-1.852e+05	7838.56	-5319.91
5	45	160.00	-1.136e+04	75.94	-37.12	-1.882e+05	6142.37	-5319.52
5	45	200.00	-1.116e+04	75.94	-37.05	-1.912e+05	4446.17	-5318.92
5	45	240.00	-1.096e+04	75.94	-36.77	-1.943e+05	2749.98	-5313.92
5	45	280.00	-1.076e+04	75.94	-35.45	-1.973e+05	1053.78	-5274.32
5	45	320.00	-1.056e+04	75.94	-28.22	-2.003e+05	-642.41	-4998.97
5	45	333.33	-9849.41	-2491.90	23.64	-1.817e+05	-1232.08	-4531.22
5	45	346.67	-7621.79	-725.79	9.42	-6.451e+04	-452.96	-978.01
5	53	-113.70	-1.193e+04	329.11	-5.65	-2.638e+05	4.814e+04	-7.774e+04
5	53	-55.00	-1.193e+04	329.11	-5.65	-2.296e+05	4.347e+04	-3967.22
5	53	0.0	-1.258e+04	-205.39	-165.05	-2.460e+05	3.703e+04	-3523.14
5	53	40.00	-1.237e+04	-205.83	-157.26	-2.443e+05	3.081e+04	-3000.98



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
5	53	80.00	-1.219e+04	-201.07	-147.74	-2.401e+05	2.576e+04	-3300.65
5	53	120.00	-1.202e+04	-195.75	-142.98	-2.361e+05	2.119e+04	-3142.06
5	53	160.00	-1.185e+04	-189.59	-137.17	-2.324e+05	1.697e+04	-3157.20
5	53	200.00	-1.170e+04	-182.57	-82.54	-2.291e+05	1.316e+04	-3150.83
5	53	240.00	-1.156e+04	-174.72	-77.39	-2.264e+05	392.26	-3145.05
5	53	280.00	-1.145e+04	-166.42	-69.96	-2.244e+05	263.66	-3117.86
5	53	320.00	-1.139e+04	-168.46	-59.60	-2.227e+05	-233.57	-2969.97
5	53	333.33	-1.002e+04	-2801.69	-22.23	-1.892e+05	-432.30	-2541.60
5	53	346.67	-7801.49	-840.60	0.98	-6.692e+04	-234.49	-713.64
5	73	-113.70	-1.222e+04	804.73	103.99	-2.817e+05	3.434e+04	-5.527e+04
5	73	-55.00	-1.222e+04	804.73	103.99	-2.591e+05	3.253e+04	1.374e+04
5	73	0.0	-1.270e+04	-357.01	-53.33	-2.770e+05	2.716e+04	1.085e+04
5	73	40.00	-1.251e+04	-346.75	-66.01	-2.720e+05	2.395e+04	1.152e+04
5	73	80.00	-1.235e+04	-335.65	-65.52	-2.640e+05	2.111e+04	1.132e+04
5	73	120.00	-1.221e+04	-323.21	-65.72	-2.564e+05	1.847e+04	1.141e+04
5	73	160.00	-1.208e+04	-308.94	-65.96	-2.494e+05	1.591e+04	1.138e+04
5	73	200.00	-1.196e+04	-292.77	-51.58	-2.431e+05	1.344e+04	1.136e+04
5	73	240.00	-1.186e+04	-274.72	-51.99	-2.377e+05	8235.61	1.135e+04
5	73	280.00	-1.178e+04	-255.28	-51.55	-2.334e+05	6747.29	1.126e+04
5	73	320.00	-1.183e+04	-256.03	-49.62	-2.279e+05	4996.70	1.166e+04
5	73	333.33	-1.090e+04	-2872.47	-78.58	-2.027e+05	3827.31	8926.69
5	73	346.67	-8575.97	-869.93	-156.53	-6.698e+04	1888.29	3918.29
5	74	-113.70	-1.087e+04	-1659.71	7.77	-1.840e+05	2.116e+04	-3.499e+04
5	74	-55.00	-1.087e+04	-1659.71	7.77	-1.409e+05	1.613e+04	-1.974e+04
5	74	0.0	-1.228e+04	362.16	-80.70	-1.312e+05	1.445e+04	-2.123e+04
5	74	40.00	-1.201e+04	349.58	-86.53	-1.387e+05	1.138e+04	-2.141e+04
5	74	80.00	-1.177e+04	339.43	-81.39	-1.484e+05	8634.54	-2.121e+04
5	74	120.00	-1.152e+04	328.04	-77.28	-1.577e+05	5965.71	-2.119e+04
5	74	160.00	-1.126e+04	315.00	-73.01	-1.664e+05	3443.28	-2.117e+04
5	74	200.00	-1.099e+04	300.26	-54.14	-1.746e+05	1073.52	-2.114e+04
5	74	240.00	-1.071e+04	283.82	-49.98	-1.820e+05	-3923.84	-2.113e+04
5	74	280.00	-1.042e+04	266.01	-44.31	-1.887e+05	-5039.30	-2.096e+04
5	74	320.00	-1.002e+04	265.56	-32.74	-1.970e+05	-6083.67	-2.101e+04
5	74	333.33	-9109.17	-2388.40	80.44	-1.742e+05	-5784.36	-1.686e+04
5	74	346.67	-6970.01	-704.51	187.78	-6.701e+04	-2799.21	-6104.94
5	85	-113.70	-1.180e+04	67.33	19.21	-2.531e+05	4.033e+04	-6.532e+04
5	85	-55.00	-1.180e+04	67.33	19.21	-2.196e+05	3.620e+04	-3011.85
5	85	0.0	-1.255e+04	-134.36	-125.80	-2.316e+05	3.082e+04	-3640.82
5	85	40.00	-1.233e+04	-134.65	-124.98	-2.309e+05	2.579e+04	-3214.36
5	85	80.00	-1.215e+04	-131.24	-118.19	-2.284e+05	2.161e+04	-3401.41
5	85	120.00	-1.197e+04	-127.42	-114.55	-2.261e+05	1.779e+04	-3284.64
5	85	160.00	-1.180e+04	-123.00	-110.26	-2.240e+05	1.424e+04	-3295.47
5	85	200.00	-1.163e+04	-117.95	-70.57	-2.222e+05	1.098e+04	-3290.78
5	85	240.00	-1.148e+04	-112.30	-66.68	-2.207e+05	1306.18	-3285.58
5	85	280.00	-1.134e+04	-106.34	-60.95	-2.198e+05	673.04	-3257.84
5	85	320.00	-1.124e+04	-107.77	-52.07	-2.192e+05	-209.39	-3094.77
5	85	333.33	-1.005e+04	-2741.86	-14.94	-1.894e+05	-502.47	-2679.09
5	85	346.67	-7820.12	-821.17	1.21	-6.694e+04	-252.18	-699.64
5	105	-113.70	-1.201e+04	413.44	99.46	-2.661e+05	3.031e+04	-4.908e+04
5	105	-55.00	-1.201e+04	413.44	99.46	-2.411e+05	2.823e+04	9833.89
5	105	0.0	-1.264e+04	-244.34	-44.83	-2.542e+05	2.364e+04	6782.74
5	105	40.00	-1.243e+04	-236.89	-58.74	-2.511e+05	2.081e+04	7312.27
5	105	80.00	-1.227e+04	-228.94	-58.49	-2.458e+05	1.825e+04	7201.16
5	105	120.00	-1.211e+04	-220.03	-58.49	-2.408e+05	1.583e+04	7264.11
5	105	160.00	-1.196e+04	-209.79	-58.63	-2.363e+05	1.348e+04	7242.94
5	105	200.00	-1.182e+04	-198.16	-48.18	-2.323e+05	1.120e+04	7230.78
5	105	240.00	-1.169e+04	-185.18	-48.41	-2.290e+05	6959.40	7227.42
5	105	280.00	-1.158e+04	-171.19	-47.83	-2.263e+05	5374.28	7170.43
5	105	320.00	-1.155e+04	-171.69	-45.17	-2.229e+05	3603.33	7514.19
5	105	333.33	-1.068e+04	-2793.13	-56.19	-1.992e+05	2595.93	5639.73
5	105	346.67	-8377.39	-842.56	-113.13	-6.698e+04	1290.79	2655.10
5	106	-113.70	-1.103e+04	-1365.84	29.27	-1.956e+05	2.085e+04	-3.425e+04
5	106	-55.00	-1.103e+04	-1365.84	29.27	-1.557e+05	1.649e+04	-1.444e+04
5	106	0.0	-1.234e+04	274.56	-65.04	-1.489e+05	1.457e+04	-1.645e+04
5	106	40.00	-1.207e+04	265.43	-73.98	-1.548e+05	1.183e+04	-1.653e+04
5	106	80.00	-1.185e+04	258.16	-70.35	-1.624e+05	9331.32	-1.636e+04
5	106	120.00	-1.161e+04	250.00	-67.21	-1.696e+05	6884.22	-1.635e+04
5	106	160.00	-1.137e+04	240.65	-64.07	-1.764e+05	4544.56	-1.633e+04
5	106	200.00	-1.112e+04	230.05	-50.34	-1.828e+05	2318.66	-1.631e+04
5	106	240.00	-1.086e+04	218.23	-47.24	-1.888e+05	-1795.23	-1.629e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
5	106	280.00	-1.060e+04	205.41	-42.87	-1.942e+05	-3128.61	-1.616e+04
5	106	320.00	-1.025e+04	205.06	-33.22	-2.006e+05	-4403.77	-1.614e+04
5	106	333.33	-9389.81	-2443.78	58.60	-1.786e+05	-4359.78	-1.303e+04
5	106	346.67	-7221.19	-723.06	136.13	-6.700e+04	-2100.46	-4600.17
5	123	-113.70	-1.272e+04	-577.34	86.76	-2.515e+05	2.947e+04	-4.683e+04
5	123	-55.00	-1.272e+04	-577.34	86.76	-2.219e+05	2.254e+04	1505.82
5	123	0.0	-1.386e+04	62.97	-64.99	-2.233e+05	1.685e+04	-3931.42
5	123	40.00	-1.362e+04	62.97	-80.13	-2.258e+05	1.320e+04	-3709.78
5	123	80.00	-1.342e+04	62.97	-71.78	-2.283e+05	9954.94	-3559.01
5	123	120.00	-1.322e+04	62.97	-62.13	-2.308e+05	7122.55	-3547.23
5	123	160.00	-1.302e+04	62.97	-53.03	-2.333e+05	4699.76	-3546.67
5	123	200.00	-1.282e+04	62.97	-44.01	-2.358e+05	2686.57	-3546.38
5	123	240.00	-1.262e+04	62.97	-34.88	-2.383e+05	1082.98	-3543.92
5	123	280.00	-1.242e+04	62.97	-25.14	-2.409e+05	-111.02	-3524.62
5	123	320.00	-1.222e+04	62.97	-11.88	-2.434e+05	-895.41	-3394.38
5	123	333.33	-1.141e+04	-2946.56	29.09	-2.202e+05	-1046.83	-3151.73
5	123	346.67	-8956.46	-891.46	12.83	-7.671e+04	-379.16	-785.30
5	125	-113.70	-1.405e+04	-625.52	145.90	-2.775e+05	2.408e+04	-3.738e+04
5	125	-55.00	-1.405e+04	-625.52	145.90	-2.455e+05	2.090e+04	958.90
5	125	0.0	-1.534e+04	96.66	-24.29	-2.485e+05	1.792e+04	-2965.96
5	125	40.00	-1.510e+04	96.66	-47.56	-2.523e+05	1.575e+04	-2727.39
5	125	80.00	-1.490e+04	96.66	-48.08	-2.562e+05	1.358e+04	-2596.02
5	125	120.00	-1.470e+04	96.66	-47.53	-2.600e+05	1.142e+04	-2586.04
5	125	160.00	-1.450e+04	96.66	-47.43	-2.639e+05	9249.96	-2585.57
5	125	200.00	-1.430e+04	96.66	-47.40	-2.678e+05	7083.14	-2585.23
5	125	240.00	-1.410e+04	96.66	-47.30	-2.716e+05	4916.32	-2582.30
5	125	280.00	-1.390e+04	96.66	-46.83	-2.755e+05	2749.49	-2558.53
5	125	320.00	-1.370e+04	96.66	-44.19	-2.793e+05	582.67	-2381.94
5	125	333.33	-1.281e+04	-3320.44	-17.70	-2.526e+05	-154.98	-2007.94
5	125	346.67	-1.013e+04	-1025.63	-7.49	-8.729e+04	-133.20	-461.49
5	132	-113.70	-1.136e+04	-709.91	54.60	-2.216e+05	1.923e+04	-3.300e+04
5	132	-55.00	-1.136e+04	-709.91	54.60	-1.838e+05	1.658e+04	-1599.33
5	132	0.0	-1.241e+04	68.61	-25.61	-1.857e+05	1.409e+04	-5072.75
5	132	40.00	-1.217e+04	68.61	-39.94	-1.883e+05	1.228e+04	-4918.64
5	132	80.00	-1.197e+04	68.61	-40.22	-1.911e+05	1.047e+04	-4820.69
5	132	120.00	-1.177e+04	68.61	-39.73	-1.938e+05	8654.88	-4813.05
5	132	160.00	-1.157e+04	68.61	-39.62	-1.966e+05	6844.45	-4812.64
5	132	200.00	-1.137e+04	68.61	-39.56	-1.993e+05	5034.01	-4812.09
5	132	240.00	-1.117e+04	68.61	-39.31	-2.021e+05	3223.58	-4807.44
5	132	280.00	-1.097e+04	68.61	-38.14	-2.048e+05	1413.14	-4770.50
5	132	320.00	-1.077e+04	68.61	-31.74	-2.075e+05	-397.29	-4511.38
5	132	333.33	-1.004e+04	-2557.52	15.38	-1.881e+05	-1023.91	-4057.81
5	132	346.67	-7809.18	-754.49	6.00	-6.634e+04	-390.31	-875.31
5	135	-113.70	-1.196e+04	-630.27	91.50	-2.351e+05	2.058e+04	-3.364e+04
5	135	-55.00	-1.196e+04	-630.27	91.50	-2.021e+05	1.780e+04	-448.49
5	135	0.0	-1.304e+04	61.83	-24.09	-2.036e+05	1.519e+04	-3984.68
5	135	40.00	-1.280e+04	61.83	-41.70	-2.060e+05	1.330e+04	-3800.31
5	135	80.00	-1.260e+04	61.83	-42.07	-2.085e+05	1.140e+04	-3691.77
5	135	120.00	-1.240e+04	61.83	-41.57	-2.109e+05	9509.50	-3683.41
5	135	160.00	-1.220e+04	61.83	-41.47	-2.134e+05	7614.70	-3682.99
5	135	200.00	-1.200e+04	61.83	-41.42	-2.159e+05	5719.90	-3682.55
5	135	240.00	-1.180e+04	61.83	-41.25	-2.183e+05	3825.10	-3678.79
5	135	280.00	-1.160e+04	61.83	-40.42	-2.208e+05	1930.31	-3648.73
5	135	320.00	-1.140e+04	61.83	-35.83	-2.233e+05	35.51	-3433.72
5	135	333.33	-1.063e+04	-2726.87	0.70	-2.021e+05	-615.42	-3031.60
5	135	346.67	-8304.47	-818.54	-7.28e-03	-7.089e+04	-265.21	-662.63
5	137	-113.70	-1.147e+04	-582.24	85.12	-2.261e+05	2.139e+04	-3.474e+04
5	137	-55.00	-1.147e+04	-582.24	85.12	-1.958e+05	1.790e+04	-78.75
5	137	0.0	-1.248e+04	43.21	-31.24	-1.963e+05	1.480e+04	-3834.22
5	137	40.00	-1.224e+04	43.21	-47.45	-1.980e+05	1.265e+04	-3651.74
5	137	80.00	-1.204e+04	43.21	-46.06	-1.997e+05	1.057e+04	-3540.01
5	137	120.00	-1.184e+04	43.21	-43.75	-2.014e+05	8574.75	-3531.37
5	137	160.00	-1.164e+04	43.21	-41.86	-2.032e+05	6662.40	-3530.94
5	137	200.00	-1.144e+04	43.21	-40.01	-2.049e+05	4831.98	-3530.54
5	137	240.00	-1.124e+04	43.21	-38.05	-2.066e+05	3083.47	-3527.18
5	137	280.00	-1.104e+04	43.21	-35.46	-2.083e+05	1416.89	-3500.32
5	137	320.00	-1.084e+04	43.21	-29.28	-2.101e+05	-167.78	-3310.01
5	137	333.33	-1.011e+04	-2589.54	6.88	-1.901e+05	-688.86	-2956.12
5	137	346.67	-7865.70	-772.40	2.76	-6.698e+04	-280.21	-663.51
5	139	-113.70	-1.144e+04	-623.04	80.79	-2.248e+05	1.971e+04	-3.256e+04



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
5	139	-55.00	-1.144e+04	-623.04	80.79	-1.921e+05	1.703e+04	-690.58
5	139	0.0	-1.247e+04	51.55	-23.75	-1.931e+05	1.453e+04	-4114.40
5	139	40.00	-1.223e+04	51.55	-40.15	-1.951e+05	1.270e+04	-3941.85
5	139	80.00	-1.203e+04	51.55	-40.49	-1.972e+05	1.088e+04	-3838.68
5	139	120.00	-1.183e+04	51.55	-40.00	-1.992e+05	9055.61	-3830.72
5	139	160.00	-1.163e+04	51.55	-39.91	-2.013e+05	7232.25	-3830.31
5	139	200.00	-1.143e+04	51.55	-39.85	-2.033e+05	5408.88	-3829.86
5	139	240.00	-1.123e+04	51.55	-39.67	-2.054e+05	3585.51	-3826.00
5	139	280.00	-1.103e+04	51.55	-38.79	-2.075e+05	1762.15	-3795.21
5	139	320.00	-1.083e+04	51.55	-33.92	-2.095e+05	-61.22	-3576.11
5	139	333.33	-1.010e+04	-2581.44	3.93	-1.896e+05	-688.77	-3173.89
5	139	346.67	-7855.11	-768.34	1.31	-6.686e+04	-285.12	-689.67
5	140	-113.70	-1.146e+04	-601.15	87.37	-2.257e+05	1.983e+04	-3.245e+04
5	140	-55.00	-1.146e+04	-601.16	87.37	-1.943e+05	1.715e+04	-462.33
5	140	0.0	-1.248e+04	47.25	-23.29	-1.950e+05	1.464e+04	-3873.70
5	140	40.00	-1.224e+04	47.25	-40.20	-1.968e+05	1.281e+04	-3696.52
5	140	80.00	-1.204e+04	47.25	-40.55	-1.987e+05	1.098e+04	-3592.03
5	140	120.00	-1.184e+04	47.25	-40.07	-2.006e+05	9156.26	-3583.99
5	140	160.00	-1.164e+04	47.25	-39.98	-2.025e+05	7329.65	-3583.58
5	140	200.00	-1.144e+04	47.25	-39.93	-2.044e+05	5503.03	-3583.15
5	140	240.00	-1.124e+04	47.25	-39.76	-2.063e+05	3676.42	-3579.49
5	140	280.00	-1.104e+04	47.25	-38.95	-2.081e+05	1849.80	-3550.24
5	140	320.00	-1.084e+04	47.25	-34.47	-2.100e+05	23.19	-3341.20
5	140	333.33	-1.011e+04	-2587.43	1.06	-1.900e+05	-604.59	-2951.88
5	140	346.67	-7866.55	-771.83	0.13	-6.699e+04	-258.70	-643.03
5	141	-113.70	-1.146e+04	-601.15	87.37	-2.257e+05	1.983e+04	-3.245e+04
5	141	-55.00	-1.146e+04	-601.16	87.37	-1.943e+05	1.715e+04	-462.33
5	141	0.0	-1.248e+04	47.25	-23.29	-1.950e+05	1.464e+04	-3873.70
5	141	40.00	-1.224e+04	47.25	-40.20	-1.968e+05	1.281e+04	-3696.52
5	141	80.00	-1.204e+04	47.25	-40.55	-1.987e+05	1.098e+04	-3592.03
5	141	120.00	-1.184e+04	47.25	-40.07	-2.006e+05	9156.26	-3583.99
5	141	160.00	-1.164e+04	47.25	-39.98	-2.025e+05	7329.65	-3583.58
5	141	200.00	-1.144e+04	47.25	-39.93	-2.044e+05	5503.03	-3583.15
5	141	240.00	-1.124e+04	47.25	-39.76	-2.063e+05	3676.42	-3579.49
5	141	280.00	-1.104e+04	47.25	-38.95	-2.081e+05	1849.80	-3550.24
5	141	320.00	-1.084e+04	47.25	-34.47	-2.100e+05	23.19	-3341.20
5	141	333.33	-1.011e+04	-2587.43	1.06	-1.900e+05	-604.59	-2951.88
5	141	346.67	-7866.55	-771.83	0.13	-6.699e+04	-258.70	-643.03
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.069e+04	-4513.96	-165.05	-3.830e+05	-6083.67	-7.774e+04
			-6970.01	804.73	209.34	-6.451e+04	4.814e+04	1.374e+04

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	13	-113.70	-4446.86	1108.39	239.99	-1.290e+05	3604.38	-7943.84
6	13	-55.00	-3153.39	1899.09	239.99	-1.674e+05	1.432e+04	-3574.26
6	13	0.0	-1905.78	-677.76	-224.85	-1.154e+05	-2757.92	2096.96
6	13	40.00	-1650.55	-712.49	-42.76	-8.600e+04	-2473.98	-1021.36
6	13	80.00	-1681.46	-745.98	-2.69	-6.608e+04	-2381.45	-1011.60
6	13	120.00	-1878.23	-772.10	12.74	-5.156e+04	-1856.75	-544.76
6	13	160.00	-2163.91	-788.78	12.23	-3.974e+04	-1438.61	-47.50
6	13	200.00	-2504.92	-798.98	3.19	-2.960e+04	-1419.00	348.56
6	13	240.00	-2897.14	-805.31	-9.95	-2.120e+04	-1967.27	581.38
6	13	280.00	-3343.33	-827.82	-15.88	-1.452e+04	-2835.33	-44.19
6	13	320.00	-3847.20	-955.49	57.49	-7647.18	449.74	-2292.19
6	13	333.33	-3685.46	-1403.29	50.92	-4416.45	-1866.16	376.68
6	13	346.67	-2062.60	-339.41	21.12	-1.833e+04	-1316.25	641.94
6	18	-113.70	-1.079e+04	1778.94	510.03	-2.846e+05	9851.75	-2.302e+04
6	18	-55.00	-8363.44	3541.70	510.03	-3.481e+05	3.500e+04	-1.240e+04
6	18	0.0	-5701.61	-908.61	-502.24	-2.372e+05	-3231.53	604.81
6	18	40.00	-4873.57	-959.60	-102.97	-1.771e+05	-2827.86	-6538.46
6	18	80.00	-4551.51	-1001.75	-24.31	-1.354e+05	-3405.71	-6757.03
6	18	120.00	-4575.61	-1033.59	12.43	-1.060e+05	-2913.79	-6270.75

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
6	18	160.00	-4836.27	-1049.85	25.21	-8.509e+04	-1982.99	-5745.84
6	18	200.00	-5258.80	-1054.54	24.15	-7.027e+04	-1120.11	-5462.90
6	18	240.00	-5832.38	-1052.65	21.12	-6.144e+04	-374.54	-5758.41
6	18	280.00	-6587.68	-1078.75	35.10	-5.968e+04	1139.92	-7313.75
6	18	320.00	-7480.22	-1322.93	133.12	-5.935e+04	9086.56	-7560.00
6	18	333.33	-7281.82	-2559.60	-223.30	-5.396e+04	5829.11	436.19
6	18	346.67	-4681.84	-674.13	-168.98	-4.245e+04	3279.41	3350.58
6	28	-113.70	-9680.88	2140.60	523.08	-2.703e+05	8600.29	-1.910e+04
6	28	-55.00	-7184.92	3829.64	523.08	-3.496e+05	3.297e+04	-8880.05
6	28	0.0	-4636.71	-1190.59	-471.94	-2.396e+05	-3453.42	3858.61
6	28	40.00	-4029.46	-1209.93	-87.55	-1.779e+05	-2809.48	-3190.07
6	28	80.00	-3914.65	-1221.67	-12.26	-1.352e+05	-3018.55	-3785.08
6	28	120.00	-4122.56	-1220.75	20.89	-1.050e+05	-2252.68	-3838.64
6	28	160.00	-4537.75	-1203.19	31.17	-8.357e+04	-1149.31	-4019.62
6	28	200.00	-5090.08	-1174.11	30.08	-6.855e+04	-123.83	-4605.43
6	28	240.00	-5770.56	-1138.49	28.20	-5.997e+04	809.38	-5885.63
6	28	280.00	-6604.99	-1129.82	40.60	-5.870e+04	2407.77	-8428.22
6	28	320.00	-7542.33	-1334.12	126.53	-5.897e+04	9891.72	-9277.38
6	28	333.33	-7323.83	-2562.04	-252.46	-5.350e+04	5937.00	-1054.62
6	28	346.67	-4699.91	-676.67	-185.94	-4.264e+04	3221.91	2938.49
6	50	-113.70	-1.074e+04	736.91	376.88	-2.114e+05	1.533e+04	-2.842e+04
6	50	-55.00	-9364.38	1682.88	376.88	-2.471e+05	2.799e+04	-1.194e+04
6	50	0.0	-7706.96	-295.14	-467.32	-1.636e+05	5693.24	-4059.91
6	50	40.00	-6278.52	-356.99	-81.96	-1.163e+05	283.79	-1.248e+04
6	50	80.00	-5527.68	-369.84	-29.15	-8.649e+04	-511.90	-1.464e+04
6	50	120.00	-5068.89	-389.33	-2.31	-6.562e+04	-713.60	-1.536e+04
6	50	160.00	-4803.63	-325.24	7.15	-5.062e+04	-684.38	-1.581e+04
6	50	200.00	-4680.10	-342.28	8.36	-3.991e+04	-455.97	-1.617e+04
6	50	240.00	-4683.92	-353.70	12.60	-3.312e+04	-249.61	-1.674e+04
6	50	280.00	-4830.24	-379.84	13.44	-3.045e+04	374.45	-1.644e+04
6	50	320.00	-5062.21	-542.08	85.29	-2.948e+04	5301.24	-1.360e+04
6	50	333.33	-4750.20	-1393.57	-267.21	-2.985e+04	-586.77	-5546.23
6	50	346.67	-3164.34	-265.14	-181.08	-2.021e+04	-783.27	-2540.71
6	51	-113.70	-1668.60	1600.90	228.62	-1.280e+05	-4168.10	2051.38
6	51	-55.00	-89.56	2740.23	228.62	-1.712e+05	1.264e+04	-1784.40
6	51	0.0	1522.01	-1004.10	-129.30	-1.224e+05	-1.040e+04	5730.61
6	51	40.00	1006.25	-1021.80	-38.69	-9.609e+04	-4293.85	5844.33
6	51	80.00	535.73	-1061.62	4.61	-7.452e+04	-3917.18	7941.09
6	51	120.00	-55.91	-1082.73	20.34	-5.853e+04	-3006.63	9490.36
6	51	160.00	-720.19	-1166.56	23.08	-4.609e+04	-2042.88	1.080e+04
6	51	200.00	-1416.33	-1154.64	17.41	-3.585e+04	-1414.49	1.170e+04
6	51	240.00	-2137.83	-1139.92	12.54	-2.779e+04	-1169.80	1.206e+04
6	51	280.00	-2885.80	-1142.66	4.23	-2.218e+04	-846.80	1.054e+04
6	51	320.00	-3652.92	-1245.04	60.34	-1.509e+04	2898.82	6117.85
6	51	333.33	-3649.07	-1607.53	91.22	-8297.55	4322.83	6120.21
6	51	346.67	-1896.58	-482.89	51.04	-2.425e+04	2773.74	5518.43
6	54	-113.70	-1.097e+04	614.40	378.08	-2.112e+05	1.552e+04	-2.824e+04
6	54	-55.00	-9599.17	1557.08	378.08	-2.461e+05	2.812e+04	-1.185e+04
6	54	0.0	-7988.81	-251.87	-466.17	-1.608e+05	5878.03	-3974.21
6	54	40.00	-6511.87	-299.10	-81.52	-1.138e+05	304.05	-1.241e+04
6	54	80.00	-5716.73	-315.08	-29.76	-8.440e+04	-590.03	-1.458e+04
6	54	120.00	-5211.45	-336.48	-3.42	-6.386e+04	-813.16	-1.529e+04
6	54	160.00	-4900.61	-275.80	5.03	-4.914e+04	-747.57	-1.567e+04
6	54	200.00	-4734.21	-296.86	4.08	-3.865e+04	-643.72	-1.587e+04
6	54	240.00	-4699.04	-313.05	-2.47	-3.204e+04	-624.84	-1.605e+04
6	54	280.00	-4811.48	-345.72	13.18	-2.953e+04	-263.54	-1.589e+04
6	54	320.00	-5028.69	-519.57	83.04	-2.860e+04	4505.21	-1.292e+04
6	54	333.33	-4709.80	-1370.47	-233.76	-2.915e+04	-818.91	-5008.55
6	54	346.67	-3130.76	-259.79	-170.09	-2.011e+04	-987.07	-2384.31
6	73	-113.70	-6332.52	3236.31	410.87	-2.364e+05	1.109e+04	-1.710e+04
6	73	-55.00	-4760.41	4301.59	410.87	-2.862e+05	2.609e+04	-2273.57
6	73	0.0	-1848.74	-1220.60	-429.61	-2.378e+05	1991.97	8321.75
6	73	40.00	-1292.32	-1481.42	-66.38	-1.851e+05	-1978.58	4068.42
6	73	80.00	-1343.85	-1462.51	-4.19	-1.447e+05	-2618.77	4531.36
6	73	120.00	-1706.96	-1481.50	28.85	-1.150e+05	-1791.65	5372.61
6	73	160.00	-2286.34	-1445.97	53.93	-9.257e+04	4.19	5311.12
6	73	200.00	-3031.90	-1422.08	85.33	-7.621e+04	2834.19	3486.69
6	73	240.00	-3913.94	-1379.53	147.56	-6.550e+04	7376.41	-1215.05
6	73	280.00	-4887.70	-1319.82	186.19	-6.008e+04	1.430e+04	-9917.62
6	73	320.00	-5871.05	-1312.13	155.95	-5.198e+04	2.388e+04	-7426.44



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
6	73	333.33	-5637.30	-1928.09	-911.71	-4.893e+04	9831.86	494.72
6	73	346.67	-3916.65	-472.03	-524.91	-2.392e+04	6430.02	1351.38
6	82	-113.70	-9535.29	821.34	355.56	-1.997e+05	1.265e+04	-2.418e+04
6	82	-55.00	-8140.24	1789.61	355.56	-2.355e+05	2.586e+04	-1.053e+04
6	82	0.0	-6501.78	-380.99	-419.95	-1.566e+05	3494.11	-2724.52
6	82	40.00	-5333.04	-434.79	-75.83	-1.124e+05	-339.01	-9964.17
6	82	80.00	-4741.90	-451.72	-24.54	-8.388e+04	-984.40	-1.155e+04
6	82	120.00	-4418.49	-471.64	0.66	-6.384e+04	-1035.52	-1.196e+04
6	82	160.00	-4271.74	-428.32	9.05	-4.934e+04	-870.39	-1.216e+04
6	82	200.00	-4251.83	-441.86	9.02	-3.883e+04	-601.60	-1.233e+04
6	82	240.00	-4345.81	-450.30	10.50	-3.200e+04	-412.68	-1.272e+04
6	82	280.00	-4567.32	-474.12	12.17	-2.907e+04	133.29	-1.271e+04
6	82	320.00	-4868.56	-630.14	81.35	-2.739e+04	4857.34	-1.086e+04
6	82	333.33	-4595.13	-1416.14	-212.74	-2.691e+04	60.27	-3937.09
6	82	346.67	-2988.05	-291.76	-147.59	-2.076e+04	-315.73	-1411.10
6	83	-113.70	-2962.41	1450.46	248.50	-1.393e+05	-1443.68	-2151.67
6	83	-55.00	-1420.02	2558.76	248.50	-1.808e+05	1.475e+04	-3168.85
6	83	0.0	187.29	-895.94	-175.22	-1.270e+05	-8144.74	4378.45
6	83	40.00	-51.61	-917.79	-44.42	-9.802e+04	-3649.40	3307.06
6	83	80.00	-345.74	-954.27	-0.05	-7.548e+04	-3446.18	4806.41
6	83	120.00	-784.03	-975.39	17.14	-5.895e+04	-2690.06	6034.74
6	83	160.00	-1311.71	-1039.40	20.74	-4.628e+04	-1847.86	7096.24
6	83	200.00	-1886.88	-1032.16	15.87	-3.609e+04	-1285.57	7829.18
6	83	240.00	-2502.17	-1021.75	10.94	-2.833e+04	-1060.77	8082.23
6	83	280.00	-3160.90	-1028.49	5.97	-2.325e+04	-718.31	6770.12
6	83	320.00	-3850.21	-1140.62	63.51	-1.713e+04	3165.95	3383.47
6	83	333.33	-3804.30	-1572.73	44.11	-1.136e+04	3632.56	4512.05
6	83	346.67	-2075.05	-449.99	19.19	-2.369e+04	2268.10	4409.07
6	86	-113.70	-9705.63	730.71	356.51	-1.996e+05	1.279e+04	-2.407e+04
6	86	-55.00	-8316.72	1696.57	356.51	-2.348e+05	2.596e+04	-1.048e+04
6	86	0.0	-6711.95	-349.01	-419.15	-1.545e+05	3633.81	-2669.58
6	86	40.00	-5507.02	-392.16	-75.52	-1.105e+05	-321.59	-9922.96
6	86	80.00	-4882.91	-411.34	-25.00	-8.233e+04	-1038.95	-1.152e+04
6	86	120.00	-4524.98	-432.61	-0.16	-6.253e+04	-1106.01	-1.192e+04
6	86	160.00	-4344.45	-391.76	7.51	-4.823e+04	-915.38	-1.208e+04
6	86	200.00	-4292.78	-408.20	5.92	-3.788e+04	-737.10	-1.214e+04
6	86	240.00	-4357.84	-420.10	-0.40	-3.119e+04	-685.03	-1.225e+04
6	86	280.00	-4554.17	-448.64	11.89	-2.838e+04	-331.67	-1.233e+04
6	86	320.00	-4844.15	-613.07	79.67	-2.673e+04	4273.94	-1.039e+04
6	86	333.33	-4565.71	-1398.79	-188.29	-2.638e+04	-117.07	-3569.81
6	86	346.67	-2963.47	-287.60	-139.52	-2.069e+04	-468.07	-1304.81
6	105	-113.70	-6342.91	2629.45	380.60	-2.178e+05	9577.86	-1.600e+04
6	105	-55.00	-4805.78	3685.00	380.60	-2.639e+05	2.447e+04	-3527.98
6	105	0.0	-2259.98	-1051.23	-392.08	-2.104e+05	808.62	6247.58
6	105	40.00	-1723.95	-1248.52	-64.47	-1.623e+05	-1970.59	2030.58
6	105	80.00	-1714.34	-1242.69	-6.43	-1.261e+05	-2506.89	2352.59
6	105	120.00	-1986.39	-1262.36	23.29	-9.968e+04	-1810.85	3069.78
6	105	160.00	-2451.82	-1239.93	43.08	-7.982e+04	-364.42	3140.20
6	105	200.00	-3062.01	-1223.99	65.07	-6.523e+04	1797.37	1897.59
6	105	240.00	-3792.73	-1193.44	108.75	-5.557e+04	5141.03	-1513.80
6	105	280.00	-4614.13	-1155.01	137.80	-5.067e+04	1.027e+04	-8029.80
6	105	320.00	-5458.79	-1187.65	132.75	-4.385e+04	1.838e+04	-6417.98
6	105	333.33	-5243.15	-1804.21	-682.37	-4.085e+04	7640.52	434.25
6	105	346.67	-3537.90	-441.76	-398.04	-2.347e+04	4931.21	1403.99
6	116	-113.70	-5156.26	1125.62	266.58	-1.447e+05	4401.37	-9928.65
6	116	-55.00	-3781.16	2015.31	266.58	-1.840e+05	1.673e+04	-4800.01
6	116	0.0	-2377.71	-660.74	-254.61	-1.259e+05	-2627.82	1711.41
6	116	40.00	-2036.15	-695.63	-49.61	-9.361e+04	-2341.34	-1838.73
6	116	80.00	-1996.42	-727.75	-6.17	-7.156e+04	-2368.03	-1847.91
6	116	120.00	-2139.01	-752.64	11.46	-5.562e+04	-1899.23	-1392.24
6	116	160.00	-2387.86	-767.87	13.14	-4.313e+04	-1440.19	-908.30
6	116	200.00	-2705.09	-776.34	6.11	-3.292e+04	-1292.91	-535.82
6	116	240.00	-3084.51	-780.80	-4.50	-2.494e+04	-1600.43	-369.32
6	116	280.00	-3531.26	-801.68	-7.19	-1.930e+04	-2047.97	-1041.64
6	116	320.00	-4040.19	-934.22	63.12	-1.366e+04	1614.09	-2791.87
6	116	333.33	-3879.46	-1446.40	8.02	-1.043e+04	-620.15	382.70
6	116	346.67	-2247.95	-355.55	-7.44	-2.000e+04	-556.22	965.17
6	120	-113.70	-7959.96	1291.57	373.44	-2.098e+05	7210.42	-1.682e+04
6	120	-55.00	-6184.02	2583.26	373.44	-2.556e+05	2.559e+04	-9021.49
6	120	0.0	-4238.02	-682.27	-367.97	-1.740e+05	-2415.09	475.60



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
6	120	40.00	-3630.79	-719.74	-75.33	-1.297e+05	-2115.16	-4752.68
6	120	80.00	-3397.88	-750.98	-17.57	-9.897e+04	-2528.17	-4909.58
6	120	120.00	-3419.33	-774.60	9.35	-7.727e+04	-2155.97	-4544.21
6	120	160.00	-3613.46	-786.74	18.50	-6.177e+04	-1472.08	-4145.87
6	120	200.00	-3925.12	-790.41	17.37	-5.066e+04	-853.17	-3920.97
6	120	240.00	-4346.14	-789.27	14.67	-4.389e+04	-341.27	-4113.61
6	120	280.00	-4897.97	-808.97	24.46	-4.219e+04	707.95	-5237.00
6	120	320.00	-5546.53	-989.03	97.31	-4.135e+04	6506.14	-5484.52
6	120	333.33	-5390.71	-1885.95	-157.69	-3.746e+04	4098.82	321.25
6	120	346.67	-3430.00	-489.71	-119.98	-3.088e+04	2296.50	2414.53
6	125	-113.70	-7223.75	1532.28	382.11	-2.002e+05	6375.55	-1.421e+04
6	125	-55.00	-5398.46	2774.64	382.11	-2.566e+05	2.424e+04	-6674.90
6	125	0.0	-3528.37	-870.13	-347.74	-1.755e+05	-2563.33	2646.15
6	125	40.00	-3068.29	-886.50	-65.04	-1.302e+05	-2103.25	-2518.59
6	125	80.00	-2973.50	-897.48	-9.54	-9.879e+04	-2270.36	-2926.36
6	125	120.00	-3117.41	-899.25	14.99	-7.661e+04	-1715.61	-2920.76
6	125	160.00	-3414.44	-888.85	22.47	-6.073e+04	-917.01	-2992.83
6	125	200.00	-3812.47	-870.00	21.31	-4.950e+04	-190.46	-3346.75
6	125	240.00	-4304.57	-846.38	19.36	-4.289e+04	445.05	-4195.32
6	125	280.00	-4908.93	-842.90	28.07	-4.151e+04	1547.72	-5976.70
6	125	320.00	-5587.18	-996.35	92.89	-4.106e+04	7035.72	-6629.55
6	125	333.33	-5417.89	-1887.20	-176.88	-3.712e+04	4162.80	-674.85
6	125	346.67	-3441.20	-491.27	-131.12	-3.100e+04	2252.97	2135.86
6	135	-113.70	-6540.66	1109.73	310.55	-1.745e+05	5848.71	-1.352e+04
6	135	-55.00	-5036.78	2175.76	310.55	-2.133e+05	2.093e+04	-7045.69
6	135	0.0	-3393.69	-631.73	-305.69	-1.445e+05	-2324.25	836.43
6	135	40.00	-2899.39	-665.37	-61.70	-1.071e+05	-2047.27	-3455.82
6	135	80.00	-2732.15	-694.14	-12.74	-8.120e+04	-2306.52	-3517.50
6	135	120.00	-2776.86	-716.05	9.04	-6.275e+04	-1940.66	-3108.69
6	135	160.00	-2959.55	-728.05	14.99	-4.913e+04	-1393.90	-2666.59
6	135	200.00	-3234.16	-732.82	11.88	-3.888e+04	-990.75	-2352.83
6	135	240.00	-3591.85	-733.49	6.46	-3.185e+04	-812.27	-2334.76
6	135	280.00	-4043.87	-751.69	10.75	-2.837e+04	-391.32	-3123.24
6	135	320.00	-4564.85	-898.05	75.91	-2.512e+04	4106.09	-3846.42
6	135	333.33	-4402.81	-1557.47	-82.87	-2.199e+04	2023.15	424.26
6	135	346.67	-2682.73	-387.40	-67.96	-2.370e+04	1053.78	1673.24
6	136	-113.70	-6108.58	1069.14	293.35	-1.641e+05	5407.76	-1.246e+04
6	136	-55.00	-4677.47	2068.34	293.35	-2.013e+05	1.954e+04	-6399.58
6	136	0.0	-3122.72	-621.46	-287.26	-1.362e+05	-2325.73	1005.73
6	136	40.00	-2665.84	-654.51	-57.55	-1.008e+05	-2049.03	-3025.45
6	136	80.00	-2523.20	-683.12	-11.07	-7.639e+04	-2253.62	-3073.21
6	136	120.00	-2580.43	-705.00	9.20	-5.888e+04	-1880.16	-2663.68
6	136	160.00	-2765.12	-717.35	14.08	-4.579e+04	-1371.05	-2222.34
6	136	200.00	-3033.92	-722.80	10.21	-3.571e+04	-1037.42	-1899.26
6	136	240.00	-3378.08	-724.33	3.74	-2.852e+04	-975.49	-1838.42
6	136	280.00	-3805.97	-742.51	6.13	-2.444e+04	-774.61	-2558.44
6	136	320.00	-4296.02	-879.91	69.77	-2.042e+04	3337.76	-3485.98
6	136	333.33	-4132.71	-1472.58	-57.72	-1.744e+04	1303.02	353.23
6	136	346.67	-2474.41	-361.70	-50.76	-2.175e+04	623.21	1419.10
6	137	-113.70	-6563.72	1045.00	307.26	-1.733e+05	5865.47	-1.362e+04
6	137	-55.00	-5104.62	2095.36	307.26	-2.097e+05	2.088e+04	-7141.57
6	137	0.0	-3477.04	-602.27	-302.71	-1.413e+05	-2179.31	691.78
6	137	40.00	-2964.98	-634.73	-61.24	-1.045e+05	-1901.00	-3588.31
6	137	80.00	-2773.15	-661.90	-13.34	-7.884e+04	-2188.51	-3673.25
6	137	120.00	-2789.59	-682.56	8.21	-6.058e+04	-1858.44	-3305.88
6	137	160.00	-2943.57	-693.73	14.62	-4.717e+04	-1323.50	-2907.08
6	137	200.00	-3189.11	-697.95	12.27	-3.714e+04	-899.78	-2632.58
6	137	240.00	-3516.23	-698.27	7.74	-3.029e+04	-663.16	-2649.70
6	137	280.00	-3934.91	-715.29	12.43	-2.691e+04	-163.42	-3419.89
6	137	320.00	-4415.93	-854.94	72.63	-2.361e+04	4132.26	-3973.38
6	137	333.33	-4251.58	-1485.56	-87.93	-2.074e+04	2169.57	193.42
6	137	346.67	-2580.66	-364.83	-70.81	-2.258e+04	1161.63	1597.67
6	140	-113.70	-6347.52	1056.06	300.15	-1.689e+05	5661.43	-1.309e+04
6	140	-55.00	-4901.68	2083.15	300.15	-2.058e+05	2.025e+04	-6805.57
6	140	0.0	-3308.50	-611.91	-295.51	-1.389e+05	-2249.00	824.33
6	140	40.00	-2822.72	-644.49	-59.56	-1.027e+05	-1974.87	-3329.05
6	140	80.00	-2654.31	-672.22	-12.31	-7.764e+04	-2224.39	-3387.20
6	140	120.00	-2690.20	-693.35	8.63	-5.973e+04	-1875.00	-2989.93
6	140	160.00	-2858.90	-704.97	14.31	-4.648e+04	-1353.38	-2559.90
6	140	200.00	-3115.66	-709.66	11.24	-3.644e+04	-973.18	-2249.72



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
6	140	240.00	-3451.08	-710.44	5.79	-2.944e+04	-819.13	-2215.68
6	140	280.00	-3874.37	-727.92	9.45	-2.575e+04	-456.94	-2947.67
6	140	320.00	-4359.88	-866.57	71.41	-2.212e+04	3766.45	-3668.73
6	140	333.33	-4195.95	-1479.48	-74.06	-1.921e+04	1780.74	336.03
6	140	346.67	-2531.28	-363.10	-61.56	-2.219e+04	917.06	1530.52
6	141	-113.70	-6347.52	1056.06	300.15	-1.689e+05	5661.43	-1.309e+04
6	141	-55.00	-4901.68	2083.15	300.15	-2.058e+05	2.025e+04	-6805.57
6	141	0.0	-3308.50	-611.91	-295.51	-1.389e+05	-2249.00	824.33
6	141	40.00	-2822.72	-644.49	-59.56	-1.027e+05	-1974.87	-3329.05
6	141	80.00	-2654.31	-672.22	-12.31	-7.764e+04	-2224.39	-3387.20
6	141	120.00	-2690.20	-693.35	8.63	-5.973e+04	-1875.00	-2989.93
6	141	160.00	-2858.90	-704.97	14.31	-4.648e+04	-1353.38	-2559.90
6	141	200.00	-3115.66	-709.66	11.24	-3.644e+04	-973.18	-2249.72
6	141	240.00	-3451.08	-710.44	5.79	-2.944e+04	-819.13	-2215.68
6	141	280.00	-3874.37	-727.92	9.45	-2.575e+04	-456.94	-2947.67
6	141	320.00	-4359.88	-866.57	71.41	-2.212e+04	3766.45	-3668.73
6	141	333.33	-4195.95	-1479.48	-74.06	-1.921e+04	1780.74	336.03
6	141	346.67	-2531.28	-363.10	-61.56	-2.219e+04	917.06	1530.52
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.097e+04	-2562.04	-911.71	-3.496e+05	-1.040e+04	-2.842e+04
			1522.01	4301.59	523.08	-4416.45	3.500e+04	1.206e+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	8	-113.70	-1.122e+04	1768.60	-519.33	-2.940e+05	-1.050e+04	2.482e+04
7	8	-55.00	-8767.45	3601.80	-519.33	-3.577e+05	-3.657e+04	1.389e+04
7	8	0.0	-6015.68	-897.41	521.89	-2.431e+05	3025.64	591.07
7	8	40.00	-5134.22	-947.24	108.03	-1.813e+05	2643.16	8073.06
7	8	80.00	-4765.75	-987.15	27.12	-1.383e+05	3313.15	8364.25
7	8	120.00	-4751.84	-1016.70	-11.05	-1.080e+05	2873.36	7937.02
7	8	160.00	-4983.95	-1030.71	-25.17	-8.667e+04	1933.79	7456.79
7	8	200.00	-5384.64	-1033.25	-25.26	-7.177e+04	1012.51	7204.55
7	8	240.00	-5941.79	-1029.33	-23.53	-6.318e+04	150.67	7531.03
7	8	280.00	-6687.70	-1053.55	-38.88	-6.201e+04	-1559.03	9059.06
7	8	320.00	-7571.94	-1299.78	-134.11	-6.238e+04	-9573.19	8861.21
7	8	333.33	-7379.36	-2578.06	242.90	-5.696e+04	-6330.91	480.17
7	8	346.67	-4772.22	-679.40	184.32	-4.326e+04	-3663.35	-3329.05
7	12	-113.70	-1.121e+04	1525.48	-500.16	-2.878e+05	-1.057e+04	2.514e+04
7	12	-55.00	-8930.86	3295.44	-500.16	-3.423e+05	-3.609e+04	1.423e+04
7	12	0.0	-6249.46	-793.42	508.62	-2.300e+05	2535.55	1206.41
7	12	40.00	-5312.41	-838.01	106.00	-1.702e+05	2167.01	8537.42
7	12	80.00	-4861.42	-871.38	29.18	-1.284e+05	2932.85	8845.69
7	12	120.00	-4749.22	-895.70	-7.76	-9.891e+04	2628.43	8494.66
7	12	160.00	-4878.90	-906.08	-23.11	-7.840e+04	1755.44	8085.65
7	12	200.00	-5173.59	-906.01	-25.35	-6.431e+04	804.62	7870.65
7	12	240.00	-5616.83	-900.25	-26.09	-5.629e+04	-194.44	8193.68
7	12	280.00	-6235.76	-919.83	-42.26	-5.527e+04	-2089.08	9528.77
7	12	320.00	-6969.03	-1139.98	-121.23	-5.533e+04	-9356.82	8787.47
7	12	333.33	-6767.29	-2297.96	250.80	-5.088e+04	-6604.29	968.04
7	12	346.67	-4347.20	-591.66	187.62	-3.871e+04	-3879.70	-3020.72
7	25	-113.70	-4835.01	1101.15	-244.45	-1.375e+05	-4276.09	9673.56
7	25	-55.00	-3504.50	1962.65	-244.45	-1.762e+05	-1.570e+04	4946.72
7	25	0.0	-2175.97	-673.68	243.25	-1.208e+05	2610.90	-1010.61
7	25	40.00	-1875.29	-706.13	47.58	-8.977e+04	2364.05	2320.52
7	25	80.00	-1866.73	-736.69	5.44	-6.858e+04	2360.20	2285.27
7	25	120.00	-2031.89	-759.96	-11.26	-5.322e+04	1887.48	1777.27
7	25	160.00	-2295.03	-773.77	-11.93	-4.104e+04	1464.09	1217.40
7	25	200.00	-2619.88	-781.16	-3.89	-3.091e+04	1390.63	734.95
7	25	240.00	-3001.04	-784.83	7.91	-2.283e+04	1817.88	407.38
7	25	280.00	-3442.68	-805.08	11.82	-1.684e+04	2445.78	888.09
7	25	320.00	-3941.89	-935.01	-60.19	-1.069e+04	-1063.79	2645.68
7	25	333.33	-3784.91	-1422.41	-26.45	-7466.32	1122.17	-311.07
7	25	346.67	-2155.07	-345.08	-3.58	-1.913e+04	825.99	-839.10



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
7	28	-113.70	-9987.76	2145.00	-533.18	-2.771e+05	-8999.83	2.034e+04
7	28	-55.00	-7465.09	3882.32	-533.18	-3.571e+05	-3.415e+04	9997.92
7	28	0.0	-4851.62	-1182.14	485.75	-2.445e+05	3255.57	-2906.51
7	28	40.00	-4207.49	-1201.65	91.05	-1.817e+05	2612.93	4477.06
7	28	80.00	-4061.15	-1212.61	14.09	-1.380e+05	2882.71	5214.55
7	28	120.00	-4243.71	-1210.76	-20.22	-1.073e+05	2144.87	5405.27
7	28	160.00	-4640.45	-1192.29	-31.65	-8.549e+04	1021.35	5723.16
7	28	200.00	-5179.49	-1162.40	-31.66	-7.039e+04	-67.50	6450.97
7	28	240.00	-5851.27	-1126.02	-30.99	-6.195e+04	-1111.66	7887.48
7	28	280.00	-6682.94	-1116.40	-44.16	-6.108e+04	-2860.46	1.053e+04
7	28	320.00	-7617.71	-1322.49	-126.29	-6.179e+04	-1.028e+04	1.105e+04
7	28	333.33	-7406.06	-2584.96	267.32	-5.626e+04	-6244.13	2412.60
7	28	346.67	-4779.28	-683.22	198.21	-4.336e+04	-3503.78	-2804.60
7	52	-113.70	-1.116e+04	637.01	-387.15	-2.154e+05	-1.591e+04	2.971e+04
7	52	-55.00	-9761.41	1619.45	-387.15	-2.513e+05	-2.898e+04	1.309e+04
7	52	0.0	-8098.04	-245.97	474.44	-1.637e+05	-6078.65	5288.53
7	52	40.00	-6602.29	-291.60	83.90	-1.159e+05	-530.90	1.387e+04
7	52	80.00	-5791.94	-308.27	31.36	-8.598e+04	453.31	1.616e+04
7	52	120.00	-5267.77	-330.24	4.82	-6.498e+04	673.52	1.698e+04
7	52	160.00	-4938.15	-266.93	-3.55	-4.995e+04	685.62	1.745e+04
7	52	200.00	-4755.29	-285.80	-1.94	-3.930e+04	605.08	1.766e+04
7	52	240.00	-4707.21	-300.78	-2.29	-3.269e+04	635.77	1.778e+04
7	52	280.00	-4811.46	-333.59	-7.96	-3.038e+04	358.78	1.766e+04
7	52	320.00	-5029.56	-510.50	-79.41	-2.956e+04	-4220.47	1.443e+04
7	52	333.33	-4714.99	-1389.67	216.30	-3.007e+04	870.65	6321.30
7	52	346.67	-3132.98	-266.71	162.21	-2.067e+04	949.20	2481.41
7	53	-113.70	-1938.53	1579.69	-233.15	-1.338e+05	3933.30	-1545.57
7	53	-55.00	-347.38	2752.51	-233.15	-1.769e+05	-1.357e+04	2349.18
7	53	0.0	1308.10	-996.08	141.94	-1.266e+05	1.029e+04	-5433.77
7	53	40.00	829.00	-1015.67	41.72	-9.943e+04	4214.48	-5178.00
7	53	80.00	390.74	-1053.61	-3.41	-7.704e+04	3839.32	-7165.23
7	53	120.00	-181.31	-1072.64	-20.70	-6.059e+04	2974.07	-8615.25
7	53	160.00	-835.96	-1157.63	-25.22	-4.801e+04	1904.46	-9787.33
7	53	200.00	-1527.60	-1146.61	-21.83	-3.783e+04	1162.57	-1.049e+04
7	53	240.00	-2247.67	-1131.89	-11.75	-2.998e+04	712.90	-1.053e+04
7	53	280.00	-2998.17	-1132.99	-14.31	-2.479e+04	104.69	-8901.02
7	53	320.00	-3759.22	-1234.81	-63.01	-1.827e+04	-3695.56	-4723.98
7	53	333.33	-3762.59	-1621.65	-53.94	-1.140e+04	-4736.80	-5167.69
7	53	346.67	-2009.27	-485.68	-25.91	-2.476e+04	-3112.05	-5346.36
7	75	-113.70	-6522.12	3196.40	-412.30	-2.382e+05	-1.101e+04	1.658e+04
7	75	-55.00	-4930.42	4293.91	-412.30	-2.889e+05	-2.681e+04	2932.39
7	75	0.0	-2040.54	-1196.39	447.01	-2.389e+05	-1939.30	-7969.83
7	75	40.00	-1441.26	-1453.87	70.21	-1.855e+05	2011.44	-3372.46
7	75	80.00	-1445.75	-1435.47	5.69	-1.443e+05	2596.15	-3724.95
7	75	120.00	-1783.44	-1453.84	-28.50	-1.145e+05	1925.48	-4502.55
7	75	160.00	-2350.87	-1420.25	-54.31	-9.231e+04	-76.59	-4377.39
7	75	200.00	-3087.32	-1395.81	-86.21	-7.630e+04	-2942.29	-2492.43
7	75	240.00	-3959.70	-1353.31	-121.49	-6.598e+04	-7553.94	2187.73
7	75	280.00	-4925.23	-1294.09	-189.53	-6.103e+04	-1.457e+04	9997.88
7	75	320.00	-5878.60	-1289.07	-155.12	-5.373e+04	-2.413e+04	7500.28
7	75	333.33	-5647.76	-1921.90	920.63	-5.034e+04	-1.003e+04	-535.69
7	75	346.67	-3937.78	-469.55	539.27	-2.437e+04	-6565.37	-1326.10
7	84	-113.70	-9892.45	754.24	-365.11	-2.040e+05	-1.316e+04	2.538e+04
7	84	-55.00	-8477.00	1760.01	-365.11	-2.403e+05	-2.682e+04	1.160e+04
7	84	0.0	-6819.38	-345.37	428.05	-1.579e+05	-3814.29	3815.75
7	84	40.00	-5595.15	-387.53	77.97	-1.130e+05	122.41	1.124e+04
7	84	80.00	-4955.45	-407.08	26.50	-8.427e+04	915.66	1.294e+04
7	84	120.00	-4580.75	-428.58	1.26	-6.399e+04	984.93	1.346e+04
7	84	160.00	-4385.03	-385.60	-6.59	-4.938e+04	844.94	1.370e+04
7	84	200.00	-4320.96	-400.38	-4.78	-3.888e+04	668.50	1.380e+04
7	84	240.00	-4377.15	-411.29	-3.78	-3.220e+04	624.77	1.390e+04
7	84	280.00	-4569.18	-439.72	-9.03	-2.960e+04	292.71	1.403e+04
7	84	320.00	-4861.19	-606.62	-77.16	-2.809e+04	-4172.79	1.183e+04
7	84	333.33	-4587.14	-1419.59	179.51	-2.768e+04	70.83	4774.32
7	84	346.67	-2982.85	-295.03	136.91	-2.126e+04	369.60	1391.18
7	85	-113.70	-3224.83	1430.67	-253.38	-1.449e+05	1185.48	2796.00
7	85	-55.00	-1671.01	2572.12	-253.38	-1.862e+05	-1.565e+04	3836.60
7	85	0.0	-20.02	-886.64	187.10	-1.308e+05	8015.79	-3923.21
7	85	40.00	-223.88	-909.76	47.35	-1.010e+05	3546.73	-2511.68
7	85	80.00	-487.23	-944.70	1.31	-7.767e+04	3357.93	-3897.87



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
7	85	120.00	-904.91	-964.12	-17.24	-6.071e+04	2640.91	-5022.65
7	85	160.00	-1420.35	-1028.79	-22.33	-4.789e+04	1719.46	-5954.55
7	85	200.00	-1987.93	-1021.93	-19.28	-3.775e+04	1064.92	-6507.85
7	85	240.00	-2598.69	-1011.31	-10.71	-3.019e+04	675.90	-6507.11
7	85	280.00	-3256.90	-1016.66	-13.72	-2.551e+04	109.83	-5095.76
7	85	320.00	-3939.72	-1128.82	-65.12	-1.992e+04	-3783.86	-1950.12
7	85	333.33	-3901.09	-1585.90	-15.39	-1.408e+04	-3956.11	-3479.91
7	85	346.67	-2170.31	-452.59	0.71	-2.419e+04	-2548.97	-4234.41
7	107	-113.70	-6532.34	2607.25	-383.46	-2.204e+05	-9602.45	1.587e+04
7	107	-55.00	-4973.56	3696.87	-383.46	-2.676e+05	-2.523e+04	4255.48
7	107	0.0	-2428.76	-1034.27	407.56	-2.124e+05	-809.30	-5764.31
7	107	40.00	-1855.55	-1229.29	67.98	-1.635e+05	1957.15	-1231.15
7	107	80.00	-1807.03	-1223.64	7.87	-1.266e+05	2465.01	-1445.77
7	107	120.00	-2057.05	-1242.65	-22.93	-9.993e+04	1886.06	-2090.87
7	107	160.00	-2511.63	-1221.21	-43.47	-8.015e+04	286.08	-2089.61
7	107	200.00	-3114.25	-1204.71	-66.02	-6.579e+04	-1916.41	-777.02
7	107	240.00	-3838.12	-1174.04	-90.34	-5.644e+04	-5336.69	2642.99
7	107	280.00	-4655.00	-1135.78	-141.03	-5.194e+04	-1.057e+04	8535.62
7	107	320.00	-5479.29	-1170.68	-132.08	-4.576e+04	-1.866e+04	6834.99
7	107	333.33	-5268.12	-1806.54	692.47	-4.248e+04	-7864.10	-188.32
7	107	346.67	-3570.06	-442.59	410.93	-2.397e+04	-5098.68	-1364.34
7	115	-113.70	-8280.94	1284.25	-380.47	-2.167e+05	-7681.01	1.814e+04
7	115	-55.00	-6479.56	2627.08	-380.47	-2.626e+05	-2.674e+04	1.012e+04
7	115	0.0	-4468.05	-673.78	382.27	-1.783e+05	2259.40	410.73
7	115	40.00	-3821.74	-710.49	79.01	-1.328e+05	1973.89	5894.55
7	115	80.00	-3554.87	-740.16	19.61	-1.011e+05	2453.98	6112.97
7	115	120.00	-3548.48	-762.17	-8.36	-7.878e+04	2119.34	5799.63
7	115	160.00	-3721.67	-772.73	-18.51	-6.296e+04	1428.24	5443.59
7	115	200.00	-4017.29	-774.88	-18.23	-5.181e+04	765.52	5251.89
7	115	240.00	-4426.27	-772.32	-16.49	-4.520e+04	167.68	5478.94
7	115	280.00	-4971.26	-790.68	-27.24	-4.393e+04	-1022.54	6593.07
7	115	320.00	-5613.78	-972.25	-97.91	-4.359e+04	-6857.73	6517.31
7	115	333.33	-5462.42	-1899.91	171.82	-3.968e+04	-4451.95	419.45
7	115	346.67	-3496.60	-493.69	131.15	-3.147e+04	-2572.43	-2383.24
7	117	-113.70	-8274.24	1122.23	-367.69	-2.125e+05	-7723.95	1.835e+04
7	117	-55.00	-6588.38	2422.91	-367.69	-2.523e+05	-2.643e+04	1.035e+04
7	117	0.0	-4623.77	-604.47	373.43	-1.696e+05	1932.75	820.59
7	117	40.00	-3940.42	-637.68	77.66	-1.254e+05	1656.53	6203.69
7	117	80.00	-3618.56	-663.00	20.99	-9.453e+04	2200.50	6433.44
7	117	120.00	-3546.66	-681.52	-6.17	-7.273e+04	1956.07	6170.84
7	117	160.00	-3651.59	-689.66	-17.14	-5.746e+04	1309.32	5862.25
7	117	200.00	-3876.57	-690.08	-18.30	-4.683e+04	626.82	5695.35
7	117	240.00	-4209.64	-686.29	-18.20	-4.061e+04	-62.67	5920.12
7	117	280.00	-4670.00	-701.56	-29.50	-3.944e+04	-1376.47	6905.64
7	117	320.00	-5211.90	-865.74	-89.33	-3.889e+04	-6714.31	6467.32
7	117	333.33	-5054.44	-1713.22	177.12	-3.563e+04	-4635.16	743.73
7	117	346.67	-3213.33	-435.21	133.37	-2.845e+04	-2717.20	-2178.19
7	122	-113.70	-5501.18	1123.44	-272.35	-1.524e+05	-4967.37	1.145e+04
7	122	-55.00	-4092.95	2074.84	-272.35	-1.922e+05	-1.799e+04	6052.57
7	122	0.0	-2616.57	-656.14	270.92	-1.310e+05	2470.40	-690.36
7	122	40.00	-2234.51	-689.54	53.86	-9.727e+04	2209.81	3099.50
7	122	80.00	-2159.87	-719.49	8.53	-7.411e+04	2313.06	3133.96
7	122	120.00	-2274.60	-742.20	-10.29	-5.743e+04	1886.52	2691.48
7	122	160.00	-2503.68	-755.25	-13.11	-4.461e+04	1417.20	2206.56
7	122	200.00	-2806.95	-761.60	-7.08	-3.438e+04	1213.75	1819.14
7	122	240.00	-3177.23	-764.06	2.25	-2.667e+04	1404.88	1636.58
7	122	280.00	-3620.95	-783.15	3.34	-2.162e+04	1643.27	2241.85
7	122	320.00	-4126.69	-917.77	-64.88	-1.659e+04	-2152.12	3558.61
7	122	333.33	-3971.41	-1466.96	13.14	-1.335e+04	19.16	64.13
7	122	346.67	-2334.73	-361.59	23.07	-2.076e+04	136.61	-1062.70
7	125	-113.70	-7455.75	1535.51	-389.69	-2.054e+05	-6677.85	1.515e+04
7	125	-55.00	-5610.22	2814.40	-389.69	-2.622e+05	-2.513e+04	7522.30
7	125	0.0	-3690.94	-863.72	358.16	-1.793e+05	2413.16	-1921.98
7	125	40.00	-3202.99	-880.22	67.69	-1.331e+05	1954.26	3495.67
7	125	80.00	-3084.34	-890.60	10.92	-1.010e+05	2167.40	4011.29
7	125	120.00	-3209.05	-891.67	-14.48	-7.830e+04	1633.96	4109.56
7	125	160.00	-3492.12	-880.58	-22.83	-6.219e+04	820.22	4285.25
7	125	200.00	-3880.09	-861.12	-22.50	-5.089e+04	45.84	4746.54
7	125	240.00	-4365.59	-836.92	-21.46	-4.438e+04	-673.44	5713.20
7	125	280.00	-4967.84	-832.72	-30.76	-4.331e+04	-1889.66	7570.43



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
7	125	320.00	-5644.13	-987.52	-92.70	-4.319e+04	-7329.60	7970.28
7	125	333.33	-5480.07	-1904.58	188.09	-3.921e+04	-4394.23	1704.69
7	125	346.67	-3501.19	-496.28	140.40	-3.154e+04	-2465.97	-2034.27
7	135	-113.70	-6782.60	1113.23	-318.16	-1.798e+05	-6173.06	1.454e+04
7	135	-55.00	-5257.25	2218.28	-318.16	-2.193e+05	-2.188e+04	7969.08
7	135	0.0	-3562.53	-625.16	316.72	-1.484e+05	2161.33	-27.21
7	135	40.00	-3039.16	-658.92	64.54	-1.101e+05	1887.55	4533.40
7	135	80.00	-2847.05	-687.07	14.22	-8.348e+04	2195.84	4711.22
7	135	120.00	-2871.76	-708.21	-8.48	-6.453e+04	1852.86	4413.63
7	135	160.00	-3039.90	-719.46	-15.34	-5.067e+04	1290.97	4081.82
7	135	200.00	-3304.01	-723.57	-13.10	-4.035e+04	838.82	3881.46
7	135	240.00	-3654.82	-723.63	-8.61	-3.342e+04	574.49	3986.84
7	135	280.00	-4104.59	-741.09	-13.49	-3.027e+04	38.20	4852.69
7	135	320.00	-4623.42	-888.82	-75.66	-2.736e+04	-4402.88	5305.20
7	135	333.33	-4467.46	-1576.06	94.24	-2.416e+04	-2250.66	701.60
7	135	346.67	-2744.80	-393.38	77.57	-2.429e+04	-1272.51	-1558.65
7	136	-113.70	-6831.14	1044.64	-314.44	-1.792e+05	-6243.44	1.476e+04
7	136	-55.00	-5349.33	2138.43	-314.44	-2.160e+05	-2.190e+04	8147.53
7	136	0.0	-3665.47	-595.06	314.89	-1.454e+05	2015.03	177.68
7	136	40.00	-3121.00	-627.34	64.40	-1.075e+05	1744.92	4724.65
7	136	80.00	-2901.26	-653.56	15.03	-8.107e+04	2088.02	4910.17
7	136	120.00	-2895.01	-673.14	-7.49	-6.225e+04	1786.31	4636.36
7	136	160.00	-3032.16	-683.26	-14.82	-4.857e+04	1240.09	4326.62
7	136	200.00	-3265.12	-686.52	-13.31	-3.847e+04	771.52	4139.32
7	136	240.00	-3583.29	-685.93	-9.67	-3.174e+04	453.72	4249.40
7	136	280.00	-3997.75	-702.01	-15.00	-2.870e+04	-161.33	5066.55
7	136	320.00	-4474.98	-843.03	-72.50	-2.579e+04	-4422.42	5335.37
7	136	333.33	-4316.38	-1502.23	99.33	-2.286e+04	-2409.10	848.52
7	136	346.67	-2642.16	-370.11	80.44	-2.316e+04	-1383.44	-1492.81
7	137	-113.70	-6370.47	1072.08	-300.52	-1.699e+05	-5782.91	1.358e+04
7	137	-55.00	-4915.22	2115.22	-300.52	-2.077e+05	-2.055e+04	7401.15
7	137	0.0	-3304.43	-615.51	299.39	-1.405e+05	2161.83	-137.51
7	137	40.00	-2816.36	-648.35	60.69	-1.040e+05	1893.18	4158.13
7	137	80.00	-2647.04	-676.02	12.73	-7.876e+04	2152.28	4305.32
7	137	120.00	-2682.90	-696.85	-8.53	-6.070e+04	1805.30	3988.83
7	137	160.00	-2852.24	-708.15	-14.37	-4.734e+04	1281.36	3637.15
7	137	200.00	-3110.16	-712.64	-11.41	-3.722e+04	896.03	3403.74
7	137	240.00	-3447.32	-713.26	-5.96	-3.018e+04	740.01	3440.57
7	137	280.00	-3873.25	-730.46	-9.16	-2.648e+04	402.38	4210.05
7	137	320.00	-4361.33	-869.45	-69.94	-2.287e+04	-3690.80	4827.76
7	137	333.33	-4204.14	-1492.38	71.32	-1.983e+04	-1612.12	653.43
7	137	346.67	-2543.19	-367.65	61.82	-2.238e+04	-888.68	-1349.83
7	140	-113.70	-6588.83	1059.54	-307.66	-1.743e+05	-5987.38	1.412e+04
7	140	-55.00	-5121.53	2125.78	-307.66	-2.117e+05	-2.119e+04	7737.23
7	140	0.0	-3476.74	-605.37	306.56	-1.429e+05	2084.98	-3.16
7	140	40.00	-2961.95	-638.08	62.41	-1.057e+05	1814.47	4419.35
7	140	80.00	-2768.74	-665.18	13.80	-7.993e+04	2113.07	4594.44
7	140	120.00	-2784.68	-685.54	-8.07	-6.152e+04	1786.54	4309.05
7	140	160.00	-2938.86	-696.40	-14.66	-4.801e+04	1249.87	3989.89
7	140	200.00	-3185.16	-700.42	-12.45	-3.790e+04	820.92	3793.61
7	140	240.00	-3513.70	-700.58	-7.93	-3.101e+04	581.61	3883.29
7	140	280.00	-3934.75	-717.32	-12.16	-2.764e+04	105.42	4692.56
7	140	320.00	-4418.10	-857.34	-71.12	-2.436e+04	-4059.36	5142.49
7	140	333.33	-4260.35	-1498.13	85.29	-2.138e+04	-2002.93	803.27
7	140	346.67	-2593.19	-369.09	71.11	-2.277e+04	-1133.49	-1412.45
7	141	-113.70	-6588.83	1059.54	-307.66	-1.743e+05	-5987.38	1.412e+04
7	141	-55.00	-5121.53	2125.78	-307.66	-2.117e+05	-2.119e+04	7737.23
7	141	0.0	-3476.74	-605.37	306.56	-1.429e+05	2084.98	-3.16
7	141	40.00	-2961.95	-638.08	62.41	-1.057e+05	1814.47	4419.35
7	141	80.00	-2768.74	-665.18	13.80	-7.993e+04	2113.07	4594.44
7	141	120.00	-2784.68	-685.54	-8.07	-6.152e+04	1786.54	4309.05
7	141	160.00	-2938.86	-696.40	-14.66	-4.801e+04	1249.87	3989.89
7	141	200.00	-3185.16	-700.42	-12.45	-3.790e+04	820.92	3793.61
7	141	240.00	-3513.70	-700.58	-7.93	-3.101e+04	581.61	3883.29
7	141	280.00	-3934.75	-717.32	-12.16	-2.764e+04	105.42	4692.56
7	141	320.00	-4418.10	-857.34	-71.12	-2.436e+04	-4059.36	5142.49
7	141	333.33	-4260.35	-1498.13	85.29	-2.138e+04	-2002.93	803.27
7	141	346.67	-2593.19	-369.09	71.11	-2.277e+04	-1133.49	-1412.45
M_S			N memb.	V memb.	V orto	M memb.	M orto	T



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
			-1.122e+04	-2584.96	-533.18	-3.577e+05	-3.657e+04	-1.053e+04
			1308.10	4293.91	920.63	-7466.32	1.029e+04	2.971e+04

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	12	-113.70	-1.698e+04	-637.14	-78.97	-3.379e+05	-4.955e+04	7.743e+04
8	12	-55.00	-1.698e+04	-637.14	-78.97	-3.062e+05	-3.400e+04	-5036.07
8	12	0.0	-1.846e+04	67.76	150.37	-3.072e+05	-2.184e+04	4647.99
8	12	40.00	-1.815e+04	67.76	161.96	-3.098e+05	-1.445e+04	4336.15
8	12	80.00	-1.789e+04	67.76	136.20	-3.125e+05	-8285.78	4089.66
8	12	120.00	-1.763e+04	67.76	108.17	-3.152e+05	-3354.01	4070.14
8	12	160.00	-1.737e+04	67.76	81.06	-3.179e+05	348.97	4069.24
8	12	200.00	-1.711e+04	67.76	54.10	-3.206e+05	2823.14	4069.17
8	12	240.00	-1.685e+04	67.76	27.00	-3.233e+05	4068.51	4068.53
8	12	280.00	-1.659e+04	67.76	-0.80	-3.260e+05	4085.08	4064.49
8	12	320.00	-1.633e+04	67.76	-32.64	-3.287e+05	2872.85	4060.18
8	12	333.33	-1.525e+04	-3956.89	-89.98	-2.972e+05	2104.08	4062.51
8	12	346.67	-1.201e+04	-1209.89	-40.02	-1.031e+05	670.90	1152.66
8	28	-113.70	-1.897e+04	-714.27	-209.10	-3.767e+05	-3.541e+04	5.526e+04
8	28	-55.00	-1.897e+04	-714.27	-209.10	-3.412e+05	-3.072e+04	-1200.53
8	28	0.0	-2.068e+04	119.28	36.27	-3.447e+05	-2.633e+04	4602.06
8	28	40.00	-2.038e+04	119.28	70.12	-3.493e+05	-2.314e+04	4254.41
8	28	80.00	-2.012e+04	119.28	70.88	-3.541e+05	-1.994e+04	4061.83
8	28	120.00	-1.986e+04	119.28	70.06	-3.588e+05	-1.675e+04	4047.17
8	28	160.00	-1.960e+04	119.28	69.91	-3.636e+05	-1.356e+04	4046.48
8	28	200.00	-1.934e+04	119.28	69.86	-3.684e+05	-1.036e+04	4045.97
8	28	240.00	-1.908e+04	119.28	69.71	-3.732e+05	-7168.41	4041.57
8	28	280.00	-1.882e+04	119.28	68.97	-3.779e+05	-3974.44	4005.87
8	28	320.00	-1.856e+04	119.28	64.82	-3.827e+05	-780.46	3740.23
8	28	333.33	-1.734e+04	-4517.37	23.53	-3.458e+05	303.81	3155.66
8	28	346.67	-1.376e+04	-1413.03	9.88	-1.190e+05	222.58	727.75
8	45	-113.70	-1.116e+04	-714.43	-28.71	-2.175e+05	-1.941e+04	3.463e+04
8	45	-55.00	-1.116e+04	-714.43	-28.71	-1.794e+05	-1.667e+04	2620.75
8	45	0.0	-1.219e+04	60.35	28.48	-1.809e+05	-1.412e+04	6269.41
8	45	40.00	-1.195e+04	60.35	41.13	-1.832e+05	-1.226e+04	6129.43
8	45	80.00	-1.175e+04	60.35	41.35	-1.856e+05	-1.040e+04	6033.57
8	45	120.00	-1.155e+04	60.35	40.83	-1.881e+05	-8534.80	6026.01
8	45	160.00	-1.135e+04	60.35	40.72	-1.905e+05	-6674.21	6025.59
8	45	200.00	-1.115e+04	60.35	40.64	-1.929e+05	-4813.61	6024.93
8	45	240.00	-1.095e+04	60.35	40.32	-1.953e+05	-2953.02	6019.42
8	45	280.00	-1.075e+04	60.35	38.85	-1.977e+05	-1092.42	5975.71
8	45	320.00	-1.055e+04	60.35	30.75	-2.001e+05	768.17	5670.93
8	45	333.33	-9842.38	-2494.93	-27.98	-1.813e+05	1411.51	5127.09
8	45	346.67	-7609.58	-732.63	-11.32	-6.449e+04	519.31	1115.87
8	47	-113.70	-1.202e+04	369.63	15.97	-2.656e+05	-5.184e+04	8.315e+04
8	47	-55.00	-1.202e+04	369.63	15.97	-2.354e+05	-4.661e+04	5836.79
8	47	0.0	-1.267e+04	-212.39	183.66	-2.506e+05	-3.977e+04	5748.83
8	47	40.00	-1.246e+04	-211.25	174.83	-2.486e+05	-3.290e+04	5261.04
8	47	80.00	-1.227e+04	-206.41	164.83	-2.440e+05	-2.733e+04	5555.34
8	47	120.00	-1.210e+04	-201.19	160.41	-2.395e+05	-2.229e+04	5391.23
8	47	160.00	-1.193e+04	-195.31	154.69	-2.354e+05	-1.766e+04	5403.48
8	47	200.00	-1.177e+04	-188.74	88.08	-2.316e+05	-1.349e+04	5393.50
8	47	240.00	-1.162e+04	-181.45	81.67	-2.283e+05	-212.90	5384.64
8	47	280.00	-1.149e+04	-173.82	73.23	-2.256e+05	104.66	5339.00
8	47	320.00	-1.142e+04	-178.15	61.39	-2.230e+05	795.73	5208.06
8	47	333.33	-1.004e+04	-2819.46	11.28	-1.893e+05	1048.52	4331.70
8	47	346.67	-7815.95	-850.40	-20.96	-6.690e+04	528.31	1363.16
8	63	-113.70	-1.243e+04	783.78	-69.72	-2.835e+05	-4.115e+04	6.272e+04
8	63	-55.00	-1.243e+04	783.78	-69.72	-2.634e+05	-3.853e+04	-1.021e+04
8	63	0.0	-1.294e+04	-346.67	72.98	-2.800e+05	-3.227e+04	-6818.42
8	63	40.00	-1.274e+04	-333.10	87.73	-2.754e+05	-2.750e+04	-7407.15
8	63	80.00	-1.258e+04	-321.44	85.06	-2.675e+05	-2.345e+04	-7199.70
8	63	120.00	-1.243e+04	-308.92	82.60	-2.599e+05	-1.977e+04	-7303.16
8	63	160.00	-1.229e+04	-294.91	80.47	-2.530e+05	-1.635e+04	-7280.73



