



**CITTA' DI SCAFATI**  
 \*Croce al Valor Militare e  
 Medaglia d'oro alla Resistenza\*

# CITTA' DI SCAFATI

(Provincia di Salerno)

Lavori di Adeguamento Sismico della Scuola Elementare e Materna Ferdinando II di Borbone di Via Genova – CUP: G83H19000720001

## CORPO C

**PNRR: Missione 5-Componente 2 Investimento/Subinvestimento 2.1 "Rigenerazione Urbana"**

### STAZIONE APPALTANTE

Comune di Scafati (SA) – Via P. Melchiade - 84018

Settore VI – LL.PP. e Manutenzione

Descrizione

**PROGETTO DEFINITIVO-ESECUTIVO**  
 Fascicolo dei calcoli stato di fatto

Codice

C\_RT\_05



Scala

-

Il R.U.P.

Arch. Mirko Sasso

Scafati, 2 maggio 2023

Il RTP

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 Iscrizione all'Albo n° 63240  
 alla Sezione degli Ingegneri della Provincia di Salerno  
 - SETTORE VI - LL.PP. e MANUTENZIONE  
 DELLA PROVINCIA DI SALERNO



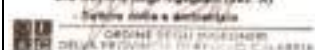
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 DELLA PROVINCIA DI SALERNO





## FASCICOLO DEI CALCOLI STATO DI FATTO

Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	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. Via Garibaldi, 90 44121 Ferrara FE ( Italy) Tel. +39 0532 200091 www.2si.it

Descrizione	
Progetto	
Ubicazione	Comune di SCAFATI (SA) (Regione CAMPANIA)
	Località SCAFATI (SA)
	Longitudine 14.530, Latitudine 40.754
Progettista	

In merito al punto 10.2 delle Norme Tecniche per le Costruzioni (*Affidabilità dei codici utilizzati*), si fa riferimento al **Documento di Affidabilità** “Test di validazione del software di calcolo PRO\_SAP e dei moduli aggiuntivi PRO\_SAP Modulo Geotecnico, PRO\_CAD nodi acciaio e PRO\_MST” disponibile per il download sul sito: <https://www.2si.it/it/prodotti/affidabilita/>

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## CARATTERISTICHE MATERIALI UTILIZZATI

### LEGENDA TABELLA DATI MATERIALI

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

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

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

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

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

1	c.a.	Resistenza Rc	resistenza a compressione cubica
		Resistenza fctm	resistenza media a trazione semplice
		Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft	Valore della tensione di rottura
		Tensione fy	Valore della tensione di snervamento
		Resistenza fd	Resistenza di calcolo per SL CNR-UNI 10011
		Resistenza fd (>40)	Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm
		Tensione ammissibile	Tensione ammissibile CNR-UNI 10011
		Tensione ammissibile(>40)	Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura	Muratura consolidata	Muratura per la quale si prevedono interventi di rinforzo"
		Incremento resistenza	Incremento conseguito in termini di resistenza







Pareti c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
<b>Generalità</b>						
Progetto armatura	Singolo elemento	Singolo elemento	Singolo elemento	Singolo elemento	Singolo elemento	Singolo elemento
		FONDAZIONE	NON DISSIPATIVO			
<b>Armatura</b>						
Inclinazione Av [ gradi ]	90.00	90.00	90.00	90.00	90.00	90.00
Angolo Av-Ao [ gradi ]	90.00	90.00	90.00	90.00	90.00	90.00
Minima tesa	0.20	0.20	0.20	2.000e-02	2.000e-02	2.000e-02
Massima tesa	4.00	4.00	4.00	4.00	4.00	4.00
Maglia unica centrale	NO	NO	NO	NO	NO	NO
Unico strato verticale	NO	NO	NO	NO	NO	NO
Unico strato orizzontale	NO	NO	NO	NO	NO	NO
Copriferro [ cm ]	2.00	2.00	2.00	4.00	2.00	2.00
<b>Maglia V</b>						
diámetro	10	10	10	6	10	10
passo	25	25	25	200	25	25
diámetro aggiuntivi	12	12	12	6	12	12
<b>Maglia O</b>						
diámetro	10	10	10	6	10	10
passo	25	25	25	200	25	25
diámetro aggiuntivi	12	12	12	6	12	12
<b>Stati limite ultimi</b>						
Tensione fy [ N/mm2 ]	450.00	450.00	450.00	450.00	450.00	450.00
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
Verifiche con costante	SI	SI	SI	SI	SI	SI
<b>Tensioni ammissibili</b>						
Tensione amm. cls [ N/mm2 ]	9.75	9.75	9.75	9.75	9.75	9.75
Tensione amm. acciaio [ N/mm2 ]	260.00	260.00	260.00	260.00	260.00	260.00
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
<b>Parete estesa debolmente armata</b>						
Fattore amplificazione taglio V	0.0	0.0	0.0	0.0	0.0	0.0
Hcrit. par. 7.4.4.5.1 [ cm ]	0.0	0.0	0.0	0.0	0.0	0.0
Hcrit. par. 7.4.6.1.4 [ cm ]	0.0	0.0	0.0	0.0	0.0	0.0
Diagramma involuppo taglio	NO	NO	NO	NO	NO	NO
Vincolo lati	nessun lato	nessun lato	nessun lato	nessun lato	nessun lato	nessun lato
Verifica come fascia	NO	NO	NO	NO	NO	NO
Diámetro di estremità	0	0	0	0	0	0
<b>Zona confinata</b>						
Minima tesa	1.00	1.00	1.00	1.00	1.00	1.00
Massima tesa	4.00	4.00	4.00	4.00	4.00	4.00
Distanza barre [ cm ]	2.00	2.00	2.00	2.00	2.00	2.00
Interferro	2	2	2	2	2	2
<b>Armatura inclinata</b>						
Area barre [ cm2 ]	0.0	0.0	0.0	0.0	0.0	0.0
Angolo orizzontale [ gradi ]	0.0	0.0	0.0	0.0	0.0	0.0
Distanza di base [ cm ]	0.0	0.0	0.0	0.0	0.0	0.0
<b>Resistenza al fuoco</b>						
3- intradosso	NO	NO	NO	NO	NO	NO
3+ estradosso	NO	NO	NO	NO	NO	NO
Tempo di esposizione R	15	15	15	15	15	15

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
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Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
<b>Generalità</b>						
Progetta a filo	NO	NO	NO	NO	NO	NO
Af inf: da q*L*L /	0.0	0.0	0.0	0.0	0.0	0.0
<b>Armatura</b>						
Minima tesa	0.31	0.20	0.13	2.000e-02	2.000e-02	2.000e-02
Minima compressa	0.31	0.20	0.13	2.000e-02	2.000e-02	2.000e-02
Massima tesa	0.78	4.00	4.00	4.00	4.00	4.00
Da sezione	SI	SI	SI	NO	NO	NO
Usa armatura teorica	NO	NO	NO	SI	SI	SI
<b>Stati limite ultimi</b>						
Tensione fy [ N/mm2 ]	450.00	450.00	450.00	437.53	435.00	413.60
Tensione fy staffe [ N/mm2 ]	450.00	450.00	450.00	437.53	435.00	413.60
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
Verifiche con N costante	SI	SI	SI	SI	SI	SI
Fattore di redistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
<b>Modello per il confinamento</b>						
Relazione tensio-deformativa	Mander	Mander	Mander	Mander	Mander	Mander
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03
Fattore lambda	1.00	1.00	1.00	1.00	1.00	1.00
epsilon max,s	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02
epsilon cu2	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03
epsilon c2	0.0	0.0	0.0	0.0	0.0	0.0
epsilon cy	0.0	0.0	0.0	0.0	0.0	0.0
<b>Tensioni ammissibili</b>						
Tensione amm. cls [ N/mm2 ]	9.75	9.75	9.75	9.75	9.75	9.75
Tensione amm. acciaio [ N/mm2 ]	260.00	260.00	260.00	260.00	260.00	260.00
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
<b>Staffe</b>						
Diametro staffe	0.0	0.0	0.0	0.0	0.0	0.0
Passo minimo [ cm ]	4.00	4.00	4.00	4.00	4.00	4.00
Passo massimo [ cm ]	30.00	30.00	30.00	30.00	30.00	30.00
Passo raffittito [ cm ]	15.00	15.00	15.00	15.00	15.00	15.00
Lunghezza zona raffittita [ cm ]	50.00	50.00	50.00	50.00	50.00	50.00
Ctg(Teta) Max	2.50	2.50	2.50	2.50	2.50	2.50
Percentuale sagomati	0.0	0.0	0.0	0.0	0.0	0.0
Luce di taglio per GR [ cm ]	1.00	1.00	1.00	1.00	1.00	1.00
Adotta scorrimento medio	NO	NO	NO	NO	NO	NO
Torsione non essenziale inclusa	SI	SI	SI	NO	NO	NO

Pilastr c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
<b>Generalità</b>						
Progetto armatura	Privilegia lati	Privilegia lati	Privilegia lati	Privilegia lati	Privilegia lati	Privilegia lati
Progetta a filo	NO	NO	NO	SI	SI	SI
Effetti del 2 ordine	SI	SI	SI	SI	SI	SI
Beta per 2-2	1.00	1.00	1.00	1.00	1.00	1.00
Beta per 3-3	1.00	1.00	1.00	1.00	1.00	1.00
<b>Armatura</b>						
Massima tesa	4.00	4.00	4.00	4.00	4.00	4.00
Minima tesa	1.00	1.00	0.30	2.000e-02	2.000e-02	2.000e-02
<b>Stati limite ultimi</b>						
Tensione fy [ N/mm2 ]	450.00	450.00	450.00	467.12	469.90	394.85
Tensione fy staffe [ N/mm2 ]	450.00	450.00	450.00	467.12	469.90	394.85
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
Verifiche con N costante	SI	SI	SI	SI	SI	SI
<b>Modello per il confinamento</b>						
Relazione tensio-deformativa	Mander	Mander	Mander	Mander	Mander	Mander
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03
Fattore lambda	1.00	1.00	1.00	1.00	1.00	1.00
epsilon max,s	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02
epsilon cu2	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03
epsilon c2	0.0	0.0	0.0	0.0	0.0	0.0
epsilon cy	0.0	0.0	0.0	0.0	0.0	0.0
<b>Tensioni ammissibili</b>						
Tensione amm. cls [ N/mm2 ]	9.75	9.75	9.75	9.75	9.75	9.75
Tensione amm. acciaio [ N/mm2 ]	260.00	260.00	260.00	260.00	260.00	260.00
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
<b>Staffe</b>						

<b>Pilastri c.a.</b>	<b>1/7/..</b>	<b>2/8/..</b>	<b>3/9/..</b>	<b>4/10/..</b>	<b>5/11/..</b>	<b>6/12/..</b>
Diametro staffe	0.0	0.0	0.0	0.0	0.0	0.0
Passo minimo [ cm ]	5.00	5.00	5.00	5.00	5.00	5.00
Passo massimo [ cm ]	25.00	25.00	25.00	25.00	25.00	25.00
Passo raffittito [ cm ]	15.00	15.00	15.00	15.00	15.00	15.00
Lunghezza zona raffittita [ cm ]	45.00	45.00	45.00	45.00	45.00	45.00
Ctg(Teta) Max	2.50	2.50	2.50	2.50	2.50	2.50
Luca di taglio per GR [ cm ]	1.00	1.00	1.00	1.00	1.00	1.00
Massimizza gerarchia	SI	SI	SI	SI	SI	SI

<b>Solai e pannelli</b>	<b>1/7/..</b>	<b>2/8/..</b>	<b>3/9/..</b>	<b>4/10/..</b>	<b>5/11/..</b>	<b>6/12/..</b>
<b>Generalità</b>						
Usa tensioni ammissibili	NO	NO	NO	NO	NO	NO
Af inf: da traliccio	SI	SI	SI	SI	SI	SI
Consenti armatura a taglio	NO	NO	NO	NO	NO	NO
Incrementa armatura longitudinale per taglio	SI	SI	SI	SI	SI	SI
Af inf: da q*L*L /	20.00	20.00	20.00	20.00	20.00	20.00
Incremento fascia piena [ cm ]	5.00	5.00	5.00	5.00	5.00	5.00
<b>Armatura</b>						
Minima tesa	0.15	0.15	0.15	0.15	0.15	0.15
Massima tesa	3.00	3.00	3.00	3.00	3.00	3.00
Minima compressa	0.0	0.0	0.0	0.0	0.0	0.0
Af/h [ cm ]	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02
<b>Stati limite ultimi</b>						
Tensione fy [ N/mm2 ]	450.00	450.00	450.00	450.00	450.00	450.00
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
Fattore di ridistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
<b>Tensioni ammissibili</b>						
Tensione amm. cls [ N/mm2 ]	8.50	8.50	8.50	8.50	8.50	8.50
Tensione amm. acciaio [ N/mm2 ]	260.00	260.00	260.00	260.00	260.00	260.00
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
<b>Verifica freccia</b>						
Infinita	250.00	250.00	250.00	250.00	250.00	250.00
Istantanea	500.00	500.00	500.00	500.00	500.00	500.00
Fattore viscosità	3.00	3.00	3.00	3.00	3.00	3.00
Usa J non fessurato	NO	NO	NO	NO	NO	NO
<b>Elementi non strutturali</b>						
Tamponatura antiespulsione	NO	NO	NO	NO	NO	NO
Tamponatura con armatura	NO	NO	NO	NO	NO	NO
Fattore di struttura/comportamento	2.00	2.00	2.00	2.00	2.00	2.00
Coefficiente gamma m	0.0	0.0	0.0	0.0	0.0	0.0
Periodo Ta	0.0	0.0	0.0	0.0	0.0	0.0
Altezza pannello	0.0	0.0	0.0	0.0	0.0	0.0

## MODELLAZIONE DELLE SEZIONI

### LEGENDA TABELLA DATI SEZIONI

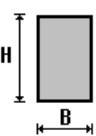
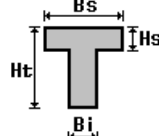
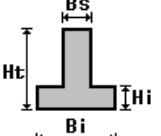
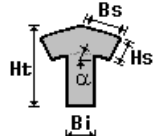
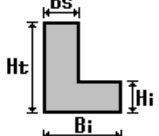
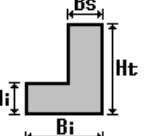
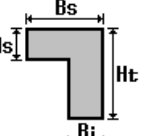
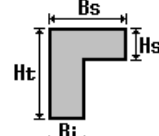

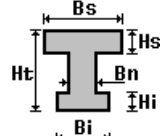
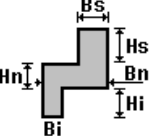
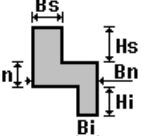
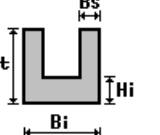
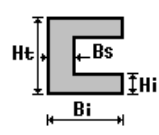
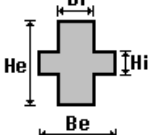
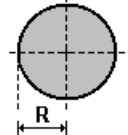
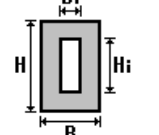
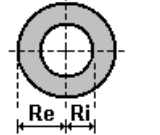
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

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

<b>Area</b>	area della sezione
<b>A V2</b>	area della sezione/fattore di taglio (per il taglio in direzione 2)
<b>A V3</b>	area della sezione/fattore di taglio (per il taglio in direzione 3)
<b>Jt</b>	fattore torsionale di rigidezza
<b>J2-2</b>	momento d'inerzia della sezione riferito all'asse 2
<b>J3-3</b>	momento d'inerzia della sezione riferito all'asse 3
<b>W2-2</b>	modulo di resistenza della sezione riferito all'asse 2
<b>W3-3</b>	modulo di resistenza della sezione riferito all'asse 3
<b>Wp2-2</b>	modulo di resistenza plastico della sezione riferito all'asse 2
<b>Wp3-3</b>	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	Pilastrini 40x45-Rettangolare: b=40 h=45	1800.00	1500.00	1500.00	4.519e+05	2.400e+05	3.038e+05	1.200e+04	1.350e+04	1.800e+04	2.025e+04
3	Pilastrini 35x45-Rettangolare: b=35 h=45	1575.00	1312.50	1312.50	3.386e+05	1.608e+05	2.658e+05	9187.50	1.181e+04	1.378e+04	1.772e+04
5	Pilastrini 30x40-Rettangolare: b=30 h=40	1200.00	1000.00	1000.00	1.946e+05	9.000e+04	1.600e+05	6000.00	8000.00	9000.00	1.200e+04
6	Trave a spessore Rettangolare: b=90 h=25	2250.00	1875.00	1875.00	3.867e+05	1.519e+06	1.172e+05	3.375e+04	9375.00	5.062e+04	1.406e+04
7	Trave 40x45-Rettangolare: b=40 h=45	1800.00	1500.00	1500.00	4.519e+05	2.400e+05	3.038e+05	1.200e+04	1.350e+04	1.800e+04	2.025e+04
8	Trave 35x55-Rettangolare: b=35 h=55	1925.00	1604.17	1604.17	4.709e+05	1.965e+05	4.853e+05	1.123e+04	1.765e+04	1.684e+04	2.647e+04
9	Trave 30 x 55-Rettangolare: b=30 h=55	1650.00	1375.00	1375.00	3.249e+05	1.238e+05	4.159e+05	8250.00	1.512e+04	1.238e+04	2.269e+04
10	Cordolo perimetrale 35x30-Rettangolare: b=35 h=25	875.00	729.17	729.17	1.022e+05	8.932e+04	4.557e+04	5104.17	3645.83	7656.25	5468.75
11	Trave 30 x 60-Rettangolare: b=30 h=60	1800.00	1500.00	1500.00	3.699e+05	1.350e+05	5.400e+05	9000.00	1.800e+04	1.350e+04	2.700e+04
13	T ribassata: bi=12.00 ht=24.00 bs=50.00 hs=4.00	440.00	0.0	0.0	1.048e+04	4.455e+04	2.398e+04	1781.87	1551.37	2138.24	1861.65

## MODELLAZIONE STRUTTURA: NODI

### LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

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

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

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	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:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	valore della coordinata Z
<b>Note</b>	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).
<b>Note</b>	(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
<b>Rig. TX</b>	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

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

### TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	297.5	-595.0	160.0	3	2197.5	277.8	160.0	5	-168.6	-913.0	160.0
6	297.5	-763.1	160.0	7	297.5	-913.0	905.0	8	297.5	0.0	905.0
10	945.5	0.0	905.0	12	0.0	872.5	160.0	13	1565.5	0.0	905.0
15	297.5	872.5	160.0	16	0.0	0.0	905.0	18	297.5	-595.0	530.0
19	2197.5	0.0	905.0	20	945.5	872.5	160.0	22	297.5	277.8	530.0
23	297.5	872.5	530.0	24	-168.6	-300.0	530.0	26	0.0	872.5	530.0
27	297.5	-300.0	905.0	28	945.5	872.5	530.0	30	-168.6	-913.0	905.0
31	2197.5	872.5	530.0	32	1565.5	872.5	530.0	34	1565.5	872.5	160.0
35	2197.5	872.5	160.0	36	-1.00e-03	-300.0	530.0	37	297.5	-300.0	530.0
38	-168.6	-300.0	905.0	41	0.0	0.0	160.0	43	297.5	0.0	160.0
44	945.5	0.0	160.0	45	945.5	277.8	530.0	46	1565.5	0.0	160.0
47	2535.0	0.0	905.0	49	2535.0	277.8	160.0	50	0.0	277.8	905.0
51	297.5	277.8	905.0	52	945.5	277.8	905.0	53	297.5	-913.0	160.0
54	1565.5	277.8	905.0	55	-168.6	-300.0	160.0	56	2197.5	277.8	905.0
59	0.0	0.0	530.0	60	2535.0	872.5	530.0	61	-1.00e-03	-300.0	160.0
62	2535.0	277.8	905.0	63	0.0	872.5	905.0	64	297.5	-300.0	160.0
65	297.5	872.5	905.0	66	945.5	872.5	905.0	67	1565.5	872.5	905.0
68	945.5	277.8	160.0	69	297.5	0.0	530.0	70	2197.5	872.5	905.0
71	-168.6	-763.1	160.0	74	945.5	0.0	530.0	75	2197.5	277.8	530.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
76	1565.5	277.8	160.0	77	2535.0	277.8	530.0	78	2197.5	0.0	160.0
79	1565.5	0.0	530.0	80	2535.0	0.0	160.0	81	2535.0	872.5	160.0
82	-168.6	-913.0	530.0	84	0.0	277.8	530.0	85	-168.6	-595.0	905.0
87	0.0	277.8	160.0	88	297.5	-595.0	905.0	90	-1.00e-03	-300.0	905.0
91	1565.5	277.8	530.0	92	2197.5	0.0	530.0	94	297.5	-913.0	530.0
96	297.5	277.8	160.0	98	2535.0	872.5	905.0	99	-168.6	-595.0	530.0
100	2535.0	0.0	530.0	101	-168.6	-595.0	160.0	103	-168.6	-913.0	5.0
104	297.5	-913.0	5.0	105	297.5	-595.0	5.0	106	297.5	-300.0	5.0
107	297.5	0.0	5.0	108	945.5	0.0	5.0	109	1565.5	0.0	5.0
110	2197.5	0.0	5.0	111	2535.0	0.0	5.0	112	2535.0	872.5	5.0
113	2197.5	872.5	5.0	114	1565.5	872.5	5.0	115	945.5	872.5	5.0
116	297.5	872.5	5.0	117	0.0	872.5	5.0	118	297.5	-763.1	5.0
119	2535.0	277.8	5.0	120	-168.6	-913.0	-95.0	121	1818.3	872.5	-95.0
122	1881.5	872.5	-95.0	123	1944.7	872.5	-95.0	124	297.5	-913.0	-95.0
125	297.5	-841.1	-95.0	127	297.5	-841.1	5.0	128	297.5	-763.1	-95.0
129	297.5	-684.8	-95.0	131	297.5	-684.8	5.0	132	297.5	-595.0	-95.0
133	297.5	-445.8	-95.0	135	297.5	-445.8	5.0	136	297.5	-300.0	-95.0
137	297.5	-146.1	-95.0	139	297.5	-146.1	5.0	140	297.5	0.0	-95.0
141	617.5	0.0	-95.0	142	617.5	0.0	5.0	144	945.5	0.0	-95.0
145	508.2	0.0	-145.0	147	562.9	0.0	-145.0	148	1565.5	0.0	-95.0
150	508.2	0.0	-95.0	151	562.9	0.0	-95.0	152	2197.5	0.0	-95.0
153	2363.8	0.0	-95.0	154	2363.8	0.0	5.0	156	2535.0	0.0	-95.0
157	2535.0	133.4	-95.0	159	2535.0	133.4	5.0	160	2535.0	277.8	-95.0
161	2535.0	0.0	82.5	162	2535.0	133.4	82.5	163	2535.0	133.4	160.0
164	2535.0	277.8	82.5	165	2535.0	571.1	-95.0	167	2535.0	571.1	5.0
168	2535.0	872.5	-95.0	169	2535.0	571.1	82.5	170	2535.0	571.1	160.0
171	2535.0	872.5	82.5	172	297.5	-913.0	82.5	173	297.5	-841.1	82.5
174	297.5	-841.1	160.0	175	297.5	-763.1	82.5	176	297.5	-684.8	82.5
177	297.5	-684.8	160.0	178	297.5	-595.0	82.5	179	297.5	-445.8	82.5
180	297.5	-445.8	160.0	181	297.5	-300.0	82.5	182	297.5	-146.1	82.5
183	297.5	-146.1	160.0	184	297.5	0.0	82.5	185	-168.6	-913.0	82.5
186	2007.9	872.5	-95.0	187	60.5	-913.0	160.0	188	2197.5	872.5	-95.0
189	2363.8	872.5	-95.0	190	2363.8	872.5	5.0	192	1565.5	872.5	-95.0
193	1628.7	0.0	-145.0	195	1691.9	0.0	-145.0	196	2197.5	872.5	82.5
197	2363.8	872.5	82.5	198	2363.8	872.5	160.0	199	945.5	872.5	-95.0
201	1755.1	0.0	-145.0	203	297.5	872.5	-95.0	204	1818.3	0.0	-145.0
206	1881.5	0.0	-145.0	207	0.0	872.5	-95.0	208	148.8	872.5	-95.0
209	148.8	872.5	5.0	211	-168.6	-913.0	-45.0	212	2071.1	872.5	-95.0
213	2134.3	872.5	-95.0	214	1628.7	872.5	-45.0	215	1691.9	872.5	-45.0
216	297.5	-913.0	-145.0	217	297.5	-880.1	-145.0	219	297.5	-880.1	-95.0
220	297.5	-841.1	-145.0	221	297.5	-763.1	-145.0	222	297.5	-724.0	-145.0
224	297.5	-724.0	-95.0	225	297.5	-684.8	-145.0	226	297.5	-595.0	-145.0
227	297.5	-526.2	-145.0	229	297.5	-526.2	-95.0	230	297.5	-445.8	-145.0
231	297.5	-300.0	-145.0	232	297.5	-215.6	-145.0	234	297.5	-215.6	-95.0
235	297.5	-146.1	-145.0	236	297.5	0.0	-45.0	237	453.6	0.0	-45.0
238	453.6	0.0	5.0	239	453.6	0.0	-95.0	240	617.5	0.0	-45.0
241	945.5	0.0	-45.0	242	508.2	0.0	-45.0	243	562.9	0.0	-45.0
244	508.2	0.0	5.0	245	562.9	0.0	5.0	246	1565.5	0.0	-45.0
247	672.2	0.0	-145.0	249	726.8	0.0	-145.0	251	2197.5	0.0	-45.0
252	2280.6	0.0	-45.0	253	2280.6	0.0	5.0	254	2280.6	0.0	-95.0
255	2363.8	0.0	-45.0	256	2535.0	0.0	-145.0	257	2535.0	63.1	-145.0
259	2535.0	63.1	-95.0	260	2535.0	133.4	-145.0	261	2535.0	0.0	43.8
262	2535.0	63.1	43.8	263	2535.0	63.1	5.0	264	2535.0	63.1	82.5
265	2535.0	133.4	43.8	266	2535.0	277.8	-145.0	267	2535.0	422.5	-145.0
269	2535.0	422.5	-95.0	270	2535.0	571.1	-145.0	271	2535.0	277.8	43.8
272	2535.0	422.5	43.8	273	2535.0	422.5	5.0	274	2535.0	422.5	82.5
275	2535.0	571.1	43.8	276	297.5	-913.0	43.8	277	297.5	-880.1	43.8
278	297.5	-880.1	5.0	279	297.5	-880.1	82.5	280	297.5	-841.1	43.8
281	297.5	-763.1	43.8	282	297.5	-724.0	43.8	283	297.5	-724.0	5.0
284	297.5	-724.0	82.5	285	297.5	-684.8	43.8	286	297.5	-595.0	43.8
287	297.5	-526.2	43.8	288	297.5	-526.2	5.0	289	297.5	-526.2	82.5
290	297.5	-445.8	43.8	291	297.5	-300.0	43.8	292	297.5	-215.6	43.8
293	297.5	-215.6	5.0	294	297.5	-215.6	82.5	295	297.5	-146.1	43.8
296	-168.6	-913.0	121.2	297	1755.1	872.5	-45.0	298	-54.0	-913.0	160.0
299	1818.3	872.5	-45.0	300	1881.5	872.5	-45.0	301	2197.5	872.5	-45.0
302	2280.6	872.5	-45.0	303	2280.6	872.5	5.0	304	2280.6	872.5	-95.0
305	2363.8	872.5	-45.0	306	1565.5	872.5	-45.0	308	1944.7	0.0	-145.0
310	2007.9	0.0	-145.0	311	2197.5	872.5	121.2	312	2280.6	872.5	121.2
313	2280.6	872.5	160.0	314	2280.6	872.5	82.5	315	2363.8	872.5	121.2
316	945.5	872.5	-45.0	318	2071.1	0.0	-145.0	320	2134.3	0.0	-145.0
321	297.5	872.5	-45.0	323	1628.7	0.0	-95.0	324	1691.9	0.0	-95.0
325	1755.1	0.0	-95.0	326	0.0	872.5	-45.0	327	74.4	872.5	-45.0
328	74.4	872.5	5.0	329	74.4	872.5	-95.0	330	148.8	872.5	-45.0
331	-168.6	-913.0	-145.0	332	1944.7	872.5	-45.0	333	2007.9	872.5	-45.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
334	2071.1	872.5	-45.0	335	2134.3	872.5	-45.0	336	1628.7	872.5	5.0
337	1691.9	872.5	5.0	338	297.5	-913.0	-45.0	339	1755.1	872.5	5.0
340	1818.3	872.5	5.0	341	297.5	-880.1	-45.0	342	297.5	-841.1	-45.0
343	297.5	-802.1	-145.0	345	297.5	-802.1	-95.0	346	297.5	-802.1	-45.0
347	297.5	-802.1	5.0	348	297.5	-763.1	-45.0	349	297.5	-724.0	-45.0
350	297.5	-684.8	-45.0	351	297.5	-645.7	-145.0	353	297.5	-645.7	-95.0
354	297.5	-645.7	-45.0	355	297.5	-645.7	5.0	356	297.5	-595.0	-45.0
357	297.5	-526.2	-45.0	358	297.5	-445.8	-45.0	359	297.5	-365.5	-145.0
361	297.5	-365.5	-95.0	362	297.5	-365.5	-45.0	363	297.5	-365.5	5.0
364	297.5	-300.0	-45.0	365	297.5	-215.6	-45.0	366	297.5	-146.1	-45.0
367	297.5	-76.6	-145.0	369	297.5	-76.6	-95.0	370	297.5	0.0	-145.0
371	297.5	-76.6	-45.0	372	297.5	-76.6	5.0	373	453.6	0.0	-145.0
375	617.5	0.0	-145.0	376	781.5	0.0	-45.0	377	781.5	0.0	5.0
378	781.5	0.0	-95.0	379	781.5	0.0	-145.0	381	945.5	0.0	-145.0
382	672.2	0.0	-95.0	383	726.8	0.0	-95.0	384	672.2	0.0	-45.0
385	726.8	0.0	-45.0	386	672.2	0.0	5.0	387	726.8	0.0	5.0
388	836.2	0.0	-145.0	390	1565.5	0.0	-145.0	391	890.8	0.0	-145.0
393	836.2	0.0	-95.0	394	890.8	0.0	-95.0	395	836.2	0.0	-45.0
396	890.8	0.0	-45.0	397	836.2	0.0	5.0	398	890.8	0.0	5.0
399	2197.5	0.0	-145.0	400	2280.6	0.0	-145.0	402	2363.8	0.0	-145.0
403	2446.9	0.0	-45.0	404	2446.9	0.0	5.0	405	2446.9	0.0	-95.0
406	2535.0	0.0	-45.0	407	2446.9	0.0	-145.0	409	2535.0	63.1	-45.0
410	2535.0	133.4	-45.0	411	2535.0	203.6	-145.0	413	2535.0	203.6	-95.0
414	2535.0	203.6	-45.0	415	2535.0	203.6	5.0	416	2535.0	277.8	-45.0
417	2535.0	0.0	121.2	418	2535.0	63.1	121.2	419	2535.0	63.1	160.0
420	2535.0	133.4	121.2	421	2535.0	203.6	43.8	422	2535.0	203.6	82.5
423	2535.0	203.6	121.2	424	2535.0	203.6	160.0	425	2535.0	277.8	121.2
426	2535.0	422.5	-45.0	427	2535.0	571.1	-45.0	428	2535.0	719.8	-145.0
430	2535.0	719.8	-95.0	431	2535.0	872.5	-145.0	432	2535.0	719.8	-45.0
433	2535.0	719.8	5.0	434	2535.0	872.5	-45.0	435	2535.0	422.5	121.2
436	2535.0	422.5	160.0	437	2535.0	571.1	121.2	438	2535.0	719.8	43.8
439	2535.0	719.8	82.5	440	2535.0	872.5	43.8	441	2535.0	719.8	121.2
442	2535.0	719.8	160.0	443	2535.0	872.5	121.2	444	297.5	-913.0	121.2
445	297.5	-880.1	121.2	446	297.5	-880.1	160.0	447	297.5	-841.1	121.2
448	297.5	-802.1	43.8	449	297.5	-802.1	82.5	450	297.5	-802.1	121.2
451	297.5	-802.1	160.0	452	297.5	-763.1	121.2	453	297.5	-724.0	121.2
454	297.5	-724.0	160.0	455	297.5	-684.8	121.2	456	297.5	-645.7	43.8
457	297.5	-645.7	82.5	458	297.5	-645.7	121.2	459	297.5	-645.7	160.0
460	297.5	-595.0	121.2	461	297.5	-526.2	121.2	462	297.5	-526.2	160.0
463	297.5	-445.8	121.2	464	297.5	-365.5	43.8	465	297.5	-365.5	82.5
466	297.5	-365.5	121.2	467	297.5	-365.5	160.0	468	297.5	-300.0	121.2
469	297.5	-215.6	121.2	470	297.5	-215.6	160.0	471	297.5	-146.1	121.2
472	297.5	-76.6	43.8	473	297.5	-76.6	82.5	474	297.5	0.0	43.8
475	297.5	-76.6	121.2	476	297.5	-76.6	160.0	477	297.5	0.0	121.2
478	-168.6	-913.0	43.8	479	1881.5	872.5	5.0	480	1944.7	872.5	5.0
481	2007.9	872.5	5.0	482	2535.0	769.3	121.2	483	2071.1	872.5	5.0
484	2134.3	872.5	5.0	485	2197.5	872.5	-145.0	486	2280.6	872.5	-145.0
488	2363.8	872.5	-145.0	489	2446.9	872.5	-45.0	490	2446.9	872.5	5.0
491	2446.9	872.5	-95.0	492	2446.9	872.5	-145.0	494	1565.5	872.5	-145.0
495	1818.3	0.0	-95.0	496	1881.5	0.0	-95.0	497	1944.7	0.0	-95.0
498	2007.9	0.0	-95.0	499	2071.1	0.0	-95.0	500	2134.3	0.0	-95.0
501	1628.7	0.0	-45.0	502	1691.9	0.0	-45.0	503	2197.5	872.5	43.8
504	2280.6	872.5	43.8	505	2363.8	872.5	43.8	506	2446.9	872.5	121.2
507	2446.9	872.5	160.0	508	2446.9	872.5	82.5	509	2446.9	872.5	43.8
510	945.5	872.5	-145.0	511	1755.1	0.0	-45.0	512	1818.3	0.0	-45.0
513	1881.5	0.0	-45.0	514	1944.7	0.0	-45.0	515	2007.9	0.0	-45.0
516	2071.1	0.0	-45.0	517	2134.3	0.0	-45.0	518	1628.7	0.0	5.0
519	297.5	872.5	-145.0	520	1691.9	0.0	5.0	521	1755.1	0.0	5.0
522	1818.3	0.0	5.0	523	1881.5	0.0	5.0	524	1944.7	0.0	5.0
525	2007.9	0.0	5.0	526	2071.1	0.0	5.0	527	2134.3	0.0	5.0
528	0.0	872.5	-145.0	529	74.4	872.5	-145.0	531	148.8	872.5	-145.0
532	223.2	872.5	-45.0	533	223.2	872.5	5.0	534	223.2	872.5	-95.0
535	223.2	872.5	-145.0	537	2446.9	0.0	43.8	538	2446.9	0.0	82.5
539	2446.9	0.0	121.2	540	2446.9	0.0	160.0	541	2363.8	0.0	43.8
542	2363.8	0.0	82.5	543	2363.8	0.0	121.2	544	2363.8	0.0	160.0
545	2280.6	0.0	43.8	546	2280.6	0.0	82.5	547	2280.6	0.0	121.2
548	2280.6	0.0	160.0	549	2197.5	0.0	43.8	550	2197.5	0.0	82.5
551	2197.5	0.0	121.2	552	344.3	0.0	-145.0	554	398.9	0.0	-145.0
556	344.3	0.0	-95.0	557	398.9	0.0	-95.0	558	344.3	0.0	-45.0
559	398.9	0.0	-45.0	560	344.3	0.0	5.0	561	398.9	0.0	5.0
562	1007.5	0.0	-145.0	564	1069.5	0.0	-145.0	566	1131.5	0.0	-145.0
568	1193.5	0.0	-145.0	570	1255.5	0.0	-145.0	572	1317.5	0.0	-145.0
574	1379.5	0.0	-145.0	576	1441.5	0.0	-145.0	578	1503.5	0.0	-145.0
580	1007.5	0.0	-95.0	581	1069.5	0.0	-95.0	582	1131.5	0.0	-95.0



Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
583	1193.5	0.0	-95.0	584	1255.5	0.0	-95.0	585	1317.5	0.0	-95.0
586	1379.5	0.0	-95.0	587	1441.5	0.0	-95.0	588	1503.5	0.0	-95.0
589	1007.5	0.0	-45.0	590	1069.5	0.0	-45.0	591	1131.5	0.0	-45.0
592	1193.5	0.0	-45.0	593	1255.5	0.0	-45.0	594	1317.5	0.0	-45.0
595	1379.5	0.0	-45.0	596	1441.5	0.0	-45.0	597	1503.5	0.0	-45.0
598	1007.5	0.0	5.0	599	1069.5	0.0	5.0	600	1131.5	0.0	5.0
601	1193.5	0.0	5.0	602	1255.5	0.0	5.0	603	1317.5	0.0	5.0
604	1379.5	0.0	5.0	605	1441.5	0.0	5.0	606	1503.5	0.0	5.0
607	362.3	872.5	-145.0	609	427.1	872.5	-145.0	611	491.9	872.5	-145.0
613	556.7	872.5	-145.0	615	621.5	872.5	-145.0	617	686.3	872.5	-145.0
619	751.1	872.5	-145.0	621	815.9	872.5	-145.0	623	880.7	872.5	-145.0
625	362.3	872.5	-95.0	626	427.1	872.5	-95.0	627	491.9	872.5	-95.0
628	556.7	872.5	-95.0	629	621.5	872.5	-95.0	630	686.3	872.5	-95.0
631	751.1	872.5	-95.0	632	815.9	872.5	-95.0	633	880.7	872.5	-95.0
634	362.3	872.5	-45.0	635	427.1	872.5	-45.0	636	491.9	872.5	-45.0
637	556.7	872.5	-45.0	638	621.5	872.5	-45.0	639	686.3	872.5	-45.0
640	751.1	872.5	-45.0	641	815.9	872.5	-45.0	642	880.7	872.5	-45.0
643	362.3	872.5	5.0	644	427.1	872.5	5.0	645	491.9	872.5	5.0
646	556.7	872.5	5.0	647	621.5	872.5	5.0	648	686.3	872.5	5.0
649	751.1	872.5	5.0	650	815.9	872.5	5.0	651	880.7	872.5	5.0
652	1007.5	872.5	-145.0	654	1069.5	872.5	-145.0	656	1131.5	872.5	-145.0
658	1193.5	872.5	-145.0	660	1255.5	872.5	-145.0	662	1317.5	872.5	-145.0
664	1379.5	872.5	-145.0	666	1441.5	872.5	-145.0	668	1503.5	872.5	-145.0
670	1007.5	872.5	-95.0	671	1069.5	872.5	-95.0	672	1131.5	872.5	-95.0
673	1193.5	872.5	-95.0	674	1255.5	872.5	-95.0	675	1317.5	872.5	-95.0
676	1379.5	872.5	-95.0	677	1441.5	872.5	-95.0	678	1503.5	872.5	-95.0
679	1007.5	872.5	-45.0	680	1069.5	872.5	-45.0	681	1131.5	872.5	-45.0
682	1193.5	872.5	-45.0	683	1255.5	872.5	-45.0	684	1317.5	872.5	-45.0
685	1379.5	872.5	-45.0	686	1441.5	872.5	-45.0	687	1503.5	872.5	-45.0
688	1007.5	872.5	5.0	689	1069.5	872.5	5.0	690	1131.5	872.5	5.0
691	1193.5	872.5	5.0	692	1255.5	872.5	5.0	693	1317.5	872.5	5.0
694	1379.5	872.5	5.0	695	1441.5	872.5	5.0	696	1503.5	872.5	5.0
697	1628.7	872.5	-145.0	699	1691.9	872.5	-145.0	701	1755.1	872.5	-145.0
703	1818.3	872.5	-145.0	705	1881.5	872.5	-145.0	707	1944.7	872.5	-145.0
709	2007.9	872.5	-145.0	711	2071.1	872.5	-145.0	713	2134.3	872.5	-145.0
715	1628.7	872.5	-95.0	716	1691.9	872.5	-95.0	717	1755.1	872.5	-95.0
719	-54.0	-913.0	5.0	720	-54.0	-913.0	-95.0	721	-54.0	-913.0	82.5
722	-54.0	-913.0	-45.0	723	-54.0	-913.0	121.2	724	-54.0	-913.0	-145.0
725	-54.0	-913.0	43.8	726	-111.3	-913.0	-145.0	728	-111.3	-913.0	-95.0
729	-111.3	-913.0	-45.0	730	-111.3	-913.0	5.0	731	-111.3	-913.0	43.8
732	-111.3	-913.0	82.5	733	-111.3	-913.0	121.2	734	-111.3	-913.0	160.0
736	60.5	-913.0	5.0	737	60.5	-913.0	-95.0	738	60.5	-913.0	82.5
739	60.5	-913.0	-45.0	740	60.5	-913.0	121.2	741	60.5	-913.0	-145.0
742	60.5	-913.0	43.8	744	2535.0	818.9	82.5	745	175.1	-913.0	-95.0
746	2535.0	769.3	160.0	747	175.1	-913.0	-45.0	748	2535.0	818.9	121.2
749	175.1	-913.0	-145.0	750	2535.0	818.9	160.0	751	3.3	-913.0	-145.0
753	3.3	-913.0	-95.0	754	3.3	-913.0	-45.0	755	3.3	-913.0	5.0
756	3.3	-913.0	43.8	757	3.3	-913.0	82.5	758	3.3	-913.0	121.2
759	3.3	-913.0	160.0	760	117.8	-913.0	-145.0	762	117.8	-913.0	-95.0
763	117.8	-913.0	-45.0	764	117.8	-913.0	5.0	765	117.8	-913.0	43.8
766	117.8	-913.0	82.5	767	117.8	-913.0	121.2	768	117.8	-913.0	160.0
769	232.4	-913.0	-145.0	771	232.4	-913.0	-95.0	772	232.4	-913.0	-45.0
773	232.4	-913.0	5.0	774	232.4	-913.0	43.8	775	232.4	-913.0	82.5
776	232.4	-913.0	121.2	777	232.4	-913.0	160.0	778	2535.0	323.4	-145.0
780	2535.0	373.0	-145.0	782	2535.0	323.4	-95.0	783	2535.0	373.0	-95.0
784	2535.0	323.4	-45.0	785	2535.0	373.0	-45.0	786	2535.0	323.4	5.0
787	2535.0	373.0	5.0	788	2535.0	323.4	43.8	789	2535.0	373.0	43.8
790	2535.0	323.4	82.5	791	2535.0	373.0	82.5	792	2535.0	323.4	121.2
793	2535.0	373.0	121.2	794	2535.0	323.4	160.0	795	2535.0	373.0	160.0
796	2535.0	472.0	-145.0	798	2535.0	521.6	-145.0	800	2535.0	472.0	-95.0
801	2535.0	521.6	-95.0	802	2535.0	472.0	-45.0	803	2535.0	521.6	-45.0
804	2535.0	472.0	5.0	805	2535.0	521.6	5.0	806	2535.0	472.0	43.8
807	2535.0	521.6	43.8	808	2535.0	472.0	82.5	809	2535.0	521.6	82.5
810	2535.0	472.0	121.2	811	2535.0	521.6	121.2	812	2535.0	472.0	160.0
813	2535.0	521.6	160.0	814	2535.0	620.7	-145.0	816	2535.0	670.2	-145.0
818	2535.0	620.7	-95.0	819	2535.0	670.2	-95.0	820	2535.0	620.7	-45.0
821	2535.0	670.2	-45.0	822	2535.0	620.7	5.0	823	2535.0	670.2	5.0
824	2535.0	620.7	43.8	825	2535.0	670.2	43.8	826	2535.0	620.7	82.5
827	2535.0	670.2	82.5	828	2535.0	620.7	121.2	829	2535.0	670.2	121.2
830	2535.0	620.7	160.0	831	2535.0	670.2	160.0	832	2535.0	769.3	-145.0
834	2535.0	818.9	-145.0	836	2535.0	769.3	-95.0	837	2535.0	818.9	-95.0
838	2535.0	769.3	-45.0	839	2535.0	818.9	-45.0	840	2535.0	769.3	5.0
841	2535.0	818.9	5.0	842	2535.0	769.3	43.8	843	2535.0	818.9	43.8
844	2535.0	769.3	82.5	845	117.8	-913.0	530.0				

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
2	0.0	277.8	-180.0	v=111111						
4	1565.5	0.0	-180.0	v=111111						
9	-168.6	-300.0	-180.0	v=111111						
11	1565.5	872.5	-180.0	v=111111						
14	2535.0	277.8	-180.0	v=111111						
17	0.0	872.5	-180.0	v=111111						
21	0.0	0.0	-180.0	v=111111						
25	297.5	872.5	-180.0	v=111111						
29	297.5	277.8	-180.0	v=111111						
33	945.5	0.0	-180.0	v=111111						
39	945.5	277.8	-180.0	v=111111						
40	1565.5	277.8	-180.0	v=111111						
42	2197.5	872.5	-180.0	v=111111						
48	297.5	-913.0	-180.0	v=111111						
57	2535.0	0.0	-180.0	v=111111						
58	2535.0	872.5	-180.0	v=111111						
72	-168.6	-913.0	-180.0	v=111111						
73	2197.5	277.8	-180.0	v=111111						
83	297.5	-300.0	-180.0	v=111111						
86	-168.6	-595.0	-180.0	v=111111						
89	2197.5	0.0	-180.0	v=111111						
93	945.5	872.5	-180.0	v=111111						
95	297.5	0.0	-180.0	v=111111						
97	297.5	-595.0	-180.0	v=111111						
102	297.5	-763.1	-180.0	v=111111						
126	297.5	-841.1	-180.0	v=111111						
130	297.5	-684.8	-180.0	v=111111						
134	297.5	-445.8	-180.0	v=111111						
138	297.5	-146.1	-180.0	v=111111						
143	617.5	0.0	-180.0	v=111111						
146	508.2	0.0	-180.0	v=111111						
149	562.9	0.0	-180.0	v=111111						
155	2363.8	0.0	-180.0	v=111111						
158	2535.0	133.4	-180.0	v=111111						
166	2535.0	571.1	-180.0	v=111111						
191	2363.8	872.5	-180.0	v=111111						
194	1628.7	0.0	-180.0	v=111111						
200	1691.9	0.0	-180.0	v=111111						
202	1755.1	0.0	-180.0	v=111111						
205	1818.3	0.0	-180.0	v=111111						
210	148.8	872.5	-180.0	v=111111						
218	297.5	-880.1	-180.0	v=111111						
223	297.5	-724.0	-180.0	v=111111						
228	297.5	-526.2	-180.0	v=111111						
233	297.5	-215.6	-180.0	v=111111						
248	672.2	0.0	-180.0	v=111111						
250	726.8	0.0	-180.0	v=111111						
258	2535.0	63.1	-180.0	v=111111						
268	2535.0	422.5	-180.0	v=111111						
307	1881.5	0.0	-180.0	v=111111						
309	1944.7	0.0	-180.0	v=111111						
317	2007.9	0.0	-180.0	v=111111						
319	2071.1	0.0	-180.0	v=111111						
322	2134.3	0.0	-180.0	v=111111						
344	297.5	-802.1	-180.0	v=111111						
352	297.5	-645.7	-180.0	v=111111						
360	297.5	-365.5	-180.0	v=111111						
368	297.5	-76.6	-180.0	v=111111						
374	453.6	0.0	-180.0	v=111111						
380	781.5	0.0	-180.0	v=111111						
389	836.2	0.0	-180.0	v=111111						
392	890.8	0.0	-180.0	v=111111						
401	2280.6	0.0	-180.0	v=111111						
408	2446.9	0.0	-180.0	v=111111						
412	2535.0	203.6	-180.0	v=111111						
429	2535.0	719.8	-180.0	v=111111						
487	2280.6	872.5	-180.0	v=111111						
493	2446.9	872.5	-180.0	v=111111						
530	74.4	872.5	-180.0	v=111111						
536	223.2	872.5	-180.0	v=111111						

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
553	344.3	0.0	-180.0	v=111111						
555	398.9	0.0	-180.0	v=111111						
563	1007.5	0.0	-180.0	v=111111						
565	1069.5	0.0	-180.0	v=111111						
567	1131.5	0.0	-180.0	v=111111						
569	1193.5	0.0	-180.0	v=111111						
571	1255.5	0.0	-180.0	v=111111						
573	1317.5	0.0	-180.0	v=111111						
575	1379.5	0.0	-180.0	v=111111						
577	1441.5	0.0	-180.0	v=111111						
579	1503.5	0.0	-180.0	v=111111						
608	362.3	872.5	-180.0	v=111111						
610	427.1	872.5	-180.0	v=111111						
612	491.9	872.5	-180.0	v=111111						
614	556.7	872.5	-180.0	v=111111						
616	621.5	872.5	-180.0	v=111111						
618	686.3	872.5	-180.0	v=111111						
620	751.1	872.5	-180.0	v=111111						
622	815.9	872.5	-180.0	v=111111						
624	880.7	872.5	-180.0	v=111111						
653	1007.5	872.5	-180.0	v=111111						
655	1069.5	872.5	-180.0	v=111111						
657	1131.5	872.5	-180.0	v=111111						
659	1193.5	872.5	-180.0	v=111111						
661	1255.5	872.5	-180.0	v=111111						
663	1317.5	872.5	-180.0	v=111111						
665	1379.5	872.5	-180.0	v=111111						
667	1441.5	872.5	-180.0	v=111111						
669	1503.5	872.5	-180.0	v=111111						
698	1628.7	872.5	-180.0	v=111111						
700	1691.9	872.5	-180.0	v=111111						
702	1755.1	872.5	-180.0	v=111111						
704	1818.3	872.5	-180.0	v=111111						
706	1881.5	872.5	-180.0	v=111111						
708	1944.7	872.5	-180.0	v=111111						
710	2007.9	872.5	-180.0	v=111111						
712	2071.1	872.5	-180.0	v=111111						
714	2134.3	872.5	-180.0	v=111111						
718	-54.0	-913.0	-180.0	v=111111						
727	-111.3	-913.0	-180.0	v=111111						
735	60.5	-913.0	-180.0	v=111111						
743	175.1	-913.0	-180.0	v=111111						
752	3.3	-913.0	-180.0	v=111111						
761	117.8	-913.0	-180.0	v=111111						
770	232.4	-913.0	-180.0	v=111111						
779	2535.0	323.4	-180.0	v=111111						
781	2535.0	373.0	-180.0	v=111111						
797	2535.0	472.0	-180.0	v=111111						
799	2535.0	521.6	-180.0	v=111111						
815	2535.0	620.7	-180.0	v=111111						
817	2535.0	670.2	-180.0	v=111111						
833	2535.0	769.3	-180.0	v=111111						
835	2535.0	818.9	-180.0	v=111111						

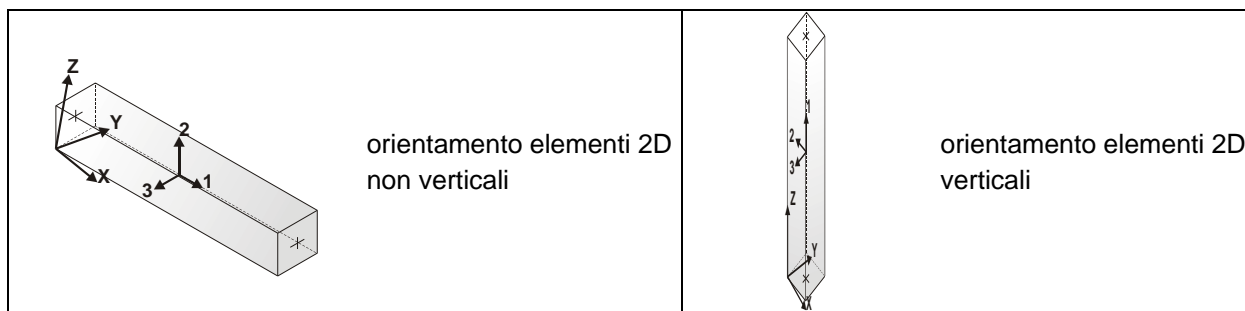
## MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

### TABELLA DATI TRAVI

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

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

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



In particolare per ogni elemento viene indicato in tabella:

<b>Elem.</b>	numero dell'elemento
<b>Note</b>	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
<b>Nodo I (J)</b>	numero del nodo iniziale (finale)
<b>Mat.</b>	codice del materiale assegnato all'elemento
<b>Sez.</b>	codice della sezione assegnata all'elemento
<b>Rotaz.</b>	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
<b>Svincolo I (J)</b>	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)
<b>Wink V</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
<b>Wink O</b>	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	Pilas.	99	85	164	5	6	90.00				
2	Trave	26	23	163	9	5					
3	Trave	84	22	163	9	5					
4	Trave	18	37	163	9	5					
5	Pilas.	49	77	162	5	5	90.00				
6	Pilas.	41	59	162	5	5	90.00				
7	Trave	3	49	160	8	4					
8	Trave	44	46	160	7	4					
9	Trave	87	12	160	10	4					
10	Trave	41	87	160	10	4					
11	Trave	55	61	160	6	4					
12	Pilas.	81	60	162	5	5					
13	Trave	63	65	165	11	6					
14	Trave	13	19	165	11	6					
15	Trave	30	85	165	11	6					
16	Pilas.	45	52	164	5	6					
17	Pilas.	18	88	164	5	6	90.00				
18	Trave	23	28	163	9	5					
19	Trave	22	45	163	9	5					
20	Trave	24	36	163	6	5					
21	Pilas.	12	26	162	5	5					
22	Pilas.	43	69	162	5	5	90.00				
23	Trave	71	101	160	10	4					
24	Trave	61	64	160	6	4					
25	Trave	46	78	160	7	4					
26	Trave	78	548	160	7	4					
27	Trave	12	15	160	7	4					
28	Pilas.	87	84	162	5	5	90.00				
29	Pilas.	86	101	161	3	4	90.00				
30	Pilas.	9	55	161	3	4	90.00				
31	Pilas.	21	41	161	3	4	90.00				
32	Pilas.	2	87	161	3	4	90.00				
33	Pilas.	29	96	161	3	4					
34	Pilas.	39	68	161	3	4					
35	Pilas.	40	76	161	3	4					
36	Pilas.	73	3	161	3	4					
37	Trave	65	66	165	11	6					
38	Trave	19	47	165	11	6					
39	Trave	7	88	165	11	6					
40	Pilas.	91	54	164	5	6					
41	Pilas.	24	38	164	5	6	90.00				
42	Trave	28	32	163	9	5					
43	Trave	45	91	163	9	5					
44	Trave	36	37	163	6	5					
45	Pilas.	15	23	162	5	5					
46	Pilas.	44	74	162	5	5					
47	Pilas.	17	528	161	1	4					
48	Trave	1	462	160	7	4					
49	Trave	53	446	160	7	4					
50	Trave	5	71	160	10	4					
51	Trave	15	20	160	7	4					
52	Trave	49	794	160	7	4					
53	Trave	66	67	165	11	6					
54	Trave	16	50	165	11	6					
55	Trave	85	38	165	11	6					
56	Pilas.	75	56	164	5	6					
57	Pilas.	37	27	164	5	6	90.00				
58	Trave	36	59	163	9	5					
59	Pilas.	20	28	162	5	5					
60	Pilas.	46	79	162	5	5					
61	Trave	20	34	160	7	4					
62	Pilas.	53	94	162	5	5	90.00				
63	Trave	67	70	165	11	6					
64	Trave	47	62	165	11	6					
65	Trave	88	27	165	11	6					
66	Pilas.	77	62	164	5	6	90.00				
67	Pilas.	59	16	164	5	6	90.00				
68	Trave	37	69	163	9	5					
69	Pilas.	34	32	162	5	5					
70	Pilas.	78	92	162	5	5					
71	Trave	34	35	160	7	4					

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
72	Trave	35	313	160	7	4					
73	Trave	70	98	165	11	6					
74	Trave	50	51	165	11	6					
75	Trave	38	90	165	6	6					
76	Pilas.	26	63	164	5	6					
77	Pilas.	69	8	164	5	6	90.00				
78	Pilas.	95	370	161	1	4	90.00				
79	Pilas.	33	381	161	1	4					
80	Trave	59	69	163	9	5					
81	Pilas.	35	31	162	5	5					
82	Pilas.	80	100	162	5	5					
83	Pilas.	25	519	161	1	4					
84	Pilas.	93	510	161	1	4					
85	Pilas.	11	494	161	1	4					
86	Pilas.	42	485	161	1	4					
87	Trave	80	419	160	7	4					
88	Trave	77	60	163	9	5					
89	Trave	100	77	163	9	5					
90	Trave	6	454	160	7	4					
91	Trave	52	54	165	11	6					
92	Trave	90	16	165	11	6					
93	Pilas.	28	66	164	5	6					
94	Pilas.	79	13	164	5	6					
95	Trave	32	31	163	9	5					
96	Trave	91	75	163	9	5					
97	Trave	79	92	163	9	5					
98	Trave	813	170	160	7	4					
99	Pilas.	96	22	162	5	5					
100	Pilas.	101	99	162	5	5	90.00				
101	Trave	87	96	160	8	4					
102	Pilas.	72	331	161	3	4	90.00				
103	Pilas.	48	216	161	1	4	90.00				
104	Pilas.	97	226	161	1	4	90.00				
105	Pilas.	83	231	161	1	4	90.00				
106	Trave	90	27	165	6	6					
107	Trave	54	56	165	11	6					
108	Trave	27	8	165	11	6					
109	Pilas.	32	67	164	5	6					
110	Pilas.	92	19	164	5	6					
111	Trave	31	60	163	9	5					
112	Trave	75	77	163	9	5					
113	Trave	92	100	163	9	5					
114	Trave	82	99	163	9	5					
115	Pilas.	68	45	162	5	5					
116	Pilas.	1	18	162	5	5	90.00				
117	Trave	96	68	160	8	4					
118	Trave	74	79	163	9	5					
119	Pilas.	89	399	161	1	4					
120	Pilas.	57	256	161	1	4					
121	Pilas.	58	431	161	1	4					
122	Pilas.	23	65	164	5	6					
123	Trave	56	62	165	11	6					
124	Trave	16	8	165	11	6					
125	Pilas.	31	70	164	5	6					
126	Pilas.	100	47	164	5	6					
127	Pilas.	82	30	164	5	6	90.00				
128	Trave	84	26	163	9	5					
129	Trave	59	84	163	9	5					
130	Trave	94	18	163	9	5					
131	Pilas.	76	91	162	5	5					
132	Pilas.	55	24	162	5	5	90.00				
133	Trave	68	76	160	8	4					
134	Pilas.	14	266	161	1	4	90.00				
135	Trave	101	55	160	10	4					
136	Trave	64	470	160	7	4					
137	Trave	61	41	160	10	4					
138	Pilas.	74	10	164	5	6					
139	Trave	50	63	165	11	6					
140	Trave	8	10	165	11	6					
141	Pilas.	60	98	164	5	6					
142	Pilas.	84	50	164	5	6	90.00				
143	Pilas.	94	7	164	5	6	90.00				
144	Trave	51	52	165	11	6					
145	Pilas.	5	82	162	5	5	90.00				

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
146	Trave	99	24	163	9	5					
147	Pilas.	3	75	162	5	5					
148	Pilas.	64	37	162	5	5	90.00				
149	Trave	76	3	160	8	4					
150	Pilas.	4	390	161	1	4					
151	Trave	831	442	160	7	4					
152	Trave	41	43	160	7	4					
153	Trave	43	44	160	7	4					
154	Trave	69	74	163	9	5					
155	Trave	62	98	165	11	6					
156	Trave	10	13	165	11	6					
157	Trave	30	7	165	11	6					
158	Pilas.	22	51	164	5	6					
159	Pilas.	117	12	161	1	4					
160	Trave	180	467	160	7	4					
161	Trave	174	451	160	7	4					
162	Trave	170	830	160	7	4					
163	Trave	198	507	160	7	4					
164	Pilas.	107	474	161	1	4	90.00				
165	Pilas.	108	44	161	1	4					
166	Pilas.	116	15	161	1	4					
167	Pilas.	115	20	161	1	4					
168	Pilas.	114	34	161	1	4					
169	Pilas.	113	503	161	1	4					
170	Trave	163	424	160	7	4					
171	Trave	177	459	160	7	4					
172	Pilas.	103	478	161	3	4	90.00				
173	Pilas.	104	276	161	1	4	90.00				
174	Pilas.	105	286	161	1	4	90.00				
175	Pilas.	106	291	161	1	4	90.00				
176	Pilas.	110	549	161	1	4					
177	Pilas.	111	261	161	1	4					
178	Pilas.	112	440	161	1	4					
179	Pilas.	119	271	161	1	4	90.00				
180	Trave	183	476	160	7	4					
181	Pilas.	109	46	161	1	4					
182	Trave	746	750	160	7	4					
183	Pilas.	207	326	161	1	4					
184	Trave	462	180	160	7	4					
185	Trave	446	174	160	7	4					
186	Trave	436	812	160	7	4					
187	Trave	313	198	160	7	4					
188	Pilas.	140	236	161	1	4	90.00				
189	Pilas.	144	241	161	1	4					
190	Pilas.	203	321	161	1	4					
191	Pilas.	199	316	161	1	4					
192	Pilas.	192	306	161	1	4					
193	Pilas.	188	301	161	1	4					
194	Trave	419	163	160	7	4					
195	Trave	454	177	160	7	4					
196	Pilas.	120	211	161	3	4	90.00				
197	Pilas.	124	338	161	1	4	90.00				
198	Pilas.	132	356	161	1	4	90.00				
199	Pilas.	136	364	161	1	4	90.00				
200	Pilas.	152	251	161	1	4					
201	Pilas.	156	406	161	1	4					
202	Pilas.	168	434	161	1	4					
203	Pilas.	160	416	161	1	4	90.00				
204	Trave	470	183	160	7	4					
205	Pilas.	148	246	161	1	4					
206	Trave	812	813	160	7	4					
207	Trave	467	64	160	7	4					
208	Trave	451	6	160	7	4					
209	Trave	442	746	160	7	4					
210	Trave	507	81	160	7	4					
211	Pilas.	184	477	161	1	4	90.00				
212	Pilas.	196	311	161	1	4					
213	Trave	424	49	160	7	4					
214	Trave	459	1	160	7	4					
215	Pilas.	185	296	161	3	4	90.00				
216	Pilas.	172	444	161	1	4	90.00				
217	Pilas.	178	460	161	1	4	90.00				
218	Pilas.	181	468	161	1	4	90.00				
219	Pilas.	161	417	161	1	4					

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
220	Pilas.	171	443	161	1	4					
221	Pilas.	164	425	161	1	4	90.00				
222	Trave	476	43	160	7	4					
223	Trave	750	81	160	7	4					
224	Pilas.	528	207	161	1	4					
225	Pilas.	370	140	161	1	4	90.00				
226	Pilas.	381	144	161	1	4					
227	Pilas.	519	203	161	1	4					
228	Pilas.	510	199	161	1	4					
229	Pilas.	494	192	161	1	4					
230	Pilas.	485	188	161	1	4					
231	Pilas.	331	120	161	3	4	90.00				
232	Pilas.	216	124	161	1	4	90.00				
233	Pilas.	226	132	161	1	4	90.00				
234	Pilas.	231	136	161	1	4	90.00				
235	Pilas.	399	152	161	1	4					
236	Pilas.	256	156	161	1	4					
237	Pilas.	431	168	161	1	4					
238	Pilas.	266	160	161	1	4	90.00				
239	Pilas.	390	148	161	1	4					
240	Pilas.	474	184	161	1	4	90.00				
241	Pilas.	503	196	161	1	4					
242	Pilas.	478	185	161	3	4	90.00				
243	Pilas.	276	172	161	1	4	90.00				
244	Pilas.	286	178	161	1	4	90.00				
245	Pilas.	291	181	161	1	4	90.00				
246	Pilas.	261	161	161	1	4					
247	Pilas.	440	171	161	1	4					
248	Pilas.	271	164	161	1	4	90.00				
249	Pilas.	326	117	161	1	4					
250	Pilas.	236	107	161	1	4	90.00				
251	Pilas.	241	108	161	1	4					
252	Pilas.	321	116	161	1	4					
253	Pilas.	316	115	161	1	4					
254	Pilas.	306	114	161	1	4					
255	Pilas.	301	113	161	1	4					
256	Pilas.	211	103	161	3	4	90.00				
257	Pilas.	338	104	161	1	4	90.00				
258	Pilas.	356	105	161	1	4	90.00				
259	Pilas.	364	106	161	1	4	90.00				
260	Pilas.	251	110	161	1	4					
261	Pilas.	406	111	161	1	4					
262	Pilas.	434	112	161	1	4					
263	Pilas.	416	119	161	1	4	90.00				
264	Pilas.	246	109	161	1	4					
265	Pilas.	477	43	161	1	4	90.00				
266	Pilas.	311	35	161	1	4					
267	Pilas.	296	5	161	3	4	90.00				
268	Pilas.	444	53	161	1	4	90.00				
269	Pilas.	460	1	161	1	4	90.00				
270	Pilas.	468	64	161	1	4	90.00				
271	Pilas.	417	80	161	1	4					
272	Pilas.	443	81	161	1	4					
273	Pilas.	425	49	161	1	4	90.00				
274	Trave	540	80	160	7	4					
275	Pilas.	549	550	161	1	4					
276	Trave	544	540	160	7	4					
277	Pilas.	550	551	161	1	4					
278	Trave	548	544	160	7	4					
279	Pilas.	551	78	161	1	4					
280	Trave	794	795	160	7	4					
281	Trave	795	436	160	7	4					
282	Trave	830	831	160	7	4					
283	Trave	82	845	163	9	5					
284	Trave	845	94	163	9	5					



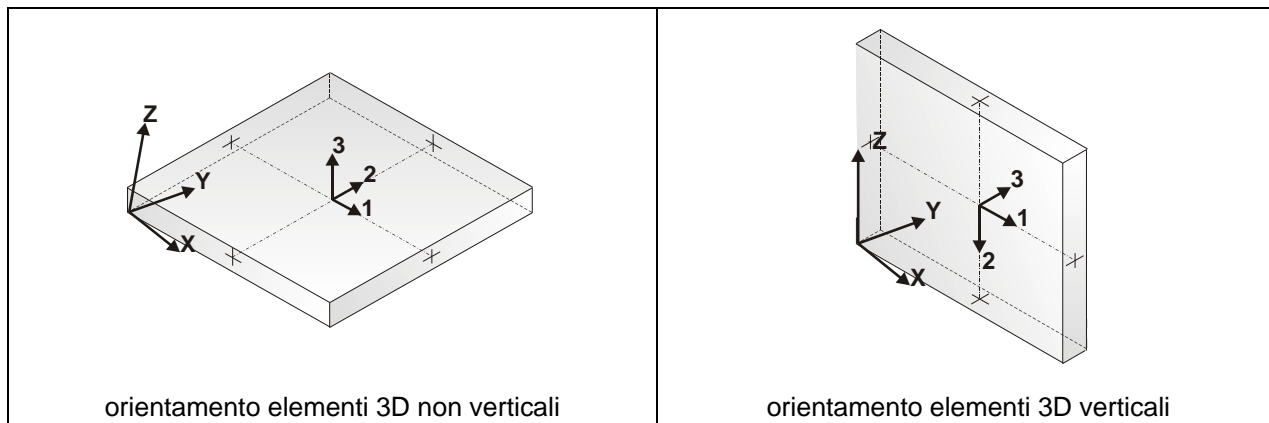
## MODELLAZIONE STRUTTURA: ELEMENTI SHELL

### LEGENDA TABELLA DATI SHELL

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

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

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



In particolare per ogni elemento viene indicato in tabella:

<b>Elem.</b>	numero dell'elemento
<b>Note</b>	codice di comportamento: <i>Guscio</i> (elemento guscio in elevazione non verticale) <i>Guscio fond.</i> (elemento guscio su suolo elastico) <i>Setto</i> (elemento guscio in elevazione verticale) <i>Membrana</i> (elemento guscio con comportamento membranale)
<b>Nodo I (J, K, L)</b>	numero del nodo I (J, K, L)
<b>Mat.</b>	codice del materiale assegnato all'elemento
<b>Spessore</b>	spessore dell'elemento (costante)
<b>Wink V</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
<b>Wink O</b>	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	711	713	714	712	159	4	40.0			
2	Setto	48	218	217	216	159	4	40.0			
3	Setto	102	223	222	221	159	4	40.0			
4	Setto	97	228	227	226	159	4	40.0			
5	Setto	83	233	232	231	159	4	40.0			
6	Setto	537	261	111	404	159	4	40.0			
7	Setto	150	151	147	145	159	4	40.0			
8	Setto	151	141	375	147	159	4	40.0			
9	Setto	110	253	252	251	159	4	40.0			
10	Setto	57	258	257	256	159	4	40.0			
11	Setto	111	263	262	261	159	4	40.0			
12	Setto	741	760	761	735	159	4	40.0			
13	Setto	760	749	743	761	159	4	40.0			
14	Setto	104	278	277	276	159	4	40.0			
15	Setto	118	283	282	281	159	4	40.0			
16	Setto	105	288	287	286	159	4	40.0			
17	Setto	106	293	292	291	159	4	40.0			
18	Setto	713	485	42	714	159	4	40.0			
19	Setto	113	303	302	301	159	4	40.0			
20	Setto	599	600	591	590	159	4	40.0			
21	Setto	35	313	312	311	159	4	40.0			
22	Setto	600	601	592	591	159	4	40.0			
23	Setto	601	602	593	592	159	4	40.0			
24	Setto	117	328	327	326	159	4	40.0			
25	Setto	192	715	697	494	159	4	40.0			
26	Setto	715	716	699	697	159	4	40.0			
27	Setto	716	717	701	699	159	4	40.0			
28	Setto	124	219	341	338	159	4	40.0			
29	Setto	126	344	343	220	159	4	40.0			
30	Setto	125	345	346	342	159	4	40.0			
31	Setto	128	224	349	348	159	4	40.0			
32	Setto	130	352	351	225	159	4	40.0			
33	Setto	129	353	354	350	159	4	40.0			
34	Setto	132	229	357	356	159	4	40.0			
35	Setto	134	360	359	230	159	4	40.0			
36	Setto	133	361	362	358	159	4	40.0			
37	Setto	136	234	365	364	159	4	40.0			
38	Setto	138	368	367	235	159	4	40.0			
39	Setto	137	369	371	366	159	4	40.0			
40	Setto	538	161	261	537	159	4	40.0			
41	Setto	539	417	161	538	159	4	40.0			
42	Setto	540	80	417	539	159	4	40.0			
43	Setto	237	242	150	239	159	4	40.0			
44	Setto	242	243	151	150	159	4	40.0			
45	Setto	243	240	141	151	159	4	40.0			
46	Setto	238	244	242	237	159	4	40.0			
47	Setto	244	245	243	242	159	4	40.0			
48	Setto	245	142	240	243	159	4	40.0			
49	Setto	152	254	400	399	159	4	40.0			
50	Setto	154	404	403	255	159	4	40.0			
51	Setto	153	405	407	402	159	4	40.0			
52	Setto	156	259	409	406	159	4	40.0			
53	Setto	158	412	411	260	159	4	40.0			
54	Setto	157	413	414	410	159	4	40.0			
55	Setto	161	264	418	417	159	4	40.0			
56	Setto	159	415	421	265	159	4	40.0			
57	Setto	162	422	423	420	159	4	40.0			
58	Setto	737	762	760	741	159	4	40.0			
59	Setto	762	745	749	760	159	4	40.0			
60	Setto	739	763	762	737	159	4	40.0			
61	Setto	763	747	745	762	159	4	40.0			
62	Setto	736	764	763	739	159	4	40.0			
63	Setto	841	112	440	843	159	4	40.0			
64	Setto	172	279	445	444	159	4	40.0			
65	Setto	127	347	448	280	159	4	40.0			
66	Setto	173	449	450	447	159	4	40.0			
67	Setto	175	284	453	452	159	4	40.0			
68	Setto	131	355	456	285	159	4	40.0			
69	Setto	176	457	458	455	159	4	40.0			
70	Setto	178	289	461	460	159	4	40.0			
71	Setto	135	363	464	290	159	4	40.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
72	Setto	179	465	466	463	159	4	40.0			
73	Setto	181	294	469	468	159	4	40.0			
74	Setto	139	372	472	295	159	4	40.0			
75	Setto	182	473	475	471	159	4	40.0			
76	Setto	717	121	703	701	159	4	40.0			
77	Setto	121	122	705	703	159	4	40.0			
78	Setto	122	123	707	705	159	4	40.0			
79	Setto	188	304	486	485	159	4	40.0			
80	Setto	190	490	489	305	159	4	40.0			
81	Setto	189	491	492	488	159	4	40.0			
82	Setto	602	603	594	593	159	4	40.0			
83	Setto	603	604	595	594	159	4	40.0			
84	Setto	604	605	596	595	159	4	40.0			
85	Setto	196	314	504	503	159	4	40.0			
86	Setto	198	507	506	315	159	4	40.0			
87	Setto	197	508	509	505	159	4	40.0			
88	Setto	605	606	597	596	159	4	40.0			
89	Setto	606	109	246	597	159	4	40.0			
90	Setto	390	193	194	4	159	4	40.0			
91	Setto	193	195	200	194	159	4	40.0			
92	Setto	195	201	202	200	159	4	40.0			
93	Setto	201	204	205	202	159	4	40.0			
94	Setto	207	329	529	528	159	4	40.0			
95	Setto	209	533	532	330	159	4	40.0			
96	Setto	208	534	535	531	159	4	40.0			
97	Setto	123	186	709	707	159	4	40.0			
98	Setto	186	212	711	709	159	4	40.0			
99	Setto	212	213	713	711	159	4	40.0			
100	Setto	216	217	219	124	159	4	40.0			
101	Setto	218	126	220	217	159	4	40.0			
102	Setto	217	220	125	219	159	4	40.0			
103	Setto	221	222	224	128	159	4	40.0			
104	Setto	223	130	225	222	159	4	40.0			
105	Setto	222	225	129	224	159	4	40.0			
106	Setto	226	227	229	132	159	4	40.0			
107	Setto	228	134	230	227	159	4	40.0			
108	Setto	227	230	133	229	159	4	40.0			
109	Setto	231	232	234	136	159	4	40.0			
110	Setto	233	138	235	232	159	4	40.0			
111	Setto	232	235	137	234	159	4	40.0			
112	Setto	541	537	404	154	159	4	40.0			
113	Setto	542	538	537	541	159	4	40.0			
114	Setto	543	539	538	542	159	4	40.0			
115	Setto	375	247	248	143	159	4	40.0			
116	Setto	247	249	250	248	159	4	40.0			
117	Setto	249	379	380	250	159	4	40.0			
118	Setto	141	382	247	375	159	4	40.0			
119	Setto	382	383	249	247	159	4	40.0			
120	Setto	383	378	379	249	159	4	40.0			
121	Setto	251	252	254	152	159	4	40.0			
122	Setto	253	154	255	252	159	4	40.0			
123	Setto	252	255	153	254	159	4	40.0			
124	Setto	256	257	259	156	159	4	40.0			
125	Setto	258	158	260	257	159	4	40.0			
126	Setto	257	260	157	259	159	4	40.0			
127	Setto	261	262	264	161	159	4	40.0			
128	Setto	263	159	265	262	159	4	40.0			
129	Setto	262	265	162	264	159	4	40.0			
130	Setto	742	765	764	736	159	4	40.0			
131	Setto	842	843	744	844	159	4	40.0			
132	Setto	738	766	765	742	159	4	40.0			
133	Setto	843	440	171	744	159	4	40.0			
134	Setto	740	767	766	738	159	4	40.0			
135	Setto	439	844	482	441	159	4	40.0			
136	Setto	276	277	279	172	159	4	40.0			
137	Setto	278	127	280	277	159	4	40.0			
138	Setto	277	280	173	279	159	4	40.0			
139	Setto	281	282	284	175	159	4	40.0			
140	Setto	283	131	285	282	159	4	40.0			
141	Setto	282	285	176	284	159	4	40.0			
142	Setto	286	287	289	178	159	4	40.0			
143	Setto	288	135	290	287	159	4	40.0			
144	Setto	287	290	179	289	159	4	40.0			
145	Setto	291	292	294	181	159	4	40.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
146	Setto	293	139	295	292	159	4	40.0			
147	Setto	292	295	182	294	159	4	40.0			
148	Setto	213	188	485	713	159	4	40.0			
149	Setto	306	214	715	192	159	4	40.0			
150	Setto	214	215	716	715	159	4	40.0			
151	Setto	301	302	304	188	159	4	40.0			
152	Setto	303	190	305	302	159	4	40.0			
153	Setto	302	305	189	304	159	4	40.0			
154	Setto	204	206	307	205	159	4	40.0			
155	Setto	206	308	309	307	159	4	40.0			
156	Setto	308	310	317	309	159	4	40.0			
157	Setto	311	312	314	196	159	4	40.0			
158	Setto	313	198	315	312	159	4	40.0			
159	Setto	312	315	197	314	159	4	40.0			
160	Setto	310	318	319	317	159	4	40.0			
161	Setto	318	320	322	319	159	4	40.0			
162	Setto	320	399	89	322	159	4	40.0			
163	Setto	148	323	193	390	159	4	40.0			
164	Setto	323	324	195	193	159	4	40.0			
165	Setto	324	325	201	195	159	4	40.0			
166	Setto	326	327	329	207	159	4	40.0			
167	Setto	328	209	330	327	159	4	40.0			
168	Setto	327	330	208	329	159	4	40.0			
169	Setto	215	297	717	716	159	4	40.0			
170	Setto	297	299	121	717	159	4	40.0			
171	Setto	299	300	122	121	159	4	40.0			
172	Setto	300	332	123	122	159	4	40.0			
173	Setto	332	333	186	123	159	4	40.0			
174	Setto	333	334	212	186	159	4	40.0			
175	Setto	334	335	213	212	159	4	40.0			
176	Setto	335	301	188	213	159	4	40.0			
177	Setto	114	336	214	306	159	4	40.0			
178	Setto	338	341	278	104	159	4	40.0			
179	Setto	219	125	342	341	159	4	40.0			
180	Setto	341	342	127	278	159	4	40.0			
181	Setto	220	343	345	125	159	4	40.0			
182	Setto	344	102	221	343	159	4	40.0			
183	Setto	343	221	128	345	159	4	40.0			
184	Setto	342	346	347	127	159	4	40.0			
185	Setto	345	128	348	346	159	4	40.0			
186	Setto	346	348	118	347	159	4	40.0			
187	Setto	348	349	283	118	159	4	40.0			
188	Setto	224	129	350	349	159	4	40.0			
189	Setto	349	350	131	283	159	4	40.0			
190	Setto	225	351	353	129	159	4	40.0			
191	Setto	352	97	226	351	159	4	40.0			
192	Setto	351	226	132	353	159	4	40.0			
193	Setto	350	354	355	131	159	4	40.0			
194	Setto	353	132	356	354	159	4	40.0			
195	Setto	354	356	105	355	159	4	40.0			
196	Setto	356	357	288	105	159	4	40.0			
197	Setto	229	133	358	357	159	4	40.0			
198	Setto	357	358	135	288	159	4	40.0			
199	Setto	230	359	361	133	159	4	40.0			
200	Setto	360	83	231	359	159	4	40.0			
201	Setto	359	231	136	361	159	4	40.0			
202	Setto	358	362	363	135	159	4	40.0			
203	Setto	361	136	364	362	159	4	40.0			
204	Setto	362	364	106	363	159	4	40.0			
205	Setto	364	365	293	106	159	4	40.0			
206	Setto	234	137	366	365	159	4	40.0			
207	Setto	365	366	139	293	159	4	40.0			
208	Setto	235	367	369	137	159	4	40.0			
209	Setto	368	95	370	367	159	4	40.0			
210	Setto	367	370	140	369	159	4	40.0			
211	Setto	366	371	372	139	159	4	40.0			
212	Setto	369	140	236	371	159	4	40.0			
213	Setto	371	236	107	372	159	4	40.0			
214	Setto	544	540	539	543	159	4	40.0			
215	Setto	545	541	154	253	159	4	40.0			
216	Setto	546	542	541	545	159	4	40.0			
217	Setto	547	543	542	546	159	4	40.0			
218	Setto	548	544	543	547	159	4	40.0			
219	Setto	549	545	253	110	159	4	40.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
220	Setto	550	546	545	549	159	4	40.0			
221	Setto	551	547	546	550	159	4	40.0			
222	Setto	78	548	547	551	159	4	40.0			
223	Setto	240	384	382	141	159	4	40.0			
224	Setto	384	385	383	382	159	4	40.0			
225	Setto	385	376	378	383	159	4	40.0			
226	Setto	142	386	384	240	159	4	40.0			
227	Setto	386	387	385	384	159	4	40.0			
228	Setto	387	377	376	385	159	4	40.0			
229	Setto	379	388	389	380	159	4	40.0			
230	Setto	388	391	392	389	159	4	40.0			
231	Setto	391	381	33	392	159	4	40.0			
232	Setto	378	393	388	379	159	4	40.0			
233	Setto	393	394	391	388	159	4	40.0			
234	Setto	394	144	381	391	159	4	40.0			
235	Setto	376	395	393	378	159	4	40.0			
236	Setto	395	396	394	393	159	4	40.0			
237	Setto	396	241	144	394	159	4	40.0			
238	Setto	377	397	395	376	159	4	40.0			
239	Setto	397	398	396	395	159	4	40.0			
240	Setto	398	108	241	396	159	4	40.0			
241	Setto	399	400	401	89	159	4	40.0			
242	Setto	254	153	402	400	159	4	40.0			
243	Setto	400	402	155	401	159	4	40.0			
244	Setto	255	403	405	153	159	4	40.0			
245	Setto	404	111	406	403	159	4	40.0			
246	Setto	403	406	156	405	159	4	40.0			
247	Setto	402	407	408	155	159	4	40.0			
248	Setto	405	156	256	407	159	4	40.0			
249	Setto	407	256	57	408	159	4	40.0			
250	Setto	406	409	263	111	159	4	40.0			
251	Setto	259	157	410	409	159	4	40.0			
252	Setto	409	410	159	263	159	4	40.0			
253	Setto	260	411	413	157	159	4	40.0			
254	Setto	412	14	266	411	159	4	40.0			
255	Setto	411	266	160	413	159	4	40.0			
256	Setto	410	414	415	159	159	4	40.0			
257	Setto	413	160	416	414	159	4	40.0			
258	Setto	414	416	119	415	159	4	40.0			
259	Setto	417	418	419	80	159	4	40.0			
260	Setto	264	162	420	418	159	4	40.0			
261	Setto	418	420	163	419	159	4	40.0			
262	Setto	265	421	422	162	159	4	40.0			
263	Setto	415	119	271	421	159	4	40.0			
264	Setto	421	271	164	422	159	4	40.0			
265	Setto	420	423	424	163	159	4	40.0			
266	Setto	422	164	425	423	159	4	40.0			
267	Setto	423	425	49	424	159	4	40.0			
268	Setto	187	768	767	740	159	4	40.0			
269	Setto	844	744	748	482	159	4	40.0			
270	Setto	749	769	770	743	159	4	40.0			
271	Setto	769	216	48	770	159	4	40.0			
272	Setto	745	771	769	749	159	4	40.0			
273	Setto	771	124	216	769	159	4	40.0			
274	Setto	747	772	771	745	159	4	40.0			
275	Setto	772	338	124	771	159	4	40.0			
276	Setto	438	842	844	439	159	4	40.0			
277	Setto	773	104	338	772	159	4	40.0			
278	Setto	744	171	443	748	159	4	40.0			
279	Setto	774	276	104	773	159	4	40.0			
280	Setto	441	482	746	442	159	4	40.0			
281	Setto	775	172	276	774	159	4	40.0			
282	Setto	482	748	750	746	159	4	40.0			
283	Setto	776	444	172	775	159	4	40.0			
284	Setto	748	443	81	750	159	4	40.0			
285	Setto	777	53	444	776	159	4	40.0			
286	Setto	444	445	446	53	159	4	40.0			
287	Setto	279	173	447	445	159	4	40.0			
288	Setto	445	447	174	446	159	4	40.0			
289	Setto	280	448	449	173	159	4	40.0			
290	Setto	347	118	281	448	159	4	40.0			
291	Setto	448	281	175	449	159	4	40.0			
292	Setto	447	450	451	174	159	4	40.0			
293	Setto	449	175	452	450	159	4	40.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
294	Setto	450	452	6	451	159	4	40.0			
295	Setto	452	453	454	6	159	4	40.0			
296	Setto	284	176	455	453	159	4	40.0			
297	Setto	453	455	177	454	159	4	40.0			
298	Setto	285	456	457	176	159	4	40.0			
299	Setto	355	105	286	456	159	4	40.0			
300	Setto	456	286	178	457	159	4	40.0			
301	Setto	455	458	459	177	159	4	40.0			
302	Setto	457	178	460	458	159	4	40.0			
303	Setto	458	460	1	459	159	4	40.0			
304	Setto	460	461	462	1	159	4	40.0			
305	Setto	289	179	463	461	159	4	40.0			
306	Setto	461	463	180	462	159	4	40.0			
307	Setto	290	464	465	179	159	4	40.0			
308	Setto	363	106	291	464	159	4	40.0			
309	Setto	464	291	181	465	159	4	40.0			
310	Setto	463	466	467	180	159	4	40.0			
311	Setto	465	181	468	466	159	4	40.0			
312	Setto	466	468	64	467	159	4	40.0			
313	Setto	468	469	470	64	159	4	40.0			
314	Setto	294	182	471	469	159	4	40.0			
315	Setto	469	471	183	470	159	4	40.0			
316	Setto	295	472	473	182	159	4	40.0			
317	Setto	372	107	474	472	159	4	40.0			
318	Setto	472	474	184	473	159	4	40.0			
319	Setto	471	475	476	183	159	4	40.0			
320	Setto	473	184	477	475	159	4	40.0			
321	Setto	475	477	43	476	159	4	40.0			
322	Setto	336	337	215	214	159	4	40.0			
323	Setto	337	339	297	215	159	4	40.0			
324	Setto	339	340	299	297	159	4	40.0			
325	Setto	340	479	300	299	159	4	40.0			
326	Setto	479	480	332	300	159	4	40.0			
327	Setto	480	481	333	332	159	4	40.0			
328	Setto	481	483	334	333	159	4	40.0			
329	Setto	483	484	335	334	159	4	40.0			
330	Setto	484	113	301	335	159	4	40.0			
331	Setto	485	486	487	42	159	4	40.0			
332	Setto	304	189	488	486	159	4	40.0			
333	Setto	486	488	191	487	159	4	40.0			
334	Setto	305	489	491	189	159	4	40.0			
335	Setto	490	112	434	489	159	4	40.0			
336	Setto	489	434	168	491	159	4	40.0			
337	Setto	488	492	493	191	159	4	40.0			
338	Setto	491	168	431	492	159	4	40.0			
339	Setto	492	431	58	493	159	4	40.0			
340	Setto	325	495	204	201	159	4	40.0			
341	Setto	495	496	206	204	159	4	40.0			
342	Setto	496	497	308	206	159	4	40.0			
343	Setto	497	498	310	308	159	4	40.0			
344	Setto	498	499	318	310	159	4	40.0			
345	Setto	499	500	320	318	159	4	40.0			
346	Setto	500	152	399	320	159	4	40.0			
347	Setto	246	501	323	148	159	4	40.0			
348	Setto	501	502	324	323	159	4	40.0			
349	Setto	503	504	303	113	159	4	40.0			
350	Setto	314	197	505	504	159	4	40.0			
351	Setto	504	505	190	303	159	4	40.0			
352	Setto	315	506	508	197	159	4	40.0			
353	Setto	507	81	443	506	159	4	40.0			
354	Setto	506	443	171	508	159	4	40.0			
355	Setto	505	509	490	190	159	4	40.0			
356	Setto	508	171	440	509	159	4	40.0			
357	Setto	509	440	112	490	159	4	40.0			
358	Setto	502	511	325	324	159	4	40.0			
359	Setto	511	512	495	325	159	4	40.0			
360	Setto	512	513	496	495	159	4	40.0			
361	Setto	513	514	497	496	159	4	40.0			
362	Setto	514	515	498	497	159	4	40.0			
363	Setto	515	516	499	498	159	4	40.0			
364	Setto	516	517	500	499	159	4	40.0			
365	Setto	517	251	152	500	159	4	40.0			
366	Setto	109	518	501	246	159	4	40.0			
367	Setto	518	520	502	501	159	4	40.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
368	Setto	520	521	511	502	159	4	40.0			
369	Setto	521	522	512	511	159	4	40.0			
370	Setto	522	523	513	512	159	4	40.0			
371	Setto	523	524	514	513	159	4	40.0			
372	Setto	524	525	515	514	159	4	40.0			
373	Setto	525	526	516	515	159	4	40.0			
374	Setto	526	527	517	516	159	4	40.0			
375	Setto	527	110	251	517	159	4	40.0			
376	Setto	528	529	530	17	159	4	40.0			
377	Setto	329	208	531	529	159	4	40.0			
378	Setto	529	531	210	530	159	4	40.0			
379	Setto	330	532	534	208	159	4	40.0			
380	Setto	533	116	321	532	159	4	40.0			
381	Setto	532	321	203	534	159	4	40.0			
382	Setto	531	535	536	210	159	4	40.0			
383	Setto	534	203	519	535	159	4	40.0			
384	Setto	535	519	25	536	159	4	40.0			
385	Setto	370	552	553	95	159	4	40.0			
386	Setto	552	554	555	553	159	4	40.0			
387	Setto	554	373	374	555	159	4	40.0			
388	Setto	140	556	552	370	159	4	40.0			
389	Setto	556	557	554	552	159	4	40.0			
390	Setto	557	239	373	554	159	4	40.0			
391	Setto	236	558	556	140	159	4	40.0			
392	Setto	558	559	557	556	159	4	40.0			
393	Setto	559	237	239	557	159	4	40.0			
394	Setto	107	560	558	236	159	4	40.0			
395	Setto	560	561	559	558	159	4	40.0			
396	Setto	561	238	237	559	159	4	40.0			
397	Setto	373	145	146	374	159	4	40.0			
398	Setto	145	147	149	146	159	4	40.0			
399	Setto	147	375	143	149	159	4	40.0			
400	Setto	239	150	145	373	159	4	40.0			
401	Setto	381	562	563	33	159	4	40.0			
402	Setto	562	564	565	563	159	4	40.0			
403	Setto	564	566	567	565	159	4	40.0			
404	Setto	566	568	569	567	159	4	40.0			
405	Setto	568	570	571	569	159	4	40.0			
406	Setto	570	572	573	571	159	4	40.0			
407	Setto	572	574	575	573	159	4	40.0			
408	Setto	574	576	577	575	159	4	40.0			
409	Setto	576	578	579	577	159	4	40.0			
410	Setto	578	390	4	579	159	4	40.0			
411	Setto	144	580	562	381	159	4	40.0			
412	Setto	580	581	564	562	159	4	40.0			
413	Setto	581	582	566	564	159	4	40.0			
414	Setto	582	583	568	566	159	4	40.0			
415	Setto	583	584	570	568	159	4	40.0			
416	Setto	584	585	572	570	159	4	40.0			
417	Setto	585	586	574	572	159	4	40.0			
418	Setto	586	587	576	574	159	4	40.0			
419	Setto	587	588	578	576	159	4	40.0			
420	Setto	588	148	390	578	159	4	40.0			
421	Setto	241	589	580	144	159	4	40.0			
422	Setto	589	590	581	580	159	4	40.0			
423	Setto	590	591	582	581	159	4	40.0			
424	Setto	591	592	583	582	159	4	40.0			
425	Setto	592	593	584	583	159	4	40.0			
426	Setto	593	594	585	584	159	4	40.0			
427	Setto	594	595	586	585	159	4	40.0			
428	Setto	595	596	587	586	159	4	40.0			
429	Setto	596	597	588	587	159	4	40.0			
430	Setto	597	246	148	588	159	4	40.0			
431	Setto	108	598	589	241	159	4	40.0			
432	Setto	598	599	590	589	159	4	40.0			
433	Setto	519	607	608	25	159	4	40.0			
434	Setto	607	609	610	608	159	4	40.0			
435	Setto	609	611	612	610	159	4	40.0			
436	Setto	611	613	614	612	159	4	40.0			
437	Setto	613	615	616	614	159	4	40.0			
438	Setto	615	617	618	616	159	4	40.0			
439	Setto	617	619	620	618	159	4	40.0			
440	Setto	619	621	622	620	159	4	40.0			
441	Setto	621	623	624	622	159	4	40.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
442	Setto	623	510	93	624	159	4	40.0			
443	Setto	203	625	607	519	159	4	40.0			
444	Setto	625	626	609	607	159	4	40.0			
445	Setto	626	627	611	609	159	4	40.0			
446	Setto	627	628	613	611	159	4	40.0			
447	Setto	628	629	615	613	159	4	40.0			
448	Setto	629	630	617	615	159	4	40.0			
449	Setto	630	631	619	617	159	4	40.0			
450	Setto	631	632	621	619	159	4	40.0			
451	Setto	632	633	623	621	159	4	40.0			
452	Setto	633	199	510	623	159	4	40.0			
453	Setto	321	634	625	203	159	4	40.0			
454	Setto	634	635	626	625	159	4	40.0			
455	Setto	635	636	627	626	159	4	40.0			
456	Setto	636	637	628	627	159	4	40.0			
457	Setto	637	638	629	628	159	4	40.0			
458	Setto	638	639	630	629	159	4	40.0			
459	Setto	639	640	631	630	159	4	40.0			
460	Setto	640	641	632	631	159	4	40.0			
461	Setto	641	642	633	632	159	4	40.0			
462	Setto	642	316	199	633	159	4	40.0			
463	Setto	116	643	634	321	159	4	40.0			
464	Setto	643	644	635	634	159	4	40.0			
465	Setto	644	645	636	635	159	4	40.0			
466	Setto	645	646	637	636	159	4	40.0			
467	Setto	646	647	638	637	159	4	40.0			
468	Setto	647	648	639	638	159	4	40.0			
469	Setto	648	649	640	639	159	4	40.0			
470	Setto	649	650	641	640	159	4	40.0			
471	Setto	650	651	642	641	159	4	40.0			
472	Setto	651	115	316	642	159	4	40.0			
473	Setto	510	652	653	93	159	4	40.0			
474	Setto	652	654	655	653	159	4	40.0			
475	Setto	654	656	657	655	159	4	40.0			
476	Setto	656	658	659	657	159	4	40.0			
477	Setto	658	660	661	659	159	4	40.0			
478	Setto	660	662	663	661	159	4	40.0			
479	Setto	662	664	665	663	159	4	40.0			
480	Setto	664	666	667	665	159	4	40.0			
481	Setto	666	668	669	667	159	4	40.0			
482	Setto	668	494	11	669	159	4	40.0			
483	Setto	199	670	652	510	159	4	40.0			
484	Setto	670	671	654	652	159	4	40.0			
485	Setto	671	672	656	654	159	4	40.0			
486	Setto	672	673	658	656	159	4	40.0			
487	Setto	673	674	660	658	159	4	40.0			
488	Setto	674	675	662	660	159	4	40.0			
489	Setto	675	676	664	662	159	4	40.0			
490	Setto	676	677	666	664	159	4	40.0			
491	Setto	677	678	668	666	159	4	40.0			
492	Setto	678	192	494	668	159	4	40.0			
493	Setto	316	679	670	199	159	4	40.0			
494	Setto	679	680	671	670	159	4	40.0			
495	Setto	680	681	672	671	159	4	40.0			
496	Setto	681	682	673	672	159	4	40.0			
497	Setto	682	683	674	673	159	4	40.0			
498	Setto	683	684	675	674	159	4	40.0			
499	Setto	684	685	676	675	159	4	40.0			
500	Setto	685	686	677	676	159	4	40.0			
501	Setto	686	687	678	677	159	4	40.0			
502	Setto	687	306	192	678	159	4	40.0			
503	Setto	115	688	679	316	159	4	40.0			
504	Setto	688	689	680	679	159	4	40.0			
505	Setto	689	690	681	680	159	4	40.0			
506	Setto	690	691	682	681	159	4	40.0			
507	Setto	691	692	683	682	159	4	40.0			
508	Setto	692	693	684	683	159	4	40.0			
509	Setto	693	694	685	684	159	4	40.0			
510	Setto	694	695	686	685	159	4	40.0			
511	Setto	695	696	687	686	159	4	40.0			
512	Setto	696	114	306	687	159	4	40.0			
513	Setto	494	697	698	11	159	4	40.0			
514	Setto	697	699	700	698	159	4	40.0			
515	Setto	699	701	702	700	159	4	40.0			



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
516	Setto	701	703	704	702	159	4	40.0			
517	Setto	703	705	706	704	159	4	40.0			
518	Setto	705	707	708	706	159	4	40.0			
519	Setto	707	709	710	708	159	4	40.0			
520	Setto	709	711	712	710	159	4	40.0			
521	Setto	331	726	727	72	159	4	40.0			
522	Setto	726	724	718	727	159	4	40.0			
523	Setto	120	728	726	331	159	4	40.0			
524	Setto	728	720	724	726	159	4	40.0			
525	Setto	211	729	728	120	159	4	40.0			
526	Setto	729	722	720	728	159	4	40.0			
527	Setto	103	730	729	211	159	4	40.0			
528	Setto	730	719	722	729	159	4	40.0			
529	Setto	478	731	730	103	159	4	40.0			
530	Setto	731	725	719	730	159	4	40.0			
531	Setto	185	732	731	478	159	4	40.0			
532	Setto	732	721	725	731	159	4	40.0			
533	Setto	296	733	732	185	159	4	40.0			
534	Setto	733	723	721	732	159	4	40.0			
535	Setto	5	734	733	296	159	4	40.0			
536	Setto	734	298	723	733	159	4	40.0			
537	Setto	724	751	752	718	159	4	40.0			
538	Setto	751	741	735	752	159	4	40.0			
539	Setto	720	753	751	724	159	4	40.0			
540	Setto	753	737	741	751	159	4	40.0			
541	Setto	722	754	753	720	159	4	40.0			
542	Setto	754	739	737	753	159	4	40.0			
543	Setto	719	755	754	722	159	4	40.0			
544	Setto	755	736	739	754	159	4	40.0			
545	Setto	725	756	755	719	159	4	40.0			
546	Setto	756	742	736	755	159	4	40.0			
547	Setto	721	757	756	725	159	4	40.0			
548	Setto	757	738	742	756	159	4	40.0			
549	Setto	723	758	757	721	159	4	40.0			
550	Setto	758	740	738	757	159	4	40.0			
551	Setto	298	759	758	723	159	4	40.0			
552	Setto	759	187	740	758	159	4	40.0			
553	Setto	14	779	778	266	159	4	40.0			
554	Setto	779	781	780	778	159	4	40.0			
555	Setto	781	268	267	780	159	4	40.0			
556	Setto	266	778	782	160	159	4	40.0			
557	Setto	778	780	783	782	159	4	40.0			
558	Setto	780	267	269	783	159	4	40.0			
559	Setto	160	782	784	416	159	4	40.0			
560	Setto	782	783	785	784	159	4	40.0			
561	Setto	783	269	426	785	159	4	40.0			
562	Setto	416	784	786	119	159	4	40.0			
563	Setto	784	785	787	786	159	4	40.0			
564	Setto	785	426	273	787	159	4	40.0			
565	Setto	119	786	788	271	159	4	40.0			
566	Setto	786	787	789	788	159	4	40.0			
567	Setto	787	273	272	789	159	4	40.0			
568	Setto	271	788	790	164	159	4	40.0			
569	Setto	788	789	791	790	159	4	40.0			
570	Setto	789	272	274	791	159	4	40.0			
571	Setto	164	790	792	425	159	4	40.0			
572	Setto	790	791	793	792	159	4	40.0			
573	Setto	791	274	435	793	159	4	40.0			
574	Setto	425	792	794	49	159	4	40.0			
575	Setto	792	793	795	794	159	4	40.0			
576	Setto	793	435	436	795	159	4	40.0			
577	Setto	268	797	796	267	159	4	40.0			
578	Setto	797	799	798	796	159	4	40.0			
579	Setto	799	166	270	798	159	4	40.0			
580	Setto	267	796	800	269	159	4	40.0			
581	Setto	796	798	801	800	159	4	40.0			
582	Setto	798	270	165	801	159	4	40.0			
583	Setto	269	800	802	426	159	4	40.0			
584	Setto	800	801	803	802	159	4	40.0			
585	Setto	801	165	427	803	159	4	40.0			
586	Setto	426	802	804	273	159	4	40.0			
587	Setto	802	803	805	804	159	4	40.0			
588	Setto	803	427	167	805	159	4	40.0			
589	Setto	273	804	806	272	159	4	40.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
590	Setto	804	805	807	806	159	4	40.0			
591	Setto	805	167	275	807	159	4	40.0			
592	Setto	272	806	808	274	159	4	40.0			
593	Setto	806	807	809	808	159	4	40.0			
594	Setto	807	275	169	809	159	4	40.0			
595	Setto	274	808	810	435	159	4	40.0			
596	Setto	808	809	811	810	159	4	40.0			
597	Setto	809	169	437	811	159	4	40.0			
598	Setto	435	810	812	436	159	4	40.0			
599	Setto	810	811	813	812	159	4	40.0			
600	Setto	811	437	170	813	159	4	40.0			
601	Setto	166	815	814	270	159	4	40.0			
602	Setto	815	817	816	814	159	4	40.0			
603	Setto	817	429	428	816	159	4	40.0			
604	Setto	270	814	818	165	159	4	40.0			
605	Setto	814	816	819	818	159	4	40.0			
606	Setto	816	428	430	819	159	4	40.0			
607	Setto	165	818	820	427	159	4	40.0			
608	Setto	818	819	821	820	159	4	40.0			
609	Setto	819	430	432	821	159	4	40.0			
610	Setto	427	820	822	167	159	4	40.0			
611	Setto	820	821	823	822	159	4	40.0			
612	Setto	821	432	433	823	159	4	40.0			
613	Setto	167	822	824	275	159	4	40.0			
614	Setto	822	823	825	824	159	4	40.0			
615	Setto	823	433	438	825	159	4	40.0			
616	Setto	275	824	826	169	159	4	40.0			
617	Setto	824	825	827	826	159	4	40.0			
618	Setto	825	438	439	827	159	4	40.0			
619	Setto	169	826	828	437	159	4	40.0			
620	Setto	826	827	829	828	159	4	40.0			
621	Setto	827	439	441	829	159	4	40.0			
622	Setto	437	828	830	170	159	4	40.0			
623	Setto	828	829	831	830	159	4	40.0			
624	Setto	829	441	442	831	159	4	40.0			
625	Setto	429	833	832	428	159	4	40.0			
626	Setto	833	835	834	832	159	4	40.0			
627	Setto	835	58	431	834	159	4	40.0			
628	Setto	428	832	836	430	159	4	40.0			
629	Setto	832	834	837	836	159	4	40.0			
630	Setto	834	431	168	837	159	4	40.0			
631	Setto	430	836	838	432	159	4	40.0			
632	Setto	836	837	839	838	159	4	40.0			
633	Setto	837	168	434	839	159	4	40.0			
634	Setto	432	838	840	433	159	4	40.0			
635	Setto	838	839	841	840	159	4	40.0			
636	Setto	839	434	112	841	159	4	40.0			
637	Setto	433	840	842	438	159	4	40.0			
638	Setto	840	841	843	842	159	4	40.0			

## MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

### LEGENDA TABELLA DATI SOLAI-PANNELLI

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).

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

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

<b>Elem.</b>	numero identificativo dell'elemento
<b>Stato</b>	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
<b>Note</b>	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
<b>Pos.</b>	Ascissa del punto di verifica
<b>F ist, F infi</b>	Frecce istantanee e a tempo infinito
<b>Momento</b>	Momento flettente
<b>Taglio</b>	Sollecitazione di taglio
<b>Af inf.</b>	Area di armatura longitudinale posta all'intradosso della trave
<b>Af sup.</b>	Area di armatura longitudinale posta all'estradosso della trave
<b>AfV</b>	Area dell'armatura atta ad assorbire le azioni di taglio
<b>Beff</b>	Base della sezione di cls per l'assorbimento del taglio
<b>x/d</b>	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
<b>verif.</b>	rapporto Sd/Su con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
<b>Verif.V</b>	rapporto Sd/Su con sollecitazioni taglianti proporzionali valore minore o uguale a 1 per verifica positiva
<b>rRfck</b>	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
<b>rFfck</b>	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni freq. [normalizzato a 1]
<b>rPfck</b>	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi perm. [normalizzato a 1]
<b>rRfyk</b>	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
<b>rFyk</b>	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
<b>rPfyk</b>	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni quasi permanenti [normalizzato a 1]
<b>wR</b>	apertura caratteristica delle fessure in combinazioni rare [mm]
<b>wF</b>	apertura caratteristica delle fessure in combinazioni frequenti [mm]
<b>wP</b>	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 cinematisimo 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:

<b>Elem.</b>	Numero identificativo dell'elemento
<b>Stato</b>	Codice di verifica
<b>Ver. c.c.</b>	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzeria
<b>Ver. c.d.</b>	Verifica nell'ipotesi di trave appoggiata con carico distribuito
<b>Ver. c.cin.</b>	Verifica nell'ipotesi di cinematismo con formazione di cerniere plastiche in appoggio e mezzeria
<b>Ver. CIS</b>	Rapporto pa/pr (valore minore o uguale a 1 per verifica positiva)
<b>Z</b>	Quota del baricentro dell'elemento
<b>T1</b>	Periodo proprio dell'edificio nella direzione di interesse (ortogonale al pannello)
<b>Ta</b>	Periodo proprio della parete
<b>Sa</b>	Accelerazione massima, adimensionalizzata allo SLV
<b>pa</b>	Pressione sulla parete causata dall'azione sismica
<b>pr</b>	Pressione resistente del meccanismo ad arco
<b>Drift</b>	Spostamento relativo interpiano allo SLV valutato secondo il D.M. 14.01.2018 - § 7.3.3.3
<b>Beta a</b>	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
		kN/ m2	kN/ m2	kN/ m2							
1	Variab.	2.25	4.50	3.00		1.00	0.70	0.70	0.60	0.60	1.00
2	Neve	2.50	3.10	0.50		1.00	0.50	0.20	0.0	0.0	1.00
3	Variab.	2.25	2.90	3.00		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..
						kN/ m2	kN/ m2	kN/ m2					
1	CM	3	m=160	5.0	0.0	2.25	2.90	3.00	71	6	1	64	61
									55	101			
2	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	77	60	31	75	
3	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	100	77	75	92	
4	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	62	98	70	56	
5	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	47	62	56	19	
6	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	49	81	35	3	
7	CM	3	m=160	5.0	90.0	2.25	2.90	3.00	64	43	41	61	
8	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	44	68	96	43	
9	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	46	76	68	44	
10	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	78	3	76	46	
11	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	43	96	87	41	
12	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	96	15	12	87	
13	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	68	20	15	96	
14	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	76	34	20	68	
15	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	3	35	34	76	
16	CM	3	m=163	5.0	0.0	2.25	2.90	3.00	94	18	37	36	24
									99	82			
17	CM	3	m=163	5.0	90.0	2.25	2.90	3.00	37	69	59	36	
18	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	74	45	22	69	
19	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	79	91	45	74	
20	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	92	75	91	79	
21	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	69	22	84	59	
22	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	22	23	26	84	
23	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	45	28	23	22	
24	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	91	32	28	45	

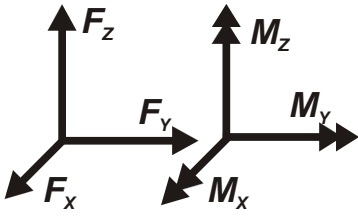
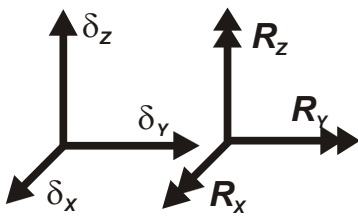
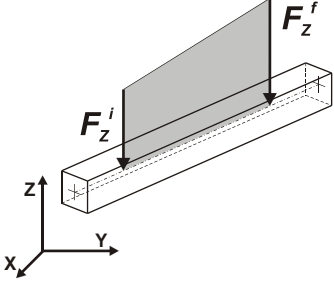
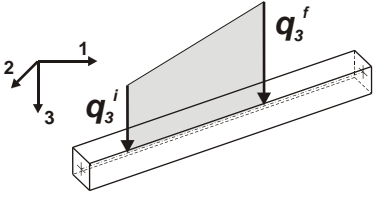
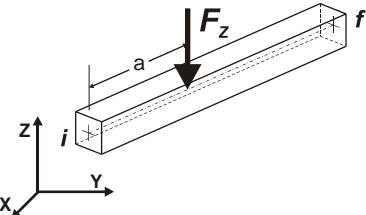
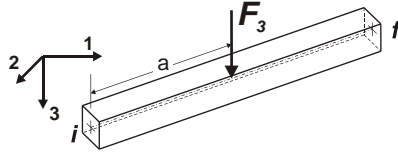
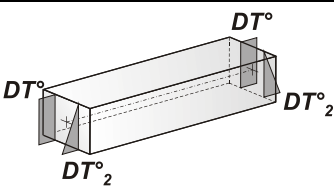
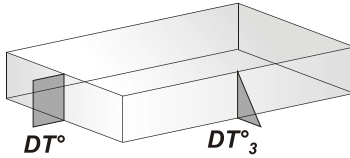
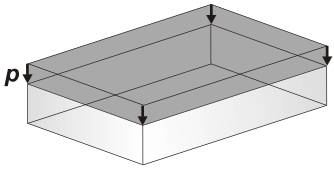
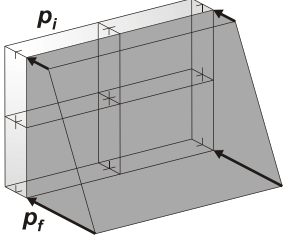
Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
25	CM	1	m=163	5.0	90.0	2.25	4.50	3.00	75	31	32	91	
26	CM	2	m=165	5.0	0.0	2.50	3.10	0.50	7	88	27	90	38
									85	30			
27	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	27	8	16	90	
28	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	10	52	51	8	
29	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	13	54	52	10	
30	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	19	56	54	13	
31	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	8	51	50	16	
32	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	51	65	63	50	
33	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	52	66	65	51	
34	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	54	67	66	52	
35	CM	2	m=165	5.0	90.0	2.50	3.10	0.50	56	70	67	54	
36	CM	1	m=160	5.0	90.0	2.25	4.50	3.00	80	49	3	78	
37	PM		m=110	10.0	90.0				69	8	27	37	
38	PM		m=110	10.0	90.0				28	66	67	32	
39	PM		m=110	10.0	90.0				37	27	88	18	
40	PM		m=110	10.0	90.0				43	69	37	64	
41	PM		m=110	30.0	90.0				60	98	62	77	
42	PM		m=110	30.0	90.0				81	60	77	49	
43	PM		m=110	10.0	90.0				26	63	65	23	
44	PM		m=110	10.0	90.0				92	19	47	100	
45	PM		m=110	30.0	90.0				41	59	36	61	
46	PM		m=110	10.0	90.0				23	65	66	28	
47	PM		m=110	10.0	90.0				43	69	74	44	
48	PM		m=110	10.0	90.0				44	74	79	46	
49	PM		m=110	10.0	90.0				46	79	92	78	
50	PM		m=110	10.0	90.0				79	13	19	92	
51	PM		m=110	30.0	90.0				55	24	36	61	
52	PM		m=110	30.0	90.0				87	84	59	41	
53	PM		m=110	30.0	90.0				84	50	16	59	
54	PM		m=110	10.0	90.0				32	67	70	31	
55	PM		m=110	10.0	90.0				31	70	98	60	
56	PM		m=110	10.0	90.0				74	10	13	79	
57	PM		m=110	10.0	90.0				12	26	23	15	
58	PM		m=110	10.0	90.0				15	23	28	20	
59	PM		m=110	10.0	90.0				20	28	32	34	
60	PM		m=110	10.0	90.0				34	32	31	35	
61	PM		m=110	10.0	90.0				78	92	100	80	
62	PM		m=110	10.0	90.0				69	8	10	74	
63	PM		m=110	25.0	90.0				82	30	7	94	
64	PM		m=110	10.0	90.0				35	31	60	81	
65	PM		m=110	30.0	90.0				18	88	7	94	
66	PM		m=110	30.0	90.0				59	16	90	36	
67	PM		m=110	30.0	90.0				24	38	90	36	
68	PM		m=110	30.0	90.0				1	18	94	53	
69	PM		m=110	25.0	90.0				5	82	845	768	
70	PM		m=110	30.0	90.0				12	26	84	87	
71	PM		m=110	30.0	90.0				26	63	50	84	

## MODELLAZIONE DELLE AZIONI

### LEGENDA TABELLA DATI AZIONI

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

<b>1</b>	<b>carico concentrato nodale</b> 6 dati (forza $F_x$ , $F_y$ , $F_z$ , momento $M_x$ , $M_y$ , $M_z$ )
<b>2</b>	<b>spostamento nodale impresso</b> 6 dati (spostamento $T_x$ , $T_y$ , $T_z$ , rotazione $R_x$ , $R_y$ , $R_z$ )
<b>3</b>	<b>carico distribuito globale su elemento tipo trave</b> 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)
<b>4</b>	<b>carico distribuito locale su elemento tipo trave</b> 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)
<b>5</b>	<b>carico concentrato globale su elemento tipo trave</b> 7 dati ( $F_x$ , $F_y$ , $F_z$ , $M_x$ , $M_y$ , $M_z$ , ascissa di carico)
<b>6</b>	<b>carico concentrato locale su elemento tipo trave</b> 7 dati ( $F_1$ , $F_2$ , $F_3$ , $M_1$ , $M_2$ , $M_3$ , ascissa di carico)
<b>7</b>	<b>variazione termica applicata ad elemento tipo trave</b> 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
<b>8</b>	<b>carico di pressione uniforme su elemento tipo piastra</b> 1 dato (pressione)
<b>9</b>	<b>carico di pressione variabile su elemento tipo piastra</b> 4 dati (pressione, quota, pressione, quota)
<b>10</b>	<b>variazione termica applicata ad elemento tipo piastra</b> 2 dati (variazioni termiche: media e differenza nello spessore)
<b>11</b>	<b>carico variabile generale su elementi tipo trave e piastra</b> 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
<b>12</b>	<b>gruppo di carichi con impronta su piastra</b> 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
		m	kN/ m	kN/ m	kN/ m	kN	kN	kN
1	Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82	0.0	0.0	0.0	-20.82	0.0	0.0	0.0
		0.0	0.0	0.0	-20.82	0.0	0.0	0.0
2	Lapilli Vulcanici 2-DG:Fzi=-9.80 Fzf=-9.80	0.0	0.0	0.0	-9.80	0.0	0.0	0.0
		0.0	0.0	0.0	-9.80	0.0	0.0	0.0

**Tipo carico di pressione uniforme su piastra**

Id	Tipo	pressione
		kN/ m2
5	ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02	6.00
6	ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02	-6.00



**Tipo** carico di pressione variabile su piastra

Id	Tipo	pressione quota		pressione quota	
		kN/ m2	m	kN/ m2	m
4	spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00	0.0	0.0	-12.50	-1.50
7	spinta terreno a riposo 2-PL3:pi=0.0 qi=0.0 pf=0.12 qf=-150.00	0.0	0.0	12.50	-1.50

## SCHEMATIZZAZIONE DEI CASI DI CARICO

### LEGENDA TABELLA CASI DI CARICO

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

Sono previsti i seguenti 11 tipi di casi di carico:

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

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

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

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

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

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

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

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

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

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

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Gsk	CDC=G2pk (permanente pannelli n.c.d.)	
5	Qsk	CDC=Qsk (variabile solai)	
6	Qnk	CDC=Qnk (carico da neve)	
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)

CDC	Tipo	Sigla Id	Note
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=G2pk (permanente pannelli n.c.d.)
			partecipazione:1.00 per 5 CDC=Qsk (variabile solai)
			partecipazione:0.80 per 15 CDC=Qk (Eccezionale)
8	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=G2pk (permanente pannelli n.c.d.)
			partecipazione:1.00 per 5 CDC=Qsk (variabile solai)
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
14	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
15	Qk	CDC=Qk (Eccezionale)	Azioni applicate: D2 :da 13 a 14 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 15 Azione : Lapilli Vulcanici 2-DG:Fzi=-9.80 Fzf=-9.80 D2 :da 37 a 38 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 39 Azione : Lapilli Vulcanici 2-DG:Fzi=-9.80 Fzf=-9.80 D2 : 53 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 55 Azione : Lapilli Vulcanici 2-DG:Fzi=-9.80 Fzf=-9.80 D2 : 63 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 65 Azione : Lapilli Vulcanici 2-DG:Fzi=-9.80 Fzf=-9.80 D2 :da 73 a 74 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 91 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 91 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 106 Azione : Lapilli Vulcanici 2-DG:Fzi=-9.80 Fzf=-9.80 D2 : 107 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 107 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 :da 123 a 124 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 :da 123 a 124 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 140 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 144 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 144 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82 D2 : 156 Azione : Lapilli Vulcanici -DG:Fzi=-20.82 Fzf=-20.82
16	Gk	CDC=G1k (spinta a riposo)	Azioni applicate: D3 : 1 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 2 a 5 Azione : spinta terreno a riposo 2-PL3:pi=0.0 qi=0.0 pf=0.12 qf=-150.00 D3 :da 7 a 9 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 12 a 13 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 18 a 20 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 22 a 27 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 28 a 39 Azione : spinta terreno a riposo 2-PL3:pi=0.0 qi=0.0 pf=0.12 qf=-150.00 D3 :da 43 a 51 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 58 a 62 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 76 a 84 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 88 a 99 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 100 a 111 Azione : spinta terreno a riposo 2-PL3:pi=0.0 qi=0.0 pf=0.12 qf=-150.00 D3 :da 115 a 123 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 148 a 156 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 160 a 177 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 178 a 213 Azione : spinta terreno a riposo 2-PL3:pi=0.0 qi=0.0 pf=0.12 qf=-150.00 D3 :da 223 a 249 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 270 a 275 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 : 277 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00 D3 :da 322 a 348 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00

CDC	Tipo	Sigla Id	Note
			D3 :da 358 a 528 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00
			D3 :da 537 a 544 Azione : spinta terreno a riposo-PL3:pi=0.0 qi=0.0 pf=-0.12 qf=-150.00
17	Qk	CDC=Qk (spinta sismica)	Azioni applicate:
			D3 :da 1 a 5 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 7 a 9 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p=6.000e-02
			D3 :da 12 a 13 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p=6.000e-02
			D3 :da 18 a 19 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 : 20 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 22 a 23 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p=6.000e-02
			D3 :da 24 a 39 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 43 a 51 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p=6.000e-02
			D3 :da 58 a 62 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p=6.000e-02
			D3 :da 76 a 81 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 82 a 84 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p=6.000e-02
			D3 :da 88 a 93 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p=6.000e-02
			D3 :da 94 a 111 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 115 a 123 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 148 a 153 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 154 a 156 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 160 a 165 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 166 a 213 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 223 a 249 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 270 a 275 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 : 277 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 322 a 339 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 340 a 348 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 358 a 375 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 376 a 384 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 385 a 432 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 433 a 520 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood) 2-P3:p=-6.000e-02
			D3 :da 521 a 528 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02
			D3 :da 537 a 544 Azione : ETK PAN ++ sovraspinta sismica terreno (Wood)-P3:p= 6.000e-02

## DEFINIZIONE DELLE COMBINAZIONI

### LEGENDA TABELLA COMBINAZIONI DI CARICO

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

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

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

**Combinazione fondamentale SLU**

$$\gamma G_1 \cdot G_1 + \gamma G_2 \cdot G_2 + \gamma P \cdot P + \gamma Q_1 \cdot Q_{k1} + \gamma Q_2 \cdot \psi_{02} \cdot Q_{k2} + \gamma Q_3 \cdot \psi_{03} \cdot Q_{k3} + \dots$$

**Combinazione caratteristica (rara) SLE**

$$G_1 + G_2 + P + Q_{k1} + \psi_{02} \cdot Q_{k2} + \psi_{03} \cdot Q_{k3} + \dots$$

**Combinazione frequente SLE**

$$G_1 + G_2 + P + \psi_{11} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

**Combinazione quasi permanente SLE**

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

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

$$E + G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

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

$$G_1 + G_2 + A_d + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Dove:

NTC 2018 Tabella 2.5.1

Destinazione d'uso/azione	$\psi_0$	$\psi_1$	$\psi_2$
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini, ...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli $\leq 30kN$ )	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli $> 30kN$ )	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota $\leq 1000$ m	0,50	0,20	0,00
Neve a quota $> 1000$ m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

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

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

NTC 2018 Tabella 2.6.1

Coefficiente	<b>EQU</b>	<b>A1</b>	<b>A2</b>
$\gamma_f$			

<i>Carichi permanenti</i>	<i>Favorevoli</i>	$\gamma_{G1}$	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>	$\gamma_{G2}$	0,8	0,8	0,8
	<i>Sfavorevoli</i>		1,5	1,5	1,3
<i>Carichi variabili</i>	<i>Favorevoli</i>	$\gamma_{Qi}$	0,0	0,0	0,0
	<i>Sfavorevoli</i>		1,5	1,5	1,3

<b>Cmb</b>	<b>Tipo</b>	<b>Sigla Id</b>	<b>effetto P-delta</b>
1	SLU(ecc.)	Comb. SLU (Eccez.) 1	
2	SLU(ecc.)	Comb. SLU (Eccez.) 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 9	
10	SLU	Comb. SLU A1 10	
11	SLU	Comb. SLU A1 11	
12	SLU	Comb. SLU A1 12	
13	SLU	Comb. SLU A1 13	
14	SLU	Comb. SLU A1 14	
15	SLU	Comb. SLU A1 15	
16	SLU	Comb. SLU A1 16	
17	SLU	Comb. SLU A1 17	
18	SLU	Comb. SLU A1 18	
19	SLU	Comb. SLU A1 19	
20	SLU	Comb. SLU A1 20	
21	SLU	Comb. SLU A1 21	
22	SLU	Comb. SLU A1 22	
23	SLU	Comb. SLU A1 23	
24	SLU	Comb. SLU A1 24	
25	SLU	Comb. SLU A1 25	
26	SLU	Comb. SLU A1 26	
27	SLU	Comb. SLU A1 27	
28	SLU	Comb. SLU A1 28	
29	SLU	Comb. SLU A1 29	
30	SLU	Comb. SLU A1 30	
31	SLU	Comb. SLU A1 31	
32	SLU	Comb. SLU A1 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLU	Comb. SLU A1 (SLV sism.) 37	
38	SLU	Comb. SLU A1 (SLV sism.) 38	
39	SLU	Comb. SLU A1 (SLV sism.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLU	Comb. SLU A1 (SLV sism.) 41	
42	SLU	Comb. SLU A1 (SLV sism.) 42	
43	SLU	Comb. SLU A1 (SLV sism.) 43	
44	SLU	Comb. SLU A1 (SLV sism.) 44	
45	SLU	Comb. SLU A1 (SLV sism.) 45	
46	SLU	Comb. SLU A1 (SLV sism.) 46	
47	SLU	Comb. SLU A1 (SLV sism.) 47	
48	SLU	Comb. SLU A1 (SLV sism.) 48	
49	SLU	Comb. SLU A1 (SLV sism.) 49	
50	SLU	Comb. SLU A1 (SLV sism.) 50	
51	SLU	Comb. SLU A1 (SLV sism.) 51	
52	SLU	Comb. SLU A1 (SLV sism.) 52	
53	SLU	Comb. SLU A1 (SLV sism.) 53	
54	SLU	Comb. SLU A1 (SLV sism.) 54	
55	SLU	Comb. SLU A1 (SLV sism.) 55	
56	SLU	Comb. SLU A1 (SLV sism.) 56	
57	SLU	Comb. SLU A1 (SLV sism.) 57	
58	SLU	Comb. SLU A1 (SLV sism.) 58	
59	SLU	Comb. SLU A1 (SLV sism.) 59	
60	SLU	Comb. SLU A1 (SLV sism.) 60	







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...
54	1.00	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
55	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
56	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
57	1.00	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
58	1.00	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
59	1.00	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
60	1.00	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
61	1.00	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
62	1.00	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
63	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
64	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	1.00	0.60											
65	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0
	0.0	1.00	0.60											
66	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0
	0.0	1.00	0.60											
67	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0
	0.0	1.00	0.60											
68	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0
	0.0	1.00	0.60											
69	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30
	0.0	1.00	0.60											
70	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30
	0.0	1.00	0.60											
71	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30
	0.0	1.00	0.60											
72	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30
	0.0	1.00	0.60											
73	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0
	0.0	1.00	0.60											
74	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0
	0.0	1.00	0.60											
75	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0
	0.0	1.00	0.60											
76	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0
	0.0	1.00	0.60											
77	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30
	0.0	1.00	0.60											
78	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30
	0.0	1.00	0.60											
79	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30
	0.0	1.00	0.60											
80	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30
	0.0	1.00	0.60											
81	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0
	0.0	1.00	0.60											
82	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0
	0.0	1.00	0.60											
83	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0
	0.0	1.00	0.60											
84	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0
	0.0	1.00	0.60											
85	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0
	0.0	1.00	0.60											
86	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0
	0.0	1.00	0.60											
87	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0
	0.0	1.00	0.60											
88	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0
	0.0	1.00	0.60											
89	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00
	0.0	1.00	0.60											
90	1.00	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00



## AZIONE SISMICA

### VALUTAZIONE DELL' AZIONE SISMICA

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

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

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

$a_g$ : accelerazione orizzontale massima del terreno;

$F_o$ : 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	E	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)

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

$F_v$  è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno  $a_g$  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	$1,00 \leq 1,40 - 0,40 \cdot F_a \cdot \frac{a_g}{g} \leq 1,20$	$1,10 \cdot (T_c^*)^{-0,28}$
C	$1,00 \leq 1,70 - 0,60 \cdot F_a \cdot \frac{a_g}{g} \leq 1,50$	$1,05 \cdot (T_c^*)^{-0,30}$
D	$0,90 \leq 2,40 - 1,50 \cdot F_a \cdot \frac{a_g}{g} \leq 1,80$	$1,25 \cdot (T_c^*)^{-0,38}$
E	$1,00 \leq 2,00 - 1,10 \cdot F_a \cdot \frac{a_g}{g} \leq 1,60$	$1,15 \cdot (T_c^*)^{-0,46}$

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:

$$0 < T < T_B \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left[ \frac{T}{T_B} + \frac{1}{\eta \cdot F_v} \left( 1 - \frac{T}{T_B} \right) \right]$$

$$T_B \leq T < T_C \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v$$

$$T_C \leq T < T_D \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left( \frac{T_C}{T} \right)$$

$$T_D \leq T \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left( \frac{T_C \cdot T_D}{T^2} \right)$$

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.	14.530	40.754	
33648	14.480	40.731	5.063
33649	14.546	40.730	3.010
33427	14.547	40.780	3.119
33426	14.480	40.781	5.226

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	45.2	0.051	2.356	0.313
SLD	63.0	75.4	0.065	2.394	0.332
SLV	10.0	711.8	0.154	2.479	0.378
SLC	5.0	1462.2	0.192	2.527	0.388

<b>SL</b>	<b>ag</b>	<b>S</b>	<b>Fo</b>	<b>Fv</b>	<b>Tb</b>	<b>Tc</b>	<b>Td</b>
	g				sec	sec	sec
SLO	0.051	1.600	2.356	0.719	0.191	0.573	1.804
SLD	0.065	1.600	2.394	0.823	0.198	0.593	1.859
SLV	0.154	1.580	2.479	1.313	0.214	0.641	2.216
SLC	0.192	1.467	2.527	1.493	0.217	0.652	2.366

## RISULTATI ANALISI SISMICHE

### LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

**9. Esk** caso di carico sismico con analisi statica equivalente

**10. Edk** caso di carico sismico con analisi dinamica

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

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

Angolo di ingresso	di	Angolo di ingresso dell'azione sismica orizzontale
Fattore di 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 $q/q_{ND}$ 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 di riduzione SLD	riduz.	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	proprio	Periodo proprio di vibrazione della struttura
Coefficiente Lambda		Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	spettro	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	spettro	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata spettro S (Tb-Tc)	spettro	Valore dell'ordinata dello spettro in uso nel tratto costante
N° di modi 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  $q_{ND}$  ricavato come da 7.3.2 in funzione del fattore di comportamento  $q$  utilizzato per la struttura:  $1 < q_{ND} = 2/3 * q < 1.5$

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  $\epsilon_T$  (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  $\epsilon_T$ ,  $\epsilon_{tP}$  e  $\epsilon_{tD}$  degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità  $1000 \cdot \epsilon_T/h$  da confrontare direttamente con il valore 2 o 4 per la verifica.

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

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

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata
dE	Spostamento relativo tra le due facce 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
$\Gamma_m c(a,s,t)$	Deformazioni di taglio dell' elastomero
$V_{cr}$	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

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

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			verifica esistenti: fattore FC 1.200
			categoria suolo: E

CDC	Tipo	Sigla Id	Note
			fattore di sito S = 1.580
			ordinata spettro (tratto Tb-Tc) = 0.219 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.609 sec.
			fattore q: 2.760
			fattore q (fragili): 1.500
			fattore per spost. mu d: 2.854
			classe di duttilità CD: B
			numero di modi considerati: 45
			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
m	kN	m	m	m	m	m	m			
9.05	4216.67	11.02	2.70	0.0	-0.89	8.02	2.35	1.270	0.272	0.032
5.30	3455.93	10.53	2.67	0.0	-0.89	8.02	2.35	1.270	0.227	0.030
1.60	3125.06	11.10	3.03	0.0	-0.89	13.40	-2.32	1.493	0.202	0.156
1.21	126.19	14.36	-0.27	0.0	-0.89	13.40	-2.36	1.493	0.084	0.061
0.83	126.19	14.36	-0.27	0.0	-0.89	13.40	-2.36	1.493	0.084	0.061
0.44	126.19	14.36	-0.27	0.0	-0.89	13.40	-2.36	1.493	0.084	0.061
0.05	274.62	12.81	2.19	0.0	-0.89	13.40	5.13	0.290	0.027	0.584
Risulta	1.145e+04									

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	kN		kN		kN			
1	1.231	0.813	0.172	54.95	0.5	5485.62	47.9	6.03e-03	5.27e-05	29.9	149.5
2	1.643	0.609	0.219	6753.27	59.0	275.01	2.4	3.28e-03	2.86e-05	53.3	266.4
3	1.916	0.522	0.219	480.37	4.2	1333.16	11.6	2.31e-04	2.02e-06	72.5	362.3
4	4.022	0.249	0.219	7.60	6.64e-02	724.17	6.3	3.95e-03	3.45e-05	319.3	1596.4
5	4.959	0.202	0.220	682.80	6.0	32.48	0.3	0.01	1.14e-04	485.3	2426.7
6	5.514	0.181	0.222	54.93	0.5	26.23	0.2	0.01	1.03e-04	600.2	3000.9
7	5.653	0.177	0.223	15.24	0.1	97.19	0.8	3.37e-03	2.94e-05	630.9	3154.3
8	7.282	0.137	0.227	1.48	1.29e-02	1.79e-03	1.57e-05	4.15e-03	3.63e-05	1046.8	5234.0
9	11.492	0.087	0.233	9.43e-04	8.23e-06	1.22e-04	1.07e-06	1848.74	16.1	2606.9	1.303e+04
10	11.849	0.084	0.234	5.10e-04	4.46e-06	4.29e-05	0.0	24.64	0.2	2771.5	1.386e+04
11	13.267	0.075	0.235	173.58	1.5	1518.62	13.3	0.08	7.10e-04	3474.1	1.737e+04
12	13.692	0.073	0.235	0.34	2.94e-03	0.31	2.69e-03	717.84	6.3	3700.8	1.850e+04
13	13.922	0.072	0.235	2.27	1.98e-02	1.16	1.01e-02	416.82	3.6	3825.9	1.913e+04
14	13.937	0.072	0.235	44.69	0.4	57.47	0.5	1.61	1.41e-02	3833.9	1.917e+04
15	13.964	0.072	0.235	854.22	7.5	400.26	3.5	2.14	1.87e-02	3849.1	1.925e+04
16	14.562	0.069	0.235	1.17	1.02e-02	2.35	2.05e-02	87.68	0.8	4186.0	2.093e+04
17	14.624	0.068	0.235	18.92	0.2	2.42	2.11e-02	199.60	1.7	4221.2	2.111e+04
18	14.996	0.067	0.236	16.13	0.1	24.87	0.2	9.24	8.07e-02	4439.2	2.220e+04
19	15.490	0.065	0.236	5.73e-06	0.0	0.06	5.64e-04	1164.19	10.2	4736.4	2.368e+04
20	15.908	0.063	0.236	0.18	1.60e-03	0.05	4.28e-04	17.78	0.2	4995.0	2.498e+04
21	17.716	0.056	0.237	71.08	0.6	0.95	8.26e-03	215.24	1.9	6194.9	3.097e+04
22	17.941	0.056	0.237	1266.51	11.1	12.44	0.1	4.13	3.61e-02	6353.5	3.177e+04
23	18.166	0.055	0.237	0.01	9.03e-05	0.02	1.60e-04	928.41	8.1	6513.7	3.257e+04
24	19.178	0.052	0.237	36.49	0.3	1.43	1.25e-02	840.85	7.3	7259.9	3.630e+04
25	19.288	0.052	0.237	31.61	0.3	3.50	3.06e-02	2.81	2.45e-02	7343.7	3.672e+04
26	20.315	0.049	0.238	10.89	9.51e-02	0.23	1.97e-03	164.64	1.4	8146.3	4.073e+04
27	20.786	0.048	0.238	10.40	9.08e-02	6.27e-03	5.48e-05	240.55	2.1	8528.4	4.264e+04
28	22.924	0.044	0.238	0.09	8.11e-04	4.34	3.79e-02	382.06	3.3	1.037e+04	5.187e+04
29	23.662	0.042	0.238	6.73	5.87e-02	20.42	0.2	410.62	3.6	1.105e+04	5.526e+04
30	24.312	0.041	0.239	32.42	0.3	28.44	0.2	7.38	6.45e-02	1.167e+04	5.834e+04
31	26.466	0.038	0.239	54.96	0.5	2.09	1.82e-02	383.70	3.4	1.383e+04	6.913e+04
32	26.800	0.037	0.239	63.48	0.6	14.25	0.1	386.80	3.4	1.418e+04	7.089e+04
33	29.076	0.034	0.239	5.95	5.20e-02	292.81	2.6	41.27	0.4	1.669e+04	8.344e+04
34	31.291	0.032	0.240	52.34	0.5	192.37	1.7	41.73	0.4	1.933e+04	9.664e+04
35	33.024	0.030	0.240	36.61	0.3	2.15	1.87e-02	269.90	2.4	2.153e+04	1.076e+05
36	34.177	0.029	0.240	8.62	7.52e-02	32.61	0.3	232.97	2.0	2.306e+04	1.153e+05
37	39.104	0.026	0.240	33.90	0.3	83.79	0.7	18.50	0.2	3.018e+04	1.509e+05
38	43.059	0.023	0.241	40.24	0.4	15.40	0.1	147.92	1.3	3.660e+04	1.830e+05
39	45.414	0.022	0.241	8.70	7.60e-02	16.37	0.1	272.13	2.4	4.071e+04	2.036e+05
40	61.293	0.016	0.241	1.88	1.64e-02	109.20	1.0	48.40	0.4	7.416e+04	3.708e+05
41	65.685	0.015	0.242	0.50	4.36e-03	5.44	4.75e-02	592.66	5.2	8.517e+04	4.258e+05
42	73.488	0.014	0.242	215.55	1.9	5.87	5.13e-02	0.14	1.21e-03	1.066e+05	5.330e+05
43	98.621	0.010	0.242	3.33	2.90e-02	594.91	5.2	5.24e-04	4.57e-06	1.920e+05	9.599e+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
44	124.067	0.008	0.242	159.78	1.4	2.73	2.38e-02	211.04	1.8	3.038e+05	1.519e+06
45	142.386	0.007	0.243	22.57	0.2	0.01	1.27e-04	873.68	7.6	4.002e+05	2.001e+06
Risulta In percentuale				1.134e+04 99.00		1.142e+04 99.76		1.121e+04 97.88			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.200
			categoria suolo: E
			fattore di sito S = 1.580
			ordinata spettro (tratto Tb-Tc) = 0.219 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.493 sec.
			fattore q: 2.760
			fattore q (fragili): 1.500
			fattore per spost. mu d: 3.289
			classe di duttilità CD: B
			numero di modi considerati: 45
			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
m	kN	m	m	m	m	m	m			
9.05	2407.90	10.37	2.49	0.0	0.89	8.02	2.35	1.270	0.212	0.013
5.30	3455.93	10.53	2.67	0.0	0.89	8.02	2.35	1.270	0.227	0.030
1.60	3125.06	11.10	3.03	0.0	0.89	13.40	-2.32	1.493	0.202	0.156
1.21	126.19	14.36	-0.27	0.0	0.89	13.40	-2.36	1.493	0.084	0.061
0.83	126.19	14.36	-0.27	0.0	0.89	13.40	-2.36	1.493	0.084	0.061
0.44	126.19	14.36	-0.27	0.0	0.89	13.40	-2.36	1.493	0.084	0.061
0.05	274.62	12.81	2.19	0.0	0.89	13.40	5.13	0.290	0.027	0.584
Risulta	9642.07									

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	kN		kN		kN			
1	1.563	0.640	0.219	40.02	0.4	4280.26	44.4	6.18e-03	6.41e-05	48.2	241.1
2	2.029	0.493	0.219	5275.24	54.7	206.78	2.1	2.87e-03	2.98e-05	81.3	406.4
3	2.265	0.442	0.219	386.10	4.0	1022.99	10.6	6.65e-05	0.0	101.2	506.2
4	4.294	0.233	0.219	3.63	3.77e-02	544.11	5.6	2.36e-03	2.45e-05	364.0	1820.0
5	5.338	0.187	0.222	465.27	4.8	24.27	0.3	3.33e-03	3.46e-05	562.5	2812.7
6	6.023	0.166	0.224	42.35	0.4	86.59	0.9	7.74e-03	8.03e-05	716.0	3579.8
7	8.061	0.124	0.229	2.68	2.78e-02	0.75	7.80e-03	7.62e-03	7.90e-05	1282.8	6413.9
8	10.222	0.098	0.232	3.07	3.18e-02	1.05	1.09e-02	0.03	2.89e-04	2062.6	1.031e+04
9	13.332	0.075	0.235	1.92	1.99e-02	1863.00	19.3	0.09	9.73e-04	3508.3	1.754e+04
10	14.369	0.070	0.235	2.85e-03	2.96e-05	2.18e-03	2.26e-05	1462.64	15.2	4075.8	2.038e+04
11	14.615	0.068	0.235	0.80	8.28e-03	0.16	1.70e-03	89.81	0.9	4216.5	2.108e+04
12	14.799	0.068	0.236	3.85	3.99e-02	43.61	0.5	0.0	0.0	4322.8	2.161e+04
13	14.811	0.068	0.236	1.25e-04	1.30e-06	1.13e-03	1.17e-05	19.61	0.2	4330.2	2.165e+04
14	16.244	0.062	0.236	3.57	3.71e-02	6.16e-03	6.39e-05	100.79	1.0	5208.8	2.604e+04
15	16.917	0.059	0.236	2495.12	25.9	1.66	1.72e-02	45.91	0.5	5649.0	2.825e+04
16	17.104	0.058	0.237	41.52	0.4	0.06	6.11e-04	633.47	6.6	5774.4	2.887e+04
17	17.375	0.058	0.237	4.55	4.72e-02	8.38e-03	8.70e-05	388.83	4.0	5959.1	2.980e+04
18	17.589	0.057	0.237	93.46	1.0	10.38	0.1	20.89	0.2	6107.1	3.054e+04
19	18.088	0.055	0.237	1.66	1.72e-02	211.67	2.2	3.43	3.56e-02	6457.9	3.229e+04
20	18.321	0.055	0.237	0.23	2.37e-03	0.04	4.03e-04	984.07	10.2	6626.0	3.313e+04
21	18.464	0.054	0.237	0.80	8.35e-03	2.58	2.67e-02	0.05	5.36e-04	6729.5	3.365e+04
22	18.632	0.054	0.237	0.73	7.54e-03	0.40	4.17e-03	2.50	2.59e-02	6852.5	3.426e+04
23	19.153	0.052	0.237	0.29	3.05e-03	0.02	2.10e-04	5.67	5.88e-02	7241.3	3.621e+04
24	21.911	0.046	0.238	0.0	0.0	0.03	2.62e-04	773.53	8.0	9476.2	4.738e+04
25	22.006	0.045	0.238	5.51	5.72e-02	0.09	9.54e-04	33.77	0.4	9559.0	4.780e+04
26	22.954	0.044	0.238	4.36	4.52e-02	2.87	2.97e-02	335.79	3.5	1.040e+04	5.200e+04
27	23.304	0.043	0.238	5.27e-06	0.0	0.03	3.37e-04	604.93	6.3	1.072e+04	5.360e+04
28	26.663	0.038	0.239	61.09	0.6	6.48	6.72e-02	1.53	1.59e-02	1.403e+04	7.017e+04
29	26.950	0.037	0.239	0.38	3.91e-03	8.17	8.48e-02	854.94	8.9	1.434e+04	7.168e+04
30	27.496	0.036	0.239	39.48	0.4	50.16	0.5	122.56	1.3	1.492e+04	7.462e+04

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
31	30.140	0.033	0.239	6.88	7.13e-02	2.49e-03	2.58e-05	335.52	3.5	1.793e+04	8.966e+04
32	30.732	0.033	0.240	0.25	2.64e-03	301.64	3.1	0.19	1.99e-03	1.864e+04	9.322e+04
33	31.140	0.032	0.240	8.12	8.42e-02	8.27	8.58e-02	292.82	3.0	1.914e+04	9.570e+04
34	35.216	0.028	0.240	11.45	0.1	173.24	1.8	1.41	1.46e-02	2.448e+04	1.224e+05
35	37.622	0.027	0.240	78.09	0.8	0.37	3.83e-03	104.67	1.1	2.794e+04	1.397e+05
36	38.608	0.026	0.240	34.16	0.4	0.03	2.84e-04	251.93	2.6	2.942e+04	1.471e+05
37	49.473	0.020	0.241	25.64	0.3	5.60e-04	5.81e-06	248.51	2.6	4.831e+04	2.416e+05
38	51.755	0.019	0.241	8.46	8.77e-02	65.85	0.7	49.33	0.5	5.287e+04	2.644e+05
39	54.603	0.018	0.241	34.19	0.4	27.67	0.3	111.60	1.2	5.885e+04	2.943e+05
40	72.098	0.014	0.242	78.19	0.8	6.53	6.77e-02	289.68	3.0	1.026e+05	5.130e+05
41	77.921	0.013	0.242	79.58	0.8	2.44	2.53e-02	265.14	2.7	1.199e+05	5.993e+05
42	83.399	0.012	0.242	3.34	3.46e-02	323.86	3.4	0.25	2.58e-03	1.373e+05	6.865e+05
43	109.574	0.009	0.242	6.39e-04	6.62e-06	342.03	3.5	8.67	8.99e-02	2.370e+05	1.185e+06
44	143.391	0.007	0.243	146.37	1.5	0.36	3.71e-03	231.37	2.4	4.059e+05	2.029e+06
45	154.249	0.006	0.243	39.75	0.4	0.05	5.25e-04	773.22	8.0	4.696e+05	2.348e+06
Risulta				9532.13		9620.56		9449.18			
In percentuale				98.86		99.78		98.00			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.200
			categoria suolo: E
			fattore di sito S = 1.580
			ordinata spettro (tratto Tb-Tc) = 0.219 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.679 sec.
			fattore q: 2.760
			fattore q (fragili): 1.500
			fattore per spost. mu d: 2.760
			classe di duttilità CD: B
			numero di modi considerati: 45
			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
m	kN	m	m	m	m	m	m			
9.05	2407.90	10.37	2.49	1.35	0.0	8.02	2.35	1.270	0.212	0.013
5.30	3455.93	10.53	2.67	1.35	0.0	8.02	2.35	1.270	0.227	0.030
1.60	3125.06	11.10	3.03	1.35	0.0	13.40	-2.32	1.493	0.202	0.156
1.21	126.19	14.36	-0.27	1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.83	126.19	14.36	-0.27	1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.44	126.19	14.36	-0.27	1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.05	274.62	12.81	2.19	1.35	0.0	13.40	5.13	0.290	0.027	0.584
Risulta	9642.07									

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	kN		kN		kN			
1	1.473	0.679	0.206	0.59	6.12e-03	4087.11	42.4	5.27e-03	5.46e-05	42.8	214.2
2	2.043	0.490	0.219	5683.08	58.9	8.60	8.92e-02	3.02e-03	3.13e-05	82.4	411.9
3	2.337	0.428	0.219	19.62	0.2	1389.61	14.4	3.78e-04	3.92e-06	107.8	538.9
4	4.053	0.247	0.219	0.12	1.28e-03	538.40	5.6	2.89e-03	2.99e-05	324.2	1621.1
5	5.402	0.185	0.222	525.68	5.5	0.01	1.34e-04	6.06e-03	6.29e-05	575.9	2879.7
6	6.217	0.161	0.225	0.57	5.94e-03	131.64	1.4	4.16e-03	4.31e-05	763.0	3814.9
7	6.889	0.145	0.227	0.37	3.79e-03	0.03	3.04e-04	5.61e-03	5.82e-05	936.9	4684.6
8	8.710	0.115	0.230	0.41	4.25e-03	3.54e-03	3.67e-05	0.01	1.12e-04	1497.5	7487.7
9	13.117	0.076	0.235	19.37	0.2	1841.86	19.1	0.03	2.66e-04	3396.1	1.698e+04
10	14.369	0.070	0.235	5.87e-03	6.08e-05	5.55e-03	5.76e-05	1462.95	15.2	4075.8	2.038e+04
11	14.611	0.068	0.235	7.39	7.66e-02	1.54	1.60e-02	90.19	0.9	4214.1	2.107e+04
12	14.680	0.068	0.235	0.02	2.15e-04	49.75	0.5	0.02	1.73e-04	4254.0	2.127e+04
13	14.811	0.068	0.236	2.69e-04	2.79e-06	3.64e-05	0.0	19.59	0.2	4330.2	2.165e+04
14	15.716	0.064	0.236	1523.03	15.8	99.67	1.0	2.02	2.09e-02	4875.4	2.438e+04
15	16.245	0.062	0.236	1.11	1.15e-02	0.13	1.37e-03	97.53	1.0	5209.5	2.605e+04
16	17.102	0.058	0.237	0.02	2.22e-04	0.06	5.82e-04	683.79	7.1	5773.6	2.887e+04
17	17.375	0.058	0.237	4.42e-03	4.58e-05	0.03	3.19e-04	382.17	4.0	5959.0	2.980e+04

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
18	17.601	0.057	0.237	9.74	0.1	0.20	2.04e-03	23.39	0.2	6115.1	3.058e+04
19	18.128	0.055	0.237	638.60	6.6	35.29	0.4	26.31	0.3	6486.8	3.243e+04
20	18.190	0.055	0.237	404.55	4.2	16.34	0.2	7.21	7.47e-02	6531.4	3.266e+04
21	18.321	0.055	0.237	1.10	1.14e-02	0.13	1.38e-03	948.44	9.8	6625.8	3.313e+04
22	18.831	0.053	0.237	3.51	3.64e-02	0.24	2.47e-03	15.43	0.2	6999.9	3.500e+04
23	21.021	0.048	0.238	4.10	4.25e-02	3.56e-03	3.69e-05	2.63	2.73e-02	8722.5	4.361e+04
24	21.900	0.046	0.238	1.02	1.06e-02	0.02	1.70e-04	730.69	7.6	9467.5	4.734e+04
25	22.381	0.045	0.238	3.33	3.46e-02	0.28	2.87e-03	146.45	1.5	9887.8	4.944e+04
26	23.005	0.043	0.238	9.48	9.83e-02	2.51	2.60e-02	293.07	3.0	1.045e+04	5.223e+04
27	23.336	0.043	0.238	3.04e-03	3.15e-05	0.02	2.26e-04	571.50	5.9	1.075e+04	5.375e+04
28	26.189	0.038	0.239	19.52	0.2	4.29	4.45e-02	42.92	0.4	1.354e+04	6.769e+04
29	26.912	0.037	0.239	2.40	2.49e-02	6.95	7.21e-02	786.79	8.2	1.430e+04	7.148e+04
30	27.943	0.036	0.239	25.11	0.3	96.69	1.0	147.61	1.5	1.541e+04	7.706e+04
31	28.348	0.035	0.239	75.03	0.8	54.27	0.6	46.89	0.5	1.586e+04	7.931e+04
32	30.560	0.033	0.240	6.26	6.49e-02	41.62	0.4	438.97	4.6	1.843e+04	9.217e+04
33	30.842	0.032	0.240	9.08	9.41e-02	355.29	3.7	128.88	1.3	1.878e+04	9.389e+04
34	34.683	0.029	0.240	4.21	4.36e-02	75.66	0.8	23.30	0.2	2.374e+04	1.187e+05
35	37.159	0.027	0.240	85.68	0.9	0.81	8.43e-03	52.92	0.5	2.726e+04	1.363e+05
36	38.312	0.026	0.240	15.66	0.2	0.82	8.45e-03	286.96	3.0	2.897e+04	1.449e+05
37	49.105	0.020	0.241	12.54	0.1	10.37	0.1	275.84	2.9	4.760e+04	2.380e+05
38	50.274	0.020	0.241	19.37	0.2	53.33	0.6	0.50	5.15e-03	4.989e+04	2.495e+05
39	53.410	0.019	0.241	27.60	0.3	18.60	0.2	127.20	1.3	5.631e+04	2.815e+05
40	72.805	0.014	0.242	29.60	0.3	14.22	0.1	471.49	4.9	1.046e+05	5.232e+05
41	79.248	0.013	0.242	149.81	1.6	38.40	0.4	88.43	0.9	1.240e+05	6.198e+05
42	83.056	0.012	0.242	33.18	0.3	334.14	3.5	0.05	5.14e-04	1.362e+05	6.808e+05
43	110.495	0.009	0.242	1.38	1.43e-02	309.91	3.2	3.23	3.35e-02	2.410e+05	1.205e+06
44	142.258	0.007	0.243	105.91	1.1	0.66	6.87e-03	389.36	4.0	3.995e+05	1.997e+06
45	155.152	0.006	0.243	56.79	0.6	0.26	2.65e-03	630.00	6.5	4.752e+05	2.376e+06
Risulta				9535.92		9619.76		9444.79			
In percentuale				98.90		99.77		97.95			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.200
			categoria suolo: E
			fattore di sito S = 1.580
			ordinata spettro (tratto Tb-Tc) = 0.219 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.606 sec.
			fattore q: 2.760
			fattore q (fragili): 1.500
			fattore per spost. mu d: 2.862
			classe di duttilità CD: B
			numero di modi considerati: 45
			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
m	kN	m	m	m	m	m	m			
9.05	2407.90	10.37	2.49	-1.35	0.0	8.02	2.35	1.270	0.212	0.013
5.30	3455.93	10.53	2.67	-1.35	0.0	8.02	2.35	1.270	0.227	0.030
1.60	3125.06	11.10	3.03	-1.35	0.0	13.40	-2.32	1.493	0.202	0.156
1.21	126.19	14.36	-0.27	-1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.83	126.19	14.36	-0.27	-1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.44	126.19	14.36	-0.27	-1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.05	274.62	12.81	2.19	-1.35	0.0	13.40	5.13	0.290	0.027	0.584
Risulta	9642.07									

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	kN		kN		kN			
1	1.650	0.606	0.219	0.36	3.74e-03	4750.83	49.3	5.83e-03	6.05e-05	53.8	268.8
2	2.041	0.490	0.219	5565.23	57.7	24.59	0.3	2.37e-03	2.46e-05	82.2	411.1
3	2.159	0.463	0.219	137.78	1.4	757.22	7.9	2.59e-03	2.68e-05	92.0	460.1
4	4.532	0.221	0.219	0.03	3.28e-04	590.79	6.1	2.26e-03	2.35e-05	405.5	2027.5



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	kN		kN		kN			
1	1.555	0.643	0.229	66.74	0.7	4125.23	42.8	5.29e-03	5.49e-05	47.7	238.6
2	2.004	0.499	0.248	4716.14	48.9	454.85	4.7	2.11e-03	2.19e-05	79.3	396.3
3	2.258	0.443	0.248	922.52	9.6	929.05	9.6	2.68e-03	2.78e-05	100.6	503.2
4	4.283	0.233	0.248	7.28	7.55e-02	537.05	5.6	3.50e-03	3.63e-05	362.1	1810.5
5	5.317	0.188	0.241	484.18	5.0	30.17	0.3	7.38e-03	7.65e-05	558.0	2789.8
6	5.987	0.167	0.226	42.73	0.4	88.85	0.9	8.96e-04	9.29e-06	707.5	3537.3
7	6.211	0.161	0.221	1.60	1.66e-02	0.57	5.90e-03	5.64e-03	5.85e-05	761.4	3807.0
8	7.883	0.127	0.196	1.14	1.18e-02	1.72e-04	1.78e-06	3.35e-03	3.48e-05	1226.8	6133.9
9	13.270	0.075	0.159	174.61	1.8	1519.14	15.8	0.03	2.68e-04	3475.8	1.738e+04
10	13.966	0.072	0.156	899.14	9.3	458.25	4.8	4.83	5.00e-02	3850.0	1.925e+04
11	14.369	0.070	0.154	0.01	1.04e-04	8.58e-05	0.0	1461.23	15.2	4075.8	2.038e+04
12	14.629	0.068	0.154	16.56	0.2	4.72	4.89e-02	85.86	0.9	4224.5	2.112e+04
13	14.811	0.068	0.153	1.17e-03	1.21e-05	1.79e-04	1.86e-06	19.63	0.2	4330.2	2.165e+04
14	14.880	0.067	0.153	19.55	0.2	26.26	0.3	0.05	5.51e-04	4370.8	2.185e+04
15	16.245	0.062	0.149	0.12	1.28e-03	3.66e-03	3.79e-05	99.72	1.0	5209.1	2.605e+04
16	17.126	0.058	0.146	0.86	8.87e-03	0.02	1.89e-04	831.73	8.6	5789.5	2.895e+04
17	17.498	0.057	0.145	2.85	2.96e-02	0.04	3.93e-04	277.49	2.9	6043.4	3.022e+04
18	17.601	0.057	0.145	13.30	0.1	0.22	2.29e-03	1.22	1.27e-02	6115.3	3.058e+04
19	17.988	0.056	0.144	1386.69	14.4	15.27	0.2	1.39	1.44e-02	6386.9	3.193e+04
20	18.325	0.055	0.144	1.43	1.48e-02	0.02	1.81e-04	949.17	9.8	6628.3	3.314e+04
21	18.501	0.054	0.143	1.55	1.61e-02	0.17	1.78e-03	12.54	0.1	6756.2	3.378e+04
22	18.675	0.054	0.143	5.30	5.50e-02	0.19	2.00e-03	13.78	0.1	6884.3	3.442e+04
23	20.170	0.050	0.140	18.64	0.2	0.09	9.66e-04	0.16	1.71e-03	8030.3	4.015e+04
24	21.867	0.046	0.137	0.08	8.79e-04	1.49e-04	1.54e-06	715.64	7.4	9438.9	4.719e+04
25	22.862	0.044	0.136	1.67	1.74e-02	4.18	4.34e-02	571.33	5.9	1.032e+04	5.159e+04
26	23.284	0.043	0.135	0.09	8.88e-04	0.38	3.95e-03	420.36	4.4	1.070e+04	5.351e+04
27	23.699	0.042	0.134	19.67	0.2	48.37	0.5	0.66	6.80e-03	1.109e+04	5.543e+04
28	26.161	0.038	0.132	91.59	0.9	9.85	0.1	165.53	1.7	1.351e+04	6.755e+04
29	26.671	0.037	0.131	25.35	0.3	11.04	0.1	600.53	6.2	1.404e+04	7.021e+04
30	28.417	0.035	0.129	9.19	9.53e-02	42.36	0.4	200.43	2.1	1.594e+04	7.970e+04
31	29.617	0.034	0.128	1.84	1.91e-02	200.56	2.1	276.65	2.9	1.731e+04	8.657e+04
32	29.953	0.033	0.128	2.44	2.53e-02	184.17	1.9	277.95	2.9	1.771e+04	8.855e+04
33	31.118	0.032	0.127	81.32	0.8	20.03	0.2	44.71	0.5	1.911e+04	9.557e+04
34	35.391	0.028	0.124	22.81	0.2	92.44	1.0	106.55	1.1	2.472e+04	1.236e+05
35	36.711	0.027	0.124	0.23	2.42e-03	42.33	0.4	237.66	2.5	2.660e+04	1.330e+05
36	38.977	0.026	0.122	57.24	0.6	6.17	6.40e-02	23.75	0.2	2.999e+04	1.499e+05
37	46.604	0.021	0.119	11.66	0.1	21.45	0.2	198.20	2.1	4.287e+04	2.144e+05
38	49.327	0.020	0.118	5.38	5.58e-02	32.01	0.3	190.20	2.0	4.803e+04	2.401e+05
39	52.445	0.019	0.118	30.89	0.3	45.50	0.5	16.86	0.2	5.429e+04	2.715e+05
40	70.755	0.014	0.114	2.18	2.26e-02	0.56	5.85e-03	569.18	5.9	9.882e+04	4.941e+05
41	79.096	0.013	0.113	240.89	2.5	6.26	6.50e-02	5.24	5.43e-02	1.235e+05	6.175e+05
42	86.446	0.012	0.112	6.20	6.43e-02	391.43	4.1	0.09	9.16e-04	1.475e+05	7.376e+05
43	112.956	0.009	0.110	3.32	3.44e-02	271.06	2.8	7.92	8.22e-02	2.519e+05	1.259e+06
44	136.977	0.007	0.109	68.18	0.7	0.09	9.42e-04	658.80	6.8	3.704e+05	1.852e+06
45	167.305	0.006	0.108	77.87	0.8	0.79	8.20e-03	396.14	4.1	5.525e+05	2.763e+06
Risulta				9543.03		9621.22		9443.25			
In percentuale				98.97		99.78		97.94			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.200
			categoria suolo: E
			fattore di sito S = 1.600
			ordinata spettro (tratto Tb-Tc) = 0.248 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.493 sec.
			numero di modi considerati: 45
			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
m	kN	m	m	m	m	m	m			
9.05	2407.90	10.37	2.49	0.0	0.89	8.02	2.35	1.270	0.212	0.013
5.30	3455.93	10.53	2.67	0.0	0.89	8.02	2.35	1.270	0.227	0.030
1.60	3125.06	11.10	3.03	0.0	0.89	13.40	-2.32	1.493	0.202	0.156