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
8	63	200.00	-1.215e+04	-279.38	60.15	-2.466e+05	-1.321e+04	-7273.03
8	63	240.00	-1.203e+04	-262.14	57.92	-2.409e+05	-7449.36	-7274.78
8	63	280.00	-1.191e+04	-243.81	54.92	-2.361e+05	-5645.17	-7220.40
8	63	320.00	-1.194e+04	-250.60	49.78	-2.295e+05	-3719.28	-7552.10
8	63	333.33	-1.097e+04	-2903.69	56.75	-2.038e+05	-2639.57	-5677.38
8	63	346.67	-8639.63	-877.07	115.66	-6.691e+04	-1308.80	-2691.81
8	64	-113.70	-1.070e+04	-1516.98	-39.62	-1.852e+05	-1.779e+04	3.412e+04
8	64	-55.00	-1.070e+04	-1516.98	-39.62	-1.471e+05	-1.302e+04	1.728e+04
8	64	0.0	-1.205e+04	324.43	73.46	-1.370e+05	-1.181e+04	1.888e+04
8	64	40.00	-1.178e+04	308.92	77.27	-1.431e+05	-9958.82	1.898e+04
8	64	80.00	-1.154e+04	298.15	74.42	-1.515e+05	-8089.68	1.875e+04
8	64	120.00	-1.130e+04	286.60	73.66	-1.596e+05	-6125.08	1.875e+04
8	64	160.00	-1.105e+04	273.69	72.27	-1.672e+05	-4124.97	1.873e+04
8	64	200.00	-1.080e+04	259.42	52.60	-1.743e+05	-2089.23	1.872e+04
8	64	240.00	-1.055e+04	243.58	50.73	-1.808e+05	2810.21	1.871e+04
8	64	280.00	-1.029e+04	226.66	47.26	-1.868e+05	3904.29	1.856e+04
8	64	320.00	-9901.52	231.94	37.40	-1.950e+05	5098.88	1.850e+04
8	64	333.33	-9030.78	-2366.68	-67.54	-1.725e+05	5017.52	1.498e+04
8	64	346.67	-6889.26	-708.04	-154.71	-6.700e+04	2393.82	5266.07
8	79	-113.70	-1.187e+04	117.70	-11.96	-2.549e+05	-4.342e+04	6.997e+04
8	79	-55.00	-1.187e+04	117.70	-11.96	-2.255e+05	-3.883e+04	4428.61
8	79	0.0	-1.262e+04	-144.30	139.96	-2.364e+05	-3.310e+04	5406.65
8	79	40.00	-1.240e+04	-143.46	138.72	-2.353e+05	-2.756e+04	5001.75
8	79	80.00	-1.221e+04	-139.98	131.57	-2.323e+05	-2.297e+04	5181.31
8	79	120.00	-1.203e+04	-136.24	128.12	-2.295e+05	-1.877e+04	5060.91
8	79	160.00	-1.185e+04	-132.00	123.84	-2.268e+05	-1.487e+04	5069.59
8	79	200.00	-1.168e+04	-127.27	75.40	-2.245e+05	-1.132e+04	5062.32
8	79	240.00	-1.151e+04	-122.00	70.71	-2.224e+05	-1241.00	5054.86
8	79	280.00	-1.136e+04	-116.50	64.34	-2.209e+05	-433.44	5012.96
8	79	320.00	-1.126e+04	-119.55	54.31	-2.193e+05	626.84	4853.74
8	79	333.33	-1.006e+04	-2755.66	6.57	-1.894e+05	978.10	4096.48
8	79	346.67	-7826.48	-830.39	-15.77	-6.692e+04	474.58	1196.43
8	95	-113.70	-1.216e+04	417.85	-74.38	-2.678e+05	-3.564e+04	5.516e+04
8	95	-55.00	-1.216e+04	417.85	-74.38	-2.458e+05	-3.292e+04	-7182.44
8	95	0.0	-1.281e+04	-241.45	59.90	-2.577e+05	-2.764e+04	-3691.53
8	95	40.00	-1.260e+04	-231.66	75.52	-2.547e+05	-2.364e+04	-4168.69
8	95	80.00	-1.243e+04	-223.30	73.65	-2.493e+05	-2.016e+04	-4051.67
8	95	120.00	-1.227e+04	-214.31	71.66	-2.442e+05	-1.695e+04	-4128.08
8	95	160.00	-1.211e+04	-204.22	70.02	-2.395e+05	-1.393e+04	-4111.90
8	95	200.00	-1.195e+04	-193.03	55.21	-2.353e+05	-1.113e+04	-4106.25
8	95	240.00	-1.181e+04	-180.59	53.51	-2.316e+05	-6439.13	-4108.46
8	95	280.00	-1.167e+04	-167.35	51.05	-2.284e+05	-4584.79	-4077.65
8	95	320.00	-1.163e+04	-172.13	45.88	-2.240e+05	-2648.30	-4379.34
8	95	333.33	-1.073e+04	-2816.56	39.30	-1.999e+05	-1694.53	-3146.60
8	95	346.67	-8419.80	-849.66	83.07	-6.692e+04	-854.46	-1730.43
8	96	-113.70	-1.092e+04	-1245.03	-51.93	-1.969e+05	-1.889e+04	3.459e+04
8	96	-55.00	-1.092e+04	-1245.03	-51.93	-1.616e+05	-1.464e+04	1.275e+04
8	96	0.0	-1.217e+04	243.31	60.44	-1.544e+05	-1.299e+04	1.495e+04
8	96	40.00	-1.191e+04	232.14	68.18	-1.591e+05	-1.109e+04	1.497e+04
8	96	80.00	-1.168e+04	224.42	66.27	-1.655e+05	-9173.87	1.477e+04
8	96	120.00	-1.145e+04	216.12	65.57	-1.717e+05	-7193.37	1.477e+04
8	96	160.00	-1.122e+04	206.83	64.54	-1.776e+05	-5189.03	1.476e+04
8	96	200.00	-1.098e+04	196.55	50.26	-1.831e+05	-3161.49	1.474e+04
8	96	240.00	-1.074e+04	185.12	48.89	-1.882e+05	922.57	1.473e+04
8	96	280.00	-1.050e+04	172.89	46.15	-1.929e+05	2284.39	1.462e+04
8	96	320.00	-1.016e+04	176.59	37.57	-1.991e+05	3714.44	1.451e+04
8	96	333.33	-9331.09	-2428.72	-50.07	-1.773e+05	3848.99	1.183e+04
8	96	346.67	-7159.41	-727.46	-112.52	-6.699e+04	1822.12	4028.71
8	117	-113.70	-1.274e+04	-511.21	-58.81	-2.531e+05	-3.506e+04	5.507e+04
8	117	-55.00	-1.274e+04	-511.21	-58.81	-2.274e+05	-2.442e+04	-3204.52
8	117	0.0	-1.385e+04	47.90	102.90	-2.279e+05	-1.604e+04	3615.29
8	117	40.00	-1.362e+04	47.90	112.17	-2.298e+05	-1.093e+04	3390.91
8	117	80.00	-1.342e+04	47.90	95.03	-2.317e+05	-6629.17	3216.22
8	117	120.00	-1.322e+04	47.90	76.29	-2.336e+05	-3151.08	3202.40
8	117	160.00	-1.302e+04	47.90	58.20	-2.355e+05	-492.19	3201.76
8	117	200.00	-1.282e+04	47.90	40.22	-2.374e+05	1347.50	3201.66
8	117	240.00	-1.262e+04	47.90	22.14	-2.394e+05	2368.00	3200.77
8	117	280.00	-1.242e+04	47.90	3.49	-2.413e+05	2569.29	3194.49
8	117	320.00	-1.222e+04	47.90	-18.35	-2.432e+05	1951.38	3166.19
8	117	333.33	-1.140e+04	-2949.40	-61.40	-2.199e+05	1504.06	3119.37



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
8	117	346.67	-8945.80	-896.69	-27.27	-7.667e+04	487.57	861.53
8	125	-113.70	-1.407e+04	-562.55	-145.58	-2.790e+05	-2.563e+04	4.029e+04
8	125	-55.00	-1.407e+04	-562.55	-145.58	-2.507e+05	-2.223e+04	-648.76
8	125	0.0	-1.534e+04	82.23	26.83	-2.529e+05	-1.904e+04	3582.82
8	125	40.00	-1.510e+04	82.23	50.94	-2.561e+05	-1.672e+04	3334.57
8	125	80.00	-1.490e+04	82.23	51.47	-2.594e+05	-1.440e+04	3195.82
8	125	120.00	-1.470e+04	82.23	50.87	-2.627e+05	-1.208e+04	3185.25
8	125	160.00	-1.450e+04	82.23	50.77	-2.660e+05	-9761.81	3184.74
8	125	200.00	-1.430e+04	82.23	50.72	-2.693e+05	-7442.50	3184.35
8	125	240.00	-1.410e+04	82.23	50.60	-2.726e+05	-5123.20	3180.97
8	125	280.00	-1.390e+04	82.23	50.00	-2.759e+05	-2803.90	3153.58
8	125	320.00	-1.370e+04	82.23	46.62	-2.791e+05	-484.60	2951.13
8	125	333.33	-1.280e+04	-3323.06	14.28	-2.523e+05	303.35	2513.15
8	125	346.67	-1.011e+04	-1032.13	6.01	-8.727e+04	188.49	577.80
8	132	-113.70	-1.138e+04	-639.95	-52.92	-2.232e+05	-2.094e+04	3.626e+04
8	132	-55.00	-1.138e+04	-639.95	-52.92	-1.895e+05	-1.803e+04	1990.48
8	132	0.0	-1.240e+04	52.60	28.53	-1.906e+05	-1.531e+04	5807.87
8	132	40.00	-1.216e+04	52.60	43.69	-1.926e+05	-1.333e+04	5643.91
8	132	80.00	-1.196e+04	52.60	43.98	-1.947e+05	-1.135e+04	5538.00
8	132	120.00	-1.176e+04	52.60	43.44	-1.968e+05	-9374.22	5529.72
8	132	160.00	-1.156e+04	52.60	43.32	-1.989e+05	-7394.69	5529.28
8	132	200.00	-1.136e+04	52.60	43.25	-2.010e+05	-5415.16	5528.66
8	132	240.00	-1.116e+04	52.60	42.97	-2.031e+05	-3435.62	5523.49
8	132	280.00	-1.096e+04	52.60	41.64	-2.052e+05	-1456.09	5482.37
8	132	320.00	-1.076e+04	52.60	34.36	-2.073e+05	523.44	5193.26
8	132	333.33	-1.004e+04	-2560.60	-19.74	-1.877e+05	1205.32	4662.38
8	132	346.67	-7796.62	-761.53	-7.90	-6.632e+04	457.50	1015.15
8	135	-113.70	-1.197e+04	-564.27	-90.26	-2.367e+05	-2.222e+04	3.675e+04
8	135	-55.00	-1.197e+04	-564.27	-90.26	-2.076e+05	-1.920e+04	810.16
8	135	0.0	-1.303e+04	46.73	26.86	-2.082e+05	-1.637e+04	4674.80
8	135	40.00	-1.279e+04	46.73	45.29	-2.100e+05	-1.432e+04	4480.75
8	135	80.00	-1.259e+04	46.73	45.67	-2.119e+05	-1.226e+04	4364.52
8	135	120.00	-1.239e+04	46.73	45.13	-2.137e+05	-1.020e+04	4355.55
8	135	160.00	-1.219e+04	46.73	45.02	-2.156e+05	-8146.59	4355.09
8	135	200.00	-1.199e+04	46.73	44.96	-2.175e+05	-6089.81	4354.59
8	135	240.00	-1.179e+04	46.73	44.75	-2.193e+05	-4033.03	4350.34
8	135	280.00	-1.159e+04	46.73	43.77	-2.212e+05	-1976.24	4316.33
8	135	320.00	-1.139e+04	46.73	38.37	-2.231e+05	80.54	4073.03
8	135	333.33	-1.063e+04	-2729.78	-4.72	-2.017e+05	784.49	3598.43
8	135	346.67	-8292.69	-825.11	-1.75	-7.087e+04	328.02	793.83
8	136	-113.70	-1.149e+04	-515.81	-78.23	-2.277e+05	-2.382e+04	3.891e+04
8	136	-55.00	-1.149e+04	-515.81	-78.23	-2.013e+05	-1.941e+04	41.37
8	136	0.0	-1.247e+04	28.02	41.09	-2.010e+05	-1.559e+04	4339.14
8	136	40.00	-1.224e+04	28.02	56.76	-2.020e+05	-1.301e+04	4148.52
8	136	80.00	-1.204e+04	28.02	53.61	-2.031e+05	-1.059e+04	4025.85
8	136	120.00	-1.184e+04	28.02	49.45	-2.043e+05	-8336.20	4016.30
8	136	160.00	-1.164e+04	28.02	45.75	-2.054e+05	-6245.98	4015.83
8	136	200.00	-1.144e+04	28.02	42.11	-2.065e+05	-4319.60	4015.42
8	136	240.00	-1.124e+04	28.02	38.33	-2.076e+05	-2557.06	4011.96
8	136	280.00	-1.104e+04	28.02	33.83	-2.087e+05	-958.36	3984.45
8	136	320.00	-1.084e+04	28.02	25.25	-2.099e+05	476.50	3791.20
8	136	333.33	-1.010e+04	-2592.44	-16.71	-1.897e+05	920.63	3417.13
8	136	346.67	-7854.08	-778.65	-7.12	-6.696e+04	353.70	786.39
8	139	-113.70	-1.146e+04	-556.07	-79.29	-2.264e+05	-2.137e+04	3.572e+04
8	139	-55.00	-1.146e+04	-556.07	-79.29	-1.977e+05	-1.845e+04	1065.43
8	139	0.0	-1.246e+04	36.23	26.58	-1.978e+05	-1.572e+04	4822.66
8	139	40.00	-1.222e+04	36.23	43.79	-1.992e+05	-1.373e+04	4640.47
8	139	80.00	-1.202e+04	36.23	44.13	-2.006e+05	-1.174e+04	4529.55
8	139	120.00	-1.182e+04	36.23	43.61	-2.021e+05	-9755.39	4520.96
8	139	160.00	-1.162e+04	36.23	43.50	-2.035e+05	-7767.94	4520.52
8	139	200.00	-1.142e+04	36.23	43.44	-2.050e+05	-5780.48	4520.01
8	139	240.00	-1.122e+04	36.23	43.22	-2.064e+05	-3793.02	4515.64
8	139	280.00	-1.102e+04	36.23	42.18	-2.079e+05	-1805.56	4480.81
8	139	320.00	-1.082e+04	36.23	36.47	-2.093e+05	181.90	4232.76
8	139	333.33	-1.009e+04	-2584.39	-8.11	-1.893e+05	863.13	3756.24
8	139	346.67	-7843.16	-775.00	-3.13	-6.684e+04	349.76	824.43
8	140	-113.70	-1.148e+04	-535.05	-85.90	-2.272e+05	-2.147e+04	3.558e+04
8	140	-55.00	-1.148e+04	-535.05	-85.90	-1.997e+05	-1.855e+04	833.35
8	140	0.0	-1.248e+04	32.13	26.09	-1.996e+05	-1.582e+04	4575.28
8	140	40.00	-1.224e+04	32.13	43.81	-2.008e+05	-1.383e+04	4388.53



M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
8	140	80.00	-1.204e+04	32.13	44.17	-2.021e+05	-1.184e+04	4276.35
8	140	120.00	-1.184e+04	32.13	43.65	-2.034e+05	-9850.42	4267.69
8	140	160.00	-1.164e+04	32.13	43.54	-2.047e+05	-7861.09	4267.25
8	140	200.00	-1.144e+04	32.13	43.48	-2.060e+05	-5871.76	4266.76
8	140	240.00	-1.124e+04	32.13	43.28	-2.073e+05	-3882.43	4262.60
8	140	280.00	-1.104e+04	32.13	42.31	-2.085e+05	-1893.10	4229.35
8	140	320.00	-1.084e+04	32.13	37.00	-2.098e+05	96.23	3991.60
8	140	333.33	-1.010e+04	-2590.35	-5.19	-1.897e+05	777.25	3528.75
8	140	346.67	-7854.79	-778.38	-1.94	-6.697e+04	322.72	776.54
8	141	-113.70	-1.148e+04	-535.05	-85.90	-2.272e+05	-2.147e+04	3.558e+04
8	141	-55.00	-1.148e+04	-535.05	-85.90	-1.997e+05	-1.855e+04	833.35
8	141	0.0	-1.248e+04	32.13	26.09	-1.996e+05	-1.582e+04	4575.28
8	141	40.00	-1.224e+04	32.13	43.81	-2.008e+05	-1.383e+04	4388.53
8	141	80.00	-1.204e+04	32.13	44.17	-2.021e+05	-1.184e+04	4276.35
8	141	120.00	-1.184e+04	32.13	43.65	-2.034e+05	-9850.42	4267.69
8	141	160.00	-1.164e+04	32.13	43.54	-2.047e+05	-7861.09	4267.25
8	141	200.00	-1.144e+04	32.13	43.48	-2.060e+05	-5871.76	4266.76
8	141	240.00	-1.124e+04	32.13	43.28	-2.073e+05	-3882.43	4262.60
8	141	280.00	-1.104e+04	32.13	42.31	-2.085e+05	-1893.10	4229.35
8	141	320.00	-1.084e+04	32.13	37.00	-2.098e+05	96.23	3991.60
8	141	333.33	-1.010e+04	-2590.35	-5.19	-1.897e+05	777.25	3528.75
8	141	346.67	-7854.79	-778.38	-1.94	-6.697e+04	322.72	776.54
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.068e+04	-4517.37	-209.10	-3.827e+05	-5.184e+04	-1.021e+04
			-6889.26	783.78	183.66	-6.449e+04	5098.88	8.315e+04

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm2	daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	8	17	15.49	-41.67	-265.20	-57.13	-249.74	56.72	-122.50	-281.72	-125.62	-278.60	-22.07
		3	19.66	-42.75	-340.09	-77.63	-305.21	95.68	-197.15	-316.14	-202.63	-310.66	24.94
		15	19.45	-25.95	-341.03	-51.93	-315.05	86.67	-154.84	-264.70	-159.26	-260.28	21.60
		16	17.73	-50.49	-317.71	-70.41	-297.80	70.18	-116.02	-267.66	-119.08	-264.60	-21.34
1	55	17	12.84	-30.50	-173.37	-37.06	-166.81	29.91	-106.34	-369.23	-107.05	-368.52	13.64
		3	15.31	-32.94	-222.66	-51.23	-204.37	56.00	-126.25	-379.30	-136.16	-369.40	49.08
		15	15.51	-22.77	-223.62	-36.06	-210.33	49.93	-75.85	-356.86	-86.69	-346.01	54.13
		16	14.68	-38.65	-209.12	-48.23	-199.54	39.27	-88.81	-379.89	-90.00	-378.70	18.55
1	87	17	12.13	-29.69	-175.33	-37.38	-167.64	32.58	-96.27	-315.42	-96.29	-315.41	-1.88
		3	14.69	-31.75	-225.39	-51.64	-205.50	58.79	-121.47	-326.60	-127.23	-320.84	33.88
		15	14.82	-21.22	-226.10	-35.89	-211.43	52.82	-73.74	-301.09	-80.06	-294.76	37.39
		16	13.91	-37.12	-211.43	-47.98	-200.57	42.13	-80.23	-321.12	-80.25	-321.10	2.17
1	115	17	11.73	-31.01	-197.35	-42.59	-185.77	42.34	-90.16	-231.19	-94.72	-226.64	-24.93
		3	14.85	-31.87	-253.27	-57.85	-227.29	71.26	-148.56	-252.74	-150.97	-250.33	15.64
		15	14.68	-19.35	-253.78	-38.73	-234.40	64.56	-110.20	-210.93	-112.12	-209.02	13.76
		16	13.40	-37.55	-236.56	-52.45	-221.66	52.38	-82.48	-219.52	-86.51	-215.49	-23.15
1	135	17	10.55	-28.09	-184.22	-39.21	-173.11	40.15	-56.31	-201.39	-70.80	-186.89	-43.50
		3	13.39	-29.29	-237.02	-53.96	-212.35	67.19	-107.21	-204.90	-107.50	-204.60	-5.36
		15	13.36	-17.35	-237.15	-36.07	-218.44	61.35	-64.22	-170.24	-64.53	-169.93	-5.72
		16	12.22	-33.64	-221.68	-48.23	-207.09	50.31	-44.33	-193.21	-56.92	-180.62	-41.42
1	140	17	10.30	-27.46	-180.85	-38.41	-169.91	39.48	-54.53	-192.17	-68.46	-178.23	-41.52
		3	13.08	-28.71	-232.77	-52.94	-208.53	66.02	-103.82	-195.74	-104.12	-195.44	-5.28
		15	13.06	-16.98	-232.84	-35.41	-214.40	60.33	-62.90	-162.70	-63.23	-162.38	-5.71
		16	11.95	-32.88	-217.76	-47.28	-203.36	49.54	-43.15	-184.51	-55.35	-172.31	-39.69
1	141	17	10.30	-27.46	-180.85	-38.41	-169.91	39.48	-54.53	-192.17	-68.46	-178.23	-41.52
		3	13.08	-28.71	-232.77	-52.94	-208.53	66.02	-103.82	-195.74	-104.12	-195.44	-5.28
		15	13.06	-16.98	-232.84	-35.41	-214.40	60.33	-62.90	-162.70	-63.23	-162.38	-5.71
		16	11.95	-32.88	-217.76	-47.28	-203.36	49.54	-43.15	-184.51	-55.35	-172.31	-39.69
2	8	16	17.33	-59.60	-307.98	-75.32	-292.26	60.47	-108.93	-277.51	-111.95	-274.50	-22.34
		15	19.55	-28.77	-344.01	-56.15	-316.63	88.78	-150.73	-263.00	-156.32	-257.41	24.43
		18	19.20	2.55	-336.13	-9.42	-324.16	62.54	-146.02	-224.58	-153.96	-216.65	23.67
		19	19.32	-27.88	-341.10	-34.24	-334.74	44.18	-115.33	-243.13	-120.16	-238.30	24.38
2	55	16	15.11	-45.97	-202.95	-52.01	-196.91	30.20	-80.86	-431.75	-82.73	-429.88	25.55
		15	16.03	-26.34	-226.24	-39.11	-213.46	48.90	-73.66	-388.31	-82.90	-379.06	53.14
		18	16.36	0.74	-222.21	-3.69	-217.78	31.10	-66.89	-382.29	-80.47	-368.71	64.03
		19	16.93	-18.99	-227.48	-20.78	-225.68	19.27	-73.09	-437.71	-89.89	-420.91	76.43
2	87	16	14.16	-44.16	-204.79	-51.62	-197.33	33.81	-73.77	-360.97	-73.98	-360.77	7.64
		15	15.21	-24.40	-228.65	-38.94	-214.11	52.52	-71.47	-323.62	-77.03	-318.06	37.03
		18	15.44	0.82	-223.86	-4.68	-218.36	34.72	-63.83	-312.33	-72.20	-303.96	44.83

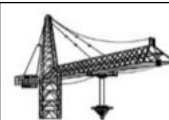


Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
2	115	19	15.83	-19.37	-228.76	-21.90	-226.23	22.89	-67.67	-354.41	-77.55	-344.54	52.30
		16	13.13	-44.27	-229.14	-56.06	-217.35	45.17	-77.27	-228.00	-81.01	-224.26	-23.44
		15	14.75	-21.47	-256.10	-41.89	-235.68	66.14	-107.15	-208.78	-109.76	-206.17	16.09
		18	14.48	1.74	-250.02	-7.21	-241.07	46.62	-102.04	-176.83	-105.65	-173.22	16.02
		19	14.58	-20.92	-253.83	-25.72	-249.03	33.10	-82.75	-193.42	-84.83	-191.34	15.04
		16	11.97	-39.85	-214.17	-51.62	-202.40	43.74	-41.87	-200.18	-52.64	-189.40	-39.87
	135	15	13.41	-19.44	-239.72	-39.15	-220.01	62.87	-62.85	-166.56	-63.01	-166.41	-4.00
		18	13.35	1.56	-233.12	-7.30	-224.26	44.73	-51.27	-141.52	-51.45	-141.34	-4.09
		19	13.28	-20.10	-237.13	-25.12	-232.12	32.62	-45.87	-153.58	-46.74	-152.70	-9.65
2	140	16	11.68	-38.96	-210.27	-50.60	-198.63	43.12	-40.80	-191.08	-51.24	-180.65	-38.20
		15	13.11	-19.05	-235.42	-38.46	-216.01	61.83	-61.63	-159.21	-61.80	-159.04	-4.09
		18	13.04	1.48	-228.81	-7.27	-220.06	44.04	-50.55	-135.41	-50.77	-135.19	-4.28
		19	12.98	-19.84	-232.84	-24.83	-227.85	32.22	-44.73	-146.59	-45.64	-145.69	-9.58
		16	11.68	-38.96	-210.27	-50.60	-198.63	43.12	-40.80	-191.08	-51.24	-180.65	-38.20
		15	13.11	-19.05	-235.42	-38.46	-216.01	61.83	-61.63	-159.21	-61.80	-159.04	-4.09
	141	18	13.04	1.48	-228.81	-7.27	-220.06	44.04	-50.55	-135.41	-50.77	-135.19	-4.28
		19	12.98	-19.84	-232.84	-24.83	-227.85	32.22	-44.73	-146.59	-45.64	-145.69	-9.58
		19	18.37	-19.26	-328.87	-24.37	-323.75	39.48	-38.29	-207.45	-49.75	-195.99	-42.51
	18	18	19.72	6.98	-344.61	-6.19	-331.43	66.77	-40.80	-195.71	-43.50	-193.01	-20.30
		20	20.99	60.43	-350.68	53.89	-344.14	51.45	-38.61	-160.19	-43.48	-155.32	-23.84
		21	20.82	57.09	-355.27	53.31	-351.48	39.31	-15.99	-159.14	-39.63	-135.49	-53.16
3	59	19	17.24	-12.21	-225.09	-13.65	-223.65	17.41	-73.69	-463.53	-99.89	-437.34	97.59
		18	17.42	3.77	-234.09	-1.69	-228.62	35.63	-69.20	-410.08	-86.45	-392.84	74.71
		20	18.09	39.92	-239.14	37.56	-236.78	25.54	-133.38	-424.50	-160.51	-397.37	84.63
		21	18.60	38.76	-243.24	37.60	-242.08	18.06	-119.25	-457.83	-162.61	-414.46	113.15
		19	15.93	-12.65	-224.46	-14.55	-222.56	19.99	-70.39	-370.95	-86.18	-355.16	67.06
		18	16.30	3.78	-234.02	-2.53	-227.71	38.22	-66.13	-332.84	-77.16	-321.80	53.11
	91	20	16.98	39.94	-238.72	37.09	-235.87	28.04	-115.85	-336.58	-133.42	-319.01	59.75
		21	17.32	38.48	-242.64	36.98	-241.14	20.44	-105.06	-354.16	-131.84	-327.38	77.16
		19	13.89	-14.45	-244.50	-18.25	-240.69	29.35	-31.98	-168.88	-38.92	-161.94	-30.03
3	120	18	14.88	4.98	-256.30	-4.78	-246.54	49.55	-31.20	-159.19	-32.52	-157.87	-12.92
		20	15.76	44.65	-260.67	39.80	-255.83	38.16	-32.59	-129.77	-35.03	-127.33	-15.21
		21	15.62	42.16	-264.15	39.35	-261.34	29.25	-17.00	-126.70	-32.06	-111.63	-37.76
3	135	19	12.83	-13.60	-227.35	-17.08	-223.88	27.04	-50.31	-148.86	-51.68	-147.49	-11.54
		18	13.69	4.24	-238.45	-4.71	-229.50	45.74	-53.53	-142.50	-53.58	-142.44	-2.18
		20	14.44	40.88	-242.33	36.45	-237.90	35.15	-64.07	-119.85	-64.32	-119.59	-3.75
		21	14.39	38.57	-245.76	35.97	-243.16	27.07	-48.88	-109.20	-53.20	-104.87	-15.56
		19	12.53	-13.48	-223.10	-16.94	-219.64	26.73	-48.94	-142.16	-50.35	-140.75	-11.39
3	140	18	13.38	4.08	-234.09	-4.75	-225.26	45.02	-52.72	-136.29	-52.79	-136.22	-2.46
		20	14.12	39.97	-237.77	35.60	-233.40	34.59	-62.59	-114.80	-62.91	-114.48	-4.06
		21	14.08	37.66	-241.20	35.08	-238.63	26.68	-47.37	-104.69	-51.81	-100.25	-15.33
3	141	19	12.53	-13.48	-223.10	-16.94	-219.64	26.73	-48.94	-142.16	-50.35	-140.75	-11.39
		18	13.38	4.08	-234.09	-4.75	-225.26	45.02	-52.72	-136.29	-52.79	-136.22	-2.46
		20	14.12	39.97	-237.77	35.60	-233.40	34.59	-62.59	-114.80	-62.91	-114.48	-4.06
		21	14.08	37.66	-241.20	35.08	-238.63	26.68	-47.37	-104.69	-51.81	-100.25	-15.33
4	18	21	20.42	57.15	-347.59	52.41	-342.86	43.50	-14.99	-162.87	-40.35	-137.51	-55.74
		20	21.22	63.79	-353.69	56.88	-346.78	53.26	-39.25	-160.29	-44.34	-155.21	-24.28
		22	22.36	89.89	-368.96	86.92	-365.99	36.81	-15.88	-122.77	-26.06	-112.58	-31.38
	59	23	20.18	55.20	-349.54	53.89	-348.24	22.93	19.29	-143.77	-24.17	-100.31	-72.10
		21	18.36	38.19	-237.90	36.57	-236.29	21.07	-117.84	-458.91	-163.73	-413.02	116.39
		20	18.79	41.91	-242.11	39.30	-239.51	27.09	-144.88	-461.51	-170.80	-435.59	86.81
		22	18.98	50.55	-252.73	49.68	-251.87	16.17	-208.13	-469.11	-239.37	-437.87	84.72
		23	17.63	27.89	-240.10	27.70	-239.90	7.15	-174.17	-458.82	-219.85	-413.14	104.48
4	91	21	17.06	38.08	-237.16	36.07	-235.15	23.42	-104.84	-354.96	-132.88	-326.91	78.92
		20	17.53	42.00	-241.48	38.89	-238.37	29.52	-124.40	-363.80	-141.25	-346.95	61.23
		22	17.81	52.97	-251.90	51.84	-250.77	18.52	-171.07	-361.77	-191.02	-341.82	58.37
	120	23	16.43	30.03	-239.17	29.70	-238.83	9.48	-146.43	-346.44	-172.35	-320.52	67.18
		21	15.31	42.23	-258.30	38.70	-254.77	32.35	-16.19	-129.65	-32.65	-113.19	-39.96
		20	15.93	47.12	-262.99	42.00	-257.87	39.51	-33.29	-129.84	-35.87	-127.25	-15.59
		22	16.70	66.41	-274.17	64.21	-271.97	27.29	-17.84	-98.72	-23.79	-92.77	-21.12
		23	15.08	40.63	-259.80	39.66	-258.82	17.07	9.85	-113.08	-20.75	-82.48	-53.16
4	135	21	14.09	38.65	-239.97	35.39	-236.72	29.93	-48.29	-111.19	-53.77	-105.70	-17.75
		20	14.61	43.14	-244.64	38.46	-239.96	36.42	-65.18	-119.90	-65.48	-119.59	-4.07
		22	15.23	60.58	-254.78	58.59	-252.79	24.98	-63.77	-96.77	-66.50	-94.04	-9.08
		23	13.81	36.49	-241.50	35.61	-240.62	15.63	-32.00	-98.87	-49.69	-81.19	-29.49
4	140	21	13.78	37.77	-235.45	34.55	-232.23	29.49	-46.77	-106.63	-52.36	-101.04	-17.41
		20	14.29	42.19	-240.08	37.57	-235.46	35.82	-63.63	-114.86	-64.01	-114.48	-4.37
		22	14.91	59.30	-249.91	57.33	-247.94	24.58	-61.86	-93.18	-64.87	-90.18	-9.22
		23	13.52	35.66	-236.98	34.77	-236.09	15.48	-30.89	-95.31	-48.42	-77.78	-28.67
		21	13.78	37.77	-235.45	34.55	-232.23	29.49	-46.77	-106.63	-52.36	-101.04	-17.41

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		20	14.29	42.19	-240.08	37.57	-235.46	35.82	-63.63	-114.86	-64.01	-114.48	-4.37
		22	14.91	59.30	-249.91	57.33	-247.94	24.58	-61.86	-93.18	-64.87	-90.18	-9.22
		23	13.52	35.66	-236.98	34.77	-236.09	15.48	-30.89	-95.31	-48.42	-77.78	-28.67
5	18	23	19.94	54.53	-344.11	53.53	-343.11	19.97	18.94	-144.40	-24.05	-101.40	-71.93
		22	22.47	90.23	-370.81	87.21	-367.79	37.21	-14.77	-122.45	-24.86	-112.35	-31.39
		24	22.42	61.92	-392.65	61.92	-392.65	1.81	22.43	-81.21	7.77	-66.54	-36.12
		25	20.09	16.41	-367.89	14.64	-366.12	-26.05	52.51	-119.71	-3.57	-63.63	-80.70
5	59	23	18.00	27.68	-236.75	27.65	-236.72	2.87	-187.64	-497.31	-228.14	-456.81	104.41
		22	19.62	50.31	-254.83	49.65	-254.18	14.14	-217.99	-507.89	-247.11	-478.78	87.13
		24	19.29	24.14	-270.71	23.82	-270.39	-9.68	-261.25	-510.97	-296.61	-475.61	87.06
		25	17.70	-4.27	-255.63	-7.47	-252.43	-28.17	-232.06	-503.76	-276.13	-459.69	100.16
5	91	23	16.65	29.75	-235.54	29.62	-235.41	5.86	-155.50	-375.47	-178.35	-352.62	67.11
		22	18.30	52.82	-253.80	51.86	-252.84	17.15	-177.85	-390.27	-196.46	-371.66	60.05
		24	17.98	28.43	-269.23	28.28	-269.07	-6.74	-206.96	-384.65	-229.37	-362.24	58.99
		25	16.39	-0.71	-253.66	-3.26	-251.12	-25.23	-186.90	-372.83	-210.88	-348.85	62.33
5	120	23	14.89	40.17	-255.61	39.42	-254.86	14.88	9.61	-113.68	-20.65	-83.42	-53.06
		22	16.78	66.64	-275.62	64.40	-273.39	27.58	-16.91	-98.49	-22.82	-92.57	-21.16
		24	16.69	45.51	-291.67	45.50	-291.67	1.30	10.86	-64.85	1.55	-55.54	-24.86
		25	14.97	11.71	-273.31	10.41	-272.00	-19.28	35.53	-93.66	-5.31	-52.83	-60.07
5	135	23	13.61	36.12	-237.30	35.45	-236.62	13.59	-32.12	-99.54	-49.54	-82.13	-29.51
		22	15.32	60.77	-256.29	58.75	-254.27	25.25	-62.97	-96.63	-65.75	-93.85	-9.27
		24	15.19	40.51	-270.99	40.50	-270.99	0.69	-47.08	-75.44	-55.60	-66.93	-13.00
		25	13.65	9.01	-253.92	7.74	-252.65	-18.25	-14.06	-88.01	-42.03	-60.05	-35.86
5	140	23	13.32	35.31	-232.76	34.63	-232.08	13.48	-31.01	-95.94	-48.28	-78.67	-28.69
		22	14.99	59.47	-251.44	57.47	-249.44	24.84	-61.10	-93.05	-64.15	-90.00	-9.40
		24	14.87	39.57	-265.74	39.57	-265.73	0.74	-45.48	-73.36	-54.42	-64.42	-13.01
		25	13.36	8.65	-249.02	7.42	-247.79	-17.74	-13.61	-85.15	-41.05	-57.71	-34.78
5	141	23	13.32	35.31	-232.76	34.63	-232.08	13.48	-31.01	-95.94	-48.28	-78.67	-28.69
		22	14.99	59.47	-251.44	57.47	-249.44	24.84	-61.10	-93.05	-64.15	-90.00	-9.40
		24	14.87	39.57	-265.74	39.57	-265.73	0.74	-45.48	-73.36	-54.42	-64.42	-13.01
		25	13.36	8.65	-249.02	7.42	-247.79	-17.74	-13.61	-85.15	-41.05	-57.71	-34.78
6	18	25	19.98	21.32	-362.55	19.08	-360.32	-29.19	52.13	-119.55	-3.61	-63.81	-80.39
		24	22.60	61.10	-396.61	61.10	-396.61	0.68	22.77	-80.97	8.31	-66.52	-35.92
		26	21.62	-29.60	-431.74	-32.69	-428.65	-35.10	62.67	-36.37	44.67	-18.36	-38.20
		27	20.33	-51.92	-406.64	-64.89	-393.66	-66.59	87.64	-87.82	20.31	-20.49	-85.32
6	57	25	18.27	32.72	-242.40	32.70	-242.37	-2.73	544.77	121.76	237.86	428.67	-188.76
		24	20.16	63.58	-268.38	62.73	-267.53	16.81	493.29	176.41	240.17	429.53	-127.04
		26	20.01	10.71	-288.70	10.52	-288.51	-7.60	556.13	239.65	318.89	476.88	-137.11
		27	18.50	-9.49	-267.50	-12.58	-264.41	-28.06	608.21	172.12	306.43	473.90	-201.33
6	91	25	16.81	3.25	-251.00	-0.10	-247.66	-28.97	-195.99	-410.34	-218.76	-387.58	66.04
		24	18.64	27.97	-273.25	27.69	-272.97	-9.19	-214.68	-418.21	-235.70	-397.19	61.94
		26	18.27	-39.85	-298.59	-44.23	-294.20	-33.39	-230.79	-415.14	-259.63	-386.29	66.97
		27	17.11	-51.69	-283.58	-65.19	-270.08	-54.30	-215.79	-410.28	-244.84	-381.22	69.33
6	120	25	14.88	15.37	-269.19	13.72	-267.53	-21.61	35.24	-93.54	-5.33	-52.96	-59.83
		24	16.83	44.88	-294.70	44.88	-294.69	0.46	11.18	-64.68	2.02	-55.51	-24.72
		26	16.06	-22.56	-320.60	-24.86	-318.31	-26.06	41.79	-28.64	29.87	-16.72	-26.42
		27	15.11	-39.10	-301.93	-48.70	-292.32	-49.32	62.65	-68.17	12.66	-18.18	-63.57
6	135	25	13.54	12.40	-249.80	10.80	-248.20	-20.40	-14.34	-87.96	-42.11	-60.19	-35.68
		24	15.32	39.96	-273.95	39.96	-273.95	-0.13	-46.76	-75.24	-55.14	-66.86	-12.98
		26	14.74	-23.55	-297.97	-25.83	-295.69	-24.91	-25.94	-55.17	-41.52	-39.59	-14.58
		27	13.84	-38.73	-280.27	-47.94	-271.06	-46.24	4.91	-72.46	-31.64	-35.90	-38.63
6	140	25	13.25	11.97	-244.89	10.43	-243.35	-19.85	-13.88	-85.10	-41.14	-57.85	-34.62
		24	15.01	39.03	-268.67	39.03	-268.67	-0.06	-45.18	-73.16	-53.99	-64.35	-12.99
		26	14.44	-23.31	-292.12	-25.54	-289.89	-24.37	-25.11	-54.36	-41.01	-38.46	-14.57
		27	13.55	-38.24	-274.72	-47.22	-265.74	-45.20	4.61	-70.42	-31.03	-34.78	-37.47
6	141	25	13.25	11.97	-244.89	10.43	-243.35	-19.85	-13.88	-85.10	-41.14	-57.85	-34.62
		24	15.01	39.03	-268.67	39.03	-268.67	-0.06	-45.18	-73.16	-53.99	-64.35	-12.99
		26	14.44	-23.31	-292.12	-25.54	-289.89	-24.37	-25.11	-54.36	-41.01	-38.46	-14.57
		27	13.55	-38.24	-274.72	-47.22	-265.74	-45.20	4.61	-70.42	-31.03	-34.78	-37.47
7	18	27	21.08	-10.55	-399.58	-31.54	-378.59	-87.89	87.21	-88.37	20.36	-21.53	-85.25
		26	21.98	-51.59	-450.07	-52.45	-449.21	-18.53	61.50	-36.52	43.83	-18.85	-37.67
		28	19.80	-192.57	-450.82	-203.81	-439.58	-52.69	108.10	12.83	86.11	34.81	-40.14
		29	20.18	-212.00	-457.65	-213.74	-455.91	-20.62	128.99	-49.57	46.17	33.25	-89.05
7	57	27	19.14	14.47	-259.91	8.21	-253.66	-40.95	672.87	191.55	320.19	544.23	-213.00
		26	21.63	-2.48	-302.26	-2.54	-302.20	4.37	619.81	257.44	330.80	546.45	-145.60
		28	20.75	-104.90	-297.48	-106.53	-295.85	-17.64	692.62	323.47	418.15	597.94	-161.21
		29	21.87	-114.04	-304.57	-114.11	-304.51	3.52	746.70	242.12	391.89	596.93	-230.52
7	88	27	17.75	-28.08	-278.54	-50.73	-255.89	-71.83	-242.65	-494.50	-279.10	-458.05	88.60
		26	19.47	-61.75	-306.87	-64.65	-303.97	-26.52	-262.29	-496.42	-295.88	-462.84	82.07
		28	19.04	-152.91	-315.03	-168.91	-299.03	-48.36	-272.62	-500.00	-321.83	-450.79	93.64



Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
7	120	29	19.18	-165.83	-311.90	-171.55	-306.18	-28.33	-254.77	-498.18	-306.31	-446.64	99.45
		27	15.66	-8.48	-296.53	-24.02	-280.99	-65.07	62.37	-68.57	12.74	-18.94	-63.52
		26	16.33	-38.87	-334.24	-39.51	-333.59	-13.82	40.93	-28.77	29.25	-17.09	-26.03
		28	14.71	-143.58	-334.72	-151.87	-326.42	-38.95	76.91	10.78	61.85	25.84	-27.73
7	135	29	14.97	-157.76	-339.59	-159.05	-338.30	-15.27	94.34	-38.04	31.99	24.31	-66.08
		27	14.22	-11.20	-275.13	-25.90	-260.43	-60.53	4.50	-72.82	-31.79	-36.53	-38.59
		26	15.04	-38.17	-310.37	-38.89	-309.65	-13.98	-26.54	-55.36	-42.06	-39.83	-14.37
		28	13.77	-137.41	-312.01	-145.39	-304.03	-36.45	-1.09	-34.14	-24.34	-10.89	-15.10
7	140	29	13.81	-148.78	-313.71	-150.25	-312.24	-15.46	28.34	-52.66	-17.96	-6.36	-40.08
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
7	141	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
8	18	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
8	57	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
8	89	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
8	120	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
8	135	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
8	141	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
9	8	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
9	55	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
9	87	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
9	115	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
9	135	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
9	140	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09
9	141	29	13.53	-146.04	-307.32	-147.47	-305.89	-15.13	27.13	-51.50	-17.74	-6.63	-38.92
		27	13.92	-11.34	-269.60	-25.70	-255.24	-59.17	4.20	-70.77	-31.18	-35.39	-37.43
		26	14.74	-37.59	-304.28	-38.30	-303.58	-13.71	-25.69	-54.55	-41.53	-38.70	-14.36
		28	13.51	-135.04	-305.89	-142.84	-298.09	-35.65	-1.42	-34.45	-24.64	-11.23	-15.09



Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		17	10.85	-28.16	-190.74	-37.93	-180.97	38.64	-61.67	-190.73	-72.50	-179.90	-35.78
		16	13.20	-23.29	-234.20	-40.09	-217.40	57.12	-39.69	-190.12	-45.23	-184.58	-28.34
		32	12.58	-44.08	-210.95	-47.48	-207.54	-23.59	-14.73	-220.25	-49.70	-185.28	-77.23
10	8	32	29.10	-33.71	-476.95	-59.35	-451.31	-103.48	9.56	-399.69	-14.97	-375.15	-97.16
		16	17.85	-37.84	-313.96	-93.16	-258.64	110.51	-110.59	-260.99	-114.00	-257.59	22.38
		19	15.06	-50.93	-269.91	-51.35	-269.50	-9.57	-121.51	-219.88	-122.59	-218.81	10.22
		34	33.97	-1.29	-566.70	-30.51	-537.48	125.17	-2.29	-393.29	-62.50	-333.09	141.12
10	47	32	25.32	-23.59	-330.23	-49.60	-304.22	-85.44	-69.31	-690.48	-70.60	-689.19	-28.24
		16	14.54	-45.81	-202.04	-73.68	-174.16	59.82	-61.03	-407.99	-68.14	-400.88	49.16
		19	13.92	-21.43	-183.32	-24.39	-180.36	-21.71	-46.53	-426.43	-78.51	-394.45	105.49
		34	29.84	3.46	-377.40	-10.11	-363.82	70.61	-30.60	-749.66	-94.15	-686.10	204.11
10	79	32	23.80	-22.67	-326.94	-45.88	-303.73	-80.77	-55.90	-577.91	-59.39	-574.42	-42.55
		16	13.74	-39.65	-206.23	-70.59	-175.29	64.78	-59.13	-336.49	-62.60	-333.02	30.84
		19	12.87	-25.93	-182.32	-27.74	-180.50	-16.75	-52.81	-343.75	-70.74	-325.82	69.97
		34	27.76	1.24	-380.88	-14.24	-365.40	75.33	-20.58	-595.10	-70.91	-544.78	162.42
10	115	32	22.19	-24.81	-354.22	-43.86	-335.17	-76.90	5.06	-335.56	-15.35	-315.15	-80.84
		16	13.40	-28.12	-233.88	-69.35	-192.64	82.37	-80.09	-207.90	-81.09	-206.89	11.31
		19	11.44	-38.14	-200.57	-38.44	-200.28	-6.90	-87.38	-178.76	-87.50	-178.63	3.35
		34	25.50	-1.20	-421.91	-23.08	-400.04	93.40	-0.49	-304.46	-43.20	-261.75	105.63
10	135	32	20.43	-20.40	-325.82	-37.57	-308.65	-70.35	-5.92	-311.87	-30.02	-287.77	-82.42
		16	11.98	-24.70	-220.97	-64.13	-181.53	78.64	-46.08	-165.59	-48.48	-163.19	-16.74
		19	10.51	-36.72	-184.74	-36.86	-184.61	-4.44	-47.44	-158.17	-52.14	-153.47	-22.32
		34	22.84	-3.80	-397.39	-24.95	-376.25	88.75	5.97	-202.56	-11.34	-185.25	57.53
10	140	32	19.90	-19.72	-319.34	-36.52	-302.54	-68.92	-5.70	-297.45	-28.99	-274.16	-79.07
		16	11.73	-24.10	-217.20	-62.90	-178.40	77.37	-44.94	-157.99	-47.30	-155.63	-16.16
		19	10.25	-36.22	-181.10	-36.34	-180.98	-4.15	-46.12	-151.22	-50.84	-146.50	-21.76
		34	22.35	-4.02	-390.50	-24.88	-369.65	87.32	5.69	-192.88	-10.83	-176.36	54.84
10	141	32	19.90	-19.72	-319.34	-36.52	-302.54	-68.92	-5.70	-297.45	-28.99	-274.16	-79.07
		16	11.73	-24.10	-217.20	-62.90	-178.40	77.37	-44.94	-157.99	-47.30	-155.63	-16.16
		19	10.25	-36.22	-181.10	-36.34	-180.98	-4.15	-46.12	-151.22	-50.84	-146.50	-21.76
		34	22.35	-4.02	-390.50	-24.88	-369.65	87.32	5.69	-192.88	-10.83	-176.36	54.84
11	28	34	21.32	-10.19	-375.73	-20.95	-364.97	61.79	-48.56	-213.30	-65.74	-196.13	50.34
		19	19.76	-21.95	-345.90	-22.79	-345.06	16.42	-67.28	-232.25	-68.24	-231.30	-12.54
		21	21.99	59.37	-376.28	56.84	-373.74	33.10	-84.99	-156.59	-86.37	-155.21	-9.84
		35	16.49	98.31	-259.36	74.70	-235.75	88.81	-66.88	-108.29	-74.11	-101.07	-15.72
11	59	34	19.90	4.36	-246.63	-0.66	-241.60	35.16	22.60	-534.30	-84.66	-427.03	219.62
		19	18.01	-5.28	-230.78	-5.31	-230.75	2.61	-36.09	-493.97	-78.92	-451.14	133.33
		21	19.00	36.37	-249.11	35.58	-248.31	15.07	-103.10	-484.62	-169.97	-417.75	145.06
		35	15.85	61.95	-167.69	48.94	-154.68	53.08	-57.34	-452.63	-162.07	-347.91	174.44
11	91	34	18.33	1.23	-248.70	-4.39	-243.08	37.04	7.02	-423.67	-72.66	-343.98	167.25
		19	16.67	-8.07	-231.76	-8.17	-231.65	4.78	-42.21	-394.87	-69.12	-367.96	93.63
		21	17.79	37.21	-250.58	36.20	-249.57	17.02	-93.62	-374.39	-138.08	-329.93	102.51
		35	14.49	63.06	-169.81	49.21	-155.96	55.08	-58.87	-341.00	-130.14	-269.74	122.59
11	125	34	16.07	-7.62	-279.22	-15.64	-271.20	45.98	-36.21	-173.65	-49.49	-160.37	40.61
		19	14.93	-16.42	-257.18	-17.03	-256.57	12.11	-49.47	-188.34	-50.12	-187.69	-9.43
		21	16.48	43.88	-279.64	42.00	-277.77	24.56	-63.19	-125.71	-64.01	-124.90	-7.09
		35	12.33	72.87	-192.77	55.29	-175.18	66.04	-50.82	-86.00	-55.23	-81.58	-11.65
11	135	34	14.70	-6.57	-259.05	-13.98	-251.63	42.63	-32.06	-145.38	-43.23	-134.21	33.78
		19	13.66	-15.27	-239.23	-15.76	-238.74	10.48	-44.12	-158.94	-44.80	-158.27	-8.78
...													
1649	141	1846	5.33	0.11	-103.63	0.11	-103.63	0.44	-1.01	-11.26	-1.83	-10.45	-2.77
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
					-1972.26	-1092.68	-1312.62	-980.97		-4149.00	-2585.27	-3274.45	-2089.74
			123.84	1189.08		1042.30	676.98	1114.23	3907.07		2777.78	2865.63	1914.19

VERIFICHE PER ELEMENTI IN ACCIAIO

Il programma consente la verifica dei seguenti tipi di elementi:

1. **aste** 2. **travi** 3. **pilastr**

L'esito delle verifiche è espresso con un codice come di seguito indicato

- Ok:** verifica con esito positivo
NV: verifica con esito negativo
Nr: verifica non richiesta.

Per comodità gli elementi vengono raggruppati in tabelle in relazione al tipo.

Ai fini delle verifiche (come da D.M. 17 Gennaio 2018 e circolare 21 Gennaio 2019 n.7) i tipi elementi differiscono per i seguenti aspetti:

Verifica	Aste	Travi	Pilastr
4.2.3.1 Classificazione	X	X	X
4.2.4.1.2.1 Trazione	X	X	X
4.2.4.1.2.2 Compressione	X	X	X
4.2.4.1.2.4 Taglio		X	X
4.2.4.1.2.5 Torsione		X	X
Flessione, taglio e forza assiale		X	X
4.2.4.1.3.1 Aste compresse	X	X	X
4.2.4.1.3.2 Instabilità flesso-torsionale		X	X
4.2.4.1.3.3 Membrature inflesse e compresse		X	X

Ai fini delle verifiche per strutture dissipative (come da D.M. 17 Gennaio 2018 e 2018 e circolare 21 Gennaio 2019 n.7) per strutture intelaiate e a controventi concentrici) si considerano le verifiche del capitolo 4 con azioni amplificate e le verifiche del capitolo 7:

Verifica	Travi	Pilastr
4.2.4.1.2.1 Trazione	X	X
4.2.4.1.2.2 Compressione	X	X
4.2.4.1.2.4 Taglio	X	X
4.2.4.1.2.5 Torsione	X	X
Flessione, taglio e forza assiale	X	X
4.2.4.1.3.1 Aste compresse	X	X
4.2.4.1.3.2 Instabilità flesso-torsionale	X	X
4.2.4.1.3.3 Membrature inflesse e compresse	X	X
7.5.3 Sfruttamento per momento	X	
7.5.4 Sfruttamento per sforzo normale	X	
7.5.5 Sfruttamento per taglio da capacità flessionale	X	
7.5.9 Sfruttamento per taglio amplificato		X

Viene inoltre riportata la verifica della "Gerarchia delle resistenze trave-colonna" per ogni colonna, considerando piede e testa in entrambe le direzioni globali X e Y.

L'insieme delle verifiche sopra riportate è condotto sugli elementi purché dotati di sezione idonea come da tabella seguente:

Azione	SEZIONI	PROFILI	PROFILI ACCOPPIATI
--------	---------	---------	--------------------

	GENERICHE	SEMPLICI	
4.2.3.1 Classificazione automatica	L, doppio T, C, rettangolare cava, circolare cava	Tutti	Da profilo semplice
4.2.3.1 Classificazione di default 2	Circolare		
4.2.3.1 Classificazione di default 3	restanti		
4.2.4.1.2.1 Trazione	si	si	si
4.2.4.1.2.2 Compressione	si	si	si
4.2.4.1.2.4 Taglio	si	si	si
4.2.4.1.2.5 Torsione	si	si	si
Flessione, taglio e forza assiale	si	si	si
4.2.4.1.3.1 Aste compresse	si	si	per elementi ravvicinati e a croce o coppie calastrellate
4.2.4.1.3.2 Travi inflesse	doppio T simmetrica	doppio T	no

Le verifiche sono riportate in tabelle con il significato sotto indicato; le verifiche sono espresse dal rapporto tra l'azione di progetto e la capacità ultima, pertanto la verifica ha esito positivo per rapporti non superiori all'unità.

Asta	Trave	Pilastro	numero dell'elemento			
Stato			codice di verifica per resistenza, stabilità, svergolamento			
Note			sezione e materiali adottati per l'elemento			
V N			(ASTE) verifica come da par. 4.2.4.1.2 per punto (4.2.6) e (4.2.10)			
V V/T			(TRAVI E PILASTRI) verifica di resistenza come da par. 4.2.4.1.2 per azioni taglio-torsione (4.2.16 e 4.2.28)			
V N/M			(TRAVI E PILASTRI) verifica di resistenza come da par. 4.2.4.1.2 per azioni composte (4.2.33) con riduzione per taglio (4.2.40) ove richiesto			
N	M3	M2	V2	V3	T	sollecitazioni di interesse per la verifica
V stab			(ASTE) verifica come da par. 4.2.4.1.3.1 per punto (4.2.41)			
V stab			(TRAVI E PILASTRI) verifica come da par. 4.2.4.1.3 per punti (C4.2.32) o (C4.2.36) (membrature inflesse e compresse senza/con presenza di instabilità flesso-torsionale)			
BetaxL		B22xL	B33xL	lunghezze libere di inflessione (se indicato riferiti al piano di normale 22 o 33 rispettivamente)		
Snellezza			snellezza massima			
Classe			classe del profilo			
Chi mn			coefficiente di riduzione (della capacità) per la modalità di instabilità pertinente			
Rif. cmb			combinazioni in cui si sono rispettivamente attinti i valori di verifica più elevati			
V flst			(TRAVI E PILASTRI) verifica di stabilità come da par. 4.2.4.1.3.2 per punto (4.2.48)			
B1-1 x L			Beta1-1 x L: interasse tra i ritegni torsionali			
Chi LT			coefficiente di riduzione (della capacità) per la modalità di instabilità flesso-torsionale			
Snell adim			Valore della snellezza adimensionale, utilizzato per il controllo previsto al par. 7.5.5			
v.Omeg			Valore del rapporto capacità/domanda per l' azione di interesse (momento per travi e azione assiale per aste) utilizzato per l' amplificazione delle azioni			
f.Om. N			Fattore di amplificazione delle azioni assiali per travi e colonne (prodotto di 1.1 x Omega x gamma rd materiale); utilizzato come specificato al par. 7.5.5			
f.Om. T			Fattore di amplificazione delle azioni (assiali, flettenti e taglianti) per colonne (prodotto di 1.1 x Omega x gamma rd materiale); utilizzato come specificato al par. 7.5.4			
V.7.5.4 M Ed			Verifica come prevista al punto 7.5.4 e valore dell' azione flettente			
V.7.5.5 N Ed			Verifica come prevista al punto 7.5.5 e valore dell' azione assiale			

V.7.5.6 V Ed,G V Ed,M	Verifica come prevista al punto 7.5.6 e valore dei tagli dovuti ai carichi e alla capacità
V.7.5.10 V Ed	Verifica come prevista al punto 7.5.10 e valore dell' azione di taglio
sovr. Xi (Xf, Yi, Yf)	Valore della sovraresistenza come prevista al par. 7.5.4.2 (i valori non sono normalizzati pertanto saranno maggiori uguali a gamma rd in base alla classe di duttilità)

Nel caso in cui λ_{S} sia minore di 0.2, oppure nel caso in cui la sollecitazione di calcolo N_{Ed} sia inferiore a $0.04 N_{cr}$, gli effetti legati ai fenomeni di instabilità sono trascurati, come da paragrafo 4.2.4.1.3.1

Asta	Stato	Note	V N	N	V stab	N	Cl.	Beta x L	Snell.	LambDaS	Chi mn	v.Omeg	Rif. cmb
				daN		daN		cm					
29	ok	s=7,m=12	0.27	2251.2			1	411.0	822.0	9.47	0.01	0.0	53,0
30	ok	s=7,m=12	0.19	1566.5			1	411.0	822.0	9.47	0.01	0.0	52,0
31	ok	s=7,m=12	0.15	1227.3			1	411.0	822.0	9.47	0.01	0.0	53,0
32	ok	s=7,m=12	0.19	1541.5			1	403.5	807.0	9.30	0.01	0.0	52,0
33	ok	s=7,m=12	0.15	1209.5			1	403.5	807.0	9.30	0.01	0.0	50,0
34	ok	s=7,m=12	0.16	1316.5			1	403.5	807.0	9.30	0.01	0.0	51,0
35	ok	s=7,m=12	0.18	1455.4			1	411.0	822.0	9.47	0.01	0.0	54,0
36	ok	s=7,m=12	0.30	2487.5			1	411.0	822.0	9.47	0.01	0.0	51,0
37	ok	s=7,m=12	0.13	1069.6			1	411.0	822.0	9.47	0.01	0.0	58,0
38	ok	s=7,m=12	0.31	2586.8			1	411.0	822.0	9.47	0.01	0.0	54,0
39	ok	s=7,m=12	0.16	1340.8			1	411.0	822.0	9.47	0.01	0.0	51,0
40	ok	s=7,m=12	0.17	1403.1			1	403.5	807.0	9.30	0.01	0.0	54,0
41	ok	s=7,m=12	0.16	1317.4			1	403.5	807.0	9.30	0.01	0.0	47,0
42	ok	s=7,m=12	0.15	1198.8			1	403.5	807.0	9.30	0.01	0.0	53,0
43	ok	s=7,m=12	0.15	1271.5			1	411.0	822.0	9.47	0.01	0.0	60,0
44	ok	s=7,m=12	0.34	2789.4			1	411.0	822.0	9.47	0.01	0.0	52,0
Asta			V N	N	V stab	N		Beta x L	Snell.	LambDaS	Chi mn	v.Omeg	
				1069.58						9.30	0.01	0.0	
			0.34	2789.43				411.00	821.99	9.47		0.0	

Pilas.	Stato	Note	V V/T	V N/M	V stab	Cl.	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT	Rif. cmb
288	ok	s=11,m=12	3.35e-03	0.05	0.34	1	2.2	1.3	192.9	0.16	0.04	0.3	1.00	63,28,8,63
289	ok	s=11,m=12	3.08e-03	0.12	0.78	1	2.2	1.3	192.9	0.16	0.03	0.3	1.00	66,38,38,66
290	ok	s=11,m=12	3.63e-03	0.09	0.56	1	2.2	1.3	192.9	0.16	0.04	0.3	1.00	28,38,18,28
291	ok	s=11,m=12	2.42e-03	0.10	0.60	1	2.2	1.3	192.9	0.16	0.03	0.3	1.00	66,28,8,66
292	ok	s=11,m=12	5.19e-03	0.12	0.76	1	2.2	1.3	192.9	0.16	0.06	0.3	1.00	28,38,8,28
293	ok	s=11,m=12	2.58e-03	0.10	0.62	1	2.2	1.3	192.9	0.16	0.03	0.3	1.00	66,8,8,66
294	ok	s=11,m=12	8.57e-03	0.15	0.97	1	2.2	1.3	192.9	0.16	0.10	0.3	1.00	8,28,28,8
295	ok	s=11,m=12	3.52e-03	0.05	0.35	1	2.2	1.3	192.9	0.16	0.04	0.3	1.00	66,38,18,66
296	ok	s=11,m=12	1.68e-03	0.10	0.63	1	2.2	1.3	192.9	0.16	0.02	0.3	1.00	66,28,8,66
297	ok	s=11,m=12	9.31e-04	0.11	0.68	1	2.2	1.3	192.9	0.16	0.01	0.3	1.00	72,18,8,72
298	ok	s=11,m=12	6.55e-04	0.11	0.69	1	2.2	1.3	192.9	0.16	7.40e-03	0.3	1.00	72,8,8,72
299	ok	s=11,m=12	5.39e-04	0.11	0.65	1	2.2	1.3	192.9	0.16	6.09e-03	0.3	1.00	72,8,18,72
300	ok	s=11,m=12	6.78e-04	0.07	0.42	1	2.2	1.3	192.9	0.16	7.66e-03	0.3	1.00	61,18,8,61
Pilas.			V V/T	V N/M	V stab		LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT	
										0.16			1.00	
			8.57e-03	0.15	0.97		2.22	1.35	192.92		0.10	0.29		

Pilas.	f.Om. N	f.Om. T	Stato	V V/T	V N/M	V stab	V flst	Rif. cmb	V[7.5.10]	V Ed	sovr. Xi	sovr. Xf	sovr. Yi	sovr. Yf
288	0.0	0.0	ok	0.0	0.0			0,0,0,0		daN				
289	0.0	0.0	ok	0.0	0.0			0,0,0,0						
290	0.0	0.0	ok	0.0	0.0			0,0,0,0						
291	0.0	0.0	ok	0.0	0.0			0,0,0,0						
292	0.0	0.0	ok	0.0	0.0			0,0,0,0						
293	0.0	0.0	ok	0.0	0.0			0,0,0,0						
294	0.0	0.0	ok	0.0	0.0			0,0,0,0						
295	0.0	0.0	ok	0.0	0.0			0,0,0,0						
296	0.0	0.0	ok	0.0	0.0			0,0,0,0						



Pilas.	f.Om. N	f.Om. T	Stato	V V/T	V N/M	V stab	V flst	Rif. cmb	V[7.5.10]	V Ed	sovr. Xi	sovr. Xf	sovr. Yi	sovr. Yf
297	0.0	0.0	ok	0.0	0.0			0,0,0,0						
298	0.0	0.0	ok	0.0	0.0			0,0,0,0						
299	0.0	0.0	ok	0.0	0.0			0,0,0,0						
300	0.0	0.0	ok	0.0	0.0			0,0,0,0						
Pilas.				V V/T	V N/M	V stab	V flst		V[7.5.10]	V Ed	sovr. Xi	sovr. Xf	sovr. Yi	sovr. Yf
				0.0	0.0									

VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

In tabella vengono riportati per ogni elemento il numero identificativo ed il codice di verifica con le sigle **Ok** o **NV**.

Nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite (**S.L.**) vengono riportati: il rapporto x/d , le verifiche per sollecitazioni proporzionali e la verifica per compressione media con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

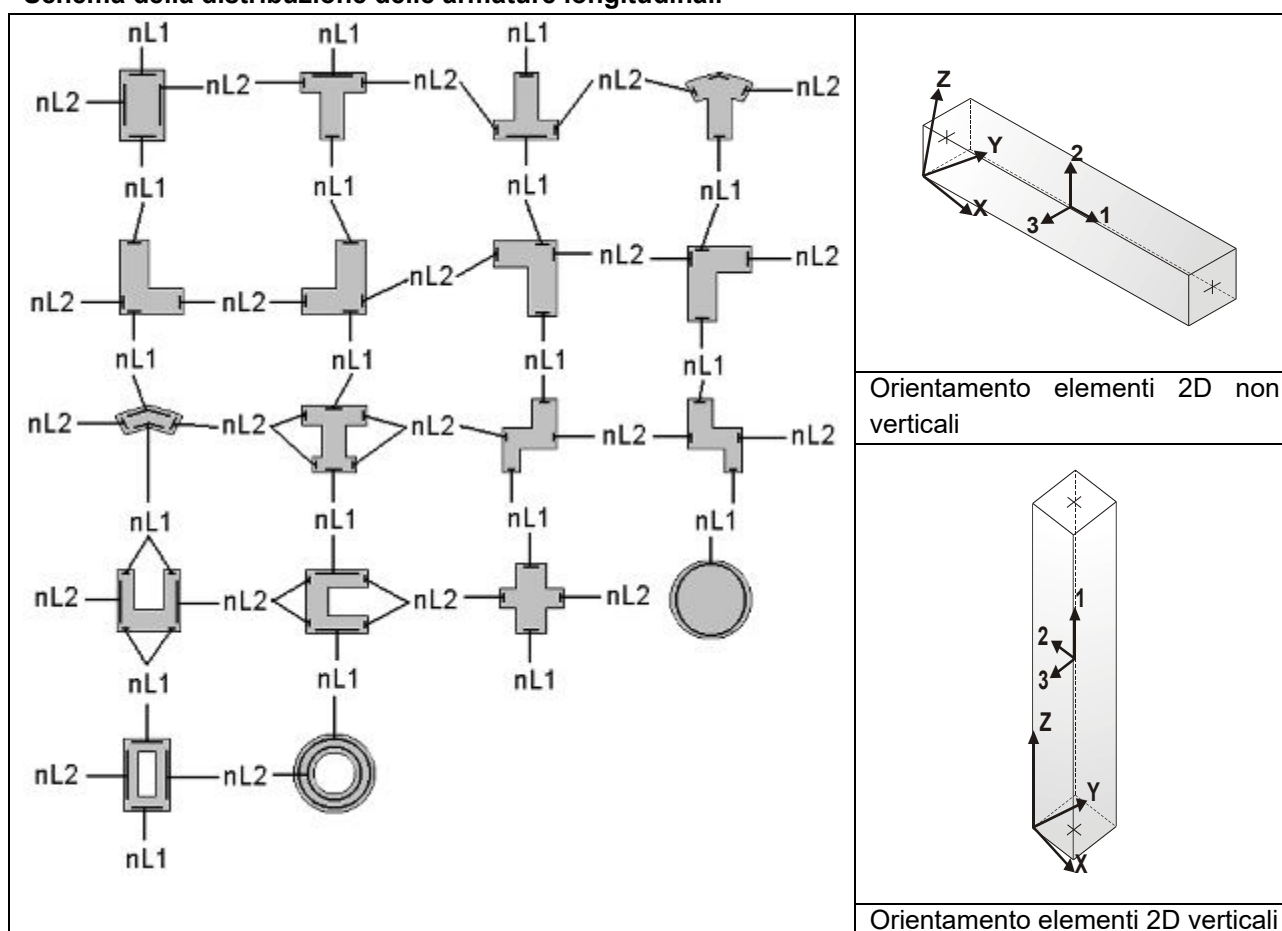
Nel caso in cui si sia proceduto alla progettazione con le tensioni ammissibili (**T.A.**) vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima compressione media nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale) con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

Nel caso in cui la struttura abbia comportamento dissipativo e sia prevista la progettazione con il criterio della gerarchia delle resistenze (**G.R.**) vengono riportate le verifiche di sovrarresistenza e del nodo.

Per gli elementi tipo pilastro sono riportati numero e diametro dei ferri di vertice, numero e diametro di ferri disposti lungo i lati L1 (paralleli alla base della sezione) e lungo i lati L2 (paralleli all'altezza della sezione).

Per gli elementi tipo trave sono riportati infine le quantità di armatura inferiore e superiore.

Schema della distribuzione delle armature longitudinali



Simbologia adottata nelle tabelle di verifica

Per le verifiche agli S.L. dei pilastri è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)
Pilas.	numero identificativo dell'elemento D2
Note	Codici identificativi delle sezione (s) e materiale (m) pilastro
Stato	Codici relativi all'esito delle verifiche effettuate appresso descritte
Quota	Quota sezione di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
r. snell.	Rapporto di snellezza λ su λ^* : valore superiore a 1 per elementi snelli nel caso in cui viene effettuata la verifica con il metodo diretto dello stato di equilibrio
Armat. long.	Numero e diametro (d) dei ferri di armatura longitudinale distinti in ferri di vertice + ferri di lato nelle posizioni nL1 e nL2, come da schemi in figura precedente
V N/M	Verifica a pressoflessione con rapporto E_d/R_d : valore minore o uguale a 1 per verifica positiva
V N sis	Verifica a compressione solo calcestruzzo con rapporto N_{sd}/N_{rd} ed N_{rd} calcolato come al punto 7.4.4.2.1: valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} : valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il pilastro

Per le verifiche di gerarchia delle resistenze dei pilastri è presente una tabella con i simboli di seguito descritti:

Pilas.	numero identificativo dell'elemento D2 pilastro
sovr. Xi (Xf)	Verifica sovrarresistenza come da formula 7.4.4 in direzione X, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
sovr. Yi (Yf)	Verifica sovrarresistenza come da formula 7.4.4 in direzione Y, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
M 2-2 i (f)	Valore del momento resistente 2-2 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
M 3-3 i (f)	Valore del momento resistente 3-3 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M2-2 (M3-3)	Valore del taglio generato dai momenti resistenti 2-2 (3-3)

Per le verifiche dei dettagli costruttivi relativi alla duttilità è presente una tabella con i simboli di seguito descritti:
(Non presente nel caso di comportamento strutturale non dissipativo)

Pilas	Numero identificativo D2 pilastro
ni	Sforzo assiale adimensionalizzato di progetto relativo alla combinazione sismica SLV
alfaomega	Prodotto tra il coefficiente di efficacia del confinamento e il rapporto meccanico dell'armatura trasversale di confinamento all'interno del nodo
V.7.4.29 2-2 (3-3)	Rapporto tra la domanda di staffe minima nel nodo e il rapporto meccanico dell'armatura trasversale di confinamento inserito all'interno del nodo in direzione 2 (3)

V. 7.4.29	Codici relativi all'esito della verifica 7.4.29
Stato	
dmu_fi 2-2 (3-	Domanda in duttilità di curvatura in direzione 2 (3)
3)	
cmu_fi 2-2 (3-	Capacità in duttilità di curvatura in direzione 2 (3)
3)	
V. dutt. 2-2 (3-	Rapporto tra la domanda in duttilità di curvatura e la capacità in duttilità di curvatura in
3)	direzione 2 (3)

Per le verifiche dei nodi trave-pilastro di elementi nuovi è presente una tabella con i simboli di seguito descritti:

Nodo	Numero identificativo del nodo trave-pilastro
Stato	Esito delle verifiche
Pilastro	Numero identificativo D2 pilastro
Diam st	Diametro staffe nodo
Passo	Passo staffe nodo
n. br. 2 (3)	Numero braccia staffe per il taglio in direzione 2 (3)
Bj2 (3)	Larghezza effettiva del nodo per il taglio in direzione 2 (3)
Hjc2 (3)	Distanza tra le giaciture più esterne delle armature del pilastro per il taglio in direzione 2 (3)
V. 7.4.8	Rapporto tra il taglio Vjbd e il taglio resistente come da formula 7.4.8
V. Ash	Rapporto tra il passo staffe calcolato secondo il capitolo 7.4.4.3.1. e il passo staffe effettivamente inserita nel nodo. Nel caso di valore indica passo staffe utilizzato deriva dalle formule presenti nel paragrafo 7.4.4.3.1. Nel caso di valore minore di 1 il passo staffe utilizzato deriva del pilastro superiore o inferiore al nodo
7.4.10	Check passo staffe valutato in funzione della formula 7.4.10: • SI il passo staffe è calcolato utilizzando la formula 7.4.10; • NO il passo staffe è calcolato utilizzando le formule 7.4.11 e/o 7.4.12; • NR calcolo passo staffe non richiesto;
Rif. comb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il nodo

Per le verifiche dei nodi trave-pilastro di elementi esistenti è presente una tabella con i simboli di seguito descritti:

Pilastro I	Numero identificativo D2 del pilastro inferiore.
Pilastro S	Numero identificativo D2 del pilastro superiore.
Nodo	Numero identificativo del nodo trave-pilastro.
SL cod	Stato limite di riferimento e relativo esito delle verifiche.
ver. (+)	Coefficiente di sicurezza, calcolato come rapporto D/C, nei riguardi della verifica di resistenza a trazione
V +	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a trazione
V + af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a trazione
N +	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a trazione
ver. (-)	Coefficiente di sicurezza, calcolato come rapporto D/C, nei riguardi della verifica di resistenza a compressione
V -	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a compressione
V - af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a compressione
N -	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a compressione
AreaV2	Area resistente del nodo in direzione 2 ($A_{j2}=b_{j2}*h_{jc2}$).
AreaV3	Area resistente del nodo in direzione 3 ($A_{j3}=b_{j3}*h_{jc3}$).