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
1.21	126.19	14.36	-0.27	0.0	0.89	13.40	-2.36	1.493	0.084	0.061
0.83	126.19	14.36	-0.27	0.0	0.89	13.40	-2.36	1.493	0.084	0.061
0.44	126.19	14.36	-0.27	0.0	0.89	13.40	-2.36	1.493	0.084	0.061
0.05	274.62	12.81	2.19	0.0	0.89	13.40	5.13	0.290	0.027	0.584
Risulta	9642.07									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X	%	M efficace Y	%	M efficace Z	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	1.563	0.640	0.230	40.02	0.4	4280.26	44.4	6.18e-03	6.41e-05	48.2	241.1
2	2.029	0.493	0.248	5275.24	54.7	206.78	2.1	2.87e-03	2.98e-05	81.3	406.4
3	2.265	0.442	0.248	386.10	4.0	1022.99	10.6	6.65e-05	0.0	101.2	506.2
4	4.294	0.233	0.248	3.63	3.77e-02	544.11	5.6	2.36e-03	2.45e-05	364.0	1820.0
5	5.338	0.187	0.240	465.27	4.8	24.27	0.3	3.33e-03	3.46e-05	562.5	2812.7
6	6.023	0.166	0.225	42.35	0.4	86.59	0.9	7.74e-03	8.03e-05	716.0	3579.8
7	8.061	0.124	0.194	2.68	2.78e-02	0.75	7.80e-03	7.62e-03	7.90e-05	1282.8	6413.9
8	10.222	0.098	0.175	3.07	3.18e-02	1.05	1.09e-02	0.03	2.89e-04	2062.6	1.031e+04
9	13.332	0.075	0.158	1.92	1.99e-02	1863.00	19.3	0.09	9.73e-04	3508.3	1.754e+04
10	14.369	0.070	0.154	2.85e-03	2.96e-05	2.18e-03	2.26e-05	1462.64	15.2	4075.8	2.038e+04
11	14.615	0.068	0.154	0.80	8.28e-03	0.16	1.70e-03	89.81	0.9	4216.5	2.108e+04
12	14.799	0.068	0.153	3.85	3.99e-02	43.61	0.5	0.0	0.0	4322.8	2.161e+04
13	14.811	0.068	0.153	1.25e-04	1.30e-06	1.13e-03	1.17e-05	19.61	0.2	4330.2	2.165e+04
14	16.244	0.062	0.149	3.57	3.71e-02	6.16e-03	6.39e-05	100.79	1.0	5208.8	2.604e+04
15	16.917	0.059	0.147	2495.12	25.9	1.66	1.72e-02	45.91	0.5	5649.0	2.825e+04
16	17.104	0.058	0.146	41.52	0.4	0.06	6.11e-04	633.47	6.6	5774.4	2.887e+04
17	17.375	0.058	0.146	4.55	4.72e-02	8.38e-03	8.70e-05	388.83	4.0	5959.1	2.980e+04
18	17.589	0.057	0.145	93.46	1.0	10.38	0.1	20.89	0.2	6107.1	3.054e+04
19	18.088	0.055	0.144	1.66	1.72e-02	211.67	2.2	3.43	3.56e-02	6457.9	3.229e+04
20	18.321	0.055	0.144	0.23	2.37e-03	0.04	4.03e-04	984.07	10.2	6626.0	3.313e+04
21	18.464	0.054	0.143	0.80	8.35e-03	2.58	2.67e-02	0.05	5.36e-04	6729.5	3.365e+04
22	18.632	0.054	0.143	0.73	7.54e-03	0.40	4.17e-03	2.50	2.59e-02	6852.5	3.426e+04
23	19.153	0.052	0.142	0.29	3.05e-03	0.02	2.10e-04	5.67	5.88e-02	7241.3	3.621e+04
24	21.911	0.046	0.137	0.0	0.0	0.03	2.62e-04	773.53	8.0	9476.2	4.738e+04
25	22.006	0.045	0.137	5.51	5.72e-02	0.09	9.54e-04	33.77	0.4	9559.0	4.780e+04
26	22.954	0.044	0.135	4.36	4.52e-02	2.87	2.97e-02	335.79	3.5	1.040e+04	5.200e+04
27	23.304	0.043	0.135	5.27e-06	0.0	0.03	3.37e-04	604.93	6.3	1.072e+04	5.360e+04
28	26.663	0.038	0.131	61.09	0.6	6.48	6.72e-02	1.53	1.59e-02	1.403e+04	7.017e+04
29	26.950	0.037	0.131	0.38	3.91e-03	8.17	8.48e-02	854.94	8.9	1.434e+04	7.168e+04
30	27.496	0.036	0.130	39.48	0.4	50.16	0.5	122.56	1.3	1.492e+04	7.462e+04
31	30.140	0.033	0.128	6.88	7.13e-02	2.49e-03	2.58e-05	335.52	3.5	1.793e+04	8.966e+04
32	30.732	0.033	0.127	0.25	2.64e-03	301.64	3.1	0.19	1.99e-03	1.864e+04	9.322e+04
33	31.140	0.032	0.127	8.12	8.42e-02	8.27	8.58e-02	292.82	3.0	1.914e+04	9.570e+04
34	35.216	0.028	0.124	11.45	0.1	173.24	1.8	1.41	1.46e-02	2.448e+04	1.224e+05
35	37.622	0.027	0.123	78.09	0.8	0.37	3.83e-03	104.67	1.1	2.794e+04	1.397e+05
36	38.608	0.026	0.123	34.16	0.4	0.03	2.84e-04	251.93	2.6	2.942e+04	1.471e+05
37	49.473	0.020	0.118	25.64	0.3	5.60e-04	5.81e-06	248.51	2.6	4.831e+04	2.416e+05
38	51.755	0.019	0.118	8.46	8.77e-02	65.85	0.7	49.33	0.5	5.287e+04	2.644e+05
39	54.603	0.018	0.117	34.19	0.4	27.67	0.3	111.60	1.2	5.885e+04	2.943e+05
40	72.098	0.014	0.114	78.19	0.8	6.53	6.77e-02	289.68	3.0	1.026e+05	5.130e+05
41	77.921	0.013	0.113	79.58	0.8	2.44	2.53e-02	265.14	2.7	1.199e+05	5.993e+05
42	83.399	0.012	0.112	3.34	3.46e-02	323.86	3.4	0.25	2.58e-03	1.373e+05	6.865e+05
43	109.574	0.009	0.110	6.39e-04	6.62e-06	342.03	3.5	8.67	8.99e-02	2.370e+05	1.185e+06
44	143.391	0.007	0.109	146.37	1.5	0.36	3.71e-03	231.37	2.4	4.059e+05	2.029e+06
45	154.249	0.006	0.108	39.75	0.4	0.05	5.25e-04	773.22	8.0	4.696e+05	2.348e+06
Risulta				9532.13		9620.56		9449.18			
In percentuale				98.86		99.78		98.00			

CDC	Tipo	Sigla Id	Note
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.200
			categoria suolo: E
			fattore di sito S = 1.600
			ordinata spettro (tratto Tb-Tc) = 0.248 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.679 sec.
			numero di modi considerati: 45
			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
m	kN	m	m	m	m	m	m			
9.05	2407.90	10.37	2.49	1.35	0.0	8.02	2.35	1.270	0.212	0.013
5.30	3455.93	10.53	2.67	1.35	0.0	8.02	2.35	1.270	0.227	0.030
1.60	3125.06	11.10	3.03	1.35	0.0	13.40	-2.32	1.493	0.202	0.156
1.21	126.19	14.36	-0.27	1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.83	126.19	14.36	-0.27	1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.44	126.19	14.36	-0.27	1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.05	274.62	12.81	2.19	1.35	0.0	13.40	5.13	0.290	0.027	0.584
Risulta	9642.07									

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	kN		kN		kN			
1	1.473	0.679	0.217	0.59	6.12e-03	4087.11	42.4	5.27e-03	5.46e-05	42.8	214.2
2	2.043	0.490	0.248	5683.08	58.9	8.60	8.92e-02	3.02e-03	3.13e-05	82.4	411.9
3	2.337	0.428	0.248	19.62	0.2	1389.61	14.4	3.78e-04	3.92e-06	107.8	538.9
4	4.053	0.247	0.248	0.12	1.28e-03	538.40	5.6	2.89e-03	2.99e-05	324.2	1621.1
5	5.402	0.185	0.239	525.68	5.5	0.01	1.34e-04	6.06e-03	6.29e-05	575.9	2879.7
6	6.217	0.161	0.221	0.57	5.94e-03	131.64	1.4	4.16e-03	4.31e-05	763.0	3814.9
7	6.889	0.145	0.210	0.37	3.79e-03	0.03	3.04e-04	5.61e-03	5.82e-05	936.9	4684.6
8	8.710	0.115	0.187	0.41	4.25e-03	3.54e-03	3.67e-05	0.01	1.12e-04	1497.5	7487.7
9	13.117	0.076	0.159	19.37	0.2	1841.86	19.1	0.03	2.66e-04	3396.1	1.698e+04
10	14.369	0.070	0.154	5.87e-03	6.08e-05	5.55e-03	5.76e-05	1462.95	15.2	4075.8	2.038e+04
11	14.611	0.068	0.154	7.39	7.66e-02	1.54	1.60e-02	90.19	0.9	4214.1	2.107e+04
12	14.680	0.068	0.153	0.02	2.15e-04	49.75	0.5	0.02	1.73e-04	4254.0	2.127e+04
13	14.811	0.068	0.153	2.69e-04	2.79e-06	3.64e-05	0.0	19.59	0.2	4330.2	2.165e+04
14	15.716	0.064	0.150	1523.03	15.8	99.67	1.0	2.02	2.09e-02	4875.4	2.438e+04
15	16.245	0.062	0.149	1.11	1.15e-02	0.13	1.37e-03	97.53	1.0	5209.5	2.605e+04
16	17.102	0.058	0.146	0.02	2.22e-04	0.06	5.82e-04	683.79	7.1	5773.6	2.887e+04
17	17.375	0.058	0.146	4.42e-03	4.58e-05	0.03	3.19e-04	382.17	4.0	5959.0	2.980e+04
18	17.601	0.057	0.145	9.74	0.1	0.20	2.04e-03	23.39	0.2	6115.1	3.058e+04
19	18.128	0.055	0.144	638.60	6.6	35.29	0.4	26.31	0.3	6486.8	3.243e+04
20	18.190	0.055	0.144	404.55	4.2	16.34	0.2	7.21	7.47e-02	6531.4	3.266e+04
21	18.321	0.055	0.144	1.10	1.14e-02	0.13	1.38e-03	948.44	9.8	6625.8	3.313e+04
22	18.831	0.053	0.142	3.51	3.64e-02	0.24	2.47e-03	15.43	0.2	6999.9	3.500e+04
23	21.021	0.048	0.138	4.10	4.25e-02	3.56e-03	3.69e-05	2.63	2.73e-02	8722.5	4.361e+04
24	21.900	0.046	0.137	1.02	1.06e-02	0.02	1.70e-04	730.69	7.6	9467.5	4.734e+04
25	22.381	0.045	0.136	3.33	3.46e-02	0.28	2.87e-03	146.45	1.5	9887.8	4.944e+04
26	23.005	0.043	0.135	9.48	9.83e-02	2.51	2.60e-02	293.07	3.0	1.045e+04	5.223e+04
27	23.336	0.043	0.135	3.04e-03	3.15e-05	0.02	2.26e-04	571.50	5.9	1.075e+04	5.375e+04
28	26.189	0.038	0.132	19.52	0.2	4.29	4.45e-02	42.92	0.4	1.354e+04	6.769e+04
29	26.912	0.037	0.131	2.40	2.49e-02	6.95	7.21e-02	786.79	8.2	1.430e+04	7.148e+04
30	27.943	0.036	0.130	25.11	0.3	96.69	1.0	147.61	1.5	1.541e+04	7.706e+04
31	28.348	0.035	0.129	75.03	0.8	54.27	0.6	46.89	0.5	1.586e+04	7.931e+04
32	30.560	0.033	0.128	6.26	6.49e-02	41.62	0.4	438.97	4.6	1.843e+04	9.217e+04
33	30.842	0.032	0.127	9.08	9.41e-02	355.29	3.7	128.88	1.3	1.878e+04	9.389e+04
34	34.683	0.029	0.125	4.21	4.36e-02	75.66	0.8	23.30	0.2	2.374e+04	1.187e+05
35	37.159	0.027	0.123	85.68	0.9	0.81	8.43e-03	52.92	0.5	2.726e+04	1.363e+05
36	38.312	0.026	0.123	15.66	0.2	0.82	8.45e-03	286.96	3.0	2.897e+04	1.449e+05
37	49.105	0.020	0.119	12.54	0.1	10.37	0.1	275.84	2.9	4.760e+04	2.380e+05
38	50.274	0.020	0.118	19.37	0.2	53.33	0.6	0.50	5.15e-03	4.989e+04	2.495e+05
39	53.410	0.019	0.117	27.60	0.3	18.60	0.2	127.20	1.3	5.631e+04	2.815e+05
40	72.805	0.014	0.114	29.60	0.3	14.22	0.1	471.49	4.9	1.046e+05	5.232e+05
41	79.248	0.013	0.113	149.81	1.6	38.40	0.4	88.43	0.9	1.240e+05	6.198e+05
42	83.056	0.012	0.112	33.18	0.3	334.14	3.5	0.05	5.14e-04	1.362e+05	6.808e+05
43	110.495	0.009	0.110	1.38	1.43e-02	309.91	3.2	3.23	3.35e-02	2.410e+05	1.205e+06
44	142.258	0.007	0.109	105.91	1.1	0.66	6.87e-03	389.36	4.0	3.995e+05	1.997e+06
45	155.152	0.006	0.108	56.79	0.6	0.26	2.65e-03	630.00	6.5	4.752e+05	2.376e+06
Risulta				9535.92		9619.76		9444.79			
In percentuale				98.90		99.77		97.95			

CDC	Tipo	Sigla Id	Note
14	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.200
			categoria suolo: E

CDC	Tipo	Sigla Id	Note
			fattore di sito S = 1.600
			ordinata spettro (tratto Tb-Tc) = 0.248 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.606 sec.
			numero di modi considerati: 45
			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
m	kN	m	m	m	m	m	m			
9.05	2407.90	10.37	2.49	-1.35	0.0	8.02	2.35	1.270	0.212	0.013
5.30	3455.93	10.53	2.67	-1.35	0.0	8.02	2.35	1.270	0.227	0.030
1.60	3125.06	11.10	3.03	-1.35	0.0	13.40	-2.32	1.493	0.202	0.156
1.21	126.19	14.36	-0.27	-1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.83	126.19	14.36	-0.27	-1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.44	126.19	14.36	-0.27	-1.35	0.0	13.40	-2.36	1.493	0.084	0.061
0.05	274.62	12.81	2.19	-1.35	0.0	13.40	5.13	0.290	0.027	0.584
Risulta	9642.07									

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	kN		kN		kN			
1	1.650	0.606	0.243	0.36	3.74e-03	4750.83	49.3	5.83e-03	6.05e-05	53.8	268.8
2	2.041	0.490	0.248	5565.23	57.7	24.59	0.3	2.37e-03	2.46e-05	82.2	411.1
3	2.159	0.463	0.248	137.78	1.4	757.22	7.9	2.59e-03	2.68e-05	92.0	460.1
4	4.532	0.221	0.248	0.03	3.28e-04	590.79	6.1	2.26e-03	2.35e-05	405.5	2027.5
5	5.402	0.185	0.239	525.27	5.4	0.02	1.93e-04	5.84e-03	6.06e-05	576.0	2879.9
6	5.772	0.173	0.230	1.06	1.10e-02	52.31	0.5	5.88e-03	6.10e-05	657.7	3288.7
7	6.905	0.145	0.209	0.30	3.07e-03	0.67	6.99e-03	4.66e-03	4.83e-05	941.3	4706.4
8	8.728	0.115	0.187	0.35	3.63e-03	1.21	1.26e-02	7.62e-03	7.90e-05	1503.8	7518.9
9	13.504	0.074	0.158	15.07	0.2	1884.63	19.5	0.08	7.79e-04	3599.9	1.800e+04
10	14.369	0.070	0.154	7.79e-03	8.08e-05	6.30e-03	6.53e-05	1463.18	15.2	4075.8	2.038e+04
11	14.605	0.068	0.154	16.72	0.2	2.99	3.10e-02	89.51	0.9	4210.7	2.105e+04
12	14.811	0.068	0.153	6.20e-04	6.43e-06	3.19e-05	0.0	19.58	0.2	4330.2	2.165e+04
13	15.046	0.066	0.152	29.76	0.3	77.40	0.8	0.08	8.27e-04	4468.5	2.234e+04
14	15.302	0.065	0.151	913.83	9.5	100.20	1.0	7.27e-04	7.54e-06	4622.2	2.311e+04
15	16.247	0.062	0.149	0.20	2.10e-03	0.03	3.47e-04	101.26	1.1	5210.5	2.605e+04
16	17.150	0.058	0.146	12.60	0.1	0.38	3.92e-03	950.91	9.9	5805.7	2.903e+04
17	17.232	0.058	0.146	109.93	1.1	3.75	3.89e-02	15.16	0.2	5861.5	2.931e+04
18	17.400	0.057	0.146	1368.94	14.2	30.72	0.3	1.42	1.47e-02	5976.0	2.988e+04
19	17.655	0.057	0.145	94.67	1.0	0.85	8.77e-03	16.99	0.2	6152.5	3.076e+04
20	17.984	0.056	0.144	0.11	1.12e-03	1.71e-03	1.77e-05	392.13	4.1	6384.0	3.192e+04
21	18.420	0.054	0.143	0.35	3.61e-03	0.03	3.19e-04	710.06	7.4	6697.7	3.349e+04
22	18.835	0.053	0.142	0.02	2.30e-04	0.25	2.59e-03	0.45	4.70e-03	7002.5	3.501e+04
23	19.315	0.052	0.141	1.43	1.49e-02	2.10e-03	2.18e-05	1.35	1.40e-02	7364.2	3.682e+04
24	20.510	0.049	0.139	13.61	0.1	0.02	1.73e-04	0.06	5.74e-04	8303.7	4.152e+04
25	22.068	0.045	0.137	0.10	1.01e-03	0.01	1.28e-04	1048.06	10.9	9613.3	4.807e+04
26	23.267	0.043	0.135	0.46	4.82e-03	18.38	0.2	504.72	5.2	1.069e+04	5.343e+04
27	23.873	0.042	0.134	5.82	6.03e-02	41.97	0.4	146.82	1.5	1.125e+04	5.625e+04
28	24.876	0.040	0.133	79.22	0.8	22.53	0.2	58.12	0.6	1.222e+04	6.108e+04
29	25.588	0.039	0.132	15.84	0.2	0.08	8.30e-04	239.09	2.5	1.292e+04	6.462e+04
30	27.582	0.036	0.130	10.05	0.1	12.11	0.1	526.05	5.5	1.502e+04	7.509e+04
31	28.571	0.035	0.129	24.52	0.3	37.31	0.4	472.37	4.9	1.611e+04	8.057e+04
32	29.821	0.034	0.128	9.02	9.36e-02	193.70	2.0	144.08	1.5	1.755e+04	8.777e+04
33	30.133	0.033	0.128	59.20	0.6	65.83	0.7	26.31	0.3	1.792e+04	8.962e+04
34	34.602	0.029	0.125	1.59	1.65e-02	1.16	1.21e-02	396.06	4.1	2.363e+04	1.182e+05
35	37.751	0.026	0.123	30.55	0.3	164.16	1.7	0.41	4.22e-03	2.813e+04	1.407e+05
36	39.408	0.025	0.122	64.23	0.7	15.80	0.2	20.23	0.2	3.066e+04	1.533e+05
37	45.878	0.022	0.120	4.53	4.70e-02	3.24	3.36e-02	397.60	4.1	4.155e+04	2.077e+05
38	48.638	0.021	0.119	2.99	3.10e-02	100.24	1.0	1.16	1.20e-02	4.670e+04	2.335e+05
39	55.830	0.018	0.117	58.40	0.6	7.49	7.77e-02	29.96	0.3	6.153e+04	3.076e+05
40	68.953	0.015	0.114	10.84	0.1	2.89	3.00e-02	571.22	5.9	9.385e+04	4.693e+05
41	79.596	0.013	0.113	16.07	0.2	258.20	2.7	6.25	6.48e-02	1.251e+05	6.253e+05
42	83.099	0.012	0.112	190.39	2.0	31.58	0.3	19.56	0.2	1.363e+05	6.815e+05
43	111.240	0.009	0.110	0.25	2.58e-03	363.94	3.8	8.78	9.11e-02	2.443e+05	1.221e+06
44	142.817	0.007	0.109	18.49	0.2	0.62	6.42e-03	930.25	9.6	4.026e+05	2.013e+06
45	160.016	0.006	0.108	130.95	1.4	0.14	1.45e-03	113.06	1.2	5.054e+05	2.527e+06
Risulta				9541.17		9620.30		9422.41			
In				98.95		99.77		97.72			



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

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
			mm	cm			mm	cm			mm	cm
65	1	2.81	10.53	375.0	5	3.72	13.77	370.0	6	2.89	10.71	370.0
	12	3.40	12.59	370.0	16	2.31	8.67	375.0	17	2.73	10.24	375.0
	21	2.14	7.92	370.0	22	2.83	10.47	370.0	28	2.60	9.63	370.0
	29	0.30	1.01	340.0	30	0.30	1.02	340.0	31	0.21	0.71	340.0
	32	0.19	0.64	340.0	33	0.18	0.60	340.0	34	0.19	0.63	340.0
	35	0.15	0.51	340.0	36	0.11	0.39	340.0	40	2.45	9.20	375.0
	41	2.51	9.42	375.0	45	2.04	7.56	370.0	46	3.28	12.15	370.0
	47	0.01	4.03e-03	35.0	56	2.81	10.55	375.0	57	2.42	9.09	375.0
	59	2.58	9.55	370.0	60	3.29	12.17	370.0	62	3.93	14.53	370.0
	66	3.07	11.51	375.0	67	2.17	8.15	375.0	69	2.62	9.71	370.0
	70	3.66	13.54	370.0	76	1.49	5.60	375.0	77	2.11	7.92	375.0
	78	4.26e-03	1.49e-03	35.0	79	0.01	5.10e-03	35.0	81	3.06	11.34	370.0
	82	3.97	14.68	370.0	83	0.02	6.17e-03	35.0	84	0.01	4.82e-03	35.0
	85	0.02	5.44e-03	35.0	86	0.02	6.43e-03	35.0	93	1.99	7.46	375.0
	94	2.65	9.95	375.0	99	2.52	9.34	370.0	100	3.57	13.22	370.0
	102	0.02	7.27e-03	35.0	103	8.97e-03	3.14e-03	35.0	104	0.03	9.56e-03	35.0
	105	0.03	0.01	35.0	109	2.16	8.09	375.0	110	2.99	11.20	375.0
	115	2.97	11.00	370.0	116	3.49	12.90	370.0	119	0.02	7.90e-03	35.0
	120	0.02	8.50e-03	35.0	121	0.03	9.41e-03	35.0	122	1.41	5.29	375.0
	125	2.56	9.61	375.0	126	3.23	12.10	375.0	127	3.13	11.72	375.0
	131	3.03	11.21	370.0	132	3.21	11.88	370.0	134	0.02	6.33e-03	35.0
	138	2.53	9.48	375.0	141	2.84	10.66	375.0	142	1.91	7.15	375.0
	143	3.06	11.46	375.0	145	4.19	15.49	370.0	147	3.40	12.56	370.0
	148	3.11	11.52	370.0	150	8.01e-03	2.81e-03	35.0	158	1.84	6.90	375.0
	159	0.33	0.51	155.0	164	0.28	0.11	38.8	165	0.36	0.56	155.0
	166	0.30	0.47	155.0	167	0.33	0.51	155.0	168	0.31	0.49	155.0
	169	0.09	0.03	38.8	172	0.14	0.05	38.8	173	0.31	0.12	38.8
	174	0.33	0.13	38.8	175	0.34	0.13	38.8	176	0.08	0.03	38.8
	177	0.04	0.02	38.8	178	0.05	0.02	38.8	179	0.12	0.05	38.8
	181	0.31	0.48	155.0	183	5.26e-03	2.63e-03	50.0	188	0.01	6.02e-03	50.0
	189	0.03	0.02	50.0	190	0.04	0.02	50.0	191	9.12e-03	4.56e-03	50.0
	192	0.02	8.95e-03	50.0	193	0.03	0.02	50.0	196	0.06	0.03	50.0
	197	0.08	0.04	50.0	198	0.19	0.09	50.0	199	0.20	0.10	50.0
	200	0.04	0.02	50.0	201	0.04	0.02	50.0	202	0.04	0.02	50.0
	203	0.08	0.04	50.0	205	0.06	0.03	50.0	211	0.45	0.17	38.8
	212	0.16	0.06	38.8	215	0.23	0.09	38.8	216	0.46	0.18	38.8
	217	0.42	0.16	38.8	218	0.42	0.16	38.8	219	0.06	0.02	38.8
	220	0.07	0.03	38.8	221	0.14	0.05	38.8	224	0.03	0.02	50.0
	225	7.31e-03	3.65e-03	50.0	226	0.03	0.01	50.0	227	0.03	0.02	50.0
	228	9.09e-03	4.55e-03	50.0	229	0.03	0.02	50.0	230	0.03	0.01	50.0
	231	0.01	6.62e-03	50.0	232	0.02	8.94e-03	50.0	233	0.10	0.05	50.0
	234	0.11	0.05	50.0	235	0.04	0.02	50.0	236	0.03	0.02	50.0
	237	0.04	0.02	50.0	238	0.05	0.02	50.0	239	0.01	6.05e-03	50.0
	240	0.37	0.14	38.8	241	0.11	0.04	38.8	242	0.18	0.07	38.8
	243	0.39	0.15	38.8	244	0.38	0.15	38.8	245	0.39	0.15	38.8
	246	0.05	0.02	38.8	247	0.05	0.02	38.8	248	0.13	0.05	38.8
	249	0.02	0.01	50.0	250	0.06	0.03	50.0	251	0.03	0.01	50.0
	252	0.02	0.01	50.0	253	0.01	5.17e-03	50.0	254	8.41e-03	4.20e-03	50.0
	255	0.06	0.03	50.0	256	0.10	0.05	50.0	257	0.20	0.10	50.0
	258	0.26	0.13	50.0	259	0.28	0.14	50.0	260	0.05	0.02	50.0
	261	0.04	0.02	50.0	262	0.04	0.02	50.0	263	0.10	0.05	50.0
	264	0.08	0.04	50.0	265	0.50	0.19	38.8	266	0.23	0.09	38.8
	267	0.33	0.13	38.8	268	0.54	0.21	38.8	269	0.48	0.19	38.8
	270	0.45	0.17	38.8	271	0.09	0.03	38.8	272	0.15	0.06	38.8
	273	0.14	0.05	38.8	275	0.10	0.04	38.8	277	0.14	0.05	38.8
	279	0.21	0.08	38.8								
66	1	2.39	8.96	375.0	5	2.67	9.89	370.0	6	3.21	11.88	370.0
	12	2.88	10.64	370.0	16	1.86	6.98	375.0	17	2.28	8.56	375.0
	21	3.37	12.47	370.0	22	3.13	11.59	370.0	28	3.28	12.12	370.0
	29	0.44	1.49	340.0	30	0.33	1.13	340.0	31	0.22	0.75	340.0
	32	0.21	0.70	340.0	33	0.18	0.62	340.0	34	0.15	0.50	340.0
	35	0.13	0.44	340.0	36	0.11	0.37	340.0	40	1.95	7.29	375.0
	41	2.39	8.95	375.0	45	3.27	12.09	370.0	46	2.46	9.09	370.0
	47	0.02	7.75e-03	35.0	56	1.99	7.46	375.0	57	2.28	8.53	375.0
	59	2.68	9.93	370.0	60	2.54	9.40	370.0	62	3.08	11.38	370.0
	66	1.99	7.46	375.0	67	2.33	8.75	375.0	69	2.80	10.37	370.0
	70	2.63	9.73	370.0	76	2.52	9.45	375.0	77	2.27	8.53	375.0

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
	78	0.01	4.21e-03	35.0	79	9.55e-03	3.34e-03	35.0	81	2.88	10.67	370.0
	82	2.62	9.69	370.0	83	0.01	4.55e-03	35.0	84	8.24e-03	2.88e-03	35.0
	85	7.97e-03	2.79e-03	35.0	86	0.02	7.06e-03	35.0	93	2.02	7.56	375.0
	94	1.86	6.97	375.0	99	3.18	11.75	370.0	100	3.15	11.66	370.0
	102	0.01	4.98e-03	35.0	103	0.02	5.79e-03	35.0	104	0.04	0.01	35.0
	105	0.03	0.01	35.0	109	2.09	7.85	375.0	110	1.91	7.16	375.0
	115	2.54	9.40	370.0	116	3.03	11.21	370.0	119	0.02	7.49e-03	35.0
	120	0.03	0.01	35.0	121	0.02	7.74e-03	35.0	122	2.48	9.28	375.0
	125	2.13	8.00	375.0	126	1.91	7.18	375.0	127	2.40	8.98	375.0
	131	2.62	9.71	370.0	132	3.22	11.93	370.0	134	0.02	6.05e-03	35.0
	138	1.77	6.63	375.0	141	2.14	8.01	375.0	142	2.40	8.99	375.0
	143	2.29	8.58	375.0	145	3.42	12.67	370.0	147	2.68	9.90	370.0
	148	3.10	11.49	370.0	150	0.02	5.44e-03	35.0	158	2.35	8.80	375.0
	159	0.48	0.74	155.0	164	0.21	0.08	38.8	165	0.39	0.61	155.0
	166	0.44	0.69	155.0	167	0.34	0.52	155.0	168	0.21	0.32	155.0
	169	0.06	0.02	38.8	172	0.28	0.11	38.8	173	0.43	0.17	38.8
	174	0.44	0.17	38.8	175	0.28	0.11	38.8	176	0.10	0.04	38.8
	177	0.06	0.02	38.8	178	0.03	0.01	38.8	179	0.14	0.05	38.8
	181	0.28	0.44	155.0	183	0.04	0.02	50.0	188	0.03	0.01	50.0
	189	0.01	6.49e-03	50.0	190	0.02	0.01	50.0	191	0.03	0.02	50.0
	192	0.06	0.03	50.0	193	0.04	0.02	50.0	196	0.12	0.06	50.0
	197	0.12	0.06	50.0	198	0.25	0.13	50.0	199	0.16	0.08	50.0
	200	0.03	0.02	50.0	201	0.05	0.03	50.0	202	0.03	0.02	50.0
	203	0.08	0.04	50.0	205	0.02	8.79e-03	50.0	211	0.39	0.15	38.8
	212	0.08	0.03	38.8	215	0.46	0.18	38.8	216	0.64	0.25	38.8
	217	0.56	0.22	38.8	218	0.34	0.13	38.8	219	0.09	0.03	38.8
	220	0.05	0.02	38.8	221	0.15	0.06	38.8	224	0.06	0.03	50.0
	225	0.02	0.01	50.0	226	0.02	8.17e-03	50.0	227	0.02	0.01	50.0
	228	0.03	0.02	50.0	229	0.01	5.98e-03	50.0	230	0.03	0.02	50.0
	231	0.05	0.02	50.0	232	0.03	0.02	50.0	233	0.14	0.07	50.0
	234	0.09	0.04	50.0	235	0.03	0.02	50.0	236	0.04	0.02	50.0
	237	0.03	0.01	50.0	238	0.05	0.03	50.0	239	0.03	0.02	50.0
	240	0.32	0.12	38.8	241	0.07	0.03	38.8	242	0.36	0.14	38.8
	243	0.54	0.21	38.8	244	0.50	0.19	38.8	245	0.31	0.12	38.8
	246	0.07	0.03	38.8	247	0.04	0.01	38.8	248	0.14	0.05	38.8
	249	0.05	0.02	50.0	250	0.07	0.04	50.0	251	9.17e-03	4.59e-03	50.0
	252	0.05	0.03	50.0	253	0.03	0.01	50.0	254	0.03	0.01	50.0
	255	0.04	0.02	50.0	256	0.20	0.10	50.0	257	0.27	0.14	50.0
	258	0.36	0.18	50.0	259	0.23	0.11	50.0	260	0.05	0.02	50.0
	261	0.06	0.03	50.0	262	0.03	0.02	50.0	263	0.11	0.05	50.0
	264	0.04	0.02	50.0	265	0.43	0.17	38.8	266	0.07	0.03	38.8
	267	0.64	0.25	38.8	268	0.75	0.29	38.8	269	0.64	0.25	38.8
	270	0.36	0.14	38.8	271	0.16	0.06	38.8	272	0.09	0.04	38.8
	273	0.16	0.06	38.8	275	0.11	0.04	38.8	277	0.14	0.05	38.8
	279	0.15	0.06	38.8								
67	1	2.40	9.00	375.0	5	2.67	9.88	370.0	6	3.21	11.87	370.0
	12	2.88	10.65	370.0	16	1.88	7.06	375.0	17	2.30	8.61	375.0
	21	3.38	12.49	370.0	22	3.13	11.58	370.0	28	3.28	12.12	370.0
	29	0.47	1.60	340.0	30	0.36	1.23	340.0	31	0.24	0.83	340.0
	32	0.23	0.78	340.0	33	0.20	0.69	340.0	34	0.16	0.56	340.0
	35	0.15	0.50	340.0	36	0.13	0.43	340.0	40	1.97	7.40	375.0
	41	2.40	8.99	375.0	45	3.28	12.12	370.0	46	2.46	9.09	370.0
	47	0.01	4.01e-03	35.0	56	2.02	7.57	375.0	57	2.29	8.60	375.0
	59	2.69	9.94	370.0	60	2.54	9.41	370.0	62	3.11	11.49	370.0
	66	2.02	7.59	375.0	67	2.35	8.82	375.0	69	2.80	10.36	370.0
	70	2.63	9.73	370.0	76	2.54	9.51	375.0	77	2.29	8.60	375.0
	78	0.02	7.72e-03	35.0	79	0.02	6.20e-03	35.0	81	2.87	10.62	370.0
	82	2.63	9.72	370.0	83	0.01	3.71e-03	35.0	84	0.02	6.64e-03	35.0
	85	0.02	6.85e-03	35.0	86	0.02	6.00e-03	35.0	93	2.04	7.65	375.0
	94	1.89	7.07	375.0	99	3.17	11.75	370.0	100	3.14	11.63	370.0
	102	0.01	3.76e-03	35.0	103	0.02	5.30e-03	35.0	104	0.06	0.02	35.0
	105	0.04	0.01	35.0	109	2.12	7.96	375.0	110	1.94	7.28	375.0
	115	2.54	9.40	370.0	116	3.02	11.19	370.0	119	0.02	8.64e-03	35.0
	120	0.02	8.42e-03	35.0	121	0.01	4.87e-03	35.0	122	2.49	9.35	375.0
	125	2.17	8.12	375.0	126	1.95	7.30	375.0	127	2.40	9.01	375.0
	131	2.62	9.71	370.0	132	3.22	11.90	370.0	134	0.01	4.20e-03	35.0
	138	1.79	6.71	375.0	141	2.17	8.14	375.0	142	2.41	9.05	375.0
	143	2.30	8.62	375.0	145	3.41	12.63	370.0	147	2.68	9.91	370.0
	148	3.10	11.47	370.0	150	0.01	4.18e-03	35.0	158	2.37	8.87	375.0
	159	0.46	0.72	155.0	164	0.29	0.11	38.8	165	0.41	0.64	155.0
	166	0.47	0.73	155.0	167	0.36	0.56	155.0	168	0.25	0.38	155.0
	169	0.08	0.03	38.8	172	0.29	0.11	38.8	173	0.42	0.16	38.8
	174	0.47	0.18	38.8	175	0.29	0.11	38.8	176	0.12	0.05	38.8
	177	0.08	0.03	38.8	178	0.05	0.02	38.8	179	0.15	0.06	38.8

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
	181	0.32	0.49	155.0	183	0.07	0.03	50.0	188	0.05	0.02	50.0
	189	0.05	0.02	50.0	190	0.02	8.59e-03	50.0	191	0.03	0.01	50.0
	192	1.66e-03	8.30e-04	50.0	193	0.01	5.87e-03	50.0	196	0.14	0.07	50.0
	197	0.12	0.06	50.0	198	0.29	0.15	50.0	199	0.18	0.09	50.0
	200	0.03	0.01	50.0	201	0.06	0.03	50.0	202	0.04	0.02	50.0
	203	0.07	0.04	50.0	205	0.08	0.04	50.0	211	0.39	0.15	38.8
	212	0.13	0.05	38.8	215	0.47	0.18	38.8	216	0.61	0.23	38.8
	217	0.58	0.23	38.8	218	0.39	0.15	38.8	219	0.11	0.04	38.8
	220	0.07	0.03	38.8	221	0.21	0.08	38.8	224	0.02	9.35e-03	50.0
	225	0.03	0.02	50.0	226	0.04	0.02	50.0	227	0.02	8.45e-03	50.0
	228	0.02	0.01	50.0	229	0.04	0.02	50.0	230	0.02	8.73e-03	50.0
	231	0.09	0.04	50.0	232	0.03	0.02	50.0	233	0.18	0.09	50.0
	234	0.11	0.05	50.0	235	0.03	0.02	50.0	236	0.04	0.02	50.0
	237	0.03	0.01	50.0	238	0.04	0.02	50.0	239	0.02	0.01	50.0
	240	0.37	0.14	38.8	241	0.10	0.04	38.8	242	0.36	0.14	38.8
	243	0.52	0.20	38.8	244	0.52	0.20	38.8	245	0.34	0.13	38.8
	246	0.09	0.03	38.8	247	0.06	0.02	38.8	248	0.17	0.07	38.8
	249	0.11	0.06	50.0	250	0.13	0.07	50.0	251	0.05	0.02	50.0
	252	0.04	0.02	50.0	253	0.01	6.76e-03	50.0	254	0.02	7.57e-03	50.0
	255	0.04	0.02	50.0	256	0.21	0.11	50.0	257	0.27	0.13	50.0
	258	0.39	0.20	50.0	259	0.24	0.12	50.0	260	0.04	0.02	50.0
	261	0.07	0.03	50.0	262	0.05	0.02	50.0	263	0.11	0.05	50.0
	264	8.66e-03	4.33e-03	50.0	265	0.37	0.14	38.8	266	0.26	0.10	38.8
	267	0.68	0.26	38.8	268	0.68	0.26	38.8	269	0.66	0.26	38.8
	270	0.47	0.18	38.8	271	0.16	0.06	38.8	272	0.08	0.03	38.8
	273	0.27	0.11	38.8	275	0.13	0.05	38.8	277	0.16	0.06	38.8
	279	0.25	0.10	38.8								
68	1	2.82	10.57	375.0	5	3.72	13.77	370.0	6	2.89	10.70	370.0
	12	3.41	12.61	370.0	16	2.32	8.72	375.0	17	2.74	10.29	375.0
	21	2.15	7.95	370.0	22	2.83	10.46	370.0	28	2.60	9.63	370.0
	29	0.33	1.12	340.0	30	0.33	1.12	340.0	31	0.23	0.79	340.0
	32	0.21	0.71	340.0	33	0.20	0.66	340.0	34	0.20	0.67	340.0
	35	0.16	0.56	340.0	36	0.13	0.44	340.0	40	2.47	9.25	375.0
	41	2.53	9.48	375.0	45	2.05	7.59	370.0	46	3.28	12.14	370.0
	47	3.26e-03	1.14e-03	35.0	56	2.82	10.59	375.0	57	2.44	9.15	375.0
	59	2.58	9.55	370.0	60	3.29	12.17	370.0	62	3.96	14.64	370.0
	66	3.07	11.53	375.0	67	2.19	8.22	375.0	69	2.62	9.69	370.0
	70	3.66	13.54	370.0	76	1.51	5.67	375.0	77	2.13	7.99	375.0
	78	0.01	4.38e-03	35.0	79	0.01	4.43e-03	35.0	81	3.06	11.31	370.0
	82	3.97	14.70	370.0	83	6.31e-03	2.21e-03	35.0	84	0.01	4.71e-03	35.0
	85	0.01	4.20e-03	35.0	86	0.02	7.72e-03	35.0	93	2.00	7.50	375.0
	94	2.67	10.00	375.0	99	2.52	9.34	370.0	100	3.56	13.18	370.0
	102	0.02	5.37e-03	35.0	103	7.36e-03	2.58e-03	35.0	104	0.05	0.02	35.0
	105	0.04	0.02	35.0	109	2.17	8.13	375.0	110	3.00	11.24	375.0
	115	2.97	11.00	370.0	116	3.48	12.86	370.0	119	0.02	7.08e-03	35.0
	120	0.02	7.44e-03	35.0	121	0.02	6.50e-03	35.0	122	1.43	5.36	375.0
	125	2.57	9.64	375.0	126	3.24	12.13	375.0	127	3.13	11.75	375.0
	131	3.03	11.20	370.0	132	3.20	11.85	370.0	134	0.01	4.70e-03	35.0
	138	2.54	9.53	375.0	141	2.85	10.68	375.0	142	1.92	7.22	375.0
	143	3.06	11.49	375.0	145	4.18	15.46	370.0	147	3.40	12.57	370.0
	148	3.10	11.48	370.0	150	0.02	6.81e-03	35.0	158	1.86	6.97	375.0
	159	0.29	0.46	155.0	164	0.35	0.14	38.8	165	0.40	0.62	155.0
	166	0.31	0.48	155.0	167	0.33	0.51	155.0	168	0.32	0.50	155.0
	169	0.10	0.04	38.8	172	0.15	0.06	38.8	173	0.30	0.12	38.8
	174	0.36	0.14	38.8	175	0.35	0.14	38.8	176	0.10	0.04	38.8
	177	0.06	0.02	38.8	178	0.07	0.03	38.8	179	0.13	0.05	38.8
	181	0.36	0.56	155.0	183	0.14	0.07	50.0	188	0.04	0.02	50.0
	189	0.02	0.01	50.0	190	0.01	5.13e-03	50.0	191	0.05	0.02	50.0
	192	0.08	0.04	50.0	193	0.02	0.01	50.0	196	0.08	0.04	50.0
	197	0.08	0.04	50.0	198	0.23	0.11	50.0	199	0.21	0.11	50.0
	200	0.02	8.98e-03	50.0	201	0.04	0.02	50.0	202	0.04	0.02	50.0
	203	0.07	0.03	50.0	205	1.79e-03	8.93e-04	50.0	211	0.45	0.17	38.8
	212	0.16	0.06	38.8	215	0.25	0.10	38.8	216	0.43	0.17	38.8
	217	0.45	0.17	38.8	218	0.47	0.18	38.8	219	0.08	0.03	38.8
	220	0.09	0.04	38.8	221	0.19	0.08	38.8	224	8.81e-03	4.41e-03	50.0
	225	0.02	8.89e-03	50.0	226	0.02	0.01	50.0	227	7.00e-03	3.50e-03	50.0
	228	0.04	0.02	50.0	229	0.02	0.01	50.0	230	0.03	0.01	50.0
	231	0.05	0.03	50.0	232	0.02	0.01	50.0	233	0.14	0.07	50.0
	234	0.13	0.06	50.0	235	0.02	0.01	50.0	236	0.03	0.02	50.0
	237	0.03	0.02	50.0	238	0.04	0.02	50.0	239	0.04	0.02	50.0
	240	0.42	0.16	38.8	241	0.11	0.04	38.8	242	0.19	0.07	38.8
	243	0.37	0.14	38.8	244	0.40	0.16	38.8	245	0.41	0.16	38.8
	246	0.07	0.03	38.8	247	0.08	0.03	38.8	248	0.16	0.06	38.8
	249	0.11	0.06	50.0	250	0.12	0.06	50.0	251	0.02	9.81e-03	50.0

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
	252	0.04	0.02	50.0	253	0.04	0.02	50.0	254	0.05	0.02	50.0
	255	0.06	0.03	50.0	256	0.12	0.06	50.0	257	0.19	0.10	50.0
	258	0.30	0.15	50.0	259	0.29	0.14	50.0	260	0.03	0.01	50.0
	261	0.05	0.03	50.0	262	0.06	0.03	50.0	263	0.10	0.05	50.0
	264	0.04	0.02	50.0	265	0.41	0.16	38.8	266	0.31	0.12	38.8
	267	0.41	0.16	38.8	268	0.48	0.18	38.8	269	0.51	0.20	38.8
	270	0.56	0.22	38.8	271	0.09	0.04	38.8	272	0.12	0.05	38.8
	273	0.26	0.10	38.8	275	0.13	0.05	38.8	277	0.19	0.07	38.8
	279	0.32	0.12	38.8								
69	1	2.68	10.07	375.0	5	3.65	13.49	370.0	6	2.80	10.35	370.0
	12	3.39	12.53	370.0	16	2.39	8.97	375.0	17	2.62	9.83	375.0
	21	2.15	7.97	370.0	22	2.75	10.16	370.0	28	2.54	9.40	370.0
	29	0.30	1.01	340.0	30	0.25	0.86	340.0	31	0.21	0.70	340.0
	32	0.19	0.63	340.0	33	0.18	0.60	340.0	34	0.19	0.65	340.0
	35	0.16	0.54	340.0	36	0.11	0.39	340.0	40	2.49	9.35	375.0
	41	2.41	9.05	375.0	45	2.08	7.70	370.0	46	3.34	12.35	370.0
	47	9.78e-03	3.42e-03	35.0	56	2.80	10.50	375.0	57	2.34	8.78	375.0
	59	2.74	10.16	370.0	60	3.29	12.17	370.0	62	3.71	13.73	370.0
	66	3.02	11.33	375.0	67	2.10	7.88	375.0	69	2.75	10.17	370.0
	70	3.60	13.32	370.0	76	1.50	5.61	375.0	77	2.06	7.71	375.0
	78	3.78e-03	1.32e-03	35.0	79	0.01	5.18e-03	35.0	81	3.10	11.49	370.0
	82	3.86	14.30	370.0	83	0.02	6.42e-03	35.0	84	0.01	4.96e-03	35.0
	85	0.02	5.44e-03	35.0	86	0.02	6.56e-03	35.0	93	2.13	7.97	375.0
	94	2.66	9.99	375.0	99	2.48	9.17	370.0	100	3.40	12.57	370.0
	102	0.02	7.24e-03	35.0	103	7.74e-03	2.71e-03	35.0	104	0.03	9.40e-03	35.0
	105	0.03	8.81e-03	35.0	109	2.25	8.42	375.0	110	2.95	11.07	375.0
	115	3.07	11.35	370.0	116	3.32	12.27	370.0	119	0.02	7.78e-03	35.0
	120	0.02	8.44e-03	35.0	121	0.03	9.52e-03	35.0	122	1.44	5.40	375.0
	125	2.59	9.70	375.0	126	3.16	11.86	375.0	127	2.98	11.17	375.0
	131	3.07	11.34	370.0	132	3.12	11.53	370.0	134	0.02	6.64e-03	35.0
	138	2.57	9.65	375.0	141	2.83	10.60	375.0	142	1.86	6.97	375.0
	143	2.92	10.95	375.0	145	3.98	14.71	370.0	147	3.37	12.46	370.0
	148	3.03	11.20	370.0	150	8.00e-03	2.80e-03	35.0	158	1.81	6.80	375.0
	159	0.33	0.52	155.0	164	0.27	0.11	38.8	165	0.36	0.55	155.0
	166	0.31	0.48	155.0	167	0.39	0.61	155.0	168	0.31	0.49	155.0
	169	0.09	0.03	38.8	172	0.13	0.05	38.8	173	0.32	0.12	38.8
	174	0.33	0.13	38.8	175	0.29	0.11	38.8	176	0.08	0.03	38.8
	177	0.04	0.02	38.8	178	0.05	0.02	38.8	179	0.12	0.05	38.8
	181	0.31	0.49	155.0	183	9.41e-03	4.70e-03	50.0	188	9.83e-03	4.92e-03	50.0
	189	0.03	0.02	50.0	190	0.04	0.02	50.0	191	8.31e-03	4.15e-03	50.0
	192	7.51e-03	3.75e-03	50.0	193	0.03	0.02	50.0	196	0.05	0.03	50.0
	197	0.08	0.04	50.0	198	0.19	0.09	50.0	199	0.17	0.08	50.0
	200	0.04	0.02	50.0	201	0.04	0.02	50.0	202	0.04	0.02	50.0
	203	0.08	0.04	50.0	205	0.03	0.02	50.0	211	0.45	0.17	38.8
	212	0.16	0.06	38.8	215	0.20	0.08	38.8	216	0.48	0.19	38.8
	217	0.43	0.17	38.8	218	0.35	0.14	38.8	219	0.06	0.02	38.8
	220	0.07	0.03	38.8	221	0.14	0.05	38.8	224	0.03	0.01	50.0
	225	5.22e-03	2.61e-03	50.0	226	0.03	0.02	50.0	227	0.04	0.02	50.0
	228	7.73e-03	3.87e-03	50.0	229	6.84e-03	3.42e-03	50.0	230	0.03	0.01	50.0
	231	8.28e-03	4.14e-03	50.0	232	0.02	8.64e-03	50.0	233	0.10	0.05	50.0
	234	0.09	0.04	50.0	235	0.04	0.02	50.0	236	0.03	0.02	50.0
	237	0.04	0.02	50.0	238	0.05	0.02	50.0	239	0.04	0.02	50.0
	240	0.37	0.14	38.8	241	0.11	0.04	38.8	242	0.16	0.06	38.8
	243	0.40	0.16	38.8	244	0.38	0.15	38.8	245	0.33	0.13	38.8
	246	0.05	0.02	38.8	247	0.05	0.02	38.8	248	0.13	0.05	38.8
	249	0.02	0.01	50.0	250	0.06	0.03	50.0	251	0.03	0.01	50.0
	252	0.04	0.02	50.0	253	0.01	5.11e-03	50.0	254	6.54e-03	3.27e-03	50.0
	255	0.06	0.03	50.0	256	0.09	0.04	50.0	257	0.20	0.10	50.0
	258	0.27	0.13	50.0	259	0.24	0.12	50.0	260	0.04	0.02	50.0
	261	0.04	0.02	50.0	262	0.04	0.02	50.0	263	0.10	0.05	50.0
	264	0.08	0.04	50.0	265	0.50	0.19	38.8	266	0.23	0.09	38.8
	267	0.29	0.11	38.8	268	0.56	0.22	38.8	269	0.50	0.19	38.8
	270	0.37	0.15	38.8	271	0.09	0.03	38.8	272	0.15	0.06	38.8
	273	0.14	0.05	38.8	275	0.10	0.04	38.8	277	0.14	0.06	38.8
	279	0.21	0.08	38.8								
70	1	2.55	9.57	375.0	5	2.65	9.81	370.0	6	3.37	12.47	370.0
	12	2.75	10.19	370.0	16	1.88	7.06	375.0	17	2.46	9.23	375.0
	21	3.42	12.67	370.0	22	3.30	12.22	370.0	28	3.41	12.60	370.0
	29	0.44	1.50	340.0	30	0.37	1.27	340.0	31	0.23	0.77	340.0
	32	0.21	0.72	340.0	33	0.19	0.63	340.0	34	0.15	0.51	340.0
	35	0.12	0.42	340.0	36	0.11	0.37	340.0	40	1.97	7.38	375.0
	41	2.53	9.48	375.0	45	3.32	12.29	370.0	46	2.50	9.26	370.0
	47	0.02	8.35e-03	35.0	56	1.99	7.45	375.0	57	2.43	9.12	375.0
	59	2.62	9.69	370.0	60	2.60	9.63	370.0	62	3.36	12.43	370.0



## RISULTATI NODALI

### LEGENDA RISULTATI NODALI

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

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

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

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
		mm	mm	mm			
1	1	-0.06	4.72e-03	-0.03	1.17e-06	-1.66e-05	-1.89e-06
1	2	-0.06	5.34e-03	-0.04	1.04e-06	-1.86e-05	-2.10e-06
1	3	-0.07	4.02e-03	-0.04	1.90e-06	-1.62e-05	-2.30e-06
1	4	-0.07	4.06e-03	-0.04	1.91e-06	-1.64e-05	-2.30e-06
1	5	-0.08	5.57e-03	-0.05	1.58e-06	-2.13e-05	-2.83e-06
1	6	-0.08	5.61e-03	-0.05	1.59e-06	-2.15e-05	-2.83e-06
1	7	-0.06	3.40e-03	-0.03	0.0	-1.21e-05	-2.44e-06
1	8	-0.06	3.44e-03	-0.03	0.0	-1.24e-05	-2.43e-06
1	9	-0.07	4.96e-03	-0.03	0.0	-1.73e-05	-2.96e-06
1	10	-0.07	4.99e-03	-0.03	0.0	-1.75e-05	-2.96e-06
1	11	-0.07	4.10e-03	-0.04	1.93e-06	-1.66e-05	-2.30e-06
1	12	-0.08	5.11e-03	-0.04	1.68e-06	-1.98e-05	-2.67e-06
1	13	-0.08	5.18e-03	-0.05	1.70e-06	-2.02e-05	-2.67e-06
1	14	-0.06	3.48e-03	-0.03	0.0	-1.26e-05	-2.43e-06
1	15	-0.07	4.49e-03	-0.03	0.0	-1.57e-05	-2.80e-06
1	16	-0.07	4.57e-03	-0.03	0.0	-1.62e-05	-2.80e-06
1	17	-0.09	6.80e-03	-0.05	1.73e-06	-2.35e-05	-2.87e-06
1	18	-0.09	6.84e-03	-0.05	1.75e-06	-2.37e-05	-2.87e-06
1	19	-0.09	7.89e-03	-0.05	1.51e-06	-2.71e-05	-3.24e-06
1	20	-0.09	7.93e-03	-0.05	1.53e-06	-2.73e-05	-3.24e-06
1	21	-0.07	6.19e-03	-0.03	0.0	-1.95e-05	-3.00e-06
1	22	-0.07	6.22e-03	-0.03	0.0	-1.97e-05	-3.00e-06
1	23	-0.08	7.27e-03	-0.04	0.0	-2.31e-05	-3.37e-06
1	24	-0.08	7.31e-03	-0.04	0.0	-2.33e-05	-3.37e-06
1	25	-0.09	4.54e-03	-0.04	1.79e-06	-1.70e-05	-3.09e-06
1	26	-0.09	4.58e-03	-0.04	1.80e-06	-1.73e-05	-3.09e-06
1	27	-0.09	5.62e-03	-0.04	1.57e-06	-2.06e-05	-3.46e-06
1	28	-0.09	5.66e-03	-0.05	1.58e-06	-2.09e-05	-3.46e-06
1	29	-0.08	3.92e-03	-0.03	0.0	-1.30e-05	-3.22e-06
1	30	-0.08	3.96e-03	-0.03	0.0	-1.32e-05	-3.22e-06
1	31	-0.08	5.01e-03	-0.03	0.0	-1.66e-05	-3.59e-06
1	32	-0.08	5.05e-03	-0.03	0.0	-1.68e-05	-3.59e-06
1	33	1.06	-0.04	-0.04	1.53e-05	6.19e-04	6.52e-05
1	34	1.34	-0.08	-0.04	3.29e-05	7.76e-04	1.23e-04
1	35	-1.45	0.09	-0.02	-3.06e-05	-8.04e-04	-1.27e-04
1	36	-1.17	0.05	-0.02	-1.30e-05	-6.47e-04	-6.86e-05
1	37	1.08	-0.03	-0.04	1.26e-05	6.42e-04	5.98e-05
1	38	1.32	-0.08	-0.04	3.57e-05	7.53e-04	1.29e-04
1	39	-1.43	0.09	-0.02	-3.34e-05	-7.81e-04	-1.32e-04
1	40	-1.19	0.04	-0.02	-1.03e-05	-6.70e-04	-6.33e-05
1	41	0.39	-2.58e-03	-0.04	3.38e-06	2.67e-04	-9.54e-05
1	42	0.67	-0.04	-0.04	2.10e-05	4.24e-04	-3.71e-05
1	43	-0.78	0.05	-0.03	-1.87e-05	-4.51e-04	3.36e-05
1	44	-0.50	9.55e-03	-0.03	-1.07e-06	-2.95e-04	9.20e-05
1	45	0.41	3.63e-03	-0.04	0.0	2.90e-04	-1.01e-04
1	46	0.65	-0.05	-0.04	2.38e-05	4.01e-04	-3.17e-05

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
1	47	-0.76	0.06	-0.03	-2.15e-05	-4.29e-04	2.83e-05
1	48	-0.52	3.34e-03	-0.03	1.66e-06	-3.17e-04	9.73e-05
1	49	-0.14	0.05	-0.03	-2.14e-05	-6.15e-05	-7.01e-05
1	50	0.79	-0.08	-0.04	3.75e-05	4.61e-04	1.24e-04
1	51	-0.89	0.09	-0.02	-3.52e-05	-4.88e-04	-1.28e-04
1	52	0.03	-0.04	-0.03	2.37e-05	3.40e-05	6.67e-05
1	53	-0.34	0.06	-0.03	-2.50e-05	-1.67e-04	-1.18e-04
1	54	0.59	-0.07	-0.04	3.39e-05	3.55e-04	7.61e-05
1	55	-0.69	0.08	-0.03	-3.16e-05	-3.83e-04	-7.96e-05
1	56	0.23	-0.05	-0.03	2.73e-05	1.40e-04	1.15e-04
1	57	-0.08	0.07	-0.03	-3.05e-05	1.43e-05	-8.80e-05
1	58	0.73	-0.10	-0.04	4.66e-05	3.85e-04	1.42e-04
1	59	-0.83	0.11	-0.02	-4.43e-05	-4.13e-04	-1.46e-04
1	60	-0.03	-0.06	-0.03	3.28e-05	-4.18e-05	8.45e-05
1	61	-0.28	0.08	-0.03	-3.41e-05	-9.14e-05	-1.36e-04
1	62	0.53	-0.09	-0.04	4.30e-05	2.79e-04	9.40e-05
1	63	-0.63	0.10	-0.03	-4.07e-05	-3.07e-04	-9.74e-05
1	64	0.17	-0.08	-0.03	3.64e-05	6.39e-05	1.33e-04
1	65	0.91	-0.04	-0.04	1.58e-05	5.33e-04	6.98e-05
1	66	1.21	-0.08	-0.04	3.50e-05	7.04e-04	1.35e-04
1	67	-1.32	0.09	-0.02	-3.27e-05	-7.32e-04	-1.39e-04
1	68	-1.01	0.05	-0.02	-1.35e-05	-5.60e-04	-7.33e-05
1	69	0.93	-0.03	-0.04	1.25e-05	5.57e-04	6.44e-05
1	70	1.19	-0.09	-0.04	3.83e-05	6.80e-04	1.41e-04
1	71	-1.30	0.10	-0.02	-3.60e-05	-7.07e-04	-1.44e-04
1	72	-1.03	0.04	-0.02	-1.02e-05	-5.84e-04	-6.79e-05
1	73	0.43	-4.01e-03	-0.04	4.00e-06	3.01e-04	-1.06e-04
1	74	0.73	-0.05	-0.04	2.33e-05	4.73e-04	-4.07e-05
1	75	-0.84	0.05	-0.02	-2.10e-05	-5.00e-04	3.72e-05
1	76	-0.53	0.01	-0.03	-1.70e-06	-3.29e-04	1.03e-04
1	77	0.45	3.14e-03	-0.04	0.0	3.25e-04	-1.11e-04
1	78	0.71	-0.05	-0.04	2.65e-05	4.49e-04	-3.53e-05
1	79	-0.82	0.06	-0.02	-2.42e-05	-4.76e-04	3.18e-05
1	80	-0.55	3.84e-03	-0.03	1.57e-06	-3.53e-04	1.08e-04
1	81	-0.23	0.06	-0.03	-2.37e-05	-1.10e-04	-7.93e-05
1	82	0.79	-0.09	-0.04	4.06e-05	4.62e-04	1.38e-04
1	83	-0.90	0.09	-0.02	-3.82e-05	-4.89e-04	-1.42e-04
1	84	0.12	-0.05	-0.03	2.60e-05	8.24e-05	7.59e-05
1	85	-0.37	0.07	-0.03	-2.72e-05	-1.79e-04	-1.32e-04
1	86	0.65	-0.08	-0.04	3.70e-05	3.92e-04	8.56e-05
1	87	-0.75	0.08	-0.02	-3.47e-05	-4.20e-04	-8.91e-05
1	88	0.27	-0.06	-0.04	2.95e-05	1.52e-04	1.29e-04
1	89	-0.16	0.08	-0.03	-3.46e-05	-2.99e-05	-9.74e-05
1	90	0.72	-0.11	-0.04	5.14e-05	3.82e-04	1.57e-04
1	91	-0.83	0.12	-0.02	-4.91e-05	-4.09e-04	-1.60e-04
1	92	0.05	-0.07	-0.03	3.69e-05	2.38e-06	9.40e-05
1	93	-0.30	0.09	-0.03	-3.81e-05	-9.93e-05	-1.50e-04
1	94	0.57	-0.10	-0.04	4.79e-05	3.12e-04	1.04e-04
1	95	-0.68	0.11	-0.03	-4.56e-05	-3.40e-04	-1.07e-04
1	96	0.20	-0.08	-0.03	4.04e-05	7.18e-05	1.47e-04
2	1	0.0	0.0	0.0	0.0	0.0	0.0
2	2	0.0	0.0	0.0	0.0	0.0	0.0
2	3	0.0	0.0	0.0	0.0	0.0	0.0
2	4	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0
2	6	0.0	0.0	0.0	0.0	0.0	0.0
2	7	0.0	0.0	0.0	0.0	0.0	0.0
2	8	0.0	0.0	0.0	0.0	0.0	0.0
2	9	0.0	0.0	0.0	0.0	0.0	0.0
2	10	0.0	0.0	0.0	0.0	0.0	0.0
2	11	0.0	0.0	0.0	0.0	0.0	0.0
2	12	0.0	0.0	0.0	0.0	0.0	0.0
2	13	0.0	0.0	0.0	0.0	0.0	0.0
2	14	0.0	0.0	0.0	0.0	0.0	0.0
2	15	0.0	0.0	0.0	0.0	0.0	0.0
2	16	0.0	0.0	0.0	0.0	0.0	0.0
2	17	0.0	0.0	0.0	0.0	0.0	0.0
2	18	0.0	0.0	0.0	0.0	0.0	0.0
2	19	0.0	0.0	0.0	0.0	0.0	0.0
2	20	0.0	0.0	0.0	0.0	0.0	0.0
2	21	0.0	0.0	0.0	0.0	0.0	0.0
2	22	0.0	0.0	0.0	0.0	0.0	0.0
2	23	0.0	0.0	0.0	0.0	0.0	0.0
2	24	0.0	0.0	0.0	0.0	0.0	0.0

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
2	25	0.0	0.0	0.0	0.0	0.0	0.0
2	26	0.0	0.0	0.0	0.0	0.0	0.0
2	27	0.0	0.0	0.0	0.0	0.0	0.0
2	28	0.0	0.0	0.0	0.0	0.0	0.0
2	29	0.0	0.0	0.0	0.0	0.0	0.0
2	30	0.0	0.0	0.0	0.0	0.0	0.0
2	31	0.0	0.0	0.0	0.0	0.0	0.0
2	32	0.0	0.0	0.0	0.0	0.0	0.0
2	33	0.0	0.0	0.0	0.0	0.0	0.0
2	34	0.0	0.0	0.0	0.0	0.0	0.0
2	35	0.0	0.0	0.0	0.0	0.0	0.0
2	36	0.0	0.0	0.0	0.0	0.0	0.0
2	37	0.0	0.0	0.0	0.0	0.0	0.0
2	38	0.0	0.0	0.0	0.0	0.0	0.0
2	39	0.0	0.0	0.0	0.0	0.0	0.0
2	40	0.0	0.0	0.0	0.0	0.0	0.0
2	41	0.0	0.0	0.0	0.0	0.0	0.0
2	42	0.0	0.0	0.0	0.0	0.0	0.0
2	43	0.0	0.0	0.0	0.0	0.0	0.0
2	44	0.0	0.0	0.0	0.0	0.0	0.0
2	45	0.0	0.0	0.0	0.0	0.0	0.0
2	46	0.0	0.0	0.0	0.0	0.0	0.0
2	47	0.0	0.0	0.0	0.0	0.0	0.0
2	48	0.0	0.0	0.0	0.0	0.0	0.0
2	49	0.0	0.0	0.0	0.0	0.0	0.0
2	50	0.0	0.0	0.0	0.0	0.0	0.0
2	51	0.0	0.0	0.0	0.0	0.0	0.0
2	52	0.0	0.0	0.0	0.0	0.0	0.0
2	53	0.0	0.0	0.0	0.0	0.0	0.0
2	54	0.0	0.0	0.0	0.0	0.0	0.0
2	55	0.0	0.0	0.0	0.0	0.0	0.0
2	56	0.0	0.0	0.0	0.0	0.0	0.0
2	57	0.0	0.0	0.0	0.0	0.0	0.0
2	58	0.0	0.0	0.0	0.0	0.0	0.0
2	59	0.0	0.0	0.0	0.0	0.0	0.0
2	60	0.0	0.0	0.0	0.0	0.0	0.0
2	61	0.0	0.0	0.0	0.0	0.0	0.0
2	62	0.0	0.0	0.0	0.0	0.0	0.0
2	63	0.0	0.0	0.0	0.0	0.0	0.0
2	64	0.0	0.0	0.0	0.0	0.0	0.0
2	65	0.0	0.0	0.0	0.0	0.0	0.0
2	66	0.0	0.0	0.0	0.0	0.0	0.0
2	67	0.0	0.0	0.0	0.0	0.0	0.0
2	68	0.0	0.0	0.0	0.0	0.0	0.0
2	69	0.0	0.0	0.0	0.0	0.0	0.0
2	70	0.0	0.0	0.0	0.0	0.0	0.0
2	71	0.0	0.0	0.0	0.0	0.0	0.0
2	72	0.0	0.0	0.0	0.0	0.0	0.0
2	73	0.0	0.0	0.0	0.0	0.0	0.0
2	74	0.0	0.0	0.0	0.0	0.0	0.0
2	75	0.0	0.0	0.0	0.0	0.0	0.0
2	76	0.0	0.0	0.0	0.0	0.0	0.0
2	77	0.0	0.0	0.0	0.0	0.0	0.0
2	78	0.0	0.0	0.0	0.0	0.0	0.0
2	79	0.0	0.0	0.0	0.0	0.0	0.0
2	80	0.0	0.0	0.0	0.0	0.0	0.0
2	81	0.0	0.0	0.0	0.0	0.0	0.0
2	82	0.0	0.0	0.0	0.0	0.0	0.0
2	83	0.0	0.0	0.0	0.0	0.0	0.0
2	84	0.0	0.0	0.0	0.0	0.0	0.0
2	85	0.0	0.0	0.0	0.0	0.0	0.0
2	86	0.0	0.0	0.0	0.0	0.0	0.0
2	87	0.0	0.0	0.0	0.0	0.0	0.0
2	88	0.0	0.0	0.0	0.0	0.0	0.0
2	89	0.0	0.0	0.0	0.0	0.0	0.0
2	90	0.0	0.0	0.0	0.0	0.0	0.0
2	91	0.0	0.0	0.0	0.0	0.0	0.0
2	92	0.0	0.0	0.0	0.0	0.0	0.0
2	93	0.0	0.0	0.0	0.0	0.0	0.0
2	94	0.0	0.0	0.0	0.0	0.0	0.0
2	95	0.0	0.0	0.0	0.0	0.0	0.0
2	96	0.0	0.0	0.0	0.0	0.0	0.0
3	1	-0.03	4.99e-03	-0.67	3.31e-06	-3.28e-04	-1.19e-06
3	2	-0.04	4.71e-03	-0.75	3.29e-06	-3.90e-04	-1.09e-06



Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
3	3	-0.04	6.04e-03	-0.67	7.08e-06	-4.16e-04	-1.22e-06
3	4	-0.04	6.06e-03	-0.68	7.03e-06	-4.17e-04	-1.22e-06
3	5	-0.04	5.34e-03	-0.86	7.04e-06	-5.70e-04	0.0
3	6	-0.04	5.36e-03	-0.86	6.99e-06	-5.71e-04	0.0
3	7	-0.02	3.89e-03	-0.43	3.81e-06	-2.62e-04	0.0
3	8	-0.02	3.91e-03	-0.44	3.76e-06	-2.63e-04	0.0
3	9	-0.03	3.20e-03	-0.61	3.77e-06	-4.16e-04	0.0
3	10	-0.03	3.21e-03	-0.62	3.72e-06	-4.17e-04	0.0
3	11	-0.04	6.07e-03	-0.69	6.99e-06	-4.18e-04	-1.22e-06
3	12	-0.04	5.55e-03	-0.80	7.05e-06	-5.23e-04	-1.03e-06
3	13	-0.04	5.59e-03	-0.82	6.96e-06	-5.26e-04	-1.04e-06
3	14	-0.02	3.93e-03	-0.45	3.72e-06	-2.64e-04	0.0
3	15	-0.03	3.41e-03	-0.56	3.78e-06	-3.69e-04	0.0
3	16	-0.03	3.44e-03	-0.57	3.69e-06	-3.72e-04	0.0
3	17	-0.05	7.27e-03	-0.96	5.01e-06	-4.66e-04	-1.69e-06
3	18	-0.05	7.28e-03	-0.97	4.97e-06	-4.68e-04	-1.69e-06
3	19	-0.06	6.78e-03	-1.09	4.98e-06	-5.74e-04	-1.51e-06
3	20	-0.06	6.80e-03	-1.10	4.94e-06	-5.76e-04	-1.51e-06
3	21	-0.04	5.12e-03	-0.72	1.74e-06	-3.12e-04	-1.37e-06
3	22	-0.04	5.14e-03	-0.73	1.69e-06	-3.14e-04	-1.38e-06
3	23	-0.04	4.63e-03	-0.85	1.71e-06	-4.20e-04	-1.19e-06
3	24	-0.04	4.65e-03	-0.86	1.66e-06	-4.21e-04	-1.19e-06
3	25	-0.04	6.25e-03	-0.67	7.14e-06	-4.16e-04	-1.28e-06
3	26	-0.04	6.27e-03	-0.68	7.10e-06	-4.17e-04	-1.29e-06
3	27	-0.04	5.77e-03	-0.80	7.12e-06	-5.24e-04	-1.10e-06
3	28	-0.04	5.78e-03	-0.81	7.07e-06	-5.25e-04	-1.10e-06
3	29	-0.02	4.11e-03	-0.43	3.87e-06	-2.62e-04	0.0
3	30	-0.02	4.12e-03	-0.44	3.83e-06	-2.63e-04	0.0
3	31	-0.03	3.62e-03	-0.56	3.84e-06	-3.69e-04	0.0
3	32	-0.03	3.64e-03	-0.57	3.80e-06	-3.71e-04	0.0
3	33	0.42	0.18	-0.46	-6.15e-04	8.42e-05	-2.83e-06
3	34	0.45	-0.06	-0.46	2.70e-04	9.30e-05	4.03e-05
3	35	-0.50	0.07	-0.65	-2.61e-04	-8.05e-04	-4.18e-05
3	36	-0.48	-0.17	-0.64	6.24e-04	-7.96e-04	1.29e-06
3	37	0.42	0.18	-0.46	-5.82e-04	8.39e-05	-3.40e-06
3	38	0.44	-0.06	-0.46	2.37e-04	9.33e-05	4.08e-05
3	39	-0.50	0.07	-0.65	-2.28e-04	-8.05e-04	-4.24e-05
3	40	-0.48	-0.17	-0.64	5.91e-04	-7.96e-04	1.86e-06
3	41	0.35	0.09	-0.49	-2.78e-04	-1.32e-05	-9.03e-06
3	42	0.37	-0.16	-0.48	6.07e-04	-4.46e-06	3.41e-05
3	43	-0.43	0.17	-0.62	-5.98e-04	-7.08e-04	-3.56e-05
3	44	-0.40	-0.08	-0.62	2.88e-04	-6.99e-04	7.49e-06
3	45	0.35	0.08	-0.49	-2.45e-04	-1.35e-05	-9.60e-06
3	46	0.37	-0.15	-0.48	5.74e-04	-4.17e-06	3.46e-05
3	47	-0.43	0.16	-0.62	-5.64e-04	-7.08e-04	-3.62e-05
3	48	-0.41	-0.07	-0.62	2.54e-04	-6.99e-04	8.06e-06
3	49	0.07	0.43	-0.53	-1.52e-03	-2.37e-04	-6.68e-05
3	50	0.15	-0.39	-0.52	1.43e-03	-2.08e-04	7.69e-05
3	51	-0.21	0.40	-0.59	-1.42e-03	-5.04e-04	-7.85e-05
3	52	-0.12	-0.43	-0.57	1.53e-03	-4.75e-04	6.52e-05
3	53	0.04	0.40	-0.54	-1.42e-03	-2.66e-04	-6.86e-05
3	54	0.13	-0.42	-0.52	1.53e-03	-2.37e-04	7.51e-05
3	55	-0.19	0.43	-0.58	-1.52e-03	-4.75e-04	-7.66e-05
3	56	-0.10	-0.40	-0.56	1.43e-03	-4.46e-04	6.71e-05
3	57	0.07	0.41	-0.53	-1.41e-03	-2.38e-04	-6.87e-05
3	58	0.15	-0.37	-0.52	1.32e-03	-2.07e-04	7.88e-05
3	59	-0.20	0.38	-0.59	-1.31e-03	-5.05e-04	-8.04e-05
3	60	-0.13	-0.40	-0.57	1.42e-03	-4.74e-04	6.71e-05
3	61	0.05	0.38	-0.54	-1.31e-03	-2.67e-04	-7.05e-05
3	62	0.12	-0.40	-0.52	1.42e-03	-2.36e-04	7.70e-05
3	63	-0.18	0.41	-0.58	-1.41e-03	-4.76e-04	-7.85e-05
3	64	-0.11	-0.37	-0.56	1.32e-03	-4.45e-04	6.90e-05
3	65	0.34	0.18	-0.48	-6.88e-04	7.66e-06	0.0
3	66	0.37	-0.06	-0.48	2.41e-04	1.76e-05	3.77e-05
3	67	-0.42	0.07	-0.63	-2.32e-04	-7.30e-04	-3.92e-05
3	68	-0.40	-0.18	-0.62	6.97e-04	-7.20e-04	0.0
3	69	0.34	0.18	-0.48	-6.79e-04	7.32e-06	-3.37e-06
3	70	0.37	-0.06	-0.48	2.32e-04	1.79e-05	4.01e-05
3	71	-0.42	0.07	-0.63	-2.23e-04	-7.30e-04	-4.17e-05
3	72	-0.40	-0.18	-0.62	6.88e-04	-7.19e-04	1.83e-06
3	73	0.38	0.08	-0.48	-2.89e-04	3.32e-05	-7.16e-06
3	74	0.41	-0.16	-0.47	6.40e-04	4.31e-05	3.15e-05
3	75	-0.47	0.17	-0.63	-6.31e-04	-7.55e-04	-3.31e-05
3	76	-0.44	-0.08	-0.63	2.98e-04	-7.45e-04	5.62e-06

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
3	77	0.39	0.09	-0.48	-2.80e-04	3.29e-05	-9.57e-06
3	78	0.41	-0.16	-0.47	6.31e-04	4.35e-05	3.39e-05
3	79	-0.46	0.17	-0.63	-6.22e-04	-7.56e-04	-3.55e-05
3	80	-0.44	-0.08	-0.63	2.89e-04	-7.45e-04	8.03e-06
3	81	0.04	0.43	-0.54	-1.61e-03	-2.62e-04	-5.95e-05
3	82	0.13	-0.39	-0.52	1.48e-03	-2.29e-04	6.94e-05
3	83	-0.19	0.39	-0.58	-1.48e-03	-4.83e-04	-7.10e-05
3	84	-0.10	-0.42	-0.56	1.62e-03	-4.50e-04	5.79e-05
3	85	0.06	0.40	-0.54	-1.49e-03	-2.54e-04	-6.13e-05
3	86	0.14	-0.42	-0.52	1.60e-03	-2.21e-04	6.76e-05
3	87	-0.20	0.42	-0.58	-1.60e-03	-4.91e-04	-6.91e-05
3	88	-0.11	-0.39	-0.57	1.50e-03	-4.58e-04	5.98e-05
3	89	0.05	0.43	-0.54	-1.58e-03	-2.63e-04	-6.75e-05
3	90	0.12	-0.39	-0.52	1.45e-03	-2.28e-04	7.75e-05
3	91	-0.18	0.40	-0.58	-1.45e-03	-4.84e-04	-7.90e-05
3	92	-0.11	-0.43	-0.56	1.59e-03	-4.49e-04	6.60e-05
3	93	0.06	0.40	-0.54	-1.46e-03	-2.55e-04	-6.94e-05
3	94	0.14	-0.42	-0.52	1.57e-03	-2.20e-04	7.56e-05
3	95	-0.19	0.43	-0.59	-1.57e-03	-4.92e-04	-7.71e-05
3	96	-0.12	-0.40	-0.57	1.47e-03	-4.57e-04	6.78e-05
4	1	0.0	0.0	0.0	0.0	0.0	0.0
4	2	0.0	0.0	0.0	0.0	0.0	0.0
4	3	0.0	0.0	0.0	0.0	0.0	0.0
4	4	0.0	0.0	0.0	0.0	0.0	0.0
4	5	0.0	0.0	0.0	0.0	0.0	0.0
4	6	0.0	0.0	0.0	0.0	0.0	0.0
4	7	0.0	0.0	0.0	0.0	0.0	0.0
4	8	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0
4	10	0.0	0.0	0.0	0.0	0.0	0.0
...							
845	96	-9.07	-11.65	-1.03	1.20e-03	1.48e-04	-4.58e-04
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		-31.27	-43.86	-3.71	-5.91e-03	-3.96e-03	-1.60e-03
		31.19	43.90	0.51	6.08e-03	3.90e-03	1.61e-03

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		kN	kN	kN	kN m	kN m	kN m
2	1	-2.66	-5.70	-325.02	5.99	-3.20	-6.58e-04
2	2	-3.09	-5.66	-341.14	5.91	-3.70	-2.95e-03
2	3	-2.56	-8.45	-401.90	9.02	-3.09	-1.28e-03
2	4	-2.59	-8.45	-403.49	9.02	-3.13	-1.28e-03
2	5	-3.63	-8.35	-442.21	8.82	-4.33	-7.01e-03
2	6	-3.67	-8.35	-443.81	8.82	-4.37	-7.02e-03
2	7	-1.67	-4.68	-252.97	4.93	-2.02	-6.97e-03
2	8	-1.70	-4.68	-254.57	4.92	-2.06	-6.97e-03
2	9	-2.74	-4.58	-293.29	4.73	-3.27	-0.01
2	10	-2.77	-4.58	-294.89	4.73	-3.31	-0.01
2	11	-2.62	-8.45	-405.09	9.01	-3.17	-1.28e-03
2	12	-3.31	-8.38	-430.12	8.88	-3.96	-5.29e-03
2	13	-3.38	-8.38	-433.32	8.88	-4.04	-5.30e-03
2	14	-1.73	-4.68	-256.17	4.92	-2.10	-6.98e-03
2	15	-2.42	-4.61	-281.20	4.79	-2.89	-0.01
2	16	-2.48	-4.61	-284.39	4.78	-2.97	-0.01
2	17	-3.80	-8.42	-462.37	8.86	-4.58	-1.32e-03
2	18	-3.84	-8.41	-463.97	8.86	-4.62	-1.33e-03
2	19	-4.56	-8.35	-490.60	8.72	-5.45	-5.34e-03
2	20	-4.59	-8.35	-492.20	8.72	-5.49	-5.34e-03
2	21	-2.91	-4.64	-313.45	4.77	-3.51	-7.02e-03
2	22	-2.95	-4.64	-315.05	4.76	-3.55	-7.02e-03
2	23	-3.66	-4.57	-341.68	4.63	-4.38	-0.01
2	24	-3.70	-4.57	-343.27	4.63	-4.42	-0.01
2	25	-2.57	-8.43	-401.94	8.97	-3.12	-5.53e-03
2	26	-2.61	-8.43	-403.54	8.96	-3.15	-5.54e-03
2	27	-3.32	-8.36	-430.16	8.83	-3.99	-9.55e-03
2	28	-3.36	-8.36	-431.76	8.83	-4.02	-9.55e-03
2	29	-1.68	-4.66	-253.02	4.87	-2.05	-0.01
2	30	-1.71	-4.66	-254.61	4.87	-2.09	-0.01
2	31	-2.43	-4.59	-281.24	4.74	-2.92	-0.02
2	32	-2.47	-4.59	-282.84	4.73	-2.96	-0.02
2	33	0.15	0.96	-81.98	21.29	3.05	0.57
2	34	-0.47	11.63	-48.46	11.43	2.03	0.22

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
2	35	-4.05	-23.00	-553.19	0.61	-7.44	-0.22
2	36	-4.66	-12.33	-519.66	-9.25	-8.46	-0.57
2	37	0.20	-0.71	-87.86	22.82	3.13	0.51
2	38	-0.53	13.29	-42.58	9.91	1.96	0.28
2	39	-3.99	-24.67	-559.07	2.13	-7.37	-0.28
2	40	-4.72	-10.67	-513.79	-10.77	-8.54	-0.51
2	41	0.68	-19.48	-189.75	18.32	3.99	-0.02
2	42	0.07	-8.81	-156.23	8.46	2.96	-0.37
2	43	-4.58	-2.57	-445.42	3.58	-8.37	0.36
2	44	-5.20	8.11	-411.90	-6.28	-9.40	0.01
2	45	0.74	-21.14	-195.63	19.85	4.06	-0.08
2	46	8.38e-03	-7.15	-150.35	6.94	2.89	-0.31
2	47	-4.52	-4.23	-451.30	5.10	-8.30	0.30
2	48	-5.25	9.77	-406.02	-7.80	-9.47	0.07
2	49	-0.60	-19.88	-286.02	25.56	0.58	0.70
2	50	-2.65	15.69	-174.27	-7.31	-2.84	-0.47
2	51	-1.86	-27.07	-427.38	19.35	-2.57	0.46
2	52	-3.91	8.51	-315.63	-13.51	-5.99	-0.70
2	53	-0.44	-26.01	-318.35	24.66	0.86	0.52
2	54	-2.49	9.56	-206.60	-8.20	-2.56	-0.64
2	55	-2.02	-20.94	-395.05	20.24	-2.85	0.64
2	56	-4.07	14.64	-283.30	-12.62	-6.27	-0.53
2	57	-0.41	-25.42	-305.61	30.63	0.82	0.50
2	58	-2.84	21.24	-154.67	-12.38	-3.08	-0.27
2	59	-1.67	-32.61	-446.97	24.43	-2.33	0.26
2	60	-4.10	14.05	-296.04	-18.59	-6.23	-0.50
2	61	-0.25	-31.55	-337.94	29.74	1.10	0.32
2	62	-2.68	15.11	-187.01	-13.28	-2.80	-0.44
2	63	-1.83	-26.48	-414.64	25.32	-2.61	0.44
2	64	-4.26	20.18	-263.71	-17.70	-6.50	-0.33
2	65	-0.55	1.98	-133.70	22.75	1.95	0.59
2	66	-1.15	13.67	-96.85	12.06	0.97	0.22
2	67	-3.37	-25.04	-504.80	-0.02	-6.38	-0.23
2	68	-3.96	-13.36	-467.95	-10.71	-7.36	-0.60
2	69	-0.48	0.02	-140.57	24.57	2.06	0.53
2	70	-1.23	15.63	-89.98	10.25	0.87	0.28
2	71	-3.29	-27.01	-511.67	1.79	-6.28	-0.29
2	72	-4.04	-11.40	-461.08	-12.53	-7.47	-0.54
2	73	-0.27	-21.12	-174.16	19.72	3.36	-0.04
2	74	-0.86	-9.44	-137.31	9.03	2.37	-0.40
2	75	-3.66	-1.94	-464.34	3.01	-7.78	0.40
2	76	-4.25	9.75	-427.49	-7.68	-8.77	0.03
2	77	-0.19	-23.09	-181.03	21.54	3.46	-0.10
2	78	-0.94	-7.48	-130.44	7.22	2.27	-0.34
2	79	-3.58	-3.90	-471.21	4.82	-7.68	0.34
2	80	-4.33	11.71	-420.62	-9.50	-8.87	0.09
2	81	-0.85	-21.11	-306.57	27.25	0.18	0.73
2	82	-2.83	17.84	-183.75	-8.38	-3.09	-0.49
2	83	-1.69	-29.21	-417.90	20.42	-2.32	0.48
2	84	-3.67	9.73	-295.08	-15.21	-5.59	-0.74
2	85	-0.76	-28.04	-318.71	26.35	0.60	0.54
2	86	-2.74	10.91	-195.89	-9.29	-2.67	-0.68
2	87	-1.78	-22.28	-405.76	21.33	-2.74	0.67
2	88	-3.76	16.66	-282.94	-14.30	-6.01	-0.55
2	89	-0.58	-27.65	-329.48	33.30	0.53	0.53
2	90	-3.09	24.38	-160.84	-14.42	-3.44	-0.29
2	91	-1.43	-35.76	-440.81	26.46	-1.97	0.28
2	92	-3.93	16.28	-272.17	-21.26	-5.94	-0.54
2	93	-0.50	-34.58	-341.62	32.39	0.95	0.34
2	94	-3.00	17.45	-172.98	-15.33	-3.02	-0.48
2	95	-1.51	-28.83	-428.67	27.37	-2.39	0.47
2	96	-4.02	23.21	-260.03	-20.35	-6.36	-0.35
4	1	-0.04	13.61	-186.99	-10.20	-0.03	-1.92e-03
4	2	-0.04	13.60	-198.35	-10.18	-0.04	-1.89e-03
4	3	-0.03	19.98	-192.30	-15.21	-0.04	-2.41e-03
4	4	-0.03	19.98	-193.49	-15.21	-0.04	-2.42e-03
4	5	-0.03	19.96	-220.69	-15.17	-0.04	-2.35e-03
4	6	-0.04	19.96	-221.89	-15.16	-0.04	-2.35e-03
4	7	-0.02	17.42	-127.77	-13.47	-0.02	-2.37e-03
4	8	-0.02	17.42	-128.97	-13.47	-0.02	-2.37e-03
4	9	-0.03	17.40	-156.16	-13.42	-0.03	-2.30e-03
4	10	-0.03	17.40	-157.36	-13.42	-0.03	-2.31e-03
4	11	-0.03	19.98	-194.69	-15.21	-0.04	-2.42e-03
4	12	-0.03	19.97	-212.17	-15.18	-0.04	-2.37e-03

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
4	13	-0.03	19.97	-214.57	-15.18	-0.04	-2.37e-03
4	14	-0.02	17.42	-130.17	-13.47	-0.02	-2.37e-03
4	15	-0.03	17.40	-147.65	-13.44	-0.03	-2.32e-03
4	16	-0.03	17.40	-150.04	-13.44	-0.03	-2.33e-03
4	17	-0.06	19.98	-264.04	-15.25	-0.05	-2.80e-03
4	18	-0.06	19.98	-265.24	-15.25	-0.05	-2.80e-03
4	19	-0.06	19.97	-283.91	-15.22	-0.06	-2.76e-03
4	20	-0.06	19.97	-285.11	-15.22	-0.06	-2.76e-03
4	21	-0.05	17.42	-199.51	-13.51	-0.04	-2.76e-03
4	22	-0.05	17.42	-200.71	-13.51	-0.04	-2.76e-03
4	23	-0.06	17.41	-219.39	-13.48	-0.04	-2.71e-03
4	24	-0.06	17.40	-220.58	-13.48	-0.04	-2.71e-03
4	25	-0.03	23.79	-192.29	-18.52	-0.04	-3.02e-03
4	26	-0.03	23.79	-193.49	-18.51	-0.04	-3.02e-03
4	27	-0.04	23.78	-212.17	-18.48	-0.04	-2.97e-03
4	28	-0.04	23.78	-213.37	-18.48	-0.04	-2.97e-03
4	29	-0.03	21.23	-127.77	-16.77	-0.02	-2.97e-03
4	30	-0.03	21.23	-128.97	-16.77	-0.03	-2.97e-03
4	31	-0.03	21.21	-147.64	-16.74	-0.03	-2.93e-03
4	32	-0.04	21.21	-148.84	-16.74	-0.03	-2.93e-03
4	33	1.35	9.68	-154.41	-5.03	0.11	0.01
4	34	2.16	15.06	-153.02	-11.63	0.19	0.04
4	35	-2.20	12.14	-148.02	-8.68	-0.25	-0.04
4	36	-1.38	17.53	-146.62	-15.27	-0.16	-0.02
4	37	1.40	9.71	-154.34	-5.21	0.11	0.01
4	38	2.11	15.03	-153.08	-11.45	0.18	0.04
4	39	-2.15	12.18	-147.95	-8.86	-0.24	-0.04
4	40	-1.43	17.49	-146.69	-15.10	-0.17	-0.02
4	41	1.30	11.81	-153.23	-7.77	0.12	-0.03
4	42	2.12	17.19	-151.84	-14.37	0.20	-4.80e-03
4	43	-2.15	10.01	-149.20	-5.94	-0.26	1.53e-03
4	44	-1.34	15.39	-147.80	-12.54	-0.18	0.02
4	45	1.36	11.84	-153.16	-7.95	0.13	-0.03
4	46	2.07	17.16	-151.91	-14.19	0.20	-4.39e-03
4	47	-2.10	10.05	-149.13	-6.12	-0.25	1.12e-03
4	48	-1.39	15.36	-147.87	-12.36	-0.18	0.03
4	49	-0.84	4.26	-153.80	1.39	-0.11	-0.03
4	50	1.87	22.20	-149.15	-20.60	0.16	0.05
4	51	-1.90	5.00	-151.88	0.29	-0.22	-0.05
4	52	0.80	22.94	-147.23	-21.69	0.06	0.03
4	53	-0.85	4.90	-153.45	0.56	-0.11	-0.04
4	54	1.86	22.84	-148.80	-21.42	0.17	0.03
4	55	-1.89	4.36	-152.24	1.11	-0.22	-0.04
4	56	0.82	22.30	-147.59	-20.87	0.05	0.04
4	57	-0.67	4.38	-153.57	0.80	-0.09	-0.03
4	58	1.70	22.08	-149.38	-20.01	0.14	0.05
4	59	-1.74	5.12	-151.65	-0.30	-0.20	-0.05
4	60	0.64	22.82	-147.46	-21.11	0.04	0.03
4	61	-0.69	5.02	-153.22	-0.02	-0.09	-0.05
4	62	1.69	22.72	-149.03	-20.83	0.15	0.03
4	63	-1.72	4.48	-152.01	0.53	-0.20	-0.04
4	64	0.65	22.18	-147.82	-20.28	0.03	0.04
4	65	0.47	9.54	-153.38	-5.71	0.02	0.02
4	66	1.28	14.99	-151.99	-11.54	0.11	0.04
4	67	-1.31	12.22	-149.04	-8.77	-0.17	-0.04
4	68	-0.51	17.67	-147.65	-14.60	-0.08	-0.02
4	69	0.51	9.41	-153.29	-5.71	0.03	0.02
4	70	1.24	15.12	-152.08	-11.53	0.10	0.04
4	71	-1.28	12.08	-148.95	-8.77	-0.16	-0.04
4	72	-0.54	17.80	-147.74	-14.60	-0.09	-0.02
4	73	0.66	11.82	-153.06	-8.13	0.05	-0.03
4	74	1.47	17.27	-151.67	-13.96	0.13	-7.30e-03
4	75	-1.50	9.93	-149.36	-6.34	-0.19	4.03e-03
4	76	-0.70	15.38	-147.97	-12.18	-0.11	0.03
4	77	0.70	11.69	-152.97	-8.14	0.05	-0.03
4	78	1.43	17.41	-151.76	-13.96	0.13	-8.26e-03
4	79	-1.47	9.80	-149.27	-6.35	-0.18	4.99e-03
4	80	-0.73	15.51	-148.07	-12.17	-0.11	0.03
4	81	-1.09	4.12	-153.48	0.03	-0.14	-0.03
4	82	1.59	22.28	-148.85	-19.42	0.14	0.04
4	83	-1.63	4.92	-152.18	-0.89	-0.20	-0.05
4	84	1.05	23.09	-147.55	-20.33	0.08	0.03
4	85	-1.03	4.80	-153.39	-0.70	-0.13	-0.04
4	86	1.65	22.97	-148.76	-20.14	0.15	0.03

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
4	87	-1.68	4.24	-152.28	-0.16	-0.20	-0.03
4	88	1.00	22.40	-147.65	-19.61	0.08	0.04
4	89	-0.98	3.68	-153.18	8.63e-03	-0.12	-0.03
4	90	1.48	22.73	-149.15	-19.40	0.12	0.04
4	91	-1.52	4.48	-151.88	-0.91	-0.18	-0.04
4	92	0.94	23.53	-147.85	-20.32	0.07	0.02
4	93	-0.92	4.36	-153.09	-0.72	-0.12	-0.04
4	94	1.54	23.41	-149.06	-20.13	0.13	0.03
4	95	-1.57	3.79	-151.98	-0.18	-0.19	-0.03
4	96	0.89	22.84	-147.95	-19.59	0.06	0.04
9	1	-6.94	1.80	-226.20	-2.27	-8.07	-2.89e-03
9	2	-7.38	2.46	-242.12	-3.02	-8.59	-1.54e-03
9	3	-9.80	2.48	-287.16	-3.08	-11.34	-6.94e-03
9	4	-9.81	2.48	-288.71	-3.08	-11.35	-6.84e-03
9	5	-10.92	4.13	-326.93	-4.94	-12.65	-3.57e-03
9	6	-10.92	4.13	-328.49	-4.94	-12.65	-3.48e-03
9	7	-6.10	1.80	-189.67	-2.29	-7.14	-0.02
9	8	-6.11	1.80	-191.23	-2.29	-7.14	-0.02
9	9	-7.22	3.44	-229.45	-4.16	-8.44	-0.02
9	10	-7.22	3.44	-231.01	-4.16	-8.44	-0.02
9	11	-9.81	2.48	-290.26	-3.08	-11.35	-6.75e-03
9	12	-10.58	3.63	-315.00	-4.38	-12.26	-4.58e-03
9	13	-10.59	3.63	-318.11	-4.38	-12.27	-4.40e-03
9	14	-6.11	1.80	-192.78	-2.29	-7.15	-0.02
9	15	-6.88	2.95	-217.52	-3.60	-8.05	-0.02
9	16	-6.89	2.95	-220.63	-3.60	-8.06	-0.02
9	17	-9.91	2.48	-315.49	-3.15	-11.53	-7.95e-03
9	18	-9.91	2.47	-317.04	-3.15	-11.54	-7.85e-03
9	19	-10.69	3.63	-343.33	-4.46	-12.44	-5.59e-03
9	20	-10.69	3.63	-344.89	-4.46	-12.45	-5.50e-03
9	21	-6.21	1.79	-218.01	-2.36	-7.32	-0.02
9	22	-6.21	1.79	-219.56	-2.36	-7.33	-0.02
9	23	-6.99	2.94	-245.85	-3.67	-8.24	-0.02
9	24	-6.99	2.94	-247.41	-3.67	-8.24	-0.02
9	25	-9.87	2.56	-287.16	-3.24	-11.48	-0.02
9	26	-9.87	2.56	-288.71	-3.24	-11.48	-0.02
9	27	-10.65	3.72	-315.00	-4.55	-12.39	-0.02
9	28	-10.65	3.72	-316.56	-4.55	-12.39	-0.02
9	29	-6.17	1.88	-189.68	-2.45	-7.27	-0.03
9	30	-6.17	1.88	-191.23	-2.45	-7.27	-0.03
9	31	-6.95	3.03	-217.52	-3.76	-8.18	-0.03
9	32	-6.95	3.03	-219.08	-3.76	-8.19	-0.03
9	33	-18.62	8.73	-106.04	6.57	-2.05	0.80
9	34	-16.55	15.52	-67.73	2.60	-0.30	1.62
9	35	1.93	-10.59	-378.73	-8.53	-16.62	-1.62
9	36	3.99	-3.80	-340.41	-12.50	-14.88	-0.81
9	37	-18.31	7.70	-108.24	7.30	-1.87	0.71
9	38	-16.86	16.55	-65.53	1.87	-0.48	1.71
9	39	2.24	-11.62	-380.92	-7.80	-16.44	-1.71
9	40	3.68	-2.77	-338.22	-13.23	-15.06	-0.71
9	41	-15.20	-6.98	-198.28	-3.88	-3.71	-1.33
9	42	-13.13	-0.19	-159.96	-7.85	-1.96	-0.52
9	43	-1.49	5.11	-286.49	1.92	-14.96	0.52
9	44	0.57	11.90	-248.17	-2.05	-13.22	1.33
9	45	-14.89	-8.00	-200.47	-3.15	-3.53	-1.43
9	46	-13.45	0.84	-157.77	-8.58	-2.14	-0.43
9	47	-1.18	4.08	-288.68	2.65	-14.78	0.42
9	48	0.26	12.93	-245.98	-2.78	-13.40	1.43
9	49	-13.84	-5.96	-246.18	5.93	-9.19	-1.00
9	50	-6.95	16.68	-118.47	-7.33	-3.37	1.72
9	51	-7.68	-11.75	-327.99	1.40	-13.56	-1.73
9	52	-0.79	10.88	-200.27	-11.86	-7.74	1.00
9	53	-12.82	-10.67	-273.85	2.79	-9.69	-1.64
9	54	-5.92	11.97	-146.14	-10.46	-3.86	1.08
9	55	-8.70	-7.04	-300.32	4.53	-13.06	-1.08
9	56	-1.81	15.59	-172.60	-8.72	-7.24	1.64
9	57	-12.80	-9.38	-253.49	8.34	-8.59	-1.31
9	58	-7.99	20.11	-111.15	-9.74	-3.97	2.03
9	59	-6.64	-15.18	-335.30	3.81	-12.96	-2.03
9	60	-1.82	14.31	-192.96	-14.27	-8.34	1.30
9	61	-11.78	-14.10	-281.16	5.20	-9.09	-1.95
9	62	-6.96	15.39	-138.83	-12.87	-4.47	1.39
9	63	-7.67	-10.47	-307.63	6.94	-12.46	-1.39
9	64	-2.85	19.02	-165.29	-11.13	-7.84	1.95

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
9	65	-16.96	9.06	-127.96	5.07	-3.88	0.91
9	66	-14.86	16.57	-84.48	0.96	-2.39	1.82
9	67	0.23	-11.64	-361.98	-6.89	-14.54	-1.82
9	68	2.34	-4.14	-318.49	-11.00	-13.05	-0.91
9	69	-16.67	7.91	-130.24	5.81	-3.73	0.81
9	70	-15.16	17.72	-82.20	0.23	-2.54	1.92
9	71	0.53	-12.80	-364.26	-6.16	-14.39	-1.92
9	72	2.04	-2.98	-316.21	-11.74	-13.20	-0.81
9	73	-15.64	-8.12	-195.23	-4.01	-4.77	-1.50
9	74	-13.53	-0.62	-151.74	-8.12	-3.28	-0.58
9	75	-1.10	5.55	-294.71	2.19	-13.65	0.58
9	76	1.01	13.05	-251.23	-1.92	-12.16	1.50
9	77	-15.34	-9.28	-197.51	-3.27	-4.62	-1.60
9	78	-13.83	0.54	-149.46	-8.85	-3.43	-0.48
9	79	-0.80	4.39	-296.99	2.92	-13.50	0.48
9	80	0.71	14.20	-248.95	-2.66	-12.30	1.59
9	81	-13.40	-6.93	-260.60	5.67	-9.35	-1.12
9	82	-6.38	18.07	-115.65	-8.01	-4.38	1.94
9	83	-8.24	-13.14	-330.80	2.08	-12.55	-1.94
9	84	-1.23	11.86	-185.86	-11.60	-7.58	1.12
9	85	-13.00	-12.09	-280.78	2.95	-9.62	-1.84
9	86	-5.99	12.91	-135.83	-10.74	-4.65	1.21
9	87	-8.64	-7.99	-310.62	4.81	-12.28	-1.22
9	88	-1.62	17.01	-165.68	-8.88	-7.31	1.84
9	89	-12.41	-10.79	-268.20	8.13	-8.85	-1.45
9	90	-7.38	21.92	-108.05	-10.47	-4.88	2.26
9	91	-7.25	-17.00	-338.40	4.54	-12.05	-2.27
9	92	-2.22	15.71	-178.26	-14.06	-8.07	1.45
9	93	-12.01	-15.94	-288.38	5.41	-9.12	-2.17
9	94	-6.98	16.77	-128.23	-13.20	-5.14	1.54
9	95	-7.65	-11.84	-318.22	7.27	-11.78	-1.55
9	96	-2.61	20.87	-158.08	-11.34	-7.81	2.17
11	1	0.08	-13.62	-255.66	10.13	-0.03	1.38e-03
11	2	0.09	-13.63	-279.97	10.14	-0.03	1.37e-03
11	3	0.12	-20.01	-290.30	15.20	-0.03	2.62e-03
11	4	0.12	-20.01	-292.86	15.20	-0.03	2.61e-03
11	5	0.15	-20.03	-351.07	15.24	-0.04	2.59e-03
11	6	0.15	-20.03	-353.63	15.24	-0.04	2.58e-03
11	7	0.07	-17.45	-187.77	13.48	-0.02	2.34e-03
11	8	0.07	-17.45	-190.33	13.48	-0.02	2.33e-03
11	9	0.10	-17.47	-248.53	13.53	-0.03	2.31e-03
11	10	0.10	-17.47	-251.09	13.53	-0.03	2.30e-03
...							
835	96	-3.30	-17.74	65.94	0.0	-3.02	0.32
Nodo		Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		-100.74	-115.38	-1523.23	-26.69	-63.31	-3.38
		95.04	117.76	427.76	33.30	39.73	3.57

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		kN	kN	kN	kN m	kN m	kN m
2	39	-3.99	-24.67	-559.07	2.13	-7.37	-0.28
	38	-0.53	13.29	-42.58	9.91	1.96	0.28
	92	-3.93	16.28	-272.17	-21.26	-5.94	-0.54
	89	-0.58	-27.65	-329.48	33.30	0.53	0.53
	48	-5.25	9.77	-406.02	-7.80	-9.47	0.07
	45	0.74	-21.14	-195.63	19.85	4.06	-0.08
4	20	-0.06	19.97	-285.11	-15.22	-0.06	-2.76e-03
	29	-0.03	21.23	-127.77	-16.77	-0.02	-2.97e-03
	52	0.80	22.94	-147.23	-21.69	0.06	0.03
	49	-0.84	4.26	-153.80	1.39	-0.11	-0.03
	43	-2.15	10.01	-149.20	-5.94	-0.26	1.53e-03
	42	2.12	17.19	-151.84	-14.37	0.20	-4.80e-03
9	39	2.24	-11.62	-380.92	-7.80	-16.44	-1.71
	38	-16.86	16.55	-65.53	1.87	-0.48	1.71
	60	-1.82	14.31	-192.96	-14.27	-8.34	1.30
	57	-12.80	-9.38	-253.49	8.34	-8.59	-1.31
	35	1.93	-10.59	-378.73	-8.53	-16.62	-1.62
	34	-16.55	15.52	-67.73	2.60	-0.30	1.62
11	20	0.12	-20.02	-407.11	15.19	-0.05	2.04e-03
	7	0.07	-17.45	-187.77	13.48	-0.02	2.34e-03
	50	-1.00	-5.04	-235.43	-1.38	-0.15	0.04
	51	1.20	-22.22	-228.89	21.72	0.10	-0.04

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	44	-2.18	-11.81	-230.09	7.72	-0.27	0.03
	41	2.38	-15.45	-234.23	12.62	0.22	-0.02
14	33	6.89	30.98	-174.99	-2.55	15.06	-0.18
	36	-1.71	-31.65	-25.42	2.46	-11.23	0.23
	81	4.11	53.06	-160.23	-5.27	3.70	0.08
	84	1.07	-53.73	-40.19	5.18	0.12	-0.03
	35	-1.28	-2.30	-51.48	-0.47	-12.29	0.35
	34	6.46	1.63	-148.94	0.38	16.12	-0.30
17	35	-6.72	-10.40	-357.88	6.86	8.92	-0.42
	34	-2.50	10.05	36.00	-11.54	-1.69	-1.03
	90	-5.59	16.08	-51.19	-16.68	0.52	-1.11
	91	-3.64	-16.44	-270.68	12.00	6.71	-0.34
	34	-2.50	10.05	36.00	-11.54	-1.69	-1.03
	35	-6.72	-10.40	-357.88	6.86	8.92	-0.42
21	80	-3.63	15.30	-392.99	-13.31	-6.11	-0.21
	77	1.29	-12.17	-94.26	9.35	3.09	0.16
	92	-2.61	18.99	-348.01	-22.23	-4.14	0.34
	89	0.27	-15.87	-139.24	18.28	1.12	-0.38
	44	-4.65	12.45	-371.91	-10.97	-7.53	-0.14
	41	2.30	-9.32	-115.34	7.01	4.51	0.10
25	20	-12.33	-20.87	-340.55	12.80	-1.12	-0.45
	35	-17.28	-18.80	-117.52	7.20	-1.60	-0.36
	60	-7.85	-8.20	-194.36	-0.84	-0.73	-0.53
	57	-7.66	-20.26	-197.64	18.07	-0.70	-0.08
	43	-18.10	-13.87	-127.55	12.34	-1.64	-0.23
	42	2.58	-14.59	-264.45	4.89	0.21	-0.38
29	20	-18.00	-0.73	-1201.45	0.54	-20.50	-0.02
	29	-8.14	-0.44	-476.82	0.36	-9.28	-0.02
	90	-11.99	19.36	-628.86	-18.77	-13.09	0.58
	91	-10.31	-20.39	-591.08	19.63	-12.16	-0.61
	48	-15.73	9.03	-515.22	-8.77	-22.90	0.36
	45	-6.56	-10.06	-704.72	9.64	-2.35	-0.39
33	20	0.39	18.97	-280.25	-14.48	-0.06	-0.01
	29	-0.11	20.21	-124.96	-15.97	-0.05	-7.81e-03
	59	-1.52	6.58	-151.58	-18.62	-0.17	0.07
	58	1.66	19.28	-143.31	-0.69	0.10	-0.09
	43	-1.94	12.16	-151.85	-12.90	-0.25	0.03
	42	2.08	13.70	-143.04	-6.41	0.18	-0.05
39	20	3.23	-0.04	-1523.23	-0.07	2.98	-0.03
	7	1.57	-0.03	-593.05	-0.01	1.48	-0.01
	90	0.53	16.86	-762.33	-17.80	2.33	-0.49
	91	3.98	-16.92	-763.25	17.77	2.06	0.46
	44	6.83	1.53	-768.67	-1.61	-4.57	-0.08
	41	-2.32	-1.59	-756.91	1.58	8.96	0.05
40	20	-4.08	5.51e-03	-1500.47	-0.04	-5.13	-2.25e-03
	29	-1.90	8.93e-03	-585.11	-0.02	-2.37	1.69e-03
	92	-1.35	22.65	-752.59	-21.16	-4.44	0.20
	89	-3.72	-22.62	-752.18	21.11	-1.81	-0.20
	44	2.59	3.89	-748.85	-3.86	-8.21	0.27
	41	-7.67	-3.86	-755.91	3.81	1.96	-0.27
42	76	-91.56	-12.80	-492.21	12.29	-6.69	0.31
	73	69.81	-16.42	60.67	5.58	5.72	0.24
	51	-13.19	-24.33	-234.68	-0.42	-0.62	0.50
	50	-8.57	-4.89	-196.86	18.30	-0.36	0.05
	80	-92.00	-13.01	-491.12	11.93	-6.75	0.32
	77	70.25	-16.21	59.58	5.94	5.77	0.23
48	90	-19.21	-46.75	-338.01	8.85	-10.95	-1.99
	91	14.66	38.23	188.44	-8.63	4.43	2.25
	91	14.66	38.23	188.44	-8.63	4.43	2.25
	90	-19.21	-46.75	-338.01	8.85	-10.95	-1.99
	90	-19.21	-46.75	-338.01	8.85	-10.95	-1.99
	91	14.66	38.23	188.44	-8.63	4.43	2.25
57	34	94.99	-11.94	-587.19	4.46	7.35	-0.18
	35	-76.64	-0.81	427.76	-3.73	-7.71	-0.79
	83	-30.82	27.88	368.82	-8.31	0.33	-0.82
	82	49.17	-40.63	-528.26	9.04	-0.70	-0.15
	36	-63.99	-22.04	224.87	1.16	-9.26	-0.55
	33	82.34	9.30	-384.31	-0.43	8.89	-0.42
58	77	92.61	7.62	-503.83	-0.77	7.05	-0.20
	80	-58.57	-3.91	295.47	1.63	-6.93	0.79
	81	51.32	35.09	-385.02	-6.65	-0.60	-0.15
	84	-17.28	-31.39	176.67	7.51	0.73	0.74
	75	-46.87	14.95	167.00	-2.39	-7.12	0.59
	74	80.91	-11.25	-375.36	3.25	7.25	-1.32e-03

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
72	36	-25.34	-1.90	-266.13	-9.91	-2.92	1.99
	33	10.73	11.58	60.43	3.07	1.22	-0.99
	59	-17.07	-7.45	-60.08	-15.06	-1.96	3.07
	58	2.46	17.12	-145.62	8.21	0.26	-2.07
	36	-25.34	-1.90	-266.13	-9.91	-2.92	1.99
	33	10.73	11.58	60.43	3.07	1.22	-0.99
73	20	16.60	0.17	-1194.49	-0.23	17.75	-0.01
	7	7.59	0.11	-470.64	-0.15	8.15	-8.70e-03
	84	12.46	26.18	-615.30	-26.69	11.70	0.56
	81	8.29	-25.91	-589.70	26.35	10.62	-0.57
	43	14.84	-9.63	-677.96	9.83	6.72	-0.34
	6	16.67	0.19	-939.09	-0.25	17.95	-9.26e-03
83	20	-16.30	-3.71	-222.62	-0.08	-15.05	-0.06
	93	-11.05	86.51	-103.31	-6.92	-9.35	-1.53
	91	-15.21	113.03	-118.54	-9.01	-27.77	-2.23
	90	-6.90	-115.38	-162.76	8.83	8.61	2.11
	36	-21.96	34.20	-175.33	-2.90	-53.87	-1.51
	33	-0.15	-36.55	-105.96	2.72	34.71	1.39
86	20	-0.61	-0.49	-354.15	0.09	-1.24	-0.09
	29	-0.51	0.05	-177.18	-0.43	-1.03	-0.10
	92	11.71	14.12	-227.66	-12.66	12.20	1.19
	89	-12.44	-14.73	-202.79	12.85	-13.66	-1.29
	37	-17.63	5.19	-197.98	11.22	-14.49	1.56
	40	16.90	-5.80	-232.47	-11.03	13.03	-1.66
89	39	-100.74	10.15	-463.99	-9.31	-7.58	-0.33
	38	84.27	18.86	165.49	-8.61	6.73	-0.21
	49	1.75	4.62	-103.38	-18.09	0.13	-0.09
	52	-18.22	24.40	-195.11	0.17	-0.97	-0.45
	39	-100.74	10.15	-463.99	-9.31	-7.58	-0.33
	38	84.27	18.86	165.49	-8.61	6.73	-0.21
93	20	-1.06	-20.07	-416.83	15.05	-0.03	-6.99e-03
	29	-0.50	-21.41	-191.99	16.86	-0.01	-4.70e-03
	57	-0.54	-20.79	-235.92	0.11	0.12	0.04
	60	-0.71	-6.58	-239.15	20.11	-0.14	-0.05
	44	1.52	-12.82	-239.82	13.69	-0.25	-6.40e-03
	41	-2.76	-14.54	-235.25	6.54	0.22	-2.69e-03
95	91	-0.65	82.11	-538.70	-6.94	-20.11	-2.45
	90	-7.44	-51.03	165.44	7.04	4.02	1.70
	91	-0.65	82.11	-538.70	-6.94	-20.11	-2.45
	90	-7.44	-51.03	165.44	7.04	4.02	1.70
	91	-0.65	82.11	-538.70	-6.94	-20.11	-2.45
	90	-7.44	-51.03	165.44	7.04	4.02	1.70
97	20	-19.24	4.18	-162.25	-0.48	-18.00	-0.23
	33	-2.43	-14.74	-70.69	1.54	28.96	-1.47
	91	-24.57	88.79	-99.81	-8.15	-43.22	-1.73
	90	-1.60	-85.05	-115.08	7.69	19.64	1.45
	39	-28.03	55.23	-134.26	-5.31	-63.31	0.27
	38	1.86	-51.49	-80.63	4.85	39.73	-0.55
102	38	-1.50	-0.84	-119.73	0.0	12.20	-0.88
	39	-10.40	2.04	44.45	0.0	-18.12	1.17
	34	-1.74	0.68	-118.33	0.0	12.04	-0.89
	28	-10.19	1.24	-51.72	0.0	-5.20	0.25
	39	-10.40	2.04	44.45	0.0	-18.12	1.17
	38	-1.50	-0.84	-119.73	0.0	12.20	-0.88
126	38	-7.48	0.20	-157.80	0.0	6.33	-1.41
	39	0.02	-0.21	83.68	0.0	-9.71	1.93
	38	-7.48	0.20	-157.80	0.0	6.33	-1.41
	28	-6.33	0.47	-50.36	0.0	-2.98	0.45
	39	0.02	-0.21	83.68	0.0	-9.71	1.93
	38	-7.48	0.20	-157.80	0.0	6.33	-1.41
130	38	0.66	1.26	-87.97	0.0	14.99	-0.26
	39	-13.33	0.02	11.10	0.0	-21.83	0.28
	33	-1.64	17.98	-74.06	0.0	10.64	-0.30
	28	-10.92	1.33	-53.01	0.0	-6.03	0.03
	39	-13.33	0.02	11.10	0.0	-21.83	0.28
	38	0.66	1.26	-87.97	0.0	14.99	-0.26
134	20	-15.98	3.68	-130.57	0.0	-8.70	-0.22
	91	-15.69	117.76	-44.79	0.0	-22.51	-0.97
	91	-15.69	117.76	-44.79	0.0	-22.51	-0.97
	30	-17.99	2.46	-75.48	0.0	-10.00	-0.14
	35	-20.18	75.35	-48.46	0.0	-39.49	-0.80
	34	-1.59	-71.87	-122.59	0.0	28.15	0.50
138	20	-12.64	-7.86	-180.71	0.0	-6.21	-0.12
	96	-6.22	-54.40	-34.68	0.0	-4.26	-0.70



Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	36	-4.99	17.79	-76.58	0.0	-15.29	-1.72
	28	-14.96	-3.04	-149.58	0.0	-7.05	-0.19
	35	-5.73	42.15	-103.29	0.0	-17.16	-1.46
	34	-11.58	-47.26	-110.01	0.0	9.11	1.32
143	38	8.32	9.94	-15.66	-7.12	0.0	-0.02
	39	-18.64	9.49	3.66	-6.28	0.0	0.12
	28	-7.81	17.04	-6.98	-12.20	0.0	0.09
	60	-5.97	9.27	-6.49	-5.34	0.0	0.21
	96	-4.83	9.48	-7.74	-5.66	0.0	0.21
	28	-7.81	17.04	-6.98	-12.20	0.0	0.09
146	33	14.49	11.32	-26.07	-8.08	0.0	-0.05
	36	-23.30	6.98	13.25	-3.52	0.0	0.41
	28	-7.01	15.95	-7.33	-10.47	0.0	0.34
	80	-20.78	7.27	11.42	-3.25	0.0	0.47
	96	-11.83	7.95	2.73	-3.50	0.0	0.47
	28	-7.01	15.95	-7.33	-10.47	0.0	0.34
149	38	11.30	10.32	-19.15	-7.24	0.0	-4.45e-03
	39	-21.48	8.82	9.09	-5.54	0.0	0.21
	28	-7.84	16.76	-5.48	-11.60	0.0	0.20
	80	-16.56	8.81	4.21	-4.75	0.0	0.33
	80	-16.56	8.81	4.21	-4.75	0.0	0.33
	28	-7.84	16.76	-5.48	-11.60	0.0	0.20
155	84	4.27	16.72	-168.82	-2.62	0.0	-0.76
	81	22.18	7.40	-8.16	-8.33	0.0	0.34
	25	16.57	20.84	-113.38	-9.69	0.0	-0.37
	52	4.11	16.61	-166.10	-1.31	0.0	-0.76
	83	-12.93	6.54	-19.65	-7.81	0.0	0.40
	25	16.57	20.84	-113.38	-9.69	0.0	-0.37
158	34	4.41	9.85	-191.89	0.0	10.65	-0.09
	35	-0.84	-24.02	77.82	0.0	-8.35	0.04
	57	3.19	27.59	-25.18	0.0	2.56	-0.25
	60	0.39	-41.76	-88.89	0.0	-0.26	0.20
	35	-0.84	-24.02	77.82	0.0	-8.35	0.04
	34	4.41	9.85	-191.89	0.0	10.65	-0.09
166	93	0.17	54.59	-54.89	0.0	0.92	0.08
	96	0.09	-48.07	-11.18	0.0	-0.88	-0.05
	40	-1.48	-2.75	-17.79	0.0	-5.32	-0.17
	37	1.74	9.27	-48.28	0.0	5.35	0.20
	35	-2.11	28.32	-28.29	0.0	-6.23	-0.15
	34	2.37	-21.80	-37.78	0.0	6.26	0.18
191	20	39.67	-17.62	-217.37	8.00	0.0	0.31
	86	25.78	-7.40	-79.33	8.49	0.0	-0.39
	51	21.63	-16.73	-181.08	0.92	0.0	0.75
	50	22.70	-7.44	-81.43	9.97	0.0	-0.34
	25	26.73	-20.92	-166.61	9.67	0.0	0.37
	2	27.03	-12.07	-151.76	5.43	0.0	0.21
194	20	21.59	13.90	-139.14	-10.05	0.0	0.15
	29	8.99	14.75	-63.32	-11.06	0.0	0.16
	52	11.53	14.84	-72.48	-13.30	0.0	-0.21
	49	10.26	4.10	-75.85	-0.12	0.0	0.41
	49	10.26	4.10	-75.85	-0.12	0.0	0.41
	25	13.88	16.54	-94.81	-12.21	0.0	0.18
200	20	24.40	15.17	-83.81	-10.84	0.0	0.16
	29	10.16	16.08	-40.23	-11.93	0.0	0.18
	25	15.69	18.04	-59.22	-13.18	0.0	0.19
	50	16.85	13.36	-46.05	-2.14	0.0	-0.29
	49	11.72	7.01	-47.98	-11.83	0.0	0.54
	25	15.69	18.04	-59.22	-13.18	0.0	0.19
202	20	15.59	15.92	-41.82	-11.52	0.0	0.11
	34	18.51	10.19	-21.86	-7.31	0.0	0.03
	25	10.03	18.96	-32.23	-14.02	0.0	0.14
	52	8.40	9.58	-25.13	-4.16	0.0	-0.28
	49	7.36	12.10	-24.96	-11.22	0.0	0.43
	25	10.03	18.96	-32.23	-14.02	0.0	0.14
205	39	-11.40	11.32	-21.70	-8.13	0.0	0.06
	38	18.15	10.90	-7.51	-7.79	0.0	0.01
	25	4.28	19.47	-18.92	-14.53	0.0	0.07
	52	3.70	10.68	-14.95	-5.54	0.0	-0.17
	49	3.05	11.55	-14.26	-10.39	0.0	0.24
	25	4.28	19.47	-18.92	-14.53	0.0	0.07
210	20	-26.46	-15.44	-139.10	5.62	0.0	-0.55
	38	-28.13	-7.81	-69.16	4.89	0.0	-0.69
	60	-18.33	-7.42	-80.82	-3.63	0.0	-0.61
	57	-11.12	-13.69	-89.32	11.14	0.0	-0.15

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	25	-17.46	-18.70	-108.68	7.91	0.0	-0.59
	2	-17.94	-10.55	-96.94	3.75	0.0	-0.37
218	38	-8.88	-18.87	-155.06	3.47e-06	2.82	-1.30
	39	5.51	16.94	88.55	-1.92e-05	-4.54	1.72
	91	2.47	24.05	74.47	-2.07e-05	-3.83	1.28
	90	-5.83	-25.98	-140.98	4.91e-06	2.10	-0.86
	39	5.51	16.94	88.55	-1.92e-05	-4.54	1.72
	38	-8.88	-18.87	-155.06	3.47e-06	2.82	-1.30
223	38	-0.02	-0.46	-102.18	0.0	14.00	-0.55
	39	-12.61	1.63	26.15	0.0	-20.58	0.70
	34	-0.29	1.31	-101.06	0.0	13.84	-0.56
	28	-10.85	1.22	-52.38	0.0	-5.78	0.13
	39	-12.61	1.63	26.15	0.0	-20.58	0.70
	38	-0.02	-0.46	-102.18	0.0	14.00	-0.55
228	38	-0.36	-63.06	-118.23	1.90e-04	27.46	-0.29
	39	-20.54	66.68	-34.26	-2.70e-04	-39.14	0.19
	35	-20.32	61.27	-36.19	-2.70e-04	-39.26	0.23
	34	-0.59	-57.65	-116.30	1.90e-04	27.59	-0.33
	35	-20.32	61.27	-36.19	-2.70e-04	-39.26	0.23
	34	-0.59	-57.65	-116.30	1.90e-04	27.59	-0.33
233	20	-13.03	-8.25	-169.73	-4.02e-05	-6.57	0.16
	40	-12.55	19.16	-79.01	-1.65e-04	-23.51	-1.00
	36	-12.51	23.88	-79.49	-1.85e-04	-26.29	-1.19
	33	-5.23	-30.22	-127.60	1.34e-04	17.86	1.41
	36	-12.51	23.88	-79.49	-1.85e-04	-26.29	-1.19
	33	-5.23	-30.22	-127.60	1.34e-04	17.86	1.41
248	38	5.18	9.69	-14.53	-6.86	0.0	-0.13
	39	-16.76	9.71	-3.17	-6.73	0.0	0.13
	26	-7.82	17.01	-11.29	-12.39	0.0	1.78e-03
	60	-6.11	9.29	-10.14	-5.26	0.0	-0.14
	63	-10.79	10.06	-5.40	-8.07	0.0	0.19
	25	-7.78	17.01	-11.29	-12.39	0.0	1.78e-03
250	20	-14.83	14.04	-23.55	-10.06	0.0	-0.06
	89	-8.01	10.01	-12.07	-8.13	0.0	0.13
	25	-10.30	16.73	-19.19	-12.23	0.0	-0.07
	60	-8.20	8.90	-17.70	-4.62	0.0	-0.25
	59	-12.65	10.28	-13.26	-8.57	0.0	0.21
	25	-10.30	16.73	-19.19	-12.23	0.0	-0.07
258	34	14.37	11.60	-253.09	0.0	11.86	0.60
	35	-9.52	-25.68	159.22	0.0	-9.84	-0.64
	39	-9.51	-26.42	157.28	0.0	-9.83	-0.64
	38	14.36	12.35	-251.15	0.0	11.86	0.60
	35	-9.52	-25.68	159.22	0.0	-9.84	-0.64
	34	14.37	11.60	-253.09	0.0	11.86	0.60
268	81	0.75	61.96	-80.36	0.0	1.10	0.14
	84	0.66	-51.55	-3.19	0.0	-0.15	-0.03
	44	-1.76	-16.97	-25.08	0.0	-5.61	-0.11
	41	3.17	27.38	-58.46	0.0	6.56	0.22
	35	-2.13	12.84	-42.08	0.0	-6.99	-0.04
	34	3.53	-2.44	-41.47	0.0	7.94	0.15
307	39	-21.46	11.36	-24.33	-8.13	0.0	-5.04e-03
	38	22.60	11.05	2.14	-7.91	0.0	-0.02
	25	0.69	19.65	-14.46	-14.65	0.0	-0.02
	52	0.48	10.84	-11.50	-6.09	0.0	-0.08
	57	0.73	11.44	-10.74	-9.71	0.0	0.06
	25	0.69	19.65	-14.46	-14.65	0.0	-0.02
309	39	-36.33	11.30	-36.87	-7.94	0.0	-0.06
	38	33.07	10.98	13.61	-7.77	0.0	-0.05
	25	-2.12	19.52	-15.15	-14.33	0.0	-0.11
	52	-2.58	10.78	-12.51	-5.84	0.0	-0.16
	49	-0.68	11.50	-10.75	-9.88	0.0	0.04
	25	-2.12	19.52	-15.15	-14.33	0.0	-0.11
317	39	-58.42	11.37	-66.66	-7.54	0.0	-0.11
	38	48.71	10.39	33.34	-7.36	0.0	-0.11
	25	-6.25	19.03	-21.58	-13.55	0.0	-0.21
	52	-7.46	9.88	-19.44	-4.80	0.0	-0.34
	49	-2.24	11.87	-13.88	-10.10	0.0	0.12
	25	-6.25	19.03	-21.58	-13.55	0.0	-0.21
319	39	-83.07	11.59	-122.57	-6.92	0.0	-0.14
	38	63.75	9.13	62.93	-6.66	0.0	-0.17
	25	-12.40	18.06	-38.38	-12.30	0.0	-0.30
	52	-14.65	13.33	-37.39	-3.07	0.0	-0.46
	49	-4.66	7.40	-22.24	-10.50	0.0	0.14
	25	-12.40	18.06	-38.38	-12.30	0.0	-0.30

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
322	39	-93.51	8.98	-198.84	-6.12	0.0	-0.18
	38	68.15	9.96	90.17	-5.75	0.0	-0.19
	49	-5.76	4.28	-38.45	-10.71	0.0	0.03
	52	-19.60	14.66	-70.22	-1.16	0.0	-0.40
	49	-5.76	4.28	-38.45	-10.71	0.0	0.03
	25	-16.27	16.50	-69.66	-10.71	0.0	-0.34
344	38	-6.22	-0.82	-139.48	0.0	9.57	-1.20
	39	-4.06	1.78	64.70	0.0	-14.42	1.63
	38	-6.22	-0.82	-139.48	0.0	9.57	-1.20
	28	-8.76	1.10	-51.16	0.0	-4.25	0.37
	39	-4.06	1.78	64.70	0.0	-14.42	1.63
	38	-6.22	-0.82	-139.48	0.0	9.57	-1.20
352	38	1.08	-25.58	-87.58	-1.98e-04	17.67	-0.14
	39	-14.51	27.89	-0.67	2.81e-04	-25.35	0.04
	38	1.08	-25.58	-87.58	-1.98e-04	17.67	-0.14
	39	-14.51	27.89	-0.67	2.81e-04	-25.35	0.04
	39	-14.51	27.89	-0.67	2.81e-04	-25.35	0.04
	38	1.08	-25.58	-87.58	-1.98e-04	17.67	-0.14
360	20	-12.52	1.00	-126.45	4.16e-05	-6.58	-0.23
	39	-16.25	73.97	-45.84	2.11e-04	-32.24	-0.81
	34	-2.03	-67.06	-115.70	-1.61e-04	24.28	0.47
	35	-15.01	68.31	-47.63	2.15e-04	-32.76	-0.79
	35	-15.01	68.31	-47.63	2.15e-04	-32.76	-0.79
	34	-2.03	-67.06	-115.70	-1.61e-04	24.28	0.47
368	91	-5.93	64.87	-281.04	0.0	-6.02	-0.88
	90	-5.62	-58.55	31.52	0.0	-0.22	0.33
	29	-8.67	5.37	-107.79	0.0	-4.37	-0.48
	33	-12.05	-11.82	-99.50	0.0	2.28	1.22
	35	-0.47	40.58	-207.66	0.0	-9.43	-1.55
	34	-11.09	-34.27	-41.85	0.0	3.19	1.00
374	77	17.50	11.98	-43.32	-8.55	0.0	-0.05
	80	-21.33	4.49	17.53	-1.21	0.0	0.56
	28	-3.59	14.20	-16.50	-8.70	0.0	0.49
	80	-21.33	4.49	17.53	-1.21	0.0	0.56
	96	-15.78	5.64	13.85	-1.39	0.0	0.63
	28	-3.59	14.20	-16.50	-8.70	0.0	0.49
380	20	-21.75	13.61	-47.53	-9.70	0.0	-0.11
	45	-5.71	9.53	-22.42	-7.45	0.0	-0.04
	25	-14.50	16.20	-34.71	-11.78	0.0	-0.13
	60	-11.64	7.87	-30.09	-3.50	0.0	-0.35
	59	-15.18	10.82	-26.27	-9.16	0.0	0.23
	25	-14.50	16.20	-34.71	-11.78	0.0	-0.13
389	20	-26.38	12.95	-86.52	-9.17	0.0	-0.14
	33	-8.56	7.66	-39.53	-6.57	0.0	-0.22
	25	-17.32	15.39	-59.84	-11.13	0.0	-0.17
	58	-10.46	11.36	-46.44	-2.15	0.0	0.18
	64	-13.38	11.60	-50.43	-2.27	0.0	0.21
	25	-17.32	15.39	-59.84	-11.13	0.0	-0.17
392	20	-20.29	11.91	-130.44	-8.59	0.0	-0.13
	29	-8.74	12.65	-58.74	-9.44	0.0	-0.13
	59	-12.16	4.56	-70.13	-10.51	0.0	-0.26
	58	-8.53	11.66	-67.87	-0.96	0.0	0.08
	64	-9.86	12.03	-71.78	-1.30	0.0	0.10
	25	-13.30	14.18	-88.14	-10.42	0.0	-0.15
401	35	-61.73	8.25	-263.60	-6.63	0.0	-0.04
	34	77.33	15.75	43.75	-5.88	0.0	-0.08
	49	16.64	4.78	-87.34	-12.16	0.0	0.34
	52	-1.04	19.21	-132.52	-0.35	0.0	-0.46
	49	16.64	4.78	-87.34	-12.16	0.0	0.34
	25	9.71	20.81	-140.70	-11.13	0.0	-0.12
408	50	45.49	4.28	-262.88	1.19	0.0	-1.31
	51	-22.63	11.80	127.86	-7.60	0.0	0.23
	49	23.30	12.16	43.80	-8.05	0.0	0.14
	52	-0.44	3.92	-178.82	1.64	0.0	-1.21
	52	-0.44	3.92	-178.82	1.64	0.0	-1.21
	49	23.30	12.16	43.80	-8.05	0.0	0.14
412	38	4.33	6.02	-146.13	0.0	11.14	-0.17
	39	-0.58	-15.33	12.00	0.0	-8.46	0.12
	41	4.75	22.94	-115.83	0.0	9.35	-0.26
	44	-1.00	-32.26	-18.31	0.0	-6.66	0.20
	35	-0.55	-14.34	11.78	0.0	-8.50	0.12
	34	4.31	5.02	-145.92	0.0	11.19	-0.17
429	77	1.37	-7.94	-92.59	0.0	4.79	0.01
	80	-0.52	7.48	25.08	0.0	-4.46	-0.11

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	55	-0.98	42.30	-43.22	0.0	-2.62	-0.25
	54	1.83	-42.76	-24.29	0.0	2.95	0.16
	35	-0.98	29.69	9.14	0.0	-4.78	-0.20
	34	1.83	-30.15	-76.64	0.0	5.11	0.10
487	76	-47.51	-8.73	-298.79	6.71	0.0	0.01
	73	74.78	-15.40	-24.15	5.73	0.0	0.11
	51	13.10	-19.26	-164.30	-0.01	0.0	0.45
	50	14.17	-4.87	-158.64	12.45	0.0	-0.33
	25	16.30	-20.91	-203.25	11.09	0.0	0.12
	2	16.67	-12.06	-190.68	6.20	0.0	0.06
493	77	92.01	-7.89	-249.95	2.81	0.0	0.81
	80	-51.41	-8.47	49.34	3.82	0.0	0.15
	49	56.01	-3.88	-225.38	-1.43	0.0	1.24
	52	-15.41	-12.48	24.76	8.07	0.0	-0.28
	25	24.45	-14.50	-129.27	6.00	0.0	0.82
	2	24.42	-8.08	-111.52	3.28	0.0	0.48
530	35	23.68	-12.62	-200.55	7.40	0.0	-0.05
	34	-19.35	-1.42	-8.50	-5.92	0.0	-1.26
	92	-3.08	-0.40	-87.52	-9.74	0.0	-1.33
	89	7.41	-13.63	-121.53	11.22	0.0	0.02
	30	2.51	-13.70	-89.69	5.82	0.0	-0.71
	2	1.66	-7.08	-114.73	0.79	0.0	-0.65
536	20	-37.88	-15.80	-189.65	7.75	0.0	-0.23
	35	-26.70	-10.12	-81.93	4.10	0.0	-0.25
	60	-27.19	-6.19	-110.28	-1.52	0.0	-0.12
	57	-16.54	-15.40	-111.72	11.96	0.0	-0.19
	25	-27.17	-18.96	-139.21	10.15	0.0	-0.24
	2	-25.89	-10.77	-131.10	5.18	0.0	-0.15
553	91	26.08	12.80	-162.60	-7.11	0.0	-0.53
	90	-16.95	-3.03	52.35	2.49	0.0	0.96
	93	25.26	15.36	-158.66	-8.60	0.0	-0.20
	96	-16.13	-5.59	48.41	3.98	0.0	0.63
	89	20.39	14.82	-135.64	-8.35	0.0	-0.10
	92	-11.26	-5.04	25.39	3.73	0.0	0.52
555	93	22.80	11.60	-89.58	-8.65	0.0	-0.10
	96	-17.95	1.68	30.38	1.35	0.0	0.71
	93	22.80	11.60	-89.58	-8.65	0.0	-0.10
	96	-17.95	1.68	30.38	1.35	0.0	0.71
	90	-11.72	4.22	15.57	-0.29	0.0	0.85
	28	2.55	11.16	-40.46	-6.35	0.0	0.59
563	20	22.01	13.50	-139.95	-9.79	0.0	0.15
	29	9.00	14.37	-63.41	-10.79	0.0	0.16
	59	9.91	5.54	-75.53	-11.92	0.0	0.31
	58	12.17	12.87	-73.45	-1.16	0.0	-0.11
	57	11.02	5.10	-78.10	-11.40	0.0	0.33
	25	13.99	16.10	-95.14	-11.90	0.0	0.18
565	20	25.11	14.79	-84.88	-10.57	0.0	0.16
	44	8.85	9.74	-38.96	-6.19	0.0	-0.02
	25	16.06	17.59	-59.85	-12.85	0.0	0.20
	58	12.68	7.50	-46.32	-2.64	0.0	-0.18
	57	14.42	12.41	-51.01	-11.05	0.0	0.42
	25	16.06	17.59	-59.85	-12.85	0.0	0.20
567	20	16.25	15.54	-42.66	-11.25	0.0	0.12
	44	3.68	10.36	-19.97	-6.82	0.0	0.12
	25	10.40	18.51	-32.75	-13.70	0.0	0.15
	58	8.36	9.32	-25.32	-4.21	0.0	0.35
	58	8.36	9.32	-25.32	-4.21	0.0	0.35
	25	10.40	18.51	-32.75	-13.70	0.0	0.15
569	20	6.51	15.95	-21.84	-11.70	0.0	0.06
	44	-0.73	10.75	-12.27	-7.26	0.0	0.07
	25	4.16	19.01	-19.37	-14.25	0.0	0.08
	58	3.52	10.33	-14.81	-5.34	0.0	0.20
	58	3.52	10.33	-14.81	-5.34	0.0	0.20
	25	4.16	19.01	-19.37	-14.25	0.0	0.08
571	20	-0.93	16.07	-16.38	-11.85	0.0	1.23e-03
	52	-0.34	10.62	-11.35	-5.92	0.0	0.06
	25	-0.62	19.17	-15.86	-14.44	0.0	1.48e-03
	50	1.40	10.57	-11.74	-5.69	0.0	0.07
	82	1.06	10.72	-11.78	-6.35	0.0	0.07
	25	-0.62	19.17	-15.86	-14.44	0.0	1.48e-03
573	20	-8.46	15.96	-22.79	-11.71	0.0	-0.06
	42	-0.67	10.77	-13.94	-7.24	0.0	0.04
	25	-5.47	19.02	-20.00	-14.27	0.0	-0.07
	50	-2.16	10.37	-14.16	-5.18	0.0	0.14

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	50	-2.16	10.37	-14.16	-5.18	0.0	0.14
	25	-5.47	19.02	-20.00	-14.27	0.0	-0.07
575	20	-18.29	15.57	-44.72	-11.28	0.0	-0.12
	42	-5.37	10.29	-22.90	-6.74	0.0	0.05
	25	-11.80	18.53	-34.12	-13.73	0.0	-0.15
	50	-6.75	9.09	-23.96	-3.84	0.0	0.24
	52	-8.49	9.24	-25.49	-4.22	0.0	0.28
	25	-11.80	18.53	-34.12	-13.73	0.0	-0.15
577	20	-26.67	14.85	-87.63	-10.62	0.0	-0.15
	7	-11.15	12.93	-41.83	-9.39	0.0	-0.14
	25	-17.18	17.65	-61.73	-12.91	0.0	-0.19
	50	-11.02	13.26	-44.38	-1.89	0.0	0.28
	52	-12.53	13.56	-46.66	-2.41	0.0	0.32
	25	-17.18	17.65	-61.73	-12.91	0.0	-0.19
579	20	-22.38	13.62	-140.94	-9.85	0.0	-0.15
	7	-9.34	11.87	-64.06	-8.72	0.0	-0.13
	52	-10.48	14.66	-73.32	-13.15	0.0	0.19
	49	-12.11	3.91	-76.89	-0.01	0.0	-0.39
	92	-10.41	14.81	-73.41	-1.47	0.0	0.21
	25	-14.40	16.22	-96.00	-11.98	0.0	-0.18
608	20	17.21	-14.34	-153.89	9.06	0.0	-0.29
	75	-4.29	-9.46	-41.95	8.08	0.0	-0.06
	58	15.58	-5.61	-111.91	1.24	0.0	-0.43
	25	10.95	-17.14	-111.10	11.35	0.0	-0.33
	25	10.95	-17.14	-111.10	11.35	0.0	-0.33
	2	11.71	-9.77	-106.49	6.05	0.0	-0.19
610	20	20.80	-15.64	-86.88	10.41	0.0	-0.24
	75	-5.38	-10.51	-17.36	8.32	0.0	-0.17
	57	11.44	-12.47	-52.12	3.46	0.0	0.11
	25	13.45	-18.66	-64.26	12.90	0.0	-0.28
	25	13.45	-18.66	-64.26	12.90	0.0	-0.28
	2	14.18	-10.66	-60.71	6.95	0.0	-0.16
612	74	19.38	-11.15	-41.93	7.74	0.0	-0.21
	75	-7.69	-11.22	-6.71	7.61	0.0	-1.00e-02
	57	6.40	-10.35	-24.92	5.29	0.0	0.12
	25	7.27	-19.57	-31.02	14.10	0.0	-0.20
	25	7.27	-19.57	-31.02	14.10	0.0	-0.20
	2	7.95	-11.17	-27.88	7.65	0.0	-0.11
614	74	9.75	-11.50	-19.56	8.20	0.0	-0.05
	75	-7.93	-11.37	-5.23	7.98	0.0	-0.06
	57	5.15	-11.05	-12.56	6.32	0.0	0.05
	25	1.11	-20.04	-16.12	14.85	0.0	-0.10
	25	1.11	-20.04	-16.12	14.85	0.0	-0.10
	2	1.68	-11.43	-13.02	8.07	0.0	-0.06
616	25	-3.29	-20.15	-13.23	15.13	0.0	-0.01
	75	-8.32	-11.40	-8.04	8.09	0.0	-4.47e-03
	57	0.16	-11.09	-9.97	6.57	0.0	0.06
	25	-3.29	-20.15	-13.23	15.13	0.0	-0.01
	25	-3.29	-20.15	-13.23	15.13	0.0	-0.01
	2	-2.85	-11.50	-10.03	8.24	0.0	-8.39e-03
618	20	-12.34	-16.75	-22.39	12.22	0.0	0.06
	45	-1.75	-11.22	-13.98	7.45	0.0	0.10
	57	-4.69	-10.92	-14.74	6.08	0.0	0.22
	25	-8.80	-19.97	-20.01	14.97	0.0	0.07
	27	-10.16	-19.97	-20.68	14.97	0.0	0.07
	1	-7.66	-11.40	-16.24	8.16	0.0	0.04
620	20	-25.78	-16.32	-53.87	11.76	0.0	0.12
	41	-8.99	-10.72	-28.07	6.87	0.0	0.19
	57	-12.04	-9.91	-30.86	4.80	0.0	0.39
	25	-17.99	-19.45	-41.86	14.41	0.0	0.15
	27	-20.81	-19.45	-46.00	14.41	0.0	0.15
	1	-15.99	-11.11	-35.73	7.86	0.0	0.08
622	20	-39.37	-15.51	-119.13	11.01	0.0	0.17
	7	-17.37	-13.55	-57.44	9.83	0.0	0.15
	57	-19.93	-13.15	-65.70	2.90	0.0	-0.22
	27	-31.66	-18.49	-98.49	13.49	0.0	0.20
	27	-31.66	-18.49	-98.49	13.49	0.0	0.20
	1	-24.40	-10.58	-76.13	7.36	0.0	0.11
624	20	-34.72	-14.19	-205.58	10.14	0.0	0.16
	7	-15.32	-12.41	-95.56	9.08	0.0	0.14
	57	-18.20	-13.87	-114.12	1.00	0.0	-0.12
	60	-20.47	-5.50	-120.98	12.63	0.0	0.34
	27	-27.95	-16.93	-168.20	12.45	0.0	0.19
	1	-21.50	-9.67	-129.60	6.77	0.0	0.11

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
653	20	32.42	-13.58	-201.70	9.69	0.0	-0.15
	29	14.29	-14.47	-93.86	10.82	0.0	-0.16
	57	19.37	-13.19	-118.35	0.87	0.0	0.12
	60	16.83	-5.34	-113.08	12.16	0.0	-0.33
	27	26.18	-16.20	-165.67	11.90	0.0	-0.18
	1	20.02	-9.25	-126.92	6.47	0.0	-0.10
655	20	38.27	-14.79	-121.82	10.48	0.0	-0.16
	29	16.91	-15.72	-58.68	11.67	0.0	-0.18
	57	23.19	-12.53	-74.52	2.54	0.0	0.20
	27	31.00	-17.62	-101.38	12.84	0.0	-0.19
	27	31.00	-17.62	-101.38	12.84	0.0	-0.19
	1	23.62	-10.08	-77.50	7.00	0.0	-0.11
657	20	25.62	-15.53	-58.43	11.19	0.0	-0.12
	43	10.74	-10.39	-30.54	6.83	0.0	-0.12
	57	16.41	-9.33	-38.15	4.23	0.0	-0.37
	27	20.81	-18.52	-50.21	13.69	0.0	-0.15
	27	20.81	-18.52	-50.21	13.69	0.0	-0.15
	1	15.79	-10.58	-38.32	7.47	0.0	-0.08
659	20	10.96	-15.94	-26.46	11.65	0.0	-0.07
	43	2.98	-10.77	-15.40	7.25	0.0	-0.06
	57	8.09	-10.39	-19.16	5.37	0.0	-0.19
	27	8.95	-19.02	-24.35	14.24	0.0	-0.08
	27	8.95	-19.02	-24.35	14.24	0.0	-0.08
	1	6.74	-10.85	-18.57	7.78	0.0	-0.04
661	20	-0.36	-16.07	-17.61	11.81	0.0	-3.33e-03
	55	0.12	-10.59	-12.14	5.86	0.0	-0.06
	49	1.72	-10.58	-12.50	5.71	0.0	-0.06
	27	-0.21	-19.17	-17.17	14.44	0.0	-2.38e-03
	28	-0.22	-19.17	-17.18	14.44	0.0	-2.40e-03
	1	-0.25	-10.94	-13.12	7.88	0.0	-2.12e-03
663	20	-11.65	-15.96	-26.55	11.68	0.0	0.06
	41	-2.88	-10.67	-16.43	6.91	0.0	1.53e-04
	49	-4.26	-10.37	-16.58	5.19	0.0	-0.16
	28	-9.42	-19.02	-24.42	14.27	0.0	0.07
	28	-9.42	-19.02	-24.42	14.27	0.0	0.07
	1	-7.22	-10.86	-18.65	7.80	0.0	0.04
665	20	-26.19	-15.56	-58.41	11.26	0.0	0.12
	7	-11.54	-13.57	-30.66	9.99	0.0	0.11
	49	-11.94	-9.09	-33.05	3.85	0.0	-0.28
	28	-21.25	-18.54	-50.29	13.74	0.0	0.14
	28	-21.25	-18.54	-50.29	13.74	0.0	0.14
	1	-16.20	-10.60	-38.36	7.52	0.0	0.08
667	20	-38.61	-14.84	-121.14	10.59	0.0	0.15
	7	-17.02	-12.93	-58.32	9.40	0.0	0.14
	49	-18.86	-13.57	-66.76	1.89	0.0	-0.32
	28	-31.35	-17.66	-101.25	12.92	0.0	0.19
	28	-31.35	-17.66	-101.25	12.92	0.0	0.19
	1	-23.88	-10.12	-77.17	7.07	0.0	0.10
669	20	-32.55	-13.64	-199.50	9.83	0.0	0.15
	7	-14.34	-11.89	-92.87	8.72	0.0	0.13
	50	-19.29	-4.34	-116.70	0.01	0.0	0.36
	51	-16.95	-14.25	-111.96	13.17	0.0	-0.16
	28	-26.43	-16.24	-164.89	12.00	0.0	0.18
	1	-20.14	-9.29	-125.65	6.56	0.0	0.10
698	20	32.10	-13.91	-197.90	10.03	0.0	-0.15
	29	14.16	-14.77	-92.22	11.08	0.0	-0.16
	50	16.97	-4.58	-113.23	0.13	0.0	-0.39
	51	18.86	-14.39	-113.67	13.31	0.0	0.18
	28	26.10	-16.57	-163.53	12.23	0.0	-0.18
	1	19.86	-9.47	-124.74	6.69	0.0	-0.10
700	20	36.49	-15.17	-116.61	10.82	0.0	-0.16
	29	16.11	-16.09	-56.37	11.95	0.0	-0.18
	49	24.46	-13.67	-70.40	2.14	0.0	0.33
	28	29.68	-18.05	-97.49	13.19	0.0	-0.19
	28	29.68	-18.05	-97.49	13.19	0.0	-0.19
	1	22.59	-10.34	-74.45	7.23	0.0	-0.10
702	20	23.66	-15.92	-54.58	11.50	0.0	-0.11
	7	10.47	-13.88	-29.01	10.20	0.0	-0.10
	49	18.77	-9.44	-33.84	4.17	0.0	0.25
	28	19.28	-18.96	-47.09	14.02	0.0	-0.14
	28	19.28	-18.96	-47.09	14.02	0.0	-0.14
	1	14.64	-10.84	-36.07	7.68	0.0	-0.08
704	20	10.57	-16.33	-23.83	11.91	0.0	-0.05
	73	18.47	-11.01	-10.08	7.30	0.0	1.64e-03

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	49	13.23	-10.63	-13.19	5.54	0.0	0.15
	28	8.70	-19.47	-22.09	14.53	0.0	-0.06
	27	8.63	-19.47	-22.03	14.53	0.0	-0.06
	1	6.54	-11.11	-17.04	7.95	0.0	-0.03
706	80	-17.51	-11.23	-22.08	8.50	0.0	1.79e-03
	77	20.65	-11.18	1.08	7.54	0.0	0.02
	49	11.86	-10.80	-4.57	6.09	0.0	0.06
	28	2.25	-19.65	-13.48	14.64	0.0	0.02
	27	2.24	-19.65	-13.49	14.64	0.0	0.02
	1	1.58	-11.20	-10.51	8.01	0.0	0.01
708	80	-31.84	-11.22	-32.99	8.38	0.0	0.03
	77	28.45	-11.06	11.00	7.33	0.0	0.09
	51	-1.85	-10.73	-11.43	5.84	0.0	0.16
	27	-2.47	-19.52	-14.21	14.33	0.0	0.11
	27	-2.47	-19.52	-14.21	14.33	0.0	0.11
	1	-2.10	-11.14	-11.10	7.84	0.0	0.06
710	80	-52.99	-11.25	-61.88	8.18	0.0	0.04
	77	40.22	-10.52	25.15	6.70	0.0	0.18
	51	-7.46	-9.77	-19.91	4.80	0.0	0.34
	27	-9.24	-19.03	-24.84	13.54	0.0	0.21
	27	-9.24	-19.03	-24.84	13.54	0.0	0.21
	1	-7.36	-10.88	-19.31	7.43	0.0	0.11
712	80	-77.44	-10.05	-118.89	7.89	0.0	0.05
	77	50.45	-10.71	42.59	5.67	0.0	0.26
	51	-15.69	-12.95	-42.28	3.06	0.0	0.46
	27	-19.49	-18.08	-53.36	12.28	0.0	0.30
	27	-19.49	-18.08	-53.36	12.28	0.0	0.30
	1	-15.26	-10.37	-41.21	6.76	0.0	0.16
714	80	-88.62	-8.80	-201.55	7.44	0.0	0.17
	77	52.47	-10.22	50.41	4.41	0.0	0.20
	51	-20.78	-14.10	-83.48	1.10	0.0	0.42
	50	-15.37	-4.92	-67.66	10.75	0.0	-0.05
	27	-26.06	-16.55	-107.25	10.69	0.0	0.34
	1	-20.29	-9.50	-82.43	5.91	0.0	0.19
718	96	15.63	5.81	-94.42	8.66	0.0	-6.71e-03
	93	-8.90	11.87	-9.03	-17.95	0.0	0.27
	91	-14.46	13.55	-24.63	-19.42	0.0	0.38
	90	21.19	4.12	-78.83	10.12	0.0	-0.12
	38	20.69	2.68	-32.08	9.29	0.0	-0.21
	39	-13.97	14.99	-71.38	-18.58	0.0	0.48
727	36	-7.87	10.55	-159.41	-10.68	0.0	0.88
	33	8.52	4.31	16.39	3.02	0.0	-0.39
	91	-12.12	10.00	-29.33	-16.37	0.0	1.25
	90	12.77	4.85	-113.70	8.71	0.0	-0.76
	38	13.15	2.94	-16.37	8.17	0.0	-0.77
	39	-12.50	11.91	-126.66	-15.83	0.0	1.26
735	33	40.21	7.37	-35.20	0.74	0.0	0.68
	36	-37.14	11.26	-1.89	-10.75	0.0	-0.81
	91	-31.79	10.78	-25.87	-16.21	0.0	-1.13
	90	34.86	7.85	-11.22	6.20	0.0	1.00
	39	-49.14	11.97	-7.87	-15.25	0.0	-1.22
	38	52.21	6.66	-29.21	5.24	0.0	1.09
743	35	-75.80	-2.82	-93.62	-1.25	0.0	-1.23
	34	59.62	16.07	58.19	-4.95	0.0	0.53
	93	-20.19	3.61	-34.88	-7.37	0.0	-0.79
	96	4.02	9.63	-0.55	1.17	0.0	0.10
	39	-72.94	-2.80	-91.37	-1.45	0.0	-1.24
	38	56.76	16.04	55.94	-4.75	0.0	0.55
752	20	5.57	13.68	-47.46	-7.58	0.0	0.06
	91	-19.62	13.21	-21.04	-19.16	0.0	-0.48
	91	-19.62	13.21	-21.04	-19.16	0.0	-0.48
	90	26.89	5.42	-45.87	9.09	0.0	0.57
	39	-24.44	14.55	-25.03	-18.29	0.0	-0.51
	38	31.71	4.08	-41.88	8.21	0.0	0.60
761	39	-77.88	4.36	-41.07	-1.80	0.0	-1.65
	38	71.57	12.78	17.55	-6.99	0.0	1.22
	89	-10.39	7.69	-27.07	-11.45	0.0	-0.80
	92	4.08	9.45	3.55	2.67	0.0	0.37
	39	-77.88	4.36	-41.07	-1.80	0.0	-1.65
	38	71.57	12.78	17.55	-6.99	0.0	1.22
770	96	-26.07	-0.64	-89.58	3.14	0.0	-0.69
	93	7.83	6.75	18.47	-6.02	0.0	-0.09
	93	7.83	6.75	18.47	-6.02	0.0	-0.09
	96	-26.07	-0.64	-89.58	3.14	0.0	-0.69

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	38	-5.18	8.26	-18.89	-2.34	0.0	-1.16
	39	-13.06	-2.15	-52.23	-0.54	0.0	0.39
779	81	2.11	44.77	-82.28	0.0	1.67	0.07
	84	0.24	-39.39	-11.01	0.0	-3.56e-03	-2.89e-03
	42	3.58	-2.03	-51.08	0.0	7.44	-0.11
	43	-1.22	7.40	-42.21	0.0	-5.77	0.18
	35	-1.12	5.30	-34.88	0.0	-6.38	0.15
	34	3.47	0.07	-58.41	0.0	8.05	-0.07
781	81	2.07	55.59	-85.69	0.0	1.47	0.13
	84	-0.07	-46.75	-5.26	0.0	-0.08	-0.02
	42	3.57	-3.05	-44.22	0.0	7.73	-0.10
	43	-1.56	11.89	-46.73	0.0	-6.34	0.20
	35	-1.44	9.80	-41.17	0.0	-6.89	-2.86e-03
	34	3.45	-0.96	-49.78	0.0	8.27	0.11
797	81	0.31	65.06	-71.39	0.0	0.70	0.13
	84	0.56	-54.80	-4.84	0.0	-0.16	-0.04
	36	-1.60	-19.22	-21.80	0.0	-5.82	-0.14
	33	2.47	29.48	-54.43	0.0	6.36	0.23
	35	-2.27	14.26	-39.77	0.0	-6.90	-0.09
	34	3.14	-4.01	-36.46	0.0	7.44	0.18
799	81	-0.06	64.92	-61.51	0.0	0.36	0.11
	84	0.54	-56.13	-8.65	0.0	-0.13	-0.04
	36	-1.47	-20.04	-21.07	0.0	-5.45	-0.16
	33	1.95	28.84	-49.09	0.0	5.68	0.22
	35	-2.26	13.71	-35.29	0.0	-6.64	-0.13
	34	2.75	-4.92	-34.87	0.0	6.86	0.19
815	77	1.30	5.53	-55.20	0.0	4.65	0.12
	80	-1.10	-1.61	-9.09	0.0	-4.67	-0.12
	35	-1.83	28.47	-18.48	0.0	-5.72	-0.18
	34	2.04	-24.55	-45.80	0.0	5.70	0.17
	43	-2.31	27.26	-20.44	0.0	-5.73	-0.17
	42	2.52	-23.34	-43.85	0.0	5.70	0.16
817	77	1.14	-1.22	-69.68	0.0	4.37	0.05
	80	-0.79	2.66	4.83	0.0	-4.31	-0.10
	43	-1.87	27.48	-9.01	0.0	-5.20	-0.19
	42	2.23	-26.04	-55.84	0.0	5.26	0.15
	43	-1.87	27.48	-9.01	0.0	-5.20	-0.19
	42	2.23	-26.04	-55.84	0.0	5.26	0.15
833	77	3.31	-12.76	-124.44	0.0	5.64	-0.43
	80	-1.24	11.40	52.68	0.0	-4.81	0.26
	41	3.33	-10.18	-114.79	0.0	5.52	-0.43
	44	-1.26	8.82	43.03	0.0	-4.69	0.26
	36	-1.21	10.98	49.70	0.0	-4.83	0.24
	33	3.27	-12.34	-121.45	0.0	5.66	-0.41
835	77	12.29	-14.74	-178.06	0.0	8.08	-0.73
	80	-7.03	13.66	96.82	0.0	-6.41	0.52
	41	11.42	-12.18	-163.76	0.0	7.55	-0.69
	44	-6.16	11.09	82.53	0.0	-5.87	0.48
	80	-7.03	13.66	96.82	0.0	-6.41	0.52
	77	12.29	-14.74	-178.06	0.0	8.08	-0.73



## RISULTATI ELEMENTI TIPO TRAVE

### LEGENDA RISULTATI ELEMENTI TIPO TRAVE

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

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

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

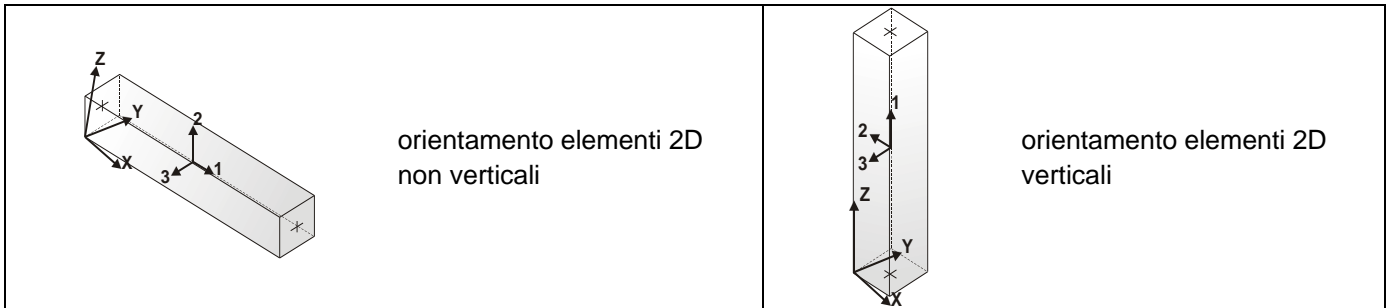
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