Rif. comb.	Combinazione (direzione) di riferimento nella verifica di trazione.
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Per le verifiche agli S.L. delle travi è presente una tabella con i simboli di seguito descritti:

M_T Z P P	Numero della travata (T), quota media (Z), n° pilastrata iniziale (P) e finale (P) (nodo in assenza di pilastrata)
Trave	numero identificativo dell'elemento D2
Note	Codici identificativi sezione (s) e materiale (m) trave; sono inoltre presenti le sigle relative all'esito delle verifiche effettuate appresso descritte
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
Af inf.	Area di armatura longitudinale posta all'intradosso
Af sup	Area di armatura longitudinale posta all'estradosso
Af long.	Area complessiva armatura longitudinale
x/d	rapporto tra posizione dell'asse neutro e altezza utile
V N/M	Verifica a pressoflessione rapporto E_d/R_d : valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} : valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per la trave

Per le verifiche di gerarchia delle resistenze delle travi è presente una tabella con i simboli di seguito descritti:

Trave	numero identificativo dell'elemento D2 trave
M negativo i	Valore del momento resistente negativo all'estremità iniziale i (finale f) della trave
M positivo i (f)	Valore del momento resistente positivo all'estremità iniziale i (finale f) della trave
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M-i M+f	Taglio generato dai momenti resistenti negativo i e positivo f
V M+i M-f	Taglio generato dai momenti resistenti positivo i e negativo f
V _{Ed, min}	Valore di taglio minimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
V _{Ed, max}	Valore di taglio massimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
V _{r1}	Valore di taglio come da formula 7.4.1 per armatura diagonale (solo per CD "A")
As	Area singolo ordine armature diagonali come da formula 7.4.2 (solo per CD "A")

Per le verifiche a taglio ciclico di travi e pilastri esistenti è presente una tabella con i simboli di seguito descritti:

Trave/Pilastro	Numero identificativo dell'elemento D2 trave/pilastro
V. SLV	Codice relativo all'esito delle verifiche
Nodo	Numero identificativo del nodo di verifica
Ver. VC	Fattore di sicurezza nei confronti della verifica a taglio ciclico (verificato se < 1.00)
Direz.	Direzione di verifica
N fr	Valore di sforzo normale calcolato con fattore di comportamento fragile
V fr	Valore di taglio calcolato con fattore di comportamento fragile
M fr	Valore di momento calcolato con fattore di comportamento fragile
N dutt	Valore di sforzo normale calcolato con fattore di comportamento duttile
LV	Lunghezza di taglio
Mud,pl	Parte plastica della domanda di duttilità
V cic	Resistenza a taglio in condizioni cicliche (C8.7.2.8)
Cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

Pilas.	Note	Stato	Quota	%Af	M_P= 1 r. snell.	X=0.0 Armat. long.	Y=1080.0 V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
			cm						L=cm			
516	s=17,m=3	ok,ok	-113.7	0.74	0.06	4d16 2+4 d16	0.22	0.10	2+2d8/15 L=59	0.09	0.12	47,62,54,49
			-84.3	0.74	0.06	4d16 2+4 d16	0.21	0.10	2+2d8/15 L=59	0.09	0.12	47,62,54,49
	[b=1.0;1.0]		-55.0	0.74	0.06	4d16 2+4 d16	0.20	0.10	2+2d8/15 L=59	0.09	0.12	55,62,54,49
520	s=17,m=3	ok,ok	-55.0	0.74	0.05	4d16 2+4 d16	0.21	0.09	2+2d8/15 L=55	0.11	0.13	55,62,49,49
			-27.5	0.74	0.05	4d16 2+4 d16	0.20	0.09	2+2d8/15 L=55	0.11	0.13	55,62,49,49
	[b=1.0;1.0]		0.0	0.74	0.05	4d16 2+4 d16	0.20	0.09	2+2d8/15 L=55	0.11	0.13	55,62,49,49
518	s=17,m=3	ok,ok	0.0	0.74	0.04	4d16 2+4 d16	0.20	0.10	2+2d8/15 L=40	0.11	0.14	55,77,49,49
			20.0	0.74	0.04	4d16 2+4 d16	0.21	0.10	2+2d8/15 L=40	0.11	0.14	55,77,49,49
	[b=1.0;1.0]		40.0	0.74	0.04	4d16 2+4 d16	0.21	0.10	2+2d8/15 L=40	0.11	0.14	55,77,49,49
522	s=17,m=3	ok,ok	40.0	0.74	0.04	4d16 2+4 d16	0.21	0.10	2+2d8/15 L=40	0.11	0.14	55,77,49,49
			60.0	0.74	0.04	4d16 2+4 d16	0.22	0.10	2+2d8/15 L=40	0.11	0.14	55,77,49,49
	[b=1.0;1.0]		80.0	0.74	0.04	4d16 2+4 d16	0.22	0.10	2+2d8/15 L=40	0.11	0.14	55,77,49,49
524	s=17,m=3	ok,ok	80.0	0.74	0.04	4d16 2+4 d16	0.22	0.11	2+2d8/15 L=40	0.11	0.15	55,75,49,49
			100.0	0.74	0.04	4d16 2+4 d16	0.22	0.11	2+2d8/15 L=40	0.11	0.15	60,75,49,49
	[b=1.0;1.0]		120.0	0.74	0.04	4d16 2+4 d16	0.23	0.11	2+2d8/15 L=40	0.11	0.15	56,75,49,49
526	s=17,m=3	ok,ok	120.0	0.74	0.04	4d16 2+4 d16	0.23	0.12	2+2d8/15 L=40	0.12	0.15	56,75,49,49
			140.0	0.74	0.04	4d16 2+4 d16	0.24	0.12	2+2d8/15 L=40	0.12	0.15	56,75,49,49
	[b=1.0;1.0]		160.0	0.74	0.04	4d16 2+4 d16	0.25	0.12	2+2d8/15 L=40	0.12	0.15	56,75,49,49
528	s=17,m=3	ok,ok	160.0	0.74	0.04	4d16 2+4 d16	0.24	0.13	2+2d8/15 L=40	0.12	0.16	56,75,49,49
			180.0	0.74	0.04	4d16 2+4 d16	0.25	0.13	2+2d8/15 L=40	0.12	0.16	56,75,49,49
	[b=1.0;1.0]		200.0	0.74	0.04	4d16 2+4 d16	0.26	0.12	2+2d8/15 L=40	0.12	0.16	56,75,49,49
530	s=17,m=3	ok,ok	200.0	0.74	0.04	4d16 2+4 d16	0.26	0.13	2+2d8/15 L=40	0.14	0.18	56,75,49,49
			220.0	0.74	0.04	4d16 2+4 d16	0.27	0.13	2+2d8/15 L=40	0.14	0.18	56,75,49,49
	[b=1.0;1.0]		240.0	0.74	0.04	4d16 2+4 d16	0.28	0.13	2+2d8/15 L=40	0.14	0.18	56,75,49,49
532	s=17,m=3	ok,ok	240.0	0.74	0.04	4d16 2+4 d16	0.28	0.14	2+2d8/15 L=40	0.17	0.21	56,75,49,57
			260.0	0.74	0.04	4d16 2+4 d16	0.30	0.14	2+2d8/15 L=40	0.17	0.21	56,75,49,57
	[b=1.0;1.0]		280.0	0.74	0.04	4d16 2+4 d16	0.31	0.14	2+2d8/15 L=40	0.17	0.21	56,75,49,57
534	s=17,m=3	ok,ok	280.0	0.74	0.04	4d16 2+4 d16	0.32	0.14	2+2d8/15 L=40	0.20	0.26	56,75,49,49
			300.0	0.74	0.04	4d16 2+4 d16	0.34	0.14	2+2d8/15 L=40	0.20	0.26	57,75,49,49
	[b=1.0;1.0]		320.0	0.74	0.04	4d16 2+4 d16	0.37	0.14	2+2d8/15 L=40	0.20	0.26	57,75,49,49
536	s=17,m=3	ok,ok	320.0	0.74	0.06	4d16 2+4 d16	0.37	0.21	2+2d8/15 L=40	0.26	0.35	57,75,57,57
			340.0	0.74	0.06	4d16 2+4 d16	0.32	0.21	2+2d8/15 L=40	0.26	0.35	57,75,57,57
	[b=1.0;1.0]		360.0	0.74	0.06	4d16 2+4 d16	0.27	0.21	2+2d8/15 L=40	0.26	0.35	57,75,57,57
540	s=17,m=3	ok,ok	360.0	0.74	0.05	4d16 2+4 d16	0.27	0.21	2+2d8/15 L=40	0.23	0.31	57,75,49,49
			380.0	0.74	0.05	4d16 2+4 d16	0.23	0.21	2+2d8/15 L=40	0.23	0.31	57,75,49,49
	[b=1.0;1.0]		400.0	0.74	0.05	4d16 2+4 d16	0.19	0.21	2+2d8/15 L=40	0.23	0.31	57,75,49,49
542	s=17,m=3	ok,ok	400.0	0.74	0.06	4d16 2+4 d16	0.19	0.21	2+2d8/15 L=40	0.22	0.29	57,75,49,49
			420.0	0.74	0.06	4d16 2+4 d16	0.15	0.21	2+2d8/15 L=40	0.22	0.29	57,75,49,49
	[b=1.0;1.0]		440.0	0.74	0.06	4d16 2+4 d16	0.12	0.21	2+2d8/15 L=40	0.22	0.29	49,75,49,49
538	s=17,m=3	ok,ok	440.0	0.74	0.06	4d16 2+4 d16	0.11	0.22	2+2d8/15 L=40	0.17	0.25	57,75,48,49
			460.0	0.74	0.06	4d16 2+4 d16	0.09	0.22	2+2d8/15 L=40	0.17	0.25	74,75,48,49
	[b=1.0;1.0]		480.0	0.74	0.06	4d16 2+4 d16	0.10	0.22	2+2d8/15 L=40	0.17	0.25	74,75,48,49
					M_P= 16	X=1900.0	Y=1080.0					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
517	s=17,m=3	ok,ok	-113.7	0.74	0.06	4d16 2+4 d16	0.15	0.10	2+2d8/15 L=59	0.05	0.08	50,67,24,56
			-84.3	0.74	0.06	4d16 2+4 d16	0.14	0.10	2+2d8/15 L=59	0.05	0.08	50,67,24,56
	[b=1.0;1.0]		-55.0	0.74	0.06	4d16 2+4 d16	0.14	0.10	2+2d8/15 L=59	0.05	0.08	58,67,24,56
521	s=17,m=3	ok,ok	-55.0	0.74	0.05	4d16 2+4 d16	0.14	0.09	2+2d8/15 L=55	0.06	0.08	58,67,48,48
			-27.5	0.74	0.05	4d16 2+4 d16	0.15	0.09	2+2d8/15 L=55	0.06	0.08	58,67,48,48
	[b=1.0;1.0]		0.0	0.74	0.05	4d16 2+4 d16	0.16	0.09	2+2d8/15 L=55	0.06	0.08	58,67,48,48
519	s=17,m=3	ok,ok	0.0	0.74	0.04	4d16 2+4 d16	0.16	0.09	2+2d8/15 L=40	0.07	0.09	58,67,48,48
			20.0	0.74	0.04	4d16 2+4 d16	0.17	0.09	2+2d8/15 L=40	0.07	0.09	58,67,48,48
	[b=1.0;1.0]		40.0	0.74	0.04	4d16 2+4 d16	0.18	0.09	2+2d8/15 L=40	0.07	0.09	58,67,48,48
523	s=17,m=3	ok,ok	40.0	0.74	0.04	4d16 2+4 d16	0.18	0.09	2+2d8/15 L=40	0.07	0.10	58,67,48,48
			60.0	0.74	0.04	4d16 2+4 d16	0.19	0.09	2+2d8/15 L=40	0.07	0.10	58,67,48,48
	[b=1.0;1.0]		80.0	0.74	0.04	4d16 2+4 d16	0.20	0.09	2+2d8/15 L=40	0.07	0.10	58,67,48,48
525	s=17,m=3	ok,ok	80.0	0.74	0.04	4d16 2+4 d16	0.20	0.10	2+2d8/15 L=40	0.09	0.11	58,65,48,48
			100.0	0.74	0.04	4d16 2+4 d16	0.21	0.10	2+2d8/15 L=40	0.09	0.11	58,65,48,48
	[b=1.0;1.0]		120.0	0.74	0.04	4d16 2+4 d16	0.21	0.10	2+2d8/15 L=40	0.09	0.11	58,65,48,48
527	s=17,m=3	ok,ok	120.0	0.74	0.04	4d16 2+4 d16	0.22	0.10	2+2d8/15 L=40	0.09	0.12	58,65,48,48
			140.0	0.74	0.04	4d16 2+4 d16	0.23	0.10	2+2d8/15 L=40	0.09	0.12	58,65,48,48
	[b=1.0;1.0]		160.0	0.74	0.04	4d16 2+4 d16	0.24	0.10	2+2d8/15 L=40	0.09	0.12	58,65,48,48
529	s=17,m=3	ok,ok	160.0	0.74	0.04	4d16 2+4 d16	0.24	0.11	2+2d8/15 L=40	0.10	0.14	58,65,48,48
			180.0	0.74	0.04	4d16 2+4 d16	0.25	0.11	2+2d8/15 L=40	0.10	0.14	58,65,48,48
	[b=1.0;1.0]		200.0	0.74	0.04	4d16 2+4 d16	0.26	0.11	2+2d8/15 L=40	0.10	0.14	58,65,48,48
531	s=17,m=3	ok,ok	200.0	0.74	0.04	4d16 2+4 d16	0.26	0.12	2+2d8/15 L=40	0.12	0.16	58,65,48,51
			220.0	0.74	0.04	4d16 2+4 d16	0.28	0.12	2+2d8/15 L=40	0.12	0.16	58,65,48,51
	[b=1.0;1.0]		240.0	0.74	0.04	4d16 2+4 d16	0.29	0.12	2+2d8/15 L=40	0.12	0.16	58,65,48,51

533	s=17,m=3	ok,ok	240.0	0.74	0.04	4d16 2+4 d16	0.29	0.13	2+2d8/15 L=40	0.14	0.19	58,65,54,51
			260.0	0.74	0.04	4d16 2+4 d16	0.31	0.12	2+2d8/15 L=40	0.14	0.19	58,65,54,51
	[b=1.0;1.0]		280.0	0.74	0.04	4d16 2+4 d16	0.33	0.12	2+2d8/15 L=40	0.14	0.19	58,65,54,51
535	s=17,m=3	ok,ok	280.0	0.74	0.04	4d16 2+4 d16	0.33	0.14	2+2d8/15 L=40	0.20	0.25	58,65,54,54
			300.0	0.74	0.04	4d16 2+4 d16	0.36	0.14	2+2d8/15 L=40	0.20	0.25	58,65,54,54
	[b=1.0;1.0]		320.0	0.74	0.04	4d16 2+4 d16	0.38	0.14	2+2d8/15 L=40	0.20	0.25	58,65,54,54
537	s=17,m=3	ok,ok	320.0	0.74	0.05	4d16 2+4 d16	0.35	0.21	2+2d8/15 L=40	0.27	0.33	55,65,62,62
			340.0	0.74	0.05	4d16 2+4 d16	0.31	0.21	2+2d8/15 L=40	0.27	0.33	55,65,62,62
	[b=1.0;1.0]		360.0	0.74	0.05	4d16 2+4 d16	0.26	0.21	2+2d8/15 L=40	0.27	0.33	55,65,62,62
541	s=17,m=3	ok,ok	360.0	0.74	0.05	4d16 2+4 d16	0.25	0.21	2+2d8/15 L=40	0.25	0.31	55,65,62,62
			380.0	0.74	0.05	4d16 2+4 d16	0.22	0.21	2+2d8/15 L=40	0.25	0.31	55,65,62,62
	[b=1.0;1.0]		400.0	0.74	0.05	4d16 2+4 d16	0.18	0.21	2+2d8/15 L=40	0.25	0.31	58,65,62,62
543	s=17,m=3	ok,ok	400.0	0.74	0.06	4d16 2+4 d16	0.18	0.21	2+2d8/15 L=40	0.22	0.28	58,65,54,54
			420.0	0.74	0.06	4d16 2+4 d16	0.15	0.21	2+2d8/15 L=40	0.22	0.28	58,65,54,54
	[b=1.0;1.0]		440.0	0.74	0.06	4d16 2+4 d16	0.12	0.21	2+2d8/15 L=40	0.22	0.28	58,65,54,54
539	s=17,m=3	ok,ok	440.0	0.74	0.06	4d16 2+4 d16	0.11	0.22	2+2d8/15 L=40	0.18	0.25	58,65,50,50
			460.0	0.74	0.06	4d16 2+4 d16	0.09	0.22	2+2d8/15 L=40	0.18	0.25	50,65,50,50
	[b=1.0;1.0]		480.0	0.74	0.06	4d16 2+4 d16	0.10	0.22	2+2d8/15 L=40	0.18	0.25	68,65,50,50
Pilas.				%Af	r. snell.		V N/M	V N sis		V V/T cls	V V/T acc	
				0.74	0.06		0.38	0.22		0.27	0.35	

Nodo	Conf.	Stato	Pilas.	Diam st	Passo	n. br. 2	Bj2	Hjc2	n. br. 3	Bj3	Hjc3	V. 7.4.8	V. Ash	7.4.10	Rif. cmb
				mm	cm		cm	cm		cm	cm				
514	NO	ok	538	8	8.0	2	45.0	52.8	2	60.0	37.8	0.5	0.8	NO	47,62
649	NO	ok	539	8	8.0	2	45.0	52.8	2	60.0	37.8	0.5	0.8	NO	47,48
Nodo					Passo							V. 7.4.8	V. Ash		
					8.00										
												0.52	0.82		

Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	M _T = 47	Z=-113.7	P=1	P=16	Staffe	Rif. cmb
		cm					x/d	V N/M	V V/T cls	V V/T acc	L=cm	
359	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.19	0.07	0.11	2d8/15 L=70	8,8,10
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.13	0.06	0.10	2d8/15 L=70	8,8,10
		100.0	0.22	12.2	12.5	0.0	0.05	0.08	0.06	0.08	2d8/15 L=70	12,8,10
546	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.08	0.05	0.08	2d8/15 L=1	12,8,10
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.04	0.04	0.07	2d8/15 L=99	47,8,8
		100.0	0.22	12.2	12.5	0.0	0.05	0.03	0.04	0.05	2d8/15 L=99	20,8,8
547	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.03	0.04	0.05	2d8/15 L=100	20,8,8
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.06	0.03	0.04	2d8/15 L=100	20,8,8
		100.0	0.22	12.2	12.5	0.0	0.04	0.08	0.02	0.03	2d8/15 L=100	20,8,8
548	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.08	0.02	0.03	2d8/15 L=100	20,8,8
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.10	0.02	0.03	2d8/15 L=100	20,8,8
		100.0	0.22	12.2	12.5	0.0	0.04	0.11	0.02	0.02	2d8/15 L=100	20,8,8
549	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.11	0.02	0.02	2d8/15 L=100	20,8,8
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.12	0.01	0.01	2d8/15 L=100	20,8,8
		100.0	0.22	12.2	12.5	0.0	0.04	0.12	0.01	8.71e-03	2d8/15 L=100	20,12,12
550	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.12	0.01	8.71e-03	2d8/15 L=100	20,12,12
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.13	9.16e-03	5.63e-03	2d8/15 L=100	20,55,12
		100.0	0.22	12.2	12.5	0.0	0.04	0.13	8.42e-03	3.45e-03	2d8/15 L=100	20,55,11
551	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.13	8.39e-03	3.44e-03	2d8/15 L=100	20,55,11
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.13	9.03e-03	2.08e-03	2d8/15 L=100	20,55,11
		100.0	0.22	12.2	12.5	0.0	0.04	0.13	9.44e-03	1.99e-03	2d8/15 L=100	20,55,20
552	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.13	9.41e-03	1.99e-03	2d8/15 L=100	20,55,20
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.13	9.61e-03	2.23e-03	2d8/15 L=100	20,55,20
		100.0	0.22	12.2	12.5	0.0	0.04	0.12	9.63e-03	2.01e-03	2d8/15 L=100	20,55,20
553	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.12	9.66e-03	2.01e-03	2d8/15 L=100	20,55,20
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.12	9.55e-03	1.53e-03	2d8/15 L=100	20,55,47
		100.0	0.22	12.2	12.5	0.0	0.04	0.12	9.36e-03	1.86e-03	2d8/15 L=100	20,55,50
554	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.12	9.38e-03	1.87e-03	2d8/15 L=100	20,55,50
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.12	9.14e-03	2.50e-03	2d8/15 L=100	10,55,50
		100.0	0.22	12.2	12.5	0.0	0.04	0.12	9.11e-03	3.14e-03	2d8/15 L=100	10,55,50
555	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.12	9.09e-03	3.14e-03	2d8/15 L=100	10,55,50
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.13	9.49e-03	3.73e-03	2d8/15 L=100	10,55,50
		100.0	0.22	12.2	12.5	0.0	0.04	0.13	9.84e-03	4.29e-03	2d8/15 L=100	10,55,12
556	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.13	9.80e-03	4.29e-03	2d8/15 L=100	10,55,12



	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.13	0.01	4.64e-03	2d8/15 L=100	10,55,12	
		100.0	0.22	12.2	12.5	0.0	0.04	0.13	0.01	4.65e-03	2d8/15 L=100	10,55,12	
557	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.13	0.01	4.66e-03	2d8/15 L=100	10,55,12	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.14	0.01	4.21e-03	2d8/15 L=100	10,55,12	
		100.0	0.22	12.2	12.5	0.0	0.04	0.14	9.74e-03	3.21e-03	2d8/15 L=100	10,55,50	
558	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.14	9.90e-03	3.22e-03	2d8/15 L=100	10,55,50	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.14	0.01	1.98e-03	2d8/15 L=100	10,47,26	
		100.0	0.22	12.2	12.5	0.0	0.04	0.14	0.01	4.81e-03	2d8/15 L=100	8,47,26	
559	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.14	0.01	4.81e-03	2d8/15 L=100	8,47,26	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.14	0.01	8.75e-03	2d8/15 L=100	8,47,20	
		100.0	0.22	12.2	12.5	0.0	0.04	0.13	0.02	0.01	2d8/15 L=100	8,47,20	
560	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.13	0.02	0.01	2d8/15 L=100	8,18,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.12	0.02	0.02	2d8/15 L=100	8,18,20	
		100.0	0.22	12.2	12.5	0.0	0.04	0.11	0.02	0.03	2d8/15 L=100	8,18,20	
561	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.11	0.03	0.03	2d8/15 L=100	8,18,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.09	0.03	0.04	2d8/15 L=100	8,18,20	
		100.0	0.22	12.2	12.5	0.0	0.04	0.07	0.04	0.05	2d8/15 L=100	50,18,20	
562	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.06	0.04	0.05	2d8/15 L=99	8,18,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.04	0.04	0.06	2d8/15 L=99	50,18,20	
		100.0	0.22	12.2	12.5	0.0	0.05	0.04	0.05	0.08	2d8/15 L=1	26,18,20	
563	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.04	0.05	0.08	2d8/15 L=70	26,18,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.09	0.06	0.09	2d8/15 L=70	20,18,20	
		100.0	0.22	12.2	12.5	0.0	0.05	0.15	0.07	0.11	2d8/15 L=70	20,28,20	
M T= 48 Z=-113.7 N=1801 N=1840													
Trave	Note	Pos.	%Af	Af inf.	Af sup.	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
360	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.14	0.08	0.10	2d8/15 L=100	8,28,18	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.08	0.07	0.09	2d8/15 L=100	8,28,18	
		100.0	0.22	12.2	12.5	0.0	0.05	0.03	0.07	0.07	2d8/15 L=100	11,28,18	
564	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.04	0.06	0.07	2d8/15 L=1	47,28,18	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.03	0.05	0.06	2d8/15 L=99	20,8,18	
		100.0	0.22	12.2	12.5	0.0	0.04	0.06	0.04	0.05	2d8/15 L=99	20,8,18	
565	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.06	0.04	0.05	2d8/15 L=100	20,8,18	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.08	0.04	0.04	2d8/15 L=100	20,8,28	
		100.0	0.22	12.2	12.5	0.0	0.04	0.10	0.03	0.03	2d8/15 L=100	20,8,8	
566	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.10	0.03	0.03	2d8/15 L=100	20,8,8	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.11	0.03	0.02	2d8/15 L=100	20,8,8	
		100.0	0.22	12.2	12.5	0.0	0.04	0.12	0.02	0.01	2d8/15 L=100	18,8,8	
567	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.12	0.02	0.01	2d8/15 L=100	18,8,8	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.13	0.02	0.01	2d8/15 L=100	18,8,8	
		100.0	0.22	12.2	12.5	0.0	0.04	0.13	0.02	7.18e-03	2d8/15 L=100	18,12,12	
568	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.13	0.02	7.18e-03	2d8/15 L=100	18,12,12	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.13	0.02	5.45e-03	2d8/15 L=100	18,12,11	
		100.0	0.22	12.2	12.5	0.0	0.04	0.14	0.02	4.57e-03	2d8/15 L=100	18,12,11	
569	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.14	0.02	4.56e-03	2d8/15 L=100	18,12,11	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.14	0.02	4.26e-03	2d8/15 L=100	18,12,11	
		100.0	0.22	12.2	12.5	0.0	0.04	0.14	0.02	4.47e-03	2d8/15 L=100	18,12,11	
570	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.14	0.02	4.48e-03	2d8/15 L=100	18,12,11	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.14	0.02	5.09e-03	2d8/15 L=100	18,12,11	
		100.0	0.22	12.2	12.5	0.0	0.04	0.14	0.02	6.01e-03	2d8/15 L=100	18,12,11	
571	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.14	0.02	6.02e-03	2d8/15 L=100	18,12,11	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.15	0.02	7.15e-03	2d8/15 L=100	28,12,11	
		100.0	0.22	12.2	12.5	0.0	0.04	0.15	0.02	8.45e-03	2d8/15 L=100	28,12,12	
572	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.15	0.02	8.44e-03	2d8/15 L=100	28,12,12	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.16	0.02	9.87e-03	2d8/15 L=100	28,12,12	
		100.0	0.22	12.2	12.5	0.0	0.04	0.16	0.02	0.01	2d8/15 L=100	28,8,12	
573	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.16	0.02	0.01	2d8/15 L=100	28,8,12	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.17	0.02	0.01	2d8/15 L=100	8,8,8	
		100.0	0.22	12.2	12.5	0.0	0.04	0.18	0.02	0.01	2d8/15 L=100	8,8,8	
574	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.18	0.02	0.01	2d8/15 L=100	8,8,8	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.19	0.02	0.01	2d8/15 L=100	8,8,8	
		100.0	0.22	12.2	12.5	0.0	0.04	0.19	0.02	0.01	2d8/15 L=100	8,8,8	
575	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.19	0.02	0.01	2d8/15 L=100	8,8,8	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.20	0.02	0.01	2d8/15 L=100	8,8,8	
		100.0	0.22	12.2	12.5	0.0	0.04	0.21	0.02	9.10e-03	2d8/15 L=100	8,8,8	
576	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.21	0.02	9.09e-03	2d8/15 L=100	8,8,8	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.21	0.02	5.46e-03	2d8/15 L=100	8,8,12	
		100.0	0.22	12.2	12.5	0.0	0.04	0.21	0.02	1.67e-03	2d8/15 L=100	8,55,24	
577	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.21	0.02	1.65e-03	2d8/15 L=100	8,55,24	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.21	0.02	8.06e-03	2d8/15 L=100	8,55,18	
		100.0	0.22	12.2	12.5	0.0	0.04	0.20	0.03	0.02	2d8/15 L=100	8,8,18	
578	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.20	0.03	0.02	2d8/15 L=100	8,8,18	



	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.19	0.03	0.03	2d8/15 L=100	8,8,18	
		100.0	0.22	12.2	12.5	0.0	0.04	0.17	0.04	0.04	2d8/15 L=100	8,8,18	
579	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.17	0.04	0.04	2d8/15 L=100	8,8,18	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.14	0.05	0.06	2d8/15 L=100	8,8,18	
		100.0	0.22	12.2	12.5	0.0	0.04	0.10	0.06	0.07	2d8/15 L=100	8,8,28	
580	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.10	0.06	0.07	2d8/15 L=99	8,8,28	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.05	0.07	0.09	2d8/15 L=99	58,8,28	
		100.0	0.22	12.2	12.5	0.0	0.05	0.03	0.08	0.12	2d8/15 L=1	24,8,8	
581	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.03	0.10	0.12	2d8/15 L=100	24,8,8	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.11	0.11	0.14	2d8/15 L=100	18,8,8	
		100.0	0.22	12.2	12.5	0.0	0.05	0.21	0.13	0.17	2d8/15 L=100	18,8,8	
M_T= 49 Z=-113.7 N=1778 N=1827													
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
361	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.09	0.04	0.05	2d8/15 L=100	10,40,10	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.06	0.04	0.05	2d8/15 L=100	14,10,10	
		100.0	0.22	12.2	12.5	0.0	0.05	0.04	0.03	0.04	2d8/15 L=100	12,10,10	
582	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.04	0.03	0.04	2d8/15 L=1	12,10,10	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.03	0.02	0.03	2d8/15 L=99	11,10,10	
		100.0	0.22	12.2	12.5	0.0	0.05	0.03	0.02	0.03	2d8/15 L=99	20,10,10	
583	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.03	0.02	0.03	2d8/15 L=100	20,10,10	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.04	0.01	0.02	2d8/15 L=100	20,10,10	
		100.0	0.22	12.2	12.5	0.0	0.05	0.05	0.01	0.02	2d8/15 L=100	20,10,10	
584	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.05	0.01	0.02	2d8/15 L=100	20,10,10	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.06	7.56e-03	0.01	2d8/15 L=100	20,10,10	
		100.0	0.22	12.2	12.5	0.0	0.05	0.06	6.68e-03	8.10e-03	2d8/15 L=100	20,58,10	
585	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.06	6.57e-03	8.10e-03	2d8/15 L=100	20,58,10	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.06	5.97e-03	5.53e-03	2d8/15 L=100	20,58,14	
		100.0	0.22	12.2	12.5	0.0	0.05	0.06	5.50e-03	4.24e-03	2d8/15 L=100	20,58,12	
586	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.06	5.48e-03	4.24e-03	2d8/15 L=100	20,58,12	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.06	5.11e-03	3.35e-03	2d8/15 L=100	20,58,12	
		100.0	0.22	12.2	12.5	0.0	0.05	0.06	4.83e-03	2.79e-03	2d8/15 L=100	20,58,11	
587	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.06	4.82e-03	2.79e-03	2d8/15 L=100	20,62,11	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.06	4.90e-03	2.33e-03	2d8/15 L=100	20,55,11	
		100.0	0.22	12.2	12.5	0.0	0.04	0.06	5.17e-03	1.95e-03	2d8/15 L=100	20,55,20	
588	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.06	5.18e-03	1.95e-03	2d8/15 L=100	20,55,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.06	5.40e-03	1.94e-03	2d8/15 L=100	40,55,20	
		100.0	0.22	12.2	12.5	0.0	0.04	0.06	5.59e-03	1.72e-03	2d8/15 L=100	40,55,20	
589	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.06	5.57e-03	1.72e-03	2d8/15 L=100	40,55,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.06	5.72e-03	1.68e-03	2d8/15 L=100	40,55,55	
		100.0	0.22	12.2	12.5	0.0	0.04	0.06	5.86e-03	1.71e-03	2d8/15 L=100	40,55,47	
590	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.06	6.07e-03	1.71e-03	2d8/15 L=100	40,55,47	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.06	6.19e-03	1.74e-03	2d8/15 L=100	40,47,50	
		100.0	0.22	12.2	12.5	0.0	0.04	0.06	6.33e-03	1.94e-03	2d8/15 L=100	40,47,50	
591	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.06	6.15e-03	1.94e-03	2d8/15 L=100	40,47,50	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.06	6.28e-03	2.11e-03	2d8/15 L=100	40,47,50	
		100.0	0.22	12.2	12.5	0.0	0.04	0.06	6.41e-03	2.24e-03	2d8/15 L=100	40,47,66	
592	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.06	6.59e-03	2.24e-03	2d8/15 L=100	40,47,66	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.06	6.72e-03	2.34e-03	2d8/15 L=100	40,47,66	
		100.0	0.22	12.2	12.5	0.0	0.04	0.06	6.85e-03	2.32e-03	2d8/15 L=100	40,47,66	
593	ok,ok	0.0	0.22	12.2	12.5	0.0	0.04	0.06	6.66e-03	2.32e-03	2d8/15 L=100	40,47,66	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.04	0.06	6.80e-03	2.16e-03	2d8/15 L=100	10,47,66	
		100.0	0.22	12.2	12.5	0.0	0.05	0.06	6.96e-03	2.33e-03	2d8/15 L=100	10,47,23	
594	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.06	6.92e-03	2.32e-03	2d8/15 L=100	10,47,23	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.07	7.10e-03	2.78e-03	2d8/15 L=100	10,47,24	
		100.0	0.22	12.2	12.5	0.0	0.05	0.07	7.32e-03	3.53e-03	2d8/15 L=100	10,47,24	
595	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.07	7.31e-03	3.53e-03	2d8/15 L=100	10,47,24	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.06	7.63e-03	4.91e-03	2d8/15 L=100	10,47,26	
		100.0	0.22	12.2	12.5	0.0	0.05	0.06	8.15e-03	7.32e-03	2d8/15 L=100	10,47,20	
596	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.06	8.21e-03	7.32e-03	2d8/15 L=100	10,47,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.06	9.05e-03	0.01	2d8/15 L=100	10,47,20	
		100.0	0.22	12.2	12.5	0.0	0.05	0.05	0.01	0.01	2d8/15 L=100	10,20,20	
597	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.05	0.01	0.01	2d8/15 L=100	10,20,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.04	0.01	0.02	2d8/15 L=100	10,20,20	
		100.0	0.22	12.2	12.5	0.0	0.05	0.03	0.02	0.02	2d8/15 L=100	10,20,20	
598	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.03	0.02	0.02	2d8/15 L=99	10,20,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.03	0.02	0.03	2d8/15 L=99	23,20,20	
		100.0	0.22	12.2	12.5	0.0	0.05	0.03	0.03	0.04	2d8/15 L=1	24,20,20	
599	ok,ok	0.0	0.22	12.2	12.5	0.0	0.05	0.03	0.03	0.04	2d8/15 L=100	24,20,20	
	s=13,m=3	50.0	0.22	12.2	12.5	0.0	0.05	0.05	0.04	0.04	2d8/15 L=100	26,20,20	
		100.0	0.22	12.2	12.5	0.0	0.05	0.08	0.04	0.05	2d8/15 L=100	20,40,20	
M_T= 50 Z=-113.7 N=1766 N=1815													



Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
362	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.07	0.14	0.05	2d8/15 L=97	18,74,74
	s=14,m=3	48.4	0.21	21.4	20.9	0.0	0.04	0.08	0.12	0.03	2d8/15 L=97	18,74,74
		96.9	0.21	21.4	20.9	0.0	0.04	0.07	0.11	0.03	2d8/15 L=97	18,74,51
600	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.07	0.11	0.03	2d8/15 L=40	18,74,51
	s=14,m=3	48.4	0.21	21.4	20.9	0.0	0.04	0.06	0.11	0.06	2d8/15 L=57	18,78,18
		96.9	0.21	21.4	20.9	0.0	0.04	0.04	0.12	0.08	2d8/15 L=57	74,78,18
601	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.04	0.12	0.08	2d8/15 L=57	74,78,18
	s=14,m=3	48.4	0.21	21.4	20.9	0.0	0.06	0.02	0.14	0.12	2d8/15 L=57	74,38,18
		96.9	0.21	21.4	20.9	0.0	0.06	0.05	0.15	0.15	2d8/15 L=40	51,38,18
602	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.05	0.15	0.15	2d8/15 L=97	51,38,18
	s=14,m=3	48.4	0.21	21.4	20.9	0.0	0.06	0.11	0.17	0.19	2d8/15 L=97	28,38,18
		96.9	0.21	21.4	20.9	0.0	0.06	0.18	0.20	0.22	2d8/15 L=97	18,38,18
363	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.17	0.11	0.14	2d8/15 L=94	28,28,8
	s=14,m=3	46.9	0.21	21.4	20.9	0.0	0.06	0.14	0.09	0.10	2d8/15 L=94	18,28,8
		93.8	0.21	21.4	20.9	0.0	0.06	0.12	0.07	0.07	2d8/15 L=94	47,73,50
603	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.12	0.07	0.07	2d8/15 L=8	47,73,50
	s=14,m=3	46.9	0.21	21.4	20.9	0.0	0.06	0.13	0.07	0.04	2d8/15 L=86	47,71,50
		93.8	0.21	21.4	20.9	0.0	0.06	0.15	0.09	0.07	2d8/15 L=86	47,71,47
604	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.15	0.09	0.07	2d8/15 L=86	47,71,47
	s=14,m=3	46.9	0.21	21.4	20.9	0.0	0.06	0.18	0.11	0.10	2d8/15 L=86	47,71,51
		93.8	0.21	21.4	20.9	0.0	0.06	0.22	0.13	0.13	2d8/15 L=8	47,71,18
605	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.22	0.13	0.13	2d8/15 L=94	47,71,18
	s=14,m=3	46.9	0.21	21.4	20.9	0.0	0.06	0.27	0.15	0.18	2d8/15 L=94	47,71,18
		93.8	0.21	21.4	20.9	0.0	0.06	0.33	0.17	0.23	2d8/15 L=94	47,71,18
374	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.26	0.04	0.05	2d8/15 L=42	47,51,51
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.25	0.05	0.06	2d8/15 L=42	47,51,51
		41.7	0.21	21.4	20.9	0.0	0.06	0.25	0.06	0.08	2d8/15 L=42	47,51,51
373	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.25	0.09	0.14	2d8/15 L=42	47,50,50
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.23	0.08	0.12	2d8/15 L=42	47,50,50
		41.7	0.21	21.4	20.9	0.0	0.06	0.21	0.07	0.11	2d8/15 L=42	47,50,50
372	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.21	0.09	0.14	2d8/15 L=42	47,50,50
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.19	0.08	0.12	2d8/15 L=42	47,50,50
		41.7	0.21	21.4	20.9	0.0	0.06	0.17	0.07	0.11	2d8/15 L=42	63,50,50
371	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.17	0.07	0.11	2d8/15 L=42	63,50,50
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.16	0.06	0.09	2d8/15 L=42	63,50,50
		41.7	0.21	21.4	20.9	0.0	0.06	0.15	0.05	0.08	2d8/15 L=42	71,50,50
370	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.15	0.05	0.07	2d8/15 L=42	71,50,50
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.15	0.04	0.06	2d8/15 L=42	71,47,47
		41.7	0.21	21.4	20.9	0.0	0.06	0.15	0.05	0.07	2d8/15 L=42	71,47,47
369	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.15	0.06	0.08	2d8/15 L=42	71,47,47
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.16	0.07	0.10	2d8/15 L=42	71,47,47
		41.7	0.21	21.4	20.9	0.0	0.06	0.17	0.07	0.11	2d8/15 L=42	71,47,47
368	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.17	0.07	0.11	2d8/15 L=42	71,47,47
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.19	0.08	0.13	2d8/15 L=42	71,47,47
		41.7	0.21	21.4	20.9	0.0	0.06	0.21	0.09	0.14	2d8/15 L=42	47,47,47
367	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.21	0.07	0.11	2d8/15 L=42	47,47,47
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.23	0.08	0.13	2d8/15 L=42	47,47,47
		41.7	0.21	21.4	20.9	0.0	0.06	0.25	0.09	0.14	2d8/15 L=42	47,47,47
365	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.25	0.05	0.07	2d8/15 L=42	47,50,50
	s=14,m=3	20.8	0.21	21.4	20.9	0.0	0.06	0.25	0.04	0.06	2d8/15 L=42	47,50,50
		41.7	0.21	21.4	20.9	0.0	0.06	0.25	0.04	0.04	2d8/15 L=42	47,50,50
364	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.30	0.16	0.23	2d8/15 L=94	12,28,8
	s=14,m=3	46.9	0.21	21.4	20.9	0.0	0.06	0.23	0.14	0.18	2d8/15 L=94	12,28,8
		93.8	0.21	21.4	20.9	0.0	0.06	0.18	0.11	0.14	2d8/15 L=94	12,54,8
606	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.18	0.11	0.14	2d8/15 L=8	12,54,8
	s=14,m=3	46.9	0.21	21.4	20.9	0.0	0.06	0.14	0.09	0.10	2d8/15 L=86	12,54,50
		93.8	0.21	21.4	20.9	0.0	0.06	0.12	0.07	0.07	2d8/15 L=86	12,54,50
607	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.12	0.07	0.07	2d8/15 L=86	12,54,50
	s=14,m=3	46.9	0.21	21.4	20.9	0.0	0.06	0.11	0.05	0.04	2d8/15 L=86	12,54,47
		93.8	0.21	21.4	20.9	0.0	0.06	0.12	0.06	0.07	2d8/15 L=8	8,28,47
608	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.12	0.06	0.07	2d8/15 L=94	8,28,47
	s=14,m=3	46.9	0.21	21.4	20.9	0.0	0.06	0.14	0.09	0.10	2d8/15 L=94	8,28,18
		93.8	0.21	21.4	20.9	0.0	0.06	0.18	0.11	0.14	2d8/15 L=94	8,28,18
366	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.18	0.20	0.23	2d8/15 L=97	8,38,8
	s=14,m=3	48.4	0.21	21.4	20.9	0.0	0.06	0.11	0.18	0.19	2d8/15 L=97	8,38,8
		96.9	0.21	21.4	20.9	0.0	0.06	0.06	0.16	0.15	2d8/15 L=97	28,38,8
609	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.06	0.16	0.15	2d8/15 L=40	28,38,8
	s=14,m=3	48.4	0.21	21.4	20.9	0.0	0.06	0.02	0.14	0.12	2d8/15 L=57	74,38,8
		96.9	0.21	21.4	20.9	0.0	0.04	0.04	0.12	0.09	2d8/15 L=57	74,38,8
610	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.04	0.12	0.09	2d8/15 L=57	74,38,8



	s=14,m=3	48.4	0.21	21.4	20.9	0.0	0.04	0.05	0.11	0.06	2d8/15 L=57	8,38,8	
		96.9	0.21	21.4	20.9	0.0	0.04	0.07	0.09	0.04	2d8/15 L=40	8,71,74	
611	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.07	0.09	0.04	2d8/15 L=97	8,71,74	
	s=14,m=3	48.4	0.21	21.4	20.9	0.0	0.04	0.08	0.10	0.03	2d8/15 L=97	8,71,71	
		96.9	0.21	21.4	20.9	0.0	0.04	0.08	0.11	0.05	2d8/15 L=97	8,71,71	
M_T= 51 Z=-113.7 N=1811 N=1842													
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
375	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.02	2d8/15 L=37	18,58,58	
	s=14,m=3	18.3	0.21	21.4	20.9	0.0	0.04	0.06	0.02	0.02	2d8/15 L=37	18,67,67	
		36.7	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.04	2d8/15 L=37	18,44,67	
407	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.02	0.01	2d8/15 L=37	18,58,55	
	s=14,m=3	18.3	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.02	2d8/15 L=37	18,46,55	
		36.7	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.04	2d8/15 L=37	18,44,28	
404	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.02	7.51e-03	2d8/15 L=37	18,58,58	
	s=14,m=3	18.3	0.21	21.4	20.9	0.0	0.04	0.06	0.02	0.02	2d8/15 L=37	18,46,10	
		36.7	0.21	21.4	20.9	0.0	0.04	0.05	0.03	0.04	2d8/15 L=37	18,44,28	
402	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.05	0.01	6.29e-03	2d8/15 L=38	18,44,78	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.05	0.02	0.02	2d8/15 L=38	18,44,40	
		37.8	0.21	21.4	20.9	0.0	0.04	0.05	0.03	0.04	2d8/15 L=38	18,44,18	
405	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.05	0.01	6.43e-03	2d8/15 L=38	18,46,75	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.05	0.02	0.02	2d8/15 L=38	18,44,18	
		37.8	0.21	21.4	20.9	0.0	0.04	0.04	0.03	0.04	2d8/15 L=38	68,44,18	
415	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.05	0.01	0.01	2d8/15 L=38	66,55,75	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.04	0.02	0.03	2d8/15 L=38	68,55,18	
		37.8	0.21	21.4	20.9	0.0	0.04	0.04	0.03	0.05	2d8/15 L=38	68,34,18	
414	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.05	0.02	0.02	2d8/15 L=38	68,55,18	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.04	0.03	0.04	2d8/15 L=38	68,34,18	
		37.8	0.21	21.4	20.9	0.0	0.04	0.04	0.04	0.06	2d8/15 L=38	76,28,18	
413	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.04	0.02	0.03	2d8/15 L=38	72,55,18	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.04	0.03	0.05	2d8/15 L=38	76,28,18	
		37.8	0.21	21.4	20.9	0.0	0.04	0.05	0.05	0.07	2d8/15 L=38	76,28,18	
412	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.05	2d8/15 L=38	72,28,18	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.06	0.07	0.04	0.07	2d8/15 L=38	72,28,18	
		37.8	0.21	21.4	20.9	0.0	0.06	0.08	0.06	0.09	2d8/15 L=38	72,28,18	
411	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.09	0.04	0.06	2d8/15 L=38	72,28,38	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.06	0.09	0.05	0.08	2d8/15 L=38	72,28,18	
		37.8	0.21	21.4	20.9	0.0	0.06	0.10	0.06	0.10	2d8/15 L=38	72,28,18	
410	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.11	0.04	0.06	2d8/15 L=38	74,28,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.06	0.12	0.06	0.09	2d8/15 L=38	74,28,8	
		37.8	0.21	21.4	20.9	0.0	0.06	0.13	0.07	0.11	2d8/15 L=38	74,28,8	
408	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.15	0.04	0.05	2d8/15 L=38	78,55,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.06	0.16	0.05	0.08	2d8/15 L=38	78,8,8	
		37.8	0.21	21.4	20.9	0.0	0.06	0.17	0.06	0.10	2d8/15 L=38	78,28,8	
401	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.17	0.03	0.04	2d8/15 L=45	78,55,55	
	s=14,m=3	22.5	0.21	21.4	20.9	0.0	0.06	0.17	0.04	0.06	2d8/15 L=45	74,55,55	
		45.0	0.21	21.4	20.9	0.0	0.06	0.18	0.05	0.08	2d8/15 L=45	76,55,8	
403	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.19	0.04	0.05	2d8/15 L=45	76,58,58	
	s=14,m=3	22.5	0.21	21.4	20.9	0.0	0.06	0.19	0.03	0.04	2d8/15 L=45	76,55,55	
		45.0	0.21	21.4	20.9	0.0	0.06	0.20	0.04	0.06	2d8/15 L=45	76,55,55	
406	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.20	0.05	0.08	2d8/15 L=45	60,58,58	
	s=14,m=3	22.5	0.21	21.4	20.9	0.0	0.06	0.20	0.04	0.06	2d8/15 L=45	60,58,58	
		45.0	0.21	21.4	20.9	0.0	0.06	0.20	0.03	0.04	2d8/15 L=45	60,55,58	
409	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.21	0.07	0.12	2d8/15 L=45	60,8,8	
	s=14,m=3	22.5	0.21	21.4	20.9	0.0	0.06	0.20	0.06	0.09	2d8/15 L=45	60,8,8	
		45.0	0.21	21.4	20.9	0.0	0.06	0.19	0.04	0.06	2d8/15 L=45	60,8,8	
400	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.17	0.07	0.12	2d8/15 L=120	60,8,8	
	s=14,m=3	60.0	0.21	21.4	20.9	0.0	0.06	0.14	0.04	0.05	2d8/15 L=120	76,58,58	
		120.0	0.21	21.4	20.9	0.0	0.06	0.14	0.03	0.04	2d8/15 L=120	76,55,55	
399	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.15	0.05	0.08	2d8/15 L=50	76,8,8	
	s=14,m=3	25.0	0.21	21.4	20.9	0.0	0.06	0.14	0.03	0.05	2d8/15 L=50	76,8,8	
		50.0	0.21	21.4	20.9	0.0	0.06	0.14	0.02	0.02	2d8/15 L=50	76,47,8	
398	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.13	0.08	0.13	2d8/15 L=180	60,8,8	
	s=14,m=3	90.0	0.21	21.4	20.9	0.0	0.04	0.10	0.02	0.03	2d8/15 L=180	64,58,58	
		180.0	0.21	21.4	20.9	0.0	0.06	0.12	0.07	0.12	2d8/15 L=180	76,18,18	
397	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.14	0.01	3.17e-03	2d8/15 L=50	60,47,26	
	s=14,m=3	25.0	0.21	21.4	20.9	0.0	0.06	0.14	0.02	0.04	2d8/15 L=50	60,47,18	
		50.0	0.21	21.4	20.9	0.0	0.06	0.15	0.04	0.07	2d8/15 L=50	60,28,18	
396	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.15	0.04	0.06	2d8/15 L=120	60,58,58	
	s=14,m=3	60.0	0.21	21.4	20.9	0.0	0.06	0.15	0.04	0.05	2d8/15 L=120	60,55,55	
		120.0	0.21	21.4	20.9	0.0	0.06	0.18	0.07	0.12	2d8/15 L=120	60,18,18	
395	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.16	0.04	0.07	2d8/15 L=37	76,18,18	

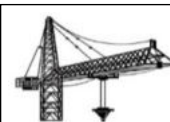


	s=14,m=3	18.8	0.21	21.4	20.9	0.0	0.06	0.16	0.06	0.09	2d8/15 L=37	76,18,18	
		37.5	0.21	21.4	20.9	0.0	0.06	0.17	0.07	0.12	2d8/15 L=37	76,18,18	
394	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.17	0.03	0.04	2d8/15 L=37	60,55,55	
	s=14,m=3	18.8	0.21	21.4	20.9	0.0	0.06	0.17	0.04	0.06	2d8/15 L=37	60,55,55	
		37.5	0.21	21.4	20.9	0.0	0.06	0.18	0.05	0.08	2d8/15 L=37	60,55,55	
393	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.18	0.03	0.04	2d8/15 L=37	60,55,55	
	s=14,m=3	18.8	0.21	21.4	20.9	0.0	0.06	0.18	0.04	0.06	2d8/15 L=37	60,55,55	
		37.5	0.21	21.4	20.9	0.0	0.06	0.18	0.05	0.08	2d8/15 L=37	76,55,55	
392	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.20	0.03	0.04	2d8/15 L=37	76,58,58	
	s=14,m=3	18.8	0.21	21.4	20.9	0.0	0.06	0.20	0.04	0.05	2d8/15 L=37	76,55,55	
		37.5	0.21	21.4	20.9	0.0	0.06	0.20	0.05	0.07	2d8/15 L=37	76,55,55	
391	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.20	0.03	0.04	2d8/15 L=37	68,58,58	
	s=14,m=3	18.8	0.21	21.4	20.9	0.0	0.06	0.20	0.03	0.04	2d8/15 L=37	68,55,55	
		37.5	0.21	21.4	20.9	0.0	0.06	0.20	0.04	0.06	2d8/15 L=37	68,55,55	
390	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.19	0.03	0.05	2d8/15 L=37	68,58,58	
	s=14,m=3	18.8	0.21	21.4	20.9	0.0	0.06	0.19	0.02	0.03	2d8/15 L=37	68,58,58	
		37.5	0.21	21.4	20.9	0.0	0.06	0.19	0.03	0.04	2d8/15 L=37	68,55,55	
389	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.18	0.04	0.06	2d8/15 L=37	68,38,18	
	s=14,m=3	18.8	0.21	21.4	20.9	0.0	0.06	0.18	0.02	0.03	2d8/15 L=37	68,58,58	
		37.5	0.21	21.4	20.9	0.0	0.06	0.17	0.02	0.02	2d8/15 L=37	68,55,58	
388	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.16	0.05	0.08	2d8/15 L=37	68,38,18	
	s=14,m=3	18.8	0.21	21.4	20.9	0.0	0.06	0.16	0.04	0.06	2d8/15 L=37	68,38,18	
		37.5	0.21	21.4	20.9	0.0	0.06	0.15	0.03	0.03	2d8/15 L=37	68,44,18	
387	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.15	0.07	0.11	2d8/15 L=38	68,38,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.06	0.14	0.05	0.08	2d8/15 L=38	68,38,8	
		37.8	0.21	21.4	20.9	0.0	0.06	0.13	0.04	0.05	2d8/15 L=38	68,44,8	
386	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.11	0.07	0.12	2d8/15 L=38	68,38,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.06	0.10	0.06	0.09	2d8/15 L=38	68,38,8	
		37.8	0.21	21.4	20.9	0.0	0.06	0.09	0.04	0.06	2d8/15 L=38	68,44,8	
385	ok,ok	0.0	0.21	21.4	20.9	0.0	0.06	0.07	0.07	0.11	2d8/15 L=38	64,38,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.06	0.06	0.06	0.08	2d8/15 L=38	64,38,8	
		37.8	0.21	21.4	20.9	0.0	0.04	0.06	0.04	0.06	2d8/15 L=38	64,44,8	
384	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.04	0.06	0.10	2d8/15 L=38	64,44,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.05	0.05	0.07	2d8/15 L=38	64,44,8	
		37.8	0.21	21.4	20.9	0.0	0.04	0.05	0.04	0.04	2d8/15 L=38	68,44,8	
383	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.05	0.05	0.08	2d8/15 L=38	66,44,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.05	0.04	0.05	2d8/15 L=38	66,44,8	
		37.8	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.02	2d8/15 L=38	66,44,8	
382	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.05	0.05	0.06	2d8/15 L=38	66,44,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.05	0.03	0.03	2d8/15 L=38	66,44,8	
		37.8	0.21	21.4	20.9	0.0	0.04	0.05	0.02	0.01	2d8/15 L=38	8,44,70	
381	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.05	0.04	0.04	2d8/15 L=38	8,44,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.02	2d8/15 L=38	8,44,8	
		37.8	0.21	21.4	20.9	0.0	0.04	0.06	0.02	0.01	2d8/15 L=38	8,43,63	
380	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.03	2d8/15 L=38	8,44,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.06	0.02	8.02e-03	2d8/15 L=38	8,44,66	
		37.8	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.02	2d8/15 L=38	8,44,24	
379	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.02	2d8/15 L=38	8,44,8	
	s=14,m=3	18.9	0.21	21.4	20.9	0.0	0.04	0.06	0.02	7.90e-03	2d8/15 L=38	8,43,63	
		37.8	0.21	21.4	20.9	0.0	0.04	0.06	0.04	0.03	2d8/15 L=38	8,44,28	
378	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.02	2d8/15 L=37	8,44,40	
	s=14,m=3	18.3	0.21	21.4	20.9	0.0	0.04	0.06	0.03	9.37e-03	2d8/15 L=37	8,43,55	
		36.7	0.21	21.4	20.9	0.0	0.04	0.06	0.04	0.03	2d8/15 L=37	8,44,12	
377	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.04	0.03	2d8/15 L=37	8,44,38	
	s=14,m=3	18.3	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.01	2d8/15 L=37	8,44,40	
		36.7	0.21	21.4	20.9	0.0	0.04	0.06	0.03	0.02	2d8/15 L=37	8,44,55	
376	ok,ok	0.0	0.21	21.4	20.9	0.0	0.04	0.06	0.05	0.05	2d8/15 L=37	8,44,38	
	s=14,m=3	18.3	0.21	21.4	20.9	0.0	0.04	0.06	0.04	0.03	2d8/15 L=37	8,44,38	
		36.7	0.21	21.4	20.9	0.0	0.04	0.06	0.03	8.51e-03	2d8/15 L=37	8,55,59	
							M_T = 52	Z = -113.7	N = 1763	N = 1811			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
416	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	4.00e-03	0.01	0.02	2d8/15 L=40	61,34,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	3.96e-03	6.58e-03	6.19e-03	2d8/15 L=40	57,71,75	
		40.0	0.22	15.6	15.1	0.0	0.05	5.93e-03	0.02	0.03	2d8/15 L=40	75,8,38	
418	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	7.10e-03	0.01	0.01	2d8/15 L=40	77,78,62	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	8.46e-03	0.02	0.02	2d8/15 L=40	75,12,75	
		40.0	0.22	15.6	15.1	0.0	0.05	0.01	0.03	0.04	2d8/15 L=40	75,8,8	
420	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.01	0.02	0.02	2d8/15 L=40	71,12,62	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.02	0.03	0.02	2d8/15 L=40	71,12,8	
		40.0	0.22	15.6	15.1	0.0	0.05	0.02	0.04	0.04	2d8/15 L=40	71,8,8	
422	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.06	0.16	0.03	2d8/15 L=40	74,8,74	



	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.05	0.16	0.03	2d8/15 L=40	74,8,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.04	0.17	0.05	2d8/15 L=40	74,8,71	
424	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.04	0.15	0.02	2d8/15 L=40	74,8,74	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.04	0.15	0.03	2d8/15 L=40	74,8,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.03	0.17	0.05	2d8/15 L=40	38,8,71	
426	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.03	0.14	0.02	2d8/15 L=40	38,8,74	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.14	0.02	2d8/15 L=40	38,8,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.16	0.04	2d8/15 L=40	38,8,71	
428	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.02	0.14	0.02	2d8/15 L=40	49,8,33	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.02	0.14	0.01	2d8/15 L=40	49,8,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.15	0.03	2d8/15 L=40	49,8,38	
430	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.02	0.13	0.02	2d8/15 L=40	49,8,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.02	0.13	0.01	2d8/15 L=40	49,8,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.14	0.03	2d8/15 L=40	69,8,38	
432	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.03	0.13	0.02	2d8/15 L=40	57,8,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.13	7.88e-03	2d8/15 L=40	57,8,38	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.14	0.03	2d8/15 L=40	57,8,38	
434	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.03	0.13	0.02	2d8/15 L=40	57,8,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.12	7.63e-03	2d8/15 L=40	57,8,38	
		40.0	0.22	15.6	15.1	0.0	0.04	0.03	0.14	0.03	2d8/15 L=40	69,8,38	
436	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.03	0.12	0.02	2d8/15 L=40	57,8,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.12	9.56e-03	2d8/15 L=40	57,8,38	
		40.0	0.22	15.6	15.1	0.0	0.04	0.03	0.14	0.03	2d8/15 L=40	57,8,38	
438	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.04	0.12	0.01	2d8/15 L=40	57,8,18	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.04	0.12	0.01	2d8/15 L=40	57,8,43	
		40.0	0.22	15.6	15.1	0.0	0.05	0.05	0.14	0.04	2d8/15 L=40	57,8,38	
440	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.05	0.12	0.01	2d8/15 L=40	57,28,20	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.05	0.12	0.02	2d8/15 L=40	57,28,11	
		40.0	0.22	15.6	15.1	0.0	0.05	0.06	0.14	0.04	2d8/15 L=40	57,28,44	
442	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.07	0.12	0.01	2d8/15 L=40	57,18,20	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.07	0.13	0.02	2d8/15 L=40	57,18,11	
		40.0	0.22	15.6	15.1	0.0	0.05	0.07	0.14	0.05	2d8/15 L=40	57,18,11	
444	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.08	0.13	0.02	2d8/15 L=40	57,20,20	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.08	0.13	0.02	2d8/15 L=40	57,18,11	
		40.0	0.22	15.6	15.1	0.0	0.05	0.09	0.14	0.05	2d8/15 L=40	57,18,11	
446	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.08	0.08	0.01	2d8/15 L=40	57,11,11	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.09	0.09	0.03	2d8/15 L=40	57,12,20	
		40.0	0.22	15.6	15.1	0.0	0.04	0.09	0.10	0.05	2d8/15 L=40	57,12,18	
448	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.10	0.08	0.01	2d8/15 L=40	57,11,11	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.10	0.08	0.03	2d8/15 L=40	57,12,20	
		40.0	0.22	15.6	15.1	0.0	0.05	0.11	0.10	0.05	2d8/15 L=40	57,12,18	
450	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.12	0.07	8.24e-03	2d8/15 L=40	57,11,11	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.12	0.08	0.02	2d8/15 L=40	57,12,18	
		40.0	0.22	15.6	15.1	0.0	0.05	0.12	0.10	0.05	2d8/15 L=40	57,8,18	
452	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.13	0.07	3.69e-03	2d8/15 L=40	57,12,20	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.13	0.08	0.03	2d8/15 L=40	57,8,18	
		40.0	0.22	15.6	15.1	0.0	0.05	0.14	0.10	0.06	2d8/15 L=40	57,8,18	
454	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.16	0.07	2.60e-03	2d8/15 L=40	57,12,54	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.16	0.08	0.03	2d8/15 L=40	57,28,18	
		40.0	0.22	15.6	15.1	0.0	0.05	0.16	0.10	0.06	2d8/15 L=40	57,28,38	
456	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.17	0.07	6.69e-03	2d8/15 L=40	57,28,11	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.17	0.08	0.02	2d8/15 L=40	57,28,18	
		40.0	0.22	15.6	15.1	0.0	0.05	0.18	0.10	0.05	2d8/15 L=40	57,28,38	
458	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.20	0.08	0.02	2d8/15 L=40	57,18,12	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.20	0.08	0.01	2d8/15 L=40	57,18,18	
		40.0	0.22	15.6	15.1	0.0	0.05	0.20	0.09	0.04	2d8/15 L=40	57,18,38	
460	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.20	0.09	0.02	2d8/15 L=40	57,18,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.20	0.08	7.78e-03	2d8/15 L=40	57,18,18	
		40.0	0.22	15.6	15.1	0.0	0.05	0.20	0.09	0.04	2d8/15 L=40	57,18,38	
462	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.21	0.09	0.03	2d8/15 L=40	57,18,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.21	0.07	4.23e-03	2d8/15 L=40	61,24,71	
		40.0	0.22	15.6	15.1	0.0	0.05	0.21	0.09	0.03	2d8/15 L=40	61,18,38	
464	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.22	0.10	0.04	2d8/15 L=40	61,18,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.21	0.08	0.01	2d8/15 L=40	61,18,54	
		40.0	0.22	15.6	15.1	0.0	0.05	0.21	0.09	0.02	2d8/15 L=40	61,24,44	
466	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.22	0.12	0.07	2d8/15 L=40	61,18,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.21	0.10	0.04	2d8/15 L=40	61,18,8	
		40.0	0.22	15.6	15.1	0.0	0.05	0.21	0.08	0.01	2d8/15 L=40	61,18,54	
468	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.21	0.15	0.12	2d8/15 L=17	61,18,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.19	0.13	0.09	2d8/15 L=17	61,18,8	
		40.0	0.22	15.6	15.1	0.0	0.05	0.18	0.11	0.06	2d8/15 L=17	61,18,8	

470	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.18	0.07	0.04	2d8/15 L=24	57,28,38	
	s=15,m=3	23.3	0.22	15.6	15.1	0.0	0.05	0.19	0.09	0.08	2d8/15 L=24	57,28,38	
		46.7	0.22	15.6	15.1	0.0	0.05	0.20	0.11	0.12	2d8/15 L=24	57,28,38	
472	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.20	0.05	0.01	2d8/15 L=47	57,34,70	
	s=15,m=3	23.3	0.22	15.6	15.1	0.0	0.05	0.20	0.07	0.03	2d8/15 L=47	57,8,38	
		46.7	0.22	15.6	15.1	0.0	0.05	0.21	0.09	0.07	2d8/15 L=47	57,8,38	
475	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.19	0.07	0.04	2d8/15 L=47	57,28,28	
	s=15,m=3	23.3	0.22	15.6	15.1	0.0	0.05	0.19	0.05	7.08e-03	2d8/15 L=47	57,8,67	
		46.7	0.22	15.6	15.1	0.0	0.05	0.20	0.07	0.04	2d8/15 L=47	57,8,38	
479	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.18	0.08	0.05	2d8/15 L=40	57,28,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.17	0.06	0.02	2d8/15 L=40	57,28,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.17	0.06	0.02	2d8/15 L=40	57,8,8	
483	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.16	0.09	0.06	2d8/15 L=40	57,28,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.15	0.07	0.03	2d8/15 L=40	57,28,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.15	0.06	5.92e-03	2d8/15 L=40	57,28,55	
485	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.13	0.10	0.07	2d8/15 L=40	57,28,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.12	0.08	0.04	2d8/15 L=40	57,28,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.12	0.06	4.23e-03	2d8/15 L=40	57,28,20	
487	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.10	0.11	0.08	2d8/15 L=40	57,18,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.09	0.09	0.05	2d8/15 L=40	61,18,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.08	0.07	0.01	2d8/15 L=40	61,18,28	
488	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.08	0.12	0.09	2d8/15 L=40	57,18,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.07	0.10	0.06	2d8/15 L=40	57,18,28	
		40.0	0.22	15.6	15.1	0.0	0.04	0.07	0.08	0.02	2d8/15 L=40	57,18,28	
489	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.06	0.14	0.11	2d8/15 L=40	57,18,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.07	0.12	0.07	2d8/15 L=40	57,18,28	
		40.0	0.22	15.6	15.1	0.0	0.04	0.08	0.10	0.04	2d8/15 L=40	57,18,28	
490	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.07	0.15	0.12	2d8/15 L=40	57,18,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.08	0.13	0.08	2d8/15 L=40	57,18,28	
		40.0	0.22	15.6	15.1	0.0	0.04	0.09	0.11	0.05	2d8/15 L=40	62,18,28	
491	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.05	0.18	0.02	2d8/15 L=40	62,18,33	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.05	0.18	0.02	2d8/15 L=40	62,18,10	
		40.0	0.22	15.6	15.1	0.0	0.04	0.05	0.20	0.05	2d8/15 L=40	62,18,8	
492	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.04	0.17	0.02	2d8/15 L=40	8,18,33	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.04	0.17	0.02	2d8/15 L=40	8,18,10	
		40.0	0.22	15.6	15.1	0.0	0.04	0.04	0.19	0.05	2d8/15 L=40	8,18,8	
493	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.04	0.17	0.03	2d8/15 L=40	8,28,33	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.04	0.16	0.01	2d8/15 L=40	8,8,40	
		40.0	0.22	15.6	15.1	0.0	0.04	0.03	0.18	0.05	2d8/15 L=40	8,8,8	
494	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.03	0.16	0.03	2d8/15 L=40	8,28,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.15	9.40e-03	2d8/15 L=40	8,8,55	
		40.0	0.22	15.6	15.1	0.0	0.04	0.03	0.17	0.05	2d8/15 L=40	28,8,8	
495	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.03	0.16	0.03	2d8/15 L=40	28,28,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.15	0.01	2d8/15 L=40	28,8,44	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.17	0.05	2d8/15 L=40	28,8,38	
496	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.02	0.16	0.02	2d8/15 L=40	28,8,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.15	0.02	2d8/15 L=40	28,8,44	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.17	0.05	2d8/15 L=40	34,8,38	
497	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.02	0.15	0.02	2d8/15 L=40	34,8,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.02	0.15	0.02	2d8/15 L=40	34,8,44	
		40.0	0.22	15.6	15.1	0.0	0.04	0.01	0.17	0.06	2d8/15 L=40	34,8,38	
498	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.01	0.15	0.02	2d8/15 L=40	34,8,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.01	0.15	0.02	2d8/15 L=40	34,8,44	
		40.0	0.22	15.6	15.1	0.0	0.05	9.62e-03	0.18	0.06	2d8/15 L=40	58,8,44	
499	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.01	0.16	0.02	2d8/15 L=40	70,8,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.01	0.15	0.02	2d8/15 L=40	70,38,44	
		40.0	0.22	15.6	15.1	0.0	0.05	0.01	0.18	0.06	2d8/15 L=40	43,8,44	
500	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.01	0.16	0.02	2d8/15 L=40	43,8,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.01	0.16	0.03	2d8/15 L=40	44,8,44	
		40.0	0.22	15.6	15.1	0.0	0.05	0.02	0.18	0.06	2d8/15 L=40	44,8,38	
							M_T= 53	Z=-113.7	N=1812	N=1842			
Trave	Note	Pos.	%Af	Af inf.	Af sup.	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
417	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	4.18e-03	0.01	0.02	2d8/15 L=40	59,24,33	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	3.69e-03	5.73e-03	5.59e-03	2d8/15 L=40	75,18,71	
		40.0	0.22	15.6	15.1	0.0	0.05	6.39e-03	0.02	0.03	2d8/15 L=40	75,18,38	
419	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	7.27e-03	0.02	0.02	2d8/15 L=40	75,74,74	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	8.37e-03	0.02	0.01	2d8/15 L=40	75,18,71	
		40.0	0.22	15.6	15.1	0.0	0.05	0.01	0.03	0.03	2d8/15 L=40	71,18,18	
421	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.01	0.02	0.02	2d8/15 L=40	75,50,74	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.02	0.03	0.02	2d8/15 L=40	71,18,18	
		40.0	0.22	15.6	15.1	0.0	0.05	0.02	0.04	0.04	2d8/15 L=40	71,18,18	



423	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.06	0.14	0.02	2d8/15 L=40	74,18,74	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.05	0.15	0.03	2d8/15 L=40	74,18,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.04	0.16	0.05	2d8/15 L=40	74,18,71	
425	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.04	0.14	0.02	2d8/15 L=40	74,18,74	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.04	0.14	0.03	2d8/15 L=40	38,18,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.03	0.16	0.05	2d8/15 L=40	38,18,71	
427	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.03	0.13	0.02	2d8/15 L=40	38,18,74	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.13	0.02	2d8/15 L=40	38,18,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.15	0.04	2d8/15 L=40	38,18,71	
429	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.02	0.13	0.02	2d8/15 L=40	38,18,33	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.02	0.13	0.01	2d8/15 L=40	38,18,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.14	0.03	2d8/15 L=40	38,18,38	
431	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.02	0.13	0.02	2d8/15 L=40	59,18,34	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.02	0.12	0.01	2d8/15 L=40	59,18,71	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.14	0.03	2d8/15 L=40	75,18,38	
433	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.02	0.13	0.02	2d8/15 L=40	59,18,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.12	7.53e-03	2d8/15 L=40	59,18,38	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.13	0.03	2d8/15 L=40	59,18,38	
435	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.02	0.12	0.02	2d8/15 L=40	59,18,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.02	0.12	7.01e-03	2d8/15 L=40	59,18,38	
		40.0	0.22	15.6	15.1	0.0	0.04	0.02	0.13	0.03	2d8/15 L=40	75,18,38	
437	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.03	0.12	0.02	2d8/15 L=40	59,18,18	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.03	0.11	8.74e-03	2d8/15 L=40	59,18,44	
		40.0	0.22	15.6	15.1	0.0	0.04	0.03	0.13	0.03	2d8/15 L=40	59,18,38	
439	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.04	0.12	0.01	2d8/15 L=40	59,28,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.04	0.12	0.01	2d8/15 L=40	59,28,43	
		40.0	0.22	15.6	15.1	0.0	0.05	0.04	0.13	0.04	2d8/15 L=40	59,28,38	
441	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.05	0.11	0.01	2d8/15 L=40	59,28,10	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.06	0.12	0.02	2d8/15 L=40	59,28,43	
		40.0	0.22	15.6	15.1	0.0	0.05	0.06	0.13	0.04	2d8/15 L=40	59,28,44	
443	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.07	0.12	0.01	2d8/15 L=40	59,10,10	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.07	0.12	0.02	2d8/15 L=40	59,8,23	
		40.0	0.22	15.6	15.1	0.0	0.05	0.07	0.14	0.05	2d8/15 L=40	59,8,23	
445	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.08	0.12	0.02	2d8/15 L=40	59,10,10	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.08	0.12	0.02	2d8/15 L=40	59,8,23	
		40.0	0.22	15.6	15.1	0.0	0.05	0.09	0.14	0.05	2d8/15 L=40	59,8,23	
447	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.09	0.06	0.01	2d8/15 L=40	59,23,23	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.09	0.07	0.03	2d8/15 L=40	59,24,10	
		40.0	0.22	15.6	15.1	0.0	0.04	0.09	0.08	0.05	2d8/15 L=40	59,24,8	
449	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.10	0.06	0.01	2d8/15 L=40	59,23,23	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.10	0.07	0.03	2d8/15 L=40	59,24,10	
		40.0	0.22	15.6	15.1	0.0	0.05	0.11	0.08	0.05	2d8/15 L=40	55,18,8	
451	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.11	0.05	6.44e-03	2d8/15 L=40	55,23,23	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.12	0.06	0.03	2d8/15 L=40	55,18,8	
		40.0	0.22	15.6	15.1	0.0	0.05	0.12	0.08	0.05	2d8/15 L=40	55,18,8	
453	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.14	0.05	6.36e-03	2d8/15 L=40	55,18,10	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.14	0.07	0.03	2d8/15 L=40	55,18,8	
		40.0	0.22	15.6	15.1	0.0	0.05	0.15	0.08	0.06	2d8/15 L=40	55,18,8	
455	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.16	0.05	8.87e-03	2d8/15 L=40	55,28,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.17	0.07	0.04	2d8/15 L=40	55,28,8	
		40.0	0.22	15.6	15.1	0.0	0.05	0.17	0.09	0.07	2d8/15 L=40	55,28,38	
457	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.20	0.06	0.01	2d8/15 L=40	55,28,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.20	0.07	0.04	2d8/15 L=40	55,28,8	
		40.0	0.22	15.6	15.1	0.0	0.05	0.21	0.09	0.07	2d8/15 L=40	55,28,38	
459	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.21	0.06	0.01	2d8/15 L=40	55,8,8	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.21	0.08	0.04	2d8/15 L=40	55,8,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.22	0.10	0.07	2d8/15 L=40	55,8,28	
461	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.23	0.07	0.02	2d8/15 L=40	55,8,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.24	0.09	0.05	2d8/15 L=40	55,8,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.25	0.11	0.08	2d8/15 L=40	55,8,28	
463	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.26	0.08	0.04	2d8/15 L=40	55,8,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.27	0.10	0.07	2d8/15 L=40	55,8,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.28	0.12	0.10	2d8/15 L=40	55,8,28	
465	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.29	0.10	0.06	2d8/15 L=40	56,8,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.30	0.11	0.09	2d8/15 L=40	56,8,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.32	0.13	0.12	2d8/15 L=40	56,8,28	
467	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.33	0.10	0.07	2d8/15 L=40	55,8,28	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.34	0.12	0.10	2d8/15 L=40	55,8,28	
		40.0	0.22	15.6	15.1	0.0	0.05	0.36	0.14	0.13	2d8/15 L=40	55,8,28	
469	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.36	0.07	0.01	2d8/15 L=17	56,12,75	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.36	0.09	0.04	2d8/15 L=17	56,12,34	