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

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



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
		kN m	kN m	m	kN	cm	kN	kN	kN	kN m	kN m	kN m
1	1	0.26	3.49	-4.23e-05	0.0	0.0	-105.50	-0.14	1.77	0.02	-3.15	0.26
		-0.25	-3.15	-6.03e-05	0.0	187.5	-99.87	-0.14	1.77	0.02	0.17	3.93e-03
						375.0	-94.25	-0.14	1.77	0.02	3.49	-0.25
1	2	0.16	3.49	-5.00e-05	0.0	0.0	-104.35	-0.10	1.79	0.02	-3.24	0.16
		-0.20	-3.24	-6.03e-05	0.0	187.5	-98.72	-0.10	1.79	0.02	0.12	-0.02
						375.0	-93.10	-0.10	1.79	0.02	3.49	-0.20
1	3	1.08	3.52	9.10e-06	0.0	0.0	-98.03	-0.60	2.05	0.02	-4.15	1.08
		-1.15	-4.15	5.77e-05	0.0	187.5	-90.72	-0.60	2.05	0.02	-0.31	-0.04
						375.0	-83.40	-0.60	2.05	0.02	3.52	-1.15
1	4	1.07	3.58	8.00e-06	0.0	0.0	-101.02	-0.59	2.06	0.02	-4.16	1.07
		-1.13	-4.16	5.68e-05	0.0	187.5	-93.71	-0.59	2.06	0.02	-0.29	-0.03
						375.0	-86.40	-0.59	2.06	0.02	3.58	-1.13
1	5	0.83	3.51	-1.81e-05	0.0	0.0	-95.15	-0.49	2.10	0.02	-4.38	0.83
		-1.02	-4.38	6.49e-05	0.0	187.5	-87.84	-0.49	2.10	0.02	-0.44	-0.09
						375.0	-80.52	-0.49	2.10	0.02	3.51	-1.02
1	6	0.82	3.56	-1.93e-05	0.0	0.0	-98.14	-0.48	2.12	0.02	-4.39	0.82
		-1.00	-4.39	6.40e-05	0.0	187.5	-90.83	-0.48	2.12	0.02	-0.42	-0.09
						375.0	-83.52	-0.48	2.12	0.02	3.56	-1.00
1	7	0.71	2.54	6.96e-06	0.0	0.0	-66.63	-0.40	1.39	0.02	-2.66	0.71
		-0.77	-2.66	-3.32e-05	0.0	187.5	-61.00	-0.40	1.39	0.02	-0.06	-0.03
						375.0	-55.38	-0.40	1.39	0.02	2.54	-0.77
1	8	0.70	2.59	5.86e-06	0.0	0.0	-69.62	-0.39	1.40	0.02	-2.68	0.70
		-0.75	-2.68	-3.47e-05	0.0	187.5	-64.00	-0.39	1.40	0.02	-0.04	-0.02
						375.0	-58.37	-0.39	1.40	0.02	2.59	-0.75
1	9	0.46	2.52	-1.75e-05	0.0	0.0	-63.75	-0.29	1.44	0.01	-2.90	0.46
		-0.63	-2.90	3.73e-05	0.0	187.5	-58.12	-0.29	1.44	0.01	-0.19	-0.09
						375.0	-52.50	-0.29	1.44	0.01	2.52	-0.63
1	10	0.45	2.57	-1.86e-05	0.0	0.0	-66.74	-0.28	1.46	0.01	-2.91	0.45
		-0.61	-2.91	-3.79e-05	0.0	187.5	-61.12	-0.28	1.46	0.01	-0.17	-0.08
						375.0	-55.49	-0.28	1.46	0.01	2.57	-0.61
1	11	1.05	3.63	6.90e-06	0.0	0.0	-104.01	-0.58	2.08	0.02	-4.17	1.05
		-1.11	-4.17	5.59e-05	0.0	187.5	-96.70	-0.58	2.08	0.02	-0.27	-0.03
						375.0	-89.39	-0.58	2.08	0.02	3.63	-1.11
1	12	0.90	3.51	-1.24e-05	0.0	0.0	-96.01	-0.52	2.09	0.02	-4.31	0.90
		-1.06	-4.31	6.28e-05	0.0	187.5	-88.70	-0.52	2.09	0.02	-0.40	-0.08
						375.0	-81.39	-0.52	2.09	0.02	3.51	-1.06
1	13	0.88	3.62	-1.46e-05	0.0	0.0	-102.00	-0.50	2.12	0.02	-4.34	0.88
		-1.02	-4.34	6.10e-05	0.0	187.5	-94.69	-0.50	2.12	0.02	-0.36	-0.07
						375.0	-87.37	-0.50	2.12	0.02	3.62	-1.02
1	14	0.68	2.64	4.76e-06	0.0	0.0	-72.62	-0.38	1.42	0.02	-2.69	0.68
		-0.73	-2.69	-3.62e-05	0.0	187.5	-66.99	-0.38	1.42	0.02	-0.02	-0.02
						375.0	-61.37	-0.38	1.42	0.02	2.64	-0.73
1	15	0.54	2.52	-1.17e-05	0.0	0.0	-64.61	-0.32	1.43	0.01	-2.83	0.54
		-0.67	-2.83	-3.57e-05	0.0	187.5	-58.99	-0.32	1.43	0.01	-0.15	-0.07
						375.0	-53.36	-0.32	1.43	0.01	2.52	-0.67
1	16	0.51	2.63	-1.40e-05	0.0	0.0	-70.60	-0.30	1.46	0.01	-2.85	0.51
		-0.63	-2.85	-3.75e-05	0.0	187.5	-64.98	-0.30	1.46	0.01	-0.11	-0.06
						375.0	-59.35	-0.30	1.46	0.01	2.63	-0.63
1	17	0.30	4.82	-6.40e-05	0.0	0.0	-148.89	-0.16	2.47	0.03	-4.45	0.30
		-0.28	-4.45	-8.06e-05	0.0	187.5	-141.58	-0.16	2.47	0.03	0.18	0.01
						375.0	-134.27	-0.16	2.47	0.03	4.82	-0.28
1	18	0.29	4.87	-6.51e-05	0.0	0.0	-151.89	-0.15	2.49	0.03	-4.46	0.29
		-0.26	-4.46	-8.22e-05	0.0	187.5	-144.57	-0.15	2.49	0.03	0.20	0.01
						375.0	-137.26	-0.15	2.49	0.03	4.87	-0.26
1	19	0.13	4.80	-7.74e-05	0.0	0.0	-146.88	-0.08	2.51	0.03	-4.61	0.13
		-0.19	-4.61	-8.06e-05	0.0	187.5	-139.56	-0.08	2.51	0.03	0.09	-0.03
						375.0	-132.25	-0.08	2.51	0.03	4.80	-0.19
1	20	0.11	4.85	-7.85e-05	0.0	0.0	-149.87	-0.07	2.53	0.03	-4.63	0.11
		-0.16	-4.63	-8.21e-05	0.0	187.5	-142.56	-0.07	2.53	0.03	0.11	-0.03
						375.0	-135.25	-0.07	2.53	0.03	4.85	-0.16
1	21	0.10	3.83	-6.33e-05	0.0	0.0	-117.49	0.04	1.81	0.02	-2.97	-0.07
		-0.07	-2.97	-7.58e-05	0.0	187.5	-111.87	0.04	1.81	0.02	0.43	0.02
						375.0	-106.24	0.04	1.81	0.02	3.83	0.10
1	22	0.12	3.88	-6.45e-05	0.0	0.0	-120.49	0.05	1.83	0.02	-2.98	-0.08
		-0.08	-2.98	-7.73e-05	0.0	187.5	-114.86	0.05	1.83	0.02	0.45	0.02
						375.0	-109.24	0.05	1.83	0.02	3.88	0.12
1	23	0.20	3.81	-7.68e-05	0.0	0.0	-115.48	0.12	1.85	0.02	-3.13	-0.24
		-0.24	-3.13	-7.57e-05	0.0	187.5	-109.85	0.12	1.85	0.02	0.34	-0.02
						375.0	-104.23	0.12	1.85	0.02	3.81	0.20
1	24	0.22	3.87	-7.79e-05	0.0	0.0	-118.47	0.13	1.87	0.02	-3.14	-0.26
		-0.26	-3.14	-7.72e-05	0.0	187.5	-112.85	0.13	1.87	0.02	0.36	-0.02

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
1	25	1.08	3.53	9.26e-06	0.0	375.0	-107.22	0.13	1.87	0.02	3.87	0.22
		-1.15	-4.17	5.87e-05	0.0	0.0	-98.03	-0.59	2.05	0.02	-4.17	1.08
						187.5	-90.72	-0.59	2.05	0.02	-0.32	-0.04
						375.0	-83.40	-0.59	2.05	0.02	3.53	-1.15
1	26	1.06	3.58	8.16e-06	0.0	0.0	-101.02	-0.59	2.07	0.02	-4.18	1.06
		-1.13	-4.18	5.78e-05	0.0	187.5	-93.71	-0.59	2.07	0.02	-0.30	-0.03
						375.0	-86.40	-0.59	2.07	0.02	3.58	-1.13
1	27	0.90	3.51	-1.22e-05	0.0	0.0	-96.01	-0.52	2.09	0.02	-4.33	0.90
		-1.06	-4.33	6.38e-05	0.0	187.5	-88.70	-0.52	2.09	0.02	-0.41	-0.08
						375.0	-81.39	-0.52	2.09	0.02	3.51	-1.06
1	28	0.89	3.57	-1.33e-05	0.0	0.0	-99.01	-0.51	2.11	0.02	-4.34	0.89
		-1.04	-4.34	6.29e-05	0.0	187.5	-91.69	-0.51	2.11	0.02	-0.39	-0.07
						375.0	-84.38	-0.51	2.11	0.02	3.57	-1.04
1	29	0.71	2.54	7.11e-06	0.0	0.0	-66.63	-0.39	1.39	0.02	-2.68	0.71
		-0.77	-2.68	-3.18e-05	0.0	187.5	-61.00	-0.39	1.39	0.02	-0.07	-0.03
						375.0	-55.38	-0.39	1.39	0.02	2.54	-0.77
1	30	0.70	2.59	6.01e-06	0.0	0.0	-69.62	-0.39	1.41	0.02	-2.70	0.70
		-0.75	-2.70	-3.33e-05	0.0	187.5	-64.00	-0.39	1.41	0.02	-0.05	-0.03
						375.0	-58.37	-0.39	1.41	0.02	2.59	-0.75
1	31	0.54	2.53	-1.16e-05	0.0	0.0	-64.61	-0.32	1.43	0.02	-2.85	0.54
		-0.67	-2.85	3.62e-05	0.0	187.5	-58.99	-0.32	1.43	0.02	-0.16	-0.07
						375.0	-53.36	-0.32	1.43	0.02	2.53	-0.67
1	32	0.52	2.58	-1.27e-05	0.0	0.0	-67.61	-0.31	1.45	0.02	-2.86	0.52
		-0.65	-2.86	-3.53e-05	0.0	187.5	-61.98	-0.31	1.45	0.02	-0.14	-0.07
						375.0	-56.36	-0.31	1.45	0.02	2.58	-0.65
1	33	38.64	10.95	3.02e-03	0.0	0.0	-60.27	-21.05	-9.52	1.88	10.95	38.64
		-40.31	-26.30	0.01	0.0	187.5	-54.64	-21.05	-9.52	1.88	-7.67	-0.83
						375.0	-49.02	-21.05	-9.52	1.88	-26.30	-40.31
1	34	74.23	6.56	5.91e-03	0.0	0.0	-62.86	-40.46	-6.24	0.20	6.56	74.23
		-77.51	-18.15	9.91e-03	0.0	187.5	-57.24	-40.46	-6.24	0.20	-5.80	-1.64
						375.0	-51.61	-40.46	-6.24	0.20	-18.15	-77.51
1	35	75.94	23.40	-5.92e-03	0.0	0.0	-78.01	39.68	9.27	-0.18	-12.64	-72.87
		-72.87	-12.64	-9.95e-03	0.0	187.5	-72.39	39.68	9.27	-0.18	5.38	1.54
						375.0	-66.76	39.68	9.27	-0.18	23.40	75.94
1	36	38.74	31.55	-3.04e-03	0.0	0.0	-80.61	20.27	12.55	-1.86	-17.03	-37.28
		-37.28	-17.03	-0.01	0.0	187.5	-74.98	20.27	12.55	-1.86	7.26	0.73
						375.0	-69.36	20.27	12.55	-1.86	31.55	38.74
1	37	33.17	10.76	2.57e-03	0.0	0.0	-60.59	-18.07	-9.29	1.71	10.76	33.17
		-34.61	-25.58	0.01	0.0	187.5	-54.97	-18.07	-9.29	1.71	-7.41	-0.72
						375.0	-49.34	-18.07	-9.29	1.71	-25.58	-34.61
1	38	79.70	6.75	6.36e-03	0.0	0.0	-62.54	-43.44	-6.48	0.38	6.75	79.70
		-83.21	-18.87	0.01	0.0	187.5	-56.91	-43.44	-6.48	0.38	-6.06	-1.76
						375.0	-51.29	-43.44	-6.48	0.38	-18.87	-83.21
1	39	81.65	24.12	-6.37e-03	0.0	0.0	-78.34	42.66	9.50	-0.35	-12.83	-78.34
		-78.34	-12.83	-0.01	0.0	187.5	-72.71	42.66	9.50	-0.35	5.64	1.65
						375.0	-67.09	42.66	9.50	-0.35	24.12	81.65
1	40	33.04	30.83	-2.59e-03	0.0	0.0	-80.28	17.29	12.31	-1.68	-16.84	-31.81
		-31.81	-16.84	-0.01	0.0	187.5	-74.66	17.29	12.31	-1.68	7.00	0.62
						375.0	-69.03	17.29	12.31	-1.68	30.83	33.04
1	41	48.81	-5.88	-3.86e-03	0.0	0.0	-64.19	25.45	-4.64	0.31	-5.88	-46.62
		-46.62	-14.68	7.85e-03	0.0	187.5	-58.57	25.45	-4.64	0.31	-10.28	1.10
						375.0	-52.94	25.45	-4.64	0.31	-14.68	48.81
1	42	11.61	-6.54	-9.76e-04	0.0	0.0	-66.79	6.04	-1.36	-1.38	-10.28	-11.03
		-11.03	-10.28	4.55e-03	0.0	187.5	-61.17	6.04	-1.36	-1.38	-8.41	0.29
						375.0	-55.54	6.04	-1.36	-1.38	-6.54	11.61
1	43	12.39	11.79	9.63e-04	0.0	0.0	-74.08	-6.82	4.38	1.40	4.20	12.39
		-13.18	4.20	-4.59e-03	0.0	187.5	-68.46	-6.82	4.38	1.40	7.99	-0.40
						375.0	-62.83	-6.82	4.38	1.40	11.79	-13.18
1	44	47.98	19.94	3.85e-03	0.0	0.0	-76.68	-26.23	7.66	-0.28	-0.20	47.98
		-50.38	-0.20	-7.89e-03	0.0	187.5	-71.05	-26.23	7.66	-0.28	9.87	-1.20
						375.0	-65.43	-26.23	7.66	-0.28	19.94	-50.38
1	45	54.52	-6.08	-4.31e-03	0.0	0.0	-64.52	28.43	-4.41	0.13	-6.08	-52.08
		-52.08	-13.97	7.45e-03	0.0	187.5	-58.90	28.43	-4.41	0.13	-10.02	1.22
						375.0	-53.27	28.43	-4.41	0.13	-13.97	54.52
1	46	5.91	-7.26	-5.26e-04	0.0	0.0	-66.46	3.06	-1.60	-1.20	-10.08	-5.56
		-5.56	-10.08	4.95e-03	0.0	187.5	-60.84	3.06	-1.60	-1.20	-8.67	0.18
						375.0	-55.21	3.06	-1.60	-1.20	-7.26	5.91
1	47	6.92	12.51	5.13e-04	0.0	0.0	-74.41	-3.84	4.62	1.23	4.00	6.92
		-7.48	4.00	-4.99e-03	0.0	187.5	-68.78	-3.84	4.62	1.23	8.25	-0.28
						375.0	-63.16	-3.84	4.62	1.23	12.51	-7.48
1	48	53.44	19.22	4.30e-03	0.0	0.0	-76.35	-29.21	7.43	-0.10	-2.89e-03	53.44
		-56.08	-2.89e-03	-7.49e-03	0.0	187.5	-70.73	-29.21	7.43	-0.10	9.61	-1.32
						375.0	-65.10	-29.21	7.43	-0.10	19.22	-56.08
1	49	43.78	7.83	-3.48e-03	0.0	0.0	-63.45	22.85	-6.78	3.12	7.83	-41.91

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
		-41.91	-18.40	8.96e-03	0.0	187.5	-57.82	22.85	-6.78	3.12	-5.29	0.94
						375.0	-52.20	22.85	-6.78	3.12	-18.40	43.78
1	50	76.72	8.75	6.15e-03	0.0	0.0	-72.10	-41.85	4.16	-2.48	-6.83	76.72
		-80.22	-6.83	-2.05e-03	0.0	187.5	-66.47	-41.85	4.16	-2.48	0.96	-1.75
						375.0	-60.85	-41.85	4.16	-2.48	8.75	-80.22
1	51	78.66	0.75	-6.16e-03	0.0	0.0	-68.77	41.07	-1.14	2.51	0.75	-75.36
		-75.36	-3.49	2.01e-03	0.0	187.5	-63.15	41.07	-1.14	2.51	-1.37	1.65
						375.0	-57.52	41.07	-1.14	2.51	-3.49	78.66
1	52	43.27	23.66	3.46e-03	0.0	0.0	-77.42	-23.63	9.80	-3.10	-13.91	43.27
		-45.34	-13.91	-9.00e-03	0.0	187.5	-71.80	-23.63	9.80	-3.10	4.87	-1.04
						375.0	-66.17	-23.63	9.80	-3.10	23.66	-45.34
1	53	70.52	2.78	-5.54e-03	0.0	0.0	-64.63	36.80	-5.31	2.65	2.78	-67.48
		-67.48	-14.92	7.35e-03	0.0	187.5	-59.00	36.80	-5.31	2.65	-6.07	1.52
						375.0	-53.38	36.80	-5.31	2.65	-14.92	70.52
1	54	51.14	12.23	4.08e-03	0.0	0.0	-73.28	-27.90	5.63	-2.95	-11.88	51.14
		-53.48	-11.88	-3.66e-03	0.0	187.5	-67.65	-27.90	5.63	-2.95	0.18	-1.17
						375.0	-62.03	-27.90	5.63	-2.95	12.23	-53.48
1	55	51.92	5.80	-4.09e-03	0.0	0.0	-67.59	27.12	-2.60	2.98	5.80	-49.78
		-49.78	-6.98	3.62e-03	0.0	187.5	-61.97	27.12	-2.60	2.98	-0.59	1.07
						375.0	-56.34	27.12	-2.60	2.98	-6.98	51.92
1	56	68.84	20.17	5.53e-03	0.0	0.0	-76.25	-37.58	8.33	-2.62	-8.86	68.84
		-72.08	-8.86	-7.39e-03	0.0	187.5	-70.62	-37.58	8.33	-2.62	5.66	-1.62
						375.0	-65.00	-37.58	8.33	-2.62	20.17	-72.08
1	57	62.79	7.17	-4.98e-03	0.0	0.0	-64.53	32.78	-6.00	2.54	7.17	-60.14
		-60.14	-16.01	7.63e-03	0.0	187.5	-58.91	32.78	-6.00	2.54	-4.42	1.32
						375.0	-53.28	32.78	-6.00	2.54	-16.01	62.79
1	58	94.95	6.35	7.65e-03	0.0	0.0	-71.02	-51.78	3.38	-1.89	-6.17	94.95
		-99.23	-6.17	-7.20e-04	0.0	187.5	-65.39	-51.78	3.38	-1.89	0.09	-2.14
						375.0	-59.77	-51.78	3.38	-1.89	6.35	-99.23
1	59	97.66	0.09	-7.66e-03	0.0	0.0	-69.86	51.00	-0.36	1.92	0.09	-93.59
		-93.59	-1.10	6.82e-04	0.0	187.5	-64.23	51.00	-0.36	1.92	-0.50	2.04
						375.0	-58.61	51.00	-0.36	1.92	-1.10	97.66
1	60	61.50	21.26	4.96e-03	0.0	0.0	-76.34	-33.56	9.02	-2.51	-13.25	61.50
		-64.35	-13.25	-7.67e-03	0.0	187.5	-70.71	-33.56	9.02	-2.51	4.01	-1.43
						375.0	-65.09	-33.56	9.02	-2.51	21.26	-64.35
1	61	89.52	2.12	-7.04e-03	0.0	0.0	-65.71	46.73	-4.53	2.06	2.12	-85.71
		-85.71	-12.52	6.02e-03	0.0	187.5	-60.09	46.73	-4.53	2.06	-5.20	1.90
						375.0	-54.46	46.73	-4.53	2.06	-12.52	89.52
1	62	69.37	9.83	5.58e-03	0.0	0.0	-72.19	-37.83	4.85	-2.36	-11.22	69.37
		-72.49	-11.22	-2.33e-03	0.0	187.5	-66.57	-37.83	4.85	-2.36	-0.69	-1.56
						375.0	-60.94	-37.83	4.85	-2.36	9.83	-72.49
1	63	70.93	5.14	-5.59e-03	0.0	0.0	-68.68	37.05	-1.82	2.39	5.14	-68.01
		-68.01	-4.58	2.29e-03	0.0	187.5	-63.05	37.05	-1.82	2.39	0.28	1.46
						375.0	-57.43	37.05	-1.82	2.39	-4.58	70.93
1	64	87.07	17.78	7.03e-03	0.0	0.0	-75.16	-47.51	7.55	-2.03	-8.20	87.07
		-91.09	-8.20	-6.06e-03	0.0	187.5	-69.54	-47.51	7.55	-2.03	4.79	-2.01
						375.0	-63.91	-47.51	7.55	-2.03	17.78	-91.09
1	65	35.02	-8.49	2.79e-03	0.0	0.0	-62.12	-19.16	-6.05	2.06	-8.49	35.02
		-36.81	-18.80	0.01	0.0	187.5	-56.49	-19.16	-6.05	2.06	-13.65	-0.90
						375.0	-50.87	-19.16	-6.05	2.06	-18.80	-36.81
1	66	74.37	-10.22	5.99e-03	0.0	0.0	-64.84	-40.62	-2.59	0.29	-13.18	74.37
		-77.97	-13.18	6.67e-03	0.0	187.5	-59.21	-40.62	-2.59	0.29	-11.70	-1.80
						375.0	-53.59	-40.62	-2.59	0.29	-10.22	-77.97
1	67	76.40	15.47	-6.00e-03	0.0	0.0	-76.03	39.84	5.61	-0.26	7.10	-73.01
		-73.01	7.10	-6.71e-03	0.0	187.5	-70.41	39.84	5.61	-0.26	11.28	1.70
						375.0	-64.78	39.84	5.61	-0.26	15.47	76.40
1	68	35.25	24.05	-2.80e-03	0.0	0.0	-78.75	18.38	9.07	-2.03	2.41	-33.66
		-33.66	2.41	-0.01	0.0	187.5	-73.13	18.38	9.07	-2.03	13.23	0.79
						375.0	-67.50	18.38	9.07	-2.03	24.05	35.25
1	69	28.69	-8.61	2.27e-03	0.0	0.0	-62.41	-15.71	-5.88	1.91	-8.61	28.69
		-30.22	-18.24	9.81e-03	0.0	187.5	-56.79	-15.71	-5.88	1.91	-13.43	-0.77
						375.0	-51.16	-15.71	-5.88	1.91	-18.24	-30.22
1	70	80.71	-10.77	6.50e-03	0.0	0.0	-64.54	-44.07	-2.75	0.43	-13.06	80.71
		-84.56	-13.06	7.01e-03	0.0	187.5	-58.92	-44.07	-2.75	0.43	-11.92	-1.93
						375.0	-53.29	-44.07	-2.75	0.43	-10.77	-84.56
1	71	83.00	16.02	-6.52e-03	0.0	0.0	-76.33	43.29	5.77	-0.41	6.98	-79.35
		-79.35	6.98	-7.05e-03	0.0	187.5	-70.70	43.29	5.77	-0.41	11.50	1.83
						375.0	-65.08	43.29	5.77	-0.41	16.02	83.00
1	72	28.65	23.50	-2.28e-03	0.0	0.0	-78.46	14.93	8.91	-1.89	2.53	-27.33
		-27.33	2.53	-9.85e-03	0.0	187.5	-72.83	14.93	8.91	-1.89	13.01	0.66
						375.0	-67.21	14.93	8.91	-1.89	23.50	28.65
1	73	54.89	-6.12	-4.35e-03	0.0	0.0	-63.54	28.61	-5.29	0.29	-6.12	-52.39
		-52.39	-16.67	8.79e-03	0.0	187.5	-57.92	28.61	-5.29	0.29	-11.39	1.25
						375.0	-52.29	28.61	-5.29	0.29	-16.67	54.89

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
1	74	13.74	-8.08	-1.15e-03	0.0	0.0	-66.26	7.14	-1.83	-1.48	-10.81	-13.04
		-13.04	-10.81	5.31e-03	0.0	187.5	-60.64	7.14	-1.83	-1.48	-9.44	0.35
						375.0	-55.01	7.14	-1.83	-1.48	-8.08	13.74
1	75	14.40	13.33	1.13e-03	0.0	0.0	-74.61	-7.92	4.85	1.51	4.73	14.40
		-15.30	4.73	-5.34e-03	0.0	187.5	-68.98	-7.92	4.85	1.51	9.03	-0.45
						375.0	-63.36	-7.92	4.85	1.51	13.33	-15.30
1	76	53.75	21.92	4.33e-03	0.0	0.0	-77.33	-29.39	8.31	-0.26	0.04	53.75
		-56.45	0.04	-8.83e-03	0.0	187.5	-71.70	-29.39	8.31	-0.26	10.98	-1.35
						375.0	-66.08	-29.39	8.31	-0.26	21.92	-56.45
1	77	61.48	-6.24	-4.86e-03	0.0	0.0	-63.84	32.05	-5.12	0.14	-6.24	-58.72
		-58.72	-16.11	8.44e-03	0.0	187.5	-58.21	32.05	-5.12	0.14	-11.17	1.38
						375.0	-52.59	32.05	-5.12	0.14	-16.11	61.48
1	78	7.14	-8.64	-6.29e-04	0.0	0.0	-65.97	3.69	-1.99	-1.34	-10.69	-6.70
		-6.70	-10.69	5.65e-03	0.0	187.5	-60.34	3.69	-1.99	-1.34	-9.66	0.22
						375.0	-54.72	3.69	-1.99	-1.34	-8.64	7.14
1	79	8.06	13.89	6.16e-04	0.0	0.0	-74.90	-4.47	5.01	1.37	4.61	8.06
		-8.70	4.61	-5.69e-03	0.0	187.5	-69.28	-4.47	5.01	1.37	9.25	-0.32
						375.0	-63.65	-4.47	5.01	1.37	13.89	-8.70
1	80	60.08	21.36	4.85e-03	0.0	0.0	-77.03	-32.83	8.15	-0.12	0.16	60.08
		-63.05	0.16	-8.48e-03	0.0	187.5	-71.41	-32.83	8.15	-0.12	10.76	-1.48
						375.0	-65.78	-32.83	8.15	-0.12	21.36	-63.05
1	81	50.82	2.43	-4.02e-03	0.0	0.0	-63.81	26.54	-6.01	3.32	2.43	-48.69
		-48.69	-16.82	8.32e-03	0.0	187.5	-58.19	26.54	-6.01	3.32	-7.19	1.06
						375.0	-52.56	26.54	-6.01	3.32	-16.82	50.82
1	82	82.47	11.79	6.65e-03	0.0	0.0	-72.88	-45.02	5.54	-2.60	-13.19	82.47
		-86.35	-13.19	-3.30e-03	0.0	187.5	-67.26	-45.02	5.54	-2.60	-0.70	-1.94
						375.0	-61.63	-45.02	5.54	-2.60	11.79	-86.35
1	83	84.79	7.11	-6.66e-03	0.0	0.0	-67.99	44.24	-2.51	2.62	7.11	-81.10
		-81.10	-6.54	3.26e-03	0.0	187.5	-62.36	44.24	-2.51	2.62	0.29	1.84
						375.0	-56.74	44.24	-2.51	2.62	-6.54	84.79
1	84	50.06	22.07	4.01e-03	0.0	0.0	-77.06	-27.32	9.03	-3.29	-8.51	50.06
		-52.39	-8.51	-8.36e-03	0.0	187.5	-71.43	-27.32	9.03	-3.29	6.78	-1.17
						375.0	-65.81	-27.32	9.03	-3.29	22.07	-52.39
1	85	78.33	3.14	-6.16e-03	0.0	0.0	-64.24	40.87	-5.78	2.79	3.14	-74.92
		-74.92	-16.18	7.91e-03	0.0	187.5	-58.62	40.87	-5.78	2.79	-6.52	1.71
						375.0	-52.99	40.87	-5.78	2.79	-16.18	78.33
1	86	56.24	12.43	4.51e-03	0.0	0.0	-73.31	-30.69	5.76	-3.13	-12.48	56.24
		-58.84	-12.48	-3.71e-03	0.0	187.5	-67.69	-30.69	5.76	-3.13	-0.02	-1.30
						375.0	-62.06	-30.69	5.76	-3.13	12.43	-58.84
1	87	57.28	6.40	-4.52e-03	0.0	0.0	-67.56	29.91	-2.74	3.15	6.40	-54.88
		-54.88	-7.18	3.67e-03	0.0	187.5	-61.94	29.91	-2.74	3.15	-0.39	1.20
						375.0	-56.31	29.91	-2.74	3.15	-7.18	57.28
1	88	76.28	21.43	6.15e-03	0.0	0.0	-76.63	-41.65	8.81	-2.76	-9.22	76.28
		-79.90	-9.22	-7.95e-03	0.0	187.5	-71.01	-41.65	8.81	-2.76	6.10	-1.81
						375.0	-65.38	-41.65	8.81	-2.76	21.43	-79.90
1	89	72.81	2.04	-5.75e-03	0.0	0.0	-64.80	38.03	-5.46	2.83	2.04	-69.81
		-69.81	-14.97	7.17e-03	0.0	187.5	-59.17	38.03	-5.46	2.83	-6.47	1.50
						375.0	-53.55	38.03	-5.46	2.83	-14.97	72.81
1	90	103.58	9.94	8.37e-03	0.0	0.0	-71.90	-56.51	4.98	-2.11	-12.79	103.58
		-108.34	-12.79	-2.15e-03	0.0	187.5	-66.28	-56.51	4.98	-2.11	-1.43	-2.38
						375.0	-60.65	-56.51	4.98	-2.11	9.94	-108.34
1	91	106.78	6.71	-8.38e-03	0.0	0.0	-68.97	55.73	-1.96	2.13	6.71	-102.22
		-102.22	-4.69	2.11e-03	0.0	187.5	-63.35	55.73	-1.96	2.13	1.01	2.28
						375.0	-57.72	55.73	-1.96	2.13	-4.69	106.78
1	92	71.17	20.22	5.73e-03	0.0	0.0	-76.08	-38.81	8.48	-2.80	-8.12	71.17
		-74.37	-8.12	-7.20e-03	0.0	187.5	-70.45	-38.81	8.48	-2.80	6.05	-1.60
						375.0	-64.83	-38.81	8.48	-2.80	20.22	-74.37
1	93	100.32	2.75	-7.89e-03	0.0	0.0	-65.23	52.36	-5.23	2.30	2.75	-96.04
		-96.04	-14.33	6.76e-03	0.0	187.5	-59.60	52.36	-5.23	2.30	-5.79	2.14
						375.0	-53.98	52.36	-5.23	2.30	-14.33	100.32
1	94	77.36	10.58	6.23e-03	0.0	0.0	-72.33	-42.18	5.21	-2.64	-12.08	77.36
		-80.83	-12.08	-2.55e-03	0.0	187.5	-66.70	-42.18	5.21	-2.64	-0.75	-1.73
						375.0	-61.08	-42.18	5.21	-2.64	10.58	-80.83
1	95	79.27	6.00	-6.24e-03	0.0	0.0	-68.54	41.40	-2.19	2.67	6.00	-76.00
		-76.00	-5.33	2.52e-03	0.0	187.5	-62.92	41.40	-2.19	2.67	0.34	1.63
						375.0	-57.29	41.40	-2.19	2.67	-5.33	79.27
1	96	97.40	19.58	7.87e-03	0.0	0.0	-75.65	-53.14	8.25	-2.27	-8.83	97.40
		-101.88	-8.83	-6.79e-03	0.0	187.5	-70.02	-53.14	8.25	-2.27	5.38	-2.24
						375.0	-64.40	-53.14	8.25	-2.27	19.58	-101.88
5	1	5.19	6.48	1.26e-04	0.0	0.0	-242.95	-4.28	-4.26	-0.01	6.48	5.19
		-10.64	-9.26	1.55e-04	0.0	185.0	-237.40	-4.28	-4.26	-0.01	-1.39	-2.72
						370.0	-231.85	-4.28	-4.26	-0.01	-9.26	-10.64
5	2	5.24	7.40	1.27e-04	0.0	0.0	-253.79	-4.31	-4.85	-0.02	7.40	5.24
		-10.72	-10.55	1.76e-04	0.0	185.0	-248.24	-4.31	-4.85	-0.02	-1.58	-2.74

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
						370.0	-242.69	-4.31	-4.85	-0.02	-10.55	-10.72
5	3	7.78	6.86	1.96e-04	0.0	0.0	-267.35	-6.31	-4.44	-0.02	6.86	7.78
		-15.56	-9.55	1.54e-04	0.0	185.0	-260.14	-6.31	-4.44	-0.02	-1.35	-3.89
						370.0	-252.92	-6.31	-4.44	-0.02	-9.55	-15.56
5	4	7.78	6.92	1.96e-04	0.0	0.0	-269.34	-6.31	-4.48	-0.02	6.92	7.78
...												
279	96	6.57	31.15	1.90e-04	0.0	38.8	-209.08	-12.38	27.13	4.69	41.81	6.57
Pilas.		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T		
		-343.24	-196.73	-0.02	0.0		-1523.23	-182.62	-100.98	-15.38		
		353.98	196.81	0.02	0.0		278.29	173.91	100.87	15.30		

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
		kN m	kN m	m	kN	cm	kN	kN	kN	kN m	kN m	kN m
2	1	4.38	-4.19e-03	-3.78e-04	-84.27	0.0	1.25	31.90	1.07e-03	-4.60	-7.36e-03	-13.58
		-44.05	-7.36e-03	2.53e-06	0.0	148.8	1.25	-10.24	1.07e-03	-4.60	-5.78e-03	2.53
						297.5	1.25	-52.37	1.07e-03	-4.60	-4.19e-03	-44.05
2	2	5.31	-3.54e-03	-4.20e-04	-100.20	0.0	1.27	37.01	1.17e-03	-4.65	-7.02e-03	-15.02
		-53.96	-7.02e-03	3.25e-06	0.0	148.8	1.27	-13.09	1.17e-03	-4.65	-5.28e-03	2.78
						297.5	1.27	-63.19	1.17e-03	-4.65	-3.54e-03	-53.96
2	3	6.82	0.01	-3.36e-04	-119.97	0.0	1.06	40.62	0.03	-6.46	-0.06	-13.53
		-71.14	-0.06	0.0	0.0	148.8	1.06	-19.36	0.03	-6.46	-0.03	2.29
						297.5	1.06	-79.35	0.03	-6.46	0.01	-71.14
2	4	6.77	0.01	-3.43e-04	-119.97	0.0	1.09	40.80	0.02	-6.47	-0.06	-13.74
		-70.83	-0.06	0.0	0.0	148.8	1.09	-19.18	0.02	-6.47	-0.03	2.34
						297.5	1.09	-79.17	0.02	-6.47	0.01	-70.83
2	5	9.33	0.01	-4.42e-04	-159.79	0.0	1.09	53.41	0.03	-6.59	-0.06	-17.12
		-95.93	-0.06	1.80e-06	0.0	148.8	1.09	-26.49	0.03	-6.59	-0.03	2.91
						297.5	1.09	-106.38	0.03	-6.59	0.01	-95.93
2	6	9.27	0.01	-4.50e-04	-159.79	0.0	1.12	53.59	0.03	-6.59	-0.06	-17.34
		-95.62	-0.06	1.80e-06	0.0	148.8	1.12	-26.31	0.03	-6.59	-0.02	2.95
						297.5	1.12	-106.20	0.03	-6.59	0.01	-95.62
2	7	4.16	4.11e-03	-2.15e-04	-73.86	0.0	0.59	25.20	0.01	-3.79	-0.03	-8.54
		-43.44	-0.03	1.86e-06	0.0	148.8	0.59	-11.73	0.01	-3.79	-0.01	1.48
						297.5	0.59	-48.66	0.01	-3.79	4.11e-03	-43.44
2	8	4.11	3.72e-03	-2.22e-04	-73.86	0.0	0.62	25.37	0.01	-3.79	-0.03	-8.76
		-43.13	-0.03	1.87e-06	0.0	148.8	0.62	-11.55	0.01	-3.79	-0.01	1.52
						297.5	0.62	-48.48	0.01	-3.79	3.72e-03	-43.13
2	9	6.67	5.72e-03	-3.21e-04	-113.67	0.0	0.62	37.98	0.01	-3.92	-0.03	-12.13
		-68.23	-0.03	3.65e-06	0.0	148.8	0.62	-18.85	0.01	-3.92	-0.01	2.09
						297.5	0.62	-75.69	0.01	-3.92	5.72e-03	-68.23
2	10	6.61	5.33e-03	-3.29e-04	-113.67	0.0	0.65	38.16	0.01	-3.92	-0.03	-12.35
		-67.92	-0.03	3.67e-06	0.0	148.8	0.65	-18.68	0.01	-3.92	-0.01	2.14
						297.5	0.65	-75.51	0.01	-3.92	5.33e-03	-67.92
2	11	6.71	0.01	-3.50e-04	-119.97	0.0	1.11	40.98	0.02	-6.47	-0.06	-13.96
		-70.52	-0.06	0.0	0.0	148.8	1.11	-19.01	0.02	-6.47	-0.03	2.38
						297.5	1.11	-78.99	0.02	-6.47	0.01	-70.52
2	12	8.57	0.01	-4.10e-04	-147.85	0.0	1.08	49.57	0.03	-6.55	-0.06	-16.04
		-88.49	-0.06	1.49e-06	0.0	148.8	1.08	-24.35	0.03	-6.55	-0.03	2.72
						297.5	1.08	-98.27	0.03	-6.55	0.01	-88.49
2	13	8.47	0.01	-4.25e-04	-147.85	0.0	1.13	49.93	0.02	-6.56	-0.06	-16.48
		-87.87	-0.06	1.47e-06	0.0	148.8	1.13	-23.99	0.02	-6.56	-0.02	2.82
						297.5	1.13	-97.92	0.02	-6.56	0.01	-87.87
2	14	4.08	3.33e-03	-2.30e-04	-73.86	0.0	0.64	25.55	0.01	-3.80	-0.03	-8.98
		-42.82	-0.03	1.89e-06	0.0	148.8	0.64	-11.38	0.01	-3.80	-0.01	1.57
						297.5	0.64	-48.30	0.01	-3.80	3.33e-03	-42.82
2	15	5.91	5.24e-03	-2.89e-04	-101.73	0.0	0.61	34.15	0.01	-3.88	-0.03	-11.06
		-60.80	-0.03	3.11e-06	0.0	148.8	0.61	-16.72	0.01	-3.88	-0.01	1.91
						297.5	0.61	-67.58	0.01	-3.88	5.24e-03	-60.80
2	16	5.81	4.45e-03	-3.04e-04	-101.73	0.0	0.67	34.50	0.01	-3.89	-0.03	-11.49
		-60.18	-0.03	3.15e-06	0.0	148.8	0.67	-16.36	0.01	-3.89	-0.01	2.00
						297.5	0.67	-67.23	0.01	-3.89	4.45e-03	-60.18
2	17	6.21	-5.10e-03	-5.43e-04	-119.97	0.0	1.84	45.54	3.31e-03	-6.66	-0.01	-19.50
		-62.49	-0.01	3.71e-06	0.0	148.8	1.84	-14.45	3.31e-03	-6.66	-0.01	3.63
						297.5	1.84	-74.43	3.31e-03	-6.66	-5.10e-03	-62.49
2	18	6.19	-5.49e-03	-5.50e-04	-119.97	0.0	1.87	45.72	2.67e-03	-6.66	-0.01	-19.72
		-62.18	-0.01	3.73e-06	0.0	148.8	1.87	-14.27	2.67e-03	-6.66	-9.47e-03	3.67
						297.5	1.87	-74.26	2.67e-03	-6.66	-5.49e-03	-62.18
2	19	7.85	-3.98e-03	-6.17e-04	-147.85	0.0	1.86	54.49	3.48e-03	-6.75	-0.01	-22.02
		-79.84	-0.01	4.97e-06	0.0	148.8	1.86	-19.43	3.48e-03	-6.75	-9.16e-03	4.06
						297.5	1.86	-93.36	3.48e-03	-6.75	-3.98e-03	-79.84
2	20	7.83	-4.37e-03	-6.25e-04	-147.85	0.0	1.89	54.67	2.84e-03	-6.75	-0.01	-22.24
		-79.53	-0.01	4.98e-06	0.0	148.8	1.89	-19.26	2.84e-03	-6.75	-8.60e-03	4.10

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	
							297.5	1.89	-93.18	2.84e-03	-6.75	-4.37e-03	-79.53
2	21	3.65	0.02	-4.22e-04	-73.86	0.0	1.37	30.11	-0.01	-3.99	0.02	-14.52	
		-34.80	-0.01	5.62e-06	0.0	148.8	1.37	-6.82	-0.01	-3.99	3.72e-03	2.81	
						297.5	1.37	-43.74	-0.01	-3.99	-0.01	-34.80	
2	22	3.66	0.02	-4.29e-04	-73.86	0.0	1.40	30.29	-0.01	-3.99	0.02	-14.74	
		-34.49	-0.01	5.63e-06	0.0	148.8	1.40	-6.64	-0.01	-3.99	4.28e-03	2.86	
						297.5	1.40	-43.57	-0.01	-3.99	-0.01	-34.49	
2	23	5.27	0.02	-4.96e-04	-101.73	0.0	1.39	39.06	-0.01	-4.08	0.02	-17.03	
		-52.15	-0.01	6.87e-06	0.0	148.8	1.39	-11.80	-0.01	-4.08	4.59e-03	3.24	
						297.5	1.39	-62.67	-0.01	-4.08	-0.01	-52.15	
2	24	5.25	0.02	-5.04e-04	-101.73	0.0	1.42	39.24	-0.01	-4.08	0.02	-17.25	
		-51.84	-0.01	6.89e-06	0.0	148.8	1.42	-11.62	-0.01	-4.08	5.15e-03	3.29	
						297.5	1.42	-62.49	-0.01	-4.08	-0.01	-51.84	
2	25	6.82	0.01	-3.35e-04	-119.97	0.0	1.04	40.62	0.03	-6.44	-0.07	-13.52	
		-71.15	-0.07	1.45e-06	0.0	148.8	1.04	-19.37	0.03	-6.44	-0.03	2.29	
						297.5	1.04	-79.36	0.03	-6.44	0.01	-71.15	
2	26	6.77	0.01	-3.42e-04	-119.97	0.0	1.06	40.80	0.03	-6.45	-0.06	-13.74	
		-70.84	-0.06	1.44e-06	0.0	148.8	1.06	-19.19	0.03	-6.45	-0.03	2.34	
						297.5	1.06	-79.18	0.03	-6.45	0.01	-70.84	
2	27	8.58	0.01	-4.10e-04	-147.85	0.0	1.06	49.57	0.03	-6.53	-0.06	-16.03	
		-88.50	-0.06	2.31e-06	0.0	148.8	1.06	-24.35	0.03	-6.53	-0.03	2.72	
						297.5	1.06	-98.28	0.03	-6.53	0.01	-88.50	
2	28	8.52	0.01	-4.17e-04	-147.85	0.0	1.09	49.75	0.03	-6.54	-0.06	-16.25	
		-88.19	-0.06	2.32e-06	0.0	148.8	1.09	-24.18	0.03	-6.54	-0.03	2.77	
						297.5	1.09	-98.10	0.03	-6.54	0.01	-88.19	
2	29	4.16	4.06e-03	-2.14e-04	-73.86	0.0	0.57	25.19	0.01	-3.77	-0.03	-8.53	
		-43.45	-0.03	2.96e-06	0.0	148.8	0.57	-11.74	0.01	-3.77	-0.01	1.48	
						297.5	0.57	-48.66	0.01	-3.77	4.06e-03	-43.45	
2	30	4.11	3.67e-03	-2.22e-04	-73.86	0.0	0.60	25.37	0.01	-3.78	-0.03	-8.75	
		-43.14	-0.03	2.97e-06	0.0	148.8	0.60	-11.56	0.01	-3.78	-0.01	1.52	
						297.5	0.60	-48.49	0.01	-3.78	3.67e-03	-43.14	
2	31	5.92	5.19e-03	-2.89e-04	-101.73	0.0	0.59	34.14	0.01	-3.86	-0.03	-11.05	
		-60.81	-0.03	4.21e-06	0.0	148.8	0.59	-16.72	0.01	-3.86	-0.01	1.91	
						297.5	0.59	-67.59	0.01	-3.86	5.19e-03	-60.81	
2	32	5.86	4.80e-03	-2.96e-04	-101.73	0.0	0.62	34.32	0.01	-3.87	-0.03	-11.27	
		-60.50	-0.03	4.23e-06	0.0	148.8	0.62	-16.55	0.01	-3.87	-0.01	1.95	
						297.5	0.62	-67.41	0.01	-3.87	4.80e-03	-60.50	
2	33	150.22	0.19	-8.20e-04	-100.20	0.0	7.95	-63.22	-0.04	-2.15	0.19	150.22	
		-186.96	-0.05	-1.02e-03	0.0	148.8	7.95	-113.32	-0.04	-2.15	0.07	18.89	
						297.5	7.95	-163.42	-0.04	-2.15	-0.05	-186.96	
2	34	194.32	0.74	-9.76e-04	-100.20	0.0	10.10	-89.80	-0.36	7.56	0.74	194.32	
		-221.95	-0.44	-5.72e-04	0.0	148.8	10.10	-139.90	-0.36	7.56	0.15	23.45	
						297.5	10.10	-190.00	-0.36	7.56	-0.44	-221.95	
2	35	102.49	0.46	5.13e-04	-100.20	0.0	-8.62	157.27	0.39	-16.60	-0.82	-216.39	
		-216.39	-0.82	5.74e-04	0.0	148.8	-8.62	107.17	0.39	-16.60	-0.18	-19.68	
						297.5	-8.62	57.07	0.39	-16.60	0.46	102.49	
2	36	67.51	0.06	3.83e-04	-100.20	0.0	-6.46	130.69	0.08	-6.89	-0.27	-172.29	
		-172.29	-0.27	1.02e-03	0.0	148.8	-6.46	80.59	0.08	-6.89	-0.10	-15.12	
						297.5	-6.46	30.49	0.08	-6.89	0.06	67.51	
2	37	156.27	0.25	-8.32e-04	-100.20	0.0	9.91	-66.90	-0.08	-3.19	0.25	156.27	
		-191.87	-0.39	-1.03e-03	0.0	148.8	9.91	-117.00	-0.08	-3.19	-0.07	19.47	
						297.5	9.91	-167.10	-0.08	-3.19	-0.39	-191.87	
2	38	188.26	0.68	-9.64e-04	-100.20	0.0	8.14	-86.11	-0.32	8.59	0.68	188.26	
		-217.04	-0.10	-5.61e-04	0.0	148.8	8.14	-136.21	-0.32	8.59	0.29	22.88	
						297.5	8.14	-186.31	-0.32	8.59	-0.10	-217.04	
2	39	97.59	0.11	4.99e-04	-100.20	0.0	-6.65	153.59	0.35	-17.64	-0.76	-210.33	
		-210.33	-0.76	5.62e-04	0.0	148.8	-6.65	103.49	0.35	-17.64	-0.32	-19.10	
						297.5	-6.65	53.39	0.35	-17.64	0.11	97.59	
2	40	72.41	0.41	3.97e-04	-100.20	0.0	-8.42	134.38	0.11	-5.86	-0.33	-178.35	
		-178.35	-0.33	1.03e-03	0.0	148.8	-8.42	84.28	0.11	-5.86	0.04	-15.70	
						297.5	-8.42	34.18	0.11	-5.86	0.41	72.41	
2	41	119.77	0.68	-6.69e-04	-100.20	0.0	2.45	-45.11	-0.31	-5.15	0.68	119.77	
		-163.52	-0.23	3.19e-04	0.0	148.8	2.45	-95.21	-0.31	-5.15	0.23	15.39	
						297.5	2.45	-145.31	-0.31	-5.15	-0.23	-163.52	
2	42	163.88	1.23	-8.24e-04	-100.20	0.0	4.61	-71.69	-0.62	4.57	1.23	163.88	
		-198.51	-0.63	7.63e-04	0.0	148.8	4.61	-121.79	-0.62	4.57	0.30	19.95	
						297.5	4.61	-171.89	-0.62	4.57	-0.63	-198.51	
2	43	79.05	0.65	4.06e-04	-100.20	0.0	-3.12	139.16	0.65	-13.61	-1.31	-185.95	
		-185.95	-1.31	-7.61e-04	0.0	148.8	-3.12	89.06	0.65	-13.61	-0.33	-16.18	
						297.5	-3.12	38.96	0.65	-13.61	0.65	79.05	
2	44	44.07	0.25	2.76e-04	-100.20	0.0	-0.97	112.58	0.34	-3.90	-0.76	-141.85	
		-141.85	-0.76	-3.17e-04	0.0	148.8	-0.97	62.48	0.34	-3.90	-0.26	-11.62	
						297.5	-0.97	12.38	0.34	-3.90	0.25	44.07	
2	45	125.83	0.75	-6.80e-04	-100.20	0.0	4.42	-48.80	-0.34	-6.18	0.75	125.83	

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
		-168.43	-0.58	3.07e-04	0.0	148.8	4.42	-98.90	-0.34	-6.18	0.08	15.97
						297.5	4.42	-149.00	-0.34	-6.18	-0.58	-168.43
2	46	157.82	1.17	-8.12e-04	-100.20	0.0	2.65	-68.00	-0.58	5.60	1.17	157.82
		-193.60	-0.29	7.74e-04	0.0	148.8	2.65	-118.10	-0.58	5.60	0.44	19.37
						297.5	2.65	-168.20	-0.58	5.60	-0.29	-193.60
2	47	74.15	0.30	3.92e-04	-100.20	0.0	-1.16	135.48	0.62	-14.64	-1.25	-179.89
		-179.89	-1.25	-7.73e-04	0.0	148.8	-1.16	85.38	0.62	-14.64	-0.47	-15.60
						297.5	-1.16	35.28	0.62	-14.64	0.30	74.15
2	48	48.97	0.59	2.90e-04	-100.20	0.0	-2.93	116.27	0.38	-2.86	-0.83	-147.91
		-147.91	-0.83	-3.06e-04	0.0	148.8	-2.93	66.17	0.38	-2.86	-0.12	-12.20
						297.5	-2.93	16.07	0.38	-2.86	0.59	48.97
2	49	0.45	0.59	-2.08e-04	-100.20	0.0	-0.37	44.96	0.48	-18.54	-0.80	-29.55
		-44.83	-0.80	-9.78e-04	0.0	148.8	-0.37	-5.14	0.48	-18.54	-0.10	0.08
						297.5	-0.37	-55.24	0.48	-18.54	0.59	-44.83
2	50	117.46	1.02	-7.25e-04	-100.20	0.0	6.82	-43.64	-0.58	13.83	1.02	117.46
		-161.46	-0.73	5.02e-04	0.0	148.8	6.82	-93.74	-0.58	13.83	0.15	15.27
						297.5	6.82	-143.84	-0.58	13.83	-0.73	-161.46
2	51	42.00	0.74	2.90e-04	-100.20	0.0	-5.34	111.11	0.61	-22.87	-1.10	-139.53
		-139.53	-1.10	-5.01e-04	0.0	148.8	-5.34	61.01	0.61	-22.87	-0.18	-11.50
						297.5	-5.34	10.91	0.61	-22.87	0.74	42.00
2	52	14.90	0.72	-3.56e-04	-100.20	0.0	1.86	22.51	-0.45	9.50	0.72	7.47
		-74.62	-0.58	9.79e-04	0.0	148.8	1.86	-27.59	-0.45	9.50	0.07	3.70
						297.5	1.86	-77.69	-0.45	9.50	-0.58	-74.62
2	53	-0.97	0.54	-1.63e-04	-100.20	0.0	-2.02	50.40	0.40	-19.44	-0.65	-38.68
		-38.68	-0.65	-5.77e-04	0.0	148.8	-2.02	0.30	0.40	-19.44	-0.06	-0.97
						297.5	-2.02	-49.81	0.40	-19.44	0.54	-37.80
2	54	108.32	1.17	-6.80e-04	-100.20	0.0	5.18	-38.20	-0.66	12.93	1.17	108.32
		-154.42	-0.79	9.03e-04	0.0	148.8	5.18	-88.30	-0.66	12.93	0.19	14.22
						297.5	5.18	-138.40	-0.66	12.93	-0.79	-154.42
2	55	34.97	0.80	2.58e-04	-100.20	0.0	-3.69	105.68	0.69	-21.98	-1.25	-130.40
		-130.40	-1.25	-9.01e-04	0.0	148.8	-3.69	55.58	0.69	-21.98	-0.23	-10.45
						297.5	-3.69	5.48	0.69	-21.98	0.80	34.97
2	56	20.89	0.57	-4.01e-04	-100.20	0.0	3.50	17.08	-0.37	10.39	0.57	16.61
		-81.65	-0.52	5.79e-04	0.0	148.8	3.50	-33.02	-0.37	10.39	0.03	4.75
						297.5	3.50	-83.12	-0.37	10.39	-0.52	-81.65
2	57	6.48	-0.55	-2.46e-04	-100.20	0.0	6.18	32.68	0.35	-21.99	-0.60	-9.35
		-61.19	-0.60	-1.02e-03	0.0	148.8	6.18	-17.42	0.35	-21.99	-0.58	2.00
						297.5	6.18	-67.52	0.35	-21.99	-0.55	-61.19
2	58	97.26	0.82	-6.87e-04	-100.20	0.0	0.28	-31.35	-0.45	17.28	0.82	97.26
		-145.10	0.42	5.41e-04	0.0	148.8	0.28	-81.45	-0.45	17.28	0.62	13.35
						297.5	0.28	-131.55	-0.45	17.28	0.42	-145.10
2	59	25.65	-0.40	2.42e-04	-100.20	0.0	1.21	98.83	0.48	-26.32	-0.90	-119.33
		-119.33	-0.90	-5.39e-04	0.0	148.8	1.21	48.72	0.48	-26.32	-0.65	-9.57
						297.5	1.21	-1.38	0.48	-26.32	-0.40	25.65
2	60	5.14	0.57	-3.18e-04	-100.20	0.0	-4.69	34.79	-0.32	12.94	0.52	-12.72
		-58.27	0.52	1.02e-03	0.0	148.8	-4.69	-15.31	-0.32	12.94	0.54	1.77
						297.5	-4.69	-65.41	-0.32	12.94	0.57	-58.27
2	61	3.08	-0.45	-2.01e-04	-100.20	0.0	4.53	38.11	0.27	-22.88	-0.45	-18.48
		-54.15	-0.61	-6.16e-04	0.0	148.8	4.53	-11.99	0.27	-22.88	-0.53	0.95
						297.5	4.53	-62.09	0.27	-22.88	-0.61	-54.15
2	62	88.13	0.97	-6.42e-04	-100.20	0.0	-1.37	-25.92	-0.53	16.38	0.97	88.13
		-138.07	0.36	9.41e-04	0.0	148.8	-1.37	-76.02	-0.53	16.38	0.66	12.29
						297.5	-1.37	-126.12	-0.53	16.38	0.36	-138.07
2	63	19.31	-0.35	2.10e-04	-100.20	0.0	2.86	93.39	0.56	-25.42	-1.05	-110.20
		-110.20	-1.05	-9.40e-04	0.0	148.8	2.86	43.29	0.56	-25.42	-0.70	-8.52
						297.5	2.86	-6.81	0.56	-25.42	-0.35	18.62
2	64	9.15	0.63	-3.64e-04	-100.20	0.0	-3.04	29.36	-0.24	13.84	0.37	-3.59
		-65.30	0.37	6.17e-04	0.0	148.8	-3.04	-20.74	-0.24	13.84	0.50	2.82
						297.5	-3.04	-70.84	-0.24	13.84	0.63	-65.30
2	65	106.56	0.31	-6.65e-04	-100.20	0.0	9.52	-36.98	-0.12	-2.21	0.31	106.56
		-152.54	-0.14	-1.11e-03	0.0	148.8	9.52	-87.08	-0.12	-2.21	0.09	14.28
						297.5	9.52	-137.18	-0.12	-2.21	-0.14	-152.54
2	66	153.43	0.92	-8.29e-04	-100.20	0.0	11.69	-65.24	-0.47	8.12	0.92	153.43
		-189.75	-0.58	-7.30e-04	0.0	148.8	11.69	-115.34	-0.47	8.12	0.17	19.11
						297.5	11.69	-165.44	-0.47	8.12	-0.58	-189.75
2	67	70.29	0.59	3.90e-04	-100.20	0.0	-10.21	132.71	0.50	-17.17	-1.00	-175.51
		-175.51	-1.00	7.31e-04	0.0	148.8	-10.21	82.61	0.50	-17.17	-0.21	-15.34
						297.5	-10.21	32.51	0.50	-17.17	0.59	70.29
2	68	33.09	0.15	2.52e-04	-100.20	0.0	-8.04	104.45	0.15	-6.84	-0.39	-128.63
		-128.63	-0.39	1.11e-03	0.0	148.8	-8.04	54.35	0.15	-6.84	-0.12	-10.51
						297.5	-8.04	4.25	0.15	-6.84	0.15	33.09
2	69	112.11	0.38	-6.73e-04	-100.20	0.0	11.47	-40.37	-0.16	-3.60	0.38	112.11
		-157.06	-0.52	-1.18e-03	0.0	148.8	11.47	-90.47	-0.16	-3.60	-0.07	14.79
						297.5	11.47	-140.57	-0.16	-3.60	-0.52	-157.06



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
2	70	147.88	0.86	-8.21e-04	-100.20	0.0	9.74	-61.85	-0.43	9.52	0.86	147.88
		-185.23	-0.19	-6.67e-04	0.0	148.8	9.74	-111.95	-0.43	9.52	0.33	18.60
						297.5	9.74	-162.05	-0.43	9.52	-0.19	-185.23
2	71	65.77	0.21	3.78e-04	-100.20	0.0	-8.26	129.32	0.46	-18.56	-0.94	-169.96
		-169.96	-0.94	6.69e-04	0.0	148.8	-8.26	79.22	0.46	-18.56	-0.37	-14.82
						297.5	-8.26	29.12	0.46	-18.56	0.21	65.77
2	72	37.61	0.54	2.64e-04	-100.20	0.0	-9.98	107.84	0.19	-5.44	-0.46	-134.19
		-134.19	-0.46	1.18e-03	0.0	148.8	-9.98	57.74	0.19	-5.44	0.04	-11.02
						297.5	-9.98	7.64	0.19	-5.44	0.54	37.61
2	73	139.00	0.78	-7.27e-04	-100.20	0.0	2.45	-56.69	-0.35	-4.92	0.78	139.00
		-178.76	-0.27	4.28e-04	0.0	148.8	2.45	-106.79	-0.35	-4.92	0.26	17.39
						297.5	2.45	-156.89	-0.35	-4.92	-0.27	-178.76
2	74	185.87	1.39	-8.90e-04	-100.20	0.0	4.62	-84.95	-0.70	5.41	1.39	185.87
		-215.97	-0.71	8.11e-04	0.0	148.8	4.62	-135.05	-0.70	5.41	0.34	22.22
						297.5	4.62	-185.15	-0.70	5.41	-0.71	-215.97
2	75	96.52	0.73	4.68e-04	-100.20	0.0	-3.14	152.42	0.73	-14.46	-1.47	-207.95
		-207.95	-1.47	-8.10e-04	0.0	148.8	-3.14	102.32	0.73	-14.46	-0.37	-18.45
						297.5	-3.14	52.22	0.73	-14.46	0.73	96.52
2	76	59.31	0.28	3.30e-04	-100.20	0.0	-0.97	124.17	0.38	-4.13	-0.86	-161.07
		-161.07	-0.86	-4.26e-04	0.0	148.8	-0.97	74.07	0.38	-4.13	-0.29	-13.61
						297.5	-0.97	23.97	0.38	-4.13	0.28	59.31
2	77	144.55	0.85	-7.35e-04	-100.20	0.0	4.40	-60.08	-0.39	-6.31	0.85	144.55
		-183.29	-0.65	3.65e-04	0.0	148.8	4.40	-110.18	-0.39	-6.31	0.10	17.90
						297.5	4.40	-160.28	-0.39	-6.31	-0.65	-183.29
2	78	180.32	1.33	-8.82e-04	-100.20	0.0	2.67	-81.57	-0.66	6.81	1.33	180.32
		-211.45	-0.33	8.73e-04	0.0	148.8	2.67	-131.67	-0.66	6.81	0.50	21.70
						297.5	2.67	-181.77	-0.66	6.81	-0.33	-211.45
2	79	91.99	0.34	4.56e-04	-100.20	0.0	-1.19	149.04	0.69	-15.85	-1.41	-202.39
		-202.39	-1.41	-8.72e-04	0.0	148.8	-1.19	98.94	0.69	-15.85	-0.53	-17.93
						297.5	-1.19	48.84	0.69	-15.85	0.34	91.99
2	80	63.83	0.67	3.42e-04	-100.20	0.0	-2.92	127.55	0.42	-2.73	-0.93	-166.63
		-166.63	-0.93	-3.64e-04	0.0	148.8	-2.92	77.45	0.42	-2.73	-0.13	-14.13
						297.5	-2.92	27.35	0.42	-2.73	0.67	63.83
2	81	-1.33	0.63	-1.49e-04	-100.20	0.0	0.09	55.38	0.51	-19.49	-0.86	-46.85
		-46.85	-0.86	-9.15e-04	0.0	148.8	0.09	5.28	0.51	-19.49	-0.11	-1.73
						297.5	0.09	-44.82	0.51	-19.49	0.63	-31.14
2	82	109.40	1.17	-6.94e-04	-100.20	0.0	7.32	-38.81	-0.66	14.94	1.17	109.40
		-155.17	-0.84	3.63e-04	0.0	148.8	7.32	-88.91	-0.66	14.94	0.17	14.38
						297.5	7.32	-139.01	-0.66	14.94	-0.84	-155.17
2	83	35.71	0.85	2.65e-04	-100.20	0.0	-5.83	106.29	0.70	-23.98	-1.25	-131.47
		-131.47	-1.25	-3.62e-04	0.0	148.8	-5.83	56.19	0.70	-23.98	-0.20	-10.61
						297.5	-5.83	6.09	0.70	-23.98	0.85	35.71
2	84	26.94	0.78	-4.15e-04	-100.20	0.0	1.40	12.09	-0.48	10.45	0.78	24.77
		-88.32	-0.62	9.17e-04	0.0	148.8	1.40	-38.01	-0.48	10.45	0.08	5.50
						297.5	1.40	-88.11	-0.48	10.45	-0.62	-88.32
2	85	-0.79	0.59	-1.68e-04	-100.20	0.0	-2.03	49.46	0.44	-20.30	-0.72	-37.12
		-39.01	-0.72	-4.53e-04	0.0	148.8	-2.03	-0.64	0.44	-20.30	-0.06	-0.79
						297.5	-2.03	-50.74	0.44	-20.30	0.59	-39.01
2	86	119.13	1.31	-7.13e-04	-100.20	0.0	5.20	-44.73	-0.73	14.12	1.31	119.13
		-163.03	-0.88	8.26e-04	0.0	148.8	5.20	-94.83	-0.73	14.12	0.22	15.31
						297.5	5.20	-144.93	-0.73	14.12	-0.88	-163.03
2	87	43.58	0.89	2.88e-04	-100.20	0.0	-3.71	112.20	0.77	-23.17	-1.39	-141.20
		-141.20	-1.39	-8.24e-04	0.0	148.8	-3.71	62.10	0.77	-23.17	-0.25	-11.54
						297.5	-3.71	12.00	0.77	-23.17	0.89	43.58
2	88	19.85	0.64	-3.97e-04	-100.20	0.0	3.52	18.01	-0.41	11.26	0.64	15.04
		-80.45	-0.58	4.54e-04	0.0	148.8	3.52	-32.09	-0.41	11.26	0.03	4.57
						297.5	3.52	-82.19	-0.41	11.26	-0.58	-80.45
2	89	0.53	-0.64	-1.76e-04	-100.20	0.0	6.58	44.09	0.37	-24.14	-0.64	-28.34
		-46.22	-0.65	-1.12e-03	0.0	148.8	6.58	-6.01	0.37	-24.14	-0.64	-9.75e-03
						297.5	6.58	-56.11	0.37	-24.14	-0.65	-46.22
2	90	90.89	0.96	-6.67e-04	-100.20	0.0	0.82	-27.52	-0.52	19.58	0.96	90.89
		-140.09	0.44	5.71e-04	0.0	148.8	0.82	-77.62	-0.52	19.58	0.70	12.67
						297.5	0.82	-127.72	-0.52	19.58	0.44	-140.09
2	91	21.02	-0.43	2.23e-04	-100.20	0.0	0.67	95.00	0.56	-28.63	-1.04	-112.96
		-112.96	-1.04	-5.70e-04	0.0	148.8	0.67	44.90	0.56	-28.63	-0.73	-8.89
						297.5	0.67	-5.20	0.56	-28.63	-0.43	20.63
2	92	14.34	0.66	-3.88e-04	-100.20	0.0	-5.10	23.38	-0.34	15.10	0.56	6.26
		-73.24	0.56	1.12e-03	0.0	148.8	-5.10	-26.72	-0.34	15.10	0.61	3.78
						297.5	-5.10	-76.82	-0.34	15.10	0.66	-73.24
2	93	3.03	-0.50	-1.94e-04	-100.20	0.0	4.46	38.18	0.30	-24.95	-0.50	-18.61
		-54.08	-0.69	-6.61e-04	0.0	148.8	4.46	-11.92	0.30	-24.95	-0.59	0.92
						297.5	4.46	-62.02	0.30	-24.95	-0.69	-54.08
2	94	100.62	1.10	-6.86e-04	-100.20	0.0	-1.30	-33.44	-0.60	18.77	1.10	100.62
		-147.95	0.40	1.03e-03	0.0	148.8	-1.30	-83.54	-0.60	18.77	0.75	13.60

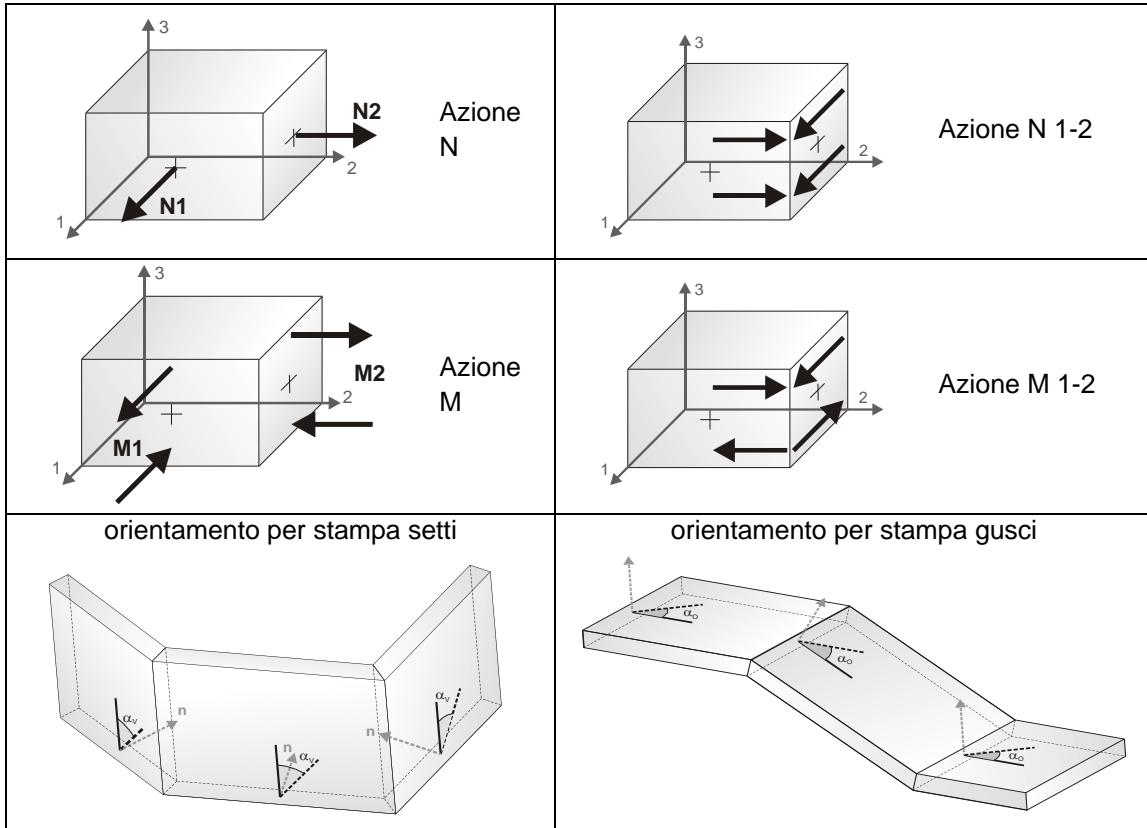
Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
						297.5	-1.30	-133.64	-0.60	18.77	0.40	-147.95
2	95	28.50	-0.39	2.47e-04	-100.20	0.0	2.79	100.91	0.63	-27.81	-1.18	-122.69
		-122.69	-1.18	-1.03e-03	0.0	148.8	2.79	50.81	0.63	-27.81	-0.78	-9.83
						297.5	2.79	0.71	0.63	-27.81	-0.39	28.50
2	96	9.22	0.70	-3.70e-04	-100.20	0.0	-2.98	29.30	-0.27	15.91	0.42	-3.47
		-65.37	0.42	6.62e-04	0.0	148.8	-2.98	-20.80	-0.27	15.91	0.56	2.85
						297.5	-2.98	-70.90	-0.27	15.91	0.70	-65.37
3	1	7.08	0.01	-7.93e-04	-99.89	0.0	0.34	42.35	-6.90e-03	2.02	0.01	-19.61
		-42.20	-6.68e-03	3.39e-06	0.0	148.8	0.34	-7.59	-6.90e-03	2.02	3.58e-03	6.25
						297.5	0.34	-57.54	-6.90e-03	2.02	-6.68e-03	-42.20
3	2	8.34	0.01	-8.88e-04	-123.26	0.0	0.37	50.12	-6.13e-03	2.03	0.01	-21.81
		-56.04	-5.78e-03	4.10e-06	0.0	148.8	0.37	-11.50	-6.13e-03	2.03	3.33e-03	6.92
						297.5	0.37	-73.13	-6.13e-03	2.03	-5.78e-03	-56.04
3	3	9.84	9.39e-03	-6.00e-04	-141.54	0.0	0.22	49.34	-3.53e-03	2.98	9.39e-03	-15.60
		-79.37	-1.12e-03	1.74e-06	0.0	148.8	0.22	-21.43	-3.53e-03	2.98	4.13e-03	5.16
						297.5	0.22	-92.21	-3.53e-03	2.98	-1.12e-03	-79.37
3	4	9.83	9.63e-03	-6.14e-04	-141.54	0.0	0.23	49.63	-3.66e-03	2.97	9.63e-03	-15.93
...												
284	96	50.20	-3.60	2.51e-04	0.0	179.7	2.89	17.47	3.13	1.99	2.83	104.86
<b>Trave</b>		<b>M3 mx/mn</b>	<b>M2 mx/mn</b>	<b>D 2 / D 3</b>	<b>Q 2 / Q 3</b>		<b>N</b>	<b>V 2</b>	<b>V 3</b>	<b>T</b>		
		-373.73	-42.93	-0.02	-676.57		-321.53	-353.90	-51.68	-42.35		
		334.33	43.43	0.02	0.0		422.20	345.63	51.78	42.26		

## RISULTATI ELEMENTI TIPO SHELL

### LEGENDA RISULTATI ELEMENTI TIPO SHELL

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

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



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

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

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  $\alpha_o$  attorno all'asse Z per i gusci e ruotata di  $\alpha_v$  attorno alla normale (che per definizione è orizzontale) al piano del setto.

Per i setti, in particolare, se  $\alpha_v$  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:

<b>N memb.</b>	Azione membranale complessiva agente sulla parete in direzione Z
<b>V memb.</b>	Azione complessiva di taglio agente nel piano del macroelemento
<b>V orto</b>	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
<b>M memb.</b>	Azione flessionale complessiva agente nel piano del macroelemento
<b>M orto</b>	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
<b>T</b>	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	kN	kN	kN	kN m	kN m	kN m
1	1		-180.00	-2830.10	-2.64	-326.66	-120.10	246.32	-0.79
1	1		-145.00	-2806.88	-5.68	-326.66	-212.13	118.72	-2.38
1	1		-95.00	-2648.03	-3.40	-213.38	-412.49	14.90	-6.03
1	1		-45.00	-2390.02	-5.97	-82.28	-778.82	-20.62	-9.18
1	1		5.00	-1512.68	17.14	4.26	-2727.09	-10.47	-5.22
1	1		43.75	-498.92	32.50	0.74	325.84	-5.70	-2.73
1	1		82.50	-439.86	26.82	0.55	302.73	-5.16	-3.87
1	1		121.25	-354.80	0.15	1.70	242.30	-5.02	-3.17
1	1		160.00	-289.27	-49.84	4.65	184.93	-2.23	-0.62
1	2		-180.00	-3058.91	-2.84	-326.58	-132.37	246.28	-0.79
1	2		-145.00	-3034.09	-6.15	-326.58	-230.82	118.69	-2.38
1	2		-95.00	-2870.98	-3.74	-213.34	-443.72	14.88	-6.03
1	2		-45.00	-2601.20	-6.21	-82.30	-832.01	-20.66	-9.23
1	2		5.00	-1650.29	19.47	4.28	-2943.00	-10.51	-5.29
1	2		43.75	-542.08	37.92	0.63	363.73	-5.74	-2.73
1	2		82.50	-478.24	31.37	0.39	337.45	-5.26	-3.85
1	2		121.25	-385.82	0.70	1.61	269.49	-5.18	-3.09
1	2		160.00	-318.02	-57.55	4.74	206.27	-2.33	-0.44
1	3		-180.00	-3301.12	-5.00	-478.07	-80.06	369.49	-1.24
1	3		-145.00	-3273.93	-8.62	-478.07	-192.38	183.61	-3.61
1	3		-95.00	-3074.75	-5.73	-318.01	-443.13	28.39	-8.92
1	3		-45.00	-2758.48	-8.57	-128.56	-905.36	-28.27	-13.42
1	3		5.00	-1740.39	22.42	2.27	-3211.80	-15.59	-7.36
1	3		43.75	-580.28	39.32	1.71	351.72	-8.33	-3.85
1	3		82.50	-509.31	32.35	1.82	322.79	-7.13	-5.70
1	3		121.25	-408.77	-1.01	3.02	251.57	-6.51	-5.09
1	3		160.00	-340.11	-66.59	6.36	192.44	-2.74	-1.86
1	4		-180.00	-3325.03	-4.87	-478.07	-81.30	369.49	-1.24
1	4		-145.00	-3297.65	-8.52	-478.07	-194.25	183.61	-3.60
1	4		-95.00	-3097.99	-5.61	-318.01	-446.15	28.39	-8.91
1	4		-45.00	-2780.48	-8.47	-128.56	-910.40	-28.27	-13.41
1	4		5.00	-1754.70	22.57	2.27	-3233.36	-15.60	-7.36
1	4		43.75	-584.74	39.63	1.70	355.75	-8.34	-3.86
1	4		82.50	-513.35	32.63	1.80	326.69	-7.15	-5.70
1	4		121.25	-412.13	-0.91	3.01	254.96	-6.53	-5.08
1	4		160.00	-342.63	-66.70	6.37	195.02	-2.75	-1.83
1	5		-180.00	-3873.15	-5.51	-477.87	-110.73	369.38	-1.24
1	5		-145.00	-3841.97	-9.79	-477.87	-239.10	183.54	-3.60
1	5		-95.00	-3632.13	-6.58	-317.92	-521.19	28.33	-8.94
1	5		-45.00	-3286.43	-9.19	-128.61	-1038.33	-28.36	-13.54
1	5		5.00	-2084.43	28.25	2.31	-3751.59	-15.69	-7.53
1	5		43.75	-688.19	52.86	1.44	446.45	-8.43	-3.86
1	5		82.50	-605.26	43.72	1.43	409.61	-7.37	-5.66
1	5		121.25	-486.32	0.35	2.80	319.55	-6.90	-4.87
1	5		160.00	-411.97	-85.87	6.57	245.77	-2.98	-1.41
1	6		-180.00	-3897.06	-5.38	-477.86	-111.97	369.39	-1.24

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	6	-145.00	-3865.69	-9.68	-477.86	-240.97	183.55	-3.59	
1	6	-95.00	-3655.38	-6.46	-317.92	-524.22	28.33	-8.93	
1	6	-45.00	-3308.43	-9.09	-128.61	-1043.36	-28.37	-13.53	
1	6	5.00	-2098.74	28.40	2.31	-3773.14	-15.70	-7.53	
1	6	43.75	-692.64	53.17	1.42	450.47	-8.44	-3.86	
1	6	82.50	-609.30	43.99	1.41	413.51	-7.39	-5.66	
1	6	121.25	-489.67	0.45	2.79	322.93	-6.93	-4.86	
1	6	160.00	-414.50	-85.99	6.58	248.35	-2.99	-1.38	
1	7	-180.00	-2179.42	-4.49	-419.99	-148.91	336.35	-0.09	
1	7	-145.00	-2161.48	-6.67	-419.99	-221.59	173.75	-0.64	
1	7	-95.00	-2016.21	-4.60	-285.18	-382.75	33.68	-2.68	
1	7	-45.00	-1793.21	-6.20	-122.08	-676.43	-21.79	-5.55	
1	7	5.00	-1124.11	13.32	-2.85	-2139.71	-14.26	-3.89	
1	7	43.75	-376.18	24.07	2.13	223.04	-7.01	-3.30	
1	7	82.50	-329.01	19.81	2.60	204.80	-5.55	-5.03	
1	7	121.25	-263.07	-0.96	3.13	159.81	-4.56	-4.87	
1	7	160.00	-216.60	-41.65	4.91	122.03	-1.68	-2.57	
1	8	-180.00	-2203.33	-4.36	-419.99	-150.15	336.36	-0.08	
1	8	-145.00	-2185.20	-6.57	-419.99	-223.46	173.75	-0.63	
1	8	-95.00	-2039.46	-4.48	-285.18	-385.78	33.68	-2.67	
1	8	-45.00	-1815.21	-6.11	-122.09	-681.46	-21.80	-5.54	
1	8	5.00	-1138.43	13.47	-2.85	-2161.26	-14.27	-3.89	
1	8	43.75	-380.63	24.39	2.12	227.06	-7.02	-3.30	
1	8	82.50	-333.05	20.08	2.58	208.69	-5.57	-5.03	
1	8	121.25	-266.43	-0.86	3.12	163.19	-4.59	-4.86	
1	8	160.00	-219.13	-41.76	4.93	124.61	-1.69	-2.55	
1	9	-180.00	-2751.45	-5.00	-419.79	-179.58	336.25	-0.08	
1	9	-145.00	-2729.53	-7.84	-419.79	-268.31	173.69	-0.63	
1	9	-95.00	-2573.60	-5.45	-285.09	-460.82	33.62	-2.70	
1	9	-45.00	-2321.16	-6.82	-122.13	-809.39	-21.89	-5.67	
1	9	5.00	-1468.15	19.15	-2.81	-2679.49	-14.35	-4.07	
1	9	43.75	-484.08	37.62	1.86	317.76	-7.11	-3.31	
1	9	82.50	-424.97	31.17	2.20	291.61	-5.79	-4.99	
1	9	121.25	-340.61	0.40	2.90	227.78	-4.96	-4.65	
1	9	160.00	-288.47	-60.93	5.12	175.37	-1.92	-2.12	
1	10	-180.00	-2775.36	-4.87	-419.78	-180.82	336.25	-0.08	
1	10	-145.00	-2753.25	-7.74	-419.78	-270.18	173.69	-0.62	
1	10	-95.00	-2596.84	-5.33	-285.10	-463.85	33.62	-2.69	
1	10	-45.00	-2343.15	-6.73	-122.14	-814.43	-21.90	-5.66	
1	10	5.00	-1482.46	19.30	-2.81	-2701.05	-14.36	-4.07	
1	10	43.75	-488.53	37.93	1.84	321.78	-7.12	-3.31	
1	10	82.50	-429.00	31.45	2.18	295.51	-5.80	-4.99	
1	10	121.25	-343.97	0.50	2.89	231.16	-4.98	-4.64	
1	10	160.00	-291.00	-61.05	5.14	177.94	-1.93	-2.10	
1	11	-180.00	-3348.94	-4.74	-478.07	-82.54	369.49	-1.24	
1	11	-145.00	-3321.37	-8.41	-478.07	-196.12	183.61	-3.60	
1	11	-95.00	-3121.24	-5.49	-318.01	-449.18	28.39	-8.90	
1	11	-45.00	-2802.47	-8.38	-128.57	-915.44	-28.28	-13.39	
1	11	5.00	-1769.01	22.72	2.27	-3254.91	-15.61	-7.36	
1	11	43.75	-589.19	39.94	1.68	359.77	-8.35	-3.86	
1	11	82.50	-517.39	32.90	1.78	330.59	-7.17	-5.70	
1	11	121.25	-415.49	-0.81	3.00	258.34	-6.56	-5.07	
1	11	160.00	-345.16	-66.82	6.39	197.60	-2.77	-1.81	
1	12	-180.00	-3701.54	-5.35	-477.93	-101.53	369.41	-1.24	
1	12	-145.00	-3671.56	-9.44	-477.93	-225.08	183.56	-3.60	
1	12	-95.00	-3464.92	-6.33	-317.95	-497.77	28.35	-8.94	
1	12	-45.00	-3128.04	-9.00	-128.59	-998.44	-28.33	-13.50	
1	12	5.00	-1981.22	26.50	2.30	-3589.65	-15.66	-7.48	
1	12	43.75	-655.82	48.80	1.52	418.03	-8.40	-3.86	
1	12	82.50	-576.48	40.31	1.55	383.57	-7.30	-5.67	
1	12	121.25	-463.05	-0.06	2.87	299.16	-6.79	-4.94	
1	12	160.00	-390.41	-80.08	6.50	229.77	-2.91	-1.54	
1	13	-180.00	-3749.36	-5.10	-477.92	-104.01	369.42	-1.23	
1	13	-145.00	-3719.00	-9.23	-477.92	-228.82	183.57	-3.59	
1	13	-95.00	-3511.41	-6.09	-317.95	-503.83	28.35	-8.91	
1	13	-45.00	-3172.04	-8.81	-128.61	-1008.51	-28.35	-13.48	
1	13	5.00	-2009.84	26.80	2.29	-3632.76	-15.68	-7.48	
1	13	43.75	-664.72	49.42	1.49	426.08	-8.42	-3.86	
1	13	82.50	-584.55	40.85	1.50	391.36	-7.33	-5.67	
1	13	121.25	-469.77	0.14	2.85	305.92	-6.84	-4.92	
1	13	160.00	-395.47	-80.32	6.54	234.93	-2.94	-1.49	
1	14	-180.00	-2227.24	-4.23	-419.99	-151.38	336.36	-0.08	
1	14	-145.00	-2208.92	-6.46	-419.99	-225.33	173.76	-0.62	
1	14	-95.00	-2062.70	-4.36	-285.18	-388.81	33.68	-2.66	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	14	-45.00	-1837.20	-6.01	-122.09	-686.50	-21.81	-5.53	
1	14	5.00	-1152.74	13.62	-2.85	-2182.82	-14.28	-3.89	
1	14	43.75	-385.08	24.70	2.10	231.08	-7.03	-3.31	
1	14	82.50	-337.09	20.36	2.55	212.59	-5.59	-5.03	
1	14	121.25	-269.78	-0.76	3.11	166.57	-4.61	-4.85	
1	14	160.00	-221.66	-41.88	4.95	127.19	-1.71	-2.52	
1	15	-180.00	-2579.84	-4.84	-419.85	-170.38	336.28	-0.08	
1	15	-145.00	-2559.11	-7.49	-419.85	-254.29	173.71	-0.63	
1	15	-95.00	-2406.38	-5.20	-285.12	-437.40	33.64	-2.70	
1	15	-45.00	-2162.77	-6.63	-122.12	-769.50	-21.86	-5.63	
1	15	5.00	-1364.94	17.40	-2.82	-2517.56	-14.33	-4.02	
1	15	43.75	-451.71	33.55	1.94	289.34	-7.08	-3.30	
1	15	82.50	-396.18	27.76	2.32	265.57	-5.72	-5.00	
1	15	121.25	-317.35	-0.01	2.97	207.39	-4.84	-4.72	
1	15	160.00	-266.91	-55.14	5.06	159.37	-1.84	-2.26	
1	16	-180.00	-2627.66	-4.59	-419.84	-172.85	336.29	-0.08	
1	16	-145.00	-2606.56	-7.28	-419.84	-258.03	173.71	-0.62	
1	16	-95.00	-2452.87	-4.96	-285.12	-443.45	33.64	-2.68	
1	16	-45.00	-2206.77	-6.45	-122.13	-779.58	-21.88	-5.61	
1	16	5.00	-1393.56	17.70	-2.83	-2560.67	-14.34	-4.02	
1	16	43.75	-460.61	34.18	1.91	297.39	-7.10	-3.31	
1	16	82.50	-404.25	28.31	2.28	273.36	-5.75	-5.00	
1	16	121.25	-324.06	0.19	2.95	214.15	-4.89	-4.70	
1	16	160.00	-271.96	-55.38	5.09	164.52	-1.87	-2.21	
1	17	-180.00	-3971.94	-3.91	-477.62	-108.91	368.41	-1.19	
1	17	-145.00	-3939.39	-8.31	-477.62	-239.16	182.65	-3.50	
1	17	-95.00	-3726.69	-5.11	-317.66	-523.11	27.54	-8.78	
1	17	-45.00	-3375.19	-8.72	-128.25	-1042.78	-29.03	-13.38	
1	17	5.00	-2141.38	24.20	2.99	-3812.98	-16.02	-7.61	
1	17	43.75	-704.96	46.28	1.26	465.63	-8.62	-4.08	
1	17	82.50	-622.42	38.20	1.21	432.75	-7.64	-5.87	
1	17	121.25	-502.85	0.22	2.76	346.65	-7.26	-4.98	
1	17	160.00	-410.98	-70.93	6.86	264.66	-3.17	-1.32	
1	18	-180.00	-3995.85	-3.78	-477.62	-110.15	368.42	-1.19	
1	18	-145.00	-3963.11	-8.20	-477.62	-241.03	182.65	-3.49	
1	18	-95.00	-3749.93	-4.99	-317.66	-526.14	27.54	-8.77	
1	18	-45.00	-3397.18	-8.63	-128.26	-1047.81	-29.03	-13.37	
1	18	5.00	-2155.69	24.35	2.99	-3834.54	-16.02	-7.61	
1	18	43.75	-709.41	46.59	1.24	469.65	-8.63	-4.08	
1	18	82.50	-626.46	38.47	1.18	436.65	-7.65	-5.87	
1	18	121.25	-506.21	0.33	2.75	350.04	-7.28	-4.97	
1	18	160.00	-413.51	-71.04	6.88	267.23	-3.18	-1.30	
1	19	-180.00	-4372.36	-4.27	-477.48	-130.38	368.34	-1.19	
1	19	-145.00	-4337.02	-9.12	-477.48	-271.86	182.60	-3.49	
1	19	-95.00	-4116.85	-5.71	-317.60	-577.75	27.50	-8.79	
1	19	-45.00	-3744.75	-9.16	-128.28	-1135.85	-29.10	-13.47	
1	19	5.00	-2382.21	28.28	3.02	-4190.83	-16.08	-7.74	
1	19	43.75	-780.49	55.76	1.07	531.93	-8.68	-4.08	
1	19	82.50	-689.59	46.16	0.93	493.52	-7.80	-5.84	
1	19	121.25	-557.14	1.17	2.60	394.23	-7.53	-4.82	
1	19	160.00	-461.28	-84.42	7.01	301.99	-3.33	-1.01	
1	20	-180.00	-4396.27	-4.14	-477.48	-131.62	368.34	-1.19	
1	20	-145.00	-4360.74	-9.02	-477.48	-273.73	182.60	-3.49	
1	20	-95.00	-4140.10	-5.59	-317.60	-580.78	27.50	-8.78	
1	20	-45.00	-3766.75	-9.06	-128.29	-1140.89	-29.10	-13.46	
1	20	5.00	-2396.52	28.43	3.02	-4212.39	-16.09	-7.74	
1	20	43.75	-784.94	56.07	1.05	535.96	-8.69	-4.08	
1	20	82.50	-693.63	46.43	0.91	497.42	-7.82	-5.84	
1	20	121.25	-560.49	1.28	2.59	397.62	-7.56	-4.81	
1	20	160.00	-463.81	-84.54	7.03	304.57	-3.35	-0.99	
1	21	-180.00	-2850.23	-3.40	-419.54	-177.75	335.28	-0.04	
1	21	-145.00	-2826.94	-6.36	-419.54	-268.37	172.79	-0.53	
1	21	-95.00	-2668.15	-3.98	-284.83	-462.73	32.82	-2.54	
1	21	-45.00	-2409.92	-6.36	-121.77	-813.84	-22.56	-5.51	
1	21	5.00	-1525.10	15.10	-2.13	-2740.89	-14.68	-4.15	
1	21	43.75	-500.86	31.04	1.68	336.94	-7.30	-3.52	
1	21	82.50	-442.13	25.66	1.98	314.75	-6.06	-5.20	
1	21	121.25	-357.15	0.27	2.86	254.88	-5.31	-4.76	
1	21	160.00	-287.47	-45.99	5.42	194.25	-2.10	-2.04	
1	22	-180.00	-2874.14	-3.27	-419.54	-178.99	335.28	-0.03	
1	22	-145.00	-2850.66	-6.25	-419.54	-270.24	172.79	-0.52	
1	22	-95.00	-2691.40	-3.86	-284.84	-465.76	32.82	-2.53	
1	22	-45.00	-2431.91	-6.26	-121.78	-818.88	-22.56	-5.50	
1	22	5.00	-1539.42	15.25	-2.13	-2762.45	-14.69	-4.15	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	22	43.75	-505.31	31.35	1.66	340.96	-7.31	-3.52	
1	22	82.50	-446.16	25.93	1.96	318.65	-6.07	-5.20	
1	22	121.25	-360.51	0.38	2.85	258.27	-5.34	-4.75	
1	22	160.00	-290.00	-46.10	5.43	196.83	-2.12	-2.01	
1	23	-180.00	-3250.65	-3.75	-419.40	-199.22	335.21	-0.03	
1	23	-145.00	-3224.57	-7.18	-419.40	-301.08	172.75	-0.52	
1	23	-95.00	-3058.32	-4.58	-284.77	-517.38	32.78	-2.55	
1	23	-45.00	-2779.48	-6.79	-121.81	-906.91	-22.62	-5.60	
1	23	5.00	-1765.93	19.18	-2.10	-3118.74	-14.75	-4.28	
1	23	43.75	-576.39	40.52	1.49	403.25	-7.37	-3.53	
1	23	82.50	-509.29	33.61	1.70	375.52	-6.22	-5.16	
1	23	121.25	-411.43	1.22	2.71	302.47	-5.59	-4.61	
1	23	160.00	-337.78	-59.48	5.56	231.58	-2.27	-1.72	
1	24	-180.00	-3274.56	-3.63	-419.40	-200.46	335.21	-0.03	
1	24	-145.00	-3248.29	-7.07	-419.40	-302.94	172.75	-0.52	
1	24	-95.00	-3081.57	-4.46	-284.78	-520.41	32.78	-2.54	
1	24	-45.00	-2801.48	-6.70	-121.81	-911.95	-22.63	-5.59	
1	24	5.00	-1780.24	19.33	-2.10	-3140.30	-14.76	-4.28	
1	24	43.75	-580.84	40.83	1.47	407.27	-7.38	-3.53	
1	24	82.50	-513.33	33.89	1.68	379.42	-6.24	-5.17	
1	24	121.25	-414.79	1.33	2.70	305.85	-5.61	-4.60	
1	24	160.00	-340.31	-59.60	5.58	234.16	-2.29	-1.70	
1	25	-180.00	-3301.06	-6.09	-569.36	-78.17	455.52	-0.89	
1	25	-145.00	-3273.90	-9.72	-569.36	-191.01	235.38	-2.74	
1	25	-95.00	-3074.83	-6.71	-387.94	-442.99	44.94	-7.37	
1	25	-45.00	-2758.64	-9.37	-166.63	-906.11	-30.63	-12.04	
1	25	5.00	-1740.52	21.82	-3.53	-3212.44	-19.61	-7.13	
1	25	43.75	-580.36	38.88	2.61	351.71	-9.99	-4.61	
1	25	82.50	-509.37	32.00	3.20	322.74	-8.13	-7.00	
1	25	121.25	-408.81	-1.28	4.17	251.50	-6.93	-6.64	
1	25	160.00	-340.13	-66.75	7.20	192.35	-2.70	-3.22	
1	26	-180.00	-3324.97	-5.96	-569.36	-79.41	455.53	-0.89	
1	26	-145.00	-3297.62	-9.61	-569.36	-192.88	235.38	-2.73	
1	26	-95.00	-3098.08	-6.59	-387.94	-446.02	44.94	-7.36	
1	26	-45.00	-2780.64	-9.28	-166.64	-911.15	-30.64	-12.03	
1	26	5.00	-1754.83	21.97	-3.54	-3233.99	-19.61	-7.13	
1	26	43.75	-584.81	39.20	2.60	355.73	-10.00	-4.62	
1	26	82.50	-513.41	32.28	3.18	326.64	-8.14	-7.00	
1	26	121.25	-412.17	-1.18	4.16	254.89	-6.96	-6.63	
1	26	160.00	-342.66	-66.87	7.21	194.93	-2.71	-3.19	
1	27	-180.00	-3701.48	-6.45	-569.22	-99.64	455.45	-0.88	
1	27	-145.00	-3671.54	-10.53	-569.22	-223.71	235.34	-2.73	
1	27	-95.00	-3465.00	-7.30	-387.88	-497.64	44.91	-7.39	
1	27	-45.00	-3128.21	-9.81	-166.66	-999.18	-30.70	-12.12	
1	27	5.00	-1981.34	25.90	-3.50	-3590.29	-19.67	-7.25	
1	27	43.75	-655.89	48.36	2.42	418.01	-10.06	-4.62	
1	27	82.50	-576.53	39.96	2.93	383.52	-8.29	-6.97	
1	27	121.25	-463.09	-0.33	4.02	299.08	-7.21	-6.49	
1	27	160.00	-390.44	-80.25	7.34	229.68	-2.87	-2.90	
1	28	-180.00	-3725.39	-6.32	-569.21	-100.88	455.46	-0.88	
1	28	-145.00	-3695.26	-10.43	-569.21	-225.58	235.34	-2.72	
1	28	-95.00	-3488.25	-7.18	-387.88	-500.66	44.90	-7.38	
1	28	-45.00	-3150.20	-9.71	-166.67	-1004.22	-30.71	-12.11	
1	28	5.00	-1995.65	26.05	-3.51	-3611.84	-19.68	-7.25	
1	28	43.75	-660.34	48.68	2.41	422.04	-10.07	-4.62	
1	28	82.50	-580.57	40.23	2.90	387.41	-8.31	-6.97	
1	28	121.25	-466.45	-0.23	4.01	302.47	-7.23	-6.48	
1	28	160.00	-392.97	-80.36	7.36	232.26	-2.88	-2.88	
1	29	-180.00	-2179.36	-5.58	-511.28	-147.01	422.39	0.27	
1	29	-145.00	-2161.46	-7.77	-511.28	-220.22	225.52	0.23	
1	29	-95.00	-2016.30	-5.58	-355.11	-382.61	50.23	-1.14	
1	29	-45.00	-1793.37	-7.00	-160.15	-677.17	-24.16	-4.17	
1	29	5.00	-1124.24	12.72	-8.65	-2140.34	-18.27	-3.67	
1	29	43.75	-376.25	23.64	3.03	223.02	-8.68	-4.06	
1	29	82.50	-329.07	19.46	3.98	204.75	-6.54	-6.33	
1	29	121.25	-263.11	-1.23	4.28	159.74	-4.98	-6.43	
1	29	160.00	-216.63	-41.81	5.75	121.94	-1.64	-3.93	
1	30	-180.00	-2203.27	-5.45	-511.28	-148.25	422.39	0.27	
1	30	-145.00	-2185.18	-7.66	-511.28	-222.09	225.53	0.24	
1	30	-95.00	-2039.55	-5.46	-355.11	-385.64	50.23	-1.12	
1	30	-45.00	-1815.37	-6.91	-160.16	-682.21	-24.17	-4.16	
1	30	5.00	-1138.55	12.87	-8.66	-2161.90	-18.28	-3.67	
1	30	43.75	-380.71	23.95	3.02	227.04	-8.69	-4.06	
1	30	82.50	-333.11	19.73	3.95	208.64	-6.56	-6.33	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	30		121.25	-266.47	-1.13	4.27	163.12	-5.01	-6.42
1	30		160.00	-219.16	-41.93	5.77	124.52	-1.65	-3.91
1	31		-180.00	-2579.78	-5.93	-511.14	-168.48	422.32	0.27
1	31		-145.00	-2559.09	-8.59	-511.14	-252.92	225.48	0.24
1	31		-95.00	-2406.47	-6.17	-355.05	-437.26	50.19	-1.15
1	31		-45.00	-2162.93	-7.44	-160.19	-770.25	-24.23	-4.25
1	31		5.00	-1365.07	16.80	-8.63	-2518.19	-18.34	-3.79
1	31		43.75	-451.79	33.12	2.84	289.33	-8.74	-4.07
1	31		82.50	-396.24	27.42	3.70	265.52	-6.71	-6.30
1	31		121.25	-317.39	-0.28	4.12	207.32	-5.26	-6.27
1	31		160.00	-266.94	-55.31	5.90	159.28	-1.80	-3.62
1	32		-180.00	-2603.69	-5.81	-511.13	-169.72	422.32	0.28
1	32		-145.00	-2582.81	-8.48	-511.13	-254.79	225.48	0.25
1	32		-95.00	-2429.71	-6.05	-355.05	-440.29	50.19	-1.14
1	32		-45.00	-2184.93	-7.34	-160.19	-775.28	-24.24	-4.24
1	32		5.00	-1379.38	16.95	-8.63	-2539.75	-18.35	-3.79
1	32		43.75	-456.24	33.43	2.83	293.35	-8.75	-4.07
1	32		82.50	-400.28	27.69	3.68	269.41	-6.73	-6.30
1	32		121.25	-320.75	-0.18	4.11	210.70	-5.29	-6.26
1	32		160.00	-269.46	-55.42	5.91	161.85	-1.82	-3.59
1	33		-180.00	-2324.02	615.91	-334.78	800.42	219.22	-0.33
1	33		-145.00	-2302.77	613.12	-334.78	713.93	90.91	-1.13
1	33		-95.00	-2188.93	660.58	-221.35	441.85	-16.55	-2.04
1	33		-45.00	-2032.06	675.96	-82.18	106.42	-46.99	-2.02
1	33		5.00	-1267.40	765.70	-3.75	-2399.60	-34.29	4.81
1	33		43.75	-451.35	627.25	-16.31	-268.52	-26.05	-3.43
1	33		82.50	-407.11	652.65	-15.23	-174.41	-32.04	-6.68
1	33		121.25	-338.11	624.86	-13.69	-75.37	-37.87	-18.27
1	33		160.00	-313.10	524.17	20.56	-28.69	-34.09	-23.18
1	34		-180.00	-2256.29	520.51	-296.13	1594.50	261.74	-4.19
...									
1	96		160.00	-113.00	-361.77	-16.23	305.88	65.05	81.26
<b>M</b>	<b>S</b>			<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
				-4396.27	-773.11	-569.36	-4212.39	-97.01	-94.42
				-111.94	809.68	77.53	2041.78	455.53	92.83

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	kN	kN	kN	kN m	kN m	kN m
2	1		-180.00	-1122.92	-7.75	-87.17	-779.33	57.16	0.29
2	1		-145.00	-1134.50	-12.70	-87.17	-790.84	22.49	0.66
2	1		-95.00	-1109.71	-9.10	-48.12	-808.28	-0.44	2.50
2	1		-45.00	-1069.86	1.37	-10.85	-836.44	-3.71	5.81
2	1		5.00	-1026.33	11.81	2.61	-885.44	-0.78	9.92
2	1		43.75	-973.93	15.15	2.87	-894.82	-0.08	8.95
2	1		82.50	-902.36	14.26	2.37	-837.10	0.85	6.07
2	1		121.25	-801.48	7.00	-1.71	-724.27	0.86	-0.21
2	1		160.00	-587.41	12.55	-0.91	-521.03	1.71	-8.02
2	2		-180.00	-1191.95	-6.73	-86.32	-854.03	57.15	0.31
2	2		-145.00	-1203.80	-12.09	-86.32	-866.34	22.78	0.70
2	2		-95.00	-1179.20	-8.57	-47.22	-884.93	0.32	2.67
2	2		-45.00	-1139.30	2.00	-10.03	-914.75	-2.50	6.20
2	2		5.00	-1095.76	12.40	2.88	-966.53	0.54	10.65
2	2		43.75	-1042.62	15.76	2.76	-976.04	1.07	9.59
2	2		82.50	-968.46	14.73	2.04	-912.55	1.83	6.34
2	2		121.25	-862.71	6.67	-2.47	-788.97	1.59	-0.67
2	2		160.00	-635.33	12.77	-1.77	-568.27	2.19	-9.33
2	3		-180.00	-1347.60	-16.08	-127.17	-724.38	81.87	0.38
2	3		-145.00	-1363.60	-21.18	-127.17	-733.72	31.49	0.82
2	3		-95.00	-1332.84	-15.61	-72.22	-747.58	-3.22	2.95
2	3		-45.00	-1281.70	-0.57	-18.17	-772.78	-9.51	6.85
2	3		5.00	-1223.65	15.51	4.34	-818.57	-4.64	11.93
2	3		43.75	-1157.27	20.44	5.98	-832.33	-2.52	11.36
2	3		82.50	-1070.88	20.07	5.44	-781.03	-0.41	7.62
2	3		121.25	-951.02	13.23	0.43	-676.06	0.65	-0.75
2	3		160.00	-701.45	20.06	0.45	-478.76	2.73	-11.18
2	4		-180.00	-1355.14	-16.00	-127.15	-730.54	81.93	0.38



M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	4	-145.00	-1371.17	-21.13	-127.15	-739.98	31.55	0.82	
2	4	-95.00	-1340.45	-15.57	-72.20	-754.03	-3.15	2.97	
2	4	-45.00	-1289.32	-0.52	-18.15	-779.56	-9.43	6.88	
2	4	5.00	-1231.27	15.56	4.31	-825.89	-4.58	11.99	
2	4	43.75	-1164.75	20.50	5.96	-839.69	-2.47	11.41	
2	4	82.50	-1078.03	20.13	5.41	-787.85	-0.37	7.67	
2	4	121.25	-957.58	13.25	0.38	-681.87	0.67	-0.70	
2	4	160.00	-706.17	20.20	0.42	-482.93	2.74	-11.14	
2	5	-180.00	-1520.16	-13.53	-125.04	-911.15	81.84	0.41	
2	5	-145.00	-1536.84	-19.66	-125.04	-922.48	32.21	0.91	
2	5	-95.00	-1506.56	-14.29	-69.97	-939.21	-1.33	3.37	
2	5	-45.00	-1455.31	1.00	-16.12	-968.56	-6.49	7.83	
2	5	5.00	-1397.23	16.97	5.01	-1021.29	-1.33	13.77	
2	5	43.75	-1328.99	21.95	5.71	-1035.37	0.34	12.94	
2	5	82.50	-1236.15	21.24	4.61	-969.66	2.04	8.30	
2	5	121.25	-1104.09	12.43	-1.46	-837.82	2.48	-1.91	
2	5	160.00	-821.25	20.61	-1.72	-596.87	3.93	-14.47	
2	6	-180.00	-1527.69	-13.45	-125.02	-917.30	81.89	0.41	
2	6	-145.00	-1544.41	-19.61	-125.02	-928.74	32.27	0.92	
2	6	-95.00	-1514.17	-14.24	-69.95	-945.66	-1.26	3.38	
2	6	-45.00	-1462.92	1.06	-16.11	-975.34	-6.40	7.87	
2	6	5.00	-1404.84	17.02	4.99	-1028.61	-1.27	13.83	
2	6	43.75	-1336.48	22.01	5.68	-1042.73	0.39	12.98	
2	6	82.50	-1243.30	21.30	4.58	-976.48	2.08	8.35	
2	6	121.25	-1110.65	12.44	-1.52	-843.63	2.50	-1.86	
2	6	160.00	-825.97	20.75	-1.75	-601.04	3.93	-14.42	
2	7	-180.00	-914.44	-19.75	-112.05	-509.93	73.50	0.27	
2	7	-145.00	-927.51	-23.89	-112.05	-516.51	29.38	0.50	
2	7	-95.00	-905.32	-19.35	-65.92	-525.77	-2.52	1.76	
2	7	-45.00	-867.45	-6.44	-19.49	-541.35	-10.07	4.05	
2	7	5.00	-823.95	8.29	2.25	-566.83	-6.50	6.98	
2	7	43.75	-774.57	12.64	5.59	-570.19	-3.97	6.52	
2	7	82.50	-712.65	12.47	5.89	-532.59	-1.57	4.12	
2	7	121.25	-628.70	8.01	2.47	-460.38	7.16e-03	-1.12	
2	7	160.00	-458.85	12.56	1.85	-326.99	2.02	-7.46	
2	8	-180.00	-921.97	-19.66	-112.03	-516.09	73.55	0.27	
2	8	-145.00	-935.09	-23.84	-112.03	-522.77	29.44	0.50	
2	8	-95.00	-912.93	-19.31	-65.90	-532.22	-2.45	1.77	
2	8	-45.00	-875.06	-6.38	-19.48	-548.13	-9.98	4.08	
2	8	5.00	-831.57	8.35	2.22	-574.15	-6.43	7.03	
2	8	43.75	-782.05	12.70	5.56	-577.55	-3.92	6.57	
2	8	82.50	-719.80	12.53	5.86	-539.41	-1.53	4.17	
2	8	121.25	-635.26	8.03	2.41	-466.19	0.03	-1.07	
2	8	160.00	-463.57	12.70	1.82	-331.15	2.02	-7.42	
2	9	-180.00	-1087.00	-17.20	-109.92	-696.70	73.47	0.30	
2	9	-145.00	-1100.75	-22.37	-109.92	-705.27	30.10	0.60	
2	9	-95.00	-1079.03	-18.02	-63.67	-717.39	-0.63	2.17	
2	9	-45.00	-1041.05	-4.86	-17.44	-737.13	-7.04	5.03	
2	9	5.00	-997.53	9.75	2.92	-769.55	-3.19	8.82	
2	9	43.75	-946.29	14.15	5.31	-773.23	-1.11	8.10	
2	9	82.50	-877.91	13.64	5.06	-721.22	0.87	4.81	
2	9	121.25	-781.77	7.21	0.57	-622.14	1.84	-2.27	
2	9	160.00	-578.65	13.10	-0.32	-445.09	3.21	-10.75	
2	10	-180.00	-1094.53	-17.11	-109.91	-702.85	73.52	0.30	
2	10	-145.00	-1108.33	-22.31	-109.91	-711.53	30.16	0.60	
2	10	-95.00	-1086.65	-17.98	-63.66	-723.85	-0.55	2.19	
2	10	-45.00	-1048.67	-4.80	-17.43	-743.91	-6.96	5.07	
2	10	5.00	-1005.15	9.80	2.90	-776.87	-3.12	8.87	
2	10	43.75	-953.78	14.22	5.29	-780.60	-1.06	8.15	
2	10	82.50	-885.07	13.70	5.03	-728.04	0.92	4.85	
2	10	121.25	-788.33	7.23	0.51	-627.95	1.86	-2.22	
2	10	160.00	-583.37	13.24	-0.35	-449.26	3.22	-10.71	
2	11	-180.00	-1362.67	-15.91	-127.14	-736.69	81.98	0.38	
2	11	-145.00	-1378.75	-21.08	-127.14	-746.24	31.61	0.82	
2	11	-95.00	-1348.06	-15.52	-72.18	-760.49	-3.08	2.99	
2	11	-45.00	-1296.94	-0.47	-18.14	-786.34	-9.35	6.92	
2	11	5.00	-1238.88	15.62	4.29	-833.21	-4.51	12.04	
2	11	43.75	-1172.24	20.57	5.93	-847.05	-2.42	11.45	
2	11	82.50	-1085.19	20.19	5.38	-794.68	-0.33	7.71	
2	11	121.25	-964.14	13.26	0.32	-687.68	0.70	-0.65	
2	11	160.00	-710.88	20.34	0.39	-487.10	2.74	-11.10	
2	12	-180.00	-1468.39	-14.30	-125.68	-855.12	81.85	0.40	
2	12	-145.00	-1484.87	-20.12	-125.68	-865.85	32.00	0.89	
2	12	-95.00	-1454.44	-14.68	-70.64	-881.72	-1.90	3.24	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	12	-45.00	-1403.23	0.53	-16.73	-909.83	-7.39	7.54	
2	12	5.00	-1345.15	16.53	4.81	-960.48	-2.32	13.22	
2	12	43.75	-1277.47	21.49	5.79	-974.46	-0.52	12.46	
2	12	82.50	-1186.57	20.89	4.86	-913.07	1.30	8.10	
2	12	121.25	-1058.17	12.67	-0.89	-789.29	1.93	-1.56	
2	12	160.00	-785.31	20.45	-1.06	-561.44	3.57	-13.48	
2	13	-180.00	-1483.46	-14.12	-125.65	-867.43	81.96	0.40	
2	13	-145.00	-1500.01	-20.01	-125.65	-878.37	32.12	0.89	
2	13	-95.00	-1469.66	-14.59	-70.61	-894.63	-1.75	3.28	
2	13	-45.00	-1418.46	0.64	-16.71	-923.39	-7.23	7.61	
2	13	5.00	-1360.39	16.64	4.76	-975.11	-2.19	13.33	
2	13	43.75	-1292.44	21.63	5.74	-989.19	-0.42	12.56	
2	13	82.50	-1200.87	21.01	4.80	-926.72	1.38	8.20	
2	13	121.25	-1071.28	12.70	-1.01	-800.91	1.98	-1.46	
2	13	160.00	-794.74	20.72	-1.13	-569.77	3.58	-13.40	
2	14	-180.00	-929.51	-19.57	-112.02	-522.24	73.61	0.27	
2	14	-145.00	-942.66	-23.78	-112.02	-529.03	29.50	0.50	
2	14	-95.00	-920.54	-19.26	-65.88	-538.68	-2.38	1.79	
2	14	-45.00	-882.68	-6.33	-19.46	-554.91	-9.90	4.12	
2	14	5.00	-839.19	8.40	2.20	-581.46	-6.37	7.09	
2	14	43.75	-789.54	12.77	5.53	-584.92	-3.87	6.61	
2	14	82.50	-726.95	12.59	5.83	-546.23	-1.49	4.22	
2	14	121.25	-641.82	8.05	2.35	-472.00	0.05	-1.02	
2	14	160.00	-468.28	12.83	1.78	-335.32	2.02	-7.38	
2	15	-180.00	-1035.23	-17.96	-110.56	-640.67	73.48	0.29	
2	15	-145.00	-1048.78	-22.82	-110.56	-648.64	29.89	0.57	
2	15	-95.00	-1026.92	-18.42	-64.35	-659.91	-1.20	2.05	
2	15	-45.00	-988.97	-5.33	-18.05	-678.40	-7.95	4.74	
2	15	5.00	-945.46	9.31	2.72	-708.73	-4.18	8.26	
2	15	43.75	-894.77	13.70	5.40	-712.32	-1.97	7.63	
2	15	82.50	-828.34	13.29	5.31	-664.63	0.14	4.60	
2	15	121.25	-735.85	7.45	1.14	-573.61	1.29	-1.92	
2	15	160.00	-542.71	12.94	0.33	-409.66	2.85	-9.76	
2	16	-180.00	-1050.30	-17.79	-110.53	-652.98	73.58	0.29	
2	16	-145.00	-1063.93	-22.72	-110.53	-661.16	30.01	0.57	
2	16	-95.00	-1042.14	-18.33	-64.31	-672.82	-1.05	2.08	
2	16	-45.00	-1004.20	-5.22	-18.03	-691.96	-7.78	4.81	
2	16	5.00	-960.69	9.42	2.67	-723.37	-4.05	8.38	
2	16	43.75	-909.75	13.83	5.34	-727.05	-1.86	7.72	
2	16	82.50	-842.64	13.41	5.25	-678.27	0.22	4.70	
2	16	121.25	-748.97	7.48	1.03	-585.23	1.33	-1.82	
2	16	160.00	-552.14	13.21	0.27	-417.99	2.86	-9.68	
2	17	-180.00	-1547.58	-12.22	-127.04	-1109.26	84.80	0.41	
2	17	-145.00	-1564.39	-19.42	-127.04	-1125.26	34.49	0.91	
2	17	-95.00	-1534.43	-14.39	-71.93	-1149.11	0.02	3.47	
2	17	-45.00	-1484.03	1.00	-18.31	-1187.49	-6.19	8.10	
2	17	5.00	-1428.13	16.98	2.59	-1254.05	-2.46	13.92	
2	17	43.75	-1358.84	22.07	4.24	-1265.66	-1.20	12.63	
2	17	82.50	-1261.94	20.81	3.90	-1183.14	0.34	8.52	
2	17	121.25	-1123.64	10.39	-1.83	-1022.87	0.58	-0.44	
2	17	160.00	-826.10	17.81	-0.56	-735.60	2.06	-11.56	
2	18	-180.00	-1555.12	-12.13	-127.03	-1115.42	84.85	0.41	
2	18	-145.00	-1571.97	-19.36	-127.03	-1131.51	34.55	0.91	
2	18	-95.00	-1542.04	-14.34	-71.91	-1155.56	0.09	3.49	
2	18	-45.00	-1491.65	1.05	-18.30	-1194.27	-6.10	8.14	
2	18	5.00	-1435.75	17.04	2.57	-1261.37	-2.39	13.98	
2	18	43.75	-1366.33	22.14	4.22	-1273.03	-1.15	12.68	
2	18	82.50	-1269.09	20.87	3.87	-1189.96	0.38	8.57	
2	18	121.25	-1130.20	10.40	-1.89	-1028.68	0.60	-0.40	
2	18	160.00	-830.81	17.95	-0.60	-739.77	2.06	-11.52	
2	19	-180.00	-1668.37	-10.43	-125.55	-1240.00	84.77	0.43	
2	19	-145.00	-1685.66	-18.35	-125.55	-1257.39	35.00	0.98	
2	19	-95.00	-1656.03	-13.46	-70.36	-1283.25	1.35	3.76	
2	19	-45.00	-1605.55	2.10	-16.88	-1324.54	-4.07	8.79	
2	19	5.00	-1549.64	18.00	3.07	-1395.96	-0.14	15.21	
2	19	43.75	-1479.05	23.13	4.05	-1407.79	0.81	13.73	
2	19	82.50	-1377.62	21.63	3.32	-1315.18	2.05	9.00	
2	19	121.25	-1230.79	9.83	-3.16	-1136.10	1.86	-1.25	
2	19	160.00	-909.96	18.19	-2.08	-818.28	2.90	-13.86	
2	20	-180.00	-1675.91	-10.35	-125.54	-1246.15	84.83	0.43	
2	20	-145.00	-1693.24	-18.30	-125.54	-1263.65	35.06	0.98	
2	20	-95.00	-1663.64	-13.41	-70.34	-1289.70	1.42	3.78	
2	20	-45.00	-1613.17	2.15	-16.87	-1331.32	-3.98	8.83	
2	20	5.00	-1557.26	18.06	3.04	-1403.28	-0.08	15.27	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	20	43.75	-1486.53	23.20	4.03	-1415.16	0.86	13.78	
2	20	82.50	-1384.78	21.69	3.29	-1322.00	2.09	9.05	
2	20	121.25	-1237.35	9.84	-3.21	-1141.91	1.88	-1.20	
2	20	160.00	-914.68	18.33	-2.11	-822.45	2.90	-13.82	
2	21	-180.00	-1114.42	-15.88	-111.92	-894.82	76.42	0.30	
2	21	-145.00	-1128.31	-22.12	-111.92	-908.05	32.38	0.59	
2	21	-95.00	-1106.90	-18.13	-65.63	-927.30	0.72	2.28	
2	21	-45.00	-1069.78	-4.86	-19.64	-956.06	-6.74	5.31	
2	21	5.00	-1028.43	9.76	0.51	-1002.31	-4.31	8.97	
2	21	43.75	-976.14	14.27	3.85	-1003.52	-2.64	7.79	
2	21	82.50	-903.71	13.21	4.34	-934.70	-0.82	5.02	
2	21	121.25	-801.32	5.17	0.20	-807.19	-0.07	-0.81	
2	21	160.00	-583.50	10.31	0.83	-583.83	1.34	-7.84	
2	22	-180.00	-1121.95	-15.80	-111.91	-900.97	76.48	0.30	
2	22	-145.00	-1135.88	-22.07	-111.91	-914.31	32.44	0.60	
2	22	-95.00	-1114.51	-18.08	-65.61	-933.75	0.80	2.29	
2	22	-45.00	-1077.39	-4.81	-19.62	-962.84	-6.66	5.34	
2	22	5.00	-1036.05	9.82	0.48	-1009.63	-4.25	9.02	
2	22	43.75	-983.63	14.34	3.82	-1010.89	-2.59	7.84	
2	22	82.50	-910.86	13.27	4.31	-941.52	-0.78	5.07	
2	22	121.25	-807.88	5.19	0.15	-813.00	-0.05	-0.76	
2	22	160.00	-588.22	10.44	0.80	-587.99	1.35	-7.80	
2	23	-180.00	-1235.21	-14.10	-110.44	-1025.55	76.40	0.32	
2	23	-145.00	-1249.58	-21.06	-110.44	-1040.18	32.89	0.66	
2	23	-95.00	-1228.51	-17.19	-64.06	-1061.44	2.05	2.57	
2	23	-45.00	-1191.30	-3.76	-18.20	-1093.11	-4.62	6.00	
2	23	5.00	-1149.94	10.78	0.98	-1144.22	-2.00	10.26	
2	23	43.75	-1096.35	15.33	3.66	-1145.66	-0.64	8.90	
2	23	82.50	-1019.39	14.02	3.77	-1066.74	0.89	5.50	
2	23	121.25	-908.47	4.61	-1.12	-920.42	1.21	-1.62	
2	23	160.00	-667.36	10.69	-0.68	-666.50	2.18	-10.14	
2	24	-180.00	-1242.74	-14.01	-110.42	-1031.71	76.45	0.32	
2	24	-145.00	-1257.15	-21.00	-110.42	-1046.44	32.95	0.67	
2	24	-95.00	-1236.12	-17.15	-64.04	-1067.89	2.12	2.58	
2	24	-45.00	-1198.92	-3.71	-18.19	-1099.89	-4.54	6.03	
2	24	5.00	-1157.56	10.84	0.96	-1151.54	-1.93	10.31	
2	24	43.75	-1103.83	15.40	3.63	-1153.02	-0.59	8.94	
2	24	82.50	-1026.54	14.09	3.74	-1073.56	0.93	5.55	
2	24	121.25	-915.03	4.62	-1.18	-926.23	1.23	-1.57	
2	24	160.00	-672.08	10.83	-0.72	-670.67	2.18	-10.10	
2	25	-180.00	-1338.83	-23.63	-151.25	-744.39	99.61	0.39	
2	25	-145.00	-1357.13	-29.41	-151.25	-753.50	40.09	0.77	
2	25	-95.00	-1329.66	-23.21	-89.11	-766.31	-3.08	2.80	
2	25	-45.00	-1280.90	-5.42	-26.24	-789.16	-13.22	6.52	
2	25	5.00	-1224.01	14.82	3.03	-828.96	-8.38	11.40	
2	25	43.75	-1157.82	20.89	7.42	-837.87	-5.20	10.88	
2	25	82.50	-1071.55	20.62	7.63	-784.08	-2.16	7.09	
2	25	121.25	-951.64	13.73	2.54	-677.55	-0.24	-1.32	
2	25	160.00	-701.69	20.26	2.22	-479.52	2.59	-11.68	
2	26	-180.00	-1346.36	-23.54	-151.23	-750.55	99.66	0.39	
2	26	-145.00	-1364.70	-29.36	-151.23	-759.76	40.15	0.78	
2	26	-95.00	-1337.28	-23.16	-89.09	-772.77	-3.01	2.81	
2	26	-45.00	-1288.52	-5.36	-26.23	-795.94	-13.14	6.55	
2	26	5.00	-1231.62	14.87	3.00	-836.28	-8.32	11.46	
2	26	43.75	-1165.31	20.96	7.39	-845.23	-5.15	10.92	
2	26	82.50	-1078.70	20.68	7.60	-790.90	-2.12	7.14	
2	26	121.25	-958.20	13.75	2.48	-683.36	-0.22	-1.27	
2	26	160.00	-706.41	20.39	2.19	-483.68	2.60	-11.63	
2	27	-180.00	-1459.61	-21.84	-149.76	-875.13	99.59	0.41	
2	27	-145.00	-1478.39	-28.34	-149.76	-885.64	40.59	0.84	
2	27	-95.00	-1451.27	-22.28	-87.53	-900.45	-1.75	3.09	
2	27	-45.00	-1402.42	-4.31	-24.80	-926.20	-11.10	7.21	
2	27	5.00	-1345.51	15.84	3.50	-970.87	-6.07	12.69	
2	27	43.75	-1278.03	21.95	7.23	-980.00	-3.19	11.98	
2	27	82.50	-1187.23	21.44	7.05	-916.12	-0.44	7.57	
2	27	121.25	-1058.79	13.17	1.21	-790.79	1.04	-2.13	
2	27	160.00	-785.55	20.64	0.70	-562.19	3.43	-13.97	
2	28	-180.00	-1467.15	-21.75	-149.74	-881.28	99.64	0.41	
2	28	-145.00	-1485.97	-28.29	-149.74	-891.89	40.65	0.84	
2	28	-95.00	-1458.88	-22.23	-87.52	-906.91	-1.68	3.10	
2	28	-45.00	-1410.04	-4.26	-24.79	-932.99	-11.02	7.24	
2	28	5.00	-1353.13	15.89	3.48	-978.18	-6.00	12.75	
2	28	43.75	-1285.51	22.02	7.20	-987.36	-3.14	12.03	
2	28	82.50	-1194.38	21.50	7.02	-922.94	-0.40	7.62	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	28		121.25	-1065.35	13.18	1.16	-796.60	1.06	-2.08
2	28		160.00	-790.27	20.77	0.67	-566.36	3.43	-13.93
2	29		-180.00	-905.66	-27.29	-136.13	-529.94	91.24	0.28
2	29		-145.00	-921.04	-32.12	-136.13	-536.30	37.98	0.45
2	29		-95.00	-902.14	-26.94	-82.81	-544.50	-2.38	1.60
2	29		-45.00	-866.65	-11.28	-27.56	-557.73	-13.78	3.72
2	29		5.00	-824.31	7.60	0.94	-577.22	-10.24	6.45
2	29		43.75	-775.12	13.09	7.02	-575.73	-6.64	6.04
2	29		82.50	-713.31	13.02	8.08	-535.63	-3.32	3.59
2	29		121.25	-629.32	8.51	4.57	-461.87	-0.89	-1.69
2	29		160.00	-459.09	12.75	3.62	-327.74	1.88	-7.96
2	30		-180.00	-913.20	-27.20	-136.11	-536.10	91.29	0.28
2	30		-145.00	-928.62	-32.06	-136.11	-542.55	38.04	0.46
2	30		-95.00	-909.75	-26.90	-82.79	-550.96	-2.31	1.62
2	30		-45.00	-874.26	-11.22	-27.55	-564.51	-13.69	3.75
2	30		5.00	-831.93	7.65	0.92	-584.54	-10.17	6.50
2	30		43.75	-782.61	13.16	6.99	-583.09	-6.59	6.09
2	30		82.50	-720.47	13.08	8.05	-542.45	-3.28	3.64
2	30		121.25	-635.88	8.53	4.52	-467.68	-0.87	-1.64
2	30		160.00	-463.81	12.89	3.59	-331.91	1.88	-7.92
2	31		-180.00	-1026.45	-25.51	-134.64	-660.68	91.21	0.30
2	31		-145.00	-1042.31	-31.05	-134.64	-668.43	38.48	0.52
2	31		-95.00	-1023.74	-26.01	-81.24	-678.64	-1.05	1.89
2	31		-45.00	-988.17	-10.17	-26.13	-694.77	-11.66	4.41
2	31		5.00	-945.81	8.62	1.41	-719.12	-7.92	7.73
2	31		43.75	-895.33	14.15	6.83	-717.86	-4.64	7.14
2	31		82.50	-829.00	13.83	7.50	-667.67	-1.60	4.08
2	31		121.25	-736.47	7.95	3.25	-575.11	0.39	-2.49
2	31		160.00	-542.95	13.13	2.10	-410.42	2.72	-10.26
2	32		-180.00	-1033.98	-25.42	-134.62	-666.83	91.27	0.30
2	32		-145.00	-1049.88	-31.00	-134.62	-674.69	38.54	0.53
2	32		-95.00	-1031.35	-25.97	-81.22	-685.09	-0.98	1.91
2	32		-45.00	-995.79	-10.12	-26.12	-701.55	-11.57	4.44
2	32		5.00	-953.43	8.67	1.39	-726.44	-7.86	7.79
2	32		43.75	-902.81	14.22	6.80	-725.23	-4.59	7.19
2	32		82.50	-836.15	13.89	7.47	-674.49	-1.56	4.12
2	32		121.25	-743.03	7.97	3.19	-580.92	0.41	-2.44
2	32		160.00	-547.67	13.27	2.07	-414.58	2.72	-10.21
2	33		-180.00	-1668.98	140.79	-59.24	922.64	-183.19	0.96
2	33		-145.00	-1680.29	136.84	-59.24	914.76	-216.89	1.59
2	33		-95.00	-1655.76	117.98	-38.40	942.02	-236.84	9.51
2	33		-45.00	-1622.57	170.42	-29.51	978.20	-247.44	20.06
2	33		5.00	-1669.58	173.25	-4.98	453.55	-259.98	24.94
2	33		43.75	-1579.63	211.51	120.72	78.34	-251.76	14.64
2	33		82.50	-1419.00	215.60	140.12	-54.48	-215.46	7.00
2	33		121.25	-1301.99	105.42	146.59	-46.20	-168.39	-14.77
2	33		160.00	-944.93	66.48	168.83	-120.20	-104.80	-20.48
2	34		-180.00	-1769.92	504.25	-42.82	2033.57	-219.55	0.36
...									
2	96		160.00	-443.47	1141.65	17.51	-177.98	44.56	69.64
<b>M</b>	<b>S</b>			<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
				-1784.80	-1191.83	-194.06	-3722.87	-281.07	-87.79
				-151.54	1220.37	191.87	2520.11	337.21	81.61

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	kN	kN	kN	kN m	kN m	kN m
3	1		-180.00	-1753.92	-23.84	293.18	-1675.87	-227.45	-1.15
3	1		-145.00	-1736.41	-26.33	293.18	-1725.97	-113.64	-1.36
3	1		-95.00	-1603.10	-23.01	188.66	-1851.74	-21.45	-0.83
3	1		-45.00	-1409.29	-16.99	74.98	-1998.49	11.59	0.12
3	1		5.00	-895.56	3.91	3.38	-2521.44	7.32	0.77
3	1		43.75	-347.74	9.76	-2.05	258.16	3.87	2.90
3	1		82.50	-302.72	5.16	-2.30	240.91	2.81	4.32
3	1		121.25	-240.69	-12.16	-2.56	195.86	2.11	4.39
3	1		160.00	-191.68	-40.78	-3.23	148.00	0.45	2.79
3	2		-180.00	-1844.65	-24.49	293.25	-1745.35	-227.35	-1.22

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	2		-145.00	-1826.02	-27.22	293.25	-1800.27	-113.52	-1.44
3	2		-95.00	-1689.98	-23.94	188.64	-1935.80	-21.35	-0.87
3	2		-45.00	-1490.48	-17.96	74.95	-2094.39	11.65	0.15
3	2		5.00	-949.33	4.24	3.41	-2655.30	7.33	0.87
3	2		43.75	-368.09	10.55	-2.02	276.71	3.89	3.00
3	2		82.50	-320.72	5.43	-2.29	257.68	2.84	4.44
3	2		121.25	-255.20	-13.66	-2.61	208.76	2.16	4.50
3	2		160.00	-205.09	-45.52	-3.34	157.84	0.47	2.84
3	3		-180.00	-1885.75	-34.65	427.95	-1842.25	-338.94	-1.36
3	3		-145.00	-1867.66	-37.21	427.95	-1889.21	-173.46	-1.62
3	3		-95.00	-1705.13	-32.57	280.73	-2022.99	-35.80	-1.04
3	3		-45.00	-1476.13	-24.07	116.30	-2183.84	16.46	0.06
3	3		5.00	-928.06	3.08	7.03	-2708.20	11.61	0.83
3	3		43.75	-363.37	10.91	-3.47	254.09	5.99	4.17
3	3		82.50	-313.05	5.69	-4.18	233.94	4.05	6.39
3	3		121.25	-245.78	-14.63	-4.11	185.19	2.62	6.88
3	3		160.00	-200.74	-51.07	-4.32	140.28	0.38	5.01
3	4		-180.00	-1895.32	-34.77	427.95	-1848.48	-338.94	-1.37
3	4		-145.00	-1877.10	-37.36	427.95	-1895.97	-173.45	-1.63
3	4		-95.00	-1714.27	-32.73	280.73	-2030.74	-35.80	-1.04
3	4		-45.00	-1484.66	-24.22	116.29	-2192.79	16.46	0.07
3	4		5.00	-933.67	3.01	7.03	-2721.45	11.60	0.84
3	4		43.75	-365.47	10.85	-3.46	256.08	5.99	4.18
3	4		82.50	-314.95	5.60	-4.17	235.84	4.05	6.40
3	4		121.25	-247.35	-14.78	-4.11	186.80	2.63	6.88
3	4		160.00	-201.92	-51.26	-4.33	141.47	0.38	5.00
3	5		-180.00	-2112.58	-36.27	428.13	-2015.95	-338.69	-1.53
3	5		-145.00	-2091.67	-39.43	428.13	-2074.95	-173.15	-1.81
3	5		-95.00	-1922.34	-34.88	280.67	-2233.12	-35.55	-1.14
3	5		-45.00	-1679.12	-26.48	116.24	-2423.58	16.61	0.13
3	5		5.00	-1062.49	3.90	7.11	-3042.84	11.64	1.09
3	5		43.75	-414.23	12.89	-3.38	300.48	6.03	4.43
3	5		82.50	-358.04	6.36	-4.14	275.87	4.13	6.70
3	5		121.25	-282.03	-18.37	-4.23	217.45	2.75	7.15
3	5		160.00	-234.26	-62.91	-4.61	164.88	0.42	5.13
3	6		-180.00	-2122.14	-36.40	428.14	-2022.17	-338.69	-1.53
3	6		-145.00	-2101.11	-39.58	428.14	-2081.71	-173.15	-1.82
3	6		-95.00	-1931.48	-35.04	280.66	-2240.87	-35.55	-1.14
3	6		-45.00	-1687.64	-26.63	116.24	-2432.53	16.60	0.13
3	6		5.00	-1068.11	3.83	7.11	-3056.10	11.64	1.10
3	6		43.75	-416.33	12.82	-3.37	302.47	6.03	4.44
3	6		82.50	-359.95	6.27	-4.13	277.77	4.13	6.71
3	6		121.25	-283.61	-18.52	-4.23	219.06	2.76	7.15
3	6		160.00	-235.44	-63.09	-4.62	166.07	0.42	5.12
3	7		-180.00	-1293.56	-29.25	371.23	-1282.96	-299.80	-0.97
3	7		-145.00	-1281.62	-30.94	371.23	-1312.06	-156.73	-1.17
3	7		-95.00	-1161.16	-27.02	247.72	-1402.80	-34.85	-0.82
3	7		-45.00	-994.52	-19.67	106.40	-1512.82	13.73	-0.12
3	7		5.00	-620.51	0.39	8.07	-1857.26	10.78	0.39
3	7		43.75	-244.85	5.76	-3.23	161.95	5.60	3.54
3	7		82.50	-210.05	2.56	-4.05	149.02	3.69	5.51
3	7		121.25	-164.19	-10.16	-3.82	117.77	2.21	6.04
3	7		160.00	-132.05	-32.83	-3.72	88.91	0.25	4.56
3	8		-180.00	-1303.13	-29.37	371.23	-1289.19	-299.80	-0.98
3	8		-145.00	-1291.06	-31.09	371.23	-1318.81	-156.73	-1.17
3	8		-95.00	-1170.30	-27.18	247.72	-1410.56	-34.85	-0.83
3	8		-45.00	-1003.04	-19.83	106.39	-1521.77	13.73	-0.11
3	8		5.00	-626.13	0.32	8.07	-1870.51	10.78	0.40
3	8		43.75	-246.95	5.69	-3.22	163.94	5.60	3.54
3	8		82.50	-211.95	2.47	-4.05	150.91	3.69	5.52
3	8		121.25	-165.76	-10.31	-3.82	119.39	2.22	6.04
3	8		160.00	-133.24	-33.01	-3.73	90.11	0.25	4.56
3	9		-180.00	-1520.39	-30.87	371.41	-1456.66	-299.54	-1.13
3	9		-145.00	-1505.63	-33.16	371.41	-1497.80	-156.42	-1.36
3	9		-95.00	-1378.37	-29.33	247.66	-1612.94	-34.61	-0.93
3	9		-45.00	-1197.50	-22.08	106.34	-1752.56	13.88	-0.05
3	9		5.00	-754.95	1.21	8.15	-2191.91	10.82	0.65
3	9		43.75	-295.71	7.73	-3.14	208.33	5.63	3.80
3	9		82.50	-255.04	3.23	-4.01	190.95	3.77	5.82
3	9		121.25	-200.44	-13.90	-3.94	150.03	2.35	6.31
3	9		160.00	-165.57	-44.67	-4.00	113.51	0.29	4.68
3	10		-180.00	-1529.95	-30.99	371.42	-1462.88	-299.54	-1.14
3	10		-145.00	-1515.07	-33.32	371.42	-1504.55	-156.42	-1.37
3	10		-95.00	-1387.51	-29.49	247.65	-1620.69	-34.61	-0.93

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	10	-45.00	-1206.03	-22.24	106.33	-1761.51	13.87	-0.05	
3	10	5.00	-760.56	1.14	8.16	-2205.16	10.81	0.65	
3	10	43.75	-297.82	7.67	-3.13	210.32	5.63	3.81	
3	10	82.50	-256.95	3.14	-4.01	192.84	3.77	5.82	
3	10	121.25	-202.02	-14.05	-3.94	151.64	2.35	6.31	
3	10	160.00	-166.76	-44.85	-4.01	114.71	0.29	4.68	
3	11	-180.00	-1904.88	-34.89	427.96	-1854.70	-338.94	-1.38	
3	11	-145.00	-1886.53	-37.52	427.96	-1902.72	-173.45	-1.63	
3	11	-95.00	-1723.41	-32.89	280.72	-2038.49	-35.80	-1.05	
3	11	-45.00	-1493.19	-24.38	116.29	-2201.74	16.46	0.07	
3	11	5.00	-939.29	2.94	7.04	-2734.71	11.60	0.85	
3	11	43.75	-367.58	10.78	-3.46	258.08	5.99	4.18	
3	11	82.50	-316.85	5.52	-4.17	237.73	4.06	6.41	
3	11	121.25	-248.93	-14.93	-4.11	188.42	2.63	6.88	
3	11	160.00	-203.11	-51.44	-4.34	142.67	0.38	5.00	
3	12	-180.00	-2044.53	-35.79	428.08	-1963.84	-338.76	-1.48	
3	12	-145.00	-2024.47	-38.76	428.08	-2019.23	-173.24	-1.75	
3	12	-95.00	-1857.18	-34.19	280.69	-2170.08	-35.63	-1.11	
3	12	-45.00	-1618.22	-25.75	116.26	-2351.66	16.56	0.11	
3	12	5.00	-1022.16	3.65	7.08	-2942.45	11.63	1.01	
3	12	43.75	-398.97	12.30	-3.40	286.56	6.02	4.35	
3	12	82.50	-344.55	6.16	-4.15	263.29	4.11	6.61	
3	12	121.25	-271.16	-17.25	-4.19	207.77	2.71	7.07	
3	12	160.00	-224.20	-59.36	-4.52	157.50	0.41	5.09	
3	13	-180.00	-2063.66	-36.03	428.09	-1976.29	-338.76	-1.49	
3	13	-145.00	-2043.34	-39.07	428.09	-2032.74	-173.24	-1.77	
3	13	-95.00	-1875.45	-34.51	280.67	-2185.59	-35.63	-1.12	
3	13	-45.00	-1635.28	-26.07	116.25	-2369.56	16.56	0.11	
3	13	5.00	-1033.39	3.51	7.09	-2968.96	11.62	1.03	
3	13	43.75	-403.18	12.17	-3.40	290.54	6.02	4.37	
3	13	82.50	-348.35	5.98	-4.14	267.08	4.11	6.62	
3	13	121.25	-274.31	-17.55	-4.19	211.00	2.73	7.07	
3	13	160.00	-226.57	-59.72	-4.54	159.89	0.41	5.08	
3	14	-180.00	-1312.69	-29.49	371.24	-1295.41	-299.79	-0.98	
3	14	-145.00	-1300.49	-31.25	371.24	-1325.56	-156.72	-1.18	
3	14	-95.00	-1179.44	-27.34	247.71	-1418.31	-34.85	-0.83	
3	14	-45.00	-1011.57	-19.99	106.39	-1530.72	13.72	-0.11	
3	14	5.00	-631.74	0.25	8.08	-1883.77	10.77	0.40	
3	14	43.75	-249.06	5.63	-3.22	165.93	5.59	3.55	
3	14	82.50	-213.85	2.38	-4.04	152.81	3.69	5.52	
3	14	121.25	-167.34	-10.46	-3.82	121.00	2.23	6.05	
3	14	160.00	-134.42	-33.19	-3.74	91.31	0.26	4.55	
3	15	-180.00	-1452.34	-30.38	371.36	-1404.55	-299.62	-1.09	
3	15	-145.00	-1438.43	-32.50	371.36	-1442.07	-156.51	-1.30	
3	15	-95.00	-1313.21	-28.64	247.68	-1549.90	-34.68	-0.90	
3	15	-45.00	-1136.60	-21.36	106.36	-1680.64	13.83	-0.07	
3	15	5.00	-714.62	0.96	8.12	-2091.51	10.81	0.57	
3	15	43.75	-280.45	7.14	-3.16	194.42	5.62	3.72	
3	15	82.50	-241.55	3.03	-4.02	178.37	3.74	5.73	
3	15	121.25	-189.57	-12.78	-3.90	140.35	2.31	6.23	
3	15	160.00	-155.52	-41.12	-3.92	106.13	0.28	4.65	
3	16	-180.00	-1471.47	-30.63	371.36	-1417.00	-299.62	-1.10	
3	16	-145.00	-1457.30	-32.80	371.36	-1455.58	-156.51	-1.32	
3	16	-95.00	-1331.48	-28.96	247.67	-1565.41	-34.68	-0.90	
3	16	-45.00	-1153.66	-21.68	106.35	-1698.54	13.82	-0.06	
3	16	5.00	-725.85	0.82	8.14	-2118.02	10.80	0.58	
3	16	43.75	-284.66	7.01	-3.16	198.40	5.62	3.73	
3	16	82.50	-245.35	2.85	-4.01	182.16	3.75	5.74	
3	16	121.25	-192.72	-13.08	-3.90	143.58	2.32	6.23	
3	16	160.00	-157.89	-41.48	-3.94	108.53	0.28	4.63	
3	17	-180.00	-2441.78	-34.97	428.04	-2328.46	-339.40	-1.60	
3	17	-145.00	-2417.40	-38.66	428.04	-2399.04	-173.87	-1.89	
3	17	-95.00	-2239.84	-33.98	280.56	-2574.89	-36.30	-1.17	
3	17	-45.00	-1978.34	-25.18	116.44	-2780.17	15.96	0.14	
3	17	5.00	-1261.31	5.14	7.81	-3519.08	11.36	1.02	
3	17	43.75	-488.51	14.07	-3.15	369.96	5.99	4.31	
3	17	82.50	-426.13	7.55	-3.73	345.45	4.25	6.49	
3	17	121.25	-339.56	-17.12	-4.00	281.25	3.07	6.70	
3	17	160.00	-271.30	-57.80	-4.81	212.65	0.60	4.40	
3	18	-180.00	-2451.34	-35.10	428.04	-2334.68	-339.40	-1.60	
3	18	-145.00	-2426.83	-38.81	428.04	-2405.79	-173.87	-1.90	
3	18	-95.00	-2248.98	-34.14	280.55	-2582.64	-36.30	-1.17	
3	18	-45.00	-1986.87	-25.34	116.44	-2789.12	15.95	0.14	
3	18	5.00	-1266.93	5.07	7.82	-3532.33	11.35	1.03	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	18	43.75	-490.62	14.01	-3.15	371.95	5.99	4.32	
3	18	82.50	-428.03	7.46	-3.72	347.34	4.25	6.50	
3	18	121.25	-341.14	-17.27	-4.00	282.86	3.08	6.70	
3	18	160.00	-272.49	-57.98	-4.82	213.85	0.60	4.39	
3	19	-180.00	-2600.55	-36.11	428.17	-2450.05	-339.23	-1.71	
3	19	-145.00	-2574.21	-40.21	428.17	-2529.06	-173.66	-2.03	
3	19	-95.00	-2391.89	-35.60	280.51	-2721.98	-36.13	-1.24	
3	19	-45.00	-2120.43	-26.87	116.40	-2947.98	16.06	0.18	
3	19	5.00	-1355.42	5.71	7.87	-3753.33	11.38	1.20	
3	19	43.75	-524.12	15.46	-3.09	402.43	6.01	4.50	
3	19	82.50	-457.63	8.01	-3.70	374.80	4.31	6.71	
3	19	121.25	-364.94	-19.74	-4.09	303.83	3.16	6.89	
3	19	160.00	-294.77	-66.09	-5.01	229.87	0.62	4.48	
3	20	-180.00	-2610.12	-36.23	428.17	-2456.27	-339.23	-1.72	
3	20	-145.00	-2583.64	-40.37	428.17	-2535.81	-173.66	-2.03	
3	20	-95.00	-2401.02	-35.76	280.51	-2729.74	-36.13	-1.24	
3	20	-45.00	-2128.96	-27.03	116.40	-2956.93	16.05	0.19	
3	20	5.00	-1361.03	5.64	7.88	-3766.59	11.38	1.21	
3	20	43.75	-526.22	15.39	-3.09	404.42	6.01	4.51	
3	20	82.50	-459.53	7.92	-3.69	376.70	4.31	6.71	
3	20	121.25	-366.52	-19.89	-4.09	305.44	3.17	6.89	
3	20	160.00	-295.95	-66.27	-5.02	231.07	0.63	4.48	
3	21	-180.00	-1849.59	-29.57	371.32	-1769.17	-300.26	-1.20	
3	21	-145.00	-1831.36	-32.39	371.32	-1821.88	-157.15	-1.44	
3	21	-95.00	-1695.87	-28.43	247.55	-1954.70	-35.36	-0.96	
3	21	-45.00	-1496.73	-20.79	106.54	-2109.15	13.22	-0.04	
3	21	5.00	-953.77	2.45	8.85	-2668.14	10.53	0.58	
3	21	43.75	-369.99	8.92	-2.91	277.81	5.59	3.68	
3	21	82.50	-323.13	4.41	-3.60	260.52	3.89	5.61	
3	21	121.25	-257.97	-12.65	-3.71	213.83	2.67	5.86	
3	21	160.00	-202.62	-39.56	-4.21	161.28	0.47	3.96	
3	22	-180.00	-1859.15	-29.70	371.32	-1775.39	-300.26	-1.21	
3	22	-145.00	-1840.80	-32.54	371.32	-1828.63	-157.14	-1.44	
3	22	-95.00	-1705.01	-28.59	247.55	-1962.46	-35.36	-0.96	
3	22	-45.00	-1505.25	-20.95	106.53	-2118.10	13.22	-0.04	
3	22	5.00	-959.38	2.38	8.86	-2681.39	10.53	0.59	
3	22	43.75	-372.10	8.85	-2.91	279.80	5.59	3.69	
3	22	82.50	-325.03	4.32	-3.60	262.42	3.89	5.62	
3	22	121.25	-259.55	-12.80	-3.71	215.44	2.67	5.86	
3	22	160.00	-203.81	-39.74	-4.22	162.48	0.47	3.95	
3	23	-180.00	-2008.37	-30.71	371.44	-1890.76	-300.08	-1.32	
3	23	-145.00	-1988.17	-33.94	371.44	-1951.90	-156.93	-1.57	
3	23	-95.00	-1847.92	-30.05	247.51	-2101.80	-35.19	-1.03	
3	23	-45.00	-1638.81	-22.48	106.50	-2276.96	13.33	3.38e-03	
3	23	5.00	-1047.87	3.02	8.91	-2902.39	10.56	0.76	
3	23	43.75	-405.60	10.30	-2.85	310.28	5.61	3.87	
3	23	82.50	-354.63	4.88	-3.57	289.88	3.95	5.83	
3	23	121.25	-283.35	-15.27	-3.80	236.41	2.76	6.05	
3	23	160.00	-226.08	-47.84	-4.41	178.50	0.50	4.04	
3	24	-180.00	-2017.93	-30.83	371.45	-1896.98	-300.08	-1.32	
3	24	-145.00	-1997.60	-34.10	371.45	-1958.65	-156.93	-1.58	
3	24	-95.00	-1857.05	-30.21	247.50	-2109.55	-35.19	-1.03	
3	24	-45.00	-1647.34	-22.64	106.49	-2285.91	13.32	6.90e-03	
3	24	5.00	-1053.49	2.95	8.92	-2915.65	10.55	0.77	
3	24	43.75	-407.70	10.24	-2.85	312.27	5.61	3.87	
3	24	82.50	-356.53	4.79	-3.57	291.77	3.95	5.83	
3	24	121.25	-284.93	-15.42	-3.80	238.02	2.77	6.05	
3	24	160.00	-227.27	-48.02	-4.42	179.70	0.50	4.03	
3	25	-180.00	-1884.43	-40.62	506.07	-1852.40	-411.64	-1.39	
3	25	-145.00	-1866.70	-43.34	506.07	-1897.50	-216.86	-1.66	
3	25	-95.00	-1704.54	-38.08	339.65	-2031.13	-49.61	-1.14	
3	25	-45.00	-1475.72	-28.05	147.84	-2192.90	18.19	-0.07	
3	25	5.00	-927.92	1.59	12.36	-2714.13	14.84	0.68	
3	25	43.75	-363.55	10.33	-4.39	254.06	7.67	4.96	
3	25	82.50	-313.20	5.20	-5.58	233.85	5.05	7.72	
3	25	121.25	-245.88	-15.03	-5.28	185.06	3.04	8.47	
3	25	160.00	-200.81	-51.34	-5.17	140.12	0.33	6.40	
3	26	-180.00	-1893.99	-40.75	506.08	-1858.62	-411.64	-1.40	
3	26	-145.00	-1876.13	-43.49	506.08	-1904.25	-216.86	-1.67	
3	26	-95.00	-1713.68	-38.24	339.64	-2038.88	-49.61	-1.14	
3	26	-45.00	-1484.25	-28.21	147.83	-2201.85	18.19	-0.07	
3	26	5.00	-933.54	1.52	12.37	-2727.38	14.83	0.68	
3	26	43.75	-365.65	10.26	-4.39	256.05	7.66	4.97	
3	26	82.50	-315.10	5.11	-5.58	235.74	5.05	7.73	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
3	26	121.25	-247.46	-15.18	-5.28	186.67	3.05	8.47	
3	26	160.00	-201.99	-51.52	-5.18	141.32	0.34	6.39	
3	27	-180.00	-2043.21	-41.76	506.20	-1973.99	-411.46	-1.51	
3	27	-145.00	-2023.51	-44.89	506.20	-2027.52	-216.65	-1.80	
3	27	-95.00	-1856.59	-39.70	339.60	-2178.22	-49.44	-1.21	
3	27	-45.00	-1617.81	-29.74	147.80	-2360.72	18.29	-0.03	
3	27	5.00	-1022.02	2.17	12.42	-2948.38	14.86	0.86	
3	27	43.75	-399.15	11.71	-4.33	286.53	7.69	5.14	
3	27	82.50	-344.69	5.67	-5.55	263.20	5.10	7.94	
3	27	121.25	-271.26	-17.65	-5.37	207.64	3.13	8.65	
3	27	160.00	-224.27	-59.62	-5.38	157.34	0.36	6.48	
3	28	-180.00	-2052.77	-41.88	506.21	-1980.21	-411.46	-1.51	
3	28	-145.00	-2032.94	-45.04	506.21	-2034.27	-216.65	-1.81	
3	28	-95.00	-1865.73	-39.86	339.60	-2185.98	-49.44	-1.21	
3	28	-45.00	-1626.34	-29.89	147.79	-2369.67	18.29	-0.02	
3	28	5.00	-1027.64	2.10	12.42	-2961.64	14.86	0.86	
3	28	43.75	-401.26	11.65	-4.33	288.52	7.69	5.15	
3	28	82.50	-346.59	5.58	-5.55	265.09	5.11	7.94	
3	28	121.25	-272.84	-17.80	-5.37	209.25	3.14	8.66	
3	28	160.00	-225.46	-59.80	-5.38	158.54	0.36	6.48	
3	29	-180.00	-1292.24	-35.22	449.35	-1293.11	-372.49	-1.00	
3	29	-145.00	-1280.66	-37.07	449.35	-1320.34	-200.13	-1.21	
3	29	-95.00	-1160.58	-32.53	306.64	-1410.94	-48.67	-0.92	
3	29	-45.00	-994.10	-23.66	137.93	-1521.88	15.46	-0.25	
3	29	5.00	-620.38	-1.09	13.40	-1863.19	14.01	0.23	
3	29	43.75	-245.03	5.17	-4.15	161.91	7.27	4.33	
3	29	82.50	-210.20	2.07	-5.46	148.92	4.68	6.84	
3	29	121.25	-164.30	-10.56	-4.99	117.64	2.64	7.63	
3	29	160.00	-132.13	-33.09	-4.57	88.76	0.21	5.96	
3	30	-180.00	-1301.80	-35.35	449.36	-1299.33	-372.49	-1.01	
3	30	-145.00	-1290.10	-37.22	449.36	-1327.09	-200.13	-1.22	
3	30	-95.00	-1169.71	-32.69	306.63	-1418.70	-48.67	-0.92	
3	30	-45.00	-1002.63	-23.82	137.93	-1530.83	15.46	-0.25	
3	30	5.00	-625.99	-1.16	13.41	-1876.45	14.01	0.24	
3	30	43.75	-247.14	5.11	-4.15	163.90	7.27	4.33	
3	30	82.50	-212.10	1.98	-5.45	150.82	4.69	6.85	
3	30	121.25	-165.87	-10.71	-4.99	119.25	2.64	7.63	
3	30	160.00	-133.31	-33.27	-4.58	89.96	0.21	5.95	
3	31	-180.00	-1451.02	-36.36	449.48	-1414.69	-372.32	-1.11	
3	31	-145.00	-1437.47	-38.62	449.48	-1450.36	-199.92	-1.35	
3	31	-95.00	-1312.62	-34.15	306.59	-1558.04	-48.49	-0.99	
3	31	-45.00	-1136.19	-25.34	137.89	-1689.69	15.56	-0.21	
3	31	5.00	-714.48	-0.52	13.46	-2097.44	14.04	0.42	
3	31	43.75	-280.63	6.56	-4.09	194.38	7.29	4.51	
3	31	82.50	-241.69	2.54	-5.43	178.27	4.74	7.06	
3	31	121.25	-189.67	-13.17	-5.08	140.22	2.73	7.81	
3	31	160.00	-155.59	-41.38	-4.77	105.98	0.23	6.04	
3	32	-180.00	-1460.58	-36.48	449.48	-1420.92	-372.31	-1.12	
3	32	-145.00	-1446.90	-38.78	449.48	-1457.11	-199.92	-1.35	
3	32	-95.00	-1321.76	-34.31	306.59	-1565.79	-48.49	-0.99	
3	32	-45.00	-1144.72	-25.50	137.89	-1698.64	15.56	-0.20	
3	32	5.00	-720.09	-0.59	13.47	-2110.70	14.03	0.42	
3	32	43.75	-282.74	6.49	-4.09	196.37	7.29	4.52	
3	32	82.50	-243.59	2.45	-5.42	180.17	4.74	7.06	
3	32	121.25	-191.25	-13.32	-5.08	141.83	2.73	7.82	
3	32	160.00	-156.78	-41.56	-4.78	107.18	0.24	6.03	
3	33	-180.00	-1110.72	687.25	298.86	2015.82	-263.46	1.41	
3	33	-145.00	-1096.28	685.26	298.86	1976.64	-149.53	3.01	
3	33	-95.00	-1001.07	724.42	192.30	1643.59	-51.65	4.22	
3	33	-45.00	-950.93	804.69	81.45	1856.31	-11.05	7.38	
3	33	5.00	-547.76	898.83	-3.65	393.55	-7.88	7.06	
3	33	43.75	-150.36	642.76	-9.61	-276.35	-8.12	-8.71	
3	33	82.50	-130.04	668.55	-9.95	-154.66	-12.59	-13.53	
3	33	121.25	-99.89	651.07	-8.08	0.02	-16.15	-25.56	
3	33	160.00	-98.06	600.39	-8.28	19.39	-18.95	-41.02	
3	34	-180.00	-1166.78	754.79	313.70	-787.15	-202.62	0.10	
...									
3	96	160.00	-368.20	-136.98	-17.09	-78.98	66.29	92.27	
<b>M</b>	<b>S</b>		<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>	
			-2610.12	-958.96	-40.60	-7488.39	-411.64	-92.00	
			56.76	964.70	506.21	4606.79	80.69	98.49	



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	kN	kN	kN	kN m	kN m	kN m
4	1		-180.00	-710.83	-5.43	19.31	123.73	-8.58	-0.27
4	1		-145.00	-707.56	-4.54	19.31	138.76	-1.90	-0.28
4	1		-95.00	-666.66	-3.58	15.39	162.85	5.47	-0.04
4	1		-45.00	-621.27	-3.43	10.99	182.74	10.50	0.27
4	1		5.00	-578.27	-3.60	7.42	197.53	13.99	0.50
4	1		43.75	-539.68	-4.07	4.44	204.64	15.69	0.55
4	1		82.50	-502.96	-5.61	1.30	208.72	16.34	0.42
4	1		121.25	-456.54	-8.75	-1.91	208.23	15.37	-0.25
4	1		160.00	-347.77	-21.61	-5.01	108.09	14.67	-1.09
4	2		-180.00	-732.73	-5.94	21.21	139.38	-9.74	-0.31
4	2		-145.00	-729.29	-4.95	21.21	156.22	-2.38	-0.32
4	2		-95.00	-688.10	-3.92	17.07	182.86	5.84	-0.04
4	2		-45.00	-642.58	-3.78	12.45	204.64	11.59	0.34
4	2		5.00	-599.63	-3.98	8.75	220.56	15.73	0.63
4	2		43.75	-561.11	-4.49	5.65	227.90	17.90	0.72
4	2		82.50	-524.35	-6.13	2.29	231.79	18.95	0.60
4	2		121.25	-477.36	-9.39	-1.45	230.51	18.19	-0.10
4	2		160.00	-363.49	-22.97	-5.85	123.13	17.30	-1.01
4	3		-180.00	-889.45	-5.44	24.06	82.95	-11.87	-0.36
4	3		-145.00	-885.26	-4.76	24.06	99.78	-3.64	-0.37
4	3		-95.00	-832.02	-3.81	19.23	127.52	5.44	-0.04
4	3		-45.00	-772.47	-3.72	13.75	150.13	11.64	0.40
4	3		5.00	-715.63	-4.01	9.24	166.51	15.94	0.73
4	3		43.75	-664.58	-4.70	5.52	174.39	18.06	0.82
4	3		82.50	-616.22	-6.76	1.74	179.72	18.95	0.62
4	3		121.25	-556.76	-11.19	-2.19	181.97	17.95	-0.36
4	3		160.00	-426.76	-26.65	-6.15	69.87	16.97	-1.59
4	4		-180.00	-891.63	-5.53	24.16	84.31	-11.88	-0.36
4	4		-145.00	-887.42	-4.84	24.16	101.31	-3.61	-0.37
4	4		-95.00	-834.17	-3.88	19.31	129.30	5.50	-0.04
4	4		-45.00	-774.64	-3.79	13.81	152.08	11.72	0.41
4	4		5.00	-717.82	-4.09	9.28	168.56	16.05	0.74
4	4		43.75	-666.81	-4.78	5.55	176.44	18.18	0.83
4	4		82.50	-618.46	-6.85	1.74	181.74	19.07	0.64
4	4		121.25	-558.95	-11.29	-2.20	183.91	18.06	-0.35
4	4		160.00	-428.45	-26.84	-6.18	71.14	17.08	-1.59
4	5		-180.00	-944.20	-6.73	28.81	122.08	-14.77	-0.46
4	5		-145.00	-939.58	-5.78	28.81	143.44	-4.84	-0.48
4	5		-95.00	-885.62	-4.66	23.44	177.55	6.36	-0.04
4	5		-45.00	-825.74	-4.59	17.41	204.90	14.35	0.58
4	5		5.00	-769.02	-4.96	12.55	224.09	20.29	1.05
4	5		43.75	-718.16	-5.75	8.54	232.56	23.59	1.22
4	5		82.50	-669.71	-8.05	4.21	237.39	25.49	1.07
4	5		121.25	-608.80	-12.78	-1.04	237.65	25.00	0.02
4	5		160.00	-466.07	-30.06	-8.23	107.48	23.54	-1.39
4	6		-180.00	-946.38	-6.81	28.91	123.43	-14.78	-0.46
4	6		-145.00	-941.75	-5.86	28.91	144.97	-4.81	-0.48
4	6		-95.00	-887.78	-4.73	23.51	179.33	6.42	-0.04
4	6		-45.00	-827.91	-4.66	17.47	206.85	14.44	0.58
4	6		5.00	-771.21	-5.03	12.59	226.13	20.40	1.06
4	6		43.75	-720.38	-5.83	8.57	234.61	23.70	1.24
4	6		82.50	-671.95	-8.14	4.21	239.40	25.61	1.09
4	6		121.25	-611.00	-12.89	-1.05	239.60	25.11	0.03
4	6		160.00	-467.75	-30.25	-8.26	108.75	23.65	-1.39
4	7		-180.00	-618.97	-3.19	17.09	72.60	-8.62	-0.22
4	7		-145.00	-615.44	-2.67	17.09	83.39	-2.85	-0.23
4	7		-95.00	-574.18	-2.00	13.65	101.45	3.47	-0.03
4	7		-45.00	-528.11	-1.91	9.63	116.26	7.70	0.24
4	7		5.00	-484.21	-2.07	6.18	127.10	10.53	0.45
4	7		43.75	-444.96	-2.46	3.35	132.34	11.81	0.51
4	7		82.50	-408.12	-3.72	0.63	135.62	12.22	0.40
4	7		121.25	-364.02	-6.42	-1.98	136.46	11.38	-0.18
4	7		160.00	-274.37	-16.38	-4.28	63.57	10.65	-0.92
4	8		-180.00	-621.15	-3.28	17.18	73.96	-8.63	-0.22
4	8		-145.00	-617.60	-2.75	17.18	84.92	-2.83	-0.23
4	8		-95.00	-576.34	-2.08	13.73	103.23	3.53	-0.03
4	8		-45.00	-530.27	-1.99	9.69	118.21	7.79	0.25
4	8		5.00	-486.40	-2.14	6.22	129.14	10.64	0.46