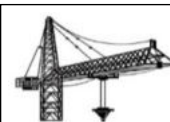
		40.0	0.22	15.6	15.1	0.0	0.05	0.37	0.11	0.07	2d8/15 L=17	56,12,28	
471	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.41	0.15	0.25	2d8/15 L=21	55,28,28	
	s=15,m=3	21.7	0.22	15.6	15.1	0.0	0.05	0.45	0.17	0.29	2d8/15 L=21	55,28,28	
		43.3	0.22	15.6	15.1	0.0	0.05	0.52	0.19	0.32	2d8/15 L=21	28,28,28	
474	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.53	0.04	0.05	2d8/15 L=43	28,73,75	
	s=15,m=3	21.7	0.22	15.6	15.1	0.0	0.05	0.55	0.06	0.09	2d8/15 L=43	28,8,28	
		43.3	0.22	15.6	15.1	0.0	0.05	0.57	0.08	0.12	2d8/15 L=43	28,8,28	
478	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.58	0.22	0.35	2d8/15 L=43	28,28,28	
	s=15,m=3	21.7	0.22	15.6	15.1	0.0	0.05	0.49	0.20	0.32	2d8/15 L=43	28,28,28	
		43.3	0.22	15.6	15.1	0.0	0.05	0.44	0.18	0.28	2d8/15 L=43	59,28,28	
482	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.53	0.32	0.53	2d8/15 L=106	28,28,28	
	s=15,m=3	145.0	0.22	15.6	15.1	0.0	0.04	0.10	0.19	0.31	2d8/15 L=77	56,28,28	
		290.0	0.22	15.6	15.1	0.0	0.04	0.39	0.07	0.09	2d8/15 L=106	28,28,28	
473	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.39	0.16	0.03	2d8/15 L=60	28,38,67	
	s=15,m=3	30.0	0.22	15.6	15.1	0.0	0.04	0.38	0.18	0.06	2d8/15 L=60	28,38,67	
		60.0	0.22	15.6	15.1	0.0	0.04	0.35	0.21	0.10	2d8/15 L=60	28,38,38	
480	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.22	0.17	0.04	2d8/15 L=47	28,8,38	
	s=15,m=3	23.3	0.22	15.6	15.1	0.0	0.04	0.20	0.19	0.08	2d8/15 L=47	28,8,18	
		46.7	0.22	15.6	15.1	0.0	0.04	0.18	0.21	0.11	2d8/15 L=47	28,8,18	
484	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.18	0.20	0.10	2d8/15 L=47	28,28,28	
	s=15,m=3	23.3	0.22	15.6	15.1	0.0	0.04	0.16	0.22	0.13	2d8/15 L=47	28,28,28	
		46.7	0.22	15.6	15.1	0.0	0.04	0.12	0.24	0.16	2d8/15 L=47	28,28,28	
486	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.12	0.16	0.04	2d8/15 L=47	28,18,18	
	s=15,m=3	23.3	0.22	15.6	15.1	0.0	0.04	0.11	0.18	0.08	2d8/15 L=47	28,18,18	
		46.7	0.22	15.6	15.1	0.0	0.04	0.09	0.20	0.11	2d8/15 L=47	28,18,18	
477	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.12	0.15	0.03	2d8/15 L=120	28,28,78	
	s=15,m=3	60.0	0.22	15.6	15.1	0.0	0.04	0.10	0.18	0.08	2d8/15 L=120	28,18,38	
		120.0	0.22	15.6	15.1	0.0	0.04	0.04	0.24	0.17	2d8/15 L=120	70,18,38	
481	ok,ok	0.0	0.22	15.6	15.1	0.0	0.04	0.06	0.17	0.05	2d8/15 L=40	78,18,38	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.04	0.05	0.19	0.08	2d8/15 L=40	78,18,38	
		40.0	0.22	15.6	15.1	0.0	0.05	0.04	0.21	0.11	2d8/15 L=40	78,18,38	
476	ok,ok	0.0	0.22	15.6	15.1	0.0	0.05	0.02	0.16	0.03	2d8/15 L=40	70,18,70	
	s=15,m=3	20.0	0.22	15.6	15.1	0.0	0.05	0.02	0.15	0.02	2d8/15 L=40	78,28,67	
		40.0	0.22	15.6	15.1	0.0	0.05	0.01	0.17	0.05	2d8/15 L=40	60,28,67	
							M T= 54	Z=-25.0	P=21	P=29			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
501	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.05	0.10	0.15	2d8/15 L=130	8,28,8	
	s=16,m=3	179.5	0.42	5.1	5.1	0.0	0.14	0.25	0.04	0.04	2d8/15 L=99	8,75,18	
		359.0	0.42	5.1	5.1	0.0	0.14	0.62	0.19	0.29	2d8/15 L=130	18,28,8	
513	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.62	0.20	0.31	2d8/15 L=55	38,28,8	
	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.27	0.02	3.44e-03	2d8/15 L=260	38,75,8	
		370.0	0.42	5.1	5.1	0.0	0.14	0.61	0.20	0.32	2d8/15 L=55	18,28,18	
512	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.61	0.21	0.32	2d8/15 L=55	38,28,8	
	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.29	0.03	4.85e-04	2d8/15 L=260	2,28,70	
		370.0	0.42	5.1	5.1	0.0	0.14	0.60	0.21	0.32	2d8/15 L=55	18,28,18	
510	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.60	0.22	0.31	2d8/15 L=55	38,38,8	
	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.27	0.05	1.07e-03	2d8/15 L=260	2,38,8	
		370.0	0.42	5.1	5.1	0.0	0.14	0.56	0.22	0.30	2d8/15 L=55	18,38,18	
507	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.56	0.24	0.29	2d8/15 L=55	2,38,8	
	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.24	0.08	5.94e-03	2d8/15 L=260	2,38,8	
		370.0	0.42	5.1	5.1	0.0	0.14	0.43	0.23	0.24	2d8/15 L=55	18,38,28	
505	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.40	0.21	0.23	2d8/15 L=55	8,38,28	
	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.24	0.07	7.30e-03	2d8/15 L=260	28,38,18	
		370.0	0.42	5.1	5.1	0.0	0.14	0.53	0.22	0.27	2d8/15 L=55	18,38,18	
508	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.53	0.19	0.28	2d8/15 L=55	8,28,8	
	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.22	0.03	6.85e-03	2d8/15 L=260	28,18,18	
		370.0	0.42	5.1	5.1	0.0	0.14	0.61	0.19	0.29	2d8/15 L=55	18,18,28	
511	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.61	0.16	0.28	2d8/15 L=55	8,28,8	
	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.27	0.04	0.05	2d8/15 L=260	8,63,8	
		370.0	0.42	5.1	5.1	0.0	0.14	0.15	0.07	0.10	2d8/15 L=55	8,38,28	
							M T= 55	Z=-25.0	P=20	P=29			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
502	ok,ok	0.0	0.42	5.1	5.1	2.3	0.14	0.23	0.36	0.81	2d8/8 L=50	28,46,8	
	s=16,m=3	190.0	0.42	5.1	5.1	2.3	0.14	0.64	0.19	0.52	2d8/15 L=280	8,46,38	
		380.0	0.42	5.1	5.1	2.3	0.14	0.04	0.26	0.94	2d8/15 L=50	63,46,38	
							M T= 56	Z=-25.0	P=17	P=20			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
503	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.04	0.09	0.12	2d8/15 L=55	8,38,38	
	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.23	0.04	0.03	2d8/15 L=260	38,38,18	
		370.0	0.42	5.1	5.1	0.0	0.14	0.50	0.17	0.24	2d8/15 L=55	18,38,18	
506	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.50	0.23	0.26	2d8/15 L=55	8,28,8	



	s=16,m=3	185.0	0.42	5.1	5.1	0.0	0.14	0.23	0.09	4.20e-03	2d8/15 L=260	38,18,18	
		370.0	0.42	5.1	5.1	0.0	0.14	0.63	0.28	0.31	2d8/15 L=55	18,18,18	
509	ok,ok	0.0	0.42	5.1	5.1	2.3	0.14	0.63	0.36	0.84	2d8/10 L=50	8,34,28	
	s=16,m=3	185.0	0.42	5.1	5.1	2.3	0.14	0.59	0.21	0.51	2d8/15 L=270	38,34,28	
		370.0	0.42	5.1	5.1	2.3	0.14	0.19	0.41	0.92	2d8/10 L=50	18,34,28	
							M_T= 57	Z=-25.0	N=1242	N=1761			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
504	ok,ok	0.0	1.30	15.6	5.1	0.0	0.30	0.91	0.66	0.85	2d8/12 L=50	18,18,18	
	s=16,m=3	211.5	0.42	5.1	5.1	0.0	0.14	0.64	0.12	0.09	2d8/15 L=323	18,8,18	
		423.0	0.42	5.1	5.1	0.0	0.14	0.04	0.21	0.24	2d8/15 L=50	78,8,18	
							M_T= 58	Z=-25.0	P=17	P=26			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
514	ok,ok	0.0	0.42	5.1	5.1	0.0	0.14	0.04	0.15	0.16	2d8/15 L=55	63,18,28	
	s=16,m=3	190.0	0.42	5.1	5.1	0.0	0.14	0.39	0.05	5.01e-03	2d8/15 L=270	18,18,66	
		380.0	0.42	5.1	5.1	0.0	0.14	0.14	0.18	0.23	2d8/15 L=55	38,38,38	
							M_T= 43	Z=270.0	P=21	P=29			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
301	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.03	0.09	0.14	2d8/20 L=359	18,18,18	
	s=12,m=3	179.5	0.15	3.1	3.1	2.3	0.05	0.41	4.55e-03	7.34e-03	2d8/20 L=359	28,8,8	
		359.0	0.15	3.1	3.1	2.3	0.05	0.13	0.10	0.15	2d8/20 L=359	8,8,8	
302	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.13	0.09	0.14	2d8/20 L=370	63,28,38	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.31	7.06e-03	0.01	2d8/20 L=370	28,28,28	
		370.0	0.15	3.1	3.1	2.3	0.05	0.28	0.10	0.16	2d8/20 L=370	28,28,28	
303	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.29	0.09	0.15	2d8/20 L=370	64,28,8	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.24	1.22e-03	1.97e-03	2d8/20 L=370	64,28,18	
		370.0	0.15	3.1	3.1	2.3	0.05	0.31	0.09	0.15	2d8/20 L=370	28,28,18	
304	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.36	0.09	0.15	2d8/20 L=370	64,28,8	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.30	1.18e-03	1.86e-03	2d8/20 L=370	64,8,8	
		370.0	0.15	3.1	3.1	2.3	0.05	0.34	0.09	0.15	2d8/20 L=370	64,28,18	
305	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.41	0.08	0.13	2d8/20 L=370	64,28,28	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.29	0.01	0.02	2d8/20 L=370	64,38,38	
		370.0	0.15	3.1	3.1	2.3	0.05	0.59	0.11	0.18	2d8/20 L=370	64,18,38	
306	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.65	0.13	0.16	2d8/20 L=370	64,38,38	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.34	0.04	0.02	2d8/20 L=370	64,38,38	
		370.0	0.15	3.1	3.1	2.3	0.05	0.43	0.10	0.12	2d8/20 L=370	64,28,28	
307	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.29	0.12	0.15	2d8/20 L=370	64,18,18	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.36	0.03	0.01	2d8/20 L=370	64,18,18	
		370.0	0.15	3.1	3.1	2.3	0.05	0.19	0.11	0.13	2d8/20 L=370	64,8,8	
308	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.10	0.12	0.15	2d8/20 L=370	64,28,8	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.43	0.03	5.87e-03	2d8/20 L=370	38,28,8	
		370.0	0.15	3.1	3.1	2.3	0.05	0.05	0.11	0.13	2d8/20 L=370	64,38,38	
							M_T= 44	Z=270.0	P=17	P=20			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
309	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.25	0.10	0.13	2d8/20 L=442	63,28,28	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.51	0.03	0.01	2d8/20 L=442	63,38,38	
		370.0	0.15	3.1	3.1	2.3	0.05	0.36	0.12	0.15	2d8/20 L=442	63,38,38	
310	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.24	0.08	0.09	2d8/20 L=442	63,18,18	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.13	0.06	0.05	2d8/20 L=442	63,38,8	
		370.0	0.15	3.1	3.1	2.3	0.05	0.86	0.14	0.19	2d8/20 L=442	38,38,8	
311	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.87	0.11	0.14	2d8/20 L=442	38,38,38	
	s=12,m=3	185.0	0.15	3.1	3.1	2.3	0.05	0.38	0.02	9.45e-04	2d8/20 L=442	38,38,64	
		370.0	0.15	3.1	3.1	2.3	0.05	0.87	0.11	0.14	2d8/20 L=442	28,28,28	
515	ok,ok	0.0	0.15	3.1	3.1	2.3	0.05	0.88	0.15	0.25	2d8/20 L=175	2,38,38	
	s=12,m=3	95.0	0.15	3.1	3.1	2.3	0.05	0.22	0.08	0.12	2d8/20 L=175	2,38,38	
		190.0	0.15	3.1	3.1	2.3	0.05	6.98e-03	6.94e-04	1.11e-03	2d8/20 L=41	63,78,78	
							M_T= 45	Z=270.0	N=1276	N=1762			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
312	ok,ok	0.0	0.19	4.0	3.1	0.0	0.05	0.02	0.07	0.03	2d8/15 L=71	67,18,11	
	s=12,m=3	211.5	0.19	4.0	3.1	0.0	0.05	0.14	0.05	0.0	2d8/20 L=280	33,58,24	
		423.0	0.19	4.0	3.1	0.0	0.05	0.02	0.07	0.03	2d8/15 L=71	67,18,24	
							M_T= 59	Z=270.0	P=17	P=26			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
544	ok,ok	0.0	0.89	4.0	3.1	0.0	0.30	0.13	0.08	0.03	2d8/8 L=50	28,28,18	
	s=18,m=3	190.0	0.89	4.0	3.1	0.0	0.33	0.17	0.05	6.96e-03	2d8/8 L=280	27,28,18	
		380.0	0.89	4.0	3.1	0.0	0.33	0.11	0.06	0.02	2d8/8 L=50	18,28,11	
							M_T= 60	Z=270.0	P=20	P=29			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
545	ok,ok	0.0	0.89	4.0	3.1	0.0	0.33	0.11	0.16	0.02	2d8/8 L=50	18,38,11	
	s=18,m=3	190.0	0.89	4.0	3.1	0.0	0.33	0.17	0.15	6.96e-03	2d8/8 L=280	1,38,18	
		380.0	0.89	4.0	3.1	0.0	0.30	0.13	0.18	0.03	2d8/8 L=50	38,38,18	
							M_T= 21	Z=480.0	P=1	P=16			



Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
51	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.03	0.35	0.50	2d12/25 L=107	56,8,8
	s=1,m=3	68.7	0.43	63.3	18.8	13.6	0.09	0.11	0.34	0.49	2d12/25 L=107	28,8,8
		137.5	0.43	63.3	18.8	13.6	0.09	0.22	0.33	0.47	2d12/25 L=107	28,8,8
59	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.22	0.30	0.43	2d12/25 L=125	28,8,2
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.31	0.29	0.41	2d12/25 L=125	28,8,2
		125.0	0.43	63.3	18.8	13.6	0.09	0.39	0.28	0.40	2d12/25 L=125	28,8,2
69	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.39	0.25	0.36	2d12/25 L=125	28,8,2
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.47	0.24	0.35	2d12/25 L=125	28,8,2
		125.0	0.43	63.3	18.8	13.6	0.09	0.54	0.23	0.33	2d12/25 L=125	28,8,2
75	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.54	0.20	0.29	2d12/25 L=125	28,8,8
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.59	0.19	0.28	2d12/25 L=125	28,8,8
		125.0	0.43	63.3	18.8	13.6	0.09	0.65	0.18	0.26	2d12/25 L=125	28,8,8
80	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.65	0.15	0.22	2d12/25 L=125	28,8,8
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.69	0.14	0.21	2d12/25 L=125	28,8,8
		125.0	0.43	63.3	18.8	13.6	0.09	0.74	0.14	0.20	2d12/25 L=125	28,8,8
83	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.74	0.11	0.15	2d12/25 L=125	28,8,8
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.77	0.10	0.14	2d12/25 L=125	28,8,8
		125.0	0.43	63.3	18.8	13.6	0.09	0.79	0.09	0.13	2d12/25 L=125	28,8,8
87	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.79	0.06	0.08	2d12/25 L=125	28,8,8
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.81	0.05	0.07	2d12/25 L=125	28,8,8
		125.0	0.43	63.3	18.8	13.6	0.09	0.82	0.04	0.06	2d12/25 L=125	28,8,8
91	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.82	0.02	0.01	2d12/25 L=125	28,55,8
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.82	9.98e-03	1.77e-03	2d12/25 L=125	28,55,47
		125.0	0.43	63.3	18.8	13.6	0.09	0.82	0.01	0.01	2d12/25 L=125	28,58,23
94	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.82	0.04	0.06	2d12/25 L=125	28,8,18
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.81	0.05	0.07	2d12/25 L=125	28,8,18
		125.0	0.43	63.3	18.8	13.6	0.09	0.79	0.06	0.08	2d12/25 L=125	28,8,18
96	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.79	0.09	0.13	2d12/25 L=125	28,8,18
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.77	0.10	0.14	2d12/25 L=125	28,8,18
		125.0	0.43	63.3	18.8	13.6	0.09	0.74	0.11	0.15	2d12/25 L=125	28,8,18
98	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.74	0.14	0.20	2d12/25 L=125	28,8,18
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.69	0.14	0.21	2d12/25 L=125	28,8,18
		125.0	0.43	63.3	18.8	13.6	0.09	0.65	0.15	0.22	2d12/25 L=125	28,8,18
54	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.65	0.18	0.26	2d12/25 L=125	28,8,18
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.59	0.19	0.28	2d12/25 L=125	28,8,18
		125.0	0.43	63.3	18.8	13.6	0.09	0.54	0.20	0.29	2d12/25 L=125	28,8,18
63	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.54	0.23	0.33	2d12/25 L=125	28,8,8
	s=1,m=3	62.5	0.85	126.7	37.7	13.6	0.18	0.24	0.24	0.35	2d12/25 L=125	8,8,8
		125.0	0.85	126.7	37.7	13.6	0.18	0.20	0.25	0.36	2d12/25 L=125	8,8,8
71	ok,ok	0.0	0.85	126.7	37.7	13.6	0.18	0.20	0.28	0.40	2d12/25 L=125	8,8,8
	s=1,m=3	62.5	0.43	63.3	18.8	13.6	0.09	0.31	0.29	0.41	2d12/25 L=125	28,8,8
		125.0	0.43	63.3	18.8	13.6	0.09	0.22	0.30	0.43	2d12/25 L=125	28,8,8
77	ok,ok	0.0	0.43	63.3	18.8	13.6	0.09	0.22	0.33	0.47	2d12/25 L=107	28,8,8
	s=1,m=3	68.8	0.43	63.3	18.8	13.6	0.09	0.11	0.34	0.49	2d12/25 L=107	28,8,8
		137.5	0.43	63.3	18.8	13.6	0.09	0.03	0.35	0.50	2d12/25 L=107	58,8,8
M_T= 23 Z=360.0 N=538 N=840												
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
53	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.06	0.22	0.23	2d8/20 L=126	73,28,8
	s=2,m=3	68.8	0.27	4.0	3.1	0.0	0.08	0.44	0.21	0.21	2d8/20 L=126	28,28,8
		137.5	0.27	4.0	3.1	0.0	0.08	0.84	0.20	0.19	2d8/20 L=27	28,28,8
61	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.84	0.10	7.27e-03	2d8/20 L=112	28,73,27
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.84	0.10	0.01	2d8/20 L=112	28,73,8
		125.0	0.27	4.0	3.1	0.0	0.08	0.80	0.11	0.03	2d8/20 L=25	28,73,8
56	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.80	0.21	0.21	2d8/20 L=125	28,28,8
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.42	0.22	0.22	2d8/20 L=125	28,28,8
		125.0	0.27	4.0	3.1	0.0	0.08	0.07	0.23	0.24	2d8/20 L=125	73,28,8
158	ok,ok	0.0	0.27	4.0	3.1	0.0	0.07	0.18	0.18	0.23	2d8/20 L=125	73,38,28
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.39	0.17	0.21	2d8/20 L=125	28,38,28
		125.0	0.27	4.0	3.1	0.0	0.08	0.75	0.16	0.20	2d8/20 L=125	28,38,28
167	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.75	0.06	0.01	2d8/20 L=112	28,74,38
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.76	0.06	7.17e-04	2d8/20 L=112	28,74,64
		125.0	0.27	4.0	3.1	0.0	0.08	0.75	0.07	0.01	2d8/20 L=25	28,74,33
168	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.75	0.16	0.20	2d8/20 L=125	28,38,28
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.39	0.17	0.21	2d8/20 L=125	28,38,28
		125.0	0.27	4.0	3.1	0.0	0.08	0.18	0.18	0.23	2d8/20 L=125	73,38,28
M_T= 24 Z=360.0 N=673 N=871												
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
159	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.17	0.23	0.23	2d8/20 L=125	71,38,28
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.39	0.17	0.21	2d8/20 L=125	28,38,28
		125.0	0.27	4.0	3.1	0.0	0.08	0.76	0.16	0.20	2d8/20 L=125	28,38,28



169	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.76	0.07	0.01	2d8/20 L=125	28,72,33	
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.77	0.06	7.83e-04	2d8/20 L=125	28,72,74	
		125.0	0.27	4.0	3.1	0.0	0.08	0.76	0.07	0.01	2d8/20 L=125	28,72,38	
170	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.76	0.16	0.20	2d8/20 L=125	28,38,28	
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.39	0.17	0.21	2d8/20 L=125	28,38,28	
		125.0	0.27	4.0	3.1	0.0	0.07	0.17	0.18	0.23	2d8/20 L=125	71,38,28	
160	ok,ok	0.0	0.27	4.0	3.1	0.0	0.07	0.07	0.23	0.24	2d8/20 L=125	63,28,18	
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.42	0.22	0.22	2d8/20 L=125	28,28,18	
		125.0	0.27	4.0	3.1	0.0	0.08	0.81	0.21	0.21	2d8/20 L=125	28,28,18	
57	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.81	0.11	0.03	2d8/20 L=125	28,71,18	
	s=2,m=3	62.5	0.27	4.0	3.1	0.0	0.08	0.84	0.10	0.01	2d8/20 L=125	28,71,18	
		125.0	0.27	4.0	3.1	0.0	0.08	0.84	0.10	7.27e-03	2d8/20 L=125	28,71,33	
65	ok,ok	0.0	0.27	4.0	3.1	0.0	0.08	0.84	0.20	0.19	2d8/20 L=137	28,28,18	
	s=2,m=3	68.8	0.27	4.0	3.1	0.0	0.08	0.44	0.21	0.21	2d8/20 L=137	28,28,18	
		137.5	0.27	4.0	3.1	0.0	0.08	0.07	0.22	0.23	2d8/20 L=137	63,28,18	
							M_T= 36	Z=340.0	N=809	N=1733			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
174	ok,ok	0.0	0.67	6.0	5.1	0.0	0.23	0.02	4.13e-03	9.34e-04	2d8/12 L=42	73,74,53	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.22	0.04	0.04	0.07	2d8/12 L=42	73,38,28	
		42.2	0.67	6.0	5.1	0.0	0.22	0.11	0.08	0.13	2d8/12 L=42	28,38,28	
178	ok,ok	0.0	0.67	6.0	5.1	0.0	0.22	6.38e-03	0.04	0.07	2d8/12 L=42	73,38,28	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.23	0.02	1.78e-03	1.96e-06	2d8/12 L=42	73,44,28	
		42.2	0.67	6.0	5.1	0.0	0.23	0.01	0.04	0.07	2d8/12 L=42	73,38,38	
179	ok,ok	0.0	0.67	6.0	5.1	0.0	0.22	0.06	0.04	0.07	2d8/12 L=42	28,38,28	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.23	0.05	1.61e-03	1.43e-06	2d8/12 L=42	77,44,28	
		42.2	0.67	6.0	5.1	0.0	0.23	0.07	0.04	0.07	2d8/12 L=42	28,38,38	
							M_T= 37	Z=340.0	N=840	N=1734			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
175	ok,ok	0.0	0.38	3.4	3.4	0.0	0.18	0.04	1.92e-03	1.09e-03	2d8/12 L=42	73,53,73	
	s=9,m=3	21.1	0.38	3.4	3.4	0.0	0.18	0.07	0.04	0.06	2d8/12 L=42	73,28,38	
		42.2	0.38	3.4	3.4	0.0	0.18	0.16	0.08	0.13	2d8/12 L=42	73,28,38	
181	ok,ok	0.0	0.38	3.4	3.4	0.0	0.18	0.01	0.04	0.06	2d8/12 L=42	71,8,28	
	s=9,m=3	21.1	0.38	3.4	3.4	0.0	0.18	0.05	1.32e-03	1.55e-06	2d8/12 L=42	71,72,34	
		42.2	0.38	3.4	3.4	0.0	0.18	0.03	0.04	0.06	2d8/12 L=42	71,8,38	
180	ok,ok	0.0	0.38	3.4	3.4	0.0	0.18	0.02	0.04	0.06	2d8/12 L=42	18,18,28	
	s=9,m=3	21.1	0.38	3.4	3.4	0.0	0.18	0.05	3.88e-03	1.02e-06	2d8/12 L=42	64,75,34	
		42.2	0.38	3.4	3.4	0.0	0.18	0.04	0.04	0.06	2d8/12 L=42	18,18,38	
							M_T= 38	Z=340.0	N=871	N=1735			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
176	ok,ok	0.0	0.67	6.0	5.1	0.0	0.23	0.02	2.09e-03	1.13e-03	2d8/12 L=42	71,52,65	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.22	0.05	0.04	0.06	2d8/12 L=42	71,28,38	
		42.2	0.67	6.0	5.1	0.0	0.22	0.11	0.08	0.13	2d8/12 L=42	71,28,38	
183	ok,ok	0.0	0.67	6.0	5.1	0.0	0.23	7.95e-03	0.04	0.06	2d8/12 L=42	73,28,28	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.23	0.03	1.58e-03	1.58e-06	2d8/12 L=42	73,72,34	
		42.2	0.67	6.0	5.1	0.0	0.23	0.02	0.04	0.06	2d8/12 L=42	73,28,38	
182	ok,ok	0.0	0.67	6.0	5.1	0.0	0.23	0.01	0.04	0.06	2d8/12 L=42	8,8,28	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.23	0.03	3.90e-03	1.03e-06	2d8/12 L=42	74,77,34	
		42.2	0.67	6.0	5.1	0.0	0.22	0.02	0.04	0.06	2d8/12 L=42	8,8,38	
							M_T= 39	Z=340.0	N=902	N=1736			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
177	ok,ok	0.0	0.67	6.0	5.1	0.0	0.23	0.02	4.39e-03	1.05e-03	2d8/12 L=42	67,72,65	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.22	0.04	0.04	0.07	2d8/12 L=42	67,38,38	
		42.2	0.67	6.0	5.1	0.0	0.22	0.11	0.08	0.13	2d8/12 L=42	28,38,38	
185	ok,ok	0.0	0.67	6.0	5.1	0.0	0.22	6.91e-03	0.04	0.07	2d8/12 L=42	67,38,28	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.23	0.03	2.05e-03	2.01e-06	2d8/12 L=42	67,44,28	
		42.2	0.67	6.0	5.1	0.0	0.23	0.02	0.04	0.07	2d8/12 L=42	67,38,38	
184	ok,ok	0.0	0.67	6.0	5.1	0.0	0.22	0.06	0.04	0.07	2d8/12 L=42	28,38,28	
	s=9,m=3	21.1	0.67	6.0	5.1	0.0	0.23	0.05	1.85e-03	1.46e-06	2d8/12 L=42	55,44,28	
		42.2	0.67	6.0	5.1	0.0	0.22	0.07	0.04	0.07	2d8/12 L=42	28,38,38	
Trave			%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc			
			1.30	126.67	37.70	13.57	0.33	0.91	0.66	0.94			

VERIFICHE ELEMENTI PARETE E/O GUSCIO IN C.A.

Per le pareti in c.a., in ottemperanza al cap. 7 del DM 17-01-18, viene effettuata una doppia progettazione: sia come *Singolo Elemento* sia come *Parete Sismica* o *Parete Debolmente Armata*.

Per la progettazione come *Singolo Elemento* di ogni elemento vengono riportati il codice dello stato di verifica con le sigle **Ok e NV**, il rapporto x/d , la verifica per sollecitazioni ultime (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti), gli sforzi membranali e flessionali, il quantitativo di armatura nella direzione principale e secondaria sia inferiore che superiore e il quantitativo di armatura a taglio.

Per la progettazione come *Parete Sismica* o *Parete Debolmente Armata* vengono riportate invece le caratteristiche geometriche della parete e delle zone dissipative (quest'ultime solo nel caso di parete sismica), i coefficienti di verifica a compressione assiale, pressoflessione e sollecitazioni taglianti.

Inoltre vengono riportate per ogni quota significativa l'armatura principale e secondaria, l'armatura in zona confinata (solo per parete sismica) e non confinata, l'armatura concentrata all'estremità (per pareti debolmente armate), lo sforzo assiale aggiuntivo per q superiore a 2 e i valori di inviluppo di taglio e momento. Per le pareti debolmente armate viene riportato anche lo stato di verifica relativo alla snellezza.

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

La progettazione nel caso dei gusci viene effettuata una progettazione come *Singolo Elemento*, riportando in tabella il rapporto x/d , la verifica per sollecitazioni ultime, (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti) di ogni elemento.

Per ogni elemento, viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso. 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.

Nel caso dei gusci viene effettuata, inoltre, la verifica a punzonamento, riportando in tabella il codice dello stato di verifica, il coefficiente di verifica per piastre prive di armature a taglio lungo il perimetro resistente e lungo il perimetro del pilastro, coefficiente di incremento dovuto ai momenti flettenti, fattore di amplificazione per le fondazioni, il fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta, il quantitativo di armatura a punzonamento, il numero di serie di armature, il numero di braccia di armatura ed il riferimento alla combinazione più gravosa.

Simbologia adottata nelle tabelle di verifica

Per gli elementi con progettazione di tipo "*Singolo Elemento* ..." è presente una tabella con i simboli di seguito descritti:

Macro Guscio	Numero del macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
Macro Setto	Numero del macroelemento di tipo setto (elementi verticali contigui ed analoghi per proprietà)
Spessore	Spessore della parete
Id Materiale	Codice del materiale assegnato all'elemento
Id Criterio	Codice del criterio di progetto assegnato all'elemento

Progettazione	Sigla tipo di Elemento: - Singolo Elemento; - Singolo Elemento FONDAZIONE; - Singolo Elemento NON DISSIPATIVO
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Per gli elementi con progettazione di tipo “*Parete Sismica*” e “*Parete Debolmente Armata*” è presente una tabella con i simboli di seguito descritti:

Parete	Numero della PARETE SISMICA
Parete PDA	Numero della PARETE DEBOLMENTE ARMATA
H totale	Altezza complessiva della parete
Spessore	Spessore della parete
H critica	Altezza come da punto 7.4.4.5.1 per traslazione momento (solo in Parete Sismica)
H critica V	Altezza della zona dissipativa (solo in Parete Sismica)
L totale	Larghezza di base della parete
L confinata	Lunghezza della zona dissipativa (solo in Parete Sismica)
Verif. N	Verifica di cui al punto 7.4.4.5.1 compressione semplice
Verif. N-M	Verifica di cui al punto 7.4.4.5.1 pressoflessione
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. 7.4.4
Verif. V	Verifica di cui al punto 7.4.4.5.1 taglio (compressione cls, trazione acciaio, scorrimento in zona critica) (solo in Parete Sismica)
Verifica Snellezza	Verifica di cui al punto 7.4.4.5.1 limitazione compressione per prevenire l'instabilità (solo in Parete Debolmente Armata)
Prog. composta	Sigla per la progettazione composta

Sia per le verifiche degli elementi con progettazione di tipo “*Singolo Elemento ...*” e “*Parete ...*” è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
V N/M	Verifica delle sollecitazioni Normali (momento e sforzo normale)
Ver. rid	Rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd)
Af pr+	quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr-	quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec+	quantità di armatura richiesta in direzione secondaria relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	quantità di armatura richiesta in direzione secondaria relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Nz No Nzo	Sforzi membranali per pareti e/o setti verticali
Mz Mo Mzo	Sforzi flessionali per pareti e/o setti verticali
Nx Ny Nxy	Sforzi membranali per gusci orizzontali
Mx My Mxy	Sforzi flessionali per gusci orizzontali

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
Max tau	Tensione tangenziale Massima
Ver V pr	Verifica a taglio nella direzione principale lato calcestruzzo
Ver V sec	Verifica a taglio nella direzione secondaria lato calcestruzzo

Af V pr	Armatura nella direzione principale
V pr-	Verifica dell'armatura nella direzione principale
Af V sec	Armatura nella direzione secondaria
V sec-	Verifica dell'armatura nella direzione secondaria

Per le verifiche degli elementi con progettazione “*Parete Sismica o Parete Debolmente Armata*”, oltre alla tabella con le verifiche per gli elementi con progettazione “*Singolo Elemento ...*”, è presente una tabella con i simboli di seguito descritti:

Quota	Ascissa verticale di riferimento
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. V acc(7)	Rapporto tra azione di calcolo e resistenza a taglio-trazione per alfaS minore di 2 secondo paragrafo 7.4.4.5.1
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
N invil M invil	Inviluppo del Momento e Sforzo Normale come al punto 7.4.4.5.1 (informativo) (solo in Parete Sismica)

Quota	Ascissa verticale di riferimento
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 attinge il massimo valore
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

Quota	Ascissa verticale di riferimento
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 [7.4.20]
Vid	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]
A s.i.	Somma delle aree di armature
Incli.	Angolo di inclinazione delle armature
Dist.	Distanza alla base tra le armature inclinate

Quota	Ascissa verticale di riferimento
V[7.4.16]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.16)
N M V	Sollecitazioni di calcolo della condizione più gravosa
Alfas	Rapporto di Taglio
Vrd,c	Resistenza a taglio degli elementi non armati
VRd,s	Resistenza a taglio nei confronti dello scorrimento
V[7.4.17]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.17)
roH	Rapporto tra l'armatura orizzontale e l'area della sezione relativa di calcestruzzo
roV	Rapporto tra l'armatura verticale e l'area della sezione relativa di calcestruzzo
roN	Sforzo normale adimensionalizzato Ned/(bw fyd)

Per la verifica a *Punzonamento* è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
V. 6.47	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro resistente U1
V. 6.53	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro del pilastro U0
Beta	Fattore di incremento dovuto ai momenti flettenti
f. a fon	fattore di amplificazione per le fondazioni (solo per gusci di fondazione)
f. Uout	fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta
Aw tot	Quantitativo di armatura per la verifica di piastre munite di armatura (formula 6.52 dell'EC2)
Asw,min	Quantitativo minimo di armatura previsto dai dettagli costruttivi (formula 9.11 dell'EC2)
n. x serie	Numero di serie di armature
n.ser 0(R)	Numero di braccia delle armature in direzione 0 (o numero di braccia radiale)
n.ser 90	Numero di braccia delle armature in direzione 90 (solo se armatura cruciforme)
Rif. cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
1	20.00	3	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	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	0.12	0.1	1.23e-02	5.7	5.7	3.9	3.9	-35.3	-4.7	-3.1	222.2	0.9	17.4
3	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-310.4	-76.0	-90.9	-305.9	-165.3	12.5
5	ok	0.12	9.57e-02	1.61e-02	5.7	5.7	3.9	3.9	-45.6	-0.8	-6.5	264.5	29.5	36.7
11	ok	0.12	0.1	1.23e-02	5.7	5.7	3.9	3.9	28.8	-3.5	-13.4	-31.7	-6.4	53.1
13	ok	0.12	0.2	2.80e-03	5.7	5.7	3.9	3.9	-3.8	4.0	4.1	-0.5	0.6	0.5



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
15	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-315.7	-51.9	-90.4	-248.0	-98.3	8.2
16	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-292.5	-74.2	-64.5	-275.4	-79.5	57.4
17	ok	0.12	0.1	9.67e-02	5.7	5.7	3.9	3.9	-258.1	-56.4	-42.1	-273.8	-108.0	61.5
18	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-331.9	-6.2	-67.7	-208.5	-82.6	3.3
19	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-270.0	-51.5	10.5	-222.3	-76.3	30.9
20	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-347.5	57.0	-53.9	-175.9	-100.2	6.3
21	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-343.5	52.1	-43.8	-155.3	-82.2	25.5
22	ok	0.12	0.4	0.1	5.7	5.7	3.9	3.9	-367.0	86.9	-36.8	-139.4	-102.2	13.7
23	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-349.3	53.1	-22.6	-120.2	-76.6	42.8
24	ok	0.12	0.5	0.1	5.7	5.7	3.9	3.9	-394.1	60.8	-0.9	-100.6	-86.8	19.6
25	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-361.5	17.1	30.3	-90.2	-65.7	52.1
26	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-475.2	-37.5	11.6	-104.1	-272.0	39.6
27	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-379.2	-39.4	90.7	-85.7	-160.6	13.2
28	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-649.1	-162.1	0.6	-155.9	-541.7	126.3
29	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-337.5	-201.4	96.0	-60.9	-145.7	17.7
30	ok	0.12	0.6	0.4	5.7	5.7	3.9	3.9	-61.9	-887.1	-553.9	-43.9	-536.5	104.3
31	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-483.1	-292.2	111.0	-21.6	-125.6	16.9
32	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-453.1	-60.1	104.1	-414.9	-42.6	119.0
33	ok	0.12	0.1	5.70e-02	5.7	5.7	3.9	3.9	-140.7	-69.6	47.5	-204.7	-74.0	50.9
34	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-545.8	-37.5	-128.7	-271.7	-17.7	-85.1
35	ok	0.12	0.3	9.17e-02	5.7	5.7	3.9	3.9	-240.9	47.8	-77.4	-105.8	-39.7	63.8
36	ok	0.12	0.1	8.87e-02	5.7	5.7	3.9	3.9	-256.4	1.1	-7.6	-101.1	-59.3	40.0
37	ok	0.12	0.1	9.99e-02	5.7	5.7	3.9	3.9	-277.6	-38.6	51.5	-84.6	-101.2	1.4
38	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-288.9	-97.0	89.5	-64.5	-94.8	11.4
39	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-323.7	-176.4	106.4	-39.6	-86.2	20.4
40	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-311.3	-229.6	83.8	-12.3	-76.5	22.0
41	ok	0.12	0.3	1.71e-03	5.7	5.7	3.9	3.9	89.4	49.8	-57.5	69.8	-83.4	-18.1
42	ok	0.12	0.1	5.36e-02	5.7	5.7	3.9	3.9	-20.0	-121.7	60.9	-150.3	-69.1	42.5
43	ok	0.12	0.7	0.0	5.7	5.7	3.9	3.9	109.0	206.8	72.7	29.7	-69.8	50.2
44	ok	0.12	0.1	4.90e-02	5.7	5.7	3.9	3.9	-35.0	-109.0	53.8	-82.6	-62.5	42.5
45	ok	0.12	0.1	6.32e-02	5.7	5.7	3.9	3.9	-161.7	-53.5	38.8	-78.4	-38.4	74.9
46	ok	0.12	0.1	8.11e-02	5.7	5.7	3.9	3.9	-198.0	-76.2	72.5	-62.3	-53.6	2.1
47	ok	0.12	0.1	9.16e-02	5.7	5.7	3.9	3.9	-204.3	-116.1	93.1	-43.3	-48.9	12.7
48	ok	0.12	0.1	9.63e-02	5.7	5.7	3.9	3.9	-197.2	-162.6	93.1	-22.3	-42.7	22.1
49	ok	0.12	0.1	9.35e-02	5.7	5.7	3.9	3.9	-179.5	-193.4	78.5	-3.1	-35.6	26.9
50	ok	0.12	0.2	8.64e-02	5.7	5.7	3.9	3.9	-183.9	53.6	-123.3	-322.1	-0.3	-93.8
51	ok	0.12	9.15e-02	2.48e-02	5.7	5.7	3.9	3.9	-29.9	-52.7	-19.4	-131.2	-36.6	-33.0
52	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-613.1	-126.0	193.3	-306.3	-34.8	112.5
53	ok	0.12	0.3	7.55e-02	5.7	5.7	3.9	3.9	-109.9	22.7	129.2	-80.1	-43.6	43.6
54	ok	0.12	0.2	7.14e-02	5.7	5.7	3.9	3.9	-139.7	-56.5	93.6	-60.4	-23.4	-8.7
55	ok	0.12	0.1	7.46e-02	5.7	5.7	3.9	3.9	-150.8	-86.0	89.9	-42.0	-19.9	2.3
56	ok	0.12	0.1	7.86e-02	5.7	5.7	3.9	3.9	-146.7	-119.4	90.2	-23.8	-15.1	13.9
57	ok	0.12	0.1	7.96e-02	5.7	5.7	3.9	3.9	-134.8	-150.2	82.9	-6.5	-9.7	23.7
58	ok	0.12	0.1	7.55e-02	5.7	5.7	3.9	3.9	-119.6	-168.8	64.2	8.1	-3.7	30.5
59	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-196.5	-40.0	76.6	-234.5	-7.7	-17.9
60	ok	0.12	0.1	4.44e-02	5.7	5.7	3.9	3.9	-116.4	-21.0	-5.2	-150.7	-32.5	-38.9
61	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-247.5	-122.1	101.8	-218.0	-21.7	44.8
62	ok	0.12	0.1	8.98e-02	5.7	5.7	3.9	3.9	-237.4	8.4	79.0	-110.8	-49.1	53.3
63	ok	0.12	0.1	6.65e-02	5.7	5.7	3.9	3.9	-143.0	-48.0	82.9	-44.2	-4.5	-6.8
64	ok	0.12	0.1	6.61e-02	5.7	5.7	3.9	3.9	-121.0	-85.0	83.9	-22.6	2.4	4.2
65	ok	0.12	0.1	6.78e-02	5.7	5.7	3.9	3.9	-107.2	-114.8	81.4	-5.6	9.4	15.9
66	ok	0.12	0.1	6.71e-02	5.7	5.7	3.9	3.9	-93.7	-136.3	71.3	9.0	15.3	25.8
67	ok	0.12	0.1	6.24e-02	5.7	5.7	3.9	3.9	-80.3	-145.8	52.8	20.2	20.7	33.6
68	ok	0.12	0.2	9.46e-02	5.7	5.7	3.9	3.9	-139.3	-137.0	71.9	-205.3	-9.0	-1.5
69	ok	0.12	0.1	6.64e-02	5.7	5.7	3.9	3.9	-155.5	-28.2	39.0	-143.0	-31.9	-25.4
70	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-192.2	7.3	54.7	-186.1	-16.8	10.9
71	ok	0.12	8.86e-02	4.59e-02	5.7	5.7	3.9	3.9	-129.2	-29.9	13.8	-105.7	-39.6	25.8
72	ok	0.12	9.86e-02	4.93e-02	5.7	5.7	3.9	3.9	-101.1	-66.0	55.1	-26.2	8.1	-1.8
73	ok	0.12	0.1	5.63e-02	5.7	5.7	3.9	3.9	-88.2	-89.8	71.0	-5.3	19.6	8.6
74	ok	0.12	0.1	5.87e-02	5.7	5.7	3.9	3.9	-76.8	-109.2	71.1	10.8	27.9	19.1
75	ok	0.12	0.1	5.72e-02	5.7	5.7	3.9	3.9	-62.3	-121.7	58.2	23.4	34.2	28.5
76	ok	0.12	0.1	5.21e-02	5.7	5.7	3.9	3.9	-50.9	-124.7	41.0	32.1	39.0	36.3
77	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-467.8	-203.2	168.8	-253.0	-9.9	53.9
78	ok	0.12	0.3	7.53e-02	5.7	5.7	3.9	3.9	-132.3	-28.2	97.4	-106.5	-32.4	-23.2
79	ok	0.12	0.4	9.55e-03	5.7	5.7	3.9	3.9	22.9	140.9	-34.0	-213.4	-13.9	-53.7
80	ok	0.12	0.1	4.03e-02	5.7	5.7	3.9	3.9	-16.2	-65.7	22.2	-57.5	-37.6	16.2
81	ok	0.12	0.1	4.88e-02	5.7	5.7	3.9	3.9	-51.7	-94.3	61.0	-11.2	26.8	3.0
82	ok	0.12	0.1	5.23e-02	5.7	5.7	3.9	3.9	-59.4	-95.4	68.2	9.7	35.0	13.0
83	ok	0.12	0.1	5.22e-02	5.7	5.7	3.9	3.9	-51.9	-102.3	61.1	25.2	42.5	22.6
84	ok	0.12	0.1	4.92e-02	5.7	5.7	3.9	3.9	-42.8	-107.7	50.0	36.2	48.5	31.3



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
85	ok	0.12	0.1	4.37e-02	5.7	5.7	3.9	3.9	-33.1	-106.1	33.9	43.0	52.9	38.5
86	ok	0.12	0.3	1.02e-02	5.7	5.7	3.9	3.9	82.6	61.8	-58.9	30.3	-50.4	-30.6
87	ok	0.12	0.2	6.98e-02	5.7	5.7	3.9	3.9	4.3	-28.4	85.4	-73.4	-36.4	-40.5
88	ok	0.12	0.3	1.00e-02	5.7	5.7	3.9	3.9	-5.6	-34.4	-6.2	31.6	-21.1	61.4
89	ok	0.12	0.2	7.63e-02	5.7	5.7	3.9	3.9	-24.4	-144.0	115.9	-11.4	35.7	-6.0
90	ok	0.12	0.1	5.62e-02	5.7	5.7	3.9	3.9	-47.3	-95.2	84.1	4.9	40.6	5.8
91	ok	0.12	0.1	5.08e-02	5.7	5.7	3.9	3.9	-45.1	-89.8	67.6	24.1	46.8	16.5
92	ok	0.12	0.1	4.69e-02	5.7	5.7	3.9	3.9	-40.0	-92.3	56.5	38.3	53.5	26.1
93	ok	0.12	9.93e-02	4.22e-02	5.7	5.7	3.9	3.9	-31.1	-93.4	43.1	47.6	59.3	34.2
94	ok	0.12	0.1	3.63e-02	5.7	5.7	3.9	3.9	-21.7	-89.2	27.6	52.2	63.4	40.6
95	ok	0.12	0.5	2.85e-03	5.7	5.7	3.9	3.9	9.4	71.5	21.1	-354.2	34.5	-177.5
96	ok	0.12	0.2	2.97e-02	5.7	5.7	3.9	3.9	-2.9	-4.1	39.1	-74.0	-33.1	-47.5
97	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-410.2	-205.5	144.6	-137.6	-11.8	55.1
98	ok	0.12	0.1	6.75e-02	5.7	5.7	3.9	3.9	-97.8	-51.5	94.2	-34.9	-32.8	33.2
99	ok	0.12	9.71e-02	5.26e-02	5.7	5.7	3.9	3.9	-65.7	-75.4	77.7	20.7	44.7	8.5
100	ok	0.12	9.53e-02	4.60e-02	5.7	5.7	3.9	3.9	-49.7	-76.7	62.5	37.8	53.0	19.9
101	ok	0.12	9.37e-02	4.07e-02	5.7	5.7	3.9	3.9	-36.6	-79.2	49.1	50.3	60.5	29.8
102	ok	0.12	9.67e-02	3.54e-02	5.7	5.7	3.9	3.9	-25.0	-78.9	35.5	57.5	66.8	37.6
103	ok	0.12	0.1	2.97e-02	5.7	5.7	3.9	3.9	-14.9	-73.8	21.2	59.7	71.4	43.2
104	ok	0.12	0.3	8.89e-02	5.7	5.7	3.9	3.9	-93.4	15.6	100.5	-107.5	-16.6	-24.7
105	ok	0.12	0.2	3.30e-02	5.7	5.7	3.9	3.9	-53.9	9.4	28.2	-81.3	-31.8	-50.3
106	ok	0.12	0.3	7.67e-02	5.7	5.7	3.9	3.9	-98.2	-119.0	108.6	-92.6	-17.8	16.0
107	ok	0.12	8.91e-02	5.05e-02	5.7	5.7	3.9	3.9	-124.2	-88.7	34.2	-54.0	-30.8	29.3
108	ok	0.12	8.63e-02	4.36e-02	5.7	5.7	3.9	3.9	-76.0	-62.3	54.6	-36.2	-29.8	27.7
109	ok	0.12	8.59e-02	3.84e-02	5.7	5.7	3.9	3.9	-53.1	-65.3	49.3	50.9	54.6	25.3
110	ok	0.12	8.52e-02	3.37e-02	5.7	5.7	3.9	3.9	-36.4	-67.4	37.8	61.4	64.0	34.6
111	ok	0.12	8.79e-02	2.89e-02	5.7	5.7	3.9	3.9	-20.8	-66.0	26.6	66.2	71.2	42.0
112	ok	0.12	0.1	2.38e-02	5.7	5.7	3.9	3.9	-10.4	-60.4	14.6	65.5	76.7	46.9
113	ok	0.12	0.2	5.41e-02	5.7	5.7	3.9	3.9	-77.4	-28.5	90.9	-70.5	-20.6	-17.7
114	ok	0.12	0.2	4.84e-02	5.7	5.7	3.9	3.9	-82.7	-1.7	53.3	-69.4	-29.5	-44.7
115	ok	0.12	0.1	5.51e-02	5.7	5.7	3.9	3.9	-62.5	-71.8	83.1	-60.1	-20.5	5.6
116	ok	0.12	7.89e-02	4.35e-02	5.7	5.7	3.9	3.9	-58.1	-78.8	50.6	-44.6	-23.7	20.0
117	ok	0.12	7.58e-02	3.52e-02	5.7	5.7	3.9	3.9	-54.6	-61.9	37.5	45.9	42.6	23.1
118	ok	0.12	7.55e-02	3.08e-02	5.7	5.7	3.9	3.9	-43.6	-59.1	35.0	62.5	55.3	32.4
119	ok	0.12	7.74e-02	2.72e-02	5.7	5.7	3.9	3.9	-30.0	-58.8	28.8	71.4	65.3	40.7
120	ok	0.12	8.49e-02	2.33e-02	5.7	5.7	3.9	3.9	-18.5	-56.1	20.7	73.7	73.1	47.5
121	ok	0.12	0.1	1.89e-02	5.7	5.7	3.9	3.9	-9.4	-49.7	11.0	69.9	79.3	52.0
122	ok	0.12	0.1	4.94e-02	5.7	5.7	3.9	3.9	-70.7	-39.2	75.7	-45.0	-20.8	-16.4
123	ok	0.12	0.1	5.03e-02	5.7	5.7	3.9	3.9	-82.3	2.2	44.9	-51.3	-26.8	-41.9
124	ok	0.12	0.1	4.86e-02	5.7	5.7	3.9	3.9	-59.3	-47.3	75.4	-38.5	-18.9	2.7
125	ok	0.12	6.95e-02	3.67e-02	5.7	5.7	3.9	3.9	-51.8	-49.5	47.8	-30.7	-19.3	16.0
126	ok	0.12	6.43e-02	2.82e-02	5.7	5.7	3.9	3.9	-38.1	-52.8	32.8	57.8	44.2	31.0
127	ok	0.12	6.95e-02	2.51e-02	5.7	5.7	3.9	3.9	-30.4	-54.3	25.8	72.8	56.1	39.7
128	ok	0.12	7.59e-02	2.24e-02	5.7	5.7	3.9	3.9	-21.3	-52.5	20.8	80.1	65.5	47.1
129	ok	0.12	8.26e-02	1.90e-02	5.7	5.7	3.9	3.9	-13.2	-48.1	14.3	80.4	72.7	53.4
130	ok	0.12	0.1	1.51e-02	5.7	5.7	3.9	3.9	-0.9	-41.4	5.4	-323.4	250.6	224.0
131	ok	0.12	0.2	5.22e-02	5.7	5.7	3.9	3.9	-78.6	-61.4	78.3	-21.8	-15.5	-14.2
132	ok	0.12	7.90e-02	4.66e-02	5.7	5.7	3.9	3.9	-82.7	-7.2	39.9	-34.1	-24.1	-39.0
133	ok	0.12	0.2	6.52e-02	5.7	5.7	3.9	3.9	-126.3	-28.5	98.5	-17.0	-13.9	2.5
134	ok	0.12	5.71e-02	2.25e-02	5.7	5.7	3.9	3.9	-36.0	-28.5	29.8	52.2	30.9	30.2
135	ok	0.12	6.06e-02	2.23e-02	5.7	5.7	3.9	3.9	-23.0	-47.6	24.5	68.2	47.4	38.9
136	ok	0.12	6.90e-02	2.17e-02	5.7	5.7	3.9	3.9	-15.4	-49.2	21.4	81.9	57.1	46.1
137	ok	0.12	7.39e-02	1.93e-02	5.7	5.7	3.9	3.9	-13.7	-47.0	14.1	87.9	64.7	52.7
138	ok	0.12	8.49e-02	1.59e-02	5.7	5.7	3.9	3.9	-8.8	-41.1	10.7	86.6	70.1	58.7
139	ok	0.12	0.1	1.23e-02	5.7	5.7	3.9	3.9	-0.4	-35.2	5.8	-301.1	129.6	268.7
140	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-251.9	-129.6	100.3	3.7	0.7	-5.5
141	ok	0.12	0.2	5.23e-02	5.7	5.7	3.9	3.9	-98.0	-16.8	55.7	-14.3	-16.0	-36.8
142	ok	0.12	0.3	4.46e-03	5.7	5.7	3.9	3.9	-7.3	42.5	12.1	-92.6	5.7	-28.1
143	ok	0.12	8.14e-02	2.26e-02	5.7	5.7	3.9	3.9	3.4	-25.3	21.1	56.5	40.5	42.4
144	ok	0.12	6.44e-02	2.24e-02	5.7	5.7	3.9	3.9	-6.2	-44.7	22.4	77.2	50.3	45.1
145	ok	0.12	6.66e-02	2.04e-02	5.7	5.7	3.9	3.9	-7.8	-44.9	19.3	89.9	58.1	51.1
146	ok	0.12	7.21e-02	1.72e-02	5.7	5.7	3.9	3.9	-9.4	-41.1	13.5	94.8	63.5	56.9
147	ok	0.12	8.28e-02	1.34e-02	5.7	5.7	3.9	3.9	-1.7	-34.8	8.5	-227.4	119.1	238.3
148	ok	0.12	0.1	9.95e-03	5.7	5.7	3.9	3.9	7.11e-02	-30.1	5.5	-254.4	104.8	283.0
149	ok	0.12	0.3	5.58e-03	5.7	5.7	3.9	3.9	60.0	22.4	-32.2	-0.5	-2.6	-15.5
150	ok	0.12	0.1	5.25e-02	5.7	5.7	3.9	3.9	-41.9	-72.0	90.5	7.5	0.3	-39.8
151	ok	0.12	0.2	7.21e-03	5.7	5.7	3.9	3.9	-10.3	-23.1	-6.5	13.1	25.9	31.1
152	ok	0.12	0.1	3.31e-02	5.7	5.7	3.9	3.9	3.8	-42.3	35.5	56.8	49.2	40.9
153	ok	0.12	6.92e-02	2.48e-02	5.7	5.7	3.9	3.9	-8.8	-39.6	32.1	85.1	53.2	48.5
154	ok	0.12	6.37e-02	1.94e-02	5.7	5.7	3.9	3.9	-12.3	-38.0	22.8	97.4	59.1	54.6



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
155	ok	0.12	6.92e-02	1.51e-02	5.7	5.7	3.9	3.9	-10.3	-33.6	13.9	100.4	62.8	59.4
156	ok	0.12	7.82e-02	1.12e-02	5.7	5.7	3.9	3.9	-2.0	-29.3	10.5	-200.7	105.4	240.2
157	ok	0.12	0.1	8.05e-03	5.7	5.7	3.9	3.9	0.1	-25.3	5.6	-206.8	137.7	279.0
158	ok	0.12	0.3	4.84e-03	5.7	5.7	3.9	3.9	-1.5	48.2	12.1	-41.0	36.4	-38.9
159	ok	0.12	8.15e-02	1.93e-02	5.7	5.7	3.9	3.9	-5.1	-7.5	11.5	63.2	11.9	-37.9
160	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-286.5	-107.3	81.8	82.4	7.7	-19.5
161	ok	0.12	0.1	3.32e-02	5.7	5.7	3.9	3.9	-46.2	-32.8	54.5	76.2	47.0	34.4
162	ok	0.12	7.30e-02	2.33e-02	5.7	5.7	3.9	3.9	-32.6	-24.1	34.4	96.9	55.1	51.3
163	ok	0.12	6.65e-02	1.72e-02	5.7	5.7	3.9	3.9	-22.9	-27.5	23.5	103.9	61.2	57.9
164	ok	0.12	6.84e-02	1.26e-02	5.7	5.7	3.9	3.9	-14.8	-25.3	12.1	104.0	63.8	60.6
165	ok	0.12	7.88e-02	8.94e-03	5.7	5.7	3.9	3.9	-3.4	-24.3	9.7	-166.7	128.0	232.0
166	ok	0.12	0.1	7.16e-03	5.7	5.7	3.9	3.9	-2.8	-21.9	3.8	-169.1	129.2	258.6
167	ok	0.12	0.2	5.25e-02	5.7	5.7	3.9	3.9	-129.3	22.6	63.0	78.8	6.4	-10.2
168	ok	0.12	7.18e-02	2.21e-02	5.7	5.7	3.9	3.9	-50.4	0.1	5.0	109.3	15.4	-41.4
169	ok	0.12	8.39e-02	5.18e-02	5.7	5.7	3.9	3.9	-91.2	-82.1	18.8	71.0	12.7	3.1
170	ok	0.12	7.53e-02	3.34e-02	5.7	5.7	3.9	3.9	-78.6	-26.6	16.7	36.1	21.1	19.6
171	ok	0.12	6.88e-02	1.95e-02	5.7	5.7	3.9	3.9	-46.1	-17.0	17.6	106.4	59.8	58.0
172	ok	0.12	6.97e-02	1.37e-02	5.7	5.7	3.9	3.9	-26.7	-19.4	14.1	108.2	65.1	60.9
173	ok	0.12	6.97e-02	1.01e-02	5.7	5.7	3.9	3.9	-16.1	-18.3	9.6	104.9	66.9	61.4
174	ok	0.12	8.63e-02	7.07e-03	5.7	5.7	3.9	3.9	-4.8	-20.8	6.1	-136.7	118.2	228.4
175	ok	0.12	0.1	6.52e-03	5.7	5.7	3.9	3.9	-3.4	-18.2	5.1	-154.1	-88.7	231.6
176	ok	0.12	8.67e-02	4.25e-02	5.7	5.7	3.9	3.9	-90.5	-40.5	51.0	110.9	11.0	-16.1
177	ok	0.12	9.11e-02	3.64e-02	5.7	5.7	3.9	3.9	-94.8	5.1	32.1	87.2	29.6	-45.8
178	ok	0.12	9.81e-02	4.95e-02	5.7	5.7	3.9	3.9	-65.5	-20.1	42.0	93.7	16.5	22.6
179	ok	0.12	8.29e-02	1.72e-02	5.7	5.7	3.9	3.9	-49.9	-18.8	-0.7	48.6	35.0	31.2
180	ok	0.12	7.59e-02	1.31e-02	5.7	5.7	3.9	3.9	-33.4	-18.8	2.8	112.4	65.4	62.9
181	ok	0.12	7.37e-02	9.92e-03	5.7	5.7	3.9	3.9	-24.2	-17.6	2.7	110.5	68.4	63.7
182	ok	0.12	7.48e-02	7.89e-03	5.7	5.7	3.9	3.9	-9.5	-19.2	7.8	-121.5	-77.2	192.6
183	ok	0.12	9.88e-02	6.56e-03	5.7	5.7	3.9	3.9	-7.4	-18.5	6.5	-135.5	-93.0	204.8
184	ok	0.12	0.1	6.19e-03	5.7	5.7	3.9	3.9	-4.0	-16.1	2.4	-136.1	-94.4	228.7
185	ok	0.12	0.1	9.01e-02	5.7	5.7	3.9	3.9	-233.8	-67.8	72.5	184.8	4.3	-50.9
186	ok	0.12	0.1	3.49e-02	5.7	5.7	3.9	3.9	-64.0	-9.4	57.4	89.2	41.7	-46.0
187	ok	0.12	0.2	1.85e-02	5.7	5.7	3.9	3.9	-43.1	39.5	-24.2	138.8	22.5	64.0
188	ok	0.12	7.55e-02	1.03e-02	5.7	5.7	3.9	3.9	-5.3	-15.6	7.5	-111.0	-25.8	119.3
189	ok	0.12	7.32e-02	9.55e-03	5.7	5.7	3.9	3.9	-15.5	-21.8	3.0	165.3	83.2	83.8
190	ok	0.12	7.39e-02	8.33e-03	5.7	5.7	3.9	3.9	-19.3	-19.3	4.2	172.5	86.8	85.2
191	ok	0.12	8.38e-02	6.75e-03	5.7	5.7	3.9	3.9	-12.7	-18.0	6.2	-105.4	-98.1	186.7
192	ok	0.12	0.1	6.46e-03	5.7	5.7	3.9	3.9	-11.8	-17.1	5.1	-121.0	-111.9	200.3
193	ok	0.12	0.1	6.21e-03	5.7	5.7	3.9	3.9	-3.6	-21.3	-1.3	-70.8	-63.2	127.6
194	ok	0.12	0.3	2.85e-04	5.7	5.7	3.9	3.9	10.0	55.8	15.5	-37.0	74.2	-29.0
195	ok	0.12	7.91e-02	2.44e-02	5.7	5.7	3.9	3.9	-23.2	-11.7	32.4	99.0	53.8	-30.6
196	ok	0.12	0.2	1.23e-03	5.7	5.7	3.9	3.9	29.9	33.4	-18.4	-32.0	121.7	60.1
197	ok	0.12	6.74e-02	1.98e-02	5.7	5.7	3.9	3.9	-2.4	-18.4	16.4	121.9	74.8	72.5
198	ok	0.12	6.77e-02	1.20e-02	5.7	5.7	3.9	3.9	-14.1	-21.0	8.6	167.7	71.4	83.1
199	ok	0.12	7.26e-02	8.93e-03	5.7	5.7	3.9	3.9	-20.0	-16.5	3.5	174.4	75.8	90.0
200	ok	0.12	9.22e-02	6.93e-03	5.7	5.7	3.9	3.9	-14.0	-15.8	5.8	-88.5	-126.7	180.3
201	ok	0.12	0.1	6.48e-03	5.7	5.7	3.9	3.9	-12.9	-15.9	3.9	-106.5	-139.6	198.7
202	ok	0.12	0.2	6.55e-03	5.7	5.7	3.9	3.9	-4.4	-22.3	-2.0	-70.9	-100.3	139.3
203	ok	0.12	0.2	3.68e-02	5.7	5.7	3.9	3.9	-101.9	27.2	-24.5	288.1	24.8	81.4
204	ok	0.12	0.1	1.50e-02	5.7	5.7	3.9	3.9	-43.7	1.8	1.8	143.8	69.0	-10.1
205	ok	0.12	0.1	6.96e-02	5.7	5.7	3.9	3.9	-184.7	-50.1	50.6	247.0	-9.5	-54.8
206	ok	0.12	8.74e-02	2.07e-02	5.7	5.7	3.9	3.9	-41.2	4.5	25.8	157.2	62.1	62.2
207	ok	0.12	7.05e-02	1.43e-02	5.7	5.7	3.9	3.9	-33.0	-10.3	12.8	182.3	59.0	83.6
208	ok	0.12	7.43e-02	1.05e-02	5.7	5.7	3.9	3.9	-28.4	-10.3	6.4	180.2	60.4	95.5
209	ok	0.12	0.1	8.70e-03	5.7	5.7	3.9	3.9	-20.2	-12.7	4.9	-72.2	-166.0	159.7
210	ok	0.12	0.1	7.91e-03	5.7	5.7	3.9	3.9	-10.9	-18.9	-5.1	-18.1	-160.2	129.8
211	ok	0.12	0.2	7.23e-03	5.7	5.7	3.9	3.9	-6.7	-24.0	-4.3	-68.7	-157.6	156.5
212	ok	0.12	9.54e-02	3.44e-02	5.7	5.7	3.9	3.9	-95.3	10.4	16.9	229.7	41.3	57.6
213	ok	0.12	8.92e-02	2.64e-02	5.7	5.7	3.9	3.9	-76.7	18.9	-2.3	194.9	67.8	20.5
214	ok	0.12	9.60e-02	2.71e-02	5.7	5.7	3.9	3.9	-43.6	-36.7	3.5	215.7	40.0	54.3
215	ok	0.12	8.29e-02	2.52e-02	5.7	5.7	3.9	3.9	-71.6	-6.4	1.9	201.7	44.8	51.4
216	ok	0.12	7.91e-02	1.67e-02	5.7	5.7	3.9	3.9	-45.4	-4.2	5.0	144.7	54.1	64.9
217	ok	0.12	8.84e-02	1.32e-02	5.7	5.7	3.9	3.9	-36.6	-4.4	-9.88e-03	188.9	43.6	96.6
218	ok	0.12	0.1	1.16e-02	5.7	5.7	3.9	3.9	-31.6	-2.4	-4.2	12.5	67.4	41.1
219	ok	0.12	0.2	1.09e-02	5.7	5.7	3.9	3.9	-16.8	-17.4	-9.0	61.7	-162.9	113.9
220	ok	0.12	0.2	1.37e-02	5.7	5.7	3.9	3.9	-24.7	-21.5	-10.8	-67.4	-277.4	168.8
221	ok	0.12	8.25e-02	2.44e-02	5.7	5.7	3.9	3.9	-67.9	-1.0	14.3	212.3	50.5	42.9
222	ok	0.12	9.55e-02	2.59e-02	5.7	5.7	3.9	3.9	-71.7	15.7	18.0	219.2	73.8	-13.3
223	ok	0.12	8.45e-02	2.05e-02	5.7	5.7	3.9	3.9	-55.1	-13.3	4.1	203.9	46.0	45.3
224	ok	0.12	8.47e-02	1.87e-02	5.7	5.7	3.9	3.9	-53.7	-10.3	-3.9	181.2	49.1	50.8



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
225	ok	0.12	8.36e-02	1.73e-02	5.7	5.7	3.9	3.9	-49.7	-2.5	-4.6	158.6	47.3	64.4
226	ok	0.12	9.41e-02	1.51e-02	5.7	5.7	3.9	3.9	-43.1	-0.6	-5.8	137.3	40.8	75.3
227	ok	0.12	0.1	1.40e-02	5.7	5.7	3.9	3.9	-38.7	1.4	-6.0	11.6	71.4	50.1
228	ok	0.12	0.2	1.44e-02	5.7	5.7	3.9	3.9	-36.9	2.7	-7.6	-9.8	82.7	46.4
229	ok	0.12	0.3	1.85e-02	5.7	5.7	3.9	3.9	-43.0	-3.4	6.1	-24.6	98.7	33.5
230	ok	0.12	8.16e-02	2.07e-02	5.7	5.7	3.9	3.9	-56.3	-2.4	6.9	219.0	47.9	38.1
231	ok	0.12	9.60e-02	2.46e-02	5.7	5.7	3.9	3.9	-70.9	-4.7	-6.6	225.8	59.9	39.8
232	ok	0.12	8.42e-02	1.80e-02	5.7	5.7	3.9	3.9	-52.2	-6.3	3.8	209.8	43.8	45.5
233	ok	0.12	8.49e-02	1.66e-02	5.7	5.7	3.9	3.9	-47.9	-5.5	-3.7	192.1	41.5	54.0
234	ok	0.12	8.35e-02	1.60e-02	5.7	5.7	3.9	3.9	-42.8	-1.1	-3.8	73.7	53.3	49.2
235	ok	0.12	8.63e-02	1.52e-02	5.7	5.7	3.9	3.9	-42.9	1.1	-4.5	41.7	58.1	57.6
236	ok	0.12	0.1	1.48e-02	5.7	5.7	3.9	3.9	-41.6	3.2	-4.9	12.5	66.7	63.1
237	ok	0.12	0.2	1.51e-02	5.7	5.7	3.9	3.9	-40.3	4.9	-3.1	-16.1	83.0	65.3
238	ok	0.12	0.3	1.59e-02	5.7	5.7	3.9	3.9	-34.8	4.4	15.4	-56.9	132.1	74.1
239	ok	0.12	8.12e-02	1.76e-02	5.7	5.7	3.9	3.9	-48.1	-1.0	3.1	229.4	39.1	34.7
240	ok	0.12	9.55e-02	2.02e-02	5.7	5.7	3.9	3.9	-57.3	2.2	-9.3	247.6	54.3	39.1
241	ok	0.12	8.38e-02	1.58e-02	5.7	5.7	3.9	3.9	-43.2	-2.2	1.2	218.2	34.6	45.3
242	ok	0.12	8.42e-02	1.48e-02	5.7	5.7	3.9	3.9	-42.5	-2.4	-3.8	201.0	31.0	54.5
243	ok	0.12	8.21e-02	1.43e-02	5.7	5.7	3.9	3.9	-38.2	-0.2	-3.3	83.2	39.7	58.1
244	ok	0.12	7.80e-02	1.40e-02	5.7	5.7	3.9	3.9	-39.6	1.0	-3.3	49.3	43.7	68.7
245	ok	0.12	0.1	1.38e-02	5.7	5.7	3.9	3.9	-39.3	2.7	-2.2	16.9	51.5	78.1
246	ok	0.12	0.2	1.44e-02	5.7	5.7	3.9	3.9	-34.2	4.6	4.8	-82.5	126.8	176.6
247	ok	0.12	0.3	2.10e-02	5.7	5.7	3.9	3.9	-32.5	13.7	9.9	-106.0	256.8	177.8
248	ok	0.12	8.06e-02	1.42e-02	5.7	5.7	3.9	3.9	-37.8	-0.2	2.1	237.5	16.8	45.4
249	ok	0.12	8.34e-02	1.31e-02	5.7	5.7	3.9	3.9	-36.8	-0.6	1.2	249.4	14.5	58.4
250	ok	0.12	8.40e-02	1.25e-02	5.7	5.7	3.9	3.9	-36.1	-0.7	-1.1	131.0	18.9	61.8
251	ok	0.12	8.17e-02	1.23e-02	5.7	5.7	3.9	3.9	-34.9	0.2	-2.2	-43.1	19.3	126.1
252	ok	0.12	7.55e-02	1.21e-02	5.7	5.7	3.9	3.9	-34.8	1.2	-1.3	-52.9	24.3	148.8
253	ok	0.12	8.76e-02	1.18e-02	5.7	5.7	3.9	3.9	-35.9	1.4	-0.6	-72.9	32.1	163.8
254	ok	0.12	0.1	1.11e-02	5.7	5.7	3.9	3.9	-28.0	6.7	6.7	-89.0	117.5	184.2
255	ok	0.12	0.2	1.75e-02	5.7	5.7	3.9	3.9	-21.7	6.0	15.9	-121.3	128.6	208.6
256	ok	0.12	8.49e-02	1.03e-02	5.7	5.7	3.9	3.9	-30.0	-1.5	-1.3	244.3	-0.6	21.0
257	ok	0.12	7.88e-02	9.64e-03	5.7	5.7	3.9	3.9	-27.3	-0.4	-1.4	255.3	-1.6	28.0
258	ok	0.12	7.85e-02	9.60e-03	5.7	5.7	3.9	3.9	-27.9	-0.2	-1.5	138.3	-0.8	35.1
259	ok	0.12	7.53e-02	9.96e-03	5.7	5.7	3.9	3.9	-30.3	-0.1	-2.3	-32.9	8.1	99.7
260	ok	0.12	6.84e-02	1.03e-02	5.7	5.7	3.9	3.9	-32.4	-0.2	-2.1	-44.6	12.2	113.0
261	ok	0.12	5.67e-02	1.03e-02	5.7	5.7	3.9	3.9	-30.9	0.3	-7.21e-02	-37.8	21.9	144.1
262	ok	0.12	8.66e-02	9.47e-03	5.7	5.7	3.9	3.9	-25.7	4.3	5.1	-49.3	32.5	180.7
388	ok	0.12	9.69e-02	6.05e-02	5.7	5.7	3.9	3.9	-38.9	-160.4	-26.6	-65.2	59.8	-58.5
389	ok	0.12	0.2	9.20e-02	5.7	5.7	3.9	3.9	68.9	-229.2	34.3	65.4	26.4	-36.0
390	ok	0.12	0.1	1.86e-02	5.7	5.7	3.9	3.9	-8.5	-36.6	28.3	-29.8	27.4	38.2
397	ok	0.12	0.5	4.51e-03	5.7	5.7	3.9	3.9	8.3	165.9	15.1	2.6	1.8	21.7
398	ok	0.12	8.46e-02	6.00e-02	5.7	5.7	3.9	3.9	-23.1	-152.1	46.7	-16.3	-3.9	-34.3
399	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	6.2	-294.3	6.7	6.2	-5.9	-22.9
406	ok	0.12	0.2	1.36e-02	5.7	5.7	3.9	3.9	-0.1	37.2	26.1	-12.6	-4.1	22.1
407	ok	0.12	0.5	4.17e-03	5.7	5.7	3.9	3.9	5.6	181.3	14.5	1.0	-17.4	-0.4
408	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-132.5	-401.8	-266.5	-7.2	-27.5	-24.8
415	ok	0.12	0.5	0.2	5.7	5.7	3.9	3.9	227.6	-429.5	103.8	12.0	-17.8	-5.7
416	ok	0.12	0.4	7.99e-02	5.7	5.7	3.9	3.9	-72.2	-99.6	-140.1	-9.8	-32.2	-3.0
417	ok	0.13	0.8	1.67e-02	5.8	5.7	4.3	4.5	27.3	328.8	-50.8	-11.0	31.0	18.9
424	ok	0.12	0.1	9.81e-02	5.7	5.7	3.9	3.9	-16.2	-220.0	-114.6	1.5	-15.7	-25.2
425	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	21.4	-349.9	0.8	1.1	-11.4	-11.4
426	ok	0.12	0.5	8.51e-02	5.7	5.7	3.9	3.9	-24.0	-174.0	-118.1	26.1	-32.5	-27.5
433	ok	0.13	0.8	7.01e-02	6.4	6.6	5.9	5.3	46.3	388.4	-121.8	14.3	-108.2	-29.9
434	ok	0.12	0.2	7.50e-02	5.7	5.7	3.9	3.9	1.9	-157.2	-106.0	-1.0	5.5	-25.4
435	ok	0.12	0.1	8.37e-02	5.7	5.7	3.9	3.9	3.5	-228.3	-6.2	-6.07e-02	4.0	-11.9
442	ok	0.12	0.5	7.93e-02	5.7	5.7	3.9	3.9	-10.3	-131.0	-140.4	-3.3	16.3	-58.0
443	ok	0.12	0.7	5.07e-02	5.7	5.7	3.9	3.9	29.2	237.4	-85.1	-0.6	5.4	-36.9
444	ok	0.12	0.3	5.70e-02	5.7	5.7	3.9	3.9	1.9	-89.5	-107.6	-6.6	24.1	-19.5
451	ok	0.12	7.06e-02	3.68e-02	5.7	5.7	3.9	3.9	1.8	-99.5	-7.4	8.53e-02	19.1	-10.1
452	ok	0.12	0.4	7.94e-02	5.7	5.7	3.9	3.9	22.5	40.2	-139.7	-23.1	43.9	-25.4
453	ok	0.12	0.5	7.23e-02	5.7	5.7	3.9	3.9	-30.5	-167.8	-76.9	-10.7	103.0	-32.7
460	ok	0.12	0.3	4.21e-02	5.7	5.7	3.9	3.9	5.3	28.3	-97.6	-2.5	22.1	25.6
461	ok	0.12	0.3	7.40e-03	5.7	5.7	3.9	3.9	1.3	57.8	-16.6	0.5	19.5	22.7
462	ok	0.12	0.4	7.91e-02	5.7	5.7	3.9	3.9	-10.3	-149.4	-124.3	-2.1	31.9	-6.2
469	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-31.4	-265.1	-78.7	4.8	11.6	8.9
470	ok	0.12	0.4	3.17e-02	5.7	5.7	3.9	3.9	8.5	56.6	-114.5	-2.2	30.9	-12.9
471	ok	0.12	0.6	5.93e-04	5.7	5.7	3.9	3.9	1.5	180.6	-8.3	-0.1	30.9	-7.0
478	ok	0.12	0.4	7.35e-02	5.7	5.7	3.9	3.9	8.9	-147.9	-112.1	1.1	14.4	-7.9
479	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-26.2	-324.6	-61.0	-1.3	19.5	-6.0



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
480	ok	0.12	0.6	2.56e-02	5.7	5.7	3.9	3.9	16.0	115.2	-118.6	-9.5	37.6	-15.4
487	ok	0.13	1.0	4.50e-03	5.7	5.7	4.2	4.4	3.6	325.9	-9.2	-0.7	34.6	-4.0
488	ok	0.12	0.3	8.07e-02	5.7	5.7	3.9	3.9	-8.6	-128.4	-147.3	13.3	43.3	-47.2
489	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	1.3	-346.9	-11.3	18.2	-59.5	-58.8
496	ok	0.13	0.8	2.21e-02	6.7	6.9	5.0	5.1	127.7	246.0	-237.6	-34.0	41.7	2.7
497	ok	0.13	1.0	5.74e-02	6.0	6.0	6.6	6.8	-160.8	443.4	69.2	25.7	42.1	-7.4
504	ok	0.12	0.2	8.45e-02	5.7	5.7	3.9	3.9	28.9	-95.9	-66.8	-42.4	54.2	-76.9
505	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-27.7	-571.5	-59.2	-21.6	187.4	-59.6
511	ok	0.12	0.2	2.14e-02	5.7	5.7	3.9	3.9	-10.2	-59.1	-3.9	48.8	64.1	47.6
512	ok	0.12	1.0	8.83e-03	5.7	5.7	3.9	3.9	-5.8	50.4	-27.0	-8.2	-124.0	39.6
513	ok	0.12	0.3	0.3	5.7	5.7	3.9	3.9	-801.1	-151.0	89.0	31.2	36.7	16.6
514	ok	0.18	1.0	0.2	15.8	16.0	12.1	11.5	678.1	-19.8	512.3	-251.1	-165.9	-114.3
515	ok	0.15	1.0	0.0	8.3	7.8	6.6	6.1	336.4	284.4	-210.4	-10.8	74.7	62.0
...														
2027	ok	0.10	0.3	9.09e-02	3.1	3.1	3.1	3.1	-127.9	37.9	34.8	-233.3	-46.9	124.0
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-1312.62	-1092.68	-1114.23	-482.72	-541.70	-531.31
		0.19	0.99	0.64	15.80	15.96	17.21	16.67	678.14	1042.30	608.65	580.99	700.56	382.93

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
1	ok	0.17						
3	ok	0.41						
5	ok	0.17						
11	ok	3.18						
13	ok	2.40						
15	ok	0.42						
16	ok	0.42						
17	ok	0.41						
18	ok	0.38						
19	ok	0.38						
20	ok	0.40						
21	ok	0.40						
22	ok	0.43						
23	ok	0.43						
24	ok	0.54						
25	ok	0.49						
26	ok	0.83						
27	ok	0.61						
28	ok	1.99						
29	ok	0.76						
30	ok Av	6.93	8.23e-03	0.27	0.2	7.9	3.6	116.7
31	ok	1.50						
32	ok	0.39						
33	ok	0.32						
34	ok	1.05						
35	ok	0.58						
36	ok	0.18						
37	ok	0.21						
38	ok	0.27						
39	ok	0.39						
40	ok	0.30						
41	ok	0.49						
42	ok	0.32						
43	ok	1.05						
44	ok	0.58						
45	ok	0.15						
46	ok	0.19						
47	ok	0.23						
48	ok	0.23						
49	ok	0.30						
50	ok	0.49						
51	ok	0.32						
52	ok	0.42						
53	ok	0.32						
54	ok	0.15						
55	ok	0.14						
56	ok	0.16						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
57	ok	0.18						
58	ok	0.21						
59	ok	0.39						
60	ok	0.25						
61	ok	0.30						
62	ok	0.18						
63	ok	0.11						
64	ok	0.10						
65	ok	0.12						
66	ok	0.14						
67	ok	0.17						
68	ok	0.20						
69	ok	0.22						
70	ok	0.31						
71	ok	0.30						
72	ok	0.10						
73	ok	0.08						
74	ok	0.10						
75	ok	0.11						
76	ok	0.14						
77	ok	0.38						
78	ok	0.34						
79	ok	0.60						
80	ok	0.43						
81	ok	0.10						
82	ok	0.07						
83	ok	0.08						
84	ok	0.10						
85	ok	0.12						
86	ok	0.63						
87	ok	0.38						
88	ok	0.60						
89	ok	0.43						
90	ok	0.08						
91	ok	0.07						
92	ok	0.07						
93	ok	0.08						
94	ok	0.10						
95	ok	0.63						
96	ok	0.38						
97	ok	0.36						
98	ok	0.31						
99	ok	0.07						
100	ok	0.06						
101	ok	0.06						
102	ok	0.07						
103	ok	0.09						
104	ok	0.32						
105	ok	0.18						
106	ok	0.30						
107	ok	0.24						
108	ok	0.08						
109	ok	0.06						
110	ok	0.05						
111	ok	0.06						
112	ok	0.08						
113	ok	0.14						
114	ok	0.14						
115	ok	0.15						
116	ok	0.14						
117	ok	0.09						
118	ok	0.06						
119	ok	0.05						
120	ok	0.06						
121	ok	0.07						
122	ok	0.15						
123	ok	0.15						
124	ok	0.13						
125	ok	0.11						
126	ok	0.09						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
127	ok	0.06						
128	ok	0.05						
129	ok	0.05						
130	ok	0.07						
131	ok	0.28						
132	ok	0.15						
133	ok	0.23						
134	ok	0.20						
135	ok	0.08						
136	ok	0.06						
137	ok	0.05						
138	ok	0.05						
139	ok	0.07						
140	ok	0.74						
141	ok	0.39						
142	ok	0.23						
143	ok	0.22						
144	ok	0.07						
145	ok	0.05						
146	ok	0.04						
147	ok	0.05						
148	ok	0.07						
149	ok	0.74						
150	ok	0.39						
151	ok	0.45						
152	ok	0.27						
153	ok	0.07						
154	ok	0.05						
155	ok	0.04						
156	ok	0.05						
157	ok	0.07						
158	ok	0.30						
159	ok	0.24						
160	ok	0.45						
161	ok	0.27						
162	ok	0.07						
163	ok	0.05						
164	ok	0.04						
165	ok	0.05						
166	ok	0.07						
167	ok	0.25						
168	ok	0.18						
169	ok	0.33						
170	ok	0.23						
171	ok	0.08						
172	ok	0.05						
173	ok	0.04						
174	ok	0.05						
175	ok	0.07						
176	ok	0.26						
177	ok	0.13						
178	ok	0.22						
179	ok	0.17						
180	ok	0.08						
181	ok	0.05						
182	ok	0.04						
183	ok	0.05						
184	ok	0.06						
185	ok	0.54						
186	ok	0.30						
187	ok	0.22						
188	ok	0.18						
189	ok	0.05						
190	ok	0.04						
191	ok	0.04						
192	ok	0.06						
193	ok	0.07						
194	ok	0.54						
195	ok	0.30						
196	ok	0.43						



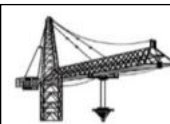
Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
197	ok	0.24						
198	ok	0.05						
199	ok	0.04						
200	ok	0.06						
201	ok	0.07						
202	ok	0.09						
203	ok	0.37						
204	ok	0.29						
205	ok	0.43						
206	ok	0.24						
207	ok	0.06						
208	ok	0.05						
209	ok	0.08						
210	ok	0.10						
211	ok	0.12						
212	ok	0.18						
213	ok	0.16						
214	ok	0.23						
215	ok	0.18						
216	ok	0.07						
217	ok	0.07						
218	ok	0.08						
219	ok	0.18						
220	ok	0.25						
221	ok	0.10						
222	ok	0.10						
223	ok	0.11						
224	ok	0.10						
225	ok	0.07						
226	ok	0.07						
227	ok	0.10						
228	ok	0.18						
229	ok	0.60						
230	ok	0.11						
231	ok	0.11						
232	ok	0.09						
233	ok	0.07						
234	ok	0.06						
235	ok	0.07						
236	ok	0.10						
237	ok	0.18						
238	ok	0.60						
239	ok	0.11						
240	ok	0.11						
241	ok	0.09						
242	ok	0.07						
243	ok	0.08						
244	ok	0.10						
245	ok	0.10						
246	ok	0.23						
247	ok	0.57						
248	ok	0.18						
249	ok	0.18						
250	ok	0.20						
251	ok	0.22						
252	ok	0.26						
253	ok	0.32						
254	ok	0.42						
255	ok	2.82						
256	ok	0.18						
257	ok	0.18						
258	ok	0.20						
259	ok	0.22						
260	ok	0.26						
261	ok	0.32						
262	ok	0.42						
388	ok	0.19						
389	ok	0.25						
390	ok	0.08						
397	ok	0.20						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
398	ok	0.08						
399	ok	0.17						
406	ok	0.06						
407	ok	0.23						
408	ok	0.21						
415	ok	0.51						
416	ok	0.13						
417	ok	0.38						
424	ok	0.11						
425	ok	0.40						
426	ok	0.24						
433	ok	1.40						
434	ok	0.11						
435	ok	0.40						
442	ok	0.24						
443	ok	1.40						
444	ok	0.10						
451	ok	0.40						
452	ok	0.19						
453	ok	0.70						
460	ok	0.09						
461	ok	0.39						
462	ok	0.19						
469	ok	0.70						
470	ok	0.06						
471	ok	0.38						
478	ok	0.19						
479	ok	0.63						
480	ok	0.08						
487	ok	0.37						
488	ok	0.19						
489	ok	0.63						
496	ok	0.35						
497	ok	0.35						
504	ok	0.28						
505	ok	0.70						
511	ok	0.18						
512	ok Av	7.35	0.27	0.09	7.9	2.7	117.2	39.8
513	ok	2.20						
514	ok Av	5.51	0.05	0.22	1.5	6.3	22.4	92.9
515	ok	1.74						
...								
2027	ok	0.26	8.25e-03	0.27	0.2	7.9	3.6	116.7
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		9.81	0.35	0.27	10.06	7.87	149.23	116.71

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
2	20.00	3	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	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	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-71.6	-204.1	-134.8	-4.4	-45.0	35.1
6	ok	0.12	0.2	2.97e-02	5.7	5.7	3.9	3.9	-15.5	23.8	-84.5	49.8	36.3	90.1
264	ok	0.12	0.5	0.0	5.7	5.7	3.9	3.9	6.8	163.6	-3.8	-3.2	50.3	48.1
265	ok	0.12	0.3	6.36e-02	5.7	5.7	3.9	3.9	-20.9	-29.7	-91.7	115.9	65.4	86.3
267	ok	0.12	0.2	9.79e-02	5.7	5.7	3.9	3.9	-70.8	-153.6	-159.3	-10.6	-126.1	98.5
280	ok	0.12	0.2	5.93e-02	5.7	5.7	3.9	3.9	-30.9	-51.1	-126.9	62.0	25.9	126.4
281	ok	0.12	0.4	1.34e-02	5.7	5.7	3.9	3.9	27.7	57.7	3.0	-8.1	48.1	66.0
282	ok	0.12	0.3	8.82e-02	5.7	5.7	3.9	3.9	-45.2	-49.3	-169.7	76.1	-35.8	100.9
289	ok	0.12	0.3	9.83e-02	5.7	5.7	3.9	3.9	-63.4	-85.6	-40.9	9.9	92.1	81.9
290	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-154.2	-278.0	-322.3	115.2	27.4	182.4
291	ok	0.12	0.7	4.84e-02	5.7	5.7	3.9	3.9	268.8	-27.1	119.8	-75.4	42.7	76.2
298	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-118.4	-18.3	-174.4	135.8	36.0	92.2
299	ok	0.12	0.3	8.25e-02	5.7	5.7	3.9	3.9	-72.7	-40.7	-177.6	-0.8	-31.4	64.8
300	ok	0.12	0.1	9.97e-02	5.7	5.7	3.9	3.9	-105.6	-177.4	159.3	65.1	25.7	-68.1
307	ok	0.13	1.0	8.77e-02	5.7	5.7	3.9	3.9	18.1	-310.7	26.8	-39.9	36.1	-25.8



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
308	ok	0.12	0.2	7.04e-02	5.7	5.7	3.9	3.9	-51.6	-55.4	41.1	119.0	27.5	-42.7
309	ok	0.12	0.3	6.85e-02	5.7	5.7	3.9	3.9	-71.0	-62.7	125.3	-1.1	-7.9	-29.5
316	ok	0.12	0.2	4.73e-02	5.7	5.7	3.9	3.9	-20.1	-142.9	50.1	52.2	18.3	-37.8
317	ok	0.12	0.6	5.00e-02	5.7	5.7	3.9	3.9	63.6	-90.6	53.0	-32.9	27.2	-33.3
318	ok	0.12	0.2	4.98e-02	5.7	5.7	3.9	3.9	-43.0	-58.5	34.8	115.7	28.5	-38.1
325	ok	0.12	0.3	6.58e-02	5.7	5.7	3.9	3.9	-69.4	-75.6	114.5	-0.6	-19.3	-31.7
326	ok	0.12	0.2	5.12e-02	5.7	5.7	3.9	3.9	-27.4	-144.3	-78.8	98.4	30.6	7.7
327	ok	0.12	0.5	5.43e-02	5.7	5.7	3.9	3.9	53.7	0.2	-28.6	-58.4	53.0	9.0
334	ok	0.12	0.2	5.57e-02	5.7	5.7	3.9	3.9	-70.2	-70.5	-22.0	139.2	28.2	5.0
335	ok	0.12	0.3	6.87e-02	5.7	5.7	3.9	3.9	-70.1	-65.1	-127.9	2.2	-8.8	3.9
336	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-125.0	-200.2	-185.4	95.4	36.4	52.5
343	ok	0.12	1.0	9.41e-02	5.7	5.7	3.9	3.9	154.3	256.7	107.9	-57.1	19.4	-18.0
344	ok	0.12	0.2	8.06e-02	5.7	5.7	3.9	3.9	-67.3	-70.0	-105.7	154.9	32.0	6.2
345	ok	0.12	0.3	6.77e-02	5.7	5.7	3.9	3.9	-66.9	-47.3	-132.8	2.9	5.8	0.7
352	ok	0.12	0.1	3.95e-02	5.7	5.7	3.9	3.9	-42.8	-59.3	75.4	58.2	33.6	-57.0
353	ok	0.12	0.7	2.62e-03	5.7	5.7	3.9	3.9	24.9	0.3	4.5	-39.5	45.4	-25.5
354	ok	0.12	0.2	4.63e-02	5.7	5.7	3.9	3.9	-33.1	-34.1	19.7	115.6	36.8	-27.4
361	ok	0.12	0.2	9.03e-02	5.7	5.7	3.9	3.9	-70.4	-164.1	129.4	-2.2	-9.0	-19.8
362	ok	0.12	0.2	1.40e-02	5.7	5.7	3.9	3.9	-11.6	-18.1	27.3	42.3	43.0	-20.3
363	ok	0.12	0.4	0.0	5.7	5.7	3.9	3.9	9.5	140.7	0.8	-6.4	52.2	-10.5
370	ok	0.12	0.2	3.86e-02	5.7	5.7	3.9	3.9	-18.2	-30.4	13.3	108.1	32.6	-10.1
371	ok	0.12	0.1	8.43e-02	5.7	5.7	3.9	3.9	-72.2	-173.8	-102.1	-0.8	-7.2	-0.9
372	ok	0.12	0.2	4.41e-02	5.7	5.7	3.9	3.9	-49.2	-55.4	-86.3	63.1	23.5	36.5
379	ok	0.12	0.7	3.06e-03	5.7	5.7	3.9	3.9	81.0	186.1	57.6	-48.5	21.8	-13.9
380	ok	0.12	0.2	5.20e-02	5.7	5.7	3.9	3.9	-34.1	-52.6	-42.7	107.6	20.1	2.2
381	ok	0.12	0.2	7.54e-02	5.7	5.7	3.9	3.9	-66.5	-116.6	-119.3	1.7	-6.2	3.8
1053	ok	0.12	0.1	5.74e-02	5.7	5.7	3.9	3.9	-160.8	-3.0	31.1	-62.6	-184.4	-28.1
1054	ok	0.12	0.2	6.16e-02	5.7	5.7	3.9	3.9	-152.1	1.8	68.8	-49.5	-171.2	-17.4
1057	ok	0.12	0.2	5.97e-02	5.7	5.7	3.9	3.9	-117.5	3.9	96.7	-34.9	-125.7	-8.4
1059	ok	0.12	0.3	5.21e-02	5.7	5.7	3.9	3.9	-63.3	0.9	113.6	-11.2	-40.9	-3.1
1061	ok	0.12	0.3	3.58e-02	5.7	5.7	3.9	3.9	16.7	-1.3	106.2	34.1	96.1	-9.0
1063	ok	0.12	0.3	1.69e-02	5.7	5.7	3.9	3.9	60.7	-4.3	62.5	78.0	331.8	-29.7
1065	ok	0.12	0.3	7.50e-03	5.7	5.7	3.9	3.9	45.4	-5.2	16.5	45.8	406.5	-9.4
1067	ok	0.12	0.4	9.53e-03	5.7	5.7	3.9	3.9	15.0	0.9	-10.6	11.5	362.4	39.4
1069	ok	0.12	0.3	2.56e-02	5.7	5.7	3.9	3.9	-12.6	-9.1	-58.4	-39.2	13.1	37.1
1206	ok	0.12	0.3	1.76e-02	5.7	5.7	3.9	3.9	8.4	67.6	21.4	46.9	-55.7	-40.8
1207	ok	0.13	0.9	1.58e-02	6.1	5.8	5.1	4.2	26.1	184.2	28.0	50.9	-112.7	-78.2
1208	ok	0.12	0.5	6.65e-02	5.7	5.7	3.9	3.9	-119.9	88.7	77.4	-26.2	-64.4	-46.5
1209	ok	0.12	0.3	3.49e-02	5.7	5.7	3.9	3.9	-95.5	70.9	20.7	-18.9	-56.4	-41.8
1210	ok	0.12	0.1	8.91e-02	5.7	5.7	3.9	3.9	-258.6	-112.5	8.3	-12.1	-2.1	2.1
1211	ok	0.12	0.3	6.03e-02	5.7	5.7	3.9	3.9	-50.8	36.3	75.2	-23.0	-71.2	-65.6
1212	ok	0.13	0.9	7.36e-02	5.7	5.7	5.5	4.4	-29.1	360.4	15.7	-7.9	-180.7	-32.6
1213	ok	0.12	0.5	0.1	5.7	5.7	3.9	3.9	-286.9	78.8	124.1	1.2	-57.6	-66.8
1214	ok	0.12	0.5	0.2	5.7	5.7	3.9	3.9	-366.1	188.6	-90.1	-4.9	43.9	-54.3
1215	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-391.9	-96.8	248.7	-15.7	-69.5	-39.2
1216	ok	0.12	0.3	0.4	5.7	5.7	3.9	3.9	-1012.8	-368.4	341.8	-157.4	-115.7	115.1
1217	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-266.3	-184.7	111.8	-37.3	-146.9	-13.1
1218	ok	0.12	0.5	0.1	5.7	5.7	3.9	3.9	-290.7	-49.4	136.6	-246.0	-278.8	111.8
1219	ok	0.12	0.5	9.27e-02	5.7	5.7	3.9	3.9	-213.3	-80.0	3.3	-224.7	-416.8	57.0
1220	ok	0.12	0.6	9.69e-02	5.7	5.7	3.9	3.9	-158.9	-33.1	124.0	-327.9	-201.8	-21.2
1221	ok	0.12	0.8	6.18e-02	5.7	5.7	3.9	3.9	-140.3	-43.2	-28.2	-824.3	-865.0	184.6
1222	ok	0.12	0.4	5.94e-02	5.7	5.7	3.9	3.9	-67.7	-6.8	129.0	-70.3	-136.8	-77.3
1223	ok	0.12	0.4	3.94e-02	5.7	5.7	3.9	3.9	-69.0	19.1	75.7	196.3	23.2	127.2
1224	ok	0.12	0.3	5.67e-02	5.7	5.7	3.9	3.9	-127.5	35.6	80.3	-36.3	-99.4	-49.1
1225	ok	0.12	0.2	4.67e-02	5.7	5.7	3.9	3.9	-126.6	37.2	30.0	-35.0	-98.3	-52.2
1226	ok	0.12	0.3	6.64e-02	5.7	5.7	3.9	3.9	-131.4	31.6	111.4	-29.0	-81.3	-45.8
1227	ok	0.12	0.4	8.18e-02	5.7	5.7	3.9	3.9	-140.4	19.8	145.1	-5.2	-49.4	-51.8
1228	ok	0.12	0.3	8.31e-02	5.7	5.7	3.9	3.9	-118.7	-39.5	153.8	23.8	-20.3	-59.8
1229	ok	0.12	0.2	5.75e-02	5.7	5.7	3.9	3.9	-84.0	-70.4	74.4	20.0	-26.4	-75.2
1230	ok	0.12	0.3	2.86e-02	5.7	5.7	3.9	3.9	-79.4	-53.2	4.2	-217.9	-105.2	-68.8
1231	ok	0.12	0.6	3.38e-02	5.7	5.7	3.9	3.9	-83.9	-25.7	-12.2	-264.9	-57.4	122.5
1232	ok	0.12	0.7	4.73e-02	5.7	5.7	3.9	3.9	-65.2	2.3	-96.9	-73.3	-204.2	187.5
1233	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-240.8	-92.3	152.7	3.3	4.1	13.2
1234	ok	0.12	0.2	3.77e-02	5.7	5.7	3.9	3.9	-138.7	12.6	-8.9	-19.4	-4.3	16.4
1235	ok	0.12	9.55e-02	8.91e-02	5.7	5.7	3.9	3.9	-245.7	-19.5	4.1	14.2	-1.8	-2.7
1236	ok	0.12	0.1	9.80e-02	5.7	5.7	3.9	3.9	-285.3	-19.6	-3.6	14.7	-1.6	13.7
1237	ok	0.12	9.63e-02	9.14e-02	5.7	5.7	3.9	3.9	-263.4	3.4	-7.2	14.5	1.1	-7.8
1238	ok	0.12	9.63e-02	9.08e-02	5.7	5.7	3.9	3.9	-264.0	-18.2	-8.6	15.2	-1.9	5.8
1239	ok	0.12	0.2	3.48e-02	5.7	5.7	3.9	3.9	-127.5	9.9	11.8	-10.2	-0.9	-22.9
1240	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-260.2	-87.2	-144.2	-14.2	9.5	-31.0



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
1241	ok	0.12	0.2	1.86e-02	5.7	5.7	3.9	3.9	7.2	-29.1	9.4	-57.8	13.1	-77.9
1242	ok	0.15	0.9	0.2	5.8	9.1	4.1	7.4	-497.7	41.6	-319.0	-294.5	-95.7	-219.5
1243	ok	0.12	0.2	1.59e-02	5.7	5.7	3.9	3.9	-11.5	2.9	40.1	13.8	154.2	47.5
1244	ok	0.13	0.9	3.87e-04	6.0	6.0	4.3	4.5	154.3	176.5	-94.0	-195.6	-28.7	31.0
1245	ok	0.12	0.4	8.87e-02	5.7	5.7	3.9	3.9	-154.4	29.6	-99.3	-248.0	17.1	-38.1
1246	ok	0.12	0.2	6.61e-02	5.7	5.7	3.9	3.9	-190.8	48.5	19.9	-93.0	8.2	-134.7
1247	ok	0.12	0.1	9.36e-02	5.7	5.7	3.9	3.9	-207.9	-153.7	-36.6	-217.5	-5.4	-20.1
1248	ok	0.12	0.3	8.50e-02	5.7	5.7	3.9	3.9	-146.5	26.2	-72.6	-209.0	-11.2	26.2
1249	ok	0.13	0.9	6.60e-02	5.8	5.7	6.0	6.1	-6.6	461.9	-31.0	-50.1	15.7	53.4
1250	ok	0.12	0.5	0.1	5.7	5.7	3.9	3.9	-345.4	77.0	-153.7	-74.6	-16.1	24.1
1251	ok	0.12	0.6	0.2	5.7	5.7	3.9	3.9	-413.1	228.4	104.7	29.2	-2.8	-34.6
1252	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-467.5	-110.6	-311.3	116.8	-15.9	19.1
1253	ok	0.12	0.3	0.5	5.7	5.7	3.9	3.9	-1202.9	-446.5	-409.0	407.8	3.8	48.5
1254	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-313.9	-211.2	-131.8	204.1	-35.1	51.6
1255	ok	0.12	0.5	0.1	5.7	5.7	3.9	3.9	-316.8	32.1	-153.2	136.8	11.2	143.1
1256	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-311.4	-86.1	49.0	179.2	4.6	83.3
1257	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-183.4	-43.4	-57.6	196.1	72.6	108.7
1258	ok	0.12	0.1	6.54e-02	5.7	5.7	3.9	3.9	-150.6	-26.7	33.9	171.5	65.4	114.6
1259	ok	0.12	0.3	5.20e-02	5.7	5.7	3.9	3.9	-65.3	19.2	-116.6	-21.1	-53.0	71.2
1260	ok	0.12	0.3	3.78e-02	5.7	5.7	3.9	3.9	-71.8	33.5	-45.8	-15.9	-87.8	109.0
1261	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-321.0	25.0	-152.5	-504.7	15.2	-99.1
1262	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-335.0	-98.9	101.3	-369.1	-15.3	-106.0
1263	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-291.2	-12.8	-166.8	-302.9	-202.6	74.1
1264	ok	0.12	0.4	0.1	5.7	5.7	3.9	3.9	-225.3	17.1	-168.8	-87.1	-62.5	37.3
1265	ok	0.12	0.3	9.89e-02	5.7	5.7	3.9	3.9	-149.5	-26.0	-176.3	73.1	-37.1	55.2
1266	ok	0.12	0.1	6.17e-02	5.7	5.7	3.9	3.9	-89.0	-41.6	-78.3	169.8	-41.8	44.5
1267	ok	0.12	9.83e-02	4.02e-02	5.7	5.7	3.9	3.9	-115.9	-52.4	2.8	158.2	0.8	52.1
1268	ok	0.12	0.2	5.51e-02	5.7	5.7	3.9	3.9	-34.6	-21.5	32.3	86.0	-46.0	129.1
1269	ok	0.12	0.3	3.68e-02	5.7	5.7	3.9	3.9	-77.6	-2.3	-20.4	21.0	-127.9	184.7
1270	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-551.4	-125.5	-120.8	-862.3	-521.8	64.5
1271	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-347.8	-9.0	-51.4	-250.4	-177.3	-1.7
1272	ok	0.12	0.1	6.90e-02	5.7	5.7	3.9	3.9	-176.7	-0.4	-61.9	-99.7	-107.9	11.7
1273	ok	0.12	0.2	2.38e-02	5.7	5.7	3.9	3.9	17.4	-1.5	-59.5	79.7	-10.3	20.1
1274	ok	0.12	0.3	1.12e-02	5.7	5.7	3.9	3.9	143.0	-19.6	-42.8	266.2	74.2	23.1
1275	ok	0.12	0.3	0.0	5.7	5.7	3.9	3.9	119.5	37.3	1.4	148.1	85.3	55.7
1276	ok	0.12	0.2	1.22e-02	5.7	5.7	3.9	3.9	79.1	-20.9	17.8	-132.0	-60.2	58.4
1277	ok	0.12	0.2	8.19e-02	5.7	5.7	3.9	3.9	-65.0	-102.1	-6.3	-1.3	92.4	15.7
1278	ok	0.12	5.06e-02	2.66e-02	5.7	5.7	3.9	3.9	-61.0	1.7	0.4	36.2	0.2	10.6
1279	ok	0.12	6.38e-02	3.73e-02	5.7	5.7	3.9	3.9	-100.4	-5.4	-1.6	35.6	0.5	17.7
1280	ok	0.12	9.29e-02	5.28e-02	5.7	5.7	3.9	3.9	-177.3	-3.8	-57.1	3.2	-3.6	15.6
1281	ok	0.12	6.04e-02	2.39e-02	5.7	5.7	3.9	3.9	-72.1	-2.5	-8.9	62.5	-2.5	13.3
1282	ok	0.12	7.33e-02	3.87e-02	5.7	5.7	3.9	3.9	-110.5	-6.8	13.2	65.8	2.4	15.8
1283	ok	0.12	7.86e-02	3.09e-02	5.7	5.7	3.9	3.9	-83.0	11.4	-1.8	100.5	-1.3	9.3
1284	ok	0.12	8.70e-02	4.92e-02	5.7	5.7	3.9	3.9	-132.5	-16.7	35.8	99.9	5.5	10.5
1285	ok	0.12	0.5	5.42e-02	5.7	5.7	3.9	3.9	-156.7	-13.3	11.9	154.2	3.1	1.5
1286	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-169.6	-20.9	69.7	136.5	2.3	3.3
1287	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-209.8	-581.4	197.0	79.9	26.9	-109.6
1288	ok	0.12	0.3	8.77e-02	5.7	5.7	3.9	3.9	-132.1	-148.0	77.6	165.1	6.2	-36.9
1289	ok	0.12	0.3	8.34e-02	5.7	5.7	3.9	3.9	-144.4	-130.4	62.5	80.2	18.3	-56.3
1290	ok	0.12	0.1	6.12e-02	5.7	5.7	3.9	3.9	-132.2	-108.6	42.1	152.4	22.0	-48.7
1291	ok	0.12	0.1	7.31e-02	5.7	5.7	3.9	3.9	-91.4	-51.3	28.3	135.5	29.0	-40.9
1292	ok	0.12	0.1	6.04e-02	5.7	5.7	3.9	3.9	-122.4	-57.7	23.6	151.5	34.9	-42.7
1293	ok	0.12	0.3	6.42e-02	5.7	5.7	3.9	3.9	-72.3	-52.5	120.2	-2.0	-0.6	-23.3
1294	ok	0.12	0.3	5.08e-02	5.7	5.7	3.9	3.9	-66.8	-30.8	94.5	-1.9	-15.5	-28.8
1295	ok	0.12	6.79e-02	4.27e-02	5.7	5.7	3.9	3.9	-114.5	-14.6	-35.3	22.1	-2.5	18.7
1296	ok	0.12	6.35e-02	4.74e-02	5.7	5.7	3.9	3.9	-122.6	-27.4	-60.7	-16.9	-5.7	16.0
1297	ok	0.12	7.73e-02	4.63e-02	5.7	5.7	3.9	3.9	-125.6	-26.7	27.2	62.3	3.9	10.2
1298	ok	0.12	9.00e-02	5.64e-02	5.7	5.7	3.9	3.9	-134.9	-39.0	52.5	91.6	5.7	5.0
1299	ok	0.12	0.1	6.55e-02	5.7	5.7	3.9	3.9	-104.2	-93.2	103.3	35.1	6.1	-13.1
1300	ok	0.12	0.1	6.40e-02	5.7	5.7	3.9	3.9	-108.3	-108.8	67.9	142.2	13.6	-25.5
1301	ok	0.12	9.82e-02	5.28e-02	5.7	5.7	3.9	3.9	-101.6	-87.4	40.8	151.1	26.9	-37.1
1302	ok	0.12	9.88e-02	5.32e-02	5.7	5.7	3.9	3.9	-103.3	-54.3	11.4	161.6	35.6	-41.1
1303	ok	0.12	0.2	4.49e-02	5.7	5.7	3.9	3.9	-65.5	-22.8	81.6	-2.7	-7.5	-29.6
1304	ok	0.12	6.92e-02	4.51e-02	5.7	5.7	3.9	3.9	-127.8	-43.9	16.7	33.1	1.9	11.1
1305	ok	0.12	6.20e-02	4.51e-02	5.7	5.7	3.9	3.9	-123.0	-43.1	-26.1	7.9	-2.1	8.6
1306	ok	0.12	7.98e-02	5.11e-02	5.7	5.7	3.9	3.9	-132.6	-48.9	35.5	58.3	4.6	7.8
1307	ok	0.12	8.88e-02	5.75e-02	5.7	5.7	3.9	3.9	-131.9	-60.5	57.3	83.8	7.3	2.4
1308	ok	0.12	9.47e-02	6.04e-02	5.7	5.7	3.9	3.9	-122.5	-79.0	66.9	107.8	11.2	-7.1
1309	ok	0.12	9.60e-02	5.69e-02	5.7	5.7	3.9	3.9	-112.1	-90.9	60.2	127.4	18.7	-19.3
1310	ok	0.12	9.41e-02	4.94e-02	5.7	5.7	3.9	3.9	-102.2	-82.8	45.6	144.3	29.5	-30.7



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
1311	ok	0.12	0.2	5.62e-02	5.7	5.7	3.9	3.9	-93.5	-48.3	17.7	162.1	39.2	-38.1
1312	ok	0.12	0.2	4.34e-02	5.7	5.7	3.9	3.9	-68.1	-13.8	78.9	-1.9	-9.6	-32.6
1313	ok	0.12	7.32e-02	5.08e-02	5.7	5.7	3.9	3.9	-139.0	-63.8	26.5	31.0	2.9	9.6
1314	ok	0.12	6.54e-02	4.68e-02	5.7	5.7	3.9	3.9	-132.1	-53.6	18.1	8.9	5.81e-03	14.1
1315	ok	0.12	8.33e-02	5.73e-02	5.7	5.7	3.9	3.9	-145.9	-68.0	43.6	53.8	5.6	6.2
1316	ok	0.12	9.06e-02	6.10e-02	5.7	5.7	3.9	3.9	-146.2	-71.8	55.2	76.4	8.6	1.2
1317	ok	0.12	9.31e-02	5.99e-02	5.7	5.7	3.9	3.9	-137.1	-77.8	54.8	97.2	13.0	-5.9
1318	ok	0.12	9.24e-02	5.45e-02	5.7	5.7	3.9	3.9	-123.4	-78.8	47.4	115.4	20.4	-14.5
1319	ok	0.12	9.13e-02	4.86e-02	5.7	5.7	3.9	3.9	-110.3	-69.3	33.7	134.1	32.0	-23.8
1320	ok	0.12	0.2	4.58e-02	5.7	5.7	3.9	3.9	-100.8	-52.3	49.5	141.5	40.3	-24.2
1321	ok	0.12	0.3	4.18e-02	5.7	5.7	3.9	3.9	-46.5	-87.0	43.0	-64.0	-14.2	-79.6
1322	ok	0.12	8.19e-02	6.05e-02	5.7	5.7	3.9	3.9	-158.9	-83.1	38.2	28.5	4.2	8.3
1323	ok	0.12	7.26e-02	5.55e-02	5.7	5.7	3.9	3.9	-151.8	-69.0	28.8	8.6	1.5	12.8
1324	ok	0.12	9.05e-02	6.75e-02	5.7	5.7	3.9	3.9	-171.2	-80.0	52.4	49.6	6.4	4.7
1325	ok	0.12	9.55e-02	6.79e-02	5.7	5.7	3.9	3.9	-173.3	-73.5	53.2	70.4	8.7	0.4
1326	ok	0.12	9.50e-02	6.30e-02	5.7	5.7	3.9	3.9	-161.0	-73.3	44.5	89.5	12.1	-4.9
1327	ok	0.12	9.14e-02	5.54e-02	5.7	5.7	3.9	3.9	-142.0	-68.1	35.8	105.7	17.7	-11.0
1328	ok	0.12	8.63e-02	4.64e-02	5.7	5.7	3.9	3.9	-122.8	-58.0	27.4	123.8	24.6	-18.9
1329	ok	0.12	8.75e-02	4.63e-02	5.7	5.7	3.9	3.9	-90.4	-47.4	-34.9	135.9	36.4	-34.8
1330	ok	0.12	0.2	4.59e-02	5.7	5.7	3.9	3.9	-46.7	-92.1	-52.5	-60.3	-20.2	-86.2
1331	ok	0.12	9.50e-02	7.66e-02	5.7	5.7	3.9	3.9	-192.5	-106.3	57.1	25.4	5.5	6.6
1332	ok	0.12	8.21e-02	6.74e-02	5.7	5.7	3.9	3.9	-183.5	-85.0	36.0	7.7	3.1	11.9
1333	ok	0.12	0.1	8.83e-02	5.7	5.7	3.9	3.9	-225.4	-83.4	71.8	45.0	7.5	2.7
1334	ok	0.12	0.1	8.13e-02	5.7	5.7	3.9	3.9	-223.4	-59.7	47.3	65.6	8.7	-1.2
1335	ok	0.12	0.1	7.13e-02	5.7	5.7	3.9	3.9	-198.9	-67.2	33.8	84.0	9.6	-5.6
1336	ok	0.12	9.46e-02	6.16e-02	5.7	5.7	3.9	3.9	-175.8	-56.2	18.7	98.1	12.5	-9.1
1337	ok	0.12	8.64e-02	5.18e-02	5.7	5.7	3.9	3.9	-150.1	-40.5	-0.4	106.8	17.1	-18.2
1338	ok	0.12	8.09e-02	4.97e-02	5.7	5.7	3.9	3.9	-103.4	-47.0	-60.4	112.8	32.4	-36.7
1339	ok	0.12	0.2	5.25e-02	5.7	5.7	3.9	3.9	-67.2	-33.1	-97.8	3.9	19.1	-38.0
1340	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-271.6	-162.0	106.5	21.0	6.4	4.6
1341	ok	0.12	9.83e-02	9.43e-02	5.7	5.7	3.9	3.9	-256.4	-73.3	52.1	5.6	4.5	12.0
1342	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-429.2	-48.0	175.6	35.0	8.7	-0.9
1343	ok	0.12	0.1	9.41e-02	5.7	5.7	3.9	3.9	-254.7	-27.6	-18.4	110.8	10.9	-2.1
1344	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-309.1	-63.7	58.0	83.3	8.1	-15.1
1345	ok	0.12	0.1	7.84e-02	5.7	5.7	3.9	3.9	-127.1	-90.6	-30.1	192.0	-32.9	23.8
1346	ok	0.12	0.1	7.06e-02	5.7	5.7	3.9	3.9	-186.9	-7.4	-46.3	90.5	15.3	-13.2
1347	ok	0.12	0.1	6.46e-02	5.7	5.7	3.9	3.9	-113.9	-37.7	-102.7	86.2	31.8	-34.9
1348	ok	0.12	0.2	6.33e-02	5.7	5.7	3.9	3.9	-42.2	-102.7	6.4	-77.6	89.6	-118.0
1349	ok	0.12	0.2	0.3	5.7	5.7	3.9	3.9	-814.2	-357.2	257.7	10.6	-1.1	-7.4
1350	ok	0.13	0.8	8.18e-02	5.7	5.7	5.4	5.6	-236.6	257.1	-26.5	58.7	10.2	12.8
1351	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-460.2	-163.0	130.3	61.9	19.3	-23.5
1352	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-282.5	80.9	-46.3	82.1	-8.1	-2.6
1353	ok	0.12	0.4	0.2	5.7	5.7	3.9	3.9	-140.7	-165.7	-116.2	182.0	-0.4	153.6
1354	ok	0.12	0.3	7.10e-02	5.7	5.7	3.9	3.9	-138.1	1.0	-116.6	69.7	18.2	-13.2
1355	ok	0.12	0.2	7.52e-02	5.7	5.7	3.9	3.9	-118.7	-30.5	-133.7	80.2	19.6	-19.3
1356	ok	0.12	0.3	7.88e-02	5.7	5.7	3.9	3.9	-80.2	-113.9	125.1	-3.1	-14.8	-26.0
1357	ok	0.12	0.1	9.73e-02	5.7	5.7	3.9	3.9	-283.5	-1.1	0.6	70.2	-0.7	8.0
1358	ok	0.12	0.1	8.33e-02	5.7	5.7	3.9	3.9	-241.4	-1.1	-8.01e-02	70.2	-0.7	3.0
1359	ok	0.12	0.1	9.95e-02	5.7	5.7	3.9	3.9	-287.4	0.3	4.4	124.2	5.78e-02	7.1
1360	ok	0.12	0.1	8.16e-02	5.7	5.7	3.9	3.9	-226.7	-0.2	1.1	124.2	-0.1	1.4
1361	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-298.1	-0.2	4.9	179.1	7.40e-03	7.9
1362	ok	0.12	0.1	8.03e-02	5.7	5.7	3.9	3.9	-208.0	-1.2	0.6	179.7	0.7	0.5
1363	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-308.8	14.9	-19.6	225.4	-4.1	27.9
1364	ok	0.12	0.2	7.90e-02	5.7	5.7	3.9	3.9	-192.1	7.9	25.2	243.6	-1.0	-13.8
1365	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-322.0	-62.1	79.0	324.6	2.9	-40.5
1366	ok	0.12	0.3	8.72e-02	5.7	5.7	3.9	3.9	-178.9	-50.1	-73.4	254.7	-0.7	23.8
1367	ok	0.12	0.3	5.69e-02	5.7	5.7	3.9	3.9	-136.4	-5.5	57.0	126.7	25.1	-35.4
1368	ok	0.12	0.2	4.64e-02	5.7	5.7	3.9	3.9	-120.0	-29.8	-4.3	124.5	21.7	-26.6
1369	ok	0.12	0.2	5.78e-02	5.7	5.7	3.9	3.9	-73.0	-48.8	49.8	120.0	28.5	-33.9
1370	ok	0.12	9.53e-02	4.60e-02	5.7	5.7	3.9	3.9	-67.8	-34.4	5.9	120.6	31.9	-34.7
1371	ok	0.12	0.2	7.58e-02	5.7	5.7	3.9	3.9	-70.2	-102.9	127.3	-1.0	-15.1	-30.4
1372	ok	0.12	0.3	7.96e-02	5.7	5.7	3.9	3.9	-68.7	-94.0	-143.9	-0.2	6.3	5.1
1373	ok	0.12	0.1	8.16e-02	5.7	5.7	3.9	3.9	-237.5	-1.0	-4.4	77.5	-0.8	-0.5
1374	ok	0.12	0.1	9.41e-02	5.7	5.7	3.9	3.9	-266.9	0.2	-6.5	77.5	0.2	-6.9
1375	ok	0.12	0.1	7.67e-02	5.7	5.7	3.9	3.9	-208.8	0.1	-3.2	139.7	0.1	-1.56e-02
1376	ok	0.12	0.1	9.95e-02	5.7	5.7	3.9	3.9	-287.4	0.4	-6.5	139.7	0.1	-6.6
1377	ok	0.12	0.1	7.21e-02	5.7	5.7	3.9	3.9	-183.1	-1.7	-2.7	202.0	0.4	0.8
1378	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-307.9	0.2	-7.0	201.9	0.5	-7.4
1379	ok	0.12	0.2	6.82e-02	5.7	5.7	3.9	3.9	-157.4	7.9	-29.7	266.6	-3.0	19.2
1380	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-328.5	21.7	20.1	261.8	-1.7	-27.1



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
1381	ok	0.12	0.2	7.59e-02	5.7	5.7	3.9	3.9	-138.1	-55.5	50.9	254.7	-10.1	-66.5
1382	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-351.4	-75.0	-84.1	336.4	-3.0	34.4
1383	ok	0.12	0.2	4.34e-02	5.7	5.7	3.9	3.9	-111.9	-43.0	-1.9	141.3	24.4	-0.1
1384	ok	0.12	0.3	5.63e-02	5.7	5.7	3.9	3.9	-135.0	-12.0	-59.9	134.9	21.6	11.6
1385	ok	0.12	0.1	5.10e-02	5.7	5.7	3.9	3.9	-89.8	-55.5	-52.2	132.6	26.9	-2.7
1386	ok	0.12	0.2	5.87e-02	5.7	5.7	3.9	3.9	-89.2	-52.7	-41.8	121.7	25.6	7.8
1387	ok	0.12	0.3	8.15e-02	5.7	5.7	3.9	3.9	-83.3	-102.4	-138.3	-0.3	2.1	-2.4
1388	ok	0.12	0.3	5.84e-02	5.7	5.7	3.9	3.9	-61.2	-25.4	-122.2	2.2	19.0	-1.5
1389	ok	0.12	0.2	0.3	5.7	5.7	3.9	3.9	-837.7	-362.7	-268.4	-10.7	9.5	21.8
1390	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-286.1	-132.2	-82.9	27.2	15.6	-1.6
1391	ok	0.12	0.1	9.80e-02	5.7	5.7	3.9	3.9	-281.7	-87.2	25.8	-10.9	10.2	-13.0
1392	ok	0.13	0.8	0.1	5.9	5.7	5.8	6.0	-96.3	446.4	49.4	38.1	38.9	-37.6
1393	ok	0.12	0.1	0.2	5.7	5.7	3.9	3.9	-417.5	-85.7	-180.1	67.1	21.2	20.2
1394	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-502.4	-201.2	-154.7	156.5	49.1	70.8
1395	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-259.3	-22.0	-33.0	149.4	13.0	24.3
1396	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-285.0	87.6	38.9	214.0	-16.0	16.3
1397	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-295.0	-88.2	-114.2	212.1	13.3	41.5
1398	ok	0.12	0.5	0.1	5.7	5.7	3.9	3.9	-222.8	16.7	35.7	308.1	-20.0	-90.2
1399	ok	0.12	0.2	7.69e-02	5.7	5.7	3.9	3.9	-215.6	-37.1	-36.2	275.3	6.2	2.3
1400	ok	0.12	0.3	6.02e-02	5.7	5.7	3.9	3.9	-126.5	14.6	89.1	181.2	31.0	-42.3
1401	ok	0.12	0.1	6.41e-02	5.7	5.7	3.9	3.9	-162.9	-28.8	18.0	232.8	36.4	-18.6
1402	ok	0.12	0.2	6.92e-02	5.7	5.7	3.9	3.9	-71.1	-44.4	128.9	197.4	54.8	-14.4
1403	ok	0.12	0.2	6.53e-02	5.7	5.7	3.9	3.9	-106.0	-45.6	106.8	239.7	55.2	-5.5
1404	ok	0.12	0.2	9.13e-02	5.7	5.7	3.9	3.9	-63.9	-107.9	171.7	2.8	-1.6	-5.9
1405	ok	0.12	0.3	7.41e-02	5.7	5.7	3.9	3.9	-69.1	-51.9	150.3	-2.5	10.6	-6.5
1406	ok	0.12	8.78e-02	6.84e-02	5.7	5.7	3.9	3.9	-191.2	-61.4	-32.2	42.5	9.3	-6.6
1407	ok	0.12	7.91e-02	6.45e-02	5.7	5.7	3.9	3.9	-179.2	-47.2	33.6	-0.4	3.0	-8.1
1408	ok	0.12	0.1	8.56e-02	5.7	5.7	3.9	3.9	-207.9	-50.5	-69.3	93.4	10.2	2.3
1409	ok	0.12	0.1	9.06e-02	5.7	5.7	3.9	3.9	-172.7	-48.8	-134.4	140.6	6.9	18.6
1410	ok	0.12	0.1	9.05e-02	5.7	5.7	3.9	3.9	-205.8	-76.7	-97.4	199.6	5.5	11.7
1411	ok	0.12	0.1	7.42e-02	5.7	5.7	3.9	3.9	-173.4	-88.0	-62.8	225.1	14.6	9.2
1412	ok	0.12	0.1	5.26e-02	5.7	5.7	3.9	3.9	-147.1	-68.7	-6.7	238.0	38.3	3.5
1413	ok	0.12	0.1	5.78e-02	5.7	5.7	3.9	3.9	-123.2	-46.8	31.3	250.1	56.5	7.3
1414	ok	0.12	0.3	6.06e-02	5.7	5.7	3.9	3.9	-69.0	-30.3	121.7	-3.8	1.5	-11.0
1415	ok	0.12	7.33e-02	4.69e-02	5.7	5.7	3.9	3.9	-129.1	-16.0	-9.3	49.6	3.8	-15.4
1416	ok	0.12	7.12e-02	5.74e-02	5.7	5.7	3.9	3.9	-194.1	-3.7	59.4	-10.4	1.7	-19.9
1417	ok	0.12	9.83e-02	5.58e-02	5.7	5.7	3.9	3.9	-151.3	-14.7	-39.3	99.1	5.0	-11.1
1418	ok	0.12	0.1	7.37e-02	5.7	5.7	3.9	3.9	-187.9	-22.1	-69.9	153.0	5.6	-6.1
1419	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-287.0	-99.4	-180.1	232.8	9.2	7.4
1420	ok	0.12	0.3	9.75e-02	5.7	5.7	3.9	3.9	-195.7	-152.5	-102.3	242.6	10.4	25.1
1421	ok	0.12	0.1	6.54e-02	5.7	5.7	3.9	3.9	-196.8	-143.5	-18.1	212.1	37.8	37.6
1422	ok	0.12	0.1	5.88e-02	5.7	5.7	3.9	3.9	-145.9	-53.7	0.4	226.2	52.2	12.8
1423	ok	0.12	0.3	4.54e-02	5.7	5.7	3.9	3.9	-59.5	56.8	66.2	0.9	-5.3	-5.2
1424	ok	0.12	0.1	2.51e-02	5.7	5.7	3.9	3.9	-24.9	3.3	-0.4	52.4	0.2	-13.3
1425	ok	0.12	8.18e-02	2.03e-02	5.7	5.7	3.9	3.9	-48.1	2.0	-2.5	101.9	-0.3	-11.5
1426	ok	0.12	0.1	3.53e-02	5.7	5.7	3.9	3.9	-95.4	13.7	-0.3	153.5	-1.3	-10.6
1427	ok	0.12	0.5	7.24e-02	5.7	5.7	3.9	3.9	-160.5	128.3	50.3	189.3	-12.1	-28.6
1428	ok	0.12	0.2	0.3	5.7	5.7	3.9	3.9	-582.5	-273.1	-252.7	381.6	23.8	55.0
1429	ok	0.12	0.3	9.97e-02	5.7	5.7	3.9	3.9	-201.0	-100.6	-92.4	176.8	39.8	35.6
1430	ok	0.12	0.1	8.04e-02	5.7	5.7	3.9	3.9	-118.5	-60.8	-85.5	189.3	46.7	6.8
1539	ok	0.12	0.7	1.19e-02	5.7	5.7	3.9	3.9	20.0	212.6	30.6	2.4	-113.7	0.1
1540	ok	0.12	0.4	5.09e-03	5.7	5.7	3.9	3.9	22.0	55.9	50.4	53.2	-40.2	-28.5
1541	ok	0.12	0.3	2.18e-02	5.7	5.7	3.9	3.9	53.2	1.2	4.7	-2.2	-112.0	-2.3
1542	ok	0.13	1.0	7.85e-04	5.7	5.7	4.0	3.9	18.6	268.1	38.1	-26.2	-325.0	4.7
1543	ok	0.12	0.4	1.32e-03	5.7	5.7	3.9	3.9	7.3	155.7	-1.3	-1.3	-8.7	5.4
1544	ok	0.12	0.3	1.38e-02	5.7	5.7	3.9	3.9	-12.1	70.9	55.2	6.5	-5.2	4.1
1545	ok	0.12	0.4	2.11e-03	5.7	5.7	3.9	3.9	5.3	107.3	17.3	-0.9	-61.7	-0.3
1546	ok	0.12	0.6	2.48e-03	5.7	5.7	3.9	3.9	-4.3	148.0	26.1	-1.2	-157.2	-3.6
1547	ok	0.12	0.5	4.91e-03	5.7	5.7	3.9	3.9	82.7	113.0	-36.4	-2.9	-0.3	2.3
1548	ok	0.12	0.3	4.79e-02	5.7	5.7	3.9	3.9	-38.5	78.7	57.9	8.6	-3.8	12.8
1549	ok	0.12	0.7	1.70e-02	5.7	5.7	3.9	3.9	-49.0	201.0	-12.7	-0.4	-31.2	-2.2
1550	ok	0.12	0.3	1.32e-02	5.7	5.7	3.9	3.9	-5.8	81.1	10.8	-2.0	1.9	8.1
1551	ok	0.12	0.1	0.2	5.7	5.7	3.9	3.9	-505.6	-181.3	144.2	14.4	-19.2	20.5
1552	ok	0.12	0.4	3.00e-02	5.7	5.7	3.9	3.9	-76.5	160.3	24.9	15.2	1.0	15.4
1553	ok	0.13	0.9	0.0	5.7	5.8	4.0	4.1	342.5	180.6	110.3	6.4	17.5	19.7
1554	ok	0.12	0.2	2.35e-02	5.7	5.7	3.9	3.9	-15.3	32.7	-64.5	-2.5	-2.9	3.5
1555	ok	0.14	0.8	0.0	6.9	7.2	5.2	5.5	435.0	253.8	128.4	38.1	10.3	21.0
1556	ok	0.12	0.2	3.07e-02	5.7	5.7	3.9	3.9	23.8	12.1	40.5	66.8	11.6	5.3
1557	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-413.1	-267.7	162.3	-8.9	-9.9	13.8
1558	ok	0.13	0.7	4.40e-03	5.9	5.8	5.4	5.4	-5.0	410.1	-45.5	5.48e-02	2.1	8.2



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
1559	ok	0.12	0.3	2.62e-02	5.7	5.7	3.9	3.9	-71.2	79.9	-27.6	-6.8	3.2	7.8
1560	ok	0.12	0.4	2.74e-02	5.7	5.7	3.9	3.9	20.3	-27.1	73.8	60.2	11.2	3.6
1561	ok	0.12	0.1	7.19e-02	5.7	5.7	3.9	3.9	77.4	-195.2	2.4	1.1	6.6	6.1
...														
2057	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-113.0	-107.0	191.2	2.6	0.3	13.1
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
		0.15	0.99	0.48	7.70	9.09	6.00	7.37	488.46	461.87	353.04	904.07	406.47	187.48

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
2	ok	0.15						
6	ok	0.06						
264	ok	0.15						
265	ok	0.15						
267	ok	0.22						
280	ok	0.09						
281	ok	0.19						
282	ok	0.14						
289	ok	0.22						
290	ok	0.20						
291	ok	0.35						
298	ok	0.20						
299	ok	0.22						
300	ok	0.15						
307	ok	0.21						
308	ok	0.13						
309	ok	0.24						
316	ok	0.14						
317	ok	0.24						
318	ok	0.13						
325	ok	0.24						
326	ok	0.15						
327	ok	0.20						
334	ok	0.17						
335	ok	0.18						
336	ok	0.21						
343	ok	0.28						
344	ok	0.20						
345	ok	0.21						
352	ok	0.15						
353	ok	0.25						
354	ok	0.16						
361	ok	0.19						
362	ok	0.08						
363	ok	0.10						
370	ok	0.16						
371	ok	0.19						
372	ok	0.15						
379	ok	0.20						
380	ok	0.15						
381	ok	0.14						
1053	ok	0.29						
1054	ok	0.39						
1057	ok	0.51						
1059	ok	0.63						
1061	ok	0.95						
1063	ok	1.90						
1065	ok	3.59						
1067	ok	3.58						
1069	ok	2.39						
1206	ok	0.19						
1207	ok	0.54						
1208	ok	0.38						
1209	ok	0.10						
1210	ok	0.44						
1211	ok	0.37						
1212	ok	1.02						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
1213	ok	1.02						
1214	ok	1.45						
1215	ok	1.45						
1216	ok	3.10						
1217	ok	1.76						
1218	ok	3.34						
1219	ok	4.07						
1220	ok Av	6.77	0.15	0.23	4.2	6.6	63.0	97.5
1221	ok Av	8.56	0.15	0.31	4.2	8.9	63.0	132.2
1222	ok	3.75						
1223	ok	4.76						
1224	ok	0.39						
1225	ok	0.29						
1226	ok	0.51						
1227	ok	0.63						
1228	ok	0.95						
1229	ok	1.90						
1230	ok	4.07						
1231	ok Av	8.56	0.13	0.31	3.9	8.9	57.6	132.2
1232	ok	4.76						
1233	ok	0.10						
1234	ok	0.06						
1235	ok	0.08						
1236	ok	0.08						
1237	ok	0.09						
1238	ok	0.09						
1239	ok	0.07						
1240	ok	0.08						
1241	ok	0.22						
1242	ok	1.80						
1243	ok	0.29						
1244	ok	0.21						
1245	ok	0.38						
1246	ok	0.41						
1247	ok	0.19						
1248	ok	0.22						
1249	ok	0.18						
1250	ok	0.20						
1251	ok	0.22						
1252	ok	0.22						
1253	ok	0.35						
1254	ok	0.22						
1255	ok	0.20						
1256	ok	0.12						
1257	ok	0.23						
1258	ok	0.23						
1259	ok	0.25						
1260	ok	0.26						
1261	ok	0.99						
1262	ok	2.00						
1263	ok	0.52						
1264	ok	0.27						
1265	ok	0.27						
1266	ok	0.30						
1267	ok	0.30						
1268	ok	0.30						
1269	ok	0.29						
1270	ok	0.99						
1271	ok	0.52						
1272	ok	0.27						
1273	ok	0.27						
1274	ok	0.30						
1275	ok	0.30						
1276	ok	0.30						
1277	ok	1.12						
1278	ok	0.06						
1279	ok	0.08						
1280	ok	0.08						
1281	ok	0.06						
1282	ok	0.07						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
1283	ok	0.06						
1284	ok	0.06						
1285	ok	0.10						
1286	ok	0.10						
1287	ok	0.21						
1288	ok	0.10						
1289	ok	0.15						
1290	ok	0.08						
1291	ok	0.16						
1292	ok	0.19						
1293	ok	0.23						
1294	ok	0.33						
1295	ok	0.08						
1296	ok	0.08						
1297	ok	0.07						
1298	ok	0.06						
1299	ok	0.07						
1300	ok	0.08						
1301	ok	0.08						
1302	ok	0.20						
1303	ok	0.33						
1304	ok	0.08						
1305	ok	0.08						
1306	ok	0.07						
1307	ok	0.06						
1308	ok	0.06						
1309	ok	0.09						
1310	ok	0.09						
1311	ok	0.21						
1312	ok	0.39						
1313	ok	0.08						
1314	ok	0.08						
1315	ok	0.08						
1316	ok	0.07						
1317	ok	0.06						
1318	ok	0.09						
1319	ok	0.09						
1320	ok	0.32						
1321	ok	0.39						
1322	ok	0.09						
1323	ok	0.09						
1324	ok	0.09						
1325	ok	0.08						
1326	ok	0.07						
1327	ok	0.08						
1328	ok	0.09						
1329	ok	0.32						
1330	ok	0.59						
1331	ok	0.09						
1332	ok	0.09						
1333	ok	0.11						
1334	ok	0.12						
1335	ok	0.11						
1336	ok	0.08						
1337	ok	0.08						
1338	ok	0.34						
1339	ok	0.59						
1340	ok	0.24						
1341	ok	0.09						
1342	ok	0.25						
1343	ok	0.26						
1344	ok	0.42						
1345	ok	0.43						
1346	ok	0.14						
1347	ok	0.39						
1348	ok	1.09						
1349	ok	0.27						
1350	ok	0.30						
1351	ok	0.26						
1352	ok	0.42						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
1353	ok	1.48						
1354	ok	0.63						
1355	ok	0.39						
1356	ok	0.22						
1357	ok	0.08						
1358	ok	0.08						
1359	ok	0.08						
1360	ok	0.08						
1361	ok	0.07						
1362	ok	0.07						
1363	ok	0.06						
1364	ok	0.06						
1365	ok	0.25						
1366	ok	0.24						
1367	ok	0.15						
1368	ok	0.15						
1369	ok	0.16						
1370	ok	0.13						
1371	ok	0.22						
1372	ok	0.14						
1373	ok	0.09						
1374	ok	0.09						
1375	ok	0.08						
1376	ok	0.08						
1377	ok	0.08						
1378	ok	0.08						
1379	ok	0.07						
1380	ok	0.07						
1381	ok	0.20						
1382	ok	0.20						
1383	ok	0.16						
1384	ok	0.16						
1385	ok	0.16						
1386	ok	0.14						
1387	ok	0.16						
1388	ok	0.24						
1389	ok	0.09						
1390	ok	0.09						
1391	ok	0.08						
1392	ok	0.12						
1393	ok	0.10						
1394	ok	0.12						
1395	ok	0.10						
1396	ok	0.12						
1397	ok	0.12						
1398	ok	0.28						
1399	ok	0.12						
1400	ok	0.23						
1401	ok	0.09						
1402	ok	0.26						
1403	ok	0.28						
1404	ok	0.31						
1405	ok	0.31						
1406	ok	0.08						
1407	ok	0.08						
1408	ok	0.07						
1409	ok	0.07						
1410	ok	0.08						
1411	ok	0.09						
1412	ok	0.09						
1413	ok	0.28						
1414	ok	0.28						
1415	ok	0.08						
1416	ok	0.08						
1417	ok	0.07						
1418	ok	0.08						
1419	ok	0.10						
1420	ok	0.10						
1421	ok	0.09						
1422	ok	0.26						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
1423	ok	0.27						
1424	ok	0.07						
1425	ok	0.07						
1426	ok	0.08						
1427	ok	0.10						
1428	ok	0.28						
1429	ok	0.21						
1430	ok	0.23						
1539	ok	0.54						
1540	ok	0.19						
1541	ok	0.44						
1542	ok	0.78						
1543	ok	0.13						
1544	ok	0.14						
1545	ok	0.21						
1546	ok	0.36						
1547	ok	0.45						
1548	ok	0.18						
1549	ok	0.20						
1550	ok	0.36						
1551	ok	0.45						
1552	ok	0.18						
1553	ok	0.30						
1554	ok	0.27						
1555	ok	0.37						
1556	ok	0.13						
1557	ok	0.40						
1558	ok	0.30						
1559	ok	0.37						
1560	ok	0.13						
1561	ok	0.40						
...								
2057	ok	0.08						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		8.56	0.15	0.31	4.25	8.91	63.00	132.18

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
3	20.00	3	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	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	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-287.3	-3.5	-7.1	197.8	126.0	8.5
12	ok	0.12	0.1	1.23e-02	5.7	5.7	3.9	3.9	28.9	-3.5	-13.4	38.0	7.1	-65.5
14	ok	0.12	0.2	3.27e-03	5.7	5.7	3.9	3.9	-3.4	3.1	5.1	36.1	-32.9	-48.1
263	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-272.4	-24.4	-7.0	168.0	87.9	9.1
266	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-292.6	-4.0	13.0	158.4	165.7	36.8
268	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-312.4	19.8	2.7	150.0	209.3	37.8
269	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-335.4	55.1	2.4	138.1	170.9	65.2
270	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-333.1	6.0	-95.2	79.8	-35.5	-37.3
271	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-299.1	4.1	2.6	88.0	42.2	-33.3
272	ok	0.12	0.3	0.1	5.7	5.7	3.9	3.9	-361.3	-28.9	-10.4	102.4	126.6	1.3
273	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-318.0	-46.6	28.4	112.7	199.3	36.7
274	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-401.3	-78.3	-125.0	94.4	171.9	-32.1
275	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-349.2	-116.7	50.2	111.6	206.9	32.8
276	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-591.6	-126.3	-132.7	125.0	363.6	-87.0
277	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-326.3	-195.9	70.5	112.0	203.9	30.8
278	ok	0.12	0.6	0.4	5.7	5.7	3.9	3.9	-56.0	-811.3	-551.4	100.2	698.8	-24.3
279	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-251.4	-246.6	18.9	95.9	182.5	24.6
283	ok	0.12	0.2	7.33e-02	5.7	5.7	3.9	3.9	-189.0	62.3	-55.1	82.0	136.1	76.6
284	ok	0.12	0.1	7.55e-02	5.7	5.7	3.9	3.9	-217.2	-31.6	19.5	90.6	129.8	51.2
285	ok	0.12	0.1	9.04e-02	5.7	5.7	3.9	3.9	-244.2	-71.0	54.9	90.2	130.6	41.1
286	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-260.6	-115.6	78.1	88.9	130.7	32.6
287	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-279.4	-159.6	94.9	83.5	127.8	23.7
288	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-274.8	-208.5	91.0	71.2	123.2	17.2
292	ok	0.12	0.2	6.04e-02	5.7	5.7	3.9	3.9	-46.4	-23.3	52.6	56.7	80.0	55.5
293	ok	0.12	0.1	6.77e-02	5.7	5.7	3.9	3.9	-139.3	-67.6	68.3	68.7	77.4	50.5



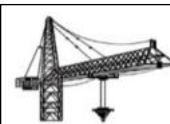
Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
294	ok	0.12	0.1	8.11e-02	5.7	5.7	3.9	3.9	-178.5	-92.8	83.2	68.5	74.6	41.3
295	ok	0.12	0.1	8.96e-02	5.7	5.7	3.9	3.9	-190.9	-126.2	92.7	66.0	73.4	31.7
296	ok	0.12	0.1	9.36e-02	5.7	5.7	3.9	3.9	-189.4	-160.2	91.3	61.7	71.2	22.2
297	ok	0.12	0.1	9.13e-02	5.7	5.7	3.9	3.9	-177.6	-186.7	77.1	56.6	67.9	15.6
301	ok	0.12	0.4	8.75e-02	5.7	5.7	3.9	3.9	-121.7	35.0	152.5	47.6	37.0	56.1
302	ok	0.12	0.2	7.86e-02	5.7	5.7	3.9	3.9	-141.2	-56.0	114.8	53.0	31.7	50.4
303	ok	0.12	0.1	7.81e-02	5.7	5.7	3.9	3.9	-144.1	-92.4	98.7	48.6	31.1	41.2
304	ok	0.12	0.1	7.95e-02	5.7	5.7	3.9	3.9	-142.0	-122.8	93.8	44.8	29.2	30.6
305	ok	0.12	0.1	7.91e-02	5.7	5.7	3.9	3.9	-132.4	-149.1	83.4	41.8	26.2	20.3
306	ok	0.12	0.1	7.45e-02	5.7	5.7	3.9	3.9	-119.2	-164.3	64.8	41.0	22.0	12.0
310	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-222.6	-16.9	77.9	53.5	3.2	58.1
311	ok	0.12	0.1	7.23e-02	5.7	5.7	3.9	3.9	-153.8	-44.6	93.0	36.3	4.1	52.4
312	ok	0.12	0.1	6.91e-02	5.7	5.7	3.9	3.9	-125.6	-84.5	90.3	28.7	0.3	40.0
313	ok	0.12	0.1	6.91e-02	5.7	5.7	3.9	3.9	-108.5	-114.2	84.9	24.5	-4.5	28.1
314	ok	0.12	0.1	6.72e-02	5.7	5.7	3.9	3.9	-94.6	-134.0	73.0	22.7	-9.3	17.0
315	ok	0.12	0.1	6.18e-02	5.7	5.7	3.9	3.9	-81.6	-141.8	54.3	23.8	-14.5	7.2
319	ok	0.12	7.93e-02	5.11e-02	5.7	5.7	3.9	3.9	-131.7	-32.2	15.2	82.1	36.7	22.3
320	ok	0.12	9.03e-02	5.18e-02	5.7	5.7	3.9	3.9	-114.7	-60.3	54.7	19.5	-13.1	47.8
321	ok	0.12	0.1	5.77e-02	5.7	5.7	3.9	3.9	-94.7	-88.2	72.8	9.4	-22.6	35.3
322	ok	0.12	0.1	5.93e-02	5.7	5.7	3.9	3.9	-80.8	-107.2	72.8	5.3	-30.4	23.6
323	ok	0.12	0.1	5.71e-02	5.7	5.7	3.9	3.9	-68.0	-119.1	62.4	4.3	-36.9	12.4
324	ok	0.12	0.1	5.16e-02	5.7	5.7	3.9	3.9	-56.3	-121.3	45.3	6.3	-42.7	1.8
328	ok	0.12	0.1	4.10e-02	5.7	5.7	3.9	3.9	-19.5	-65.6	19.0	43.6	33.7	26.2
329	ok	0.12	0.1	4.92e-02	5.7	5.7	3.9	3.9	-56.9	-95.2	59.8	1.8	-33.0	39.3
330	ok	0.12	0.1	5.27e-02	5.7	5.7	3.9	3.9	-64.3	-94.5	68.1	-7.8	-42.4	28.6
331	ok	0.12	0.1	5.24e-02	5.7	5.7	3.9	3.9	-59.1	-100.4	61.8	-12.3	-51.0	17.7
332	ok	0.12	0.1	4.90e-02	5.7	5.7	3.9	3.9	-49.2	-105.1	50.9	-12.9	-58.3	6.9
333	ok	0.12	0.1	4.31e-02	5.7	5.7	3.9	3.9	-38.9	-103.0	35.2	-10.3	-64.5	-3.5
337	ok	0.12	0.2	7.75e-02	5.7	5.7	3.9	3.9	-24.3	-145.6	118.3	-5.8	-52.6	54.5
338	ok	0.12	0.1	5.68e-02	5.7	5.7	3.9	3.9	-49.9	-96.2	84.5	-14.2	-52.1	33.4
339	ok	0.12	0.1	5.11e-02	5.7	5.7	3.9	3.9	-53.3	-89.5	70.8	-23.7	-58.9	22.2
340	ok	0.12	0.1	4.69e-02	5.7	5.7	3.9	3.9	-47.2	-90.8	59.4	-28.3	-67.0	11.4
341	ok	0.12	0.1	4.19e-02	5.7	5.7	3.9	3.9	-37.4	-91.1	43.5	-28.7	-74.6	1.0
342	ok	0.12	0.1	3.57e-02	5.7	5.7	3.9	3.9	-27.6	-86.5	28.4	-25.3	-80.9	-8.8
346	ok	0.12	0.1	6.88e-02	5.7	5.7	3.9	3.9	-101.2	-49.1	97.4	-19.6	-56.9	47.8
347	ok	0.12	0.1	5.35e-02	5.7	5.7	3.9	3.9	-69.3	-75.0	78.7	-30.8	-61.8	28.5
348	ok	0.12	9.93e-02	4.64e-02	5.7	5.7	3.9	3.9	-54.6	-75.0	64.9	-39.5	-69.5	16.4
349	ok	0.12	9.59e-02	4.07e-02	5.7	5.7	3.9	3.9	-40.1	-77.7	49.1	-43.4	-78.2	4.9
350	ok	0.12	9.85e-02	3.51e-02	5.7	5.7	3.9	3.9	-28.3	-76.7	35.6	-42.8	-86.1	-5.4
351	ok	0.12	0.1	2.90e-02	5.7	5.7	3.9	3.9	-17.9	-71.1	21.6	-38.3	-92.8	-14.5
355	ok	0.12	9.81e-02	5.22e-02	5.7	5.7	3.9	3.9	-132.2	-87.3	33.4	-40.7	-46.2	37.5
356	ok	0.12	9.34e-02	4.43e-02	5.7	5.7	3.9	3.9	-80.5	-62.0	54.5	-47.6	-62.6	22.1
357	ok	0.12	9.14e-02	3.87e-02	5.7	5.7	3.9	3.9	-54.8	-64.1	46.9	-54.9	-74.4	9.2
358	ok	0.12	9.07e-02	3.36e-02	5.7	5.7	3.9	3.9	-39.8	-65.9	37.5	-57.7	-84.4	-2.2
359	ok	0.12	9.03e-02	2.85e-02	5.7	5.7	3.9	3.9	-26.4	-64.4	26.5	-55.8	-93.1	-12.4
360	ok	0.12	0.1	2.31e-02	5.7	5.7	3.9	3.9	-15.7	-58.3	14.7	-49.4	-100.5	-20.9
364	ok	0.12	8.73e-02	4.34e-02	5.7	5.7	3.9	3.9	-65.2	-72.8	50.4	-46.7	-44.4	21.7
365	ok	0.12	8.38e-02	3.52e-02	5.7	5.7	3.9	3.9	-62.9	-61.8	34.5	-62.3	-61.5	11.5
366	ok	0.12	8.30e-02	3.08e-02	5.7	5.7	3.9	3.9	-47.9	-57.9	31.5	-69.2	-75.8	0.2
367	ok	0.12	8.43e-02	2.69e-02	5.7	5.7	3.9	3.9	-33.4	-57.2	25.7	-70.9	-87.0	-10.4
368	ok	0.12	8.70e-02	2.28e-02	5.7	5.7	3.9	3.9	-21.4	-54.2	17.6	-67.4	-96.1	-20.1
369	ok	0.12	0.1	1.81e-02	5.7	5.7	3.9	3.9	-11.8	-47.4	10.7	-58.8	-103.9	-28.3
373	ok	0.12	7.59e-02	3.65e-02	5.7	5.7	3.9	3.9	-54.1	-50.3	46.6	-60.2	-45.2	10.4
374	ok	0.12	7.35e-02	2.81e-02	5.7	5.7	3.9	3.9	-44.3	-53.6	30.2	-74.6	-62.0	-0.4
375	ok	0.12	7.64e-02	2.48e-02	5.7	5.7	3.9	3.9	-33.6	-53.7	24.3	-81.6	-76.0	-9.6
376	ok	0.12	7.99e-02	2.19e-02	5.7	5.7	3.9	3.9	-24.3	-51.2	17.0	-82.7	-87.0	-19.0
377	ok	0.12	8.28e-02	1.84e-02	5.7	5.7	3.9	3.9	-15.6	-46.4	13.4	-77.9	-95.6	-28.2
378	ok	0.12	0.1	1.43e-02	5.7	5.7	3.9	3.9	-6.6	-36.3	8.8	133.9	-38.2	-47.4
382	ok	0.12	5.72e-02	2.24e-02	5.7	5.7	3.9	3.9	-38.6	-30.3	27.7	-74.8	-45.1	-4.3
383	ok	0.12	6.63e-02	2.21e-02	5.7	5.7	3.9	3.9	-23.9	-46.3	22.6	-84.8	-63.4	-11.1
384	ok	0.12	7.25e-02	2.13e-02	5.7	5.7	3.9	3.9	-18.4	-48.8	17.0	-92.1	-76.1	-18.6
385	ok	0.12	7.64e-02	1.88e-02	5.7	5.7	3.9	3.9	-15.8	-46.1	12.5	-93.1	-85.6	-26.8
386	ok	0.12	8.88e-02	1.53e-02	5.7	5.7	3.9	3.9	-10.6	-39.7	6.7	-87.5	-92.4	-35.2
387	ok	0.12	0.1	1.16e-02	5.7	5.7	3.9	3.9	-0.4	-35.5	2.7	287.4	-217.8	-247.2
391	ok	0.12	7.76e-02	2.21e-02	5.7	5.7	3.9	3.9	0.7	-27.3	18.7	-73.0	-52.7	-20.5
392	ok	0.12	6.62e-02	2.20e-02	5.7	5.7	3.9	3.9	-8.2	-45.2	20.1	-92.1	-66.3	-20.1
393	ok	0.12	6.92e-02	1.99e-02	5.7	5.7	3.9	3.9	-9.5	-44.8	17.2	-101.0	-76.4	-26.1
394	ok	0.12	7.32e-02	1.66e-02	5.7	5.7	3.9	3.9	-10.8	-40.5	11.6	-102.1	-83.7	-33.0
395	ok	0.12	9.20e-02	1.28e-02	5.7	5.7	3.9	3.9	-2.0	-35.3	7.0	226.6	-136.0	-223.4
396	ok	0.12	0.1	9.41e-03	5.7	5.7	3.9	3.9	-0.4	-29.4	4.6	252.9	-122.3	-271.8



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
400	ok	0.12	0.1	3.25e-02	5.7	5.7	3.9	3.9	0.8	-65.9	48.1	-68.9	-70.0	-16.2
401	ok	0.12	6.46e-02	2.42e-02	5.7	5.7	3.9	3.9	-9.6	-40.5	29.4	-99.3	-69.6	-25.7
402	ok	0.12	6.53e-02	1.88e-02	5.7	5.7	3.9	3.9	-13.6	-38.8	23.4	-109.1	-77.5	-31.8
403	ok	0.12	6.98e-02	1.45e-02	5.7	5.7	3.9	3.9	-11.0	-33.3	11.8	-109.2	-82.7	-37.2
404	ok	0.12	9.00e-02	1.05e-02	5.7	5.7	3.9	3.9	-2.4	-29.1	9.5	196.0	-119.8	-226.7
405	ok	0.12	0.1	7.40e-03	5.7	5.7	3.9	3.9	-0.2	-24.7	4.7	202.7	-152.4	-267.7
409	ok	0.12	9.49e-02	3.21e-02	5.7	5.7	3.9	3.9	-44.7	-33.9	52.0	-91.8	-67.6	-11.5
410	ok	0.12	6.02e-02	2.25e-02	5.7	5.7	3.9	3.9	-34.0	-29.0	32.5	-112.1	-72.7	-29.9
411	ok	0.12	6.40e-02	1.65e-02	5.7	5.7	3.9	3.9	-22.6	-28.0	21.3	-116.0	-80.7	-36.5
412	ok	0.12	6.81e-02	1.19e-02	5.7	5.7	3.9	3.9	-14.8	-25.3	10.1	-113.9	-84.0	-39.6
413	ok	0.12	9.36e-02	8.29e-03	5.7	5.7	3.9	3.9	-3.5	-24.1	8.7	160.6	-141.0	-218.2
414	ok	0.12	0.1	6.47e-03	5.7	5.7	3.9	3.9	-2.8	-21.5	2.9	163.7	-142.3	-246.5
418	ok	0.12	7.94e-02	3.23e-02	5.7	5.7	3.9	3.9	-89.1	-20.2	18.6	-55.9	-42.3	8.1
419	ok	0.12	6.88e-02	1.88e-02	5.7	5.7	3.9	3.9	-44.8	-18.0	16.0	-121.0	-79.9	-37.3
420	ok	0.12	6.96e-02	1.30e-02	5.7	5.7	3.9	3.9	-25.9	-19.9	12.3	-120.8	-85.4	-40.2
421	ok	0.12	7.40e-02	9.31e-03	5.7	5.7	3.9	3.9	-11.5	-16.6	12.3	139.6	-95.1	-173.3
422	ok	0.12	0.1	6.67e-03	5.7	5.7	3.9	3.9	-4.7	-20.7	5.1	129.9	-131.0	-214.2
423	ok	0.12	0.1	5.92e-03	5.7	5.7	3.9	3.9	-3.3	-17.7	4.2	147.5	75.6	-217.9
427	ok	0.12	8.46e-02	1.71e-02	5.7	5.7	3.9	3.9	-49.5	-19.7	-1.2	-68.4	-50.6	-14.0
428	ok	0.12	7.60e-02	1.29e-02	5.7	5.7	3.9	3.9	-32.7	-19.3	1.6	-128.1	-84.2	-43.5
429	ok	0.12	7.38e-02	9.31e-03	5.7	5.7	3.9	3.9	-23.5	-17.8	1.1	-123.3	-88.9	-44.1
430	ok	0.12	9.00e-02	7.10e-03	5.7	5.7	3.9	3.9	-9.1	-19.3	6.9	114.1	61.3	-177.9
431	ok	0.12	0.1	6.23e-03	5.7	5.7	3.9	3.9	-7.0	-18.3	5.6	128.5	77.2	-190.0
432	ok	0.12	0.1	5.69e-03	5.7	5.7	3.9	3.9	-3.8	-15.7	1.6	128.9	80.5	-214.1
436	ok	0.12	8.07e-02	1.03e-02	5.7	5.7	3.9	3.9	-5.9	-16.8	7.8	104.5	18.6	-108.6
437	ok	0.12	7.52e-02	9.42e-03	5.7	5.7	3.9	3.9	-14.3	-20.6	9.8	106.8	26.6	-123.6
438	ok	0.12	7.92e-02	8.11e-03	5.7	5.7	3.9	3.9	-17.1	-16.3	10.8	122.2	44.6	-135.0
439	ok	0.12	9.89e-02	7.02e-03	5.7	5.7	3.9	3.9	-12.1	-18.0	5.3	98.3	81.5	-172.5
440	ok	0.12	0.1	6.23e-03	5.7	5.7	3.9	3.9	-11.2	-16.8	4.3	114.0	94.8	-185.5
441	ok	0.12	0.2	5.75e-03	5.7	5.7	3.9	3.9	-2.6	-18.7	-3.4	66.4	41.5	-117.2
445	ok	0.12	7.05e-02	1.87e-02	5.7	5.7	3.9	3.9	-4.3	-40.1	24.5	-131.4	-97.3	-55.2
446	ok	0.12	6.93e-02	1.11e-02	5.7	5.7	3.9	3.9	-18.3	-18.5	19.1	104.1	43.1	-111.2
447	ok	0.12	8.14e-02	8.10e-03	5.7	5.7	3.9	3.9	-19.1	-13.9	12.7	106.2	55.1	-125.7
448	ok	0.12	0.1	7.30e-03	5.7	5.7	3.9	3.9	-16.9	-10.8	8.7	106.2	66.1	-141.7
449	ok	0.12	0.1	6.56e-03	5.7	5.7	3.9	3.9	-12.1	-15.8	1.1	97.2	106.0	-186.5
450	ok	0.12	0.2	6.18e-03	5.7	5.7	3.9	3.9	-3.4	-19.9	-3.9	66.5	70.8	-127.0
454	ok	0.12	7.85e-02	1.94e-02	5.7	5.7	3.9	3.9	-39.0	3.3	23.5	-171.1	-78.3	-49.4
455	ok	0.12	7.20e-02	1.33e-02	5.7	5.7	3.9	3.9	-33.3	-9.3	17.2	81.5	54.6	-107.2
456	ok	0.12	8.62e-02	9.79e-03	5.7	5.7	3.9	3.9	-24.1	-9.8	10.9	88.5	61.8	-120.9
457	ok	0.12	0.1	8.79e-03	5.7	5.7	3.9	3.9	-20.2	-8.2	5.6	90.5	76.2	-138.2
458	ok	0.12	0.2	8.18e-03	5.7	5.7	3.9	3.9	-10.0	-17.2	-7.2	8.6	122.1	-119.4
459	ok	0.12	0.2	7.02e-03	5.7	5.7	3.9	3.9	-5.8	-21.7	-6.0	65.0	119.3	-142.5
463	ok	0.12	8.55e-02	2.41e-02	5.7	5.7	3.9	3.9	-61.1	-8.3	1.9	-176.5	-71.1	-30.6
464	ok	0.12	8.15e-02	1.59e-02	5.7	5.7	3.9	3.9	-41.6	-4.6	10.2	89.1	61.7	-103.3
465	ok	0.12	9.97e-02	1.26e-02	5.7	5.7	3.9	3.9	-32.0	-4.7	6.7	76.1	74.1	-107.5
466	ok	0.12	0.1	1.15e-02	5.7	5.7	3.9	3.9	-28.2	-2.2	-5.9	-17.6	-96.3	-30.3
467	ok	0.12	0.2	1.11e-02	5.7	5.7	3.9	3.9	-13.9	-15.2	-10.9	-30.2	125.6	-124.7
468	ok	0.12	0.2	1.39e-02	5.7	5.7	3.9	3.9	-7.6	-21.1	-11.9	46.2	125.2	-154.3
472	ok	0.12	8.81e-02	1.81e-02	5.7	5.7	3.9	3.9	-51.8	-9.7	-4.9	-200.1	-63.3	-44.3
473	ok	0.12	8.59e-02	1.67e-02	5.7	5.7	3.9	3.9	-41.9	-3.2	2.3	92.9	66.1	-87.3
474	ok	0.12	0.1	1.47e-02	5.7	5.7	3.9	3.9	-38.6	0.1	-4.8	-43.3	-87.4	-43.3
475	ok	0.12	0.1	1.38e-02	5.7	5.7	3.9	3.9	-37.5	1.2	-7.3	-14.6	-100.6	-44.8
476	ok	0.12	0.2	1.44e-02	5.7	5.7	3.9	3.9	-36.0	2.4	-8.8	10.5	-120.6	-38.2
477	ok	0.12	0.3	1.87e-02	5.7	5.7	3.9	3.9	-42.1	-3.7	4.9	26.6	-147.9	-16.8
481	ok	0.12	8.87e-02	1.60e-02	5.7	5.7	3.9	3.9	-45.9	-5.2	-4.7	-210.2	-53.1	-51.7
482	ok	0.12	8.66e-02	1.55e-02	5.7	5.7	3.9	3.9	-41.0	-0.9	-4.6	-85.7	-68.2	-48.2
483	ok	0.12	9.28e-02	1.48e-02	5.7	5.7	3.9	3.9	-41.3	1.1	-5.4	-49.2	-77.5	-57.9
484	ok	0.12	0.1	1.45e-02	5.7	5.7	3.9	3.9	-40.3	3.1	-5.9	-14.8	-92.3	-65.0
485	ok	0.12	0.2	1.50e-02	5.7	5.7	3.9	3.9	-39.3	5.0	-4.0	20.4	-118.5	-68.2
486	ok	0.12	0.3	1.62e-02	5.7	5.7	3.9	3.9	-35.1	-0.9	16.7	25.3	-83.9	-58.1
490	ok	0.12	8.85e-02	1.42e-02	5.7	5.7	3.9	3.9	-38.0	-1.6	-2.6	-136.4	-46.3	-47.6
491	ok	0.12	8.58e-02	1.38e-02	5.7	5.7	3.9	3.9	-36.4	-8.70e-02	-3.9	-96.3	-49.9	-60.6
492	ok	0.12	8.00e-02	1.35e-02	5.7	5.7	3.9	3.9	-38.1	1.0	-3.9	-58.1	-57.1	-73.6
493	ok	0.12	0.1	1.34e-02	5.7	5.7	3.9	3.9	-38.0	2.6	-2.8	-20.8	-68.9	-86.2
494	ok	0.12	0.2	1.41e-02	5.7	5.7	3.9	3.9	-33.0	4.2	4.1	66.3	-120.7	-154.4
495	ok	0.12	0.3	2.09e-02	5.7	5.7	3.9	3.9	-31.5	13.0	9.2	88.5	-244.9	-165.3
498	ok	0.12	8.89e-02	1.18e-02	5.7	5.7	3.9	3.9	-33.8	-0.7	-4.0	-147.7	-24.0	-53.4
499	ok	0.12	8.62e-02	1.17e-02	5.7	5.7	3.9	3.9	-30.8	0.3	-4.6	-107.8	-25.5	-67.4
500	ok	0.12	7.99e-02	1.16e-02	5.7	5.7	3.9	3.9	-34.3	0.7	-1.8	47.7	-25.4	-128.8
501	ok	0.12	8.80e-02	1.14e-02	5.7	5.7	3.9	3.9	-34.5	1.3	-0.7	59.5	-34.2	-150.5