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	8	43.75	-447.18	-2.54	3.38	134.39	11.92	0.52	
4	8	82.50	-410.36	-3.81	0.64	137.64	12.34	0.41	
4	8	121.25	-366.21	-6.53	-2.00	138.41	11.49	-0.17	
4	8	160.00	-276.05	-16.56	-4.31	64.85	10.76	-0.92	
4	9	-180.00	-673.72	-4.48	21.84	111.73	-11.51	-0.32	
4	9	-145.00	-669.76	-3.69	21.84	127.05	-4.05	-0.34	
4	9	-95.00	-627.78	-2.85	17.86	151.48	4.39	-0.03	
4	9	-45.00	-581.38	-2.78	13.29	171.03	10.42	0.42	
4	9	5.00	-537.60	-3.01	9.50	184.67	14.88	0.77	
4	9	43.75	-498.54	-3.51	6.37	190.51	17.33	0.91	
4	9	82.50	-461.61	-5.01	3.11	193.29	18.76	0.85	
4	9	121.25	-416.06	-8.01	-0.83	192.15	18.43	0.20	
4	9	160.00	-313.67	-19.78	-6.36	101.18	17.22	-0.72	
4	10	-180.00	-675.89	-4.56	21.93	113.08	-11.53	-0.33	
4	10	-145.00	-671.93	-3.77	21.93	128.57	-4.03	-0.34	
4	10	-95.00	-629.94	-2.93	17.93	153.26	4.45	-0.03	
4	10	-45.00	-583.54	-2.86	13.34	172.98	10.51	0.43	
4	10	5.00	-539.79	-3.09	9.54	186.72	14.99	0.78	
4	10	43.75	-500.76	-3.59	6.40	192.56	17.45	0.93	
4	10	82.50	-463.85	-5.10	3.11	195.31	18.88	0.86	
4	10	121.25	-418.25	-8.12	-0.84	194.10	18.54	0.21	
4	10	160.00	-315.35	-19.97	-6.39	102.45	17.32	-0.72	
4	11	-180.00	-893.81	-5.61	24.25	85.66	-11.89	-0.36	
4	11	-145.00	-889.59	-4.92	24.25	102.84	-3.59	-0.38	
4	11	-95.00	-836.33	-3.96	19.38	131.07	5.56	-0.04	
4	11	-45.00	-776.80	-3.87	13.87	154.04	11.81	0.42	
4	11	5.00	-720.02	-4.16	9.32	170.60	16.16	0.75	
4	11	43.75	-669.03	-4.86	5.57	178.50	18.29	0.85	
4	11	82.50	-620.70	-6.94	1.74	183.76	19.19	0.66	
4	11	121.25	-561.14	-11.40	-2.22	185.86	18.17	-0.34	
4	11	160.00	-430.13	-27.03	-6.21	72.41	17.18	-1.60	
4	12	-180.00	-927.78	-6.34	27.39	110.34	-13.90	-0.43	
4	12	-145.00	-923.28	-5.47	27.39	130.34	-4.48	-0.44	
4	12	-95.00	-869.54	-4.40	22.18	162.55	6.09	-0.04	
4	12	-45.00	-809.76	-4.33	16.31	188.47	13.54	0.52	
4	12	5.00	-753.00	-4.67	11.56	206.81	18.99	0.95	
4	12	43.75	-702.09	-5.43	7.64	215.11	21.93	1.10	
4	12	82.50	-653.66	-7.66	3.46	220.09	23.53	0.94	
4	12	121.25	-593.19	-12.30	-1.38	220.95	22.89	-0.09	
4	12	160.00	-454.28	-29.04	-7.61	96.20	21.57	-1.45	
4	13	-180.00	-932.13	-6.51	27.58	113.05	-13.92	-0.43	
4	13	-145.00	-927.62	-5.63	27.58	133.40	-4.43	-0.45	
4	13	-95.00	-873.85	-4.55	22.33	166.09	6.21	-0.04	
4	13	-45.00	-814.09	-4.48	16.42	192.37	13.72	0.54	
4	13	5.00	-757.39	-4.83	11.64	210.91	19.20	0.98	
4	13	43.75	-706.54	-5.59	7.68	219.21	22.16	1.13	
4	13	82.50	-658.14	-7.84	3.47	224.12	23.77	0.97	
4	13	121.25	-597.57	-12.52	-1.41	224.84	23.10	-0.07	
4	13	160.00	-457.64	-29.41	-7.67	98.74	21.78	-1.45	
4	14	-180.00	-623.32	-3.36	17.27	75.31	-8.64	-0.23	
4	14	-145.00	-619.77	-2.83	17.27	86.45	-2.80	-0.24	
4	14	-95.00	-578.49	-2.15	13.80	105.00	3.59	-0.03	
4	14	-45.00	-532.44	-2.06	9.75	120.16	7.88	0.26	
4	14	5.00	-488.60	-2.22	6.26	131.19	10.74	0.47	
4	14	43.75	-449.41	-2.62	3.40	136.44	12.04	0.54	
4	14	82.50	-412.60	-3.90	0.64	139.66	12.46	0.43	
4	14	121.25	-368.40	-6.64	-2.01	140.36	11.60	-0.16	
4	14	160.00	-277.74	-16.75	-4.35	66.12	10.86	-0.93	
4	15	-180.00	-657.29	-4.09	20.41	99.99	-10.65	-0.29	
4	15	-145.00	-653.47	-3.38	20.41	113.95	-3.69	-0.30	
4	15	-95.00	-611.70	-2.60	16.60	136.48	4.11	-0.03	
4	15	-45.00	-565.40	-2.52	12.19	154.60	9.60	0.37	
4	15	5.00	-521.58	-2.73	8.50	167.40	13.57	0.67	
4	15	43.75	-482.46	-3.20	5.47	173.05	15.67	0.79	
4	15	82.50	-445.56	-4.62	2.36	175.99	16.80	0.71	
4	15	121.25	-400.45	-7.53	-1.17	175.44	16.31	0.08	
4	15	160.00	-301.88	-18.76	-5.74	89.90	15.25	-0.78	
4	16	-180.00	-661.64	-4.26	20.60	102.70	-10.67	-0.30	
4	16	-145.00	-657.80	-3.54	20.60	117.01	-3.64	-0.31	
4	16	-95.00	-616.01	-2.74	16.75	140.02	4.23	-0.03	
4	16	-45.00	-569.72	-2.67	12.30	158.50	9.78	0.38	
4	16	5.00	-525.97	-2.88	8.58	171.49	13.79	0.70	
4	16	43.75	-486.91	-3.36	5.51	177.16	15.91	0.82	
4	16	82.50	-450.04	-4.80	2.37	180.02	17.03	0.74	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	16	121.25	-404.83	-7.75	-1.21	179.34	16.53	0.10	
4	16	160.00	-305.25	-19.14	-5.80	92.44	15.46	-0.78	
4	17	-180.00	-972.73	-7.57	27.58	167.21	-12.27	-0.38	
4	17	-145.00	-968.18	-6.37	27.58	188.51	-2.74	-0.39	
4	17	-95.00	-914.51	-5.03	22.08	222.49	7.81	-0.06	
4	17	-45.00	-855.34	-4.83	15.84	250.50	15.04	0.39	
4	17	5.00	-799.74	-5.08	10.71	271.27	20.06	0.70	
4	17	43.75	-749.88	-5.76	6.38	281.20	22.49	0.78	
4	17	82.50	-702.15	-7.97	1.84	286.96	23.42	0.58	
4	17	121.25	-640.72	-12.50	-2.79	286.42	22.04	-0.39	
4	17	160.00	-491.08	-30.78	-7.33	144.92	20.97	-1.59	
4	18	-180.00	-974.91	-7.66	27.68	168.57	-12.28	-0.39	
4	18	-145.00	-970.35	-6.45	27.68	190.04	-2.72	-0.40	
4	18	-95.00	-916.67	-5.10	22.16	224.26	7.87	-0.06	
4	18	-45.00	-857.50	-4.91	15.90	252.46	15.13	0.39	
4	18	5.00	-801.93	-5.15	10.74	273.32	20.17	0.71	
4	18	43.75	-752.10	-5.84	6.41	283.25	22.61	0.80	
4	18	82.50	-704.39	-8.06	1.85	288.97	23.54	0.60	
4	18	121.25	-642.91	-12.61	-2.81	288.37	22.15	-0.38	
4	18	160.00	-492.77	-30.96	-7.37	146.20	21.07	-1.59	
4	19	-180.00	-1011.05	-8.47	30.91	194.60	-14.30	-0.45	
4	19	-145.00	-1006.21	-7.09	30.91	219.07	-3.58	-0.47	
4	19	-95.00	-952.03	-5.62	25.03	257.51	8.45	-0.05	
4	19	-45.00	-892.63	-5.44	18.40	288.84	16.94	0.51	
4	19	5.00	-837.11	-5.74	13.02	311.58	23.11	0.93	
4	19	43.75	-787.38	-6.49	8.50	321.92	26.36	1.06	
4	19	82.50	-739.59	-8.87	3.57	327.32	28.00	0.90	
4	19	121.25	-677.15	-13.61	-1.99	325.40	26.97	-0.12	
4	19	160.00	-518.60	-33.16	-8.79	171.25	25.56	-1.45	
4	20	-180.00	-1013.23	-8.56	31.00	195.95	-14.31	-0.46	
4	20	-145.00	-1008.38	-7.17	31.00	220.60	-3.56	-0.47	
4	20	-95.00	-954.19	-5.70	25.11	259.28	8.52	-0.05	
4	20	-45.00	-894.79	-5.52	18.46	290.79	17.03	0.52	
4	20	5.00	-839.31	-5.82	13.06	313.62	23.21	0.94	
4	20	43.75	-789.61	-6.57	8.52	323.97	26.48	1.08	
4	20	82.50	-741.83	-8.96	3.58	329.34	28.12	0.91	
4	20	121.25	-679.34	-13.72	-2.00	327.35	27.08	-0.11	
4	20	160.00	-520.28	-33.35	-8.82	172.52	25.67	-1.45	
4	21	-180.00	-702.25	-5.32	20.61	156.86	-9.02	-0.25	
4	21	-145.00	-698.37	-4.28	20.61	172.12	-1.96	-0.25	
4	21	-95.00	-656.67	-3.22	16.50	196.42	5.83	-0.05	
4	21	-45.00	-610.97	-3.03	11.72	216.63	11.10	0.23	
4	21	5.00	-568.32	-3.13	7.65	231.86	14.65	0.42	
4	21	43.75	-530.26	-3.52	4.21	239.14	16.24	0.47	
4	21	82.50	-494.04	-4.93	0.74	242.86	16.69	0.36	
4	21	121.25	-447.98	-7.73	-2.59	240.92	15.47	-0.21	
4	21	160.00	-338.69	-20.50	-5.47	138.63	14.65	-0.92	
4	22	-180.00	-704.42	-5.40	20.70	158.22	-9.03	-0.25	
4	22	-145.00	-700.53	-4.36	20.70	173.65	-1.94	-0.26	
4	22	-95.00	-658.83	-3.30	16.58	198.19	5.90	-0.04	
4	22	-45.00	-613.14	-3.10	11.78	218.58	11.19	0.24	
4	22	5.00	-570.51	-3.21	7.69	233.90	14.75	0.44	
4	22	43.75	-532.48	-3.60	4.24	241.19	16.36	0.49	
4	22	82.50	-496.29	-5.02	0.75	244.88	16.81	0.37	
4	22	121.25	-450.17	-7.84	-2.60	242.86	15.57	-0.20	
4	22	160.00	-340.37	-20.69	-5.50	139.90	14.75	-0.92	
4	23	-180.00	-740.57	-6.22	23.93	184.25	-11.04	-0.32	
4	23	-145.00	-736.39	-5.00	23.93	202.68	-2.80	-0.33	
4	23	-95.00	-694.20	-3.82	19.45	231.44	6.48	-0.04	
4	23	-45.00	-648.26	-3.64	14.28	254.97	13.01	0.35	
4	23	5.00	-605.69	-3.79	9.97	272.16	17.69	0.65	
4	23	43.75	-567.76	-4.26	6.33	279.86	20.11	0.76	
4	23	82.50	-531.49	-5.83	2.47	283.22	21.27	0.67	
4	23	121.25	-484.41	-8.85	-1.78	279.90	20.40	0.06	
4	23	160.00	-366.20	-22.88	-6.92	164.95	19.24	-0.78	
4	24	-180.00	-742.74	-6.30	24.02	185.60	-11.06	-0.32	
4	24	-145.00	-738.56	-5.08	24.02	204.21	-2.78	-0.33	
4	24	-95.00	-696.35	-3.89	19.52	233.21	6.54	-0.04	
4	24	-45.00	-650.43	-3.71	14.34	256.92	13.10	0.36	
4	24	5.00	-607.88	-3.87	10.01	274.20	17.80	0.66	
4	24	43.75	-569.99	-4.34	6.35	281.91	20.22	0.77	
4	24	82.50	-533.73	-5.92	2.48	285.24	21.39	0.69	
4	24	121.25	-486.60	-8.95	-1.80	281.84	20.51	0.07	
4	24	160.00	-367.88	-23.07	-6.95	166.23	19.35	-0.78	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	25	-180.00	-890.20	-5.08	25.40	83.06	-12.72	-0.36	
4	25	-145.00	-885.54	-4.42	25.40	99.84	-4.10	-0.37	
4	25	-95.00	-831.62	-3.47	20.40	127.55	5.41	-0.05	
4	25	-45.00	-771.67	-3.37	14.58	150.13	11.89	0.40	
4	25	5.00	-714.87	-3.66	9.62	166.47	16.32	0.72	
4	25	43.75	-663.99	-4.34	5.51	174.29	18.43	0.81	
4	25	82.50	-615.77	-6.40	1.45	179.54	19.24	0.62	
4	25	121.25	-556.43	-10.86	-2.63	181.75	18.10	-0.36	
4	25	160.00	-426.70	-26.43	-6.60	69.82	16.97	-1.60	
4	26	-180.00	-892.38	-5.16	25.50	84.41	-12.73	-0.36	
4	26	-145.00	-887.71	-4.49	25.50	101.37	-4.08	-0.37	
4	26	-95.00	-833.78	-3.54	20.47	129.32	5.47	-0.05	
4	26	-45.00	-773.84	-3.44	14.64	152.09	11.98	0.40	
4	26	5.00	-717.06	-3.73	9.66	168.51	16.43	0.73	
4	26	43.75	-666.22	-4.42	5.53	176.34	18.54	0.83	
4	26	82.50	-618.01	-6.49	1.45	181.56	19.35	0.64	
4	26	121.25	-558.63	-10.97	-2.65	183.70	18.21	-0.35	
4	26	160.00	-428.38	-26.62	-6.63	71.10	17.08	-1.60	
4	27	-180.00	-928.53	-5.98	28.73	110.45	-14.75	-0.43	
4	27	-145.00	-923.57	-5.13	28.73	130.40	-4.94	-0.44	
4	27	-95.00	-869.14	-4.06	23.34	162.57	6.06	-0.04	
4	27	-45.00	-808.96	-3.98	17.14	188.47	13.79	0.52	
4	27	5.00	-752.24	-4.32	11.94	206.77	19.37	0.95	
4	27	43.75	-701.50	-5.07	7.62	215.01	22.29	1.10	
4	27	82.50	-653.21	-7.30	3.18	219.91	23.81	0.93	
4	27	121.25	-592.86	-11.98	-1.83	220.73	23.03	-0.10	
4	27	160.00	-454.21	-28.82	-8.05	96.15	21.57	-1.45	
4	28	-180.00	-930.70	-6.06	28.82	111.80	-14.76	-0.43	
4	28	-145.00	-925.74	-5.21	28.82	131.93	-4.92	-0.45	
4	28	-95.00	-871.30	-4.13	23.42	164.34	6.12	-0.04	
4	28	-45.00	-811.12	-4.05	17.20	190.42	13.88	0.53	
4	28	5.00	-754.43	-4.40	11.98	208.81	19.47	0.96	
4	28	43.75	-703.72	-5.15	7.65	217.06	22.41	1.11	
4	28	82.50	-655.46	-7.39	3.18	221.93	23.93	0.95	
4	28	121.25	-595.06	-12.09	-1.84	222.68	23.14	-0.09	
4	28	160.00	-455.89	-29.01	-8.08	97.42	21.68	-1.45	
4	29	-180.00	-619.72	-2.82	18.42	72.71	-9.46	-0.22	
4	29	-145.00	-615.73	-2.32	18.42	83.45	-3.31	-0.23	
4	29	-95.00	-573.79	-1.66	14.82	101.48	3.44	-0.03	
4	29	-45.00	-527.31	-1.56	10.46	116.26	7.96	0.24	
4	29	5.00	-483.44	-1.71	6.56	127.05	10.91	0.44	
4	29	43.75	-444.37	-2.10	3.34	132.23	12.17	0.50	
4	29	82.50	-407.67	-3.36	0.35	135.45	12.50	0.39	
4	29	121.25	-363.69	-6.10	-2.42	136.25	11.53	-0.19	
4	29	160.00	-274.30	-16.16	-4.73	63.53	10.65	-0.93	
4	30	-180.00	-621.89	-2.91	18.52	74.07	-9.48	-0.22	
4	30	-145.00	-617.89	-2.40	18.52	84.97	-3.29	-0.23	
4	30	-95.00	-575.94	-1.73	14.89	103.25	3.50	-0.03	
4	30	-45.00	-529.47	-1.64	10.52	118.21	8.04	0.25	
4	30	5.00	-485.64	-1.79	6.60	129.10	11.01	0.46	
4	30	43.75	-446.60	-2.18	3.36	134.28	12.29	0.52	
4	30	82.50	-409.91	-3.45	0.35	137.46	12.62	0.41	
4	30	121.25	-365.88	-6.21	-2.44	138.19	11.63	-0.18	
4	30	160.00	-275.98	-16.35	-4.76	64.80	10.76	-0.93	
4	31	-180.00	-658.04	-3.73	21.75	100.10	-11.49	-0.29	
4	31	-145.00	-653.75	-3.04	21.75	114.00	-4.15	-0.31	
4	31	-95.00	-611.31	-2.26	17.76	136.50	4.08	-0.03	
4	31	-45.00	-564.60	-2.17	13.02	154.60	9.86	0.36	
4	31	5.00	-520.81	-2.37	8.88	167.35	13.95	0.67	
4	31	43.75	-481.88	-2.84	5.45	172.95	16.04	0.79	
4	31	82.50	-445.11	-4.26	2.08	175.81	17.08	0.71	
4	31	121.25	-400.12	-7.21	-1.62	175.23	16.46	0.08	
4	31	160.00	-301.81	-18.54	-6.18	89.85	15.25	-0.78	
4	32	-180.00	-660.22	-3.81	21.84	101.45	-11.50	-0.30	
4	32	-145.00	-655.92	-3.12	21.84	115.53	-4.13	-0.31	
4	32	-95.00	-613.46	-2.33	17.84	138.27	4.14	-0.03	
4	32	-45.00	-566.76	-2.25	13.07	156.55	9.95	0.37	
4	32	5.00	-523.01	-2.45	8.92	169.40	14.06	0.68	
4	32	43.75	-484.10	-2.92	5.48	175.00	16.16	0.80	
4	32	82.50	-447.35	-4.35	2.08	177.83	17.20	0.72	
4	32	121.25	-402.31	-7.32	-1.64	177.17	16.57	0.09	
4	32	160.00	-303.50	-18.73	-6.22	91.13	15.35	-0.78	
4	33	-180.00	-1642.10	-241.62	81.13	-0.32	-105.84	-0.15	
4	33	-145.00	-1638.89	-240.98	81.13	13.53	-99.42	-0.29	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	33		-95.00	-1547.50	-250.04	55.68	81.27	-73.24	2.14
4	33		-45.00	-1422.17	-269.44	36.03	160.00	-53.99	0.96
4	33		5.00	-1287.53	-292.07	25.65	245.54	-41.20	-0.87
4	33		43.75	-1161.80	-286.69	17.48	328.92	-34.00	-0.30
4	33		82.50	-1034.81	-302.44	11.74	434.03	-30.37	-0.91
4	33		121.25	-931.75	-302.31	15.33	569.20	-27.24	-0.20
4	33		160.00	-682.99	-384.49	38.12	373.89	-17.50	-0.21
4	34		-180.00	-1583.80	156.49	86.00	1018.82	-115.76	0.82
...									
4	96		160.00	-159.58	972.26	-14.25	-73.73	20.92	17.29
M	S			N memb.	V memb.	V orto	M memb.	M orto	T
				-1643.89	-1083.12	-52.67	-1870.39	-115.76	-30.55
				292.67	1042.68	86.00	2050.66	103.35	28.54

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	kN	kN	kN	kN m	kN m	kN m
5	1		-180.00	-307.34	-17.21	46.81	175.80	-29.69	-0.95
5	1		-145.00	-306.01	-20.81	46.81	178.58	-11.46	-1.85
5	1		-95.00	-281.71	-19.95	26.50	175.13	1.25	-2.47
5	1		-45.00	-253.06	-15.20	6.93	165.46	3.94	2.61
5	1		5.00	-223.96	-10.34	-0.49	73.35	2.48	6.24
5	1		43.75	-197.67	-9.56	-1.87	68.35	1.46	5.53
5	1		82.50	-170.76	-11.09	-1.35	49.58	0.91	4.73
5	1		121.25	-134.80	-14.00	-2.04	17.69	0.89	2.76
5	1		160.00	-73.78	-1.95	-2.20	1.98	-0.40	-1.15
5	2		-180.00	-315.73	-17.47	46.48	184.63	-29.48	-0.94
5	2		-145.00	-314.34	-21.23	46.48	187.55	-11.37	-1.79
5	2		-95.00	-289.86	-20.47	26.22	183.85	1.19	-2.36
5	2		-45.00	-261.03	-15.71	6.71	173.51	3.77	2.79
5	2		5.00	-231.52	-10.75	-0.61	78.12	2.22	6.42
5	2		43.75	-204.65	-9.97	-1.94	72.84	1.17	5.63
5	2		82.50	-176.99	-11.60	-1.35	53.07	0.62	4.69
5	2		121.25	-139.80	-14.69	-1.96	19.43	0.68	2.45
5	2		160.00	-76.19	-1.98	-1.94	2.52	-0.48	-1.51
5	3		-180.00	-398.65	-24.56	68.14	216.64	-43.48	-1.39
5	3		-145.00	-396.72	-29.17	68.14	220.27	-17.06	-2.72
5	3		-95.00	-364.66	-27.64	39.45	216.80	1.91	-3.66
5	3		-45.00	-326.72	-20.63	11.18	206.35	6.40	3.88
5	3		5.00	-288.54	-13.71	-0.50	89.69	4.42	9.30
5	3		43.75	-254.64	-12.43	-3.05	84.43	2.74	8.31
5	3		82.50	-220.31	-14.21	-2.49	61.51	1.71	7.25
5	3		121.25	-174.96	-17.67	-3.38	21.76	1.36	4.65
5	3		160.00	-98.33	-2.41	-3.38	2.13	-0.56	-1.15
5	4		-180.00	-400.02	-24.57	68.13	218.02	-43.47	-1.39
5	4		-145.00	-398.08	-29.21	68.13	221.68	-17.06	-2.72
5	4		-95.00	-365.98	-27.69	39.44	218.19	1.90	-3.66
5	4		-45.00	-328.01	-20.68	11.17	207.65	6.39	3.88
5	4		5.00	-289.78	-13.75	-0.49	90.43	4.42	9.30
5	4		43.75	-255.80	-12.47	-3.04	85.08	2.74	8.32
5	4		82.50	-221.36	-14.27	-2.48	61.98	1.71	7.25
5	4		121.25	-175.81	-17.76	-3.38	21.95	1.37	4.64
5	4		160.00	-98.75	-2.42	-3.40	2.17	-0.56	-1.16
5	5		-180.00	-419.61	-25.21	67.32	238.72	-42.96	-1.34
5	5		-145.00	-417.54	-30.23	67.32	242.70	-16.84	-2.58
5	5		-95.00	-385.02	-28.95	38.74	238.61	1.76	-3.38
5	5		-45.00	-346.64	-21.92	10.62	226.49	5.96	4.32
5	5		5.00	-307.45	-14.74	-0.79	101.61	3.78	9.75
5	5		43.75	-272.08	-13.46	-3.22	95.66	2.01	8.56
5	5		82.50	-235.90	-15.47	-2.48	70.25	0.98	7.14
5	5		121.25	-187.46	-19.38	-3.16	26.11	0.83	3.88
5	5		160.00	-104.38	-2.48	-2.71	3.48	-0.78	-2.05
5	6		-180.00	-420.97	-25.22	67.31	240.10	-42.95	-1.35
5	6		-145.00	-418.89	-30.26	67.31	244.10	-16.84	-2.59
5	6		-95.00	-386.35	-29.00	38.73	240.00	1.76	-3.38
5	6		-45.00	-347.93	-21.97	10.61	227.78	5.96	4.32
5	6		5.00	-308.68	-14.78	-0.78	102.35	3.77	9.76

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
5	6	43.75	-273.24	-13.50	-3.22	96.31	2.01	8.57	
5	6	82.50	-236.95	-15.53	-2.47	70.72	0.98	7.15	
5	6	121.25	-188.31	-19.48	-3.16	26.29	0.84	3.87	
5	6	160.00	-104.79	-2.49	-2.72	3.52	-0.78	-2.06	
5	7	-180.00	-280.47	-21.57	59.65	147.37	-39.04	-1.17	
5	7	-145.00	-279.23	-24.97	59.65	148.19	-16.01	-2.44	
5	7	-95.00	-255.41	-23.49	35.31	143.17	1.02	-3.48	
5	7	-45.00	-226.90	-17.01	10.92	134.35	5.54	3.07	
5	7	5.00	-197.72	-10.65	0.09	55.25	4.12	7.96	
5	7	43.75	-171.88	-9.18	-2.57	54.17	2.63	7.13	
5	7	82.50	-146.51	-10.07	-2.30	40.04	1.61	6.30	
5	7	121.25	-113.99	-12.17	-2.73	14.29	1.06	4.46	
5	7	160.00	-61.15	-1.67	-2.35	1.42	-0.41	-0.25	
5	8	-180.00	-281.83	-21.58	59.63	148.75	-39.03	-1.17	
5	8	-145.00	-280.59	-25.00	59.63	149.60	-16.01	-2.45	
5	8	-95.00	-256.73	-23.53	35.30	144.56	1.01	-3.49	
5	8	-45.00	-228.19	-17.06	10.91	135.64	5.53	3.07	
5	8	5.00	-198.96	-10.69	0.09	55.98	4.12	7.96	
5	8	43.75	-173.04	-9.23	-2.56	54.83	2.63	7.13	
5	8	82.50	-147.56	-10.13	-2.29	40.51	1.61	6.30	
5	8	121.25	-114.84	-12.26	-2.73	14.48	1.07	4.46	
5	8	160.00	-61.57	-1.68	-2.36	1.46	-0.41	-0.26	
5	9	-180.00	-301.43	-22.22	58.83	169.46	-38.52	-1.13	
5	9	-145.00	-300.05	-26.02	58.83	170.61	-15.79	-2.31	
5	9	-95.00	-275.77	-24.80	34.60	164.98	0.87	-3.20	
5	9	-45.00	-246.82	-18.30	10.36	154.48	5.11	3.52	
5	9	5.00	-216.63	-11.67	-0.20	67.16	3.48	8.41	
5	9	43.75	-189.32	-10.21	-2.74	65.40	1.90	7.38	
5	9	82.50	-162.10	-11.33	-2.28	48.77	0.88	6.19	
5	9	121.25	-126.49	-13.88	-2.51	18.64	0.53	3.69	
5	9	160.00	-67.20	-1.74	-1.67	2.77	-0.62	-1.15	
5	10	-180.00	-302.79	-22.23	58.81	170.83	-38.51	-1.13	
5	10	-145.00	-301.40	-26.05	58.81	172.02	-15.79	-2.31	
5	10	-95.00	-277.09	-24.85	34.59	166.37	0.87	-3.20	
5	10	-45.00	-248.11	-18.35	10.36	155.77	5.10	3.52	
5	10	5.00	-217.86	-11.71	-0.20	67.90	3.48	8.42	
5	10	43.75	-190.48	-10.25	-2.74	66.06	1.89	7.38	
5	10	82.50	-163.15	-11.39	-2.27	49.25	0.88	6.20	
5	10	121.25	-127.34	-13.98	-2.51	18.82	0.54	3.69	
5	10	160.00	-67.61	-1.76	-1.69	2.80	-0.62	-1.16	
5	11	-180.00	-401.38	-24.59	68.11	219.40	-43.47	-1.39	
5	11	-145.00	-399.43	-29.24	68.11	223.09	-17.06	-2.72	
5	11	-95.00	-367.30	-27.73	39.43	219.57	1.90	-3.66	
5	11	-45.00	-329.30	-20.73	11.16	208.94	6.38	3.88	
5	11	5.00	-291.01	-13.79	-0.49	91.17	4.41	9.31	
5	11	43.75	-256.96	-12.52	-3.03	85.74	2.74	8.32	
5	11	82.50	-222.41	-14.33	-2.47	62.45	1.71	7.26	
5	11	121.25	-176.66	-17.86	-3.38	22.13	1.38	4.64	
5	11	160.00	-99.16	-2.43	-3.41	2.20	-0.56	-1.17	
5	12	-180.00	-413.32	-25.01	67.57	232.10	-43.12	-1.36	
5	12	-145.00	-411.29	-29.91	67.57	235.97	-16.91	-2.62	
5	12	-95.00	-378.91	-28.56	38.95	232.07	1.81	-3.46	
5	12	-45.00	-340.66	-21.53	10.78	220.45	6.09	4.19	
5	12	5.00	-301.77	-14.43	-0.70	98.04	3.97	9.62	
5	12	43.75	-266.85	-13.15	-3.17	92.29	2.23	8.49	
5	12	82.50	-231.22	-15.09	-2.49	67.62	1.20	7.17	
5	12	121.25	-183.71	-18.87	-3.23	24.80	0.99	4.11	
5	12	160.00	-102.56	-2.46	-2.91	3.08	-0.71	-1.78	
5	13	-180.00	-416.05	-25.04	67.53	234.86	-43.10	-1.36	
5	13	-145.00	-414.00	-29.98	67.53	238.78	-16.91	-2.63	
5	13	-95.00	-381.56	-28.66	38.93	234.84	1.80	-3.46	
5	13	-45.00	-343.25	-21.63	10.77	223.03	6.08	4.19	
5	13	5.00	-304.25	-14.51	-0.69	99.51	3.96	9.62	
5	13	43.75	-269.17	-13.24	-3.16	93.60	2.23	8.50	
5	13	82.50	-233.32	-15.21	-2.47	68.57	1.20	7.18	
5	13	121.25	-185.41	-19.06	-3.23	25.17	1.01	4.10	
5	13	160.00	-103.40	-2.48	-2.94	3.15	-0.71	-1.80	
5	14	-180.00	-283.20	-21.60	59.61	150.13	-39.02	-1.17	
5	14	-145.00	-281.94	-25.04	59.61	151.00	-16.01	-2.45	
5	14	-95.00	-258.05	-23.58	35.29	145.94	1.01	-3.49	
5	14	-45.00	-229.48	-17.11	10.91	136.93	5.53	3.08	
5	14	5.00	-200.19	-10.73	0.10	56.72	4.11	7.97	
5	14	43.75	-174.20	-9.27	-2.55	55.48	2.62	7.14	
5	14	82.50	-148.61	-10.20	-2.28	40.98	1.61	6.30	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
5	14	121.25	-115.69	-12.36	-2.73	14.66	1.08	4.45	
5	14	160.00	-61.98	-1.69	-2.38	1.49	-0.41	-0.28	
5	15	-180.00	-295.14	-22.02	59.07	162.83	-38.67	-1.14	
5	15	-145.00	-293.80	-25.70	59.07	163.89	-15.86	-2.35	
5	15	-95.00	-269.66	-24.41	34.81	158.44	0.92	-3.29	
5	15	-45.00	-240.84	-17.91	10.53	148.44	5.24	3.38	
5	15	5.00	-210.95	-11.37	-0.11	63.59	3.68	8.28	
5	15	43.75	-184.09	-9.90	-2.69	62.03	2.12	7.30	
5	15	82.50	-157.42	-10.95	-2.29	46.15	1.10	6.22	
5	15	121.25	-122.74	-13.37	-2.58	17.33	0.69	3.92	
5	15	160.00	-65.38	-1.72	-1.87	2.36	-0.56	-0.88	
5	16	-180.00	-297.86	-22.05	59.04	165.59	-38.66	-1.14	
5	16	-145.00	-296.51	-25.77	59.04	166.70	-15.86	-2.35	
5	16	-95.00	-272.30	-24.50	34.79	161.21	0.91	-3.29	
5	16	-45.00	-243.43	-18.01	10.52	151.02	5.22	3.39	
5	16	5.00	-213.43	-11.45	-0.11	65.06	3.66	8.28	
5	16	43.75	-186.41	-9.99	-2.68	63.35	2.11	7.31	
5	16	82.50	-159.52	-11.08	-2.27	47.10	1.10	6.23	
5	16	121.25	-124.44	-13.56	-2.58	17.70	0.71	3.92	
5	16	160.00	-66.22	-1.74	-1.91	2.43	-0.56	-0.91	
5	17	-180.00	-420.22	-25.68	68.12	242.89	-44.08	-1.39	
5	17	-145.00	-418.44	-30.79	68.12	246.11	-17.66	-2.76	
5	17	-95.00	-386.47	-29.60	39.41	240.47	1.33	-3.80	
5	17	-45.00	-348.61	-22.50	11.18	226.72	5.86	3.80	
5	17	5.00	-309.58	-15.20	-0.25	100.15	3.97	9.36	
5	17	43.75	-274.08	-13.91	-2.75	93.97	2.41	8.34	
5	17	82.50	-237.68	-15.97	-2.12	68.19	1.52	7.22	
5	17	121.25	-188.77	-19.89	-3.08	23.97	1.38	4.46	
5	17	160.00	-104.88	-2.82	-3.24	2.44	-0.55	-1.36	
5	18	-180.00	-421.58	-25.70	68.10	244.27	-44.07	-1.39	
5	18	-145.00	-419.79	-30.83	68.10	247.52	-17.65	-2.76	
5	18	-95.00	-387.79	-29.65	39.40	241.85	1.33	-3.80	
5	18	-45.00	-349.90	-22.55	11.17	228.01	5.86	3.81	
5	18	5.00	-310.82	-15.24	-0.24	100.88	3.97	9.37	
5	18	43.75	-275.24	-13.96	-2.75	94.63	2.41	8.35	
5	18	82.50	-238.73	-16.03	-2.11	68.66	1.53	7.23	
5	18	121.25	-189.62	-19.99	-3.08	24.15	1.39	4.46	
5	18	160.00	-105.29	-2.83	-3.26	2.47	-0.55	-1.38	
5	19	-180.00	-434.89	-26.13	67.55	258.35	-43.71	-1.36	
5	19	-145.00	-433.01	-31.53	67.55	261.80	-17.50	-2.67	
5	19	-95.00	-400.73	-30.52	38.91	255.74	1.23	-3.60	
5	19	-45.00	-362.55	-23.40	10.79	240.81	5.56	4.12	
5	19	5.00	-322.82	-15.92	-0.45	108.49	3.53	9.68	
5	19	43.75	-286.28	-14.63	-2.88	101.83	1.90	8.52	
5	19	82.50	-248.60	-16.85	-2.12	74.31	1.01	7.15	
5	19	121.25	-197.52	-21.09	-2.93	27.01	1.01	3.92	
5	19	160.00	-109.11	-2.87	-2.77	3.38	-0.70	-1.99	
5	20	-180.00	-436.25	-26.15	67.53	259.73	-43.71	-1.36	
5	20	-145.00	-434.36	-31.57	67.53	263.21	-17.50	-2.67	
5	20	-95.00	-402.05	-30.57	38.90	257.12	1.23	-3.60	
5	20	-45.00	-363.85	-23.45	10.78	242.10	5.55	4.12	
5	20	5.00	-324.06	-15.96	-0.45	109.22	3.52	9.68	
5	20	43.75	-287.44	-14.68	-2.87	102.49	1.90	8.52	
5	20	82.50	-249.65	-16.91	-2.11	74.78	1.02	7.15	
5	20	121.25	-198.37	-21.19	-2.93	27.19	1.02	3.92	
5	20	160.00	-109.53	-2.88	-2.79	3.42	-0.70	-2.01	
5	21	-180.00	-302.03	-22.69	59.62	173.62	-39.63	-1.17	
5	21	-145.00	-300.95	-26.59	59.62	174.03	-16.61	-2.49	
5	21	-95.00	-277.22	-25.45	35.27	166.84	0.44	-3.63	
5	21	-45.00	-248.78	-18.88	10.93	154.71	5.01	3.00	
5	21	5.00	-218.76	-12.13	0.34	65.70	3.68	8.02	
5	21	43.75	-191.32	-10.67	-2.27	63.72	2.30	7.16	
5	21	82.50	-163.89	-11.83	-1.93	46.72	1.42	6.27	
5	21	121.25	-127.80	-14.39	-2.43	16.50	1.07	4.27	
5	21	160.00	-67.70	-2.08	-2.21	1.72	-0.40	-0.47	
5	22	-180.00	-303.40	-22.71	59.61	175.00	-39.63	-1.17	
5	22	-145.00	-302.30	-26.62	59.61	175.43	-16.61	-2.49	
5	22	-95.00	-278.54	-25.49	35.26	168.22	0.44	-3.63	
5	22	-45.00	-250.08	-18.93	10.92	156.00	5.00	3.00	
5	22	5.00	-220.00	-12.17	0.35	66.44	3.67	8.03	
5	22	43.75	-192.48	-10.71	-2.27	64.37	2.29	7.16	
5	22	82.50	-164.94	-11.89	-1.92	47.19	1.43	6.28	
5	22	121.25	-128.66	-14.49	-2.43	16.68	1.08	4.27	
5	22	160.00	-68.11	-2.09	-2.22	1.76	-0.40	-0.48	

M	S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
5	23	-180.00	-316.70	-23.15	59.05	189.08	-39.27	-1.14	
5	23	-145.00	-315.52	-27.32	59.05	189.72	-16.45	-2.39	
5	23	-95.00	-291.47	-26.37	34.77	182.10	0.34	-3.43	
5	23	-45.00	-262.73	-19.79	10.54	168.80	4.70	3.31	
5	23	5.00	-232.00	-12.85	0.14	74.04	3.23	8.34	
5	23	43.75	-203.53	-11.39	-2.40	71.58	1.78	7.33	
5	23	82.50	-174.80	-12.71	-1.92	52.84	0.91	6.20	
5	23	121.25	-136.55	-15.60	-2.28	19.54	0.70	3.74	
5	23	160.00	-71.93	-2.13	-1.74	2.67	-0.55	-1.10	
5	24	-180.00	-318.06	-23.16	59.03	190.46	-39.26	-1.14	
5	24	-145.00	-316.87	-27.36	59.03	191.13	-16.45	-2.39	
5	24	-95.00	-292.79	-26.42	34.76	183.49	0.34	-3.43	
5	24	-45.00	-264.03	-19.84	10.53	170.09	4.70	3.31	
5	24	5.00	-233.24	-12.89	0.14	74.78	3.22	8.34	
5	24	43.75	-204.69	-11.43	-2.39	72.24	1.78	7.34	
5	24	82.50	-175.85	-12.77	-1.91	53.31	0.92	6.20	
5	24	121.25	-137.40	-15.69	-2.28	19.72	0.71	3.73	
5	24	160.00	-72.35	-2.14	-1.75	2.70	-0.55	-1.11	
5	25	-180.00	-401.96	-29.72	80.70	216.59	-52.95	-1.62	
5	25	-145.00	-400.11	-34.65	80.70	218.61	-21.83	-3.33	
5	25	-95.00	-368.14	-32.79	48.04	212.72	1.38	-4.70	
5	25	-45.00	-329.93	-24.10	15.03	200.96	7.68	4.40	
5	25	5.00	-290.68	-15.50	0.20	84.86	5.78	11.18	
5	25	43.75	-255.69	-13.62	-3.59	81.95	3.69	10.05	
5	25	82.50	-220.75	-15.12	-3.19	60.11	2.30	8.89	
5	25	121.25	-175.02	-18.32	-3.97	20.98	1.61	6.19	
5	25	160.00	-98.23	-2.55	-3.66	1.80	-0.58	-0.58	
5	26	-180.00	-403.33	-29.74	80.68	217.97	-52.94	-1.62	
5	26	-145.00	-401.46	-34.68	80.68	220.02	-21.83	-3.33	
5	26	-95.00	-369.46	-32.84	48.03	214.11	1.38	-4.70	
5	26	-45.00	-331.22	-24.15	15.02	202.25	7.67	4.40	
5	26	5.00	-291.92	-15.54	0.20	85.59	5.77	11.19	
5	26	43.75	-256.85	-13.66	-3.58	82.60	3.68	10.05	
5	26	82.50	-221.81	-15.19	-3.18	60.58	2.30	8.89	
5	26	121.25	-175.87	-18.42	-3.97	21.17	1.62	6.19	
5	26	160.00	-98.65	-2.56	-3.67	1.84	-0.58	-0.59	
5	27	-180.00	-416.63	-30.18	80.13	232.05	-52.59	-1.59	
5	27	-145.00	-414.68	-35.39	80.13	234.31	-21.68	-3.24	
5	27	-95.00	-382.40	-33.71	47.54	227.99	1.28	-4.50	
5	27	-45.00	-343.87	-25.00	14.64	215.06	7.38	4.71	
5	27	5.00	-303.91	-16.22	-8.16e-03	93.20	5.33	11.50	
5	27	43.75	-267.89	-14.34	-3.71	89.81	3.17	10.22	
5	27	82.50	-231.67	-16.01	-3.18	66.23	1.79	8.81	
5	27	121.25	-183.76	-19.52	-3.82	24.02	1.24	5.65	
5	27	160.00	-102.46	-2.60	-3.19	2.74	-0.74	-1.21	
5	28	-180.00	-418.00	-30.19	80.11	233.43	-52.58	-1.59	
5	28	-145.00	-416.03	-35.42	80.11	235.72	-21.68	-3.24	
5	28	-95.00	-383.72	-33.76	47.53	229.37	1.28	-4.51	
5	28	-45.00	-345.17	-25.05	14.63	216.35	7.37	4.71	
5	28	5.00	-305.15	-16.26	-5.00e-03	93.94	5.32	11.50	
5	28	43.75	-269.05	-14.38	-3.70	90.46	3.17	10.23	
5	28	82.50	-232.72	-16.07	-3.17	66.70	1.79	8.82	
5	28	121.25	-184.62	-19.62	-3.82	24.21	1.25	5.65	
5	28	160.00	-102.88	-2.61	-3.20	2.78	-0.73	-1.22	
5	29	-180.00	-283.78	-26.74	72.20	147.32	-48.51	-1.40	
5	29	-145.00	-282.62	-30.44	72.20	146.53	-20.78	-3.05	
5	29	-95.00	-258.89	-28.64	43.90	139.09	0.50	-4.53	
5	29	-45.00	-230.10	-20.48	14.78	128.96	6.82	3.59	
5	29	5.00	-199.86	-12.44	0.78	50.41	5.48	9.84	
5	29	43.75	-172.93	-10.37	-3.11	51.70	3.57	8.87	
5	29	82.50	-146.96	-10.99	-2.99	38.64	2.20	7.94	
5	29	121.25	-114.05	-12.82	-3.32	13.51	1.31	6.00	
5	29	160.00	-61.05	-1.81	-2.62	1.09	-0.43	0.32	
5	30	-180.00	-285.14	-26.75	72.18	148.70	-48.50	-1.40	
5	30	-145.00	-283.97	-30.48	72.18	147.94	-20.78	-3.06	
5	30	-95.00	-260.21	-28.69	43.89	140.48	0.49	-4.53	
5	30	-45.00	-231.40	-20.53	14.77	130.25	6.82	3.60	
5	30	5.00	-201.10	-12.48	0.79	51.15	5.47	9.85	
5	30	43.75	-174.09	-10.41	-3.10	52.35	3.57	8.87	
5	30	82.50	-148.01	-11.05	-2.98	39.11	2.20	7.94	
5	30	121.25	-114.90	-12.92	-3.32	13.70	1.32	6.00	
5	30	160.00	-61.47	-1.83	-2.64	1.12	-0.43	0.30	
5	31	-180.00	-298.45	-27.19	71.63	162.78	-48.15	-1.37	
5	31	-145.00	-297.19	-31.18	71.63	162.23	-20.63	-2.96	



<b>M</b>	<b>S</b>	<b>Cmb</b>	<b>Z</b>	<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
5	31		-95.00	-273.14	-29.56	43.41	154.36	0.39	-4.33
5	31		-45.00	-244.05	-21.38	14.39	143.05	6.52	3.90
5	31		5.00	-213.09	-13.16	0.58	58.75	5.03	10.16
5	31		43.75	-185.14	-11.09	-3.23	59.56	3.06	9.04
5	31		82.50	-157.87	-11.87	-2.98	44.76	1.69	7.86
5	31		121.25	-122.80	-14.03	-3.17	16.55	0.94	5.47
5	31		160.00	-65.28	-1.87	-2.15	2.03	-0.58	-0.31
5	32		-180.00	-299.81	-27.20	71.61	164.16	-48.14	-1.37
5	32		-145.00	-298.54	-31.21	71.61	163.64	-20.63	-2.96
5	32		-95.00	-274.46	-29.61	43.39	155.74	0.39	-4.33
5	32		-45.00	-245.35	-21.43	14.38	144.34	6.51	3.91
5	32		5.00	-214.33	-13.20	0.58	59.49	5.02	10.16
5	32		43.75	-186.30	-11.13	-3.22	60.21	3.06	9.04
5	32		82.50	-158.92	-11.93	-2.97	45.23	1.69	7.87
5	32		121.25	-123.65	-14.12	-3.17	16.74	0.95	5.46
5	32		160.00	-65.70	-1.88	-2.17	2.07	-0.58	-0.33
5	33		-180.00	-39.25	194.85	52.34	-73.79	-11.41	-1.36
5	33		-145.00	-37.76	191.42	52.34	-70.60	8.14	-1.14
5	33		-95.00	20.67	194.96	34.30	101.29	32.19	6.04
5	33		-45.00	65.90	207.22	15.71	277.51	39.13	7.94
5	33		5.00	183.44	203.04	2.68	762.53	38.10	-20.71
5	33		43.75	127.79	178.83	-8.04	617.76	34.43	-22.46
5	33		82.50	51.35	170.87	-11.04	545.33	31.00	-18.52
5	33		121.25	-18.62	168.11	-26.15	507.38	26.27	-13.65
5	33		160.00	-62.43	209.31	-36.42	148.00	13.67	-0.91
5	34		-180.00	-153.43	235.45	49.83	-42.84	15.73	-1.27
...									
5	96		160.00	-225.62	-55.91	-44.74	-153.54	41.48	67.10
<b>M</b>	<b>S</b>			<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
				-618.42	-314.45	-64.30	-698.63	-99.16	-69.83
				183.44	285.52	80.70	840.93	81.34	67.10

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

### LEGENDA TABELLA 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.

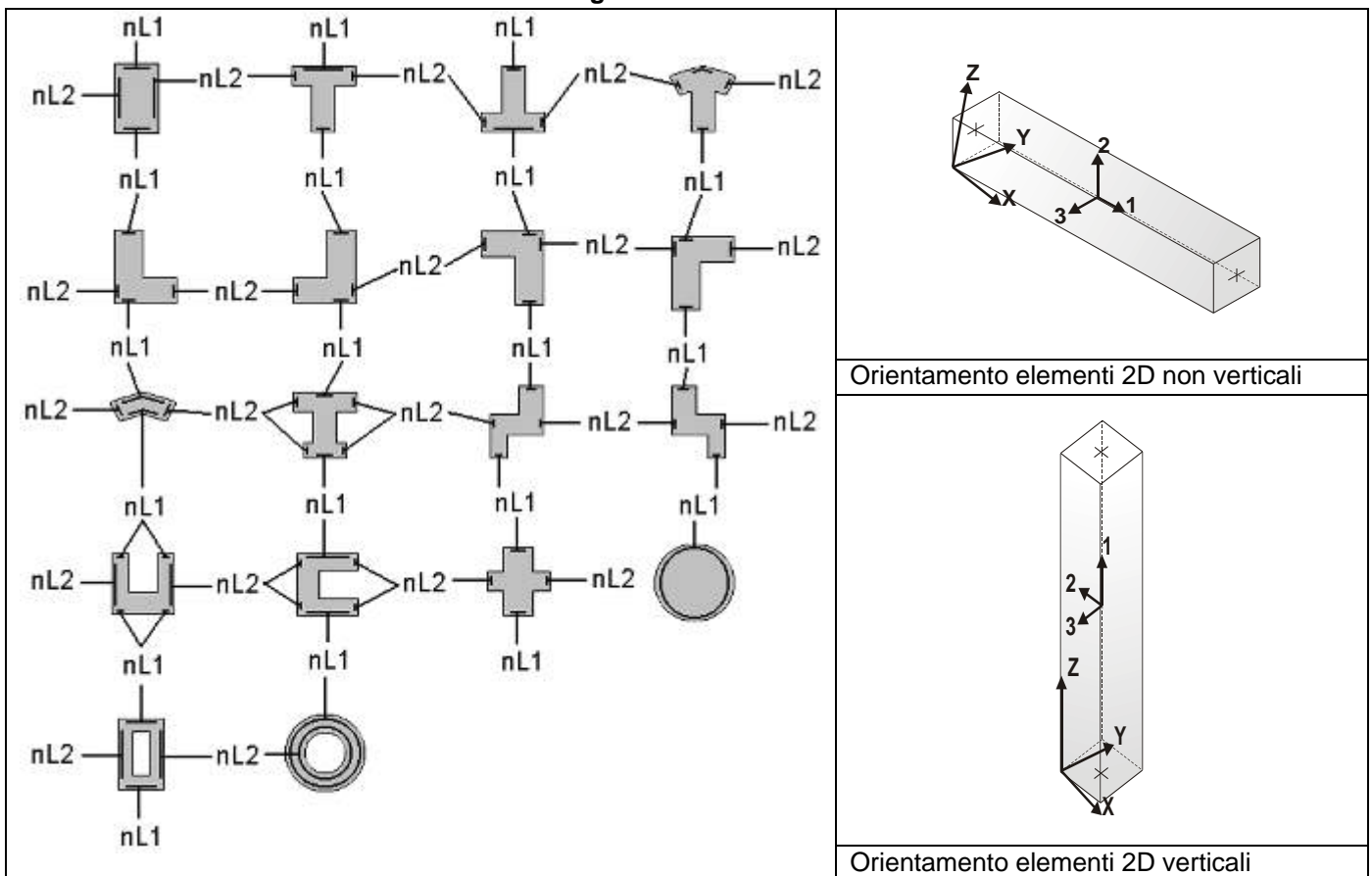
Nel caso in cui si sia proceduto alla progettazione con le tensioni ammissibili (**T.A.**) vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima compressione media nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale) con l'indicazione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



## PROGETTAZIONE DELLE FONDAZIONI

Il D.M.17/01/2018 - par: 7.2.5 prevede:

“Sia per CD“A” sia per CD“B” il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall’analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- [...];
- quella trasferita dagli elementi soprastanti nell’ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD“A” e 1,10 in CD“B”;

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

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO\_SAP (per travi e platee) o da PRO\_CAD Plinti (per plinti e pali di fondazione) incrementando la componente sismica delle combinazioni di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l’incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche di pali, plinti, plinti su pali, travi e platee vengono eseguita dal modulo geotecnico incrementando automaticamente le componenti sismiche delle sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza nessun incremento.

### 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 $\lambda$ su $\lambda^*$ : 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 sovraresistenza 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 $\gamma_{Rd}$ adottato
sovr. Yi (Yf)	Verifica sovraresistenza 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 $\gamma_{Rd}$ 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 Stato	Codici relativi all'esito della verifica 7.4.29
dmu_fi 2-2 (3-3)	Domanda in duttilità di curvatura in direzione 2 (3)
cmu_fi 2-2 (3-3)	Capacità in duttilità di curvatura in direzione 2 (3)
V. dutt. 2-2 (3-3)	Rapporto tra la domanda in duttilità di curvatura e la capacità in duttilità di curvatura in 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 $V_{jbd}$ 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: <ul style="list-style-type: none"> <li>• SI il passo staffe è calcolato utilizzando la formula 7.4.10;</li> <li>• NO il passo staffe è calcolato utilizzando le formule 7.4.11 e/o 7.4.12;</li> <li>• NR calcolo passo staffe non richiesto;</li> </ul>
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.

**Per le verifiche agli S.L. delle travi è presente una tabella con i simboli di seguito descritti:**

M_T	Z	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 (f)	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
VE <sub>d</sub> , min	Valore di taglio minimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
VE <sub>d</sub> , max	Valore di taglio massimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
Vr1	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

<b>M_P= 1 X=-168.6 Y=-913.0</b>												
Pilas.	Note	Stato	Quota cm	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe L=cm	V V/T cls	V V/T acc	Rif. cmb
145	s=5,m=162	NV,NV	160.0	1.03	0.79	4d14 2+2 d14	2.21	0.59	2+2d6/25 L=370	1.05	8.63	33,64,33,33
			345.0	1.03	0.79	4d14 2+2 d14	0.20	0.58	2+2d6/25 L=370	1.05	8.63	33,64,33,33
	[b=1.0;1.0]		530.0	1.03	0.79	4d14 2+2 d14	1.69	0.57	2+2d6/25 L=370	1.05	8.63	33,64,33,33
<b>M_P= 2 X=-168.6 Y=-913.0</b>												
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
127	s=5,m=164	NV,NV	530.0	1.03	0.62	4d14 2+2 d14	1.36	0.34	2+2d6/25 L=375	1.11	6.10	36,64,33,33
			717.5	1.03	0.62	4d14 2+2 d14	0.14	0.33	2+2d6/25 L=375	1.11	6.10	33,64,33,33
	[b=1.0;1.0]		905.0	1.03	0.62	4d14 2+2 d14	1.63	0.31	2+2d6/25 L=375	1.11	6.10	33,64,33,33
<b>M_P= 3 X=-168.6 Y=-913.0</b>												
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
102	s=3,m=161	ok,ok	-180.0	0.78	0.05	4d14 2+2 d14	0.10	0.33	2+2d6/25 L=35	0.27	0.37	37,36,39,58
			-162.5	0.78	0.05	4d14 2+2 d14	0.09	0.33	2+2d6/25 L=35	0.27	0.37	61,36,39,58
	[b=1.0;1.0]		-145.0	0.78	0.05	4d14 2+2 d14	0.10	0.33	2+2d6/25 L=35	0.27	0.37	59,36,39,58
231	s=3,m=161	ok,ok	-145.0	0.78	0.07	4d14 2+2 d14	0.09	0.32	2+2d6/25 L=50	0.20	0.30	59,36,38,38
			-120.0	0.78	0.07	4d14 2+2 d14	0.10	0.31	2+2d6/25 L=50	0.20	0.30	59,36,38,38
	[b=1.0;1.0]		-95.0	0.78	0.07	4d14 2+2 d14	0.10	0.31	2+2d6/25 L=50	0.20	0.30	59,36,38,38
196	s=3,m=161	ok,ok	-95.0	0.78	0.07	4d14 2+2 d14	0.10	0.31	2+2d6/25 L=50	0.20	0.30	59,36,39,39
			-70.0	0.78	0.07	4d14 2+2 d14	0.11	0.31	2+2d6/25 L=50	0.20	0.30	59,36,39,39
	[b=1.0;1.0]		-45.0	0.78	0.07	4d14 2+2 d14	0.11	0.31	2+2d6/25 L=50	0.20	0.30	59,36,39,39
256	s=3,m=161	ok,ok	-45.0	0.78	0.07	4d14 2+2 d14	0.11	0.33	2+2d6/25 L=50	0.24	0.36	58,36,39,39
			-20.0	0.78	0.07	4d14 2+2 d14	0.12	0.33	2+2d6/25 L=50	0.24	0.36	61,36,39,39
	[b=1.0;1.0]		5.0	0.78	0.07	4d14 2+2 d14	0.14	0.33	2+2d6/25 L=50	0.24	0.36	59,36,39,39
172	s=3,m=161	ok,ok	5.0	0.78	0.06	4d14 2+2 d14	0.13	0.37	2+2d6/25 L=39	0.30	0.45	61,36,39,39
			24.4	0.78	0.06	4d14 2+2 d14	0.15	0.37	2+2d6/25 L=39	0.30	0.45	61,36,39,39
	[b=1.0;1.0]		43.8	0.78	0.06	4d14 2+2 d14	0.17	0.37	2+2d6/25 L=39	0.30	0.45	61,36,39,39
242	s=3,m=161	ok,ok	43.8	0.78	0.06	4d14 2+2 d14	0.17	0.44	2+2d6/25 L=39	0.44	0.62	61,36,39,39
			63.1	0.78	0.06	4d14 2+2 d14	0.20	0.44	2+2d6/25 L=39	0.44	0.62	61,36,39,39
	[b=1.0;1.0]		82.5	0.78	0.06	4d14 2+2 d14	0.23	0.44	2+2d6/25 L=39	0.44	0.62	61,36,39,39
215	s=3,m=161	ok,NV	82.5	0.78	0.07	4d14 2+2 d14	0.27	0.57	2+2d6/25 L=39	0.78	1.12	61,36,38,39
			101.9	0.78	0.07	4d14 2+2 d14	0.33	0.56	2+2d6/25 L=39	0.78	1.12	61,36,38,39
	[b=1.0;1.0]		121.2	0.78	0.07	4d14 2+2 d14	0.40	0.56	2+2d6/25 L=39	0.78	1.12	61,36,38,39
267	s=3,m=161	ok,NV	121.2	0.78	0.07	4d14 2+2 d14	0.49	0.68	2+2d6/25 L=39	1.34	6.21	61,36,39,39
			140.6	0.78	0.07	4d14 2+2 d14	0.58	0.68	2+2d6/25 L=39	1.34	6.21	61,36,39,39
	[b=1.0;1.0]		160.0	0.78	0.07	4d14 2+2 d14	0.61	0.68	2+2d6/25 L=39	1.34	6.21	61,36,39,39
<b>M_P= 4 X=297.5 Y=-913.0</b>												
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
103	s=1,m=161	ok,ok	-180.0	0.68	0.04	4d14 2+2 d14	0.06	0.33	3+3d6/25 L=35	0.41	0.48	59,38,39,39
			-162.5	0.68	0.04	4d14 2+2 d14	0.05	0.33	3+3d6/25 L=35	0.41	0.48	39,38,39,39
	[b=1.0;1.0]		-145.0	0.68	0.04	4d14 2+2 d14	0.07	0.33	3+3d6/25 L=35	0.41	0.48	39,38,39,39
232	s=1,m=161	ok,ok	-145.0	0.68	0.06	4d14 2+2 d14	0.04	0.32	3+3d6/25 L=50	0.45	0.67	35,38,39,39
			-120.0	0.68	0.06	4d14 2+2 d14	0.10	0.32	3+3d6/25 L=50	0.45	0.67	39,38,39,39
	[b=1.0;1.0]		-95.0	0.68	0.06	4d14 2+2 d14	0.17	0.31	3+3d6/25 L=50	0.45	0.67	39,38,39,39
197	s=1,m=161	ok,ok	-95.0	0.68	0.06	4d14 2+2 d14	0.14	0.36	3+3d6/25 L=50	0.62	0.89	35,38,39,35
			-70.0	0.68	0.06	4d14 2+2 d14	0.22	0.36	3+3d6/25 L=50	0.62	0.89	35,38,39,35
	[b=1.0;1.0]		-45.0	0.68	0.06	4d14 2+2 d14	0.31	0.36	3+3d6/25 L=50	0.62	0.89	35,38,39,35
257	s=1,m=161	ok,ok	-45.0	0.68	0.06	4d14 2+2 d14	0.30	0.43	3+3d6/25 L=50	0.58	0.68	35,38,39,39
			-20.0	0.68	0.06	4d14 2+2 d14	0.34	0.43	3+3d6/25 L=50	0.58	0.68	35,38,39,39
	[b=1.0;1.0]		5.0	0.68	0.06	4d14 2+2 d14	0.38	0.43	3+3d6/25 L=50	0.58	0.68	35,38,39,39

173	s=1,m=161	ok,ok	5.0	0.68	0.05	4d14 2+2 d14	0.29	0.37	3+3d6/25 L=39	0.43	0.53	35,38,39,39
	[b=1.0;1.0]		24.4	0.68	0.05	4d14 2+2 d14	0.27	0.37	3+3d6/25 L=39	0.43	0.53	35,38,39,39
			43.8	0.68	0.05	4d14 2+2 d14	0.26	0.37	3+3d6/25 L=39	0.43	0.53	35,38,39,39
243	s=1,m=161	ok,ok	43.8	0.68	0.05	4d14 2+2 d14	0.23	0.39	3+3d6/25 L=39	0.31	0.39	35,38,39,39
	[b=1.0;1.0]		63.1	0.68	0.05	4d14 2+2 d14	0.22	0.39	3+3d6/25 L=39	0.31	0.39	35,38,39,39
			82.5	0.68	0.05	4d14 2+2 d14	0.21	0.39	3+3d6/25 L=39	0.31	0.39	35,38,39,39
216	s=1,m=161	ok,ok	82.5	0.68	0.05	4d14 2+2 d14	0.22	0.44	3+3d6/25 L=39	0.48	0.64	35,38,39,58
	[b=1.0;1.0]		101.9	0.68	0.05	4d14 2+2 d14	0.20	0.44	3+3d6/25 L=39	0.48	0.64	35,38,39,58
			121.2	0.68	0.05	4d14 2+2 d14	0.21	0.44	3+3d6/25 L=39	0.48	0.64	39,38,39,58
268	s=1,m=161	ok,ok	121.2	0.68	0.05	4d14 2+2 d14	0.23	0.47	3+3d6/25 L=39	0.63	0.79	39,38,39,34
	[b=1.0;1.0]		140.6	0.68	0.05	4d14 2+2 d14	0.17	0.47	3+3d6/25 L=39	0.63	0.79	39,38,39,34
			160.0	0.68	0.05	4d14 2+2 d14	0.13	0.47	3+3d6/25 L=39	0.63	0.79	59,38,39,34
						<b>M_P= 5 X=297.5 Y=-913.0</b>						
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
143	s=5,m=164	NV,NV	530.0	1.03	0.63	4d14 2+2 d14	1.34	0.36	2+2d6/25 L=375	1.18	5.80	33,38,49,49
	[b=1.0;1.0]		717.5	1.03	0.63	4d14 2+2 d14	0.13	0.35	2+2d6/25 L=375	1.18	5.80	39,38,49,49
			905.0	1.03	0.63	4d14 2+2 d14	1.60	0.33	2+2d6/25 L=375	1.19	5.80	36,38,49,49
						<b>M_P= 6 X=297.5 Y=-913.0</b>						
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
62	s=5,m=162	NV,NV	160.0	1.03	0.85	4d14 2+2 d14	1.85	0.69	2+2d6/25 L=370	1.10	6.56	36,38,61,49
	[b=1.0;1.0]		345.0	1.03	0.85	4d14 2+2 d14	0.20	0.68	2+2d6/25 L=370	1.10	6.56	59,38,61,49
			530.0	1.03	0.85	4d14 2+2 d14	1.56	0.67	2+2d6/25 L=370	1.10	6.56	36,38,61,49
						<b>M_P= 7 X=-168.6 Y=-595.0</b>						
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
100	s=5,m=162	NV,NV	160.0	1.03	0.76	4d14 2+2 d14	1.05	0.25	2+2d6/25 L=370	1.00	2.23	64,36,61,58
	[b=1.0;1.0]		345.0	1.03	0.76	4d14 2+2 d14	0.20	0.25	2+2d6/25 L=370	1.00	2.23	33,36,64,58
			530.0	1.03	0.76	4d14 2+2 d14	1.08	0.24	2+2d6/25 L=370	1.00	2.23	58,36,64,58
						<b>M_P= 8 X=-168.6 Y=-595.0</b>						
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
29	s=3,m=161	ok,ok	-180.0	0.78	0.71	4d14 2+2 d14	0.20	0.36	2+2d6/25 L=340	0.54	0.79	37,36,38,33
	[b=1.0;1.0]		-10.0	0.78	0.71	4d14 2+2 d14	0.27	0.35	2+2d6/25 L=340	0.54	0.79	39,36,38,33
			160.0	0.78	0.71	4d14 2+2 d14	0.56	0.34	2+2d6/25 L=340	0.54	0.79	38,36,38,33
						<b>M_P= 9 X=-168.6 Y=-595.0</b>						
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
1	s=5,m=164	NV,NV	530.0	1.03	0.76	4d14 2+2 d14	1.08	0.21	2+2d6/25 L=375	1.00	3.38	58,36,57,58
	[b=1.0;1.0]		717.5	1.03	0.76	4d14 2+2 d14	0.20	0.19	2+2d6/25 L=375	1.00	3.43	41,36,59,58
			905.0	1.03	0.76	4d14 2+2 d14	1.14	0.18	2+2d6/25 L=375	1.00	3.48	58,36,59,58
						<b>M_P= 10 X=297.5 Y=-595.0</b>						
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
104	s=1,m=161	ok,ok	-180.0	0.68	0.04	4d14 2+2 d14	0.22	0.24	3+3d6/25 L=35	0.24	0.30	39,35,59,61
	[b=1.0;1.0]		-162.5	0.68	0.04	4d14 2+2 d14	0.20	0.24	3+3d6/25 L=35	0.24	0.30	39,35,59,61
			-145.0	0.68	0.04	4d14 2+2 d14	0.20	0.24	3+3d6/25 L=35	0.24	0.30	34,35,59,61
233	s=1,m=161	ok,ok	-145.0	0.68	0.05	4d14 2+2 d14	0.19	0.22	3+3d6/25 L=50	0.14	0.16	34,35,61,59
	[b=1.0;1.0]		-120.0	0.68	0.05	4d14 2+2 d14	0.19	0.22	3+3d6/25 L=50	0.14	0.16	34,35,61,59
			-95.0	0.68	0.05	4d14 2+2 d14	0.19	0.22	3+3d6/25 L=50	0.14	0.16	34,35,61,59
198	s=1,m=161	ok,ok	-95.0	0.68	0.05	4d14 2+2 d14	0.19	0.20	3+3d6/25 L=50	0.13	0.18	34,35,61,61
	[b=1.0;1.0]		-70.0	0.68	0.05	4d14 2+2 d14	0.18	0.20	3+3d6/25 L=50	0.13	0.18	34,35,61,61
			-45.0	0.68	0.05	4d14 2+2 d14	0.17	0.20	3+3d6/25 L=50	0.13	0.18	34,35,61,61
258	s=1,m=161	ok,ok	-45.0	0.68	0.04	4d14 2+2 d14	0.17	0.18	3+3d6/25 L=50	0.18	0.24	34,35,58,58
	[b=1.0;1.0]		-20.0	0.68	0.04	4d14 2+2 d14	0.16	0.18	3+3d6/25 L=50	0.18	0.24	34,35,58,58
			5.0	0.68	0.04	4d14 2+2 d14	0.15	0.18	3+3d6/25 L=50	0.18	0.24	34,35,58,58
174	s=1,m=161	ok,ok	5.0	0.68	0.03	4d14 2+2 d14	0.14	0.17	3+3d6/25 L=39	0.22	0.30	34,35,58,58
	[b=1.0;1.0]		24.4	0.68	0.03	4d14 2+2 d14	0.14	0.17	3+3d6/25 L=39	0.22	0.30	34,35,58,58
			43.8	0.68	0.03	4d14 2+2 d14	0.13	0.17	3+3d6/25 L=39	0.22	0.30	34,35,58,58
244	s=1,m=161	ok,ok	43.8	0.68	0.03	4d14 2+2 d14	0.13	0.17	3+3d6/25 L=39	0.27	0.34	34,36,58,58
	[b=1.0;1.0]		63.1	0.68	0.03	4d14 2+2 d14	0.13	0.17	3+3d6/25 L=39	0.27	0.34	38,36,58,58
			82.5	0.68	0.03	4d14 2+2 d14	0.13	0.17	3+3d6/25 L=39	0.27	0.34	33,36,58,58
217	s=1,m=161	ok,ok	82.5	0.68	0.03	4d14 2+2 d14	0.13	0.18	3+3d6/25 L=39	0.30	0.40	33,36,64,39
	[b=1.0;1.0]		101.9	0.68	0.03	4d14 2+2 d14	0.15	0.18	3+3d6/25 L=39	0.30	0.40	33,36,64,39
			121.2	0.68	0.03	4d14 2+2 d14	0.17	0.18	3+3d6/25 L=39	0.30	0.40	33,36,64,39
269	s=1,m=161	ok,ok	121.2	0.68	0.04	4d14 2+2 d14	0.20	0.22	3+3d6/25 L=39	0.38	0.51	33,36,38,39
	[b=1.0;1.0]		140.6	0.68	0.04	4d14 2+2 d14	0.24	0.22	3+3d6/25 L=39	0.38	0.51	33,36,38,39
			160.0	0.68	0.04	4d14 2+2 d14	0.29	0.22	3+3d6/25 L=39	0.38	0.51	33,36,38,39
						<b>M_P= 11 X=297.5 Y=-595.0</b>						
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
116	s=5,m=162	NV,NV	160.0	1.03	0.82	4d14 2+2 d14	1.60	0.31	2+2d6/25 L=370	1.00	5.44	64,61,50,64
	[b=1.0;1.0]		345.0	1.03	0.82	4d14 2+2 d14	0.27	0.31	2+2d6/25 L=370	1.00	5.51	36,61,59,64
			530.0	1.03	0.82	4d14 2+2 d14	1.36	0.30	2+2d6/25 L=370	1.00	5.57	58,61,62,64
						<b>M_P= 12 X=297.5 Y=-595.0</b>						
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
17	s=5,m=164	NV,NV	530.0	1.03	0.75	4d14 2+2 d14	1.23	0.20	2+2d6/25 L=375	1.06	6.05	59,34,61,61
	[b=1.0;1.0]		717.5	1.03	0.75	4d14 2+2 d14	0.19	0.19	2+2d6/25 L=375	1.07	6.08	44,34,61,59
			905.0	1.03	0.75	4d14 2+2 d14	1.33	0.18	2+2d6/25 L=375	1.08	6.08	59,34,61,59
						<b>M_P= 13 X=-168.6 Y=-300.0</b>						
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

132	s=5,m=162	NV,NV	160.0	1.03	0.77	4d14 2+2 d14	1.16	0.53	2+2d6/25 L=370	1.00	2.17	39,39,56,64
			345.0	1.03	0.77	4d14 2+2 d14	0.15	0.52	2+2d6/25 L=370	1.00	2.19	33,39,64,64
	[b=1.0;1.0]		530.0	1.03	0.77	4d14 2+2 d14	1.03	0.51	2+2d6/25 L=370	1.00	2.20	64,39,64,64
					<b>M_P= 14</b>	<b>X=-168.6</b>	<b>Y=-300.0</b>					
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
41	s=5,m=164	NV,NV	530.0	1.03	0.61	4d14 2+2 d14	0.94	0.30	2+2d6/25 L=375	1.00	3.43	39,39,49,64
			717.5	1.03	0.61	4d14 2+2 d14	0.15	0.29	2+2d6/25 L=375	1.00	3.53	38,39,56,64
	[b=1.0;1.0]		905.0	1.03	0.61	4d14 2+2 d14	1.14	0.28	2+2d6/25 L=375	1.00	3.65	39,39,62,64
					<b>M_P= 15</b>	<b>X=-168.6</b>	<b>Y=-300.0</b>					
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
30	s=3,m=161	ok,ok	-180.0	0.78	0.74	4d14 2+2 d14	0.20	0.75	2+2d6/25 L=340	0.52	0.72	40,39,38,58
			-10.0	0.78	0.74	4d14 2+2 d14	0.38	0.74	2+2d6/25 L=340	0.52	0.72	38,39,38,58
	[b=1.0;1.0]		160.0	0.78	0.74	4d14 2+2 d14	0.72	0.73	2+2d6/25 L=340	0.52	0.72	38,39,38,58
					<b>M_P= 16</b>	<b>X=297.5</b>	<b>Y=-300.0</b>					
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
105	s=1,m=161	ok,ok	-180.0	0.68	0.03	4d14 2+2 d14	0.17	0.21	3+3d6/25 L=35	0.24	0.33	39,36,59,59
			-162.5	0.68	0.03	4d14 2+2 d14	0.15	0.20	3+3d6/25 L=35	0.24	0.33	33,36,59,59
	[b=1.0;1.0]		-145.0	0.68	0.03	4d14 2+2 d14	0.15	0.20	3+3d6/25 L=35	0.24	0.33	33,36,59,59
234	s=1,m=161	ok,ok	-145.0	0.68	0.05	4d14 2+2 d14	0.15	0.19	3+3d6/25 L=50	0.14	0.18	33,36,39,39
			-120.0	0.68	0.05	4d14 2+2 d14	0.15	0.18	3+3d6/25 L=50	0.14	0.18	33,36,39,39
	[b=1.0;1.0]		-95.0	0.68	0.05	4d14 2+2 d14	0.15	0.18	3+3d6/25 L=50	0.14	0.18	33,36,39,39
199	s=1,m=161	ok,ok	-95.0	0.68	0.04	4d14 2+2 d14	0.15	0.17	3+3d6/25 L=50	0.15	0.20	33,36,38,38
			-70.0	0.68	0.04	4d14 2+2 d14	0.14	0.17	3+3d6/25 L=50	0.15	0.20	33,36,38,38
	[b=1.0;1.0]		-45.0	0.68	0.04	4d14 2+2 d14	0.14	0.16	3+3d6/25 L=50	0.15	0.20	33,36,38,38
259	s=1,m=161	ok,ok	-45.0	0.68	0.04	4d14 2+2 d14	0.13	0.15	3+3d6/25 L=50	0.18	0.25	33,36,38,38
			-20.0	0.68	0.04	4d14 2+2 d14	0.12	0.15	3+3d6/25 L=50	0.18	0.25	33,36,38,38
	[b=1.0;1.0]		5.0	0.68	0.04	4d14 2+2 d14	0.11	0.15	3+3d6/25 L=50	0.18	0.25	33,36,38,38
175	s=1,m=161	ok,ok	5.0	0.68	0.03	4d14 2+2 d14	0.11	0.14	3+3d6/25 L=39	0.20	0.28	33,36,38,38
			24.4	0.68	0.03	4d14 2+2 d14	0.11	0.14	3+3d6/25 L=39	0.20	0.28	36,36,38,38
	[b=1.0;1.0]		43.8	0.68	0.03	4d14 2+2 d14	0.11	0.14	3+3d6/25 L=39	0.20	0.28	36,36,38,38
245	s=1,m=161	ok,ok	43.8	0.68	0.03	4d14 2+2 d14	0.11	0.14	3+3d6/25 L=39	0.22	0.31	36,36,38,38
			63.1	0.68	0.03	4d14 2+2 d14	0.11	0.14	3+3d6/25 L=39	0.22	0.31	36,36,38,38
	[b=1.0;1.0]		82.5	0.68	0.03	4d14 2+2 d14	0.12	0.14	3+3d6/25 L=39	0.22	0.31	36,36,38,38
218	s=1,m=161	ok,ok	82.5	0.68	0.03	4d14 2+2 d14	0.12	0.16	3+3d6/25 L=39	0.28	0.38	36,36,39,39
			101.9	0.68	0.03	4d14 2+2 d14	0.14	0.15	3+3d6/25 L=39	0.28	0.38	36,36,39,39
	[b=1.0;1.0]		121.2	0.68	0.03	4d14 2+2 d14	0.16	0.15	3+3d6/25 L=39	0.28	0.38	36,36,39,39
270	s=1,m=161	ok,ok	121.2	0.68	0.04	4d14 2+2 d14	0.17	0.19	3+3d6/25 L=39	0.41	0.52	36,36,60,60
			140.6	0.68	0.04	4d14 2+2 d14	0.21	0.19	3+3d6/25 L=39	0.41	0.52	36,36,60,60
	[b=1.0;1.0]		160.0	0.68	0.04	4d14 2+2 d14	0.26	0.19	3+3d6/25 L=39	0.41	0.52	36,36,60,60
					<b>M_P= 17</b>	<b>X=297.5</b>	<b>Y=-300.0</b>					
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
148	s=5,m=162	NV,NV	160.0	1.03	0.83	4d14 2+2 d14	1.62	0.46	2+2d6/25 L=370	1.00	5.86	61,38,35,61
			345.0	1.03	0.83	4d14 2+2 d14	0.24	0.45	2+2d6/25 L=370	1.00	5.97	60,38,55,61
	[b=1.0;1.0]		530.0	1.03	0.83	4d14 2+2 d14	1.49	0.44	2+2d6/25 L=370	1.00	6.06	59,38,59,61
					<b>M_P= 18</b>	<b>X=297.5</b>	<b>Y=-300.0</b>					
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
57	s=5,m=164	NV,NV	530.0	1.03	0.78	4d14 2+2 d14	1.26	0.27	2+2d6/25 L=375	1.09	6.09	61,38,61,58
			717.5	1.03	0.78	4d14 2+2 d14	0.13	0.26	2+2d6/25 L=375	1.10	6.09	36,38,61,58
	[b=1.0;1.0]		905.0	1.03	0.78	4d14 2+2 d14	1.38	0.25	2+2d6/25 L=375	1.10	6.11	61,38,61,59
					<b>M_P= 19</b>	<b>X=0.0</b>	<b>Y=0.0</b>					
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
67	s=5,m=164	NV,NV	530.0	1.03	0.66	4d14 2+2 d14	1.45	0.25	2+2d6/25 L=375	1.07	5.22	39,40,59,59
			717.5	1.03	0.66	4d14 2+2 d14	0.08	0.23	2+2d6/25 L=375	1.08	5.22	38,40,59,59
	[b=1.0;1.0]		905.0	1.03	0.66	4d14 2+2 d14	1.56	0.22	2+2d6/25 L=375	1.09	5.22	39,40,59,59
					<b>M_P= 20</b>	<b>X=0.0</b>	<b>Y=0.0</b>					
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
31	s=3,m=161	ok,ok	-180.0	0.78	0.74	4d14 2+2 d14	0.18	0.73	2+2d6/25 L=340	0.30	0.67	60,40,58,58
			-10.0	0.78	0.74	4d14 2+2 d14	0.23	0.72	2+2d6/25 L=340	0.30	0.67	38,40,38,58
	[b=1.0;1.0]		160.0	0.78	0.74	4d14 2+2 d14	0.43	0.71	2+2d6/25 L=340	0.30	0.67	58,40,38,58
					<b>M_P= 21</b>	<b>X=0.0</b>	<b>Y=0.0</b>					
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
6	s=5,m=162	NV,NV	160.0	1.03	0.76	4d14 2+2 d14	1.45	0.46	2+2d6/25 L=370	1.00	2.96	38,48,39,59
			345.0	1.03	0.76	4d14 2+2 d14	0.08	0.45	2+2d6/25 L=370	1.00	2.99	20,48,57,59
	[b=1.0;1.0]		530.0	1.03	0.76	4d14 2+2 d14	1.38	0.44	2+2d6/25 L=370	1.00	3.01	38,48,38,59
					<b>M_P= 22</b>	<b>X=297.5</b>	<b>Y=0.0</b>					
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
78	s=1,m=161	ok,ok	-180.0	0.68	0.05	4d14 2+2 d14	0.08	0.40	3+3d6/25 L=35	0.23	0.35	59,59,38,39
			-162.5	0.68	0.05	4d14 2+2 d14	0.06	0.40	3+3d6/25 L=35	0.23	0.35	59,59,38,39
	[b=1.0;1.0]		-145.0	0.68	0.05	4d14 2+2 d14	0.05	0.40	3+3d6/25 L=35	0.23	0.35	59,59,38,39
225	s=1,m=161	ok,ok	-145.0	0.68	0.06	4d14 2+2 d14	0.05	0.39	3+3d6/25 L=50	0.27	0.32	59,59,34,35
			-120.0	0.68	0.06	4d14 2+2 d14	0.05	0.39	3+3d6/25 L=50	0.27	0.32	59,59,34,35
	[b=1.0;1.0]		-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.39	3+3d6/25 L=50	0.27	0.32	59,59,34,35
188	s=1,m=161	ok,ok	-95.0	0.68	0.07	4d14 2+2 d14	0.06	0.41	3+3d6/25 L=50	0.56	0.76	59,59,33,36
			-70.0	0.68	0.07	4d14 2+2 d14	0.08	0.41	3+3d6/25 L=50	0.56	0.76	39,59,33,36
	[b=1.0;1.0]		-45.0	0.68	0.07	4d14 2+2 d14	0.13	0.41	3+3d6/25 L=50	0.56	0.76	36,59,33,36