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
502	ok	0.12	0.1	1.08e-02	5.7	5.7	3.9	3.9	-26.7	6.4	6.2	69.5	-105.0	-163.5
503	ok	0.12	0.2	1.73e-02	5.7	5.7	3.9	3.9	-20.6	5.6	15.1	105.8	-121.7	-187.6
506	ok	0.12	8.34e-02	8.83e-03	5.7	5.7	3.9	3.9	-27.7	-5.82e-02	-2.0	24.9	-3.5	-72.3
507	ok	0.12	7.96e-02	9.31e-03	5.7	5.7	3.9	3.9	-29.2	-0.2	-2.0	30.6	-5.7	-82.8
508	ok	0.12	7.21e-02	9.78e-03	5.7	5.7	3.9	3.9	-30.9	-0.2	-1.8	35.9	-9.5	-96.7
509	ok	0.12	5.96e-02	9.77e-03	5.7	5.7	3.9	3.9	-31.7	-0.2	-1.4	44.3	-14.0	-113.3
510	ok	0.12	8.69e-02	9.10e-03	5.7	5.7	3.9	3.9	-24.2	4.2	4.9	33.7	-26.6	-155.4
646	ok	0.12	0.2	2.01e-02	5.7	5.7	3.9	3.9	-12.7	-55.6	-2.7	-11.1	-87.3	-25.8
647	ok	0.12	1.0	8.17e-03	5.7	5.7	3.9	3.9	11.4	116.9	-3.6	26.6	-40.1	-17.4
648	ok	0.12	0.3	0.3	5.7	5.7	3.9	3.9	-616.8	-136.0	217.0	61.6	222.7	59.9
649	ok	0.22	1.0	0.2	12.6	20.4	9.8	14.0	675.2	-18.3	510.9	1058.1	561.8	462.4
650	ok	0.15	1.0	0.0	7.7	8.6	6.0	6.8	334.3	281.1	-208.8	158.6	-256.7	-203.9
651	ok	0.12	0.4	5.10e-02	5.7	5.7	3.9	3.9	41.9	-129.2	-48.8	181.2	-25.2	-74.5
652	ok	0.12	0.3	5.34e-03	5.7	5.7	3.9	3.9	15.8	1.8	1.0	114.2	3.3	-52.7
653	ok	0.12	0.2	3.53e-03	5.7	5.7	3.9	3.9	-8.5	-6.9	2.0	89.8	-6.2	-59.9
654	ok	0.12	0.1	2.56e-02	5.7	5.7	3.9	3.9	-66.2	10.2	25.9	23.9	-121.1	-17.3
655	ok	0.12	0.2	2.90e-02	5.7	5.7	3.9	3.9	-54.4	10.7	41.9	30.6	-156.4	-59.4
656	ok	0.12	0.4	2.59e-02	5.7	5.7	3.9	3.9	-5.6	63.7	9.3	-38.4	-333.2	84.4
657	ok	0.12	0.3	6.51e-03	5.7	5.7	3.9	3.9	-3.2	39.9	-11.9	-62.5	-225.4	135.5
658	ok	0.12	0.2	4.19e-03	5.7	5.7	3.9	3.9	-3.8	41.5	-7.6	-51.3	-159.7	92.6
659	ok	0.12	0.3	3.47e-03	5.7	5.7	3.9	3.9	-1.1	39.5	-2.7	-57.6	-138.4	90.0
660	ok	0.12	0.4	1.45e-03	5.7	5.7	3.9	3.9	1.8	34.8	-8.4	2.1	-26.7	3.3
661	ok	0.12	0.5	2.68e-03	5.7	5.7	3.9	3.9	1.5	43.9	-16.0	-15.7	-87.2	54.7
662	ok	0.12	0.2	2.83e-03	5.7	5.7	3.9	3.9	-2.0	48.2	-17.5	0.7	65.6	-11.2
663	ok	0.12	0.3	3.61e-03	5.7	5.7	3.9	3.9	5.3	56.3	-19.0	1.8	86.7	-7.4
664	ok	0.12	0.2	9.60e-03	5.7	5.7	3.9	3.9	3.6	-30.1	-6.5	403.2	-453.8	-236.2
665	ok	0.12	0.4	2.94e-03	5.7	5.7	3.9	3.9	2.9	70.3	-26.7	8.5	86.8	-24.4
666	ok	0.12	0.5	4.47e-03	5.7	5.7	3.9	3.9	10.2	79.9	-29.4	9.0	82.9	-22.3
667	ok	0.12	1.0	4.30e-03	5.7	5.7	3.9	3.9	0.2	93.8	-23.5	2.5	-52.1	1.6
668	ok	0.12	0.8	0.0	5.7	5.7	3.9	3.9	28.6	101.2	-38.0	2.8	89.8	-16.1
669	ok	0.12	0.4	4.27e-03	5.7	5.7	3.9	3.9	-2.8	101.0	-21.0	13.0	73.8	-32.9
670	ok	0.12	0.3	5.70e-03	5.7	5.7	3.9	3.9	-15.3	83.4	-3.4	17.6	70.6	-36.1
671	ok	0.12	0.2	1.07e-02	5.7	5.7	3.9	3.9	-12.6	16.9	6.2	29.4	76.8	-45.9
672	ok	0.12	0.2	5.28e-03	5.7	5.7	3.9	3.9	-5.5	-18.8	-0.5	310.0	161.0	-399.1
673	ok	0.12	0.5	3.19e-02	5.7	5.7	3.9	3.9	-41.3	23.1	52.3	43.7	-401.8	-37.3
674	ok	0.12	0.3	8.37e-03	5.7	5.7	3.9	3.9	5.7	-22.2	-11.8	434.3	-608.6	-200.8
675	ok	0.12	0.1	3.17e-02	5.7	5.7	3.9	3.9	-38.1	-86.7	2.2	20.3	-53.7	-19.6
676	ok	0.12	0.1	0.1	5.7	5.7	3.9	3.9	-216.0	-210.0	68.6	60.7	119.7	21.6
677	ok	0.12	0.1	8.92e-02	5.7	5.7	3.9	3.9	-227.7	-197.9	39.8	78.5	111.0	41.8
678	ok	0.12	0.2	9.97e-02	5.7	5.7	3.9	3.9	-162.2	-112.4	7.3	143.8	78.9	45.0
679	ok	0.12	0.5	0.1	5.7	5.7	3.9	3.9	-179.7	15.5	9.7	203.4	38.8	7.0
680	ok	0.12	0.6	4.43e-02	5.7	5.7	3.9	3.9	-83.3	117.0	69.4	142.7	27.0	-31.8
681	ok	0.12	0.4	2.78e-02	5.7	5.7	3.9	3.9	-33.7	101.4	84.0	117.5	30.9	-60.3
682	ok	0.12	0.4	2.84e-02	5.7	5.7	3.9	3.9	21.8	52.8	16.9	-13.9	-332.4	50.0
683	ok	0.12	0.4	5.50e-03	5.7	5.7	3.9	3.9	9.7	21.7	-28.0	24.8	78.6	-19.0
684	ok	0.12	0.3	1.66e-02	5.7	5.7	3.9	3.9	-16.8	51.9	48.4	103.6	6.8	-113.4
685	ok	0.12	0.2	9.59e-03	5.7	5.7	3.9	3.9	-16.6	31.5	19.7	82.2	19.1	-119.8
686	ok	0.12	0.1	1.07e-02	5.7	5.7	3.9	3.9	0.7	-33.6	1.5	361.9	-310.2	-255.5
687	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-427.9	-234.4	31.1	50.9	178.0	25.7
688	ok	0.12	0.1	0.2	5.7	5.7	3.9	3.9	-425.5	-211.9	54.7	59.6	169.5	49.6
689	ok	0.12	0.6	0.1	5.7	5.7	3.9	3.9	-214.5	-244.5	169.2	148.7	236.8	139.1
690	ok	0.14	1.0	0.2	7.1	7.5	5.4	5.8	-179.9	31.6	-327.0	288.7	-17.1	28.8
691	ok	0.12	0.2	9.54e-03	5.7	5.7	3.9	3.9	0.2	33.7	-11.3	-61.2	-238.8	124.4
692	ok	0.12	0.6	3.35e-03	5.7	5.7	3.9	3.9	9.7	52.4	-31.6	17.1	78.5	-24.8
693	ok	0.14	0.7	5.81e-02	6.1	7.4	4.4	5.6	51.1	167.0	273.8	424.9	163.1	13.0
694	ok	0.12	0.6	2.00e-02	5.7	5.7	3.9	3.9	108.7	77.7	135.5	183.2	40.8	-102.9
695	ok	0.12	0.2	8.95e-03	5.7	5.7	3.9	3.9	16.5	21.0	41.1	121.3	18.0	-112.5
696	ok	0.12	0.2	4.54e-03	5.7	5.7	3.9	3.9	-4.6	6.8	13.0	93.6	11.2	-121.2
697	ok	0.12	0.2	7.64e-03	5.7	5.7	3.9	3.9	3.8	-24.1	-7.8	363.7	-382.4	-295.9
698	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-701.4	-225.6	-17.2	43.5	181.1	44.4
699	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-700.6	-121.2	43.3	38.6	154.7	38.1
700	ok	0.12	0.2	6.76e-03	5.7	5.7	3.9	3.9	-4.2	32.3	-6.9	-65.0	-213.8	120.1
701	ok	0.12	0.3	4.56e-03	5.7	5.7	3.9	3.9	-0.4	46.6	-6.4	-61.8	-207.7	118.0
702	ok	0.12	0.6	6.12e-03	5.7	5.7	3.9	3.9	5.8	31.8	-25.0	28.6	68.5	-18.3
703	ok	0.12	0.8	4.92e-03	5.7	5.7	3.9	3.9	7.2	81.3	-44.7	17.3	77.2	-38.0
704	ok	0.12	0.1	6.43e-02	5.7	5.7	3.9	3.9	-105.9	-160.4	38.5	45.6	15.3	6.1
705	ok	0.12	0.1	4.82e-02	5.7	5.7	3.9	3.9	-96.1	-131.4	10.4	58.9	4.3	-0.6
706	ok	0.12	0.1	3.44e-02	5.7	5.7	3.9	3.9	-90.5	-75.0	-14.1	79.6	-11.4	-14.3
707	ok	0.12	0.2	3.19e-02	5.7	5.7	3.9	3.9	-86.1	-7.6	-14.2	95.5	-24.4	-37.0
708	ok	0.12	0.2	2.74e-02	5.7	5.7	3.9	3.9	-75.9	48.8	0.9	41.3	54.9	-12.1



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
709	ok	0.12	0.2	5.39e-03	5.7	5.7	3.9	3.9	-2.9	28.0	-3.2	-62.2	-163.3	108.6
710	ok	0.12	0.2	3.78e-03	5.7	5.7	3.9	3.9	-0.5	37.1	-3.3	-58.2	-159.3	110.7
711	ok	0.12	0.1	1.72e-02	5.7	5.7	3.9	3.9	-5.3	-43.0	6.9	172.8	-73.5	-62.7
712	ok	0.12	0.3	2.06e-02	5.7	5.7	3.9	3.9	-59.1	77.9	11.5	68.9	29.1	-46.8
713	ok	0.12	0.3	1.19e-02	5.7	5.7	3.9	3.9	-33.4	86.7	12.3	52.9	36.4	-61.1
714	ok	0.12	0.2	5.31e-03	5.7	5.7	3.9	3.9	5.8	-10.0	-13.8	96.1	-180.6	-87.4
715	ok	0.12	0.1	2.23e-02	5.7	5.7	3.9	3.9	-9.4	-59.5	7.4	-30.6	-97.8	-22.0
716	ok	0.12	0.1	8.06e-02	5.7	5.7	3.9	3.9	-157.7	-192.3	46.6	57.3	62.8	15.7
717	ok	0.12	0.1	6.17e-02	5.7	5.7	3.9	3.9	-141.9	-163.4	17.4	76.3	48.8	17.6
718	ok	0.12	0.2	4.84e-03	5.7	5.7	3.9	3.9	-2.5	24.1	-2.4	-61.2	-134.3	100.6
719	ok	0.12	0.2	3.49e-03	5.7	5.7	3.9	3.9	-1.5	25.6	-10.2	-94.3	-246.1	173.0
720	ok	0.12	0.2	1.22e-02	5.7	5.7	3.9	3.9	2.6	-37.3	-4.8	451.9	-497.1	-164.8
721	ok	0.12	0.1	4.92e-02	5.7	5.7	3.9	3.9	-124.8	-90.6	-9.7	110.6	25.5	7.6
722	ok	0.12	0.2	4.89e-02	5.7	5.7	3.9	3.9	-103.1	0.5	-17.9	137.2	1.7	-22.9
723	ok	0.12	0.2	3.80e-02	5.7	5.7	3.9	3.9	-94.2	73.4	18.4	106.5	26.0	-29.6
724	ok	0.12	0.3	2.77e-02	5.7	5.7	3.9	3.9	-65.0	85.3	41.2	89.5	30.3	-53.5
725	ok	0.12	0.3	1.76e-02	5.7	5.7	3.9	3.9	-39.7	76.4	35.2	69.5	36.3	-68.0
726	ok	0.12	0.2	8.76e-03	5.7	5.7	3.9	3.9	-24.0	54.2	10.4	43.1	68.5	-65.3
727	ok	0.12	0.2	4.70e-03	5.7	5.7	3.9	3.9	-6.4	17.5	-3.1	-55.8	-83.2	93.0
728	ok	0.12	0.2	3.42e-03	5.7	5.7	3.9	3.9	-1.09e-02	21.4	-9.6	-99.2	-255.5	185.7
729	ok	0.12	0.3	3.89e-03	5.7	5.7	3.9	3.9	-6.2	30.4	-14.8	-103.2	-363.0	187.6
730	ok	0.12	0.1	1.33e-02	5.7	5.7	3.9	3.9	-0.1	-40.4	3.4	405.6	-364.1	-198.0
731	ok	0.12	0.2	2.12e-02	5.7	5.7	3.9	3.9	-34.6	-51.4	-12.8	30.4	-57.5	-32.8
732	ok	0.12	0.3	1.59e-02	5.7	5.7	3.9	3.9	-30.9	-10.1	-20.5	40.2	-58.8	-48.4
733	ok	0.12	0.4	1.16e-02	5.7	5.7	3.9	3.9	-26.0	32.2	-21.7	29.2	70.1	-11.9
734	ok	0.12	0.5	6.59e-03	5.7	5.7	3.9	3.9	-6.9	71.4	-16.2	19.3	71.4	-17.6
735	ok	0.12	0.5	6.68e-03	5.7	5.7	3.9	3.9	1.2	106.7	-32.1	8.0	74.6	-27.7
736	ok	0.12	0.2	4.94e-03	5.7	5.7	3.9	3.9	2.2	-14.0	-6.2	74.5	-30.6	-121.1
737	ok	0.12	0.3	3.70e-03	5.7	5.7	3.9	3.9	-3.6	23.9	-4.2	-61.6	-69.4	103.9
738	ok	0.12	0.3	2.84e-03	5.7	5.7	3.9	3.9	-1.7	28.4	-10.6	-123.7	-477.1	254.6
739	ok	0.12	0.3	1.34e-02	5.7	5.7	3.9	3.9	-7.6	-29.3	-15.4	-2.2	-85.3	-33.1
740	ok	0.12	0.3	3.67e-03	5.7	5.7	3.9	3.9	6.5	33.3	-23.9	10.9	76.1	-10.9
741	ok	0.12	0.2	1.56e-02	5.7	5.7	3.9	3.9	-5.2	-42.3	-5.9	-20.9	-100.0	-27.6
742	ok	0.12	9.52e-02	5.23e-02	5.7	5.7	3.9	3.9	-70.8	-133.8	30.7	29.2	-20.9	-1.9
743	ok	0.12	0.1	3.90e-02	5.7	5.7	3.9	3.9	-61.1	-106.4	4.0	40.0	-29.2	-12.2
744	ok	0.12	0.1	2.66e-02	5.7	5.7	3.9	3.9	-58.5	-62.8	-13.1	53.0	-37.9	-26.5
745	ok	0.12	0.2	5.42e-03	5.7	5.7	3.9	3.9	-0.9	-16.1	-0.8	160.0	-185.4	-285.3
746	ok	0.12	0.2	4.17e-03	5.7	5.7	3.9	3.9	0.3	21.3	-7.8	-2.3	-191.7	366.5
747	ok	0.12	0.4	4.80e-03	5.7	5.7	3.9	3.9	-2.3	35.6	-17.1	-139.8	-476.3	351.7
748	ok	0.12	0.4	8.99e-03	5.7	5.7	3.9	3.9	0.3	12.6	-19.2	-127.5	117.2	61.1
749	ok	0.12	0.2	2.23e-02	5.7	5.7	3.9	3.9	-55.7	-11.8	-15.8	64.6	-44.4	-44.8
750	ok	0.12	0.3	1.83e-02	5.7	5.7	3.9	3.9	-48.2	37.3	-9.9	34.3	64.9	-12.3
751	ok	0.12	0.3	1.26e-02	5.7	5.7	3.9	3.9	-33.2	71.1	-4.9	28.4	65.4	-21.2
752	ok	0.12	0.3	5.84e-03	5.7	5.7	3.9	3.9	-15.2	96.1	-14.0	17.3	66.3	-30.1
753	ok	0.12	0.4	4.09e-03	5.7	5.7	3.9	3.9	7.9	62.6	-23.2	3.8	88.2	-13.6
754	ok	0.12	0.2	6.15e-03	5.7	5.7	3.9	3.9	-9.91e-02	-19.1	1.0	212.3	-198.5	-292.7
755	ok	0.12	0.3	4.92e-03	5.7	5.7	3.9	3.9	-0.8	12.0	-11.5	-229.6	-193.4	412.7
756	ok	0.12	0.4	3.86e-03	5.7	5.7	3.9	3.9	-1.3	21.1	-8.2	-259.4	-273.2	491.8
757	ok	0.12	0.4	2.00e-03	5.7	5.7	3.9	3.9	4.7	44.4	-15.1	-18.9	57.8	15.5
758	ok	0.12	0.3	6.66e-03	5.7	5.7	3.9	3.9	4.4	-16.8	-12.0	383.2	-541.0	-265.7
759	ok	0.12	0.3	1.06e-02	5.7	5.7	3.9	3.9	2.9	-28.2	-9.0	493.1	-604.6	-145.7
760	ok	0.12	0.1	3.51e-02	5.7	5.7	3.9	3.9	-30.3	-91.8	17.3	-4.8	-69.3	-13.5
761	ok	0.12	0.1	2.55e-02	5.7	5.7	3.9	3.9	-24.1	-70.6	0.1	2.9	-72.3	-23.7
762	ok	0.12	0.2	1.70e-02	5.7	5.7	3.9	3.9	-19.7	-40.7	-13.7	11.7	-72.3	-34.6
763	ok	0.12	0.2	7.07e-03	5.7	5.7	3.9	3.9	0.3	-24.1	-1.9	235.6	-181.7	-300.3
764	ok	0.12	0.2	5.65e-03	5.7	5.7	3.9	3.9	3.5	-14.4	-11.9	63.4	-130.5	-144.8
765	ok	0.12	0.3	4.08e-03	5.7	5.7	3.9	3.9	6.1	20.8	-15.5	7.9	42.5	11.0
766	ok	0.12	0.3	3.33e-03	5.7	5.7	3.9	3.9	6.2	41.1	-17.0	-9.9	58.8	9.5
767	ok	0.12	0.4	4.49e-03	5.7	5.7	3.9	3.9	9.0	27.5	-26.2	18.4	78.5	-17.5
768	ok	0.12	0.3	1.20e-02	5.7	5.7	3.9	3.9	-7.0	-17.7	-13.8	457.5	-702.3	-164.9
769	ok	0.12	0.6	9.03e-03	5.7	5.7	3.9	3.9	-10.5	34.8	-29.2	27.0	69.2	-11.9
770	ok	0.12	0.7	6.56e-03	5.7	5.7	3.9	3.9	25.0	73.9	-42.3	10.9	75.2	-11.7
771	ok	0.12	0.1	2.83e-02	5.7	5.7	3.9	3.9	-16.6	-74.4	12.4	-19.1	-85.5	-17.7
...														
1978	ok	0.12	0.1	5.87e-02	5.7	5.7	3.9	3.9	-124.1	12.7	1.1	-37.7	-109.4	-47.1
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
		0.22	0.99	0.39	12.63	20.44	9.81	14.00	-739.94	-811.29	-551.37	-561.42	-702.26	-494.64
									675.16	281.07	510.91	1058.06	1065.99	491.80



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
4	ok	0.35						
12	ok	3.14						
14	ok	2.42						
263	ok	0.36						
266	ok	0.34						
268	ok	0.38						
269	ok	0.35						
270	ok	0.45						
271	ok	0.41						
272	ok	0.59						
273	ok	0.47						
274	ok	0.87						
275	ok	0.58						
276	ok	2.00						
277	ok	0.72						
278	ok Av	6.89	8.98e-03	0.27	0.3	7.8	3.9	116.1
279	ok	1.48						
283	ok	0.57						
284	ok	0.18						
285	ok	0.20						
286	ok	0.24						
287	ok	0.38						
288	ok	0.31						
292	ok	0.57						
293	ok	0.17						
294	ok	0.20						
295	ok	0.22						
296	ok	0.22						
297	ok	0.31						
301	ok	0.29						
302	ok	0.17						
303	ok	0.14						
304	ok	0.16						
305	ok	0.18						
306	ok	0.21						
310	ok	0.14						
311	ok	0.09						
312	ok	0.11						
313	ok	0.13						
314	ok	0.15						
315	ok	0.18						
319	ok	0.28						
320	ok	0.09						
321	ok	0.09						
322	ok	0.11						
323	ok	0.13						
324	ok	0.15						
328	ok	0.43						
329	ok	0.09						
330	ok	0.08						
331	ok	0.09						
332	ok	0.11						
333	ok	0.13						
337	ok	0.43						
338	ok	0.08						
339	ok	0.07						
340	ok	0.07						
341	ok	0.09						
342	ok	0.11						
346	ok	0.28						
347	ok	0.07						
348	ok	0.06						
349	ok	0.06						
350	ok	0.08						
351	ok	0.10						
355	ok	0.22						
356	ok	0.08						
357	ok	0.05						
358	ok	0.05						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
359	ok	0.07						
360	ok	0.08						
364	ok	0.13						
365	ok	0.08						
366	ok	0.06						
367	ok	0.05						
368	ok	0.06						
369	ok	0.08						
373	ok	0.11						
374	ok	0.08						
375	ok	0.06						
376	ok	0.05						
377	ok	0.06						
378	ok	0.07						
382	ok	0.19						
383	ok	0.08						
384	ok	0.05						
385	ok	0.05						
386	ok	0.06						
387	ok	0.07						
391	ok	0.21						
392	ok	0.07						
393	ok	0.05						
394	ok	0.05						
395	ok	0.06						
396	ok	0.08						
400	ok	0.29						
401	ok	0.07						
402	ok	0.05						
403	ok	0.04						
404	ok	0.05						
405	ok	0.08						
409	ok	0.29						
410	ok	0.07						
411	ok	0.05						
412	ok	0.04						
413	ok	0.06						
414	ok	0.08						
418	ok	0.24						
419	ok	0.09						
420	ok	0.05						
421	ok	0.04						
422	ok	0.06						
423	ok	0.07						
427	ok	0.18						
428	ok	0.09						
429	ok	0.05						
430	ok	0.04						
431	ok	0.06						
432	ok	0.07						
436	ok	0.20						
437	ok	0.05						
438	ok	0.04						
439	ok	0.04						
440	ok	0.06						
441	ok	0.07						
445	ok	0.25						
446	ok	0.05						
447	ok	0.04						
448	ok	0.06						
449	ok	0.07						
450	ok	0.09						
454	ok	0.25						
455	ok	0.06						
456	ok	0.05						
457	ok	0.07						
458	ok	0.10						
459	ok	0.12						
463	ok	0.19						
464	ok	0.08						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
465	ok	0.06						
466	ok	0.08						
467	ok	0.17						
468	ok	0.25						
472	ok	0.11						
473	ok	0.08						
474	ok	0.07						
475	ok	0.10						
476	ok	0.17						
477	ok	0.59						
481	ok	0.08						
482	ok	0.07						
483	ok	0.07						
484	ok	0.10						
485	ok	0.18						
486	ok	0.59						
490	ok	0.08						
491	ok	0.08						
492	ok	0.10						
493	ok	0.10						
494	ok	0.21						
495	ok	0.57						
498	ok	0.19						
499	ok	0.22						
500	ok	0.26						
501	ok	0.32						
502	ok	0.40						
503	ok	2.71						
506	ok	0.19						
507	ok	0.22						
508	ok	0.26						
509	ok	0.32						
510	ok	0.40						
646	ok	0.19						
647	ok Av	7.21	0.27	0.09	7.7	2.7	114.9	39.5
648	ok	2.21						
649	ok	5.46						
650	ok	1.65						
651	ok	0.78						
652	ok	0.79						
653	ok	1.30						
654	ok	2.93						
655	ok	4.06						
656	ok	1.34						
657	ok	1.09						
658	ok	1.24						
659	ok	0.80						
660	ok	1.47						
661	ok	3.35						
662	ok	4.82						
663	ok	3.42						
664	ok	0.14						
665	ok	5.02						
666	ok	3.73						
667	ok Av	9.32	0.33	0.16	9.6	4.5	141.9	67.3
668	ok	2.90						
669	ok	1.39						
670	ok	0.62						
671	ok	2.38						
672	ok	3.02						
673	ok	3.73						
674	ok	0.21						
675	ok	0.24						
676	ok	0.46						
677	ok	0.72						
678	ok	1.26						
679	ok	1.08						
680	ok	1.17						
681	ok	0.77						
682	ok	1.22						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
683	ok	0.30						
684	ok	0.49						
685	ok	2.61						
686	ok	0.11						
687	ok	1.17						
688	ok	1.25						
689	ok	2.21						
690	ok Av	5.46	0.06	0.21	1.7	6.0	24.7	88.9
691	ok	0.36						
692	ok	0.65						
693	ok	1.65						
694	ok	0.78						
695	ok	0.79						
696	ok	1.30						
697	ok	0.13						
698	ok	1.17						
699	ok	1.25						
700	ok	0.17						
701	ok	1.28						
702	ok	0.78						
703	ok Av	6.33	0.23	0.08	6.8	2.4	100.5	36.0
704	ok	0.24						
705	ok	0.30						
706	ok	0.39						
707	ok	0.51						
708	ok	0.48						
709	ok	0.08						
710	ok	0.82						
711	ok	0.11						
712	ok	0.46						
713	ok	0.45						
714	ok	0.23						
715	ok	0.13						
716	ok	0.37						
717	ok	0.45						
718	ok	0.08						
719	ok	0.19						
720	ok	0.15						
721	ok	0.53						
722	ok	0.62						
723	ok	0.61						
724	ok	0.56						
725	ok	0.49						
726	ok	2.54						
727	ok	0.09						
728	ok	0.15						
729	ok	1.38						
730	ok	0.10						
731	ok	0.30						
732	ok	0.38						
733	ok	0.53						
734	ok	0.60						
735	ok	1.41						
736	ok	0.10						
737	ok	0.19						
738	ok	0.98						
739	ok	0.27						
740	ok	0.43						
741	ok	0.17						
742	ok	0.21						
743	ok	0.26						
744	ok	0.34						
745	ok	0.11						
746	ok	0.20						
747	ok	0.45						
748	ok	0.35						
749	ok	0.40						
750	ok	0.45						
751	ok	0.44						
752	ok	1.09						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
753	ok	4.64						
754	ok	0.11						
755	ok	0.20						
756	ok	0.32						
757	ok	4.80						
758	ok	0.20						
759	ok	0.24						
760	ok	0.17						
761	ok	0.21						
762	ok	0.28						
763	ok	0.10						
764	ok	0.20						
765	ok	0.23						
766	ok	4.36						
767	ok	0.26						
768	ok	0.38						
769	ok	0.69						
770	ok	0.91						
771	ok	0.15						
...								
1978	ok	0.28	9.02e-03	0.27	0.3	7.8	3.9	116.1
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		9.32	0.33	0.27	9.57	7.83	141.90	116.10

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
4	20.00	3	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	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
812	ok	0.12	8.92e-02	6.13e-02	5.7	5.7	3.9	3.9	-178.1	9.9	-6.7	-101.5	48.3	16.1
813	ok	0.12	0.3	7.96e-02	5.7	5.7	3.9	3.9	-198.8	84.6	1.3	-41.5	172.8	-4.7
814	ok	0.12	7.60e-02	4.99e-02	5.7	5.7	3.9	3.9	-136.2	-4.8	-9.1	-91.8	14.4	23.9
815	ok	0.12	6.71e-02	4.30e-02	5.7	5.7	3.9	3.9	-124.0	0.4	11.6	-64.3	16.5	12.5
816	ok	0.12	6.15e-02	3.91e-02	5.7	5.7	3.9	3.9	-108.8	1.0	16.7	-54.0	1.0	11.6
817	ok	0.12	5.84e-02	3.73e-02	5.7	5.7	3.9	3.9	-99.1	1.0	23.5	-46.7	-22.3	8.8
818	ok	0.12	7.54e-02	3.72e-02	5.7	5.7	3.9	3.9	-100.8	-0.5	27.2	-38.3	-30.0	13.5
819	ok	0.12	0.2	4.02e-02	5.7	5.7	3.9	3.9	-85.5	36.9	15.2	55.3	61.6	8.0
820	ok	0.12	0.2	7.01e-02	5.7	5.7	3.9	3.9	-155.8	-34.0	-46.7	-189.2	-81.7	-14.5
840	ok	0.12	0.7	0.1	5.7	5.7	3.9	3.9	-177.0	-154.7	201.3	-47.2	55.0	97.7
843	ok	0.12	9.15e-02	6.32e-02	5.7	5.7	3.9	3.9	-183.7	10.6	8.1	-106.1	38.5	-19.8
844	ok	0.12	0.3	8.23e-02	5.7	5.7	3.9	3.9	-204.7	88.4	-0.4	-44.6	166.1	1.8
845	ok	0.12	7.79e-02	5.13e-02	5.7	5.7	3.9	3.9	-149.3	1.4	-2.7	-83.7	23.1	-18.3
846	ok	0.12	6.88e-02	4.40e-02	5.7	5.7	3.9	3.9	-124.7	0.9	-10.8	-67.7	6.9	-16.6
847	ok	0.12	6.32e-02	3.99e-02	5.7	5.7	3.9	3.9	-111.4	1.2	-16.1	-56.7	-7.8	-15.8
848	ok	0.12	6.01e-02	3.80e-02	5.7	5.7	3.9	3.9	-101.4	0.9	-23.2	-48.2	-24.9	-13.1
849	ok	0.12	7.43e-02	3.78e-02	5.7	5.7	3.9	3.9	-103.0	-0.6	-27.2	-40.0	-33.4	-18.2
850	ok	0.12	0.2	4.09e-02	5.7	5.7	3.9	3.9	-88.3	35.5	-15.8	53.8	52.8	-12.9
851	ok	0.12	0.2	6.99e-02	5.7	5.7	3.9	3.9	-95.4	-48.8	20.3	-32.6	315.1	-61.5
871	ok	0.12	0.7	0.1	5.7	5.7	3.9	3.9	-109.2	-279.8	-129.9	56.7	498.6	-122.4
903	ok	0.12	8.78e-02	5.92e-02	5.7	5.7	3.9	3.9	-155.2	-17.9	-39.7	-115.9	1.6	24.4
904	ok	0.12	0.1	9.26e-02	5.7	5.7	3.9	3.9	-217.2	-90.5	-93.5	-135.1	-94.0	46.3
905	ok	0.12	7.62e-02	4.87e-02	5.7	5.7	3.9	3.9	-138.4	-15.1	-19.9	-91.6	3.6	15.0
906	ok	0.12	6.66e-02	4.19e-02	5.7	5.7	3.9	3.9	-119.7	-8.8	-4.2	-69.4	-3.4	11.4
907	ok	0.12	6.00e-02	3.79e-02	5.7	5.7	3.9	3.9	-109.5	-6.0	5.9	-54.2	-9.6	12.5
908	ok	0.12	5.59e-02	3.51e-02	5.7	5.7	3.9	3.9	-94.0	-5.1	17.7	-37.3	-1.4	8.5
909	ok	0.12	8.17e-02	3.39e-02	5.7	5.7	3.9	3.9	-88.3	-7.7	26.0	-29.2	-12.5	16.4
910	ok	0.12	0.1	4.48e-02	5.7	5.7	3.9	3.9	-59.5	-24.1	34.1	46.2	-17.0	138.7
911	ok	0.12	0.3	6.41e-02	5.7	5.7	3.9	3.9	-47.7	-83.1	32.2	-35.0	-26.8	152.9
912	ok	0.12	0.9	6.58e-02	5.7	5.7	3.9	3.9	-82.7	-185.1	62.5	6.3	59.3	181.6
913	ok	0.12	9.69e-02	5.85e-02	5.7	5.7	3.9	3.9	-115.7	-38.6	-42.6	-143.2	-11.6	27.5
914	ok	0.12	9.37e-02	6.22e-02	5.7	5.7	3.9	3.9	-103.2	-59.1	-53.7	-175.8	-15.3	52.4
915	ok	0.12	7.85e-02	4.69e-02	5.7	5.7	3.9	3.9	-108.5	-30.0	-27.4	-113.0	-9.0	4.6
916	ok	0.12	6.49e-02	3.97e-02	5.7	5.7	3.9	3.9	-115.3	-28.7	-4.9	-71.1	-20.5	-2.2
917	ok	0.12	5.53e-02	3.44e-02	5.7	5.7	3.9	3.9	-96.8	-14.4	-1.6	-52.1	-20.5	4.2
918	ok	0.12	4.91e-02	2.99e-02	5.7	5.7	3.9	3.9	-78.6	-13.7	15.3	-36.2	-7.3	-4.3
919	ok	0.12	6.29e-02	2.83e-02	5.7	5.7	3.9	3.9	-53.0	-19.2	21.3	59.8	-122.7	99.0



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
920	ok	0.12	0.1	2.83e-02	5.7	5.7	3.9	3.9	-44.9	-41.8	27.3	54.2	-166.8	131.6
921	ok	0.12	0.2	3.27e-02	5.7	5.7	3.9	3.9	-37.9	-83.1	30.8	38.1	-249.7	157.1
922	ok	0.12	0.5	3.76e-02	5.7	5.7	3.9	3.9	11.2	117.6	13.1	15.4	337.5	-185.9
923	ok	0.12	0.1	4.98e-02	5.7	5.7	3.9	3.9	-92.1	-4.7	27.9	-237.6	-11.6	45.0
924	ok	0.12	7.02e-02	3.86e-02	5.7	5.7	3.9	3.9	-44.5	-71.7	-26.0	-145.2	-17.0	36.4
925	ok	0.12	0.1	7.71e-02	5.7	5.7	3.9	3.9	-185.4	-56.2	-78.7	-148.4	-15.2	-45.8
926	ok	0.12	9.11e-02	3.60e-02	5.7	5.7	3.9	3.9	-94.4	-31.0	-26.1	-62.2	-28.4	-5.3
927	ok	0.12	4.87e-02	2.88e-02	5.7	5.7	3.9	3.9	-77.8	-25.7	-15.0	-47.6	-25.2	2.4
928	ok	0.12	4.23e-02	2.42e-02	5.7	5.7	3.9	3.9	-64.0	-24.2	7.5	-36.1	-15.7	-6.8
929	ok	0.12	7.97e-02	2.28e-02	5.7	5.7	3.9	3.9	-44.0	-29.4	18.2	66.5	-192.3	57.3
930	ok	0.12	0.2	2.09e-02	5.7	5.7	3.9	3.9	-35.0	-49.7	19.1	96.2	-248.3	74.0
931	ok	0.12	0.3	2.34e-02	5.7	5.7	3.9	3.9	-30.0	-73.6	23.4	80.0	-343.1	66.3
932	ok	0.12	0.5	3.64e-02	5.7	5.7	3.9	3.9	-44.1	-117.3	-26.0	73.2	-357.1	145.7
933	ok	0.12	0.1	2.88e-02	5.7	5.7	3.9	3.9	27.9	-74.9	-8.9	48.3	-39.8	10.3
934	ok	0.12	7.32e-02	3.70e-02	5.7	5.7	3.9	3.9	-14.5	-92.6	19.2	-109.6	-22.9	31.8
935	ok	0.12	0.2	1.78e-02	5.7	5.7	3.9	3.9	57.6	-11.4	9.4	35.0	-31.1	-0.6
936	ok	0.12	8.07e-02	4.26e-02	5.7	5.7	3.9	3.9	-52.7	-77.3	-54.0	-50.9	-30.3	-14.9
937	ok	0.12	4.75e-02	2.26e-02	5.7	5.7	3.9	3.9	-46.5	-40.0	2.8	-42.2	-19.8	-8.5
938	ok	0.12	4.13e-02	2.03e-02	5.7	5.7	3.9	3.9	-54.9	-32.7	6.2	-36.8	-20.3	-8.2
939	ok	0.12	9.68e-02	1.92e-02	5.7	5.7	3.9	3.9	-38.9	-32.4	12.6	88.0	-188.8	28.7
940	ok	0.12	0.2	1.66e-02	5.7	5.7	3.9	3.9	-34.8	-51.0	13.2	78.2	-252.0	36.4
941	ok	0.12	0.4	2.25e-02	5.7	5.7	3.9	3.9	-21.5	-71.4	4.2	17.8	-394.6	-25.9
942	ok	0.12	0.5	2.14e-02	5.7	5.7	3.9	3.9	-5.9	-71.1	-19.3	-2.6	-484.6	-19.9
943	ok	0.12	0.1	2.80e-02	5.7	5.7	3.9	3.9	27.7	-74.3	10.5	56.7	-46.3	-13.1
944	ok	0.12	7.41e-02	3.69e-02	5.7	5.7	3.9	3.9	-12.3	-92.1	-15.8	-111.8	-25.7	-36.8
945	ok	0.12	0.2	1.88e-02	5.7	5.7	3.9	3.9	57.9	-16.4	-8.7	30.2	-30.3	-5.5
946	ok	0.12	7.47e-02	4.46e-02	5.7	5.7	3.9	3.9	-55.0	-78.8	58.1	-50.4	-30.3	6.8
947	ok	0.12	4.62e-02	2.39e-02	5.7	5.7	3.9	3.9	-55.6	-41.6	18.4	-44.2	-24.3	-9.3
948	ok	0.12	4.64e-02	2.11e-02	5.7	5.7	3.9	3.9	-56.9	-32.4	10.9	-38.1	-24.1	-10.2
949	ok	0.12	9.23e-02	1.85e-02	5.7	5.7	3.9	3.9	-38.1	-34.1	10.2	71.5	-235.6	-33.3
950	ok	0.12	0.2	1.60e-02	5.7	5.7	3.9	3.9	-34.1	-52.0	8.8	60.7	-319.9	-34.3
951	ok	0.12	0.4	2.25e-02	5.7	5.7	3.9	3.9	-23.7	-72.2	3.8	48.4	-387.4	-33.5
952	ok	0.12	0.5	2.12e-02	5.7	5.7	3.9	3.9	12.6	102.1	24.5	2.3	431.9	-8.1
953	ok	0.12	0.1	4.61e-02	5.7	5.7	3.9	3.9	-88.2	0.6	-25.3	-246.0	-15.4	-51.0
954	ok	0.12	6.99e-02	3.92e-02	5.7	5.7	3.9	3.9	-44.0	-72.7	27.2	-148.2	-19.6	-41.6
955	ok	0.12	0.1	8.03e-02	5.7	5.7	3.9	3.9	-192.0	-62.0	82.2	-144.8	-13.1	42.3
956	ok	0.12	9.60e-02	3.73e-02	5.7	5.7	3.9	3.9	-96.9	-31.9	28.1	-62.7	-30.5	-1.5
957	ok	0.12	5.11e-02	2.98e-02	5.7	5.7	3.9	3.9	-79.5	-25.8	17.3	-48.4	-27.7	-9.4
958	ok	0.12	4.60e-02	2.47e-02	5.7	5.7	3.9	3.9	-71.0	-24.4	6.6	-40.0	-27.2	-12.1
959	ok	0.12	7.95e-02	2.22e-02	5.7	5.7	3.9	3.9	-44.0	-29.4	-17.3	64.5	-190.6	-63.9
960	ok	0.12	0.2	2.00e-02	5.7	5.7	3.9	3.9	-34.8	-49.4	-18.9	92.9	-245.5	-81.1
961	ok	0.12	0.3	2.31e-02	5.7	5.7	3.9	3.9	-29.8	-72.5	-23.5	77.5	-336.4	-74.3
962	ok	0.12	0.5	3.56e-02	5.7	5.7	3.9	3.9	-44.0	-116.6	25.0	72.1	-342.6	-147.6
963	ok	0.12	9.78e-02	6.12e-02	5.7	5.7	3.9	3.9	-117.9	-38.4	45.7	-147.4	-16.3	-33.4
964	ok	0.12	9.43e-02	6.38e-02	5.7	5.7	3.9	3.9	-105.3	-59.9	55.9	-181.1	-19.6	-58.6
965	ok	0.12	7.95e-02	4.85e-02	5.7	5.7	3.9	3.9	-83.8	-38.8	14.8	-110.4	-19.0	-20.5
966	ok	0.12	6.57e-02	4.05e-02	5.7	5.7	3.9	3.9	-111.8	-20.8	11.5	-73.3	-23.0	-6.2
967	ok	0.12	5.63e-02	3.51e-02	5.7	5.7	3.9	3.9	-98.8	-14.6	3.2	-53.5	-25.1	-11.3
968	ok	0.12	5.04e-02	3.02e-02	5.7	5.7	3.9	3.9	-79.8	-13.7	-13.7	-37.8	-11.8	-2.8
969	ok	0.12	5.82e-02	2.80e-02	5.7	5.7	3.9	3.9	-53.1	-19.3	-20.8	57.5	-119.9	-104.0
970	ok	0.12	0.1	2.73e-02	5.7	5.7	3.9	3.9	-44.7	-41.6	-27.2	51.9	-162.3	-135.8
971	ok	0.12	0.2	3.21e-02	5.7	5.7	3.9	3.9	-37.7	-82.2	-31.1	36.7	-241.1	-160.7
972	ok	0.12	0.6	3.79e-02	5.7	5.7	3.9	3.9	-7.4	-101.9	-29.2	-14.2	-360.3	-197.9
973	ok	0.12	8.94e-02	6.11e-02	5.7	5.7	3.9	3.9	-159.5	-17.9	42.3	-120.0	-5.8	-31.5
974	ok	0.12	0.1	9.56e-02	5.7	5.7	3.9	3.9	-223.8	-93.7	97.0	-140.2	-104.0	-54.5
975	ok	0.12	7.79e-02	5.01e-02	5.7	5.7	3.9	3.9	-138.8	-14.0	21.9	-94.0	-4.6	-22.5
976	ok	0.12	6.79e-02	4.29e-02	5.7	5.7	3.9	3.9	-122.5	-9.0	5.7	-71.7	-10.4	-19.0
977	ok	0.12	6.15e-02	3.86e-02	5.7	5.7	3.9	3.9	-109.3	-5.7	-4.6	-56.6	-16.3	-20.5
978	ok	0.12	5.78e-02	3.55e-02	5.7	5.7	3.9	3.9	-95.6	-5.2	-17.1	-38.5	-3.8	-16.4
979	ok	0.12	8.07e-02	3.41e-02	5.7	5.7	3.9	3.9	-89.2	-7.9	-25.5	-30.7	-15.5	-24.5
980	ok	0.12	0.1	4.42e-02	5.7	5.7	3.9	3.9	-60.0	-24.4	-35.0	44.8	-20.8	-141.5
981	ok	0.12	0.3	6.18e-02	5.7	5.7	3.9	3.9	-48.4	-97.7	-71.5	39.9	386.2	-141.7
982	ok	0.12	1.0	6.53e-02	5.7	5.7	3.9	3.9	31.4	216.6	78.4	-82.1	-540.1	74.1
1871	ok	0.12	0.5	0.3	5.7	5.7	3.9	3.9	-490.0	-78.2	442.2	26.0	13.5	158.3
1872	ok	0.13	0.7	0.1	5.8	5.7	4.1	3.9	-43.9	1.2	-325.7	-269.2	67.7	112.5
1873	ok	0.12	0.3	5.90e-02	5.7	5.7	3.9	3.9	-142.0	-24.6	64.3	-196.2	-50.4	249.8
1874	ok	0.12	0.2	1.42e-02	5.7	5.7	3.9	3.9	63.2	20.1	-34.3	-294.7	-34.9	-198.4
1875	ok	0.12	0.2	3.84e-03	5.7	5.7	3.9	3.9	18.6	13.7	-21.1	-209.3	-40.7	186.2
1876	ok	0.12	0.2	4.23e-03	5.7	5.7	3.9	3.9	12.2	9.5	16.7	-211.7	-39.0	-182.3
1877	ok	0.12	0.2	1.48e-02	5.7	5.7	3.9	3.9	61.7	21.7	33.8	-294.4	-34.0	196.8



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
1878	ok	0.12	0.3	5.86e-02	5.7	5.7	3.9	3.9	-140.4	-24.6	-64.8	-196.9	-51.9	-251.4
1879	ok	0.13	0.7	0.1	5.7	5.7	3.9	3.9	-45.3	2.5	316.0	-270.1	67.4	-109.5
1880	ok	0.12	0.5	0.3	5.7	5.7	3.9	3.9	-473.2	-76.1	-429.3	26.5	16.0	-165.4
2028	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-413.1	-167.4	-197.5	-872.5	-414.7	-127.3
2029	ok	0.12	0.2	0.2	5.7	5.7	3.9	3.9	-149.3	-163.7	-92.2	-438.9	12.5	-60.8
2030	ok	0.12	0.1	9.17e-02	5.7	5.7	3.9	3.9	-30.3	-102.3	2.2	-259.5	8.4	-74.7
2031	ok	0.12	0.1	4.70e-02	5.7	5.7	3.9	3.9	-50.8	-104.3	47.6	-178.9	-21.9	98.0
2032	ok	0.12	0.1	3.08e-02	5.7	5.7	3.9	3.9	-5.0	-85.2	4.7	-188.3	-19.8	134.7
2033	ok	0.12	0.1	3.10e-02	5.7	5.7	3.9	3.9	12.3	-77.1	-12.9	-193.4	-17.1	126.4
2034	ok	0.12	0.1	4.65e-02	5.7	5.7	3.9	3.9	-52.1	-101.7	-47.4	-187.7	-16.3	-139.5
2035	ok	0.12	0.1	8.98e-02	5.7	5.7	3.9	3.9	-30.7	-98.4	-2.1	-253.1	10.4	72.2
2036	ok	0.12	0.2	0.1	5.7	5.7	3.9	3.9	-145.4	-156.2	89.4	-425.5	18.9	56.5
2037	ok	0.12	0.3	0.2	5.7	5.7	3.9	3.9	-401.5	-161.0	191.0	-848.1	-380.0	122.1
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
		0.13	0.97	0.27	5.81	5.65	4.08	3.93	-490.03	-279.80	-429.28	-872.51	-540.07	-251.35
									63.21	216.59	442.18	96.22	498.62	249.76

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
812	ok	0.16						
813	ok	0.56						
814	ok	0.11						
815	ok	0.11						
816	ok	0.13						
817	ok	0.18						
818	ok	0.24						
819	ok	0.41						
820	ok	0.59						
840	ok	1.43						
843	ok	0.17						
844	ok	0.57						
845	ok	0.11						
846	ok	0.11						
847	ok	0.14						
848	ok	0.18						
849	ok	0.24						
850	ok	0.42						
851	ok	0.59						
871	ok	1.41						
903	ok	0.16						
904	ok	0.56						
905	ok	0.11						
906	ok	0.11						
907	ok	0.13						
908	ok	0.18						
909	ok	0.24						
910	ok	0.41						
911	ok	0.59						
912	ok	1.46						
913	ok	0.13						
914	ok	0.11						
915	ok	0.14						
916	ok	0.09						
917	ok	0.05						
918	ok	0.08						
919	ok	0.13						
920	ok	0.31						
921	ok	0.29						
922	ok	1.94						
923	ok	0.31						
924	ok	0.18						
925	ok	0.22						
926	ok	0.13						
927	ok	0.04						
928	ok	0.06						
929	ok	0.11						
930	ok	0.20						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
931	ok	0.31						
932	ok	1.94						
933	ok	0.31						
934	ok	0.18						
935	ok	0.22						
936	ok	0.13						
937	ok	0.04						
938	ok	0.06						
939	ok	0.09						
940	ok	0.18						
941	ok	0.31						
942	ok	0.58						
943	ok	0.30						
944	ok	0.18						
945	ok	0.21						
946	ok	0.13						
947	ok	0.04						
948	ok	0.06						
949	ok	0.09						
950	ok	0.18						
951	ok	0.30						
952	ok	0.56						
953	ok	0.30						
954	ok	0.18						
955	ok	0.21						
956	ok	0.13						
957	ok	0.04						
958	ok	0.06						
959	ok	0.11						
960	ok	0.20						
961	ok	0.30						
962	ok	1.93						
963	ok	0.13						
964	ok	0.12						
965	ok	0.15						
966	ok	0.09						
967	ok	0.05						
968	ok	0.08						
969	ok	0.13						
970	ok	0.30						
971	ok	0.28						
972	ok	1.93						
973	ok	0.17						
974	ok	0.57						
975	ok	0.11						
976	ok	0.11						
977	ok	0.14						
978	ok	0.18						
979	ok	0.24						
980	ok	0.42						
981	ok	0.59						
982	ok	1.46						
1871	ok	0.76						
1872	ok	0.76						
1873	ok	0.23						
1874	ok	0.18						
1875	ok	0.16						
1876	ok	0.15						
1877	ok	0.17						
1878	ok	0.22						
1879	ok	0.71						
1880	ok	0.71						
2028	ok	0.80						
2029	ok	0.80						
2030	ok	0.26						
2031	ok	0.18						
2032	ok	0.16						
2033	ok	0.16						
2034	ok	0.17						
2035	ok	0.26						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
2036	ok	0.77						
2037	ok	0.77						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		1.94						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
5	25.00	3	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	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	0.10	0.3	7.47e-03	5.7	5.7	3.9	3.9	81.7	14.8	-7.5	327.0	1.2	-81.0
781	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-578.5	-6.7	3.0	278.9	0.9	15.0
782	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-569.9	3.2	40.1	300.7	-13.2	-4.3
783	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-579.5	-1.3	1.9	236.2	0.3	10.2
784	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-581.4	-0.4	2.0	198.3	1.88e-02	9.6
785	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-580.2	0.4	2.1	160.9	-1.18e-04	9.5
786	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-585.2	-0.4	2.0	123.5	5.45e-03	9.5
787	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-581.6	9.9	-2.3	86.1	-7.75e-02	9.4
788	ok	0.10	0.2	0.2	5.7	5.7	3.9	3.9	-535.3	107.7	-46.6	49.0	-0.6	9.0
789	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-689.6	-274.3	-100.0	12.6	-6.1	7.4
790	ok	0.10	0.1	7.20e-02	5.7	5.7	3.9	3.9	-251.7	-0.3	4.8	272.7	1.3	29.8
791	ok	0.10	0.1	7.76e-02	5.7	5.7	3.9	3.9	-269.3	33.5	-36.8	328.5	43.1	61.6
792	ok	0.10	0.1	7.13e-02	5.7	5.7	3.9	3.9	-251.4	0.2	4.5	235.9	-0.5	29.3
793	ok	0.10	0.1	7.04e-02	5.7	5.7	3.9	3.9	-248.3	-0.3	4.6	198.3	-3.60e-02	29.4
794	ok	0.10	0.1	6.94e-02	5.7	5.7	3.9	3.9	-245.0	-0.3	4.6	160.9	1.10e-02	29.3
795	ok	0.10	9.75e-02	6.85e-02	5.7	5.7	3.9	3.9	-241.8	-0.2	4.8	123.5	5.53e-02	29.3
796	ok	0.10	8.94e-02	6.84e-02	5.7	5.7	3.9	3.9	-241.1	1.3	6.3	86.1	0.3	29.3
797	ok	0.10	8.55e-02	8.31e-02	5.7	5.7	3.9	3.9	-287.8	-38.1	36.5	48.6	1.7	26.7
798	ok	0.10	7.94e-02	5.85e-02	5.7	5.7	3.9	3.9	-76.4	-146.2	-82.5	11.8	4.0	30.0
799	ok	0.10	0.3	4.50e-03	5.7	5.7	3.9	3.9	74.7	8.7	-5.8	282.1	-1.6	-71.4
800	ok	0.10	0.2	2.31e-03	5.7	5.7	3.9	3.9	71.8	5.8	-5.4	251.3	-2.9	-71.9
801	ok	0.10	0.2	1.71e-03	5.7	5.7	3.9	3.9	84.8	-0.4	-1.2	198.3	7.10e-02	15.6
802	ok	0.10	0.2	1.39e-03	5.7	5.7	3.9	3.9	93.2	-0.3	-1.2	160.9	6.42e-03	15.6
803	ok	0.10	0.2	1.13e-03	5.7	5.7	3.9	3.9	104.4	0.1	-1.1	123.5	5.26e-03	15.6
804	ok	0.10	0.2	9.67e-04	5.7	5.7	3.9	3.9	115.4	3.5	3.0	86.2	3.52e-03	15.7
805	ok	0.10	0.2	2.22e-03	5.7	5.7	3.9	3.9	162.3	47.4	27.6	49.3	-0.5	16.0
806	ok	0.10	0.1	4.09e-02	5.7	5.7	3.9	3.9	36.0	-90.1	-93.6	5.7	1.5	17.0
807	ok	0.10	0.1	5.52e-02	5.7	5.7	3.9	3.9	-58.4	-72.5	-124.1	-17.3	16.0	17.6
808	ok	0.10	0.3	6.70e-02	5.7	5.7	3.9	3.9	102.1	-130.5	-181.1	-12.2	-13.5	7.3
809	ok	0.10	0.4	0.3	5.7	5.7	3.9	3.9	-841.4	164.0	216.4	0.7	13.3	6.9
1865	ok	0.10	0.8	0.3	5.7	5.7	3.9	3.9	-730.5	84.2	-429.6	2423.4	336.1	1193.4
1885	ok	0.12	0.8	0.1	9.9	6.9	8.2	5.2	29.7	91.9	457.0	-915.0	-45.8	-125.2
1889	ok	0.10	0.5	4.65e-03	5.7	5.7	3.9	3.9	221.7	26.5	75.6	-35.0	-5.6	-12.9
2023	ok	0.10	0.2	0.2	5.7	5.7	3.9	3.9	-571.5	-166.7	176.1	-195.2	-146.7	-450.2
2042	ok	0.10	0.2	0.1	5.7	5.7	3.9	3.9	-261.0	-164.4	-220.5	934.5	149.0	317.2
2046	ok	0.10	0.3	2.98e-02	5.7	5.7	3.9	3.9	-53.5	-33.7	-58.7	306.7	5.4	48.5
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-841.41	-274.30	-429.62	-915.02	-146.74	-450.24
		0.12	0.81	0.26	9.89	6.94	8.16	5.21	221.72	164.03	457.01	2423.37	336.12	1193.37

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
7	ok	0.22						
781	ok	0.19						
782	ok	0.32						
783	ok	0.18						
784	ok	0.18						
785	ok	0.18						
786	ok	0.18						
787	ok	0.19						
788	ok	0.19						
789	ok	0.24						
790	ok	0.22						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
791	ok	0.32						
792	ok	0.22						
793	ok	0.22						
794	ok	0.21						
795	ok	0.21						
796	ok	0.21						
797	ok	0.21						
798	ok	0.24						
799	ok	0.22						
800	ok	0.22						
801	ok	0.22						
802	ok	0.21						
803	ok	0.21						
804	ok	0.21						
805	ok	0.21						
806	ok	0.20						
807	ok	0.46						
808	ok	0.38						
809	ok	0.38						
1865	ok	1.37						
1885	ok	1.37						
1889	ok	0.33						
2023	ok	1.14						
2042	ok	1.14						
2046	ok	0.35						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		1.37						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
6	25.00	3	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
8	ok	0.10	0.5	4.63e-03	5.7	5.7	3.9	3.9	daN/cm	daN/cm	daN/cm	daN	daN	daN
812	ok	0.10	7.20e-02	6.33e-02	5.7	5.7	3.9	3.9	-223.4	4.1	6.2	-65.6	-50.6	22.4
813	ok	0.10	0.2	8.02e-02	5.7	5.7	3.9	3.9	-243.8	42.2	45.2	-350.6	-116.1	23.8
814	ok	0.10	6.08e-02	5.14e-02	5.7	5.7	3.9	3.9	-181.5	-4.20e-02	-4.2	-45.4	-34.0	24.6
815	ok	0.10	5.34e-02	4.41e-02	5.7	5.7	3.9	3.9	-154.8	-0.3	-10.6	-34.6	-17.3	22.3
816	ok	0.10	4.76e-02	3.99e-02	5.7	5.7	3.9	3.9	-139.0	-0.1	-14.9	-21.4	-1.7	20.3
817	ok	0.10	4.40e-02	3.77e-02	5.7	5.7	3.9	3.9	-123.6	1.6	-21.1	-5.0	23.0	15.2
818	ok	0.10	5.75e-02	3.72e-02	5.7	5.7	3.9	3.9	-122.4	4.1	-26.2	-6.0	27.4	21.3
819	ok	0.10	0.1	3.86e-02	5.7	5.7	3.9	3.9	-116.5	29.2	-38.5	-102.6	7.6	35.9
820	ok	0.10	0.1	5.87e-02	5.7	5.7	3.9	3.9	-203.3	-66.6	16.0	289.6	123.7	76.7
821	ok	0.10	0.1	2.40e-02	5.7	5.7	3.9	3.9	36.6	0.3	-22.7	-44.7	-15.6	-39.0
822	ok	0.10	0.1	3.95e-02	5.7	5.7	3.9	3.9	-106.0	-11.1	-53.4	61.3	149.7	-60.7
823	ok	0.10	9.15e-02	2.08e-02	5.7	5.7	3.9	3.9	26.5	-2.5	-20.4	-43.7	-16.7	-49.1
824	ok	0.10	7.59e-02	1.86e-02	5.7	5.7	3.9	3.9	-59.2	1.3	-20.3	-35.9	-7.5	54.9
825	ok	0.10	6.92e-02	1.91e-02	5.7	5.7	3.9	3.9	-64.3	4.8	-12.8	14.1	17.7	64.8
826	ok	0.10	6.98e-02	2.03e-02	5.7	5.7	3.9	3.9	-59.0	4.9	-23.2	79.6	48.9	-2.7
827	ok	0.10	7.56e-02	2.26e-02	5.7	5.7	3.9	3.9	-70.0	6.0	-20.5	168.4	123.4	40.4
828	ok	0.10	8.19e-02	3.18e-02	5.7	5.7	3.9	3.9	-96.2	-17.9	-6.2	73.4	79.1	94.8
829	ok	0.10	8.02e-02	2.97e-02	5.7	5.7	3.9	3.9	-60.0	-60.1	30.0	114.2	-87.0	13.8
830	ok	0.10	0.3	5.21e-03	5.7	5.7	3.9	3.9	141.0	5.5	-10.5	-37.6	-11.2	-62.7
831	ok	0.10	0.3	6.85e-03	5.7	5.7	3.9	3.9	113.6	5.3	-9.7	-51.1	-8.7	-64.0
832	ok	0.10	0.2	7.87e-03	5.7	5.7	3.9	3.9	83.1	4.7	-8.4	-36.4	-5.0	-71.1
833	ok	0.10	0.1	8.48e-03	5.7	5.7	3.9	3.9	48.3	2.0	-7.8	26.5	8.8	-65.9
834	ok	0.10	9.71e-02	8.79e-03	5.7	5.7	3.9	3.9	24.7	1.7	-7.0	89.6	25.2	-46.7
835	ok	0.10	6.50e-02	8.74e-03	5.7	5.7	3.9	3.9	-27.8	1.3	4.4	-179.7	-44.0	25.8
836	ok	0.10	0.1	8.40e-03	5.7	5.7	3.9	3.9	-21.6	-6.6	-3.5	44.3	-5.1	30.7
837	ok	0.10	6.04e-02	4.56e-02	5.7	5.7	3.9	3.9	-104.7	-78.2	-65.6	-4.6	-5.1	19.0
838	ok	0.10	7.02e-02	5.42e-02	5.7	5.7	3.9	3.9	-128.8	-57.9	-88.8	-24.8	61.6	19.6
839	ok	0.10	0.2	2.32e-02	5.7	5.7	3.9	3.9	42.4	-50.8	-59.0	-73.2	58.8	-7.3
840	ok	0.10	0.2	9.66e-02	5.7	5.7	3.9	3.9	-328.4	48.6	68.3	222.7	-22.7	-99.2
1880	ok	0.10	0.8	0.2	7.8	5.9	6.3	4.1	-649.2	296.0	-252.2	714.5	-245.8	311.7
1887	ok	0.10	0.3	1.20e-02	5.7	5.7	3.9	3.9	92.8	32.3	49.0	-13.7	-37.5	-10.1



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
1888	ok	0.11	0.8	5.37e-02	7.4	7.7	5.6	6.0	231.6	196.8	282.5	-281.0	155.3	86.6
2037	ok	0.10	0.2	0.2	5.7	5.7	3.9	3.9	-441.9	-267.0	154.5	561.1	533.9	67.2
2044	ok	0.10	0.6	6.78e-03	5.7	5.7	3.9	3.9	184.0	6.6	-3.2	249.2	1.2	24.7
2045	ok	0.10	0.3	6.75e-02	5.7	5.7	3.9	3.9	-118.6	-170.4	-84.0	561.3	-121.1	162.8
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
		0.11	0.84	0.20	7.85	7.70	6.26	5.97	-649.19	-266.96	-252.17	-350.60	-245.81	-99.22
									231.59	296.01	282.51	714.52	533.89	311.65

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
8	ok	0.20						
812	ok	0.16						
813	ok	0.56						
814	ok	0.15						
815	ok	0.17						
816	ok	0.17						
817	ok	0.18						
818	ok	0.24						
819	ok	0.39						
820	ok	0.92						
821	ok	0.20						
822	ok	0.56						
823	ok	0.17						
824	ok	0.17						
825	ok	0.18						
826	ok	0.18						
827	ok	0.24						
828	ok	0.39						
829	ok	0.92						
830	ok	0.20						
831	ok	0.17						
832	ok	0.17						
833	ok	0.18						
834	ok	0.18						
835	ok	0.18						
836	ok	0.26						
837	ok	0.45						
838	ok	0.47						
839	ok	1.74						
840	ok	1.73						
1880	ok	0.80						
1887	ok	0.15						
1888	ok	0.80						
2037	ok	0.80						
2044	ok	0.18						
2045	ok	0.80						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		1.74						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
7	25.00	3	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	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	0.10	0.5	4.68e-03	5.7	5.7	3.9	3.9	189.1	-10.5	-18.7	-97.3	-8.7	-1.7
843	ok	0.10	7.33e-02	6.54e-02	5.7	5.7	3.9	3.9	-230.6	4.2	7.3	63.6	41.4	-28.2
844	ok	0.10	0.2	8.28e-02	5.7	5.7	3.9	3.9	-265.2	38.6	56.2	374.4	104.4	-45.4
845	ok	0.10	6.16e-02	5.29e-02	5.7	5.7	3.9	3.9	-186.8	3.84e-02	-3.2	43.5	24.6	-30.7
846	ok	0.10	5.41e-02	4.52e-02	5.7	5.7	3.9	3.9	-158.8	-0.2	-9.8	33.3	8.1	-28.7
847	ok	0.10	4.82e-02	4.07e-02	5.7	5.7	3.9	3.9	-139.2	0.5	-14.2	19.6	-7.4	-27.1
848	ok	0.10	4.45e-02	3.85e-02	5.7	5.7	3.9	3.9	-133.3	0.1	-17.8	9.8	-17.3	-26.1
849	ok	0.10	5.66e-02	3.80e-02	5.7	5.7	3.9	3.9	-128.3	0.9	-24.6	-4.6	-35.8	-26.8
850	ok	0.10	0.1	3.94e-02	5.7	5.7	3.9	3.9	-119.6	29.8	-38.6	93.0	-12.9	-44.2



Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
851	ok	0.10	0.1	6.00e-02	5.7	5.7	3.9	3.9	-207.7	-68.2	16.9	-298.1	-130.8	-83.6
852	ok	0.10	0.1	2.39e-02	5.7	5.7	3.9	3.9	-68.7	-0.9	-26.7	17.4	-14.0	-77.7
853	ok	0.10	0.1	4.09e-02	5.7	5.7	3.9	3.9	-122.6	-6.0	-54.1	-79.1	-175.1	22.7
854	ok	0.10	8.41e-02	2.06e-02	5.7	5.7	3.9	3.9	-62.4	1.7	-22.4	40.0	4.0	-74.1
855	ok	0.10	6.81e-02	1.92e-02	5.7	5.7	3.9	3.9	-61.5	1.5	-20.2	35.6	4.8	-69.3
856	ok	0.10	6.48e-02	1.95e-02	5.7	5.7	3.9	3.9	-63.8	1.1	-18.7	24.4	1.5	-64.9
857	ok	0.10	6.60e-02	2.07e-02	5.7	5.7	3.9	3.9	-60.5	4.9	-22.5	-82.4	-52.1	-9.5
858	ok	0.10	7.29e-02	2.30e-02	5.7	5.7	3.9	3.9	-71.4	6.1	-19.8	-173.8	-126.4	-36.1
859	ok	0.10	8.01e-02	3.21e-02	5.7	5.7	3.9	3.9	-97.8	-18.4	-5.3	-61.0	-62.4	-99.9
860	ok	0.10	7.95e-02	3.01e-02	5.7	5.7	3.9	3.9	-60.3	-60.9	30.6	-115.3	98.7	-25.9
861	ok	0.10	0.3	4.47e-03	5.7	5.7	3.9	3.9	138.8	5.7	-10.5	35.2	11.2	59.9
862	ok	0.10	0.3	6.16e-03	5.7	5.7	3.9	3.9	111.2	5.4	-9.6	49.5	8.5	60.6
863	ok	0.10	0.2	7.29e-03	5.7	5.7	3.9	3.9	80.9	4.7	-8.3	35.7	4.9	67.3
864	ok	0.10	0.1	8.00e-03	5.7	5.7	3.9	3.9	46.8	2.1	-7.6	-29.6	-9.5	61.4
865	ok	0.10	9.38e-02	8.37e-03	5.7	5.7	3.9	3.9	23.8	1.8	-6.8	-95.0	-26.2	41.5
866	ok	0.10	6.31e-02	8.35e-03	5.7	5.7	3.9	3.9	-26.4	1.2	4.2	181.1	45.3	-30.3
867	ok	0.10	0.1	7.97e-03	5.7	5.7	3.9	3.9	-20.2	-6.7	-3.5	-49.2	5.3	-38.5
868	ok	0.10	6.16e-02	4.54e-02	5.7	5.7	3.9	3.9	-103.0	-78.5	-65.9	3.3	4.0	-23.3
869	ok	0.10	7.18e-02	5.42e-02	5.7	5.7	3.9	3.9	-127.9	-58.1	-89.2	34.8	-69.6	-28.3
870	ok	0.10	0.2	2.38e-02	5.7	5.7	3.9	3.9	43.1	-52.3	-60.2	61.4	-54.8	8.1
871	ok	0.10	0.2	9.80e-02	5.7	5.7	3.9	3.9	-333.1	49.1	69.9	-212.2	36.4	99.6
1871	ok	0.11	0.8	0.2	6.0	7.9	4.3	6.3	-668.8	300.7	-262.9	-760.0	198.1	-346.1
1884	ok	0.10	0.3	1.17e-02	5.7	5.7	3.9	3.9	92.4	31.9	48.9	15.0	36.2	28.8
1886	ok	0.11	0.8	5.69e-02	7.9	7.5	6.2	5.8	234.1	200.0	290.3	294.6	-166.0	-89.0
2028	ok	0.10	0.2	0.2	5.7	5.7	3.9	3.9	-511.7	-90.6	-29.8	-796.1	-269.5	159.2
2041	ok	0.10	0.6	6.55e-03	5.7	5.7	3.9	3.9	162.0	2.0	-10.3	-288.8	-0.3	-41.6
2043	ok	0.10	0.3	7.02e-02	5.7	5.7	3.9	3.9	-123.9	-175.2	-88.4	-591.4	113.2	-183.7
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
		0.11	0.82	0.20	7.90	7.94	6.17	6.29	-668.77	-175.16	-262.92	-796.13	-269.52	-346.11
									234.11	300.66	290.31	374.39	198.11	159.22

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
9	ok	0.21						
843	ok	0.16						
844	ok	0.58						
845	ok	0.15						
846	ok	0.17						
847	ok	0.18						
848	ok	0.19						
849	ok	0.24						
850	ok	0.40						
851	ok	0.96						
852	ok	0.21						
853	ok	0.58						
854	ok	0.17						
855	ok	0.18						
856	ok	0.18						
857	ok	0.19						
858	ok	0.24						
859	ok	0.40						
860	ok	0.96						
861	ok	0.21						
862	ok	0.17						
863	ok	0.18						
864	ok	0.18						
865	ok	0.18						
866	ok	0.18						
867	ok	0.26						
868	ok	0.45						
869	ok	0.46						
870	ok	1.74						
871	ok	1.74						
1871	ok	0.82						
1884	ok	0.16						
1886	ok	0.82						
2028	ok	0.83						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
2041	ok	0.19						
2043	ok	0.83						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		1.74						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
8	25.00	3	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	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	0.10	0.3	7.22e-03	5.7	5.7	3.9	3.9	84.5	14.3	-7.3	-352.1	0.9	76.3
874	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-583.2	-6.5	2.9	-295.4	-0.7	-18.1
875	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-574.8	4.0	40.3	-318.4	16.6	3.2
876	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-583.5	-1.3	1.8	-249.8	-0.3	-13.1
877	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-584.6	-0.4	2.0	-209.4	-1.73e-02	-12.4
878	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-582.7	0.4	2.0	-169.5	2.41e-04	-12.4
879	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-584.3	1.1	1.9	-129.5	1.17e-02	-12.3
880	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-582.6	9.8	-2.4	-89.6	0.1	-12.3
881	ok	0.10	0.2	0.2	5.7	5.7	3.9	3.9	-535.8	107.3	-46.5	-50.0	0.8	-11.7
882	ok	0.10	0.1	0.2	5.7	5.7	3.9	3.9	-689.7	-273.7	-99.3	-11.2	7.9	-9.4
883	ok	0.10	0.1	7.20e-02	5.7	5.7	3.9	3.9	-251.6	-0.3	4.4	-288.8	-1.4	-36.7
884	ok	0.10	0.1	7.78e-02	5.7	5.7	3.9	3.9	-269.9	33.2	-37.1	-348.9	-46.9	-71.1
885	ok	0.10	0.1	7.12e-02	5.7	5.7	3.9	3.9	-251.3	0.2	4.1	-249.5	0.6	-36.2
886	ok	0.10	9.94e-02	7.03e-02	5.7	5.7	3.9	3.9	-248.2	-0.3	4.2	-209.4	3.83e-02	-36.3
887	ok	0.10	9.40e-02	6.94e-02	5.7	5.7	3.9	3.9	-244.9	-0.3	4.2	-169.5	-1.49e-02	-36.2
888	ok	0.10	8.82e-02	6.85e-02	5.7	5.7	3.9	3.9	-241.7	-0.2	4.4	-129.5	-7.35e-02	-36.2
889	ok	0.10	8.23e-02	6.83e-02	5.7	5.7	3.9	3.9	-241.0	1.2	5.9	-89.6	-0.3	-36.3
890	ok	0.10	8.20e-02	8.30e-02	5.7	5.7	3.9	3.9	-250.9	-5.7	12.6	-49.6	-1.6	-36.1
891	ok	0.10	7.97e-02	5.83e-02	5.7	5.7	3.9	3.9	-75.9	-145.8	-82.3	-10.4	-5.1	-37.7
892	ok	0.10	0.3	3.91e-03	5.7	5.7	3.9	3.9	77.3	8.2	-5.6	-299.8	1.9	64.9
893	ok	0.10	0.2	2.13e-03	5.7	5.7	3.9	3.9	80.4	-1.3	-1.1	-249.2	-0.7	-19.0
894	ok	0.10	0.2	1.70e-03	5.7	5.7	3.9	3.9	88.2	-0.4	-1.2	-209.4	-7.76e-02	-18.9
895	ok	0.10	0.2	1.44e-03	5.7	5.7	3.9	3.9	95.9	-0.3	-1.3	-169.5	-7.22e-03	-18.9
896	ok	0.10	0.2	1.21e-03	5.7	5.7	3.9	3.9	106.4	0.1	-1.1	-129.5	-6.88e-03	-18.9
897	ok	0.10	0.2	1.06e-03	5.7	5.7	3.9	3.9	116.6	3.4	3.0	-89.7	-7.79e-03	-19.0
898	ok	0.10	0.2	2.21e-03	5.7	5.7	3.9	3.9	162.7	47.2	27.5	-50.4	0.5	-19.3
899	ok	0.10	0.1	4.09e-02	5.7	5.7	3.9	3.9	35.6	-89.8	-93.6	-3.3	-1.8	-20.9
900	ok	0.10	0.1	5.51e-02	5.7	5.7	3.9	3.9	-59.2	-71.5	-123.9	22.1	-18.6	-22.2
901	ok	0.10	0.3	6.67e-02	5.7	5.7	3.9	3.9	102.3	-129.2	-181.1	15.8	16.6	-8.9
902	ok	0.10	0.4	0.3	5.7	5.7	3.9	3.9	-840.6	164.1	215.4	-1.4	-17.0	-9.3
1881	ok	0.10	0.5	4.59e-03	5.7	5.7	3.9	3.9	220.8	25.8	75.5	41.1	8.4	17.2
1882	ok	0.10	0.8	0.3	5.7	5.7	3.9	4.0	-736.7	92.0	-430.1	-2572.6	-397.1	-1283.2
1883	ok	0.12	0.8	0.1	7.0	10.4	5.3	8.6	34.3	96.4	459.5	970.8	44.7	133.0
2038	ok	0.10	0.3	2.85e-02	5.7	5.7	3.9	3.9	-47.0	-33.1	-57.9	-338.1	-7.2	-55.3
2039	ok	0.10	0.3	0.2	5.7	5.7	3.9	3.9	-579.2	-173.1	176.0	209.0	177.1	480.3
2040	ok	0.10	0.3	0.1	5.7	5.7	3.9	3.9	-260.3	-167.2	-219.4	-992.9	-164.2	-345.2
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-840.59	-273.71	-430.12	-2572.56	-397.12	-1283.25
		0.12	0.81	0.26	7.00	10.36	5.27	8.63	220.83	164.06	459.51	970.78	177.06	480.33

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
10	ok	0.22						
874	ok	0.19						
875	ok	0.33						
876	ok	0.19						
877	ok	0.18						
878	ok	0.18						
879	ok	0.18						
880	ok	0.18						
881	ok	0.18						
882	ok	0.23						
883	ok	0.22						



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
884	ok	0.33						
885	ok	0.22						
886	ok	0.21						
887	ok	0.21						
888	ok	0.21						
889	ok	0.21						
890	ok	0.21						
891	ok	0.23						
892	ok	0.22						
893	ok	0.22						
894	ok	0.21						
895	ok	0.21						
896	ok	0.21						
897	ok	0.21						
898	ok	0.21						
899	ok	0.20						
900	ok	0.46						
901	ok	0.38						
902	ok	0.37						
1881	ok	0.35						
1882	ok	1.42						
1883	ok	1.42						
2038	ok	0.36						
2039	ok	1.34						
2040	ok	1.34						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		1.42						

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).

Pilas.	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	Pos.	rRfck	rRfyk	rPfck	Rif. cmb
	cm						cm			
516	0.0	0.16	0.11	0.18	115,115,140	29.4	0.15	0.10	0.17	115,115,140
	58.7	0.15	0.10	0.17	115,115,140					
517	0.0	0.12	0.08	0.12	120,120,140	29.4	0.11	0.07	0.12	120,120,140
	58.7	0.10	0.07	0.11	120,120,140					
518	0.0	0.11	0.08	0.13	115,115,140	20.0	0.11	0.07	0.12	115,115,140
	40.0	0.10	0.07	0.11	125,125,140					
519	0.0	0.09	0.06	0.10	120,120,140	20.0	0.08	0.06	0.10	130,130,140
	40.0	0.08	0.06	0.10	130,130,140					
520	0.0	0.14	0.09	0.16	115,115,140	27.5	0.13	0.08	0.14	115,115,140
	55.0	0.11	0.08	0.13	115,115,140					
521	0.0	0.09	0.06	0.10	120,120,140	27.5	0.09	0.06	0.10	120,120,140
	55.0	0.09	0.06	0.10	120,120,140					
522	0.0	0.10	0.07	0.12	125,125,140	20.0	0.10	0.07	0.11	125,125,140



Pilas.	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	Pos.	rRfck	rRfyk	rPfck	Rif. cmb
	40.0	0.10	0.07	0.11	125,125,140					
523	0.0	0.09	0.06	0.10	130,130,140	20.0	0.08	0.06	0.09	130,130,140
	40.0	0.08	0.06	0.09	130,130,140					
524	0.0	0.10	0.07	0.12	125,125,140	20.0	0.10	0.07	0.12	125,125,140
	40.0	0.10	0.07	0.11	125,125,140					
525	0.0	0.08	0.06	0.10	130,130,140	20.0	0.08	0.06	0.09	130,130,140
	40.0	0.08	0.05	0.09	130,130,140					
526	0.0	0.10	0.07	0.12	125,125,140	20.0	0.10	0.07	0.12	125,125,140
	40.0	0.10	0.07	0.11	125,125,140					
527	0.0	0.08	0.06	0.10	130,130,140	20.0	0.08	0.06	0.09	130,130,140
	40.0	0.08	0.06	0.09	130,130,140					
528	0.0	0.10	0.07	0.12	125,125,140	20.0	0.10	0.07	0.12	125,125,140
	40.0	0.10	0.07	0.11	125,125,140					
529	0.0	0.08	0.06	0.10	130,130,140	20.0	0.08	0.06	0.10	130,130,140
	40.0	0.08	0.06	0.09	130,130,140					
530	0.0	0.10	0.07	0.12	125,125,140	20.0	0.09	0.07	0.11	115,115,140
	40.0	0.09	0.06	0.10	115,115,140					
531	0.0	0.08	0.06	0.10	130,130,140	20.0	0.08	0.06	0.10	120,120,140
	40.0	0.08	0.06	0.10	120,120,140					
532	0.0	0.09	0.06	0.11	115,115,140	20.0	0.09	0.07	0.11	115,115,140
	40.0	0.10	0.07	0.11	115,115,140					
533	0.0	0.09	0.06	0.10	120,120,140	20.0	0.09	0.06	0.11	120,120,140
	40.0	0.09	0.06	0.11	120,120,140					
534	0.0	0.10	0.07	0.12	115,115,140	20.0	0.10	0.07	0.11	120,120,140
	40.0	0.10	0.07	0.11	120,120,140					
535	0.0	0.10	0.07	0.11	120,120,140	20.0	0.09	0.07	0.11	123,120,140
	40.0	0.10	0.07	0.11	123,123,140					
536	0.0	0.20	0.14	0.24	120,120,140	20.0	0.19	0.13	0.22	120,120,140
	40.0	0.18	0.12	0.21	120,120,140					
537	0.0	0.19	0.13	0.22	115,115,140	20.0	0.18	0.12	0.21	115,115,140
	40.0	0.17	0.12	0.19	115,115,140					
538	0.0	0.17	0.12	0.20	120,120,140	20.0	0.17	0.12	0.20	120,120,140
	40.0	0.17	0.12	0.20	120,120,140					
539	0.0	0.17	0.12	0.20	115,115,140	20.0	0.17	0.12	0.20	120,120,140
	40.0	0.17	0.12	0.20	120,120,140					
540	0.0	0.18	0.12	0.21	120,120,140	20.0	0.16	0.11	0.19	120,120,140
	40.0	0.15	0.11	0.18	120,120,140					
541	0.0	0.17	0.12	0.19	115,115,140	20.0	0.16	0.11	0.18	115,115,140
	40.0	0.15	0.10	0.17	115,115,140					
542	0.0	0.15	0.11	0.18	120,120,140	20.0	0.16	0.11	0.19	120,120,140
	40.0	0.16	0.11	0.19	120,120,140					
543	0.0	0.15	0.10	0.17	115,115,140	20.0	0.15	0.11	0.18	115,115,140
	40.0	0.16	0.11	0.19	115,115,140					
Pilas.		rRfck	rRfyk	rPfck			rRfck	rRfyk	rPfck	
		0.20	0.14	0.24						

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	cm					mm	mm	mm		cm	cm	cm	
51	0.0	2.45e-04	2.52e-04	2.31e-04	120,120,140	0.0	0.0	0.0	0,0,0	-0.27	-0.25	-0.24	115,135,140
	68.7	0.05	0.10	0.06	120,125,140	0.0	0.0	0.0	0,0,0				
	137.5	0.09	0.19	0.11	120,125,140	0.0	0.0	0.0	0,0,0				
53	0.0	2.66e-03	2.73e-03	1.76e-03	117,117,140	0.0	0.0	0.0	0,0,0	-0.38	-0.26	-0.23	125,135,140
	68.8	0.13	0.37	0.14	115,125,140	0.0	0.0	0.0	0,0,0				
	137.5	0.26	0.71	0.26	115,125,140	0.21	0.19	0.17	125,135,140				
54	0.0	0.27	0.56	0.32	120,125,140	0.12	0.11	0.11	125,135,140	0.33	0.31	0.30	120,135,140
	62.5	0.24	0.51	0.29	120,125,140	0.10	0.10	0.10	125,135,140				
	125.0	0.22	0.46	0.26	120,125,140	0.09	0.09	0.09	125,135,140				
56	0.0	0.24	0.68	0.25	115,125,140	0.21	0.18	0.16	125,135,140	0.08	0.05	0.05	115,135,140
	62.5	0.13	0.35	0.13	115,125,140	0.0	0.0	0.0	0,0,0				
	125.0	2.68e-03	2.74e-03	1.73e-03	117,117,140	0.0	0.0	0.0	0,0,0				
57	0.0	0.24	0.68	0.25	120,125,140	0.21	0.18	0.16	125,135,140	0.22	0.20	0.19	125,135,140
	62.5	0.25	0.71	0.26	120,125,140	0.21	0.19	0.18	125,135,140				
	125.0	0.26	0.71	0.26	120,125,140	0.22	0.19	0.18	125,135,140				
59	0.0	0.09	0.19	0.11	120,125,140	0.0	0.0	0.0	0,0,0	-0.23	-0.21	-0.21	115,135,140
	62.5	0.13	0.27	0.15	120,125,140	0.0	0.0	0.0	0,0,0				
	125.0	0.16	0.34	0.19	120,125,140	0.07	0.0	0.0	125,0,0				
61	0.0	0.26	0.71	0.26	115,125,140	0.21	0.19	0.17	125,135,140	-0.21	-0.19	-0.17	125,135,140

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	62.5	0.25	0.70	0.26	115,125,140	0.21	0.19	0.17	125,135,140				
	125.0	0.24	0.68	0.25	115,125,140	0.21	0.18	0.16	125,135,140				
63	0.0	0.22	0.46	0.26	120,125,140	0.09	0.09	0.09	125,135,140	0.23	0.20	0.20	120,135,140
	62.5	0.14	0.20	0.17	120,125,140	0.03	0.03	0.03	125,135,140				
	125.0	0.12	0.17	0.14	120,125,140	0.0	0.0	0.0	0,0,0				
65	0.0	0.26	0.71	0.26	120,125,140	0.22	0.19	0.18	125,135,140	0.39	0.26	0.24	125,135,140
	68.8	0.13	0.37	0.14	120,125,140	0.0	0.0	0.0	0,0,0				
	137.5	2.06e-03	4.46e-03	1.22e-03	123,127,140	0.0	0.0	0.0	0,0,0				
69	0.0	0.16	0.34	0.19	120,125,140	0.07	0.0	0.0	125,0,0	-0.38	-0.36	-0.34	115,135,140
	62.5	0.19	0.40	0.23	120,125,140	0.08	0.08	0.07	125,135,140				
	125.0	0.22	0.46	0.26	120,125,140	0.09	0.09	0.09	125,135,140				
71	0.0	0.12	0.17	0.14	120,125,140	0.0	0.0	0.0	0,0,0	0.21	0.20	0.19	120,135,140
	62.5	0.13	0.27	0.15	120,125,140	0.0	0.0	0.0	0,0,0				
	125.0	0.09	0.19	0.11	120,125,140	0.0	0.0	0.0	0,0,0				
75	0.0	0.22	0.46	0.26	120,125,140	0.09	0.09	0.09	125,135,140	-0.33	-0.31	-0.30	115,135,140
	62.5	0.24	0.51	0.29	120,125,140	0.10	0.10	0.10	125,135,140				
	125.0	0.27	0.56	0.32	120,125,140	0.12	0.11	0.11	125,135,140				
77	0.0	0.09	0.19	0.11	120,125,140	0.0	0.0	0.0	0,0,0	0.27	0.24	0.24	120,135,140
	68.8	0.05	0.10	0.06	120,125,140	0.0	0.0	0.0	0,0,0				
	137.5	2.45e-04	2.52e-04	2.31e-04	120,120,140	0.0	0.0	0.0	0,0,0				
80	0.0	0.27	0.56	0.32	120,125,140	0.12	0.11	0.11	125,135,140	-0.26	-0.24	-0.24	115,135,140
	62.5	0.28	0.60	0.34	120,125,140	0.12	0.12	0.11	125,135,140				
	125.0	0.30	0.64	0.36	120,125,140	0.13	0.12	0.12	125,135,140				
83	0.0	0.30	0.64	0.36	120,125,140	0.13	0.12	0.12	125,135,140	-0.17	-0.16	-0.15	115,135,140
	62.5	0.31	0.66	0.37	120,125,140	0.14	0.13	0.13	125,135,140				
	125.0	0.32	0.69	0.39	120,125,140	0.14	0.13	0.13	125,135,140				
87	0.0	0.32	0.69	0.39	120,125,140	0.14	0.13	0.13	125,135,140	-0.09	-0.09	-0.08	115,135,140
	62.5	0.33	0.70	0.40	120,125,140	0.15	0.14	0.13	125,135,140				
	125.0	0.33	0.71	0.40	120,125,140	0.15	0.14	0.14	125,135,140				
91	0.0	0.33	0.71	0.40	120,125,140	0.15	0.14	0.14	125,135,140	-0.01	-0.01	-0.01	115,135,140
	62.5	0.34	0.71	0.40	120,125,140	0.15	0.14	0.14	125,135,140				
	125.0	0.33	0.71	0.40	120,125,140	0.15	0.14	0.14	125,135,140				
94	0.0	0.33	0.71	0.40	120,125,140	0.15	0.14	0.14	125,135,140	0.09	0.08	0.08	120,135,140
	62.5	0.33	0.70	0.40	120,125,140	0.15	0.14	0.13	125,135,140				
	125.0	0.32	0.69	0.39	120,125,140	0.14	0.13	0.13	125,135,140				
96	0.0	0.32	0.69	0.39	120,125,140	0.14	0.13	0.13	125,135,140	0.18	0.16	0.16	120,135,140
	62.5	0.31	0.66	0.37	120,125,140	0.14	0.13	0.13	125,135,140				
	125.0	0.30	0.64	0.36	120,125,140	0.13	0.12	0.12	125,135,140				
98	0.0	0.30	0.64	0.36	120,125,140	0.13	0.12	0.12	125,135,140	0.26	0.24	0.23	120,135,140
	62.5	0.28	0.60	0.34	120,125,140	0.12	0.12	0.11	125,135,140				
	125.0	0.27	0.56	0.32	120,125,140	0.12	0.11	0.11	125,135,140				
158	0.0	6.27e-03	6.43e-03	5.63e-03	117,117,140	0.0	0.0	0.0	0,0,0	-0.22	-0.16	-0.15	125,135,140
	62.5	0.13	0.31	0.13	115,125,140	0.0	0.0	0.0	0,0,0				
	125.0	0.24	0.63	0.24	115,125,140	0.19	0.0	0.0	125,0,0				
159	0.0	5.50e-03	5.63e-03	4.81e-03	133,133,140	0.0	0.0	0.0	0,0,0	-0.12	-0.09	-0.08	130,135,140
	62.5	0.12	0.32	0.13	130,125,140	0.0	0.0	0.0	0,0,0				
	125.0	0.24	0.63	0.24	130,125,140	0.19	0.0	0.0	125,0,0				
160	0.0	2.12e-03	4.21e-03	1.25e-03	123,127,140	0.0	0.0	0.0	0,0,0	-0.08	-0.05	-0.04	120,135,140
	62.5	0.13	0.35	0.13	120,125,140	0.0	0.0	0.0	0,0,0				
	125.0	0.24	0.68	0.25	120,125,140	0.21	0.18	0.16	125,135,140				
167	0.0	0.24	0.63	0.24	115,125,140	0.19	0.0	0.0	125,0,0	-0.08	-0.08	-0.03	125,135,140
	62.5	0.24	0.64	0.25	115,125,140	0.19	0.16	0.0	125,135,0				
	125.0	0.24	0.63	0.24	115,125,140	0.19	0.0	0.0	125,0,0				
168	0.0	0.24	0.63	0.24	115,125,140	0.19	0.0	0.0	125,0,0	0.12	0.09	0.09	130,135,140
	62.5	0.13	0.31	0.13	115,125,140	0.0	0.0	0.0	0,0,0				
	125.0	6.28e-03	6.44e-03	5.61e-03	117,117,140	0.0	0.0	0.0	0,0,0				
169	0.0	0.24	0.63	0.24	130,125,140	0.19	0.0	0.0	125,0,0	0.09	0.08	0.04	125,135,140
	62.5	0.24	0.64	0.25	130,125,140	0.20	0.16	0.0	125,135,0				
	125.0	0.24	0.63	0.24	130,125,140	0.19	0.0	0.0	125,0,0				
170	0.0	0.24	0.63	0.24	130,125,140	0.19	0.0	0.0	125,0,0	0.23	0.16	0.16	125,135,140
	62.5	0.12	0.32	0.13	130,125,140	0.0	0.0	0.0	0,0,0				
	125.0	5.48e-03	5.62e-03	4.79e-03	133,133,140	0.0	0.0	0.0	0,0,0				
174	0.0	1.85e-03	1.89e-03	1.81e-03	133,133,140	0.0	0.0	0.0	0,0,0	-0.03	-0.03	-0.03	125,138,140
	21.1	0.01	0.02	0.02	130,128,140	0.0	0.0	0.0	0,0,0				
	42.2	0.05	0.10	0.06	130,125,140	0.0	0.0	0.0	0,0,0				
175	0.0	3.42e-03	3.52e-03	3.36e-03	133,133,140	0.0	0.0	0.0	0,0,0	-0.03	-0.02	-0.02	128,138,140
	21.1	0.02	0.03	0.02	120,128,140	0.0	0.0	0.0	0,0,0				
	42.2	0.07	0.14	0.07	130,125,140	0.0	0.0	0.0	0,0,0				
176	0.0	3.15e-03	3.21e-03	3.09e-03	133,133,140	0.0	0.0	0.0	0,0,0	-0.03	-0.02	-0.02	128,138,140
	21.1	0.01	0.02	0.02	130,128,140	0.0	0.0	0.0	0,0,0				

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	42.2	0.05	0.09	0.06	130,125,140	0.0	0.0	0.0	0,0,0				
177	0.0	1.65e-03	1.68e-03	1.56e-03	133,133,140	0.0	0.0	0.0	0,0,0	-0.04	-0.03	-0.03	125,138,140
	21.1	0.01	0.02	0.02	130,125,140	0.0	0.0	0.0	0,0,0				
	42.2	0.05	0.10	0.06	130,125,140	0.0	0.0	0.0	0,0,0				
178	0.0	1.49e-03	1.52e-03	1.43e-03	130,130,140	0.0	0.0	0.0	0,0,0	-0.04	-0.03	-0.03	125,138,140
	21.1	0.01	0.02	0.01	130,125,140	0.0	0.0	0.0	0,0,0				
	42.2	0.0	5.52e-03	0.0	0,128,0	0.0	0.0	0.0	0,0,0				
179	0.0	0.0	0.05	0.0	0,125,0	0.0	0.0	0.0	0,0,0	-0.04	-0.04	-0.03	125,135,140
	21.1	0.0	0.07	0.0	0,125,0	0.0	0.0	0.0	0,0,0				
	42.2	0.0	0.06	0.0	0,125,0	0.0	0.0	0.0	0,0,0				
180	0.0	0.0	0.01	0.0	0,120,0	0.0	0.0	0.0	0,0,0	-0.04	-0.03	-0.02	128,138,140
	21.1	0.01	0.06	0.02	115,120,140	0.0	0.0	0.0	0,0,0				
	42.2	0.0	0.03	0.0	0,120,0	0.0	0.0	0.0	0,0,0				
181	0.0	2.05e-03	2.11e-03	2.00e-03	130,130,140	0.0	0.0	0.0	0,0,0	-0.03	-0.02	-0.02	128,138,140
	21.1	0.02	0.03	0.02	130,125,140	0.0	0.0	0.0	0,0,0				
	42.2	7.73e-05	6.18e-03	0.0	133,127,0	0.0	0.0	0.0	0,0,0				
182	0.0	0.0	8.73e-03	0.0	0,115,0	0.0	0.0	0.0	0,0,0	-0.03	-0.02	-0.02	128,138,140
	21.1	0.01	0.03	0.01	120,115,140	0.0	0.0	0.0	0,0,0				
	42.2	0.0	0.02	0.0	0,115,0	0.0	0.0	0.0	0,0,0				
183	0.0	1.95e-03	1.99e-03	1.91e-03	130,130,140	0.0	0.0	0.0	0,0,0	-0.03	-0.02	-0.02	128,138,140
	21.1	0.01	0.02	0.01	130,125,140	0.0	0.0	0.0	0,0,0				
	42.2	7.94e-05	3.98e-03	0.0	133,127,0	0.0	0.0	0.0	0,0,0				
184	0.0	0.0	0.05	0.0	0,125,0	0.0	0.0	0.0	0,0,0	-0.05	-0.04	-0.04	125,135,140
	21.1	0.0	0.07	0.0	0,125,0	0.0	0.0	0.0	0,0,0				
	42.2	0.0	0.06	0.0	0,125,0	0.0	0.0	0.0	0,0,0				
185	0.0	1.31e-03	1.33e-03	1.21e-03	130,130,140	0.0	0.0	0.0	0,0,0	-0.04	-0.03	-0.03	125,138,140
	21.1	0.01	0.02	0.01	130,125,140	0.0	0.0	0.0	0,0,0				
	42.2	0.0	6.28e-03	0.0	0,128,0	0.0	0.0	0.0	0,0,0				
301	0.0	7.71e-03	0.02	8.05e-03	120,125,140	0.0	0.0	0.0	0,0,0	-0.20	-0.18	-0.17	120,135,140
	179.5	0.09	0.34	0.10	130,125,140	0.0	0.0	0.0	0,0,0				
	359.0	0.03	0.11	0.04	130,125,140	0.0	0.0	0.0	0,0,0				
302	0.0	0.03	0.09	0.04	130,125,140	0.0	0.0	0.0	0,0,0	-0.05	-0.05	-0.04	120,135,140
	185.0	0.07	0.25	0.08	130,125,140	0.0	0.0	0.0	0,0,0				
	370.0	0.06	0.22	0.07	130,125,140	0.0	0.0	0.0	0,0,0				
303	0.0	0.06	0.23	0.07	130,125,140	0.0	0.0	0.0	0,0,0	-0.02	-0.02	-0.02	115,135,140
	185.0	0.05	0.17	0.06	130,125,140	0.0	0.0	0.0	0,0,0				
	370.0	0.07	0.25	0.08	130,125,140	0.0	0.0	0.0	0,0,0				
304	0.0	0.07	0.26	0.08	130,125,140	0.0	0.0	0.0	0,0,0	0.05	0.04	0.04	130,135,140
	185.0	0.05	0.18	0.06	130,125,140	0.0	0.0	0.0	0,0,0				
	370.0	0.06	0.23	0.07	130,125,140	0.0	0.0	0.0	0,0,0				
305	0.0	0.06	0.25	0.07	130,125,140	0.0	0.0	0.0	0,0,0	0.06	0.05	0.05	130,135,140
	185.0	0.02	0.09	0.03	130,125,140	0.0	0.0	0.0	0,0,0				
	370.0	0.12	0.47	0.14	130,125,140	0.0	0.0	0.0	0,0,0				
306	0.0	0.12	0.48	0.14	130,130,140	0.0	0.0	0.0	0,0,0	-0.04	-0.03	-0.03	130,135,140
	185.0	0.02	0.09	0.02	125,125,140	0.0	0.0	0.0	0,0,0				
	370.0	0.05	0.21	0.06	125,115,140	0.0	0.0	0.0	0,0,0				
307	0.0	0.05	0.21	0.06	125,125,140	0.0	0.0	0.0	0,0,0	-0.03	-0.03	-0.02	130,135,140
	185.0	0.07	0.28	0.08	130,130,140	0.0	0.0	0.0	0,0,0				
	370.0	0.02	0.08	0.02	115,115,140	0.0	0.0	0.0	0,0,0				
308	0.0	0.02	0.08	0.02	115,115,140	0.0	0.0	0.0	0,0,0	0.19	0.17	0.17	130,135,140
	185.0	0.09	0.37	0.11	130,130,140	0.0	0.0	0.0	0,0,0				
	370.0	2.46e-03	0.01	2.79e-03	130,125,140	0.0	0.0	0.0	0,0,0				
309	0.0	8.21e-04	8.04e-04	9.37e-04	125,125,140	0.0	0.0	0.0	0,0,0	-0.17	-0.15	-0.15	125,135,140
	185.0	0.08	0.33	0.10	125,130,140	0.0	0.0	0.0	0,0,0				
	370.0	0.04	0.16	0.05	130,130,140	0.0	0.0	0.0	0,0,0				
310	0.0	0.04	0.16	0.05	130,130,140	0.0	0.0	0.0	0,0,0	-0.12	-0.11	-0.10	130,135,140
	185.0	9.16e-03	0.03	8.35e-03	130,130,140	0.0	0.0	0.0	0,0,0				
	370.0	0.19	0.74	0.21	130,130,140	0.0	0.0	0.0	0,0,0				
311	0.0	0.19	0.74	0.21	130,130,140	0.0	0.0	0.0	0,0,0	-0.48	-0.42	-0.40	130,135,140
	185.0	0.08	0.33	0.09	130,130,140	0.0	0.0	0.0	0,0,0				
	370.0	0.19	0.74	0.21	115,120,140	0.0	0.0	0.0	0,0,0				
312	0.0	1.64e-03	1.69e-03	1.43e-03	133,133,140	0.0	0.0	0.0	0,0,0	1.05	1.01	1.00	120,135,140
	211.5	0.04	0.11	0.05	133,127,140	0.0	0.0	0.0	0,0,0				
	423.0	1.64e-03	1.69e-03	1.43e-03	133,133,140	0.0	0.0	0.0	0,0,0				
359	0.0	0.06	0.16	0.06	115,115,140	0.0	0.0	0.0	0,0,0	-0.44	-0.36	-0.34	120,135,140
	50.0	0.04	0.10	0.04	115,115,140	0.0	0.0	0.0	0,0,0				
	100.0	0.02	0.05	0.02	117,117,140	0.0	0.0	0.0	0,0,0				
360	0.0	0.04	0.13	0.04	115,115,140	0.0	0.0	0.0	0,0,0	-0.24	-0.21	-0.20	120,135,140
	50.0	0.02	0.07	0.02	115,115,140	0.0	0.0	0.0	0,0,0				
	100.0	8.19e-03	0.03	8.56e-03	116,117,140	0.0	0.0	0.0	0,0,0				

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
361	0.0	0.02	0.06	0.01	115,115,140	0.0	0.0	0.0	0,0,0	0.03	0.02	0.01	120,135,140
	50.0	0.02	0.04	0.01	117,115,140	0.0	0.0	0.0	0,0,0				
	100.0	0.01	0.02	6.01e-03	117,117,140	0.0	0.0	0.0	0,0,0				
362	0.0	0.01	0.06	0.01	120,120,140	0.0	0.0	0.0	0,0,0	0.12	0.10	0.10	125,135,140
	48.4	0.02	0.07	0.02	120,120,140	0.0	0.0	0.0	0,0,0				
	96.9	0.01	0.06	0.02	120,120,140	0.0	0.0	0.0	0,0,0				
363	0.0	0.06	0.13	0.07	120,125,140	0.0	0.0	0.0	0,0,0	-0.04	-0.04	-0.04	125,135,140
	46.9	0.05	0.09	0.05	120,120,140	0.0	0.0	0.0	0,0,0				
	93.8	0.04	0.07	0.04	120,120,140	0.0	0.0	0.0	0,0,0				
364	0.0	0.11	0.23	0.12	117,115,140	0.0	0.0	0.0	0,0,0	-0.06	-0.06	-0.05	120,135,140
	46.9	0.09	0.17	0.09	117,117,140	0.0	0.0	0.0	0,0,0				
	93.8	0.07	0.13	0.07	117,117,140	0.0	0.0	0.0	0,0,0				
365	0.0	0.08	0.22	0.08	115,115,140	0.0	0.0	0.0	0,0,0	8.53e-03	6.62e-03	6.27e-03	123,137,140
	20.8	0.07	0.21	0.08	117,115,140	0.0	0.0	0.0	0,0,0				
	41.7	0.07	0.21	0.08	117,115,140	0.0	0.0	0.0	0,0,0				
366	0.0	0.07	0.14	0.07	115,115,140	0.0	0.0	0.0	0,0,0	0.12	0.10	0.09	115,135,140
	48.4	0.04	0.08	0.04	115,125,140	0.0	0.0	0.0	0,0,0				
	96.9	0.02	0.03	0.02	125,125,140	0.0	0.0	0.0	0,0,0				
367	0.0	0.06	0.20	0.07	115,115,140	0.0	0.0	0.0	0,0,0	-6.75e-03	-4.73e-03	-4.31e-03	123,137,140
	20.8	0.07	0.21	0.07	115,115,140	0.0	0.0	0.0	0,0,0				
	41.7	0.08	0.22	0.08	115,115,140	0.0	0.0	0.0	0,0,0				
368	0.0	0.05	0.16	0.06	115,115,140	0.0	0.0	0.0	0,0,0	-5.12e-03	-3.04e-03	-2.57e-03	123,137,140
	20.8	0.06	0.18	0.06	115,115,140	0.0	0.0	0.0	0,0,0				
	41.7	0.06	0.19	0.07	115,115,140	0.0	0.0	0.0	0,0,0				
369	0.0	0.04	0.15	0.05	125,125,140	0.0	0.0	0.0	0,0,0	3.69e-03	1.61e-03	1.11e-03	123,137,140
	20.8	0.05	0.15	0.05	115,115,140	0.0	0.0	0.0	0,0,0				
	41.7	0.05	0.16	0.06	115,115,140	0.0	0.0	0.0	0,0,0				
370	0.0	0.04	0.15	0.05	125,125,140	0.0	0.0	0.0	0,0,0	-3.00e-03	-7.42e-04	-1.74e-04	117,136,140
	20.8	0.04	0.14	0.05	125,125,140	0.0	0.0	0.0	0,0,0				
	41.7	0.04	0.15	0.05	125,125,140	0.0	0.0	0.0	0,0,0				
371	0.0	0.05	0.16	0.05	120,120,140	0.0	0.0	0.0	0,0,0	-4.33e-03	-2.00e-03	-1.45e-03	117,136,140
	20.8	0.04	0.15	0.05	120,125,140	0.0	0.0	0.0	0,0,0				
	41.7	0.04	0.15	0.05	125,125,140	0.0	0.0	0.0	0,0,0				
372	0.0	0.06	0.19	0.06	120,120,140	0.0	0.0	0.0	0,0,0	-5.70e-03	-3.39e-03	-2.86e-03	117,136,140
	20.8	0.05	0.17	0.06	120,120,140	0.0	0.0	0.0	0,0,0				
	41.7	0.05	0.16	0.05	120,120,140	0.0	0.0	0.0	0,0,0				
373	0.0	0.07	0.21	0.08	120,120,140	0.0	0.0	0.0	0,0,0	7.23e-03	5.00e-03	4.53e-03	117,136,140
	20.8	0.07	0.20	0.07	120,120,140	0.0	0.0	0.0	0,0,0				
	41.7	0.06	0.19	0.06	120,120,140	0.0	0.0	0.0	0,0,0				
374	0.0	0.07	0.21	0.07	123,120,140	0.0	0.0	0.0	0,0,0	8.89e-03	6.80e-03	6.40e-03	117,136,140
	20.8	0.07	0.21	0.07	120,120,140	0.0	0.0	0.0	0,0,0				
	41.7	0.07	0.21	0.08	120,120,140	0.0	0.0	0.0	0,0,0				
375	0.0	0.01	0.05	0.01	120,125,140	0.0	0.0	0.0	0,0,0	8.39e-03	7.67e-03	7.52e-03	117,136,140
	18.3	0.01	0.05	0.01	120,120,140	0.0	0.0	0.0	0,0,0				
	36.7	0.01	0.05	0.01	120,120,140	0.0	0.0	0.0	0,0,0				
376	0.0	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0	3.61e-03	2.92e-03	2.77e-03	117,136,140
	18.3	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
	36.7	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
377	0.0	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0	3.07e-03	2.44e-03	2.29e-03	117,136,140
	18.3	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
	36.7	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
378	0.0	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0	2.57e-03	1.97e-03	1.83e-03	116,136,140
	18.3	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
	36.7	0.01	0.04	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
379	0.0	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0	-2.13e-03	-1.53e-03	-1.38e-03	116,136,140
	18.9	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
	37.8	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
380	0.0	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0	-1.60e-03	-1.01e-03	-8.69e-04	116,136,140
	18.9	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
	37.8	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
381	0.0	9.99e-03	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0	1.08e-03	5.05e-04	3.65e-04	116,136,140
	18.9	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
	37.8	0.01	0.05	0.01	115,115,140	0.0	0.0	0.0	0,0,0				
382	0.0	7.37e-03	0.04	8.20e-03	125,115,140	0.0	0.0	0.0	0,0,0	-9.82e-04	-2.39e-04	-9.44e-05	123,137,140
	18.9	8.58e-03	0.05	9.65e-03	125,115,140	0.0	0.0	0.0	0,0,0				
	37.8	9.08e-03	0.05	0.01	125,115,140	0.0	0.0	0.0	0,0,0				
383	0.0	2.32e-03	0.04	1.30e-03	128,130,140	0.0	0.0	0.0	0,0,0	1.37e-03	6.12e-04	4.71e-04	123,137,140
	18.9	4.37e-03	0.04	4.28e-03	125,130,140	0.0	0.0	0.0	0,0,0				
	37.8	5.45e-03	0.05	5.64e-03	125,115,140	0.0	0.0	0.0	0,0,0				
384	0.0	0.0	0.03	0.0	0,133,0	0.0	0.0	0.0	0,0,0	-1.60e-03	-8.49e-04	-7.11e-04	123,137,140

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	18.9	0.0	0.04	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
	37.8	0.0	0.04	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
385	0.0	0.0	0.06	0.0	0,130,0	0.0	0.0	0.0	0,0,0	-1.21e-03	-6.41e-04	-3.26e-04	123,137,140
	18.9	0.0	0.05	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
	37.8	0.0	0.04	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
386	0.0	0.0	0.10	0.0	0,130,0	0.0	0.0	0.0	0,0,0	1.84e-03	9.67e-04	8.09e-04	123,137,140
	18.9	0.0	0.09	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
	37.8	0.0	0.08	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
387	0.0	2.08e-03	0.15	1.59e-03	117,130,140	0.0	0.0	0.0	0,0,0	1.47e-03	6.27e-04	4.70e-04	123,137,140
	18.9	0.0	0.14	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
	37.8	0.0	0.13	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
388	0.0	8.74e-03	0.17	0.01	115,130,140	0.0	0.0	0.0	0,0,0	-9.23e-04	-1.98e-04	-7.31e-05	123,136,140
	18.8	2.57e-03	0.16	2.48e-03	117,130,140	0.0	0.0	0.0	0,0,0				
	37.5	0.0	0.16	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
389	0.0	0.01	0.19	0.01	125,130,140	0.0	0.0	0.0	0,0,0	1.47e-03	8.46e-04	6.93e-04	116,136,140
	18.8	6.50e-03	0.18	7.49e-03	125,130,140	0.0	0.0	0.0	0,0,0				
	37.5	4.80e-03	0.18	5.49e-03	125,130,140	0.0	0.0	0.0	0,0,0				
390	0.0	0.01	0.20	0.01	123,130,140	0.0	0.0	0.0	0,0,0	2.20e-03	1.57e-03	1.42e-03	116,136,140
	18.8	8.20e-03	0.19	9.20e-03	120,130,140	0.0	0.0	0.0	0,0,0				
	37.5	8.37e-03	0.19	9.75e-03	125,130,140	0.0	0.0	0.0	0,0,0				
391	0.0	6.16e-03	0.21	4.25e-03	123,130,140	0.0	0.0	0.0	0,0,0	2.95e-03	2.32e-03	2.17e-03	116,136,140
	18.8	5.10e-03	0.21	3.68e-03	123,130,140	0.0	0.0	0.0	0,0,0				
	37.5	6.32e-03	0.21	6.24e-03	123,130,140	0.0	0.0	0.0	0,0,0				
392	0.0	4.75e-03	0.20	1.31e-05	122,130,140	0.0	0.0	0.0	0,0,0	3.66e-03	3.05e-03	2.91e-03	116,136,140
	18.8	4.53e-03	0.20	8.97e-04	123,130,140	0.0	0.0	0.0	0,0,0				
	37.5	6.61e-03	0.20	5.00e-03	123,130,140	0.0	0.0	0.0	0,0,0				
393	0.0	5.39e-03	0.18	0.0	122,120,0	0.0	0.0	0.0	0,0,0	4.32e-03	3.73e-03	3.59e-03	117,136,140
	18.8	6.04e-03	0.18	1.05e-03	123,120,140	0.0	0.0	0.0	0,0,0				
	37.5	8.79e-03	0.19	6.24e-03	123,120,140	0.0	0.0	0.0	0,0,0				
394	0.0	0.0	0.17	0.0	0,120,0	0.0	0.0	0.0	0,0,0	4.94e-03	4.35e-03	4.22e-03	117,136,140
	18.8	1.47e-03	0.17	0.0	122,120,0	0.0	0.0	0.0	0,0,0				
	37.5	6.16e-03	0.18	2.87e-04	123,120,140	0.0	0.0	0.0	0,0,0				
395	0.0	0.0	0.16	0.0	0,120,0	0.0	0.0	0.0	0,0,0	-5.55e-03	4.94e-03	4.82e-03	117,136,140
	18.8	0.0	0.17	0.0	0,120,0	0.0	0.0	0.0	0,0,0				
	37.5	0.0	0.18	0.0	0,120,0	0.0	0.0	0.0	0,0,0				
396	0.0	0.0	0.12	0.0	0,130,0	0.0	0.0	0.0	0,0,0	-0.02	-0.02	-0.02	117,136,140
	60.0	0.0	0.12	0.0	0,120,0	0.0	0.0	0.0	0,0,0				
	120.0	0.0	0.15	0.0	0,120,0	0.0	0.0	0.0	0,0,0				
397	0.0	0.0	0.12	0.0	0,130,0	0.0	0.0	0.0	0,0,0	-0.01	-0.01	-0.01	115,135,140
	25.0	0.0	0.13	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
	50.0	0.0	0.13	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
398	0.0	0.0	0.12	0.0	0,115,0	0.0	0.0	0.0	0,0,0	0.02	0.01	0.01	115,135,140
	90.0	0.0	0.09	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
	180.0	0.0	0.11	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
399	0.0	0.0	0.15	0.0	0,115,0	0.0	0.0	0.0	0,0,0	-7.34e-03	-7.09e-03	-7.02e-03	115,135,140
	25.0	0.0	0.14	0.0	0,115,0	0.0	0.0	0.0	0,0,0				
	50.0	0.0	0.14	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
400	0.0	0.01	0.17	6.01e-03	117,115,140	0.0	0.0	0.0	0,0,0	-0.02	-0.02	-0.02	115,135,140
	60.0	0.0	0.14	0.0	0,115,0	0.0	0.0	0.0	0,0,0				
	120.0	0.0	0.14	0.0	0,130,0	0.0	0.0	0.0	0,0,0				
401	0.0	7.09e-03	0.18	8.11e-03	117,130,140	0.0	0.0	0.0	0,0,0	-0.01	-0.01	-0.01	115,135,140
	22.5	0.01	0.19	0.01	117,130,140	0.0	0.0	0.0	0,0,0				
	45.0	0.02	0.19	0.02	117,130,140	0.0	0.0	0.0	0,0,0				
402	0.0	9.23e-03	0.05	9.72e-03	120,120,140	0.0	0.0	0.0	0,0,0	0.01	9.23e-03	9.09e-03	117,136,140
	18.9	9.01e-03	0.05	9.50e-03	120,120,140	0.0	0.0	0.0	0,0,0				
	37.8	8.27e-03	0.04	8.64e-03	120,120,140	0.0	0.0	0.0	0,0,0				
403	0.0	0.01	0.21	0.01	117,130,140	0.0	0.0	0.0	0,0,0	-0.01	-9.84e-03	-9.70e-03	115,136,140
	22.5	0.01	0.21	0.01	117,130,140	0.0	0.0	0.0	0,0,0				
	45.0	0.01	0.21	0.01	117,115,140	0.0	0.0	0.0	0,0,0				
404	0.0	0.01	0.05	0.01	120,120,140	0.0	0.0	0.0	0,0,0	9.36e-03	8.58e-03	8.44e-03	117,136,140
	18.3	0.01	0.05	0.01	120,120,140	0.0	0.0	0.0	0,0,0				
	36.7	0.01	0.05	0.01	120,120,140	0.0	0.0	0.0	0,0,0				
405	0.0	7.33e-03	0.05	7.33e-03	120,120,140	0.0	0.0	0.0	0,0,0	0.01	9.58e-03	9.45e-03	115,136,140
	18.9	7.00e-03	0.05	6.96e-03	120,120,140	0.0	0.0	0.0	0,0,0				
	37.8	6.11e-03	0.04	5.89e-03	120,120,140	0.0	0.0	0.0	0,0,0				
406	0.0	0.02	0.20	0.02	117,115,140	0.0	0.0	0.0	0,0,0	9.49e-03	8.64e-03	8.51e-03	115,136,140
	22.5	0.01	0.20	0.01	117,115,140	0.0	0.0	0.0	0,0,0				
	45.0	0.01	0.20	0.01	117,115,140	0.0	0.0	0.0	0,0,0				
407	0.0	0.01	0.05	0.01	120,120,140	0.0	0.0	0.0	0,0,0	-8.90e-03	-8.14e-03	-8.00e-03	117,136,140
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Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
611	96.9	0.02	0.07	0.02	115,115,140	0.0	0.0	0.0	0,0,0	0.12	0.10	0.09	125,135,140
Trave		rRfck	rRfyk	rPfck		wR	wF	wP		dR	dF	dP	
		0.73	0.76	0.91		0.22	0.19	0.18		1.05	1.01	1.00	

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
1	0.09	0.06	0.10	115,115,140	0.0	0.0	0.0	0,0,0
2	0.08	0.06	0.10	115,117,140	0.0	0.0	0.0	0,0,0
3	0.08	0.23	0.10	115,117,140	0.0	0.0	0.0	0,0,0
4	0.08	0.32	0.10	115,117,140	0.0	0.0	0.0	0,0,0
5	0.08	0.32	0.10	115,117,140	0.0	0.0	0.0	0,0,0
6	0.09	0.25	0.11	115,117,140	0.0	0.0	0.0	0,0,0
7	0.09	0.07	0.11	115,115,140	0.0	0.0	0.0	0,0,0
8	0.11	0.08	0.12	120,120,140	0.0	0.0	0.0	0,0,0
9	0.08	0.06	0.10	115,115,140	0.0	0.0	0.0	0,0,0
10	0.13	0.09	0.16	115,115,140	0.0	0.0	0.0	0,0,0
11	0.09	0.28	0.10	115,115,140	0.0	0.0	0.0	0,0,0
12	0.08	0.23	0.10	115,117,140	0.0	0.0	0.0	0,0,0
13	0.08	0.20	0.09	115,117,140	0.0	0.0	0.0	0,0,0
14	0.08	0.10	0.10	115,117,140	0.0	0.0	0.0	0,0,0
15	0.10	0.07	0.11	115,115,140	0.0	0.0	0.0	0,0,0
16	0.11	0.08	0.13	120,120,140	0.0	0.0	0.0	0,0,0
17	0.07	0.28	0.09	130,115,140	0.0	0.0	0.0	0,0,0
18	0.05	0.79	0.06	125,125,140	0.0	0.0	0.0	0,0,0
19	0.07	0.62	0.08	115,115,140	0.0	0.0	0.0	0,0,0
20	0.06	0.15	0.07	125,115,140	0.0	0.0	0.0	0,0,0
21	0.06	0.04	0.07	125,125,140	0.0	0.0	0.0	0,0,0
22	0.07	0.05	0.08	125,125,140	0.0	0.0	0.0	0,0,0
23	0.07	0.05	0.09	115,115,140	0.0	0.0	0.0	0,0,0
24	0.07	0.05	0.09	115,115,140	0.0	0.0	0.0	0,0,0
25	0.03	0.14	0.03	117,120,140	0.0	0.0	0.0	0,0,0
26	0.07	0.12	0.09	125,115,140	0.0	0.0	0.0	0,0,0
27	0.07	0.68	0.08	120,115,140	0.0	0.0	0.0	0,0,0
28	0.05	0.12	0.05	120,115,140	0.0	0.0	0.0	0,0,0
29	0.05	0.04	0.06	120,120,140	0.0	0.0	0.0	0,0,0
30	0.06	0.04	0.07	120,120,140	0.0	0.0	0.0	0,0,0
31	0.06	0.04	0.07	120,125,140	0.0	0.0	0.0	0,0,0
32	0.06	0.04	0.07	120,125,140	0.0	0.0	0.0	0,0,0
33	0.06	0.04	0.07	115,115,140	0.0	0.0	0.0	0,0,0
34	0.16	0.27	0.18	130,130,140	0.0	0.0	0.0	0,0,0
35	0.09	0.29	0.11	120,115,140	0.0	0.0	0.0	0,0,0
36	0.06	0.14	0.06	120,115,140	0.0	0.0	0.0	0,0,0
37	0.05	0.03	0.06	120,120,140	0.0	0.0	0.0	0,0,0
38	0.05	0.04	0.06	120,120,140	0.0	0.0	0.0	0,0,0
39	0.05	0.04	0.06	120,120,140	0.0	0.0	0.0	0,0,0
40	0.05	0.04	0.06	120,120,140	0.0	0.0	0.0	0,0,0
41	0.06	0.04	0.06	130,130,140	0.0	0.0	0.0	0,0,0
42	0.07	0.08	0.09	120,115,140	0.0	0.0	0.0	0,0,0
43	0.06	0.05	0.08	120,120,140	0.0	0.0	0.0	0,0,0
44	0.05	0.04	0.06	120,120,140	0.0	0.0	0.0	0,0,0
45	0.05	0.03	0.05	120,120,140	0.0	0.0	0.0	0,0,0
46	0.04	0.03	0.05	120,120,140	0.0	0.0	0.0	0,0,0
47	0.04	0.03	0.05	120,120,140	0.0	0.0	0.0	0,0,0
48	0.04	0.03	0.05	120,120,140	0.0	0.0	0.0	0,0,0
49	0.08	0.16	0.09	130,115,140	0.0	0.0	0.0	0,0,0
50	0.13	0.39	0.15	130,115,140	0.0	0.0	0.0	0,0,0
51	0.05	0.15	0.06	130,130,140	0.0	0.0	0.0	0,0,0
52	0.04	0.02	0.04	120,120,140	0.0	0.0	0.0	0,0,0
53	0.04	0.03	0.04	120,120,140	0.0	0.0	0.0	0,0,0
54	0.04	0.03	0.05	120,120,140	0.0	0.0	0.0	0,0,0
55	0.04	0.03	0.04	120,120,140	0.0	0.0	0.0	0,0,0
56	0.04	0.03	0.04	120,120,140	0.0	0.0	0.0	0,0,0
57	0.09	0.29	0.11	130,115,140	0.0	0.0	0.0	0,0,0
58	0.10	0.08	0.13	125,125,140	0.0	0.0	0.0	0,0,0
59	0.03	0.33	0.03	120,130,140	0.0	0.0	0.0	0,0,0
60	0.03	0.08	0.04	120,130,140	0.0	0.0	0.0	0,0,0
61	0.04	0.04	0.04	120,117,140	0.0	0.0	0.0	0,0,0



Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
62	0.04	0.03	0.04	120,117,140	0.0	0.0	0.0	0,0,0
63	0.04	0.02	0.04	120,120,140	0.0	0.0	0.0	0,0,0
64	0.03	0.02	0.04	123,120,140	0.0	0.0	0.0	0,0,0
65	0.02	0.44	0.02	120,115,140	0.0	0.0	0.0	0,0,0
66	0.07	0.26	0.09	120,120,140	0.0	0.0	0.0	0,0,0
67	0.09	0.22	0.10	120,115,140	0.0	0.0	0.0	0,0,0
68	0.04	0.09	0.05	120,130,140	0.0	0.0	0.0	0,0,0
69	0.04	0.05	0.04	120,117,140	0.0	0.0	0.0	0,0,0
70	0.03	0.03	0.04	120,117,140	0.0	0.0	0.0	0,0,0
71	0.03	0.02	0.04	123,120,140	0.0	0.0	0.0	0,0,0
72	0.03	0.02	0.03	123,123,140	0.0	0.0	0.0	0,0,0
73	0.04	0.23	0.04	115,130,140	0.0	0.0	0.0	0,0,0
74	0.11	0.41	0.13	130,115,140	0.0	0.0	0.0	0,0,0
75	0.07	0.06	0.08	120,117,140	0.0	0.0	0.0	0,0,0
76	0.04	0.03	0.05	120,120,140	0.0	0.0	0.0	0,0,0
77	0.04	0.03	0.04	120,116,140	0.0	0.0	0.0	0,0,0
78	0.03	0.03	0.04	120,116,140	0.0	0.0	0.0	0,0,0
79	0.03	0.03	0.03	123,116,140	0.0	0.0	0.0	0,0,0
80	0.03	0.02	0.03	123,116,140	0.0	0.0	0.0	0,0,0
81	0.03	0.17	0.04	130,130,140	0.0	0.0	0.0	0,0,0
82	0.05	0.20	0.06	130,130,140	0.0	0.0	0.0	0,0,0
83	0.04	0.05	0.05	120,130,140	0.0	0.0	0.0	0,0,0
84	0.03	0.02	0.04	120,120,140	0.0	0.0	0.0	0,0,0
85	0.03	0.02	0.03	120,120,140	0.0	0.0	0.0	0,0,0
86	0.03	0.02	0.03	120,120,140	0.0	0.0	0.0	0,0,0
87	0.03	0.02	0.03	123,116,140	0.0	0.0	0.0	0,0,0
88	0.02	0.02	0.02	123,116,140	0.0	0.0	0.0	0,0,0
89	0.03	0.11	0.04	130,115,140	0.0	0.0	0.0	0,0,0
90	0.03	0.11	0.04	130,130,140	0.0	0.0	0.0	0,0,0
91	0.03	0.05	0.04	130,130,140	0.0	0.0	0.0	0,0,0
92	0.03	0.02	0.03	120,120,140	0.0	0.0	0.0	0,0,0
93	0.02	0.02	0.03	120,120,140	0.0	0.0	0.0	0,0,0
94	0.02	0.02	0.02	123,116,140	0.0	0.0	0.0	0,0,0
95	0.02	0.02	0.02	123,116,140	0.0	0.0	0.0	0,0,0
96	0.02	0.03	0.02	116,116,140	0.0	0.0	0.0	0,0,0
97	0.03	0.08	0.04	130,115,140	0.0	0.0	0.0	0,0,0
98	0.03	0.08	0.04	130,130,140	0.0	0.0	0.0	0,0,0
99	0.03	0.08	0.03	130,116,140	0.0	0.0	0.0	0,0,0
100	0.02	0.02	0.03	120,116,140	0.0	0.0	0.0	0,0,0
101	0.02	0.02	0.02	120,116,140	0.0	0.0	0.0	0,0,0
102	0.02	0.03	0.02	116,116,140	0.0	0.0	0.0	0,0,0
103	0.02	0.03	0.02	116,116,140	0.0	0.0	0.0	0,0,0
104	0.02	0.03	0.02	116,116,140	0.0	0.0	0.0	0,0,0
105	0.04	0.09	0.05	115,130,140	0.0	0.0	0.0	0,0,0
106	0.06	0.24	0.07	115,130,140	0.0	0.0	0.0	0,0,0
107	0.03	0.12	0.03	130,116,140	0.0	0.0	0.0	0,0,0
108	0.02	0.04	0.02	116,116,140	0.0	0.0	0.0	0,0,0
109	0.02	0.05	0.02	116,116,140	0.0	0.0	0.0	0,0,0
110	0.02	0.04	0.02	116,116,140	0.0	0.0	0.0	0,0,0
111	0.02	0.04	0.02	116,116,140	0.0	0.0	0.0	0,0,0
112	0.02	0.04	0.01	116,116,140	0.0	0.0	0.0	0,0,0
113	0.06	0.16	0.07	115,130,140	0.0	0.0	0.0	0,0,0
114	0.07	0.19	0.08	125,120,140	0.0	0.0	0.0	0,0,0
115	0.01	0.25	0.02	116,116,140	0.0	0.0	0.0	0,0,0
116	0.02	0.08	0.02	116,116,140	0.0	0.0	0.0	0,0,0
117	0.02	0.07	0.02	116,116,140	0.0	0.0	0.0	0,0,0
118	0.02	0.05	0.02	117,116,140	0.0	0.0	0.0	0,0,0
119	0.02	0.05	0.01	116,116,140	0.0	0.0	0.0	0,0,0
120	0.02	0.04	0.01	116,116,140	0.0	0.0	0.0	0,0,0
121	0.02	0.25	0.02	123,117,140	0.0	0.0	0.0	0,0,0
122	0.03	0.79	0.03	125,125,140	0.0	0.0	0.0	0,0,0
123	0.04	0.16	0.05	117,117,140	0.0	0.0	0.0	0,0,0
124	0.02	0.09	0.02	117,116,140	0.0	0.0	0.0	0,0,0
125	0.02	0.07	0.02	117,116,140	0.0	0.0	0.0	0,0,0
126	0.02	0.06	0.01	117,116,140	0.0	0.0	0.0	0,0,0
127	0.02	0.05	0.01	117,116,140	0.0	0.0	0.0	0,0,0
128	0.02	0.05	9.29e-03	117,116,140	0.0	0.0	0.0	0,0,0
129	0.02	0.14	0.03	123,116,140	0.0	0.0	0.0	0,0,0
130	0.07	0.24	0.08	117,115,140	0.0	0.0	0.0	0,0,0
131	0.04	0.09	0.05	117,117,140	0.0	0.0	0.0	0,0,0



Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
132	0.02	0.07	0.02	117,116,140	0.0	0.0	0.0	0,0,0
133	0.02	0.06	0.02	117,116,140	0.0	0.0	0.0	0,0,0
134	0.02	0.05	0.01	117,116,140	0.0	0.0	0.0	0,0,0
135	0.02	0.05	0.01	117,116,140	0.0	0.0	0.0	0,0,0
136	0.02	0.04	7.43e-03	117,116,140	0.0	0.0	0.0	0,0,0
137	0.03	0.10	0.03	123,116,140	0.0	0.0	0.0	0,0,0
138	0.03	0.13	0.04	120,116,140	0.0	0.0	0.0	0,0,0
139	0.03	0.05	0.03	117,116,140	0.0	0.0	0.0	0,0,0
140	0.02	0.03	0.02	117,116,140	0.0	0.0	0.0	0,0,0
141	0.02	0.03	0.01	117,116,140	0.0	0.0	0.0	0,0,0
142	0.02	0.04	0.01	117,116,140	0.0	0.0	0.0	0,0,0
143	0.02	0.04	8.14e-03	117,116,140	0.0	0.0	0.0	0,0,0
144	0.02	0.04	5.95e-03	117,116,140	0.0	0.0	0.0	0,0,0
145	0.04	0.12	0.05	123,117,140	0.0	0.0	0.0	0,0,0
146	0.06	0.13	0.08	123,116,140	0.0	0.0	0.0	0,0,0
147	0.03	0.07	0.03	116,116,140	0.0	0.0	0.0	0,0,0
148	0.02	0.02	0.01	117,116,140	0.0	0.0	0.0	0,0,0
149	0.02	0.02	9.99e-03	117,116,140	0.0	0.0	0.0	0,0,0
150	0.02	0.03	8.05e-03	117,116,140	0.0	0.0	0.0	0,0,0
151	0.02	0.03	7.06e-03	117,116,140	0.0	0.0	0.0	0,0,0
152	0.02	0.03	6.16e-03	117,116,140	0.0	0.0	0.0	0,0,0
153	0.04	0.25	0.05	123,130,140	0.0	0.0	0.0	0,0,0
154	7.82e-03	0.56	8.50e-03	133,120,140	0.0	0.0	0.0	0,0,0
155	0.03	0.14	0.01	117,116,140	0.0	0.0	0.0	0,0,0
156	0.02	0.05	9.13e-03	117,116,140	0.0	0.0	0.0	0,0,0
157	0.02	0.03	8.30e-03	117,116,140	0.0	0.0	0.0	0,0,0
158	0.02	0.03	7.76e-03	117,116,140	0.0	0.0	0.0	0,0,0
159	0.02	0.03	7.50e-03	117,116,140	0.0	0.0	0.0	0,0,0
160	0.02	0.03	7.35e-03	117,116,140	0.0	0.0	0.0	0,0,0
161	0.03	0.18	0.02	117,116,140	0.0	0.0	0.0	0,0,0
162	0.26	0.45	0.31	125,125,140	0.0	0.0	0.0	0,0,0
163	0.03	0.14	0.03	115,117,140	0.0	0.0	0.0	0,0,0
164	0.02	0.06	0.02	117,116,140	0.0	0.0	0.0	0,0,0
165	0.02	0.04	0.01	117,116,140	0.0	0.0	0.0	0,0,0
166	0.02	0.03	8.66e-03	117,116,140	0.0	0.0	0.0	0,0,0
167	0.02	0.03	8.25e-03	117,116,140	0.0	0.0	0.0	0,0,0
168	0.02	0.04	8.60e-03	117,117,140	0.0	0.0	0.0	0,0,0
169	0.03	0.10	0.04	115,116,140	0.0	0.0	0.0	0,0,0
170	0.05	0.10	0.06	117,116,140	0.0	0.0	0.0	0,0,0
171	0.03	0.08	0.04	117,117,140	0.0	0.0	0.0	0,0,0
172	0.02	0.05	0.02	117,117,140	0.0	0.0	0.0	0,0,0
173	0.02	0.04	0.01	117,116,140	0.0	0.0	0.0	0,0,0
174	0.02	0.03	0.01	117,116,140	0.0	0.0	0.0	0,0,0
175	0.02	0.03	0.01	117,123,140	0.0	0.0	0.0	0,0,0
176	0.02	0.05	9.63e-03	117,123,140	0.0	0.0	0.0	0,0,0
177	0.03	0.07	0.03	120,130,140	0.0	0.0	0.0	0,0,0
178	0.03	0.04	0.03	115,116,140	0.0	0.0	0.0	0,0,0
179	0.02	0.02	0.03	117,117,140	0.0	0.0	0.0	0,0,0
180	0.02	0.02	0.02	117,116,140	0.0	0.0	0.0	0,0,0
181	0.02	0.02	0.02	117,123,140	0.0	0.0	0.0	0,0,0
182	0.02	0.03	0.01	117,123,140	0.0	0.0	0.0	0,0,0
183	0.02	0.05	0.01	117,123,140	0.0	0.0	0.0	0,0,0
184	0.02	0.09	0.01	117,123,140	0.0	0.0	0.0	0,0,0
185	0.03	0.03	0.03	120,120,140	0.0	0.0	0.0	0,0,0
186	0.02	0.02	0.03	115,116,140	0.0	0.0	0.0	0,0,0
187	0.02	0.01	0.02	117,117,140	0.0	0.0	0.0	0,0,0
188	0.02	0.02	0.02	117,123,140	0.0	0.0	0.0	0,0,0
189	0.02	0.03	0.02	117,123,140	0.0	0.0	0.0	0,0,0
190	0.02	0.04	0.01	117,123,140	0.0	0.0	0.0	0,0,0
191	0.02	0.05	0.01	117,123,140	0.0	0.0	0.0	0,0,0
192	0.03	0.06	0.01	123,123,140	0.0	0.0	0.0	0,0,0
193	0.03	0.02	0.03	120,120,140	0.0	0.0	0.0	0,0,0
194	0.02	0.02	0.03	117,117,140	0.0	0.0	0.0	0,0,0
195	0.02	0.01	0.02	117,117,140	0.0	0.0	0.0	0,0,0
196	0.02	0.02	0.02	117,123,140	0.0	0.0	0.0	0,0,0
197	0.02	0.03	0.02	117,123,140	0.0	0.0	0.0	0,0,0
198	0.02	0.04	0.01	117,123,140	0.0	0.0	0.0	0,0,0
199	0.02	0.05	0.01	117,123,140	0.0	0.0	0.0	0,0,0
200	0.03	0.09	0.02	123,123,140	0.0	0.0	0.0	0,0,0
201	0.03	0.02	0.03	120,120,140	0.0	0.0	0.0	0,0,0



Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
202	0.02	0.02	0.02	117,117,140	0.0	0.0	0.0	0,0,0
203	0.02	0.01	0.02	117,117,140	0.0	0.0	0.0	0,0,0
204	0.02	0.01	0.02	117,117,140	0.0	0.0	0.0	0,0,0
205	0.02	0.02	0.02	117,123,140	0.0	0.0	0.0	0,0,0
206	0.02	0.03	0.01	117,123,140	0.0	0.0	0.0	0,0,0
207	0.02	0.05	0.01	117,123,140	0.0	0.0	0.0	0,0,0
208	0.02	0.08	0.01	123,123,140	0.0	0.0	0.0	0,0,0
209	0.03	0.02	0.03	120,120,140	0.0	0.0	0.0	0,0,0
210	0.02	0.01	0.02	117,117,140	0.0	0.0	0.0	0,0,0
211	0.02	0.02	0.02	117,117,140	0.0	0.0	0.0	0,0,0
212	0.02	0.02	0.02	117,117,140	0.0	0.0	0.0	0,0,0
213	0.02	0.02	0.01	117,117,140	0.0	0.0	0.0	0,0,0
214	0.02	0.02	0.01	117,123,140	0.0	0.0	0.0	0,0,0
215	0.02	0.03	0.02	117,123,140	0.0	0.0	0.0	0,0,0
216	0.02	0.09	0.01	123,130,140	0.0	0.0	0.0	0,0,0
217	0.11	0.78	0.13	130,120,140	0.0	0.0	0.0	0,0,0
218	0.06	0.44	0.07	120,120,140	0.0	0.0	0.0	0,0,0
219	0.13	0.77	0.15	120,120,140	0.39	0.33	0.32	120,135,140
220	0.07	0.17	0.09	120,123,140	0.0	0.0	0.0	0,0,0
221	0.08	0.12	0.09	120,123,140	0.0	0.0	0.0	0,0,0
222	0.09	0.06	0.10	120,120,140	0.0	0.0	0.0	0,0,0
223	0.09	0.07	0.11	120,120,140	0.0	0.0	0.0	0,0,0
224	0.10	0.07	0.12	123,120,140	0.0	0.0	0.0	0,0,0
225	0.05	0.78	0.06	130,120,140	0.0	0.0	0.0	0,0,0
226	0.08	0.41	0.09	120,120,140	0.0	0.0	0.0	0,0,0
227	0.02	0.49	0.03	115,125,140	0.0	0.0	0.0	0,0,0
228	0.07	0.19	0.08	120,123,140	0.0	0.0	0.0	0,0,0
229	0.07	0.08	0.08	120,123,140	0.0	0.0	0.0	0,0,0
230	0.08	0.06	0.09	120,120,140	0.0	0.0	0.0	0,0,0
231	0.09	0.07	0.11	120,120,140	0.0	0.0	0.0	0,0,0
232	0.11	0.08	0.12	120,120,140	0.0	0.0	0.0	0,0,0
233	0.03	0.77	0.03	133,120,140	0.0	0.0	0.0	0,0,0
234	0.01	0.29	0.02	120,120,140	0.0	0.0	0.0	0,0,0
235	0.04	0.35	0.05	120,115,140	0.0	0.0	0.0	0,0,0
236	0.05	0.12	0.06	130,123,140	0.0	0.0	0.0	0,0,0
237	0.06	0.04	0.07	130,130,140	0.0	0.0	0.0	0,0,0
238	0.06	0.05	0.08	130,130,140	0.0	0.0	0.0	0,0,0
239	0.07	0.05	0.08	120,120,140	0.0	0.0	0.0	0,0,0
240	0.07	0.05	0.08	120,120,140	0.0	0.0	0.0	0,0,0
241	6.03e-03	0.52	7.02e-03	122,120,140	0.0	0.0	0.0	0,0,0
242	8.25e-03	0.44	0.01	125,120,140	0.0	0.0	0.0	0,0,0
243	0.07	0.31	0.08	125,115,140	0.0	0.0	0.0	0,0,0
244	0.05	0.17	0.06	115,120,140	0.0	0.0	0.0	0,0,0
245	0.05	0.07	0.06	115,123,140	0.0	0.0	0.0	0,0,0
246	0.06	0.04	0.07	115,130,140	0.0	0.0	0.0	0,0,0
247	0.06	0.04	0.07	130,130,140	0.0	0.0	0.0	0,0,0
248	0.06	0.04	0.07	130,130,140	0.0	0.0	0.0	0,0,0
249	0.02	0.77	0.02	123,120,140	0.0	0.0	0.0	0,0,0
250	0.01	0.77	0.01	128,120,140	0.0	0.0	0.0	0,0,0
251	0.02	0.79	0.02	117,125,140	0.0	0.0	0.0	0,0,0
252	0.06	0.20	0.07	115,120,140	0.0	0.0	0.0	0,0,0
253	0.05	0.08	0.06	115,123,140	0.0	0.0	0.0	0,0,0
254	0.05	0.03	0.06	115,115,140	0.0	0.0	0.0	0,0,0
255	0.05	0.03	0.06	115,115,140	0.0	0.0	0.0	0,0,0
256	0.05	0.03	0.06	115,115,140	0.0	0.0	0.0	0,0,0
257	0.05	0.78	0.06	123,120,140	0.0	0.0	0.0	0,0,0
258	0.05	0.62	0.05	115,130,140	0.0	0.0	0.0	0,0,0
259	0.04	0.20	0.05	115,125,140	0.0	0.0	0.0	0,0,0
260	0.06	0.04	0.06	115,130,140	0.0	0.0	0.0	0,0,0
261	0.05	0.03	0.05	115,115,140	0.0	0.0	0.0	0,0,0
262	0.04	0.03	0.05	115,115,140	0.0	0.0	0.0	0,0,0
263	0.04	0.03	0.05	115,115,140	0.0	0.0	0.0	0,0,0
264	0.04	0.03	0.05	115,115,140	0.0	0.0	0.0	0,0,0
265	0.05	0.19	0.05	130,130,140	0.0	0.0	0.0	0,0,0
266	0.02	0.69	0.02	115,120,140	0.0	0.0	0.0	0,0,0
267	0.03	0.22	0.03	130,120,140	0.0	0.0	0.0	0,0,0
268	0.03	0.02	0.04	115,115,140	0.0	0.0	0.0	0,0,0
269	0.04	0.03	0.04	115,115,140	0.0	0.0	0.0	0,0,0
270	0.04	0.03	0.04	115,115,140	0.0	0.0	0.0	0,0,0
271	0.04	0.03	0.04	115,115,140	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
272	0.04	0.03	0.04	115,115,140	0.0	0.0	0.0	0,0,0
273	0.05	0.23	0.06	115,130,140	0.0	0.0	0.0	0,0,0
274	0.01	0.75	0.01	133,120,140	0.0	0.0	0.0	0,0,0
275	0.02	0.25	0.02	130,130,140	0.0	0.0	0.0	0,0,0
276	0.03	0.08	0.04	123,130,140	0.0	0.0	0.0	0,0,0
277	0.03	0.04	0.04	123,130,140	0.0	0.0	0.0	0,0,0
278	0.03	0.02	0.04	123,123,140	0.0	0.0	0.0	0,0,0
279	0.03	0.02	0.04	123,123,140	0.0	0.0	0.0	0,0,0
280	0.03	0.02	0.03	123,123,140	0.0	0.0	0.0	0,0,0
281	0.04	0.15	0.05	115,115,140	0.0	0.0	0.0	0,0,0
282	7.58e-03	0.75	8.51e-03	120,120,140	0.0	0.0	0.0	0,0,0
283	0.01	0.26	0.02	120,130,140	0.0	0.0	0.0	0,0,0
284	0.04	0.10	0.05	123,130,140	0.0	0.0	0.0	0,0,0
285	0.04	0.05	0.04	123,130,140	0.0	0.0	0.0	0,0,0
286	0.03	0.02	0.04	123,123,140	0.0	0.0	0.0	0,0,0
287	0.03	0.02	0.03	123,123,140	0.0	0.0	0.0	0,0,0
288	0.03	0.02	0.03	123,123,140	0.0	0.0	0.0	0,0,0
289	0.05	0.09	0.06	120,115,140	0.0	0.0	0.0	0,0,0
290	0.01	0.74	0.01	120,125,140	0.0	0.0	0.0	0,0,0
291	0.02	0.25	0.02	120,130,140	0.0	0.0	0.0	0,0,0
292	0.04	0.03	0.05	123,115,140	0.0	0.0	0.0	0,0,0
293	0.04	0.03	0.04	123,115,140	0.0	0.0	0.0	0,0,0
294	0.03	0.02	0.03	123,123,140	0.0	0.0	0.0	0,0,0
295	0.03	0.02	0.03	123,123,140	0.0	0.0	0.0	0,0,0
296	0.03	0.02	0.02	123,123,140	0.0	0.0	0.0	0,0,0
297	0.05	0.16	0.06	120,130,140	0.0	0.0	0.0	0,0,0
298	0.02	0.65	0.03	120,115,140	0.0	0.0	0.0	0,0,0
...								
1649	0.05	0.07	0.06	130,115,140	0.0	0.0	0.0	0,0,0
Setto	rRfck	rRfyk	rPfck		wR	wF	wP	
	0.40	0.80	0.48		0.42	0.40	0.39	

VERIFICHE S.L. ELEMENTI IN LEGNO

Il programma consente la verifica dei seguenti tipi di elementi:

1. Aste
2. Travi
3. Pilastri

L'esito delle verifiche è espresso con un codice come di seguito indicato:

ok: verifica con esito positivo

NV: verifica con esito negativo

Le verifiche sono condotte in ottemperanza alle NTC 17 Gennaio 2018, oppure seguendo le indicazioni analitiche riportate nella norma tecnica UNI EN 1995-1-1:2005 "Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici"; in particolare le verifiche effettuate sono riconducibili ai punti:

NTC 2018

- 4.4.8 Stati limite ultimi
- 4.4.8.1.7 Tensoflessione
- 4.4.8.1.8 Pressoflessione
- 4.4.8.1.11 Taglio e torsione
- 4.4.8.2.1 Elementi inflessi
- 4.4.8.2.2 Elementi compressi

EC5

- 2.2.2 Ultimate limit states
- 2.2.3 Serviceability limit states
- 2.4.1 Design value of material property

- 2.4.3 Design resistances
- 3.1.3 Strength modification (k_{mod})
- 3.1.4 Deformation modification (k_{def})
- 6. Ultimate limit states
- 6.2 Design of cross-sections subjected to combined stresses
- 6.3 Stability of members

Simbologia adottata nelle tabelle di verifica

Le verifiche effettuate ai sensi delle NTC 2018 sono dettagliatamente riportate come da tabella seguente:

Elem.	Numero dell'elemento
Tipo	Codice di individuazione del tipo di elemento: Trave (T), Pilastro (P), Asta (A)
Stato	Codice della verifica: ok verificato, NV non verificato
Note	Numero della sezione (s) e del materiale (m) dell'archivio
Ver N+/M	Verifica come da formule 4.4.6a e 4.4.6b per tensoflessione, con i valori di k_m definiti nel par. 4.4.8.1.6
Ver N-/M	Verifica come da formule 4.4.7a e 4.4.7b per pressoflessione, con i valori di k_m definiti nel par. 4.4.8.1.6
Ver V/T	Verifica come da formula 4.4.10 (taglio torsione) con interazione ottenuta per quadratura del termine di taglio
Ver N(s)	Verifica instabilità a compressione come da par. 4.4.8.2.2
Kcy(z)	Fattore di instabilità $K_{crit,c}$ utilizzato nella formula 4.4.13, in funzione della snellezza relativa
Ver M(s)	Verifica instabilità laterale come da par. 4.4.8.2.1, effettuata in entrambi i piani principali y e z
Kcrit (y)/(z)	Fattore di instabilità laterale utilizzato nella formula 4.4.11 rispettivamente per la flessione y e z
w _{net R}	Massima deformazione in combinazione rara (F frequente, P quasi permanente)
w _{net Ri}	Massima deformazione in combinazione rara (F frequente, P quasi permanente) valutata a tempo infinito
kdef	Fattore di deformazione dell' elemento
Rif. cmb	Numero della combinazione in cui si è attinto il valore riportato per le verifiche

Le verifiche effettuate ai sensi dell'EC5 sono dettagliatamente riportate come da tabella seguente:

Elem.	Numero dell'elemento
Tipo	Codice di individuazione del tipo di elemento: Trave (T), Pilastro (P), Asta (A)
Stato	Codice della verifica ok verificato, NV non verificato
Note	Numero della sezione (s) e del materiale (m) dell'archivio
Ver N+/M	Verifica come da formula 6.17 e 6.18 per tensoflessione
Ver N-/M	Verifica come da formula 6.19 e 6.20 per pressoflessione
Ver V/T	Verifica come da formula 6.13 e 6.14 (taglio torsione) con interazione ottenuta per quadratura del termine di taglio
Ver N(s)	Verifica come da formula 6.23 e 6.24 per pressoflessione di elementi con snellezza relativa in un piano maggiore di 0.3
Kcy (z)	Fattore di instabilità utilizzato nella formula 6.23 (6.24)
Ver M(s)	Verifica come da formula 6.35 (effettuata in entrambi i piani principali) per instabilità laterale
Kcrit (y) (z)	Fattore di instabilità laterale utilizzato nella formula 6.35 rispettivamente per la flessione y e z
w _{net R}	Massima deformazione in combinazione rara (F frequente, P quasi permanente)
w _{net Ri}	Massima deformazione in combinazione rara (F frequente, P quasi permanente) valutata a tempo infinito
kdef	Fattore di deformazione dell' elemento
Rif. cmb	Numero della combinazione in cui si è attinto il valore riportato per le verifiche

Si sottolinea che le cinque verifiche sono espresse dal rapporto tra domanda e capacità, affinché la verifica sia positiva il rapporto deve essere inferiore o uguale a 1. La capacità è affetta dal termine **kmod**, espressione della classe di servizio e della durata dei carichi (si considera a livello di combinazione il caso di carico di minor durata).

Le deformazioni dell' elemento espresse in rapporto ad un millesimo di lunghezza sono rappresentate dal valore istantaneo e dal valore a tempo infinito. Il valore della deformazione a tempo infinito per una combinazione di carichi è ottenuta sommando per ogni caso di carico sia il valore istantaneo che il valore ottenuto dall' aliquota quasi-permanente amplificata del fattore kdef (formula 2.2 e 2.3).

In termini analitici il contributo del caso di carico con coefficiente di combinazione **Psi** (diverso da 0) è:

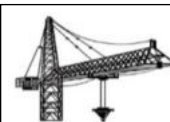
$Psi + kdef \times Psi2$

Elem.	Note	Pos. cm	Ver N+/M	Ver N-/M	Ver V/T	Rif. cmb	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)	Rif. cmb
45 ok	T,s=4,m=129	0.0	2.12e-04	7.98e-05	0.1	65,64,38	1.33e-02	0.7	1.0	1.33e-02	1.0	1.0	64,64
		168.7	0.3	0.4	6.39e-02	65,18,38	0.4	0.7	1.0	0.2	1.0	1.0	18,28
		337.3	0.5	0.7	1.65e-02	65,18,38	0.7	0.7	1.0	0.4	1.0	1.0	18,28
46 ok	T,s=4,m=129	0.0	0.0	6.71e-05	0.1	0,28,28	1.22e-02	0.7	1.0	1.22e-02	1.0	1.0	28,28
		168.7	0.3	0.4	6.39e-02	65,18,28	0.4	0.7	1.0	0.2	1.0	1.0	18,28
		337.3	0.4	0.7	1.65e-02	65,18,28	0.7	0.7	1.0	0.4	1.0	1.0	18,28
47 ok	T,s=4,m=129	0.0	0.0	7.32e-05	0.2	0,18,18	1.28e-02	0.7	1.0	1.28e-02	1.0	1.0	18,18
		168.7	0.3	0.4	6.98e-02	63,18,18	0.4	0.7	1.0	0.2	1.0	1.0	18,18
		337.3	0.4	0.7	1.80e-02	63,18,18	0.7	0.7	1.0	0.5	1.0	1.0	18,18
48 ok	T,s=4,m=129	0.0	0.0	6.82e-05	0.1	0,74,38	1.23e-02	0.7	1.0	1.23e-02	1.0	1.0	74,74
		168.7	0.3	0.4	6.39e-02	71,18,8	0.4	0.7	1.0	0.2	1.0	1.0	18,28
		337.3	0.4	0.7	1.65e-02	71,18,38	0.7	0.7	1.0	0.4	1.0	1.0	18,28
49 ok	T,s=4,m=129	0.0	0.0	7.32e-05	0.2	0,8,8	1.28e-02	0.7	1.0	1.28e-02	1.0	1.0	8,8
		168.7	0.3	0.4	6.98e-02	73,18,8	0.4	0.7	1.0	0.2	1.0	1.0	18,8
		337.3	0.4	0.7	1.80e-02	73,18,8	0.7	0.7	1.0	0.5	1.0	1.0	18,8
100 ok	T,s=6,m=129	0.0	1.50e-02	2.44e-03	3.60e-05	65,51,11	0.6	7.97e-02	1.0	0.6	1.0	1.0	51,51
		68.8	1.70e-02	4.51e-03	0.0	65,51,11	0.6	7.97e-02	1.0	0.6	1.0	1.0	51,51
		137.5	1.50e-02	2.44e-03	3.60e-05	65,51,38	0.6	7.97e-02	1.0	0.6	1.0	1.0	51,51
101 ok	T,s=4,m=129	0.0	0.3	0.7	1.54e-02	64,18,18	0.7	0.7	1.0	0.5	1.0	1.0	18,28
		168.7	0.8	0.8	9.19e-04	18,28,49	0.8	0.7	1.0	0.6	1.0	1.0	28,28
		337.3	0.7	0.5	1.55e-02	8,53,18	0.5	0.7	1.0	0.5	1.0	1.0	53,38
102 ok	T,s=4,m=129	0.0	0.5	0.7	1.53e-02	71,18,18	0.7	0.7	1.0	0.5	1.0	1.0	18,28
		168.7	0.8	0.4	9.81e-04	18,56,49	0.4	0.7	1.0	0.6	1.0	1.0	56,28
		337.3	0.7	0.3	1.56e-02	18,68,18	0.3	0.7	1.0	0.4	1.0	1.0	68,28
103 ok	T,s=4,m=129	0.0	0.5	0.7	1.55e-02	73,18,18	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.5	0.7	9.94e-04	77,18,57	0.7	0.7	1.0	0.6	1.0	1.0	18,28
		337.3	0.7	0.3	1.55e-02	8,64,18	0.3	0.7	1.0	0.4	1.0	1.0	64,2
104 ok	T,s=4,m=129	0.0	0.4	0.7	1.55e-02	73,18,18	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.5	0.7	9.98e-04	73,18,57	0.7	0.7	1.0	0.6	1.0	1.0	18,28
		337.3	0.7	0.3	1.55e-02	18,66,18	0.3	0.7	1.0	0.4	1.0	1.0	66,38
105 ok	T,s=4,m=129	0.0	0.4	0.7	1.53e-02	65,18,18	0.7	0.7	1.0	0.5	1.0	1.0	18,28
		168.7	0.8	0.5	9.90e-04	18,50,49	0.5	0.7	1.0	0.6	1.0	1.0	50,28
		337.3	0.7	0.3	1.56e-02	8,66,18	0.3	0.7	1.0	0.4	1.0	1.0	66,28
106 ok	T,s=4,m=129	0.0	0.4	0.7	1.54e-02	63,18,18	0.7	0.7	1.0	0.5	1.0	1.0	18,8
		168.7	0.8	0.5	9.31e-04	18,47,49	0.5	0.7	1.0	0.6	1.0	1.0	47,8
		337.3	0.7	0.5	1.55e-02	18,69,18	0.5	0.7	1.0	0.5	1.0	1.0	69,8
107 ok	T,s=4,m=129	0.0	0.4	0.7	1.55e-02	71,18,18	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.5	0.7	9.33e-04	77,18,49	0.7	0.7	1.0	0.6	1.0	1.0	18,28
		337.3	0.7	0.4	1.55e-02	18,66,18	0.4	0.7	1.0	0.4	1.0	1.0	66,28
108 ok	T,s=4,m=129	0.0	0.5	0.7	1.55e-02	71,18,18	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.5	0.7	9.57e-04	77,18,49	0.7	0.7	1.0	0.6	1.0	1.0	18,28
		337.3	0.7	0.4	1.55e-02	18,66,18	0.4	0.7	1.0	0.4	1.0	1.0	66,2
109 ok	T,s=4,m=129	0.0	0.5	0.7	1.55e-02	65,18,18	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.5	0.7	9.67e-04	67,18,49	0.7	0.7	1.0	0.6	1.0	1.0	18,28
		337.3	0.7	0.5	1.55e-02	18,48,18	0.5	0.7	1.0	0.4	1.0	1.0	48,28
110 ok	T,s=4,m=129	0.0	0.4	0.7	1.55e-02	65,18,18	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.5	0.7	9.43e-04	67,18,49	0.7	0.7	1.0	0.6	1.0	1.0	18,28
		337.3	0.7	0.3	1.55e-02	18,72,18	0.3	0.7	1.0	0.4	1.0	1.0	72,28
111 ok	T,s=4,m=129	0.0	0.4	0.7	1.55e-02	65,18,18	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.5	0.7	9.34e-04	67,18,49	0.7	0.7	1.0	0.6	1.0	1.0	18,28
		337.3	0.7	0.4	1.55e-02	18,72,18	0.4	0.7	1.0	0.4	1.0	1.0	72,28

Elem.	Note	Pos.	Ver N+/M	Ver N-/M	Ver V/T	Rif. cmb	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)	Rif. cmb
112 ok	T,s=4,m=129	0.0	0.4	0.7	1.69e-02	63,18,18	0.7	0.7	1.0	0.5	1.0	1.0	18,18
		168.7	0.5	0.8	1.07e-03	47,18,49	0.8	0.7	1.0	0.6	1.0	1.0	18,18
		337.3	0.7	0.4	1.69e-02	8,70,18	0.4	0.7	1.0	0.5	1.0	1.0	70,18
113 ok	T,s=4,m=129	0.0	0.4	0.7	1.55e-02	71,18,18	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.5	0.7	9.24e-04	77,18,48	0.7	0.7	1.0	0.6	1.0	1.0	18,28
		337.3	0.7	0.3	1.55e-02	18,76,18	0.3	0.7	1.0	0.4	1.0	1.0	76,18
114 ok	T,s=4,m=129	0.0	0.4	0.7	1.69e-02	73,18,18	0.7	0.7	1.0	0.5	1.0	1.0	18,8
		168.7	0.5	0.8	1.06e-03	53,18,48	0.8	0.7	1.0	0.6	1.0	1.0	18,8
		337.3	0.7	0.4	1.69e-02	18,76,18	0.4	0.7	1.0	0.5	1.0	1.0	76,8
115 ok	T,s=6,m=129	0.0	1.22e-02	2.25e-03	3.60e-05	63,53,2	0.6	7.97e-02	1.0	0.6	1.0	1.0	53,53
		68.8	1.43e-02	4.32e-03	0.0	63,53,2	0.6	7.97e-02	1.0	0.6	1.0	1.0	53,53
		137.5	1.22e-02	2.25e-03	3.60e-05	63,53,1	0.6	7.97e-02	1.0	0.6	1.0	1.0	53,53
116 ok	T,s=6,m=129	0.0	1.02e-02	1.87e-03	2.98e-05	71,53,2	0.5	7.97e-02	1.0	0.5	1.0	1.0	53,53
		62.5	1.19e-02	3.58e-03	0.0	71,53,55	0.5	7.97e-02	1.0	0.5	1.0	1.0	53,53
		125.0	1.02e-02	1.87e-03	2.98e-05	71,53,1	0.5	7.97e-02	1.0	0.5	1.0	1.0	53,53
117 ok	T,s=6,m=129	0.0	9.78e-03	1.60e-03	2.98e-05	71,49,23	0.5	7.97e-02	1.0	0.5	1.0	1.0	49,49
		62.5	1.15e-02	3.31e-03	0.0	71,49,58	0.5	7.97e-02	1.0	0.5	1.0	1.0	49,49
		125.0	9.78e-03	1.60e-03	2.98e-05	71,49,2	0.5	7.97e-02	1.0	0.5	1.0	1.0	49,49
118 ok	T,s=6,m=129	0.0	2.53e-02	8.20e-04	2.98e-05	59,54,11	0.4	7.97e-02	1.0	0.4	1.0	1.0	54,54
		62.5	2.70e-02	2.53e-03	0.0	59,54,48	0.4	7.97e-02	1.0	0.4	1.0	1.0	54,54
		125.0	2.53e-02	8.20e-04	2.98e-05	59,54,2	0.4	7.97e-02	1.0	0.4	1.0	1.0	54,54
119 ok	T,s=6,m=129	0.0	2.14e-02	6.37e-04	2.98e-05	59,54,2	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
		62.5	2.31e-02	2.35e-03	0.0	59,54,49	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
		125.0	2.14e-02	6.37e-04	2.98e-05	59,54,23	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
120 ok	T,s=6,m=129	0.0	1.85e-02	5.10e-04	2.98e-05	51,54,28	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
		62.5	2.02e-02	2.28e-03	0.0	51,23,54	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
		125.0	1.85e-02	5.10e-04	2.98e-05	51,54,11	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
121 ok	T,s=6,m=129	0.0	1.38e-02	2.64e-04	2.98e-05	77,52,18	0.2	7.97e-02	1.0	0.2	1.0	1.0	52,52
		62.5	1.55e-02	2.27e-03	0.0	77,11,66	0.2	7.97e-02	1.0	0.2	1.0	1.0	52,52
		125.0	1.38e-02	2.64e-04	2.98e-05	77,52,33	0.2	7.97e-02	1.0	0.2	1.0	1.0	52,52
122 ok	T,s=6,m=129	0.0	1.25e-02	1.82e-04	2.98e-05	77,72,33	0.2	7.97e-02	1.0	0.2	1.0	1.0	72,72
		62.5	1.42e-02	2.27e-03	0.0	77,11,67	0.2	7.97e-02	1.0	0.2	1.0	1.0	72,72
		125.0	1.25e-02	1.82e-04	2.98e-05	77,72,8	0.2	7.97e-02	1.0	0.2	1.0	1.0	72,72
123 ok	T,s=6,m=129	0.0	1.37e-02	2.34e-04	2.98e-05	75,54,18	0.2	7.97e-02	1.0	0.2	1.0	1.0	54,54
		62.5	1.54e-02	2.27e-03	0.0	75,11,73	0.2	7.97e-02	1.0	0.2	1.0	1.0	54,54
		125.0	1.37e-02	2.34e-04	2.98e-05	75,54,11	0.2	7.97e-02	1.0	0.2	1.0	1.0	54,54
124 ok	T,s=6,m=129	0.0	1.72e-02	5.74e-04	2.98e-05	53,48,23	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48
		62.5	1.89e-02	2.33e-03	0.0	53,11,50	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48
		125.0	1.72e-02	5.74e-04	2.98e-05	53,48,2	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48
125 ok	T,s=6,m=129	0.0	2.03e-02	6.92e-04	2.98e-05	61,48,8	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48
		62.5	2.20e-02	2.40e-03	0.0	61,48,54	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48
		125.0	2.03e-02	6.92e-04	2.98e-05	61,48,33	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48
126 ok	T,s=6,m=129	0.0	2.43e-02	8.72e-04	2.98e-05	61,48,11	0.4	7.97e-02	1.0	0.4	1.0	1.0	48,48
		62.5	2.60e-02	2.58e-03	0.0	61,48,53	0.4	7.97e-02	1.0	0.4	1.0	1.0	48,48
		125.0	2.43e-02	8.72e-04	2.98e-05	61,48,2	0.4	7.97e-02	1.0	0.4	1.0	1.0	48,48
127 ok	T,s=6,m=129	0.0	1.08e-02	1.80e-03	2.98e-05	65,51,2	0.5	7.97e-02	1.0	0.5	1.0	1.0	51,51
		62.5	1.25e-02	3.51e-03	0.0	65,51,49	0.5	7.97e-02	1.0	0.5	1.0	1.0	51,51
		125.0	1.08e-02	1.80e-03	2.98e-05	65,51,1	0.5	7.97e-02	1.0	0.5	1.0	1.0	51,51
128 ok	T,s=6,m=129	0.0	1.23e-02	2.06e-03	2.98e-05	65,51,2	0.6	7.97e-02	1.0	0.6	1.0	1.0	51,51
		62.5	1.40e-02	3.77e-03	0.0	65,51,51	0.6	7.97e-02	1.0	0.6	1.0	1.0	51,51
		125.0	1.23e-02	2.06e-03	2.98e-05	65,51,33	0.6	7.97e-02	1.0	0.6	1.0	1.0	51,51
129 ok	T,s=6,m=129	0.0	4.26e-02	5.29e-03	3.60e-05	48,54,18	0.9	7.97e-02	1.0	0.9	1.0	1.0	54,54
		68.8	4.47e-02	7.36e-03	0.0	48,54,59	0.9	7.97e-02	1.0	0.9	1.0	1.0	54,54
		137.5	4.26e-02	5.29e-03	3.60e-05	48,54,11	0.9	7.97e-02	1.0	0.9	1.0	1.0	54,54
130 ok	T,s=6,m=129	0.0	4.51e-02	5.61e-03	3.60e-05	49,48,2	0.9	7.97e-02	1.0	0.9	1.0	1.0	48,48
		68.8	4.72e-02	7.67e-03	0.0	49,48,49	0.9	7.97e-02	1.0	0.9	1.0	1.0	48,48
		137.5	4.51e-02	5.61e-03	3.60e-05	49,48,7	0.9	7.97e-02	1.0	0.9	1.0	1.0	48,48
131 ok	T,s=6,m=129	0.0	3.01e-02	3.98e-03	2.98e-05	49,48,18	0.8	7.97e-02	1.0	0.8	1.0	1.0	48,48
		62.5	3.18e-02	5.69e-03	0.0	49,48,47	0.8	7.97e-02	1.0	0.8	1.0	1.0	48,48
		125.0	3.01e-02	3.98e-03	2.98e-05	49,48,1	0.8	7.97e-02	1.0	0.8	1.0	1.0	48,48
132 ok	T,s=6,m=129	0.0	1.60e-02	2.71e-03	2.98e-05	54,48,2	0.7	7.97e-02	1.0	0.7	1.0	1.0	48,48
		62.5	1.78e-02	4.42e-03	0.0	54,48,54	0.7	7.97e-02	1.0	0.7	1.0	1.0	48,48
		125.0	1.60e-02	2.71e-03	2.98e-05	54,48,17	0.7	7.97e-02	1.0	0.7	1.0	1.0	48,48
133 ok	T,s=6,m=129	0.0	6.52e-02	2.22e-03	2.98e-05	57,48,11	0.6	7.97e-02	1.0	0.6	1.0	1.0	48,48
		62.5	6.69e-02	3.92e-03	0.0	57,48,65	0.6	7.97e-02	1.0	0.6	1.0	1.0	48,48
		125.0	6.52e-02	2.22e-03	2.98e-05	57,48,2	0.6	7.97e-02	1.0	0.6	1.0	1.0	48,48
134 ok	T,s=6,m=129	0.0	5.06e-02	1.26e-03	2.98e-05	57,48,1	0.4	7.97e-02	1.0	0.4	1.0	1.0	48,48
		62.5	5.23e-02	2.97e-03	0.0	57,48,48	0.4	7.97e-02	1.0	0.4	1.0	1.0	48,48
		125.0	5.06e-02	1.26e-03	2.98e-05	57,48,18	0.4	7.97e-02	1.0	0.4	1.0	1.0	48,48
135 ok	T,s=6,m=129	0.0	3.56e-02	5.68e-04	2.98e-05	57,48,8	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48



Elem.	Note	Pos.	Ver N+/M	Ver N-/M	Ver V/T	Rif. cmb	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)	Rif. cmb
		62.5	3.73e-02	2.28e-03	0.0	57,48,50	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48
		125.0	3.56e-02	5.68e-04	2.98e-05	57,48,43	0.3	7.97e-02	1.0	0.3	1.0	1.0	48,48
136 ok	T,s=6,m=129	0.0	2.07e-02	1.44e-04	2.98e-05	61,48,27	0.2	7.97e-02	1.0	0.2	1.0	1.0	48,48
		62.5	2.24e-02	2.24e-03	0.0	61,12,47	0.2	7.97e-02	1.0	0.2	1.0	1.0	48,48
		125.0	2.07e-02	1.44e-04	2.98e-05	61,48,8	0.2	7.97e-02	1.0	0.2	1.0	1.0	48,48
137 ok	T,s=6,m=129	0.0	1.02e-02	5.45e-05	2.98e-05	73,72,2	9.26e-02	7.97e-02	1.0	9.26e-02	1.0	1.0	72,72
		62.5	1.19e-02	2.24e-03	0.0	73,12,4	9.43e-02	7.97e-02	1.0	9.26e-02	1.0	1.0	72,72
		125.0	1.02e-02	5.45e-05	2.98e-05	73,72,11	9.26e-02	7.97e-02	1.0	9.26e-02	1.0	1.0	72,72
138 ok	T,s=6,m=129	0.0	2.19e-02	1.64e-04	2.98e-05	59,54,23	0.2	7.97e-02	1.0	0.2	1.0	1.0	54,54
		62.5	2.36e-02	2.24e-03	0.0	59,12,48	0.2	7.97e-02	1.0	0.2	1.0	1.0	54,54
		125.0	2.19e-02	1.64e-04	2.98e-05	59,54,2	0.2	7.97e-02	1.0	0.2	1.0	1.0	54,54
139 ok	T,s=6,m=129	0.0	3.65e-02	5.96e-04	2.98e-05	59,54,1	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
		62.5	3.82e-02	2.31e-03	0.0	59,54,51	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
		125.0	3.65e-02	5.96e-04	2.98e-05	59,54,2	0.3	7.97e-02	1.0	0.3	1.0	1.0	54,54
140 ok	T,s=6,m=129	0.0	5.09e-02	1.29e-03	2.98e-05	59,54,2	0.5	7.97e-02	1.0	0.5	1.0	1.0	54,54
		62.5	5.26e-02	3.00e-03	0.0	59,54,61	0.5	7.97e-02	1.0	0.5	1.0	1.0	54,54
		125.0	5.09e-02	1.29e-03	2.98e-05	59,54,1	0.5	7.97e-02	1.0	0.5	1.0	1.0	54,54
141 ok	T,s=6,m=129	0.0	6.51e-02	2.23e-03	2.98e-05	59,54,1	0.6	7.97e-02	1.0	0.6	1.0	1.0	54,54
		62.5	6.68e-02	3.94e-03	0.0	59,54,52	0.6	7.97e-02	1.0	0.6	1.0	1.0	54,54
		125.0	6.51e-02	2.23e-03	2.98e-05	59,54,8	0.6	7.97e-02	1.0	0.6	1.0	1.0	54,54
142 ok	T,s=6,m=129	0.0	1.45e-02	2.53e-03	2.98e-05	48,54,18	0.6	7.97e-02	1.0	0.6	1.0	1.0	54,54
		62.5	1.62e-02	4.24e-03	0.0	48,54,52	0.6	7.97e-02	1.0	0.6	1.0	1.0	54,54
		125.0	1.45e-02	2.53e-03	2.98e-05	48,54,7	0.6	7.97e-02	1.0	0.6	1.0	1.0	54,54
143 ok	T,s=6,m=129	0.0	2.82e-02	3.74e-03	2.98e-05	48,54,7	0.8	7.97e-02	1.0	0.8	1.0	1.0	54,54
		62.5	2.99e-02	5.45e-03	0.0	48,54,52	0.8	7.97e-02	1.0	0.8	1.0	1.0	54,54
		125.0	2.82e-02	3.74e-03	2.98e-05	48,54,2	0.8	7.97e-02	1.0	0.8	1.0	1.0	54,54
144 ok	T,s=4,m=129	0.0	0.7		1.70e-02	38,0,18				0.5	1.0	1.0	0,38
		168.7	0.4		6.49e-02	38,0,18				0.2	1.0	1.0	0,38
		337.3	1.03e-02		0.1	2,0,18				0.0	1.0	1.0	0,47
145 ok	T,s=4,m=129	0.0	0.7		1.67e-02	18,0,18				0.4	1.0	1.0	0,28
		168.7	0.4		6.42e-02	18,0,18				0.2	1.0	1.0	0,28
		337.3	1.03e-02		0.1	28,0,18				0.0	1.0	1.0	0,57
146 ok	T,s=4,m=129	0.0	0.7		1.65e-02	8,0,18				0.4	1.0	1.0	0,2
		168.7	0.4		6.39e-02	8,0,18				0.2	1.0	1.0	0,28
		337.3	1.02e-02		0.1	18,0,18				0.0	1.0	1.0	0,50
147 ok	T,s=4,m=129	0.0	0.7		1.65e-02	18,0,18				0.4	1.0	1.0	0,2
		168.7	0.4		6.39e-02	18,0,18				0.2	1.0	1.0	0,38
		337.3	1.02e-02		0.1	8,0,18				0.0	1.0	1.0	0,58
148 ok	T,s=4,m=129	0.0	0.7		1.67e-02	8,0,18				0.4	1.0	1.0	0,28
		168.7	0.4		6.42e-02	8,0,18				0.2	1.0	1.0	0,28
		337.3	1.03e-02		0.1	28,0,18				0.0	1.0	1.0	0,55
149 ok	T,s=4,m=129	0.0	0.7		1.70e-02	8,0,18				0.5	1.0	1.0	0,8
		168.7	0.4		6.49e-02	8,0,18				0.2	1.0	1.0	0,8
		337.3	1.03e-02		0.1	8,0,28				0.0	1.0	1.0	0,57
150 ok	T,s=4,m=129	0.0	0.7		1.65e-02	18,0,18				0.4	1.0	1.0	0,28
		168.7	0.4		6.39e-02	18,0,18				0.2	1.0	1.0	0,2
		337.3	1.02e-02		0.1	8,0,18				0.0	1.0	1.0	0,47
151 ok	T,s=4,m=129	0.0	0.7		1.65e-02	18,0,18				0.4	1.0	1.0	0,2
		168.7	0.4		6.39e-02	18,0,18				0.2	1.0	1.0	0,2
		337.3	1.02e-02		0.1	8,0,18				0.0	1.0	1.0	0,56
152 ok	T,s=4,m=129	0.0	0.7		1.65e-02	18,0,18				0.4	1.0	1.0	0,28
		168.7	0.4		6.39e-02	18,0,18				0.2	1.0	1.0	0,8
		337.3	1.02e-02		0.1	18,0,18				0.0	1.0	1.0	0,57
153 ok	T,s=4,m=129	0.0	0.7		1.65e-02	18,0,18				0.4	1.0	1.0	0,28
		168.7	0.4		6.39e-02	18,0,18				0.2	1.0	1.0	0,28
		337.3	1.02e-02		0.1	38,0,18				0.0	1.0	1.0	0,52
154 ok	T,s=4,m=129	0.0	0.7		1.65e-02	18,0,18				0.4	1.0	1.0	0,8
		168.7	0.4		6.39e-02	18,0,18				0.2	1.0	1.0	0,2
		337.3	1.02e-02		0.1	18,0,18				0.0	1.0	1.0	0,47
155 ok	T,s=4,m=129	0.0	0.7		1.80e-02	8,0,18				0.5	1.0	1.0	0,18
		168.7	0.4		6.98e-02	8,0,18				0.2	1.0	1.0	0,18
		337.3	1.07e-02		0.2	18,0,18				0.0	1.0	1.0	0,60
156 ok	T,s=4,m=129	0.0	0.7		1.65e-02	18,0,18				0.4	1.0	1.0	0,18
		168.7	0.4		6.39e-02	18,0,18				0.2	1.0	1.0	0,18
		337.3	1.02e-02		0.1	8,0,18				0.0	1.0	1.0	0,56
157 ok	T,s=4,m=129	0.0	0.7		1.80e-02	18,0,18				0.5	1.0	1.0	0,8
		168.7	0.4		6.98e-02	18,0,18				0.2	1.0	1.0	0,8
		337.3	1.07e-02		0.2	8,0,18				0.0	1.0	1.0	0,48
161 ok	T,s=4,m=129	0.0	0.0	2.36e-04	0.1	0,47,38	2.29e-02	0.7	1.0	2.29e-02	1.0	1.0	47,47
		168.7	0.2	0.4	6.51e-02	61,18,38	0.4	0.7	1.0	0.2	1.0	1.0	18,28



Elem.	Note	Pos.	Ver N+/M	Ver N-/M	Ver V/T	Rif. cmb	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)	Rif. cmb
162 ok	T,s=4,m=129	337.3	0.4	0.7	1.71e-02	53,18,38	0.7	0.7	1.0	0.5	1.0	1.0	18,28
		168.7	0.0	1.22e-04	0.1	0,54,28	1.65e-02	0.7	1.0	1.65e-02	1.0	1.0	54,54
		168.7	0.0	0.4	6.45e-02	0,18,28	0.4	0.7	1.0	0.2	1.0	1.0	18,8
163 ok	T,s=4,m=129	337.3	0.4	0.7	1.68e-02	77,18,28	0.7	0.7	1.0	0.5	1.0	1.0	18,8
		168.7	0.3	0.4	6.39e-02	73,18,38	0.4	0.7	1.0	0.2	1.0	1.0	18,28
		337.3	0.5	0.7	1.65e-02	73,18,38	0.7	0.7	1.0	0.4	1.0	1.0	18,28
164 ok	T,s=4,m=129	337.3	0.4	0.7	1.65e-02	73,18,38	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.3	0.4	6.39e-02	73,18,38	0.4	0.7	1.0	0.2	1.0	1.0	18,28
		337.3	0.4	0.7	1.65e-02	73,18,38	0.7	0.7	1.0	0.4	1.0	1.0	18,28
165 ok	T,s=4,m=129	337.3	0.4	0.7	1.68e-02	0,18,28	0.7	0.7	1.0	0.5	1.0	1.0	8,8
		168.7	0.3	0.4	6.39e-02	0,18,28	0.4	0.7	1.0	0.2	1.0	1.0	8,8
		337.3	0.5	0.7	1.65e-02	0,18,28	0.7	0.7	1.0	0.4	1.0	1.0	8,8
166 ok	T,s=4,m=129	337.3	0.4	0.7	1.68e-02	55,53,38	2.08e-02	0.7	1.0	2.08e-02	1.0	1.0	53,53
		168.7	0.3	0.4	6.51e-02	47,18,38	0.4	0.7	1.0	0.2	1.0	1.0	28,8
		337.3	0.6	0.7	1.71e-02	21,18,38	0.7	0.7	1.0	0.5	1.0	1.0	28,8
171 ok	T,s=4,m=129	337.3	0.4	0.7	1.65e-02	71,18,8	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.3	0.4	6.39e-02	71,18,8	0.4	0.7	1.0	0.2	1.0	1.0	18,28
		337.3	0.5	0.7	1.65e-02	71,18,8	0.7	0.7	1.0	0.4	1.0	1.0	18,28
172 ok	T,s=4,m=129	337.3	0.4	0.7	1.65e-02	71,18,38	0.7	0.7	1.0	0.4	1.0	1.0	18,28
		168.7	0.3	0.4	6.39e-02	71,18,38	0.4	0.7	1.0	0.2	1.0	1.0	18,28
		337.3	0.5	0.7	1.65e-02	71,18,38	0.7	0.7	1.0	0.4	1.0	1.0	18,28
173 ok	T,s=4,m=129	337.3	0.4	0.7	1.65e-02	65,64,38	1.35e-02	0.7	1.0	1.35e-02	1.0	1.0	64,64
		168.7	0.3	0.4	6.39e-02	65,18,38	0.4	0.7	1.0	0.2	1.0	1.0	18,28
		337.3	0.5	0.7	1.65e-02	65,18,38	0.7	0.7	1.0	0.4	1.0	1.0	18,28
Elem.			Ver N+/M	Ver N-/M	Ver V/T		Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)	
			0.76	0.78	0.16		0.94	0.08	0.95	0.94	1.00	1.00	

Elem.	w,net R	w,net F	w,net P	Rif. cmb	Kdef	w,net Ri	w,net Fi	w,net Pi	Rif. cmb
45	5.5	4.4	4.1	120,135,140	0.8	10.0	8.8	7.5	120,135,140
46	5.4	4.3	4.0	125,135,140	0.8	9.8	8.7	7.3	120,135,140
47	5.6	4.4	4.2	125,135,140	0.8	10.1	8.9	7.5	125,135,140
48	5.4	4.3	4.0	115,135,140	0.8	9.8	8.7	7.3	115,135,140
49	5.6	4.4	4.1	125,135,140	0.8	10.1	8.9	7.5	125,135,140
100	13.5	10.7	10.0	125,135,140	0.8	24.3	21.5	18.0	125,135,140
101	0.8	0.6	0.6	130,135,140	0.8	1.4	1.2	1.0	120,135,140
102	0.8	0.6	0.6	125,135,140	0.8	1.4	1.2	1.0	125,135,140
103	0.8	0.6	0.6	130,135,140	0.8	1.4	1.2	1.0	130,135,140
104	0.8	0.6	0.6	115,135,140	0.8	1.4	1.2	1.0	130,135,140
105	0.8	0.6	0.6	125,135,140	0.8	1.4	1.2	1.0	125,135,140
106	0.8	0.6	0.6	115,135,140	0.8	1.4	1.2	1.0	115,135,140
107	0.8	0.6	0.6	130,135,140	0.8	1.4	1.2	1.0	112,135,140
108	0.8	0.6	0.6	130,135,140	0.8	1.4	1.2	1.0	112,135,140
109	0.8	0.6	0.6	130,135,140	0.8	1.4	1.2	1.0	112,135,140
110	0.8	0.6	0.6	115,135,140	0.8	1.4	1.2	1.0	125,135,140
111	0.8	0.6	0.6	130,135,140	0.8	1.4	1.2	1.0	125,135,140
112	0.8	0.6	0.6	120,135,140	0.8	1.5	1.3	1.1	120,135,140
113	0.8	0.6	0.6	130,135,140	0.8	1.4	1.2	1.0	125,135,140
114	0.8	0.6	0.6	115,135,140	0.8	1.5	1.3	1.1	115,135,140
115	13.5	10.7	10.0	125,135,140	0.8	24.3	21.5	18.0	125,135,140
116	0.2	7.79e-02	5.53e-02	130,135,140	0.8	0.3	0.2	9.58e-02	130,135,140
117	0.2	0.2	0.2	127,138,140	0.8	0.4	0.4	0.4	127,138,140
118	0.4	0.4	0.3	125,135,140	0.8	0.8	0.7	0.6	125,135,140
119	0.2	0.2	0.2	125,135,140	0.8	0.4	0.4	0.3	125,135,140
120	9.31e-02	7.18e-02	6.84e-02	130,139,140	0.8	0.2	0.1	0.1	130,139,140
121	3.33e-02	2.11e-02	1.86e-02	116,136,140	0.8	6.12e-02	4.91e-02	3.47e-02	116,136,140
122	2.08e-02	8.49e-03	6.29e-03	116,136,140	0.8	3.88e-02	2.40e-02	1.16e-02	116,136,140
123	2.64e-02	1.13e-02	7.56e-03	122,137,140	0.8	4.78e-02	3.26e-02	1.32e-02	122,137,140
124	0.1	8.19e-02	7.85e-02	133,139,140	0.8	0.2	0.2	0.1	133,139,140
125	0.2	0.2	0.2	125,135,140	0.8	0.4	0.4	0.3	125,135,140
126	0.4	0.4	0.3	125,135,140	0.8	0.8	0.7	0.6	125,135,140
127	0.2	0.2	0.2	127,138,140	0.8	0.4	0.4	0.4	127,138,140
128	0.2	8.42e-02	5.95e-02	130,135,140	0.8	0.3	0.2	0.1	130,135,140
129	13.5	10.7	10.0	125,135,140	0.8	24.3	21.6	18.1	125,135,140
130	13.5	10.7	10.0	125,135,140	0.8	24.3	21.6	18.1	125,135,140
131	8.22e-02	7.81e-02	7.71e-02	127,138,140	0.8	0.1	0.1	0.1	127,138,140

Elem.	w,net R	w,net F	w,net P	Rif. cmb	Kdef	w,net Ri	w,net Fi	w,net Pi	Rif. cmb
132	0.5	0.4	0.4	125,135,140	0.8	0.8	0.8	0.8	125,135,140
133	0.4	0.4	0.4	125,135,140	0.8	0.8	0.7	0.6	125,135,140
134	0.3	0.3	0.3	125,135,140	0.8	0.6	0.5	0.5	125,135,140
135	0.2	0.1	0.1	130,138,140	0.8	0.3	0.2	0.2	130,135,140
136	5.58e-02	4.29e-02	4.08e-02	120,137,140	0.8	0.1	8.39e-02	7.31e-02	120,137,140
137	1.44e-02	8.08e-03	6.44e-03	116,136,140	0.8	2.61e-02	1.97e-02	1.17e-02	116,136,140
138	6.14e-02	4.85e-02	4.62e-02	117,136,140	0.8	0.1	9.52e-02	8.34e-02	117,136,140
139	0.2	0.1	0.1	130,135,140	0.8	0.3	0.3	0.2	130,135,140
140	0.3	0.3	0.3	125,135,140	0.8	0.6	0.5	0.5	125,135,140
141	0.4	0.4	0.4	125,135,140	0.8	0.8	0.7	0.6	125,135,140
142	0.5	0.4	0.4	125,135,140	0.8	0.8	0.8	0.8	125,135,140
143	8.19e-02	7.80e-02	7.70e-02	127,138,140	0.8	0.1	0.1	0.1	127,138,140
144	4.9	3.9	3.6	120,135,140	0.8	8.9	7.8	6.5	120,135,140
145	4.8	3.7	3.5	120,135,140	0.8	8.6	7.6	6.2	120,135,140
146	4.8	3.7	3.4	125,135,140	0.8	8.6	7.5	6.2	125,135,140
147	4.8	3.7	3.4	125,135,140	0.8	8.6	7.5	6.2	125,135,140
148	4.8	3.7	3.5	115,135,140	0.8	8.6	7.6	6.2	115,135,140
149	4.9	3.9	3.6	115,135,140	0.8	8.9	7.8	6.4	115,135,140
150	4.9	3.8	3.5	120,135,140	0.8	8.8	7.7	6.4	120,135,140
151	4.9	3.8	3.5	120,135,140	0.8	8.8	7.7	6.3	120,135,140
152	4.9	3.8	3.5	115,135,140	0.8	8.8	7.7	6.3	115,135,140
153	4.9	3.8	3.5	115,135,140	0.8	8.8	7.7	6.4	115,135,140
154	5.0	3.9	3.6	115,135,140	0.8	9.0	7.9	6.5	115,135,140
155	5.3	4.1	3.8	130,135,140	0.8	9.5	8.4	6.9	130,135,140
156	5.0	3.9	3.6	120,135,140	0.8	9.0	7.9	6.5	120,135,140
157	5.3	4.1	3.9	130,135,140	0.8	9.5	8.4	6.9	130,135,140
161	5.6	4.5	4.2	115,135,140	0.8	10.0	8.9	7.5	115,135,140
162	5.7	4.5	4.3	115,135,140	0.8	10.2	9.1	7.7	115,135,140
163	5.7	4.5	4.3	130,135,140	0.8	10.2	9.1	7.7	115,135,140
164	5.7	4.5	4.3	130,135,140	0.8	10.2	9.1	7.7	130,135,140
165	5.7	4.5	4.3	120,135,140	0.8	10.2	9.1	7.7	120,135,140
166	5.6	4.5	4.2	120,135,140	0.8	10.0	8.9	7.5	120,135,140
171	5.5	4.4	4.1	115,135,140	0.8	10.0	8.8	7.4	115,135,140
172	5.6	4.5	4.2	115,135,140	0.8	10.0	8.9	7.5	115,135,140
173	5.6	4.5	4.2	120,135,140	0.8	10.0	8.9	7.5	120,135,140
Elem.	w,net R	w,net F	w,net P			w,net Ri	w,net Fi	w,net Pi	
	13.52	10.74	10.04			24.35	21.56	18.07	

STATO LIMITE D' ESERCIZIO: SLD DANNO SISMICO

Le verifiche RES per SLD sono effettuate in accordo alle Norme Tecniche 17 Gennaio 2018 e alla circolare n.7 del 21 gennaio 2019 nonché alle linee guida del Consiglio Superiore LL.PP. "Linee guida per la Progettazione, l'Esecuzione ed il Collaudo di Interventi di Rinforzo di strutture di c.a., c.a.p. e murarie mediante FRP".

Le verifiche RES per SLD, sono riportate nelle successive tabelle nella forma di rapporto "domanda" su "capacità" e hanno esito positivo quando il rapporto è non superiore al valore unitario.

La "domanda" è ottenuta direttamente dall'analisi per le previste combinazioni SLD (NTC18 2.5.3. COMBINAZIONI DELLE AZIONI formula [2.5.5]).

Per "capacità" si intende qui il valore della sollecitazione corrispondente al raggiungimento dello stato limite di danno per la sezione: per la resistenza flessionale questo stato limite si identifica con la tensione di snervamento dell'acciaio o la resistenza massima a compressione per il calcestruzzo e la muratura. Lo stato limite di danno si ritiene attinto anche in caso di superamento della resistenza a taglio.

Le resistenze flessionali sono valutate utilizzando i legami costitutivi del materiale limitati al solo tratto elastico, ottenendo così resistenze sostanzialmente elastiche come previsto dalla norma.

La seguente tabella identifica per quali configurazioni (materiale nuovo, esistente, con rinforzi e metodo di analisi) sono state condotte le verifiche di seguito riportate.

Configurazione	Verifica SLD	NOTE
1) c.a. nuovo e esist. Verifica SLU con $q > 1$	Verifica N/M SE Verifica V/T	Sono verifiche per struttura non dissipativa condotte secondo il cap.4 NTC18 in regime sostanzialmente elastico; si verificano travi, pilastri, setti e gusci.
2) Muratura nuova Verifica SLU con $q > 1$	Verifica N/M SE Verifica V	Per N/M identificato SL elastico, per V formulazione secondo cap.7
3) Muratura esis. AO Verifica SLU con $q > 1$	Verifica N/M SE Verifica V	Per N/M identificato SL elastico, per V formulazione secondo cap. 7 e 8
4) Muratura esis. PO Verifica SLU con $q > 1$	Verifica N/M SE Verifica V	Per N/M identificato SL elastico, per V formulazione secondo cap. 7 e 8; Anche per rinforzi FRP è prevista verifica N/M SE e V

Simbologia adottata nelle tabelle di verifica

Per le verifiche agli SLD di pilastri, travi setti e gusci in c.a. è presente una tabella con i simboli di seguito descritti:

Pilas./Trave/ Setto/Guscio	numero identificativo dell'elemento D2 o D3
Stato	Codici relativi all'esito delle verifiche effettuate appresso descritte
Pos.	Posizione nell'elemento della sezione per la quale si riporta la verifica
V N/M	Verifica a pressoflessione con rapporto E_d/R_d : valore minore o uguale a 1 per verifica positiva
V V/T cls	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} lato cls: valore minore o uguale a 1 per verifica positiva
V V/T acc	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} lato acciaio: valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il pilastro

Per le verifiche agli SLD di maschi e fasce in muratura è presente una tabella con i simboli di seguito descritti:

Setto/Fascia/Elem.	numero del macroelemento (D3) o elemento (D2) considerato
Mat.	Materiale
s,m=	Indice della sezione e del materiale assegnati all' elemento (per D2)
Spessore	spessore dell'elemento
Stato	ok elemento verificato (SLD) NV elemento non verificato (SLD)

e a seguire:

Nodo/Pos.	numero del nodo appartenente al setto / posizione relativa al nodo I per D2
h0/t	valore della snellezza convenzionale
P/Ap	tensione verticale media utilizzata per la verifica a pressoflessione nel piano del muro
P/Acv	tensione verticale media nella parte compressa, utilizzata nella verifica a taglio nel piano del muro
Ver. Mp	rapporto tra il momento di progetto e il momento Mrd in relazione alla verifica Par. 7.8.2.2.1 (pressoflessione complanare) effettuato per tutte le combinazioni
Ver. V	rapporto il taglio di progetto e il taglio ultimo in relazione alla verifica Par. 7.8.2.2.2 (taglio complanare) o C8.7.1.16 della circolare 21-01-19 per edifici esistenti effettuato per tutte le combinazioni (solo per elementi maschi)
Ver. V	rapporto tra il taglio di progetto e il minore dei tagli resistenti Vp e Vt in relazione alla verifica del par. 7.8.2.2.3 (solo per elementi fasce)
Rif. cmb	Combinazioni in cui si hanno i massimi valori dei rapporti Ver. Mp, Ver. V

Per elementi consolidati secondo il paragrafo C8.5.3.1 il programma opera come per gli elementi non rinforzati, considerando ai fini delle analisi e delle verifiche gli opportuni coefficienti correttivi delle rigidezze e delle resistenze.

Per elementi consolidati con FRP il programma implementa le verifiche previste dalle "Linee guida per la Progettazione, l'Esecuzione ed il Collaudo di Interventi di Rinforzo di strutture di c.a., c.a.p. e murarie mediante FRP" approvate dal CSLPP il 24/07/2009.

Per elementi consolidati con FRCM il programma implementa le verifiche previste dalle CNR-DT 215/2018 "Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati a Matrice Inorganica"

Per semplicità la simbologia adottata nelle tabelle è uniformata a quella degli elementi non rinforzati.

Le tabelle riportano inoltre i seguenti parametri:

Fibra	Tipo di fibra del fibrorinforzo
E fibra	Modulo elastico del fibrorinforzo
epsr	Dilatazione di rottura del fibrorinforzo
epsd	Dilatazione di calcolo
epsd(s)	Dilatazione di calcolo per combinazioni sismiche
Spess.	Spessore del fibrorinforzo, il programma prevede l' applicazione di uno strato di spessore s su entrambe le facce della parete (o sui quattro lati della sezione in caso di confinamento)
AO fib.	Area orizzontale complessiva di fibrorinforzo per metro lineare
AV fib.	Area verticale complessiva di fibrorinforzo per metro lineare

Affinché l'elemento sia verificato deve essere:

Ver. Mp, Ver.V non superiore a 1

TABELLA VERIFICHE ELEMENTI D2 PILASTRI C.A.

Pilas.	Stato	Pos. cm	V N/M	V V/T cls	V V/T acc	Rif. cmb	Pos. cm	V N/M	V V/T cls	V V/T acc	Rif. cmb
516	ok	0.0	0.21	0.07	0.10	79,86,81	29.4	0.20	0.07	0.10	79,86,81



Pilas.	Stato	Pos.	V N/M	V V/T cls	V V/T acc	Rif. cmb	Pos.	V N/M	V V/T cls	V V/T acc	Rif. cmb
		58.7	0.19	0.07	0.10	87,86,81					
517	ok	0.0	0.13	0.04	0.06	82,81,88	29.4	0.12	0.04	0.06	82,81,88
		58.7	0.11	0.04	0.06	90,81,88					
518	ok	0.0	0.17	0.09	0.11	87,81,81	20.0	0.17	0.09	0.11	87,81,81
		40.0	0.17	0.09	0.11	87,81,81					
519	ok	0.0	0.12	0.05	0.07	90,80,80	20.0	0.13	0.05	0.07	90,80,80
		40.0	0.14	0.05	0.07	90,80,80					
520	ok	0.0	0.19	0.09	0.10	87,81,81	27.5	0.18	0.09	0.10	87,81,81
		55.0	0.17	0.09	0.10	87,81,81					
521	ok	0.0	0.12	0.05	0.06	90,80,80	27.5	0.12	0.05	0.06	90,80,80
		55.0	0.12	0.05	0.06	90,80,80					
522	ok	0.0	0.17	0.08	0.11	87,81,81	20.0	0.17	0.09	0.11	87,81,81
		40.0	0.17	0.09	0.11	87,81,81					
523	ok	0.0	0.14	0.05	0.08	90,80,80	20.0	0.14	0.05	0.08	90,80,80
		40.0	0.15	0.05	0.08	90,80,80					
524	ok	0.0	0.17	0.09	0.12	87,81,81	20.0	0.17	0.09	0.12	92,81,81
		40.0	0.18	0.09	0.12	88,81,81					
525	ok	0.0	0.15	0.06	0.08	90,80,80	20.0	0.15	0.06	0.08	90,80,80
		40.0	0.16	0.06	0.08	90,80,80					
526	ok	0.0	0.18	0.09	0.12	88,81,81	20.0	0.18	0.09	0.12	88,81,81
		40.0	0.18	0.09	0.12	88,81,81					
527	ok	0.0	0.16	0.07	0.09	90,80,80	20.0	0.16	0.07	0.09	90,80,80
		40.0	0.17	0.07	0.09	90,80,80					
528	ok	0.0	0.18	0.09	0.13	88,81,81	20.0	0.19	0.09	0.13	88,81,81
		40.0	0.19	0.09	0.13	88,81,81					
529	ok	0.0	0.17	0.08	0.10	90,80,84	20.0	0.18	0.08	0.10	90,80,84
		40.0	0.19	0.08	0.10	90,80,84					
530	ok	0.0	0.19	0.11	0.14	88,81,81	20.0	0.19	0.11	0.14	88,81,81
		40.0	0.20	0.11	0.14	88,81,81					
531	ok	0.0	0.19	0.09	0.12	90,80,83	20.0	0.20	0.09	0.12	90,80,83
		40.0	0.21	0.09	0.12	90,80,83					
532	ok	0.0	0.20	0.13	0.16	88,81,81	20.0	0.21	0.13	0.16	88,81,81
		40.0	0.23	0.13	0.16	88,81,81					
533	ok	0.0	0.21	0.10	0.14	90,86,83	20.0	0.23	0.10	0.14	90,86,83
		40.0	0.24	0.10	0.14	90,86,83					
534	ok	0.0	0.23	0.15	0.20	88,81,81	20.0	0.24	0.15	0.20	88,81,81
		40.0	0.26	0.15	0.20	89,81,81					
535	ok	0.0	0.24	0.15	0.18	90,86,86	20.0	0.26	0.15	0.18	90,86,86
		40.0	0.27	0.15	0.18	90,86,86					
536	ok	0.0	0.29	0.20	0.26	89,89,89	20.0	0.25	0.20	0.26	89,89,89
		40.0	0.21	0.20	0.26	89,89,89					
537	ok	0.0	0.27	0.21	0.24	87,94,94	20.0	0.23	0.21	0.24	87,94,94
		40.0	0.20	0.21	0.24	87,94,94					
538	ok	0.0	0.09	0.12	0.18	81,81,81	20.0	0.08	0.12	0.18	81,81,81
		40.0	0.07	0.12	0.18	84,81,81					
539	ok	0.0	0.09	0.13	0.18	90,82,82	20.0	0.08	0.13	0.18	82,82,82
		40.0	0.07	0.13	0.18	82,82,82					
540	ok	0.0	0.21	0.18	0.23	89,81,81	20.0	0.17	0.18	0.23	89,81,81
		40.0	0.14	0.18	0.23	89,81,81					
541	ok	0.0	0.19	0.19	0.23	87,94,94	20.0	0.16	0.19	0.23	87,94,94
		40.0	0.13	0.19	0.23	87,94,94					
542	ok	0.0	0.13	0.16	0.21	89,81,81	20.0	0.11	0.16	0.21	89,81,81
		40.0	0.10	0.16	0.21	81,81,81					
543	ok	0.0	0.12	0.16	0.21	87,86,87	20.0	0.11	0.16	0.21	90,86,87
		40.0	0.09	0.16	0.21	90,86,87					
Pilas.			V N/M	V V/T cls	V V/T acc			V N/M	V V/T cls	V V/T acc	
			0.29	0.21	0.26						

TABELLA VERIFICHE ELEMENTI D3 SETTI C.A.

Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
1	ok	17	0.07	0.0	0.0	87,0,0	3	0.09	0.0	0.0	87,0,0
		15	0.08	0.0	0.0	87,0,0	16	0.08	0.0	0.0	91,0,0
2	ok	16	0.08	0.0	0.0	87,0,0	15	0.09	0.0	0.0	91,0,0



Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
		18	0.08	0.0	0.0	87,0,0	19	0.09	0.0	0.0	87,0,0
3	ok	19	0.09	0.0	0.0	91,0,0	18	0.09	0.0	0.0	87,0,0
		20	0.19	0.0	0.0	107,0,0	21	0.18	0.0	0.0	91,0,0
4	ok	21	0.18	0.0	0.0	91,0,0	20	0.19	0.0	0.0	91,0,0
		22	0.26	0.0	0.0	85,0,0	23	0.19	0.0	0.0	85,0,0
5	ok	23	0.19	0.0	0.0	85,0,0	22	0.27	0.0	0.0	85,0,0
		24	0.26	0.0	0.0	85,0,0	25	0.15	0.0	0.0	85,0,0
6	ok	25	0.17	0.0	0.0	85,0,0	24	0.26	0.0	0.0	85,0,0
		26	0.11	0.0	0.0	88,0,0	27	0.10	0.0	0.0	88,0,0
7	ok	27	0.15	0.0	0.0	81,0,0	26	0.12	0.0	0.0	88,0,0
		28	0.12	0.0	0.0	88,0,0	29	0.12	0.0	0.0	89,0,0
8	ok	29	0.11	0.0	0.0	88,0,0	28	0.13	0.0	0.0	88,0,0
		30	0.14	0.0	0.0	89,0,0	31	0.14	0.0	0.0	89,0,0
9	ok	33	0.05	0.0	0.0	92,0,0	17	0.08	0.0	0.0	87,0,0
		16	0.09	0.0	0.0	87,0,0	32	0.08	0.0	0.0	92,0,0
10	ok	32	0.13	0.0	0.0	87,0,0	16	0.08	0.0	0.0	91,0,0
		19	0.07	0.0	0.0	87,0,0	34	0.15	0.0	0.0	79,0,0
11	ok	34	0.10	0.0	0.0	83,0,0	19	0.09	0.0	0.0	91,0,0
		21	0.18	0.0	0.0	83,0,0	35	0.26	0.0	0.0	105,0,0
12	ok	35	0.14	0.0	0.0	105,0,0	21	0.19	0.0	0.0	107,0,0
		23	0.17	0.0	0.0	85,0,0	36	0.07	0.0	0.0	88,0,0
13	ok	36	0.07	0.0	0.0	88,0,0	23	0.18	0.0	0.0	85,0,0
		25	0.13	0.0	0.0	81,0,0	37	0.08	0.0	0.0	88,0,0
14	ok	37	0.08	0.0	0.0	88,0,0	25	0.13	0.0	0.0	81,0,0
		27	0.10	0.0	0.0	88,0,0	38	0.08	0.0	0.0	88,0,0
15	ok	38	0.09	0.0	0.0	88,0,0	27	0.10	0.0	0.0	88,0,0
		29	0.11	0.0	0.0	89,0,0	39	0.08	0.0	0.0	92,0,0
16	ok	39	0.09	0.0	0.0	88,0,0	29	0.12	0.0	0.0	81,0,0
		31	0.13	0.0	0.0	89,0,0	40	0.07	0.0	0.0	91,0,0
17	ok	42	0.06	0.0	0.0	84,0,0	33	0.05	0.0	0.0	92,0,0
		32	0.08	0.0	0.0	92,0,0	41	0.31	0.0	0.0	105,0,0
18	ok	426	0.46	0.0	0.0	85,0,0	416	0.18	0.0	0.0	85,0,0
		417	0.74	0.0	0.0	93,0,0	433	0.20	0.0	0.0	105,0,0
19	ok	43	0.67	0.0	0.0	84,0,0	34	0.20	0.0	0.0	84,0,0
		35	0.20	0.0	0.0	85,0,0	44	0.04	0.0	0.0	80,0,0
20	ok	44	0.06	0.0	0.0	84,0,0	35	0.16	0.0	0.0	85,0,0
		36	0.07	0.0	0.0	88,0,0	45	0.05	0.0	0.0	88,0,0
21	ok	45	0.05	0.0	0.0	88,0,0	36	0.07	0.0	0.0	88,0,0
		37	0.07	0.0	0.0	88,0,0	46	0.06	0.0	0.0	88,0,0
22	ok	46	0.06	0.0	0.0	88,0,0	37	0.08	0.0	0.0	88,0,0
		38	0.08	0.0	0.0	88,0,0	47	0.07	0.0	0.0	88,0,0
23	ok	47	0.07	0.0	0.0	88,0,0	38	0.08	0.0	0.0	88,0,0
		39	0.09	0.0	0.0	88,0,0	48	0.07	0.0	0.0	88,0,0
24	ok	48	0.07	0.0	0.0	88,0,0	39	0.08	0.0	0.0	88,0,0
		40	0.08	0.0	0.0	89,0,0	49	0.07	0.0	0.0	89,0,0
25	ok	51	0.04	0.0	0.0	84,0,0	42	0.06	0.0	0.0	84,0,0
		41	0.21	0.0	0.0	84,0,0	50	0.06	0.0	0.0	84,0,0
26	ok	435	0.05	0.0	0.0	107,0,0	425	0.07	0.0	0.0	103,0,0
		424	0.10	0.0	0.0	85,0,0	434	0.13	0.0	0.0	85,0,0
27	ok	52	0.07	0.0	0.0	92,0,0	43	0.63	0.0	0.0	105,0,0
		44	0.05	0.0	0.0	84,0,0	53	0.28	0.0	0.0	84,0,0
28	ok	53	0.21	0.0	0.0	84,0,0	44	0.08	0.0	0.0	84,0,0
		45	0.05	0.0	0.0	92,0,0	54	0.10	0.0	0.0	84,0,0
29	ok	54	0.11	0.0	0.0	80,0,0	45	0.05	0.0	0.0	88,0,0
		46	0.06	0.0	0.0	88,0,0	55	0.06	0.0	0.0	80,0,0
30	ok	55	0.07	0.0	0.0	80,0,0	46	0.06	0.0	0.0	88,0,0
		47	0.07	0.0	0.0	88,0,0	56	0.05	0.0	0.0	88,0,0
31	ok	56	0.05	0.0	0.0	88,0,0	47	0.07	0.0	0.0	88,0,0
		48	0.07	0.0	0.0	88,0,0	57	0.05	0.0	0.0	81,0,0
32	ok	57	0.06	0.0	0.0	81,0,0	48	0.06	0.0	0.0	80,0,0
		49	0.08	0.0	0.0	92,0,0	58	0.07	0.0	0.0	92,0,0
33	ok	60	0.05	0.0	0.0	79,0,0	51	0.06	0.0	0.0	84,0,0
		50	0.05	0.0	0.0	83,0,0	59	0.08	0.0	0.0	84,0,0
34	ok	59	0.16	0.0	0.0	84,0,0	50	0.23	0.0	0.0	84,0,0
		52	0.17	0.0	0.0	84,0,0	61	0.08	0.0	0.0	92,0,0
35	ok	61	0.08	0.0	0.0	92,0,0	52	0.10	0.0	0.0	92,0,0
		53	0.29	0.0	0.0	80,0,0	62	0.12	0.0	0.0	84,0,0
36	ok	62	0.10	0.0	0.0	80,0,0	53	0.19	0.0	0.0	80,0,0
		54	0.08	0.0	0.0	80,0,0	63	0.07	0.0	0.0	80,0,0
37	ok	63	0.08	0.0	0.0	80,0,0	54	0.11	0.0	0.0	80,0,0



Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
		55	0.05	0.0	0.0	92,0,0	64	0.06	0.0	0.0	80,0,0
38	ok	64	0.07	0.0	0.0	80,0,0	55	0.06	0.0	0.0	80,0,0
		56	0.05	0.0	0.0	88,0,0	65	0.05	0.0	0.0	80,0,0
39	ok	65	0.06	0.0	0.0	84,0,0	56	0.05	0.0	0.0	88,0,0
		57	0.05	0.0	0.0	88,0,0	66	0.05	0.0	0.0	92,0,0
40	ok	66	0.06	0.0	0.0	88,0,0	57	0.05	0.0	0.0	89,0,0
		58	0.07	0.0	0.0	92,0,0	67	0.06	0.0	0.0	92,0,0
41	ok	69	0.06	0.0	0.0	84,0,0	60	0.05	0.0	0.0	79,0,0
		59	0.06	0.0	0.0	84,0,0	68	0.06	0.0	0.0	84,0,0
42	ok	68	0.11	0.0	0.0	84,0,0	59	0.10	0.0	0.0	84,0,0
		61	0.09	0.0	0.0	84,0,0	70	0.14	0.0	0.0	84,0,0
43	ok	70	0.09	0.0	0.0	80,0,0	61	0.07	0.0	0.0	92,0,0
		62	0.07	0.0	0.0	80,0,0	71	0.05	0.0	0.0	80,0,0
44	ok	71	0.05	0.0	0.0	80,0,0	62	0.06	0.0	0.0	92,0,0
		63	0.06	0.0	0.0	80,0,0	72	0.04	0.0	0.0	92,0,0
45	ok	72	0.04	0.0	0.0	84,0,0	63	0.07	0.0	0.0	80,0,0
		64	0.05	0.0	0.0	80,0,0	73	0.05	0.0	0.0	80,0,0
46	ok	73	0.06	0.0	0.0	80,0,0	64	0.06	0.0	0.0	80,0,0
		65	0.05	0.0	0.0	88,0,0	74	0.06	0.0	0.0	88,0,0
47	ok	74	0.07	0.0	0.0	88,0,0	65	0.06	0.0	0.0	88,0,0
		66	0.05	0.0	0.0	88,0,0	75	0.06	0.0	0.0	88,0,0
48	ok	75	0.07	0.0	0.0	80,0,0	66	0.06	0.0	0.0	92,0,0
		67	0.06	0.0	0.0	92,0,0	76	0.07	0.0	0.0	80,0,0
49	ok	78	0.18	0.0	0.0	80,0,0	69	0.06	0.0	0.0	80,0,0
		68	0.06	0.0	0.0	84,0,0	77	0.09	0.0	0.0	84,0,0
50	ok	77	0.14	0.0	0.0	84,0,0	68	0.20	0.0	0.0	80,0,0
		70	0.20	0.0	0.0	84,0,0	79	0.37	0.0	0.0	84,0,0
51	ok	79	0.20	0.0	0.0	84,0,0	70	0.13	0.0	0.0	84,0,0
		71	0.05	0.0	0.0	80,0,0	80	0.09	0.0	0.0	80,0,0
52	ok	80	0.08	0.0	0.0	80,0,0	71	0.04	0.0	0.0	80,0,0
		72	0.04	0.0	0.0	88,0,0	81	0.06	0.0	0.0	80,0,0
53	ok	81	0.08	0.0	0.0	84,0,0	72	0.04	0.0	0.0	80,0,0
		73	0.05	0.0	0.0	84,0,0	82	0.07	0.0	0.0	84,0,0
54	ok	82	0.08	0.0	0.0	88,0,0	73	0.06	0.0	0.0	88,0,0
		74	0.06	0.0	0.0	88,0,0	83	0.07	0.0	0.0	88,0,0
55	ok	83	0.08	0.0	0.0	80,0,0	74	0.07	0.0	0.0	88,0,0
		75	0.06	0.0	0.0	80,0,0	84	0.07	0.0	0.0	80,0,0
56	ok	84	0.08	0.0	0.0	80,0,0	75	0.07	0.0	0.0	80,0,0
		76	0.06	0.0	0.0	80,0,0	85	0.05	0.0	0.0	80,0,0
57	ok	87	0.15	0.0	0.0	80,0,0	78	0.25	0.0	0.0	84,0,0
		77	0.10	0.0	0.0	92,0,0	86	0.31	0.0	0.0	93,0,0
58	ok	425	0.08	0.0	0.0	107,0,0	415	0.11	0.0	0.0	107,0,0
		408	0.08	0.0	0.0	85,0,0	424	0.08	0.0	0.0	85,0,0
59	ok	88	0.07	0.0	0.0	84,0,0	79	0.36	0.0	0.0	84,0,0
		80	0.08	0.0	0.0	84,0,0	89	0.14	0.0	0.0	84,0,0
60	ok	89	0.14	0.0	0.0	84,0,0	80	0.10	0.0	0.0	84,0,0
		81	0.07	0.0	0.0	84,0,0	90	0.11	0.0	0.0	84,0,0
61	ok	90	0.11	0.0	0.0	92,0,0	81	0.08	0.0	0.0	80,0,0
		82	0.07	0.0	0.0	88,0,0	91	0.08	0.0	0.0	88,0,0
62	ok	91	0.09	0.0	0.0	80,0,0	82	0.08	0.0	0.0	88,0,0
		83	0.07	0.0	0.0	80,0,0	92	0.07	0.0	0.0	80,0,0
63	ok	92	0.07	0.0	0.0	80,0,0	83	0.07	0.0	0.0	80,0,0
		84	0.07	0.0	0.0	80,0,0	93	0.05	0.0	0.0	80,0,0
64	ok	93	0.06	0.0	0.0	80,0,0	84	0.08	0.0	0.0	80,0,0
		85	0.05	0.0	0.0	80,0,0	94	0.06	0.0	0.0	80,0,0
65	ok	96	0.14	0.0	0.0	84,0,0	87	0.20	0.0	0.0	80,0,0
		86	0.08	0.0	0.0	84,0,0	95	0.46	0.0	0.0	84,0,0
66	ok	424	0.13	0.0	0.0	85,0,0	408	0.08	0.0	0.0	107,0,0
		416	0.31	0.0	0.0	85,0,0	426	0.27	0.0	0.0	85,0,0
67	ok	97	0.10	0.0	0.0	92,0,0	88	0.24	0.0	0.0	109,0,0
		89	0.11	0.0	0.0	88,0,0	98	0.11	0.0	0.0	110,0,0
68	ok	98	0.07	0.0	0.0	92,0,0	89	0.15	0.0	0.0	84,0,0
		90	0.10	0.0	0.0	84,0,0	99	0.07	0.0	0.0	84,0,0
69	ok	99	0.07	0.0	0.0	80,0,0	90	0.11	0.0	0.0	88,0,0
		91	0.08	0.0	0.0	80,0,0	100	0.06	0.0	0.0	80,0,0
70	ok	100	0.07	0.0	0.0	80,0,0	91	0.08	0.0	0.0	80,0,0
		92	0.06	0.0	0.0	80,0,0	101	0.05	0.0	0.0	80,0,0
71	ok	101	0.06	0.0	0.0	80,0,0	92	0.06	0.0	0.0	80,0,0
		93	0.06	0.0	0.0	80,0,0	102	0.05	0.0	0.0	80,0,0
72	ok	102	0.06	0.0	0.0	80,0,0	93	0.07	0.0	0.0	80,0,0



Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
		94	0.06	0.0	0.0	80,0,0	103	0.07	0.0	0.0	80,0,0
73	ok	105	0.12	0.0	0.0	84,0,0	96	0.16	0.0	0.0	84,0,0
		95	0.26	0.0	0.0	84,0,0	104	0.21	0.0	0.0	84,0,0
74	ok	104	0.27	0.0	0.0	84,0,0	95	0.41	0.0	0.0	84,0,0
		97	0.13	0.0	0.0	84,0,0	106	0.22	0.0	0.0	80,0,0
75	ok	106	0.05	0.0	0.0	84,0,0	97	0.08	0.0	0.0	92,0,0
		98	0.06	0.0	0.0	94,0,0	107	0.05	0.0	0.0	84,0,0
76	ok	107	0.05	0.0	0.0	92,0,0	98	0.05	0.0	0.0	92,0,0
		99	0.04	0.0	0.0	80,0,0	108	0.04	0.0	0.0	92,0,0
77	ok	108	0.04	0.0	0.0	92,0,0	99	0.07	0.0	0.0	80,0,0
		100	0.05	0.0	0.0	80,0,0	109	0.04	0.0	0.0	92,0,0
78	ok	109	0.04	0.0	0.0	92,0,0	100	0.06	0.0	0.0	80,0,0
		101	0.05	0.0	0.0	80,0,0	110	0.04	0.0	0.0	80,0,0
79	ok	110	0.04	0.0	0.0	80,0,0	101	0.06	0.0	0.0	80,0,0
		102	0.06	0.0	0.0	80,0,0	111	0.05	0.0	0.0	80,0,0
80	ok	111	0.06	0.0	0.0	80,0,0	102	0.07	0.0	0.0	80,0,0
		103	0.06	0.0	0.0	80,0,0	112	0.06	0.0	0.0	80,0,0
81	ok	114	0.14	0.0	0.0	84,0,0	105	0.15	0.0	0.0	84,0,0
		104	0.19	0.0	0.0	84,0,0	113	0.14	0.0	0.0	84,0,0
82	ok	113	0.15	0.0	0.0	84,0,0	104	0.24	0.0	0.0	84,0,0
		106	0.08	0.0	0.0	84,0,0	115	0.11	0.0	0.0	84,0,0
83	ok	115	0.08	0.0	0.0	84,0,0	106	0.05	0.0	0.0	84,0,0
		107	0.05	0.0	0.0	84,0,0	116	0.04	0.0	0.0	84,0,0
84	ok	116	0.04	0.0	0.0	84,0,0	107	0.04	0.0	0.0	92,0,0
		108	0.04	0.0	0.0	92,0,0	117	0.04	0.0	0.0	92,0,0
85	ok	117	0.03	0.0	0.0	92,0,0	108	0.04	0.0	0.0	92,0,0
		109	0.04	0.0	0.0	92,0,0	118	0.03	0.0	0.0	92,0,0
86	ok	118	0.03	0.0	0.0	80,0,0	109	0.04	0.0	0.0	92,0,0
		110	0.04	0.0	0.0	80,0,0	119	0.03	0.0	0.0	80,0,0
87	ok	119	0.04	0.0	0.0	80,0,0	110	0.05	0.0	0.0	80,0,0
		111	0.05	0.0	0.0	80,0,0	120	0.04	0.0	0.0	80,0,0
88	ok	120	0.05	0.0	0.0	80,0,0	111	0.06	0.0	0.0	80,0,0
		112	0.06	0.0	0.0	80,0,0	121	0.06	0.0	0.0	80,0,0
89	ok	123	0.10	0.0	0.0	84,0,0	114	0.13	0.0	0.0	84,0,0
		113	0.14	0.0	0.0	84,0,0	122	0.11	0.0	0.0	80,0,0
90	ok	122	0.11	0.0	0.0	84,0,0	113	0.15	0.0	0.0	84,0,0
		115	0.10	0.0	0.0	84,0,0	124	0.10	0.0	0.0	84,0,0
91	ok	124	0.09	0.0	0.0	84,0,0	115	0.09	0.0	0.0	84,0,0
		116	0.04	0.0	0.0	84,0,0	125	0.04	0.0	0.0	84,0,0
92	ok	125	0.03	0.0	0.0	84,0,0	116	0.04	0.0	0.0	84,0,0
		117	0.04	0.0	0.0	84,0,0	126	0.03	0.0	0.0	84,0,0
93	ok	126	0.03	0.0	0.0	84,0,0	117	0.04	0.0	0.0	84,0,0
		118	0.03	0.0	0.0	92,0,0	127	0.03	0.0	0.0	80,0,0
94	ok	127	0.03	0.0	0.0	80,0,0	118	0.03	0.0	0.0	80,0,0
		119	0.03	0.0	0.0	80,0,0	128	0.03	0.0	0.0	80,0,0
95	ok	128	0.04	0.0	0.0	80,0,0	119	0.04	0.0	0.0	80,0,0
		120	0.05	0.0	0.0	80,0,0	129	0.04	0.0	0.0	80,0,0
96	ok	129	0.05	0.0	0.0	80,0,0	120	0.06	0.0	0.0	80,0,0
		121	0.06	0.0	0.0	80,0,0	130	0.06	0.0	0.0	83,0,0
97	ok	132	0.04	0.0	0.0	84,0,0	123	0.11	0.0	0.0	80,0,0
		122	0.10	0.0	0.0	80,0,0	131	0.06	0.0	0.0	80,0,0
98	ok	131	0.08	0.0	0.0	84,0,0	122	0.12	0.0	0.0	84,0,0
		124	0.10	0.0	0.0	84,0,0	133	0.12	0.0	0.0	84,0,0
99	ok	133	0.09	0.0	0.0	84,0,0	124	0.10	0.0	0.0	84,0,0
		125	0.05	0.0	0.0	84,0,0	134	0.03	0.0	0.0	84,0,0
100	ok	134	0.03	0.0	0.0	84,0,0	125	0.04	0.0	0.0	84,0,0
		126	0.03	0.0	0.0	84,0,0	135	0.03	0.0	0.0	80,0,0
101	ok	135	0.03	0.0	0.0	80,0,0	126	0.03	0.0	0.0	84,0,0
		127	0.03	0.0	0.0	80,0,0	136	0.03	0.0	0.0	80,0,0
102	ok	136	0.03	0.0	0.0	80,0,0	127	0.03	0.0	0.0	80,0,0
		128	0.03	0.0	0.0	80,0,0	137	0.04	0.0	0.0	80,0,0
103	ok	137	0.04	0.0	0.0	80,0,0	128	0.04	0.0	0.0	80,0,0
		129	0.05	0.0	0.0	80,0,0	138	0.05	0.0	0.0	83,0,0
104	ok	138	0.06	0.0	0.0	83,0,0	129	0.06	0.0	0.0	80,0,0
		130	0.07	0.0	0.0	83,0,0	139	0.06	0.0	0.0	83,0,0
105	ok	141	0.08	0.0	0.0	84,0,0	132	0.05	0.0	0.0	84,0,0
		131	0.05	0.0	0.0	80,0,0	140	0.06	0.0	0.0	84,0,0
106	ok	140	0.09	0.0	0.0	84,0,0	131	0.17	0.0	0.0	80,0,0
		133	0.14	0.0	0.0	84,0,0	142	0.26	0.0	0.0	84,0,0
107	ok	142	0.14	0.0	0.0	84,0,0	133	0.12	0.0	0.0	84,0,0



Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
		134	0.03	0.0	0.0	84,0,0	143	0.05	0.0	0.0	84,0,0
108	ok	143	0.05	0.0	0.0	84,0,0	134	0.03	0.0	0.0	84,0,0
		135	0.03	0.0	0.0	84,0,0	144	0.04	0.0	0.0	84,0,0
109	ok	144	0.04	0.0	0.0	80,0,0	135	0.03	0.0	0.0	80,0,0
		136	0.03	0.0	0.0	80,0,0	145	0.03	0.0	0.0	80,0,0
110	ok	145	0.04	0.0	0.0	80,0,0	136	0.04	0.0	0.0	80,0,0
		137	0.04	0.0	0.0	80,0,0	146	0.04	0.0	0.0	80,0,0
111	ok	146	0.04	0.0	0.0	83,0,0	137	0.04	0.0	0.0	80,0,0
		138	0.05	0.0	0.0	83,0,0	147	0.05	0.0	0.0	83,0,0
112	ok	147	0.05	0.0	0.0	83,0,0	138	0.06	0.0	0.0	83,0,0
		139	0.07	0.0	0.0	83,0,0	148	0.07	0.0	0.0	85,0,0
113	ok	150	0.08	0.0	0.0	104,0,0	141	0.15	0.0	0.0	84,0,0
		140	0.08	0.0	0.0	84,0,0	149	0.23	0.0	0.0	85,0,0
114	ok	408	0.07	0.0	0.0	82,0,0	1491	0.07	0.0	0.0	107,0,0
		1493	0.22	0.0	0.0	85,0,0	416	0.24	0.0	0.0	85,0,0
115	ok	151	0.07	0.0	0.0	104,0,0	142	0.27	0.0	0.0	104,0,0
		143	0.05	0.0	0.0	84,0,0	152	0.10	0.0	0.0	84,0,0
116	ok	152	0.07	0.0	0.0	84,0,0	143	0.06	0.0	0.0	84,0,0
		144	0.05	0.0	0.0	84,0,0	153	0.05	0.0	0.0	84,0,0
117	ok	153	0.05	0.0	0.0	84,0,0	144	0.05	0.0	0.0	84,0,0
		145	0.04	0.0	0.0	84,0,0	154	0.03	0.0	0.0	84,0,0
118	ok	154	0.04	0.0	0.0	84,0,0	145	0.04	0.0	0.0	80,0,0
		146	0.04	0.0	0.0	80,0,0	155	0.03	0.0	0.0	80,0,0
119	ok	155	0.03	0.0	0.0	84,0,0	146	0.04	0.0	0.0	80,0,0
		147	0.05	0.0	0.0	83,0,0	156	0.04	0.0	0.0	85,0,0
120	ok	156	0.05	0.0	0.0	85,0,0	147	0.05	0.0	0.0	83,0,0
		148	0.07	0.0	0.0	85,0,0	157	0.07	0.0	0.0	85,0,0
121	ok	159	0.05	0.0	0.0	84,0,0	150	0.10	0.0	0.0	84,0,0
		149	0.05	0.0	0.0	104,0,0	158	0.25	0.0	0.0	84,0,0
122	ok	416	0.33	0.0	0.0	85,0,0	1493	0.10	0.0	0.0	85,0,0
		1495	0.76	0.0	0.0	85,0,0	417	0.40	0.0	0.0	85,0,0
123	ok	160	0.05	0.0	0.0	84,0,0	151	0.20	0.0	0.0	85,0,0
		152	0.07	0.0	0.0	84,0,0	161	0.09	0.0	0.0	79,0,0
124	ok	161	0.05	0.0	0.0	84,0,0	152	0.08	0.0	0.0	108,0,0
		153	0.05	0.0	0.0	84,0,0	162	0.06	0.0	0.0	84,0,0
125	ok	162	0.05	0.0	0.0	84,0,0	153	0.06	0.0	0.0	84,0,0
		154	0.04	0.0	0.0	84,0,0	163	0.04	0.0	0.0	84,0,0
126	ok	163	0.04	0.0	0.0	84,0,0	154	0.04	0.0	0.0	84,0,0
		155	0.03	0.0	0.0	84,0,0	164	0.03	0.0	0.0	84,0,0
127	ok	164	0.04	0.0	0.0	84,0,0	155	0.04	0.0	0.0	84,0,0
		156	0.04	0.0	0.0	83,0,0	165	0.04	0.0	0.0	84,0,0
128	ok	165	0.04	0.0	0.0	84,0,0	156	0.05	0.0	0.0	83,0,0
		157	0.06	0.0	0.0	85,0,0	166	0.06	0.0	0.0	81,0,0
129	ok	168	0.03	0.0	0.0	85,0,0	159	0.06	0.0	0.0	84,0,0
		158	0.16	0.0	0.0	84,0,0	167	0.12	0.0	0.0	84,0,0
130	ok	167	0.16	0.0	0.0	84,0,0	158	0.24	0.0	0.0	84,0,0
		160	0.10	0.0	0.0	84,0,0	169	0.06	0.0	0.0	84,0,0
131	ok	169	0.04	0.0	0.0	84,0,0	160	0.06	0.0	0.0	84,0,0
		161	0.07	0.0	0.0	84,0,0	170	0.04	0.0	0.0	84,0,0
132	ok	170	0.03	0.0	0.0	84,0,0	161	0.06	0.0	0.0	84,0,0
		162	0.03	0.0	0.0	84,0,0	171	0.03	0.0	0.0	84,0,0
133	ok	171	0.03	0.0	0.0	84,0,0	162	0.04	0.0	0.0	84,0,0
		163	0.03	0.0	0.0	84,0,0	172	0.03	0.0	0.0	84,0,0
134	ok	172	0.04	0.0	0.0	80,0,0	163	0.05	0.0	0.0	80,0,0
		164	0.04	0.0	0.0	80,0,0	173	0.04	0.0	0.0	80,0,0
135	ok	173	0.04	0.0	0.0	80,0,0	164	0.05	0.0	0.0	80,0,0
		165	0.04	0.0	0.0	81,0,0	174	0.05	0.0	0.0	94,0,0
136	ok	174	0.05	0.0	0.0	90,0,0	165	0.05	0.0	0.0	80,0,0
		166	0.07	0.0	0.0	86,0,0	175	0.08	0.0	0.0	86,0,0
137	ok	177	0.04	0.0	0.0	84,0,0	168	0.04	0.0	0.0	85,0,0
		167	0.09	0.0	0.0	84,0,0	176	0.04	0.0	0.0	81,0,0
138	ok	176	0.04	0.0	0.0	81,0,0	167	0.12	0.0	0.0	84,0,0
		169	0.05	0.0	0.0	84,0,0	178	0.04	0.0	0.0	92,0,0
139	ok	178	0.03	0.0	0.0	84,0,0	169	0.04	0.0	0.0	84,0,0
		170	0.04	0.0	0.0	84,0,0	179	0.03	0.0	0.0	85,0,0
140	ok	179	0.02	0.0	0.0	84,0,0	170	0.03	0.0	0.0	84,0,0
		171	0.03	0.0	0.0	84,0,0	180	0.03	0.0	0.0	82,0,0
141	ok	180	0.02	0.0	0.0	82,0,0	171	0.03	0.0	0.0	84,0,0
		172	0.03	0.0	0.0	79,0,0	181	0.03	0.0	0.0	82,0,0
142	ok	181	0.03	0.0	0.0	86,0,0	172	0.03	0.0	0.0	83,0,0



Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
		173	0.03	0.0	0.0	79,0,0	182	0.04	0.0	0.0	82,0,0
143	ok	182	0.04	0.0	0.0	86,0,0	173	0.03	0.0	0.0	83,0,0
		174	0.05	0.0	0.0	82,0,0	183	0.06	0.0	0.0	82,0,0
144	ok	183	0.07	0.0	0.0	82,0,0	174	0.05	0.0	0.0	82,0,0
		175	0.08	0.0	0.0	82,0,0	184	0.09	0.0	0.0	82,0,0
145	ok	186	0.12	0.0	0.0	84,0,0	177	0.06	0.0	0.0	84,0,0
		176	0.04	0.0	0.0	81,0,0	185	0.05	0.0	0.0	86,0,0
146	ok	185	0.08	0.0	0.0	81,0,0	176	0.05	0.0	0.0	85,0,0
		178	0.07	0.0	0.0	84,0,0	187	0.14	0.0	0.0	85,0,0
147	ok	187	0.08	0.0	0.0	84,0,0	178	0.05	0.0	0.0	84,0,0
		179	0.03	0.0	0.0	81,0,0	188	0.04	0.0	0.0	85,0,0
148	ok	188	0.03	0.0	0.0	85,0,0	179	0.02	0.0	0.0	85,0,0
		180	0.02	0.0	0.0	83,0,0	189	0.03	0.0	0.0	86,0,0
149	ok	189	0.03	0.0	0.0	82,0,0	180	0.02	0.0	0.0	83,0,0
		181	0.03	0.0	0.0	86,0,0	190	0.04	0.0	0.0	86,0,0
...											
1649	ok	1844	0.08	0.0	0.0	100,0,0	1846	0.04	0.0	0.0	92,0,0
Setto			V N/M	V V/T cls	V V/T acc			V N/M	V V/T cls	V V/T acc	
			0.89	0.25	0.75						