250	s=1,m=161	ok,NV	-45.0	0.68	0.07	4d14 2+2 d14	0.11	0.45	3+3d6/25 L=50	0.96	1.35	36,39,33,33
			-20.0	0.68	0.07	4d14 2+2 d14	0.23	0.45	3+3d6/25 L=50	0.96	1.35	33,39,33,33
	[b=1.0;1.0]		5.0	0.68	0.07	4d14 2+2 d14	0.36	0.45	3+3d6/25 L=50	0.96	1.35	33,39,33,33
164	s=1,m=161	ok,ok	5.0	0.68	0.06	4d14 2+2 d14	0.35	0.58	3+3d6/25 L=39	0.51	0.88	33,59,37,40
			24.4	0.68	0.06	4d14 2+2 d14	0.28	0.58	3+3d6/25 L=39	0.52	0.88	33,59,37,40
	[b=1.0;1.0]		43.8	0.68	0.06	4d14 2+2 d14	0.21	0.58	3+3d6/25 L=39	0.52	0.88	33,59,37,40
240	s=1,m=161	ok,ok	43.8	0.68	0.06	4d14 2+2 d14	0.21	0.60	3+3d6/25 L=39	0.61	0.96	33,59,48,48
			63.1	0.68	0.06	4d14 2+2 d14	0.16	0.60	3+3d6/25 L=39	0.61	0.96	33,59,48,48
	[b=1.0;1.0]		82.5	0.68	0.06	4d14 2+2 d14	0.12	0.60	3+3d6/25 L=39	0.61	0.96	38,59,48,48
211	s=1,m=161	ok,ok	82.5	0.68	0.07	4d14 2+2 d14	0.13	0.65	3+3d6/25 L=39	0.71	1.00	37,61,48,48
			101.9	0.68	0.07	4d14 2+2 d14	0.14	0.65	3+3d6/25 L=39	0.71	1.00	61,61,48,48
	[b=1.0;1.0]		121.2	0.68	0.07	4d14 2+2 d14	0.18	0.65	3+3d6/25 L=39	0.71	1.00	59,61,48,48
265	s=1,m=161	ok,NV	121.2	0.68	0.07	4d14 2+2 d14	0.17	0.72	3+3d6/25 L=39	0.77	1.05	63,61,48,40
			140.6	0.68	0.07	4d14 2+2 d14	0.25	0.72	3+3d6/25 L=39	0.77	1.05	48,61,48,40
	[b=1.0;1.0]		160.0	0.68	0.07	4d14 2+2 d14	0.36	0.72	3+3d6/25 L=39	0.77	1.05	48,61,48,40
						<b>M_P= 23 X=297.5 Y=0.0</b>						
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
77	s=5,m=164	NV,NV	530.0	1.03	1.06	4d14 2+2 d14	1.36	0.39	2+2d6/25 L=375	1.00	4.00	39,61,39,36
			717.5	1.03	1.06	4d14 2+2 d14	0.12	0.38	2+2d6/25 L=375	1.00	4.06	18,61,64,36
	[b=1.0;1.0]		905.0	1.03	1.06	4d14 2+2 d14	1.45	0.37	2+2d6/25 L=375	1.00	4.12	39,61,50,36
						<b>M_P= 24 X=297.5 Y=0.0</b>						
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
22	s=5,m=162	NV,NV	160.0	1.03	1.04	4d14 2+2 d14	1.53	0.71	2+2d6/25 L=370	1.00	4.48	39,61,35,58
			345.0	1.03	1.04	4d14 2+2 d14	0.15	0.70	2+2d6/25 L=370	1.00	4.53	58,61,36,58
	[b=1.0;1.0]		530.0	1.03	1.04	4d14 2+2 d14	1.39	0.70	2+2d6/25 L=370	1.00	4.59	39,61,36,58
						<b>M_P= 25 X=945.5 Y=0.0</b>						
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
79	s=1,m=161	ok,ok	-180.0	0.68	0.03	4d14 2+2 d14	0.08	0.09	3+3d6/25 L=35	0.06	0.11	59,39,62,60
			-162.5	0.68	0.03	4d14 2+2 d14	0.07	0.09	3+3d6/25 L=35	0.06	0.11	59,39,62,60
	[b=1.0;1.0]		-145.0	0.68	0.03	4d14 2+2 d14	0.06	0.08	3+3d6/25 L=35	0.06	0.11	59,39,62,60
226	s=1,m=161	ok,ok	-145.0	0.68	0.05	4d14 2+2 d14	0.06	0.09	3+3d6/25 L=50	0.05	0.08	59,39,60,62
			-120.0	0.68	0.05	4d14 2+2 d14	0.04	0.09	3+3d6/25 L=50	0.05	0.08	59,39,60,62
	[b=1.0;1.0]		-95.0	0.68	0.05	4d14 2+2 d14	0.03	0.09	3+3d6/25 L=50	0.05	0.08	20,39,60,62
189	s=1,m=161	ok,ok	-95.0	0.68	0.05	4d14 2+2 d14	0.04	0.09	3+3d6/25 L=50	0.07	0.11	59,39,64,58
			-70.0	0.68	0.05	4d14 2+2 d14	0.04	0.09	3+3d6/25 L=50	0.07	0.11	58,39,64,58
	[b=1.0;1.0]		-45.0	0.68	0.05	4d14 2+2 d14	0.06	0.09	3+3d6/25 L=50	0.07	0.11	58,39,64,58
251	s=1,m=161	ok,ok	-45.0	0.68	0.06	4d14 2+2 d14	0.08	0.11	3+3d6/25 L=50	0.15	0.24	58,39,60,62
			-20.0	0.68	0.06	4d14 2+2 d14	0.11	0.11	3+3d6/25 L=50	0.15	0.24	58,39,60,62
	[b=1.0;1.0]		5.0	0.68	0.06	4d14 2+2 d14	0.14	0.11	3+3d6/25 L=50	0.15	0.24	58,39,60,62
165	s=1,m=161	ok,ok	5.0	0.68	0.38	4d14 2+2 d14	0.35	0.53	3+3d6/25 L=155	0.47	0.62	36,39,53,57
			82.5	0.68	0.38	4d14 2+2 d14	0.31	0.52	3+3d6/25 L=155	0.47	0.62	40,39,53,57
	[b=1.0;1.0]		160.0	0.68	0.38	4d14 2+2 d14	0.38	0.52	3+3d6/25 L=155	0.47	0.62	63,39,53,57
						<b>M_P= 26 X=945.5 Y=0.0</b>						
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
138	s=5,m=164	NV,NV	530.0	1.03	1.12	4d14 2+2 d14	1.17	0.24	2+2d6/25 L=375	1.00	6.25	33,39,33,33
			717.5	1.03	1.12	4d14 2+2 d14	0.18	0.22	2+2d6/25 L=375	1.01	6.25	62,39,33,33
	[b=1.0;1.0]		905.0	1.03	1.12	4d14 2+2 d14	1.36	0.21	2+2d6/25 L=375	1.01	6.25	33,39,33,33
						<b>M_P= 27 X=945.5 Y=0.0</b>						
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
46	s=5,m=162	NV,NV	160.0	1.03	1.08	4d14 2+2 d14	1.33	0.37	2+2d6/25 L=370	1.00	3.41	33,39,37,33
			345.0	1.03	1.08	4d14 2+2 d14	0.25	0.36	2+2d6/25 L=370	1.00	3.43	57,39,33,33
	[b=1.0;1.0]		530.0	1.03	1.08	4d14 2+2 d14	1.11	0.36	2+2d6/25 L=370	1.00	3.45	33,39,36,33
						<b>M_P= 28 X=1565.5 Y=0.0</b>						
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
150	s=1,m=161	ok,ok	-180.0	0.68	0.03	4d14 2+2 d14	0.09	0.08	3+3d6/25 L=35	0.07	0.12	52,33,54,52
			-162.5	0.68	0.03	4d14 2+2 d14	0.06	0.08	3+3d6/25 L=35	0.07	0.12	25,33,54,52
	[b=1.0;1.0]		-145.0	0.68	0.03	4d14 2+2 d14	0.06	0.08	3+3d6/25 L=35	0.07	0.12	51,33,54,52
239	s=1,m=161	ok,ok	-145.0	0.68	0.05	4d14 2+2 d14	0.06	0.08	3+3d6/25 L=50	0.05	0.09	51,33,54,52
			-120.0	0.68	0.05	4d14 2+2 d14	0.05	0.08	3+3d6/25 L=50	0.05	0.09	53,33,54,52
	[b=1.0;1.0]		-95.0	0.68	0.05	4d14 2+2 d14	0.03	0.08	3+3d6/25 L=50	0.05	0.09	49,33,54,52
205	s=1,m=161	ok,ok	-95.0	0.68	0.05	4d14 2+2 d14	0.04	0.09	3+3d6/25 L=50	0.06	0.11	49,33,62,60
			-70.0	0.68	0.05	4d14 2+2 d14	0.04	0.09	3+3d6/25 L=50	0.06	0.11	52,33,62,60
	[b=1.0;1.0]		-45.0	0.68	0.05	4d14 2+2 d14	0.05	0.08	3+3d6/25 L=50	0.06	0.11	52,33,62,60
264	s=1,m=161	ok,ok	-45.0	0.68	0.06	4d14 2+2 d14	0.07	0.10	3+3d6/25 L=50	0.13	0.23	52,33,54,62
			-20.0	0.68	0.06	4d14 2+2 d14	0.10	0.10	3+3d6/25 L=50	0.13	0.23	52,33,54,62
	[b=1.0;1.0]		5.0	0.68	0.06	4d14 2+2 d14	0.13	0.10	3+3d6/25 L=50	0.13	0.23	52,33,54,62
181	s=1,m=161	ok,ok	5.0	0.68	0.38	4d14 2+2 d14	0.27	0.50	3+3d6/25 L=155	0.49	0.66	40,33,55,49
			82.5	0.68	0.38	4d14 2+2 d14	0.36	0.50	3+3d6/25 L=155	0.49	0.66	52,33,55,49
	[b=1.0;1.0]		160.0	0.68	0.38	4d14 2+2 d14	0.48	0.49	3+3d6/25 L=155	0.49	0.66	49,33,55,49
						<b>M_P= 29 X=1565.5 Y=0.0</b>						
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
94	s=5,m=164	NV,NV	530.0	1.03	1.11	4d14 2+2 d14	1.21	0.22	2+2d6/25 L=375	1.00	6.27	36,35,37,36
			717.5	1.03	1.11	4d14 2+2 d14	0.21	0.21	2+2d6/25 L=375	1.00	6.41	49,35,36,36
	[b=1.0;1.0]		905.0	1.03	1.11	4d14 2+2 d14	1.40	0.20	2+2d6/25 L=375	1.01	6.41	36,35,36,36
						<b>M_P= 30 X=1565.5 Y=0.0</b>						

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
60	s=5,m=162	NV,NV	160.0	1.03	1.08	4d14 2+2 d14	1.34	0.34	2+2d6/25 L=370	1.00	3.53	36,37,52,36
			345.0	1.03	1.08	4d14 2+2 d14	0.29	0.33	2+2d6/25 L=370	1.00	3.55	57,37,33,36
	[b=1.0;1.0]		530.0	1.03	1.08	4d14 2+2 d14	1.14	0.32	2+2d6/25 L=370	1.00	3.57	36,37,36,36
						<b>M_P= 31 X=2197.5 Y=0.0</b>						
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
119	s=1,m=161	ok,ok	-180.0	0.68	0.04	4d14 2+2 d14	0.09	0.34	3+3d6/25 L=35	0.21	0.30	33,39,34,39
			-162.5	0.68	0.04	4d14 2+2 d14	0.06	0.34	3+3d6/25 L=35	0.21	0.30	33,39,34,39
	[b=1.0;1.0]		-145.0	0.68	0.04	4d14 2+2 d14	0.05	0.34	3+3d6/25 L=35	0.21	0.30	39,39,34,39
235	s=1,m=161	ok,ok	-145.0	0.68	0.06	4d14 2+2 d14	0.05	0.36	3+3d6/25 L=50	0.08	0.12	39,39,50,54
			-120.0	0.68	0.06	4d14 2+2 d14	0.05	0.36	3+3d6/25 L=50	0.08	0.12	39,39,50,54
	[b=1.0;1.0]		-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.36	3+3d6/25 L=50	0.08	0.12	39,39,50,54
200	s=1,m=161	ok,ok	-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.41	3+3d6/25 L=50	0.13	0.17	39,39,54,52
			-70.0	0.68	0.06	4d14 2+2 d14	0.05	0.41	3+3d6/25 L=50	0.13	0.17	39,39,54,52
	[b=1.0;1.0]		-45.0	0.68	0.06	4d14 2+2 d14	0.05	0.41	3+3d6/25 L=50	0.13	0.17	54,39,54,52
260	s=1,m=161	ok,ok	-45.0	0.68	0.07	4d14 2+2 d14	0.06	0.51	3+3d6/25 L=50	0.26	0.40	39,39,55,36
			-20.0	0.68	0.07	4d14 2+2 d14	0.09	0.51	3+3d6/25 L=50	0.26	0.40	38,39,55,36
	[b=1.0;1.0]		5.0	0.68	0.07	4d14 2+2 d14	0.13	0.50	3+3d6/25 L=50	0.26	0.40	38,39,55,36
176	s=1,m=161	ok,ok	5.0	0.68	0.07	4d14 2+2 d14	0.14	0.76	3+3d6/25 L=39	0.40	0.46	38,39,55,49
			24.4	0.68	0.07	4d14 2+2 d14	0.14	0.76	3+3d6/25 L=39	0.40	0.46	54,39,55,49
	[b=1.0;1.0]		43.8	0.68	0.07	4d14 2+2 d14	0.16	0.76	3+3d6/25 L=39	0.40	0.46	54,39,55,49
275	s=1,m=161	ok,ok	43.8	0.68	0.07	4d14 2+2 d14	0.15	0.69	3+3d6/25 L=39	0.27	0.39	54,39,52,49
			63.1	0.68	0.07	4d14 2+2 d14	0.18	0.69	3+3d6/25 L=39	0.27	0.39	54,39,52,49
	[b=1.0;1.0]		82.5	0.68	0.07	4d14 2+2 d14	0.20	0.69	3+3d6/25 L=39	0.27	0.39	54,39,52,49
277	s=1,m=161	ok,ok	82.5	0.68	0.07	4d14 2+2 d14	0.21	0.68	3+3d6/25 L=39	0.62	0.71	54,35,54,49
			101.9	0.68	0.07	4d14 2+2 d14	0.26	0.68	3+3d6/25 L=39	0.62	0.71	54,35,54,49
	[b=1.0;1.0]		121.2	0.68	0.07	4d14 2+2 d14	0.31	0.68	3+3d6/25 L=39	0.62	0.71	54,35,54,49
279	s=1,m=161	ok,NV	121.2	0.68	0.07	4d14 2+2 d14	0.34	0.70	3+3d6/25 L=39	0.72	1.05	49,36,55,49
			140.6	0.68	0.07	4d14 2+2 d14	0.41	0.70	3+3d6/25 L=39	0.72	1.05	49,36,55,49
	[b=1.0;1.0]		160.0	0.68	0.07	4d14 2+2 d14	0.48	0.70	3+3d6/25 L=39	0.72	1.05	49,36,55,49
						<b>M_P= 32 X=2197.5 Y=0.0</b>						
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
110	s=5,m=164	NV,NV	530.0	1.03	1.02	4d14 2+2 d14	1.54	0.33	2+2d6/25 L=375	1.25	7.04	33,36,33,33
			717.5	1.03	1.02	4d14 2+2 d14	0.43	0.31	2+2d6/25 L=375	1.26	7.04	49,36,33,33
	[b=1.0;1.0]		905.0	1.03	1.02	4d14 2+2 d14	1.72	0.30	2+2d6/25 L=375	1.27	7.04	33,36,33,33
						<b>M_P= 33 X=2197.5 Y=0.0</b>						
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
70	s=5,m=162	NV,NV	160.0	1.03	0.98	4d14 2+2 d14	2.06	0.58	2+2d6/25 L=370	1.17	8.50	33,36,33,33
			345.0	1.03	0.98	4d14 2+2 d14	0.43	0.57	2+2d6/25 L=370	1.17	8.50	49,36,33,33
	[b=1.0;1.0]		530.0	1.03	0.98	4d14 2+2 d14	1.78	0.56	2+2d6/25 L=370	1.17	8.50	33,36,33,33
						<b>M_P= 34 X=2535.0 Y=0.0</b>						
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
120	s=1,m=161	ok,ok	-180.0	0.68	0.05	4d14 2+2 d14	0.14	0.44	3+3d6/25 L=35	0.20	0.31	35,34,36,34
			-162.5	0.68	0.05	4d14 2+2 d14	0.10	0.44	3+3d6/25 L=35	0.20	0.31	35,34,36,34
	[b=1.0;1.0]		-145.0	0.68	0.05	4d14 2+2 d14	0.06	0.44	3+3d6/25 L=35	0.20	0.31	35,34,36,34
236	s=1,m=161	ok,ok	-145.0	0.68	0.06	4d14 2+2 d14	0.06	0.41	3+3d6/25 L=50	0.05	0.07	35,34,33,33
			-120.0	0.68	0.06	4d14 2+2 d14	0.05	0.41	3+3d6/25 L=50	0.05	0.07	34,34,33,33
	[b=1.0;1.0]		-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.41	3+3d6/25 L=50	0.05	0.07	34,34,33,33
201	s=1,m=161	ok,ok	-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.38	3+3d6/25 L=50	0.07	0.09	34,34,33,33
			-70.0	0.68	0.06	4d14 2+2 d14	0.05	0.38	3+3d6/25 L=50	0.07	0.09	34,34,33,33
	[b=1.0;1.0]		-45.0	0.68	0.06	4d14 2+2 d14	0.05	0.38	3+3d6/25 L=50	0.07	0.09	34,34,33,33
261	s=1,m=161	ok,ok	-45.0	0.68	0.06	4d14 2+2 d14	0.04	0.36	3+3d6/25 L=50	0.10	0.13	34,34,33,33
			-20.0	0.68	0.06	4d14 2+2 d14	0.04	0.36	3+3d6/25 L=50	0.10	0.13	34,34,33,33
	[b=1.0;1.0]		5.0	0.68	0.06	4d14 2+2 d14	0.04	0.35	3+3d6/25 L=50	0.10	0.13	34,34,33,33
177	s=1,m=161	ok,ok	5.0	0.68	0.04	4d14 2+2 d14	0.04	0.36	3+3d6/25 L=39	0.15	0.18	50,50,52,36
			24.4	0.68	0.04	4d14 2+2 d14	0.04	0.36	3+3d6/25 L=39	0.15	0.18	50,50,52,36
	[b=1.0;1.0]		43.8	0.68	0.04	4d14 2+2 d14	0.04	0.36	3+3d6/25 L=39	0.15	0.18	50,50,52,36
246	s=1,m=161	ok,ok	43.8	0.68	0.05	4d14 2+2 d14	0.05	0.39	3+3d6/25 L=39	0.22	0.30	50,50,52,56
			63.1	0.68	0.05	4d14 2+2 d14	0.05	0.39	3+3d6/25 L=39	0.22	0.30	51,50,52,56
	[b=1.0;1.0]		82.5	0.68	0.05	4d14 2+2 d14	0.08	0.39	3+3d6/25 L=39	0.22	0.30	51,50,52,56
219	s=1,m=161	ok,ok	82.5	0.68	0.05	4d14 2+2 d14	0.08	0.46	3+3d6/25 L=39	0.32	0.54	51,50,53,50
			101.9	0.68	0.05	4d14 2+2 d14	0.14	0.46	3+3d6/25 L=39	0.32	0.54	51,50,53,50
	[b=1.0;1.0]		121.2	0.68	0.05	4d14 2+2 d14	0.20	0.46	3+3d6/25 L=39	0.32	0.54	51,50,53,50
271	s=1,m=161	ok,ok	121.2	0.68	0.05	4d14 2+2 d14	0.22	0.53	3+3d6/25 L=39	0.25	0.33	51,50,51,50
			140.6	0.68	0.05	4d14 2+2 d14	0.17	0.53	3+3d6/25 L=39	0.25	0.33	51,50,51,50
	[b=1.0;1.0]		160.0	0.68	0.05	4d14 2+2 d14	0.12	0.53	3+3d6/25 L=39	0.25	0.33	51,50,51,50
						<b>M_P= 35 X=2535.0 Y=0.0</b>						
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
126	s=5,m=164	NV,NV	530.0	1.03	0.71	4d14 2+2 d14	2.63	0.51	2+2d6/25 L=375	1.75	9.88	55,50,49,52
			717.5	1.03	0.71	4d14 2+2 d14	0.14	0.50	2+2d6/25 L=375	1.75	9.88	36,50,49,52
	[b=1.0;1.0]		905.0	1.03	0.71	4d14 2+2 d14	2.86	0.48	2+2d6/25 L=375	1.75	9.88	55,50,49,52
						<b>M_P= 36 X=2535.0 Y=0.0</b>						
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
82	s=5,m=162	NV,NV	160.0	1.03	0.93	4d14 2+2 d14	5.59	0.93	2+2d6/25 L=370	1.49	11.48	55,50,49,52
			345.0	1.03	0.93	4d14 2+2 d14	0.33	0.93	2+2d6/25 L=370	1.49	11.48	55,50,49,52

	[b=1.0;1.0]		530.0	1.03	0.93	4d14 2+2 d14	4.99	0.92	2+2d6/25 L=370	1.49	11.48	55,50,49,52
					<b>M_P= 37</b>	<b>X=0.0</b>	<b>Y=277.8</b>					
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
142	s=5,m=164	NV,NV	530.0	1.03	0.67	4d14 2+2 d14	1.40	0.36	2+2d6/25 L=375	1.04	5.32	38,39,38,58
			717.5	1.03	0.67	4d14 2+2 d14	0.08	0.35	2+2d6/25 L=375	1.04	5.32	59,39,38,58
	[b=1.0;1.0]		905.0	1.03	0.67	4d14 2+2 d14	1.48	0.33	2+2d6/25 L=375	1.04	5.32	38,39,38,58
					<b>M_P= 38</b>	<b>X=0.0</b>	<b>Y=277.8</b>					
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
32	s=3,m=161	ok,ok	-180.0	0.78	0.89	4d14 2+2 d14	0.25	1.13	2+2d6/25 L=340	0.50	0.82	57,39,39,59
			-10.0	0.78	0.89	4d14 2+2 d14	0.25	1.12	2+2d6/25 L=340	0.48	0.82	38,39,39,59
	[b=1.0;1.0]		160.0	0.78	0.89	4d14 2+2 d14	0.53	1.11	2+2d6/25 L=340	0.47	0.82	59,39,39,59
					<b>M_P= 39</b>	<b>X=0.0</b>	<b>Y=277.8</b>					
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
28	s=5,m=162	NV,NV	160.0	1.03	0.91	4d14 2+2 d14	1.62	0.75	2+2d6/25 L=370	1.00	2.96	38,39,33,58
			345.0	1.03	0.91	4d14 2+2 d14	0.12	0.74	2+2d6/25 L=370	1.00	2.96	39,39,33,58
	[b=1.0;1.0]		530.0	1.03	0.91	4d14 2+2 d14	1.59	0.74	2+2d6/25 L=370	1.00	2.96	38,39,33,58
					<b>M_P= 40</b>	<b>X=297.5</b>	<b>Y=277.8</b>					
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
158	s=5,m=164	NV,NV	530.0	1.03	1.45	4d14 2+2 d14	1.34	0.47	2+2d6/25 L=375	1.03	6.74	40,37,36,36
			717.5	1.03	1.45	4d14 2+2 d14	0.23	0.45	2+2d6/25 L=375	1.04	6.74	18,37,36,36
	[b=1.0;1.0]		905.0	1.03	1.45	4d14 2+2 d14	1.45	0.44	2+2d6/25 L=375	1.04	6.74	39,37,36,36
					<b>M_P= 41</b>	<b>X=297.5</b>	<b>Y=277.8</b>					
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
99	s=5,m=162	NV,NV	160.0	1.03	1.39	4d14 2+2 d14	1.40	0.75	2+2d6/25 L=370	1.00	3.72	39,37,40,36
			345.0	1.03	1.39	4d14 2+2 d14	0.26	0.75	2+2d6/25 L=370	1.00	3.73	20,37,36,36
	[b=1.0;1.0]		530.0	1.03	1.39	4d14 2+2 d14	1.29	0.74	2+2d6/25 L=370	1.00	3.76	39,37,36,36
					<b>M_P= 42</b>	<b>X=297.5</b>	<b>Y=277.8</b>					
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
33	s=3,m=161	ok,NV	-180.0	0.78	1.31	4d14 2+2 d14	0.36	1.22	2+2d6/25 L=340	8.723e+04	0.69	20,37,20,59
			-10.0	0.78	1.31	4d14 2+2 d14	0.35	1.21	2+2d6/25 L=340	8.723e+04	0.69	20,37,20,59
	[b=1.0;1.0]		160.0	0.78	1.31	4d14 2+2 d14	0.43	1.20	2+2d6/25 L=340	8.723e+04	0.69	58,37,20,59
					<b>M_P= 43</b>	<b>X=945.5</b>	<b>Y=277.8</b>					
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
115	s=5,m=162	NV,NV	160.0	1.03	1.56	4d14 2+2 d14	1.09	0.68	2+2d6/25 L=370	2.107e+04	2.94	37,36,20,33
			345.0	1.03	1.56	4d14 2+2 d14	0.35	0.67	2+2d6/25 L=370	2.14	2.94	20,36,20,33
	[b=1.0;1.0]		530.0	1.03	1.56	4d14 2+2 d14	0.96	0.66	2+2d6/25 L=370	1.00	2.94	38,36,37,33
					<b>M_P= 44</b>	<b>X=945.5</b>	<b>Y=277.8</b>					
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
34	s=3,m=161	ok,NV	-180.0	0.78	1.48	4d14 2+2 d14	0.61	1.13	2+2d6/25 L=340	1.738e+04	0.68	20,36,5,60
			-10.0	0.78	1.48	4d14 2+2 d14	0.60	1.12	2+2d6/25 L=340	1.738e+04	0.68	20,36,5,60
	[b=1.0;1.0]		160.0	0.78	1.48	4d14 2+2 d14	0.59	1.11	2+2d6/25 L=340	1.738e+04	0.68	20,36,5,60
					<b>M_P= 45</b>	<b>X=945.5</b>	<b>Y=277.8</b>					
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
16	s=5,m=164	NV,NV	530.0	1.03	1.62	4d14 2+2 d14	1.02	0.48	2+2d6/25 L=375	5.352e+04	3.50	38,34,20,33
			717.5	1.03	1.62	4d14 2+2 d14	0.31	0.46	2+2d6/25 L=375	5.352e+04	3.50	20,34,20,33
	[b=1.0;1.0]		905.0	1.03	1.62	4d14 2+2 d14	1.17	0.45	2+2d6/25 L=375	5.352e+04	3.50	38,34,20,33
					<b>M_P= 46</b>	<b>X=1565.5</b>	<b>Y=277.8</b>					
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
131	s=5,m=162	NV,NV	160.0	1.03	1.55	4d14 2+2 d14	1.09	0.67	2+2d6/25 L=370	1.00	2.99	36,34,36,36
			345.0	1.03	1.55	4d14 2+2 d14	0.34	0.66	2+2d6/25 L=370	1.00	2.99	20,34,36,36
	[b=1.0;1.0]		530.0	1.03	1.55	4d14 2+2 d14	0.96	0.65	2+2d6/25 L=370	1.00	2.99	39,34,36,36
					<b>M_P= 47</b>	<b>X=1565.5</b>	<b>Y=277.8</b>					
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
40	s=5,m=164	NV,NV	530.0	1.03	1.61	4d14 2+2 d14	1.01	0.47	2+2d6/25 L=375	4.717e+04	3.58	35,44,20,36
			717.5	1.03	1.61	4d14 2+2 d14	0.30	0.46	2+2d6/25 L=375	4.717e+04	3.58	20,44,20,36
	[b=1.0;1.0]		905.0	1.03	1.61	4d14 2+2 d14	1.16	0.44	2+2d6/25 L=375	4.717e+04	3.58	36,44,20,36
					<b>M_P= 48</b>	<b>X=1565.5</b>	<b>Y=277.8</b>					
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
35	s=3,m=161	ok,NV	-180.0	0.78	1.46	4d14 2+2 d14	0.59	1.11	2+2d6/25 L=340	1.899e+04	0.75	20,34,20,52
			-10.0	0.78	1.46	4d14 2+2 d14	0.58	1.10	2+2d6/25 L=340	1.899e+04	0.75	20,34,20,52
	[b=1.0;1.0]		160.0	0.78	1.46	4d14 2+2 d14	0.57	1.09	2+2d6/25 L=340	1.899e+04	0.75	20,34,20,52
					<b>M_P= 49</b>	<b>X=2197.5</b>	<b>Y=277.8</b>					
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
147	s=5,m=162	NV,NV	160.0	1.03	1.39	4d14 2+2 d14	1.43	0.74	2+2d6/25 L=370	1.00	4.66	33,35,49,33
			345.0	1.03	1.39	4d14 2+2 d14	0.28	0.73	2+2d6/25 L=370	1.00	4.69	49,35,33,33
	[b=1.0;1.0]		530.0	1.03	1.39	4d14 2+2 d14	1.28	0.72	2+2d6/25 L=370	1.00	4.72	38,35,33,33
					<b>M_P= 50</b>	<b>X=2197.5</b>	<b>Y=277.8</b>					
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
56	s=5,m=164	NV,NV	530.0	1.03	1.46	4d14 2+2 d14	1.35	0.47	2+2d6/25 L=375	1.06	6.66	34,35,33,33
			717.5	1.03	1.46	4d14 2+2 d14	0.40	0.45	2+2d6/25 L=375	1.07	6.66	54,35,33,33
	[b=1.0;1.0]		905.0	1.03	1.46	4d14 2+2 d14	1.47	0.44	2+2d6/25 L=375	1.07	6.66	33,35,33,33
					<b>M_P= 51</b>	<b>X=2197.5</b>	<b>Y=277.8</b>					
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
36	s=3,m=161	ok,NV	-180.0	0.78	1.31	4d14 2+2 d14	0.36	1.16	2+2d6/25 L=340	7.801e+04	0.94	20,35,20,54
			-10.0	0.78	1.31	4d14 2+2 d14	0.35	1.15	2+2d6/25 L=340	7.801e+04	0.94	20,35,20,54

	[b=1.0;1.0]		160.0	0.78	1.31	4d14 2+2 d14	0.55	1.14	2+2d6/25 L=340	7.801e+04	0.94	52,35,20,54
					<b>M_P= 52</b>	<b>X=2535.0</b>	<b>Y=277.8</b>					
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
134	s=1,m=161	ok,ok	-180.0	0.68	0.03	4d14 2+2 d14	0.07	0.12	3+3d6/25 L=35	0.13	0.19	37,33,49,49
			-162.5	0.68	0.03	4d14 2+2 d14	0.07	0.12	3+3d6/25 L=35	0.13	0.19	34,33,49,49
	[b=1.0;1.0]		-145.0	0.68	0.03	4d14 2+2 d14	0.06	0.12	3+3d6/25 L=35	0.13	0.19	34,33,49,49
238	s=1,m=161	ok,ok	-145.0	0.68	0.04	4d14 2+2 d14	0.06	0.12	3+3d6/25 L=50	0.05	0.06	34,49,41,41
			-120.0	0.68	0.04	4d14 2+2 d14	0.06	0.12	3+3d6/25 L=50	0.05	0.06	34,49,41,41
	[b=1.0;1.0]		-95.0	0.68	0.04	4d14 2+2 d14	0.05	0.12	3+3d6/25 L=50	0.05	0.06	35,49,41,41
203	s=1,m=161	ok,ok	-95.0	0.68	0.04	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.05	0.08	35,49,41,41
			-70.0	0.68	0.04	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.05	0.08	35,49,41,41
	[b=1.0;1.0]		-45.0	0.68	0.04	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.05	0.08	35,49,41,41
263	s=1,m=161	ok,ok	-45.0	0.68	0.04	4d14 2+2 d14	0.05	0.14	3+3d6/25 L=50	0.06	0.08	35,49,41,41
			-20.0	0.68	0.04	4d14 2+2 d14	0.05	0.14	3+3d6/25 L=50	0.06	0.08	35,49,41,41
	[b=1.0;1.0]		5.0	0.68	0.04	4d14 2+2 d14	0.05	0.14	3+3d6/25 L=50	0.06	0.08	35,49,41,41
179	s=1,m=161	ok,ok	5.0	0.68	0.03	4d14 2+2 d14	0.06	0.16	3+3d6/25 L=39	0.07	0.09	35,49,41,41
			24.4	0.68	0.03	4d14 2+2 d14	0.06	0.16	3+3d6/25 L=39	0.07	0.09	35,49,41,41
	[b=1.0;1.0]		43.8	0.68	0.03	4d14 2+2 d14	0.06	0.15	3+3d6/25 L=39	0.07	0.09	40,49,41,41
248	s=1,m=161	ok,ok	43.8	0.68	0.03	4d14 2+2 d14	0.06	0.17	3+3d6/25 L=39	0.12	0.15	40,49,56,53
			63.1	0.68	0.03	4d14 2+2 d14	0.07	0.17	3+3d6/25 L=39	0.12	0.15	40,49,56,53
	[b=1.0;1.0]		82.5	0.68	0.03	4d14 2+2 d14	0.08	0.17	3+3d6/25 L=39	0.12	0.15	36,49,56,53
221	s=1,m=161	ok,ok	82.5	0.68	0.03	4d14 2+2 d14	0.09	0.18	3+3d6/25 L=39	0.20	0.25	40,49,52,49
			101.9	0.68	0.03	4d14 2+2 d14	0.11	0.18	3+3d6/25 L=39	0.20	0.25	36,49,52,49
	[b=1.0;1.0]		121.2	0.68	0.03	4d14 2+2 d14	0.13	0.18	3+3d6/25 L=39	0.20	0.25	36,49,52,49
273	s=1,m=161	ok,ok	121.2	0.68	0.04	4d14 2+2 d14	0.15	0.20	3+3d6/25 L=39	0.29	0.30	36,33,52,49
			140.6	0.68	0.04	4d14 2+2 d14	0.19	0.20	3+3d6/25 L=39	0.29	0.30	36,33,52,49
	[b=1.0;1.0]		160.0	0.68	0.04	4d14 2+2 d14	0.24	0.19	3+3d6/25 L=39	0.29	0.30	36,33,52,49
					<b>M_P= 53</b>	<b>X=2535.0</b>	<b>Y=277.8</b>					
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
66	s=5,m=164	NV,NV	530.0	1.03	0.79	4d14 2+2 d14	2.98	0.45	2+2d6/25 L=375	2.21	12.47	52,49,54,52
			717.5	1.03	0.79	4d14 2+2 d14	0.15	0.44	2+2d6/25 L=375	2.21	12.47	49,49,54,52
	[b=1.0;1.0]		905.0	1.03	0.79	4d14 2+2 d14	3.24	0.42	2+2d6/25 L=375	2.21	12.47	52,49,54,52
					<b>M_P= 54</b>	<b>X=2535.0</b>	<b>Y=277.8</b>					
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
5	s=5,m=162	NV,NV	160.0	1.03	0.98	4d14 2+2 d14	3.86	0.88	2+2d6/25 L=370	1.84	14.29	52,49,54,52
			345.0	1.03	0.98	4d14 2+2 d14	0.21	0.88	2+2d6/25 L=370	1.84	14.29	49,49,54,52
	[b=1.0;1.0]		530.0	1.03	0.98	4d14 2+2 d14	3.53	0.87	2+2d6/25 L=370	1.84	14.29	52,49,54,52
					<b>M_P= 55</b>	<b>X=0.0</b>	<b>Y=872.5</b>					
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
47	s=1,m=161	ok,ok	-180.0	0.68	0.05	4d14 2+2 d14	0.10	0.38	3+3d6/25 L=35	0.16	0.23	58,35,58,58
			-162.5	0.68	0.05	4d14 2+2 d14	0.09	0.37	3+3d6/25 L=35	0.16	0.23	58,35,58,58
	[b=1.0;1.0]		-145.0	0.68	0.05	4d14 2+2 d14	0.08	0.37	3+3d6/25 L=35	0.16	0.23	58,35,58,58
224	s=1,m=161	ok,ok	-145.0	0.68	0.07	4d14 2+2 d14	0.08	0.40	3+3d6/25 L=50	0.20	0.29	58,35,58,58
			-120.0	0.68	0.07	4d14 2+2 d14	0.05	0.40	3+3d6/25 L=50	0.20	0.29	35,35,58,58
	[b=1.0;1.0]		-95.0	0.68	0.07	4d14 2+2 d14	0.05	0.39	3+3d6/25 L=50	0.20	0.29	35,35,58,58
183	s=1,m=161	ok,ok	-95.0	0.68	0.07	4d14 2+2 d14	0.06	0.45	3+3d6/25 L=50	0.24	0.33	35,35,58,58
			-70.0	0.68	0.07	4d14 2+2 d14	0.07	0.45	3+3d6/25 L=50	0.24	0.33	35,35,58,58
	[b=1.0;1.0]		-45.0	0.68	0.07	4d14 2+2 d14	0.09	0.45	3+3d6/25 L=50	0.24	0.33	35,35,58,58
249	s=1,m=161	ok,ok	-45.0	0.68	0.08	4d14 2+2 d14	0.11	0.54	3+3d6/25 L=50	0.23	0.38	35,35,38,58
			-20.0	0.68	0.08	4d14 2+2 d14	0.09	0.54	3+3d6/25 L=50	0.23	0.38	59,35,38,58
	[b=1.0;1.0]		5.0	0.68	0.08	4d14 2+2 d14	0.11	0.54	3+3d6/25 L=50	0.23	0.38	58,35,38,58
159	s=1,m=161	ok,ok	5.0	0.68	0.31	4d14 2+2 d14	0.54	0.92	3+3d6/25 L=155	0.51	0.71	34,35,46,58
			82.5	0.68	0.31	4d14 2+2 d14	0.65	0.92	3+3d6/25 L=155	0.51	0.71	34,35,46,58
	[b=1.0;1.0]		160.0	0.68	0.31	4d14 2+2 d14	0.84	0.91	3+3d6/25 L=155	0.51	0.71	38,35,46,58
					<b>M_P= 56</b>	<b>X=0.0</b>	<b>Y=872.5</b>					
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
76	s=5,m=164	NV,NV	530.0	1.03	0.64	4d14 2+2 d14	1.24	0.38	2+2d6/25 L=375	1.00	2.99	39,39,55,51
			717.5	1.03	0.64	4d14 2+2 d14	0.30	0.37	2+2d6/25 L=375	1.00	3.05	48,39,50,51
	[b=1.0;1.0]		905.0	1.03	0.64	4d14 2+2 d14	1.40	0.36	2+2d6/25 L=375	1.00	3.10	34,39,50,51
					<b>M_P= 57</b>	<b>X=0.0</b>	<b>Y=872.5</b>					
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
21	s=5,m=162	NV,NV	160.0	1.03	0.86	4d14 2+2 d14	1.72	0.71	2+2d6/25 L=370	1.00	2.54	34,35,55,38
			345.0	1.03	0.86	4d14 2+2 d14	0.11	0.70	2+2d6/25 L=370	1.00	2.54	34,35,55,38
	[b=1.0;1.0]		530.0	1.03	0.86	4d14 2+2 d14	1.49	0.69	2+2d6/25 L=370	1.00	2.54	34,35,55,38
					<b>M_P= 58</b>	<b>X=297.5</b>	<b>Y=872.5</b>					
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
122	s=5,m=164	NV,NV	530.0	1.03	1.13	4d14 2+2 d14	1.46	0.43	2+2d6/25 L=375	1.00	4.25	35,34,63,40
			717.5	1.03	1.13	4d14 2+2 d14	0.18	0.42	2+2d6/25 L=375	1.00	4.34	64,34,40,40
	[b=1.0;1.0]		905.0	1.03	1.13	4d14 2+2 d14	1.57	0.41	2+2d6/25 L=375	1.00	4.46	35,34,55,40
					<b>M_P= 59</b>	<b>X=297.5</b>	<b>Y=872.5</b>					
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
83	s=1,m=161	ok,ok	-180.0	0.68	0.04	4d14 2+2 d14	0.07	0.16	3+3d6/25 L=35	0.08	0.11	57,34,39,27
			-162.5	0.68	0.04	4d14 2+2 d14	0.06	0.16	3+3d6/25 L=35	0.08	0.11	57,34,39,27
	[b=1.0;1.0]		-145.0	0.68	0.04	4d14 2+2 d14	0.04	0.16	3+3d6/25 L=35	0.08	0.11	57,34,39,27
227	s=1,m=161	ok,ok	-145.0	0.68	0.05	4d14 2+2 d14	0.04	0.17	3+3d6/25 L=50	0.05	0.08	57,34,25,27

			-120.0	0.68	0.05	4d14 2+2 d14	0.04	0.17	3+3d6/25 L=50	0.05	0.08	20,34,25,27
	[b=1.0;1.0]		-95.0	0.68	0.05	4d14 2+2 d14	0.04	0.17	3+3d6/25 L=50	0.05	0.08	20,34,25,27
190	s=1,m=161	ok,ok	-95.0	0.68	0.05	4d14 2+2 d14	0.04	0.18	3+3d6/25 L=50	0.06	0.09	20,34,35,59
			-70.0	0.68	0.05	4d14 2+2 d14	0.04	0.18	3+3d6/25 L=50	0.06	0.09	20,34,35,59
	[b=1.0;1.0]		-45.0	0.68	0.05	4d14 2+2 d14	0.04	0.18	3+3d6/25 L=50	0.06	0.09	59,34,35,59
252	s=1,m=161	ok,ok	-45.0	0.68	0.06	4d14 2+2 d14	0.05	0.21	3+3d6/25 L=50	0.13	0.19	59,34,64,61
			-20.0	0.68	0.06	4d14 2+2 d14	0.08	0.21	3+3d6/25 L=50	0.13	0.19	59,34,64,61
	[b=1.0;1.0]		5.0	0.68	0.06	4d14 2+2 d14	0.10	0.21	3+3d6/25 L=50	0.13	0.19	59,34,64,61
166	s=1,m=161	ok,NV	5.0	0.68	0.41	4d14 2+2 d14	0.57	1.03	3+3d6/25 L=155	0.76	1.21	35,34,48,48
			82.5	0.68	0.41	4d14 2+2 d14	0.32	1.03	3+3d6/25 L=155	0.76	1.21	50,34,48,48
	[b=1.0;1.0]		160.0	0.68	0.41	4d14 2+2 d14	0.48	1.02	3+3d6/25 L=155	0.76	1.21	64,34,48,48
					<b>M_P=60</b>	<b>X=297.5</b>	<b>Y=872.5</b>					
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
45	s=5,m=162	NV,NV	160.0	1.03	1.15	4d14 2+2 d14	1.55	0.75	2+2d6/25 L=370	1.00	3.37	35,34,35,39
			345.0	1.03	1.15	4d14 2+2 d14	0.18	0.74	2+2d6/25 L=370	1.00	3.40	20,34,40,39
	[b=1.0;1.0]		530.0	1.03	1.15	4d14 2+2 d14	1.43	0.73	2+2d6/25 L=370	1.00	3.43	35,34,51,39
					<b>M_P=61</b>	<b>X=945.5</b>	<b>Y=872.5</b>					
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
84	s=1,m=161	ok,ok	-180.0	0.68	0.04	4d14 2+2 d14	0.08	0.12	3+3d6/25 L=35	0.06	0.11	60,43,59,59
			-162.5	0.68	0.04	4d14 2+2 d14	0.07	0.12	3+3d6/25 L=35	0.06	0.11	60,43,59,59
	[b=1.0;1.0]		-145.0	0.68	0.04	4d14 2+2 d14	0.06	0.12	3+3d6/25 L=35	0.06	0.11	60,43,59,59
228	s=1,m=161	ok,ok	-145.0	0.68	0.06	4d14 2+2 d14	0.06	0.13	3+3d6/25 L=50	0.04	0.08	60,43,55,59
			-120.0	0.68	0.06	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.04	0.08	20,43,55,59
	[b=1.0;1.0]		-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.12	3+3d6/25 L=50	0.04	0.08	20,43,55,59
191	s=1,m=161	ok,ok	-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.14	3+3d6/25 L=50	0.07	0.11	20,43,57,57
			-70.0	0.68	0.06	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.07	0.11	20,43,57,57
	[b=1.0;1.0]		-45.0	0.68	0.06	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.07	0.11	57,43,57,57
253	s=1,m=161	ok,ok	-45.0	0.68	0.07	4d14 2+2 d14	0.07	0.16	3+3d6/25 L=50	0.13	0.23	57,43,57,57
			-20.0	0.68	0.07	4d14 2+2 d14	0.09	0.16	3+3d6/25 L=50	0.13	0.23	57,43,57,57
	[b=1.0;1.0]		5.0	0.68	0.07	4d14 2+2 d14	0.12	0.16	3+3d6/25 L=50	0.13	0.23	57,43,57,57
167	s=1,m=161	ok,ok	5.0	0.68	0.46	4d14 2+2 d14	0.31	0.79	3+3d6/25 L=155	0.41	0.62	42,35,53,62
			82.5	0.68	0.46	4d14 2+2 d14	0.33	0.79	3+3d6/25 L=155	0.41	0.62	51,35,53,62
	[b=1.0;1.0]		160.0	0.68	0.46	4d14 2+2 d14	0.40	0.78	3+3d6/25 L=155	0.41	0.62	59,35,53,62
					<b>M_P=62</b>	<b>X=945.5</b>	<b>Y=872.5</b>					
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
93	s=5,m=164	NV,NV	530.0	1.03	1.26	4d14 2+2 d14	1.09	0.36	2+2d6/25 L=375	1.00	2.29	34,42,36,33
			717.5	1.03	1.26	4d14 2+2 d14	0.17	0.35	2+2d6/25 L=375	1.00	2.31	20,42,50,33
	[b=1.0;1.0]		905.0	1.03	1.26	4d14 2+2 d14	1.23	0.33	2+2d6/25 L=375	1.00	2.33	34,42,38,33
					<b>M_P=63</b>	<b>X=945.5</b>	<b>Y=872.5</b>					
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
59	s=5,m=162	NV,NV	160.0	1.03	1.29	4d14 2+2 d14	1.09	0.54	2+2d6/25 L=370	1.00	2.44	34,35,54,42
			345.0	1.03	1.29	4d14 2+2 d14	0.24	0.54	2+2d6/25 L=370	1.00	2.44	60,35,54,42
	[b=1.0;1.0]		530.0	1.03	1.29	4d14 2+2 d14	0.99	0.53	2+2d6/25 L=370	1.00	2.44	34,35,54,42
					<b>M_P=64</b>	<b>X=1565.5</b>	<b>Y=872.5</b>					
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
85	s=1,m=161	ok,ok	-180.0	0.68	0.04	4d14 2+2 d14	0.09	0.12	3+3d6/25 L=35	0.07	0.12	51,42,49,49
			-162.5	0.68	0.04	4d14 2+2 d14	0.06	0.12	3+3d6/25 L=35	0.07	0.12	28,42,49,49
	[b=1.0;1.0]		-145.0	0.68	0.04	4d14 2+2 d14	0.06	0.12	3+3d6/25 L=35	0.07	0.12	52,42,49,49
229	s=1,m=161	ok,ok	-145.0	0.68	0.06	4d14 2+2 d14	0.06	0.13	3+3d6/25 L=50	0.05	0.09	52,42,49,49
			-120.0	0.68	0.06	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.05	0.09	52,42,49,49
	[b=1.0;1.0]		-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.12	3+3d6/25 L=50	0.05	0.09	20,42,49,49
192	s=1,m=161	ok,ok	-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.06	0.11	20,34,57,57
			-70.0	0.68	0.06	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.06	0.11	20,34,57,57
	[b=1.0;1.0]		-45.0	0.68	0.06	4d14 2+2 d14	0.05	0.13	3+3d6/25 L=50	0.06	0.11	49,34,57,57
254	s=1,m=161	ok,ok	-45.0	0.68	0.07	4d14 2+2 d14	0.07	0.16	3+3d6/25 L=50	0.12	0.22	49,34,49,49
			-20.0	0.68	0.07	4d14 2+2 d14	0.09	0.16	3+3d6/25 L=50	0.12	0.22	49,34,49,49
	[b=1.0;1.0]		5.0	0.68	0.07	4d14 2+2 d14	0.12	0.16	3+3d6/25 L=50	0.12	0.22	49,34,49,49
168	s=1,m=161	ok,ok	5.0	0.68	0.46	4d14 2+2 d14	0.25	0.78	3+3d6/25 L=155	0.54	0.66	48,34,56,52
			82.5	0.68	0.46	4d14 2+2 d14	0.34	0.78	3+3d6/25 L=155	0.54	0.66	55,34,56,52
	[b=1.0;1.0]		160.0	0.68	0.46	4d14 2+2 d14	0.47	0.77	3+3d6/25 L=155	0.54	0.66	54,34,56,52
					<b>M_P=65</b>	<b>X=1565.5</b>	<b>Y=872.5</b>					
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
109	s=5,m=164	NV,NV	530.0	1.03	1.24	4d14 2+2 d14	1.06	0.36	2+2d6/25 L=375	1.00	2.33	35,44,33,36
			717.5	1.03	1.24	4d14 2+2 d14	0.20	0.34	2+2d6/25 L=375	1.00	2.35	54,44,43,36
	[b=1.0;1.0]		905.0	1.03	1.24	4d14 2+2 d14	1.23	0.33	2+2d6/25 L=375	1.00	2.37	35,44,43,36
					<b>M_P=66</b>	<b>X=1565.5</b>	<b>Y=872.5</b>					
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
69	s=5,m=162	NV,NV	160.0	1.03	1.28	4d14 2+2 d14	1.10	0.53	2+2d6/25 L=370	1.00	2.48	35,42,54,43
			345.0	1.03	1.28	4d14 2+2 d14	0.27	0.53	2+2d6/25 L=370	1.00	2.48	60,42,54,43
	[b=1.0;1.0]		530.0	1.03	1.28	4d14 2+2 d14	0.99	0.52	2+2d6/25 L=370	1.00	2.48	35,42,54,43
					<b>M_P=67</b>	<b>X=2197.5</b>	<b>Y=872.5</b>					
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
86	s=1,m=161	ok,ok	-180.0	0.68	0.04	4d14 2+2 d14	0.08	0.33	3+3d6/25 L=35	0.18	0.26	34,36,33,40
			-162.5	0.68	0.04	4d14 2+2 d14	0.06	0.33	3+3d6/25 L=35	0.18	0.26	50,36,33,40
	[b=1.0;1.0]		-145.0	0.68	0.04	4d14 2+2 d14	0.05	0.33	3+3d6/25 L=35	0.18	0.26	36,36,33,40

230	s=1,m=161	ok,ok	-145.0	0.68	0.06	4d14 2+2 d14	0.05	0.35	3+3d6/25 L=50	0.09	0.12	36,36,49,49
	[b=1.0;1.0]		-120.0	0.68	0.06	4d14 2+2 d14	0.05	0.35	3+3d6/25 L=50	0.09	0.12	36,36,49,49
			-95.0	0.68	0.06	4d14 2+2 d14	0.05	0.35	3+3d6/25 L=50	0.09	0.12	36,36,49,49
193	s=1,m=161	ok,ok	-95.0	0.68	0.07	4d14 2+2 d14	0.06	0.40	3+3d6/25 L=50	0.13	0.17	36,36,49,49
			-70.0	0.68	0.07	4d14 2+2 d14	0.06	0.40	3+3d6/25 L=50	0.13	0.17	36,36,49,49
	[b=1.0;1.0]		-45.0	0.68	0.07	4d14 2+2 d14	0.06	0.40	3+3d6/25 L=50	0.13	0.17	36,36,49,49
255	s=1,m=161	ok,ok	-45.0	0.68	0.07	4d14 2+2 d14	0.07	0.50	3+3d6/25 L=50	0.26	0.40	36,36,52,36
			-20.0	0.68	0.07	4d14 2+2 d14	0.08	0.50	3+3d6/25 L=50	0.26	0.40	40,36,52,36
	[b=1.0;1.0]		5.0	0.68	0.07	4d14 2+2 d14	0.12	0.50	3+3d6/25 L=50	0.26	0.40	40,36,52,36
169	s=1,m=161	ok,ok	5.0	0.68	0.07	4d14 2+2 d14	0.12	0.76	3+3d6/25 L=39	0.39	0.50	40,36,52,36
			24.4	0.68	0.07	4d14 2+2 d14	0.13	0.76	3+3d6/25 L=39	0.39	0.50	49,36,52,36
	[b=1.0;1.0]		43.8	0.68	0.07	4d14 2+2 d14	0.14	0.76	3+3d6/25 L=39	0.39	0.50	49,36,52,36
241	s=1,m=161	ok,ok	43.8	0.68	0.07	4d14 2+2 d14	0.14	0.73	3+3d6/25 L=39	0.28	0.37	49,36,55,54
			63.1	0.68	0.07	4d14 2+2 d14	0.16	0.73	3+3d6/25 L=39	0.28	0.37	49,36,55,54
	[b=1.0;1.0]		82.5	0.68	0.07	4d14 2+2 d14	0.19	0.72	3+3d6/25 L=39	0.28	0.37	49,36,55,54
212	s=1,m=161	ok,ok	82.5	0.68	0.07	4d14 2+2 d14	0.18	0.76	3+3d6/25 L=39	0.61	0.71	49,35,57,49
			101.9	0.68	0.07	4d14 2+2 d14	0.23	0.75	3+3d6/25 L=39	0.61	0.71	49,35,57,49
	[b=1.0;1.0]		121.2	0.68	0.07	4d14 2+2 d14	0.29	0.75	3+3d6/25 L=39	0.62	0.71	57,35,57,49
266	s=1,m=161	ok,NV	121.2	0.68	0.08	4d14 2+2 d14	0.31	0.81	3+3d6/25 L=39	0.74	1.03	57,35,52,52
			140.6	0.68	0.08	4d14 2+2 d14	0.36	0.81	3+3d6/25 L=39	0.74	1.03	54,35,52,52
	[b=1.0;1.0]		160.0	0.68	0.08	4d14 2+2 d14	0.41	0.81	3+3d6/25 L=39	0.74	1.03	54,35,52,52
						<b>M_P= 68 X=2197.5 Y=872.5</b>						
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
125	s=5,m=164	NV,NV	530.0	1.03	1.14	4d14 2+2 d14	1.42	0.44	2+2d6/25 L=375	1.00	4.15	34,35,38,33
			717.5	1.03	1.14	4d14 2+2 d14	0.39	0.42	2+2d6/25 L=375	1.00	4.23	54,35,33,33
	[b=1.0;1.0]		905.0	1.03	1.14	4d14 2+2 d14	1.52	0.41	2+2d6/25 L=375	1.00	4.35	34,35,54,33
						<b>M_P= 69 X=2197.5 Y=872.5</b>						
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
81	s=5,m=162	NV,NV	160.0	1.03	1.16	4d14 2+2 d14	1.65	0.72	2+2d6/25 L=370	1.01	6.13	54,35,54,54
			345.0	1.03	1.16	4d14 2+2 d14	0.40	0.72	2+2d6/25 L=370	1.01	6.13	54,35,54,54
	[b=1.0;1.0]		530.0	1.03	1.16	4d14 2+2 d14	1.46	0.71	2+2d6/25 L=370	1.02	6.13	34,35,54,54
						<b>M_P= 70 X=2535.0 Y=872.5</b>						
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
121	s=1,m=161	ok,ok	-180.0	0.68	0.04	4d14 2+2 d14	0.10	0.37	3+3d6/25 L=35	0.19	0.31	40,37,33,33
			-162.5	0.68	0.04	4d14 2+2 d14	0.07	0.37	3+3d6/25 L=35	0.19	0.31	40,37,33,33
	[b=1.0;1.0]		-145.0	0.68	0.04	4d14 2+2 d14	0.05	0.37	3+3d6/25 L=35	0.19	0.31	40,37,33,33
237	s=1,m=161	ok,ok	-145.0	0.68	0.06	4d14 2+2 d14	0.04	0.35	3+3d6/25 L=50	0.07	0.09	37,37,42,42
			-120.0	0.68	0.06	4d14 2+2 d14	0.04	0.35	3+3d6/25 L=50	0.07	0.09	37,37,42,42
	[b=1.0;1.0]		-95.0	0.68	0.06	4d14 2+2 d14	0.04	0.34	3+3d6/25 L=50	0.07	0.09	37,37,42,42
202	s=1,m=161	ok,ok	-95.0	0.68	0.06	4d14 2+2 d14	0.04	0.32	3+3d6/25 L=50	0.07	0.09	37,37,54,54
			-70.0	0.68	0.06	4d14 2+2 d14	0.04	0.32	3+3d6/25 L=50	0.07	0.09	37,37,54,54
	[b=1.0;1.0]		-45.0	0.68	0.06	4d14 2+2 d14	0.04	0.32	3+3d6/25 L=50	0.07	0.09	37,37,54,54
262	s=1,m=161	ok,ok	-45.0	0.68	0.05	4d14 2+2 d14	0.04	0.31	3+3d6/25 L=50	0.11	0.13	37,37,54,54
			-20.0	0.68	0.05	4d14 2+2 d14	0.04	0.30	3+3d6/25 L=50	0.11	0.13	37,37,54,54
	[b=1.0;1.0]		5.0	0.68	0.05	4d14 2+2 d14	0.04	0.30	3+3d6/25 L=50	0.11	0.13	37,37,54,54
178	s=1,m=161	ok,ok	5.0	0.68	0.04	4d14 2+2 d14	0.04	0.31	3+3d6/25 L=39	0.16	0.20	37,37,54,55
			24.4	0.68	0.04	4d14 2+2 d14	0.04	0.31	3+3d6/25 L=39	0.16	0.20	37,37,54,55
	[b=1.0;1.0]		43.8	0.68	0.04	4d14 2+2 d14	0.04	0.30	3+3d6/25 L=39	0.16	0.20	37,37,54,55
247	s=1,m=161	ok,ok	43.8	0.68	0.04	4d14 2+2 d14	0.04	0.32	3+3d6/25 L=39	0.23	0.31	37,37,55,55
			63.1	0.68	0.04	4d14 2+2 d14	0.04	0.32	3+3d6/25 L=39	0.23	0.31	37,37,55,55
	[b=1.0;1.0]		82.5	0.68	0.04	4d14 2+2 d14	0.06	0.32	3+3d6/25 L=39	0.23	0.31	49,37,55,55
220	s=1,m=161	ok,ok	82.5	0.68	0.05	4d14 2+2 d14	0.05	0.37	3+3d6/25 L=39	0.29	0.51	49,37,54,49
			101.9	0.68	0.05	4d14 2+2 d14	0.09	0.37	3+3d6/25 L=39	0.29	0.51	49,37,54,49
	[b=1.0;1.0]		121.2	0.68	0.05	4d14 2+2 d14	0.13	0.36	3+3d6/25 L=39	0.29	0.51	49,37,54,49
272	s=1,m=161	ok,ok	121.2	0.68	0.05	4d14 2+2 d14	0.13	0.41	3+3d6/25 L=39	0.25	0.37	49,33,49,49
			140.6	0.68	0.05	4d14 2+2 d14	0.10	0.41	3+3d6/25 L=39	0.25	0.37	49,33,49,49
	[b=1.0;1.0]		160.0	0.68	0.05	4d14 2+2 d14	0.07	0.41	3+3d6/25 L=39	0.25	0.37	49,33,49,49
						<b>M_P= 71 X=2535.0 Y=872.5</b>						
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
141	s=5,m=164	NV,NV	530.0	1.03	0.62	4d14 2+2 d14	1.90	0.33	2+2d6/25 L=375	1.54	9.00	55,37,54,49
			717.5	1.03	0.62	4d14 2+2 d14	0.24	0.32	2+2d6/25 L=375	1.55	9.00	54,37,54,49
	[b=1.0;1.0]		905.0	1.03	0.62	4d14 2+2 d14	2.22	0.31	2+2d6/25 L=375	1.56	9.00	55,37,54,49
						<b>M_P= 72 X=2535.0 Y=872.5</b>						
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
12	s=5,m=162	NV,NV	160.0	1.03	0.83	4d14 2+2 d14	2.51	0.63	2+2d6/25 L=370	1.37	10.56	52,37,54,55
			345.0	1.03	0.83	4d14 2+2 d14	0.33	0.63	2+2d6/25 L=370	1.38	10.56	52,37,54,55
	[b=1.0;1.0]		530.0	1.03	0.83	4d14 2+2 d14	1.93	0.62	2+2d6/25 L=370	1.38	10.56	55,37,54,55
<b>Pilas.</b>				<b>%Af</b>	<b>r. snell.</b>		<b>V N/M</b>	<b>V N sis</b>		<b>V V/T cls</b>	<b>V V/T acc</b>	
				1.03	1.62		5.59	1.22		8.723e+04	14.29	

Pilas.	V. SLV	Nodo	Ver. VC	Direz.	N fr	V fr	M fr	N dutt	LV	mud,pl	V cic	Cmb
					kN	kN	kN m	kN	m		kN	

Pilas.	V. SLV	Nodo	Ver. VC	Direz.	N fr	V fr	M fr	N dutt	LV	mud,pl	V cic	Cmb
1	NV	99	2.87	2	-81.12	94.95	126.10	-71.02	1.83	0.0	32.50	58
		85	2.95	2	-69.87	94.95	131.97	-59.77	1.92	0.0	30.58	58
5	NV	49	12.70	2	64.44	314.28	560.65	30.78	1.95	0.82	30.42	52
		77	12.70	2	75.54	314.28	505.76	41.88	1.75	0.58	34.38	52
6	NV	41	2.74	3	-47.40	93.79	158.71	-245.69	1.89	0.0	26.70	36
		59	2.78	3	-36.30	93.79	152.26	-234.59	1.81	0.0	26.26	36
12	NV	81	9.05	3	21.29	161.25	125.77	-259.15	2.02	0.06	24.31	49
		60	9.05	3	32.39	161.25	109.34	-248.05	1.68	0.0	24.39	49
16	NV	45	3.04	2	-196.30	107.56	175.43	-201.90	1.75	0.0	37.95	38
		52	3.04	2	-185.05	107.56	202.01	-190.65	2.00	0.0	33.02	38
17	NV	18	5.26	2	-66.25	109.30	152.87	-62.66	1.81	0.0	32.09	59
		88	5.26	2	-55.00	109.30	162.83	-51.41	1.94	0.0	29.47	59
21	NV	12	2.54	2	143.82	128.86	189.83	-337.91	1.95	0.0	31.78	35
		26	2.54	2	154.92	128.86	169.47	-326.81	1.75	0.0	35.35	35
22	NV	43	4.06	3	-262.45	104.12	168.14	-154.50	1.86	0.0	33.84	36
		69	4.16	3	-251.35	104.12	165.63	-143.40	1.84	0.0	33.71	36
28	NV	87	2.60	3	102.98	88.81	156.70	-376.08	1.91	0.0	24.39	39
		84	2.60	3	114.08	88.81	145.22	-364.98	1.79	0.0	24.39	39
29	ok	86	0.62	3	-220.10	32.61	1.13	-197.87	0.76	0.0	67.98	33
		101	0.62	3	-206.71	32.61	0.79	-184.48	2.64	0.0	32.86	33
30	ok	9	0.53	3	-217.52	28.12	8.18	-106.04	3.40	0.0	31.54	33
		55	0.53	3	-204.13	28.12	15.45	-92.65	3.40	0.0	31.32	33
31	ok	21	0.59	2	-409.50	41.07	27.57	-276.93	0.70	0.0	98.95	58
		41	0.59	2	-396.12	41.07	79.00	-263.54	2.70	0.0	43.82	58
32	ok	2	0.79	2	-309.64	55.23	51.30	-446.97	0.76	0.0	91.75	59
		87	0.79	2	-296.25	55.23	102.98	-433.59	2.64	0.0	43.08	59
33	ok	29	0.63	3	-692.82	33.24	24.95	-581.60	0.97	0.0	49.28	59
		96	0.63	3	-679.43	33.24	62.18	-568.22	2.43	0.0	30.23	59
34	ok	39	0.62	3	-763.36	32.66	26.84	-759.47	0.93	0.0	44.92	57
		68	0.62	3	-749.97	32.66	70.53	-746.08	2.47	0.0	28.14	57
35	ok	40	0.71	3	-758.48	37.69	33.65	-752.52	0.96	0.0	44.60	52
		76	0.71	3	-745.10	37.69	85.50	-739.13	2.44	0.0	28.30	52
36	ok	73	0.86	3	-528.86	45.47	43.07	-622.96	1.02	0.0	59.29	52
		3	0.86	3	-515.48	45.47	100.59	-609.57	2.38	0.0	35.22	52
40	NV	91	3.07	2	-192.18	107.02	175.40	-198.07	1.75	0.0	37.86	39
		54	3.07	2	-180.93	107.02	201.36	-186.82	2.00	0.0	32.94	39
41	NV	24	2.95	2	-63.03	76.42	90.68	-80.49	1.75	0.0	33.00	59
		38	3.14	2	-51.78	76.42	103.89	-69.24	2.00	0.0	28.29	59
45	NV	15	3.36	2	-486.63	161.88	204.10	-175.23	1.87	0.0	48.05	35
		23	3.41	2	-475.53	161.88	195.35	-164.13	1.83	0.0	49.30	35
46	NV	44	2.94	2	-223.51	145.07	2.60	-213.68	1.92	0.0	43.53	33
		74	2.97	2	-212.41	145.07	2.93	-202.58	1.78	0.0	46.63	33
47	ok	17	0.15	3	-55.65	13.40	9.71	-22.96	0.35	0.0	85.68	58
		528	0.15	3	-54.08	13.40	7.15	-21.38	0.35	0.0	85.16	58
56	NV	75	5.91	2	-195.03	122.94	175.06	-135.43	1.80	0.0	37.03	38
		56	5.91	2	-183.78	122.94	194.91	-124.18	1.95	0.0	33.83	38
57	NV	37	5.28	2	-77.17	109.88	152.84	-65.24	1.82	0.0	32.60	59
		27	5.28	2	-65.92	109.88	162.21	-53.99	1.93	0.0	30.09	59
59	NV	20	2.28	2	-376.01	141.22	4.43	-370.60	1.91	0.0	46.92	34
		28	2.28	2	-364.91	141.22	5.24	-359.50	1.79	0.0	50.17	34
60	NV	46	3.06	2	-239.54	149.84	257.28	-220.36	1.91	0.0	44.26	36
		79	3.09	2	-228.44	149.84	240.53	-209.26	1.79	0.0	46.98	36
62	NV	53	6.43	3	-129.86	114.51	1.49	-274.88	1.93	0.0	29.93	33
		94	6.43	3	-118.76	114.51	4.34	-263.78	1.77	0.0	30.03	33
66	NV	77	11.07	2	5.65	230.26	380.02	-1.26	1.81	0.45	27.38	52
		62	11.07	2	16.90	230.26	407.23	9.99	1.94	0.63	25.25	52
67	NV	59	4.81	3	-23.13	72.02	113.47	-83.85	1.81	0.0	21.09	36
		16	4.81	3	-11.88	72.02	122.26	-72.60	1.94	0.0	20.48	36
69	NV	34	2.31	2	-377.12	143.07	210.28	-364.64	1.91	0.0	46.95	35
		32	2.31	2	-366.02	143.07	195.39	-353.54	1.79	0.0	50.17	35
70	NV	78	7.53	2	-185.48	186.23	7.28	-70.83	1.93	0.02	41.98	33
		92	7.53	2	-174.38	186.23	9.97	-59.73	1.77	0.0	45.24	33
76	NV	26	3.31	2	41.74	94.56	118.00	-109.35	1.75	0.0	28.88	35
		63	3.42	2	52.99	94.56	135.49	-98.10	2.00	0.0	25.25	35
77	NV	69	3.45	3	-103.89	80.63	125.76	-73.08	1.84	0.0	24.27	36
		8	3.55	3	-92.64	80.63	132.64	-61.83	1.91	0.0	23.76	36
78	ok	95	0.28	2	-239.67	29.79	10.72	-206.25	0.35	0.0	147.22	59
		370	0.28	2	-238.09	29.79	3.35	-204.67	0.35	0.0	146.89	59
79	ok	33	0.11	3	-58.08	9.87	2.77	-61.65	0.35	0.0	86.47	60
		381	0.11	3	-56.50	9.87	3.39	-60.07	0.35	0.0	85.96	60
81	NV	35	7.28	2	-306.62	180.04	12.52	-193.43	1.92	0.0	45.64	34
		31	7.28	2	-295.52	180.04	17.07	-182.33	1.78	0.0	49.24	34
82	NV	80	9.86	3	-669.29	175.57	313.09	-302.07	1.95	0.08	29.40	52
		100	9.86	3	-658.19	175.57	281.13	-290.97	1.75	0.0	30.47	52

Pilas.	V. SLV	Nodo	Ver. VC	Direz.	N fr	V fr	M fr	N dutt	LV	mud,pl	V cic	Cmb
83	ok	25	0.11	3	-74.89	9.83	9.21	-58.41	0.35	0.0	91.86	59
		519	0.11	3	-73.31	9.83	5.92	-56.83	0.35	0.0	91.37	59
84	ok	93	0.11	3	-93.29	10.39	3.20	-94.47	0.35	0.0	97.51	59
		510	0.11	3	-91.72	10.39	3.59	-92.89	0.35	0.0	97.04	59
85	ok	11	0.12	3	-90.23	11.10	6.61	-92.33	0.23	0.0	114.07	49
		494	0.12	3	-88.66	11.10	0.69	-90.75	0.12	0.0	158.23	49
86	ok	42	0.25	2	84.61	26.17	8.74	-178.19	0.35	0.0	71.73	40
		485	0.25	2	86.18	26.17	2.39	-176.61	0.35	0.0	71.73	40
93	NV	28	2.42	2	-144.21	109.53	4.03	-151.17	1.75	0.0	36.58	34
		66	2.46	2	-132.96	109.53	3.50	-139.92	2.00	0.0	31.73	34
94	NV	79	5.43	2	-82.96	115.58	178.51	-92.09	1.75	0.0	33.97	36
		13	5.56	2	-71.71	115.58	204.58	-80.84	2.00	0.0	29.34	36
99	NV	96	3.33	2	-539.91	164.38	257.08	-296.46	1.91	0.0	46.45	39
		22	3.37	2	-528.81	164.38	234.92	-285.36	1.79	0.0	49.65	39
100	NV	101	1.86	2	-167.99	115.17	151.33	-150.73	1.72	0.0	46.30	58
		99	1.86	2	-156.89	115.17	174.84	-139.63	1.98	0.0	39.58	58
102	ok	72	0.23	2	-183.85	15.85	7.20	-83.20	0.35	0.0	119.81	58
		331	0.23	2	-182.48	15.85	10.67	-81.82	0.35	0.0	119.48	58
103	ok	48	0.23	3	103.44	21.39	1.22	-155.67	0.35	0.0	66.15	38
		216	0.23	3	105.02	21.39	6.57	-154.10	0.35	0.0	66.15	38
104	ok	97	0.27	2	-52.21	28.45	9.94	-91.34	0.35	0.0	92.43	59
		226	0.27	2	-50.63	28.45	2.39	-89.76	0.35	0.0	91.84	59
105	ok	83	0.30	2	-110.13	31.69	8.47	-51.84	0.35	0.0	112.62	58
		231	0.30	2	-108.55	31.69	2.17	-50.26	0.35	0.0	112.11	58
109	NV	32	2.45	2	-139.88	109.31	143.93	-147.90	1.75	0.0	36.40	35
		67	2.49	2	-128.63	109.31	165.40	-136.65	2.00	0.0	31.62	35
110	NV	92	6.20	2	-70.74	128.86	8.79	-39.83	1.80	0.0	32.59	33
		19	6.20	2	-59.49	128.86	7.60	-28.58	1.95	0.0	29.46	33
115	NV	68	2.59	2	-486.48	145.20	263.51	-473.76	1.94	0.0	46.30	38
		45	2.59	2	-475.38	145.20	237.78	-462.66	1.76	0.0	51.12	38
116	NV	1	4.98	2	-224.20	170.06	250.05	-197.09	1.91	0.0	43.70	59
		18	5.10	2	-213.10	170.06	234.00	-185.99	1.79	0.0	46.51	59
119	ok	89	0.29	2	141.43	30.16	11.10	-171.43	0.35	0.0	71.73	39
		399	0.29	2	143.01	30.16	2.74	-169.85	0.35	0.0	71.73	39
120	ok	57	0.30	2	159.66	31.90	14.74	-198.17	0.35	0.0	71.73	38
		256	0.30	2	161.23	31.90	6.48	-196.60	0.35	0.0	71.73	38
121	ok	58	0.28	2	134.40	29.82	11.45	-173.01	0.35	0.0	71.73	37
		431	0.28	2	135.97	29.82	5.11	-171.44	0.35	0.0	71.73	37
122	NV	23	4.49	2	-171.80	125.78	145.37	-82.93	1.82	0.0	36.16	35
		65	4.72	2	-160.55	125.78	159.50	-71.68	1.93	0.0	33.67	35
125	NV	31	4.44	2	-117.64	123.98	15.17	-85.77	1.80	0.0	34.69	34
		70	4.65	2	-106.39	123.98	13.33	-74.52	1.95	0.0	31.65	34
126	NV	100	8.49	3	-218.86	127.10	209.50	-106.23	1.81	0.0	26.53	52
		47	8.49	3	-207.61	127.10	224.35	-94.98	1.94	0.07	25.95	52
127	NV	82	5.58	3	-31.52	83.49	89.58	-79.24	1.76	0.0	21.54	36
		30	5.58	3	-20.27	83.49	105.98	-67.99	1.99	0.0	20.86	36
131	NV	76	2.63	2	-476.67	146.09	268.85	-466.89	1.94	0.0	46.34	39
		91	2.63	2	-465.57	146.09	242.97	-455.79	1.76	0.0	51.22	39
132	NV	55	1.86	2	-185.81	100.61	126.90	-231.09	1.82	0.0	44.60	59
		24	1.88	2	-174.71	100.61	132.37	-219.99	1.88	0.0	42.68	59
134	ok	14	0.19	2	-23.10	19.72	1.03	-67.73	0.35	0.0	81.18	49
		266	0.19	2	-21.52	19.72	1.15	-66.15	0.35	0.0	80.55	49
138	NV	74	5.38	2	-84.33	111.98	1.80	-85.41	1.75	0.0	34.16	33
		10	5.38	2	-73.08	111.98	1.33	-74.16	2.00	0.0	29.34	33
141	NV	60	7.60	3	-8.64	113.78	80.24	-88.97	1.74	0.0	20.38	49
		98	7.60	3	2.61	113.78	88.79	-77.72	2.01	0.01	19.89	49
142	NV	84	4.46	2	-47.91	92.76	125.22	-24.76	1.81	0.0	31.09	58
		50	4.46	2	-36.66	92.76	132.67	-13.51	1.94	0.0	28.42	58
143	NV	94	5.65	3	-44.34	84.60	4.91	-89.83	1.78	0.0	22.13	33
		7	5.65	3	-33.09	84.60	3.38	-78.58	1.97	0.0	21.43	33
145	NV	5	7.34	3	-67.01	130.78	180.61	-221.47	1.98	0.0	27.44	36
		82	7.34	3	-55.91	130.78	151.55	-210.37	1.72	0.0	27.34	36
147	NV	3	4.15	2	-517.41	168.17	265.39	-300.64	1.91	0.0	46.83	38
		75	4.21	2	-506.31	168.17	244.84	-289.54	1.79	0.0	49.92	38
148	NV	64	5.35	2	-154.34	170.46	249.58	-123.62	1.91	0.0	41.07	59
		37	5.53	2	-143.24	170.46	233.71	-112.52	1.79	0.0	43.44	59
150	ok	4	0.12	3	-59.49	11.09	11.13	-58.94	0.25	0.0	97.15	52
		390	0.12	3	-57.92	11.09	4.40	-57.37	0.10	0.0	139.39	52
158	NV	22	5.88	2	-196.52	122.32	168.44	-135.48	1.80	0.0	36.92	40
		51	5.88	2	-185.27	122.32	187.22	-124.23	1.95	0.0	33.99	40
159	ok	117	0.62	3	-120.84	56.92	22.23	-50.85	1.55	0.0	56.02	58
		12	0.62	3	-113.86	56.92	75.73	-43.88	1.55	0.0	55.57	58
164	ok	107	0.79	3	135.83	73.32	47.26	-170.28	0.39	0.0	65.56	40
		474	0.79	3	137.58	73.32	26.96	-168.53	0.39	0.0	65.56	40



Pilas.	V. SLV	Nodo	Ver. VC	Direz.	N fr	V fr	M fr	N dutt	LV	mud,pl	V cic	Cmb
165	ok	108	0.51	2	-341.72	53.72	66.89	-378.93	1.55	0.0	75.48	44
		44	0.51	2	-334.75	53.72	47.84	-371.96	1.55	0.0	75.28	44
166	NV	116	1.18	2	-695.14	123.96	74.12	-326.21	1.06	0.0	84.75	43
		15	1.18	2	-688.17	123.96	3.34	-319.24	0.49	0.0	121.24	43
167	ok	115	0.54	2	-616.16	56.52	66.64	-595.80	1.55	0.0	75.11	41
		20	0.54	2	-609.19	56.52	61.17	-588.82	1.55	0.0	75.52	41
168	ok	114	0.61	3	-608.16	55.87	30.45	-593.64	1.55	0.0	65.12	52
		34	0.61	3	-601.19	55.87	96.27	-586.66	1.55	0.0	65.49	52
169	ok	113	0.37	2	168.66	39.31	11.96	-412.70	0.39	0.0	71.19	40
		503	0.37	2	170.40	39.31	2.77	-410.96	0.39	0.0	71.19	40
172	ok	103	0.22	2	113.88	15.28	14.77	-16.56	0.39	0.0	59.00	59
		478	0.22	2	115.41	15.28	18.13	-15.04	0.39	0.0	59.00	59
173	ok	104	0.12	3	-35.58	10.94	0.21	-137.71	0.39	0.0	77.09	33
		276	0.12	3	-33.84	10.94	0.36	-135.97	0.39	0.0	76.54	33
174	ok	105	0.08	3	-115.72	7.51	15.62	16.61	0.39	0.0	99.77	38
		286	0.08	3	-113.98	7.51	14.65	18.35	0.39	0.0	99.32	38
175	ok	106	0.09	3	-41.10	7.84	0.28	-14.70	0.39	0.0	78.80	34
		291	0.09	3	-39.36	7.84	0.68	-12.96	0.39	0.0	78.26	34
176	ok	110	0.43	2	306.19	44.87	16.03	-379.63	0.39	0.0	71.19	35
		549	0.43	2	307.93	44.87	4.09	-377.89	0.39	0.0	71.19	35
177	ok	111	0.06	2	-274.60	6.66	1.67	60.10	0.39	0.0	145.55	36
		261	0.06	2	-272.85	6.66	3.89	61.85	0.39	0.0	145.26	36
178	ok	112	0.07	3	91.23	6.58	0.70	-116.73	0.39	0.0	65.56	49
		440	0.07	3	92.98	6.58	0.32	-114.98	0.39	0.0	65.56	49
179	ok	119	0.04	3	24.67	3.64	7.51	-49.21	0.39	0.0	65.56	42
		271	0.04	3	26.42	3.64	7.75	-47.47	0.39	0.0	65.56	42
181	ok	109	0.61	3	-349.29	55.85	10.57	-373.06	1.55	0.0	65.74	49
		46	0.61	3	-342.31	55.85	41.35	-366.09	1.55	0.0	65.58	49
183	ok	207	0.17	3	-59.78	15.85	0.98	-19.76	0.50	0.0	78.39	58
		326	0.17	3	-57.53	15.85	2.73	-17.51	0.50	0.0	77.88	58
188	ok	140	0.41	3	122.06	37.57	2.08	-139.25	0.50	0.0	63.78	36
		236	0.41	3	124.31	37.57	15.75	-137.00	0.50	0.0	63.78	36
189	ok	144	0.10	3	-65.42	9.52	4.38	-63.20	0.50	0.0	79.67	58
		241	0.10	3	-63.17	9.52	7.09	-60.95	0.50	0.0	79.16	58
190	ok	203	0.09	3	-81.80	8.44	2.79	-63.97	0.50	0.0	83.28	59
		321	0.09	3	-79.55	8.44	4.09	-61.72	0.50	0.0	82.79	59
191	ok	199	0.10	3	-105.35	9.47	4.23	-103.42	0.50	0.0	88.21	57
		316	0.10	3	-103.10	9.47	6.65	-101.17	0.50	0.0	87.76	57
192	ok	192	0.11	3	-98.53	9.81	4.78	-101.23	0.50	0.0	86.82	57
		306	0.11	3	-96.28	9.81	6.91	-98.98	0.50	0.0	86.35	57
193	ok	188	0.08	3	-272.56	7.67	0.91	-29.95	0.50	0.0	114.50	49
		301	0.08	3	-270.31	7.67	3.16	-27.70	0.50	0.0	114.25	49
196	ok	120	0.13	2	-183.99	9.18	13.24	-85.96	0.50	0.0	99.61	58
		211	0.13	2	-182.02	9.18	16.03	-83.99	0.50	0.0	99.28	58
197	ok	124	0.43	3	-206.36	39.51	13.16	98.12	0.50	0.0	105.93	35
		338	0.43	3	-204.11	39.51	27.54	100.37	0.50	0.0	105.59	35
198	ok	132	0.09	3	60.14	8.64	20.69	-101.06	0.50	0.0	63.78	39
		356	0.09	3	62.39	8.64	19.06	-98.81	0.50	0.0	63.78	39
199	ok	136	0.06	3	-41.69	5.08	0.32	-3.87	0.50	0.0	74.17	34
		364	0.06	3	-39.44	5.08	0.87	-1.62	0.50	0.0	73.64	34
200	ok	152	0.08	3	55.98	7.76	3.74	-79.02	0.50	0.0	63.78	52
		251	0.08	3	58.23	7.76	6.30	-76.77	0.50	0.0	63.78	52
201	ok	156	0.02	2	-16.38	2.62	0.48	-105.51	0.50	0.0	74.31	33
		406	0.02	2	-14.13	2.62	0.37	-103.26	0.50	0.0	73.67	33
202	ok	168	0.02	2	198.04	1.78	2.89	-104.08	0.50	0.0	69.59	42
		434	0.02	2	200.29	1.78	3.19	-101.83	0.50	0.0	69.59	42
203	ok	160	0.03	3	-12.71	3.16	7.99	-61.94	0.50	0.0	67.05	41
		416	0.03	3	-10.46	3.16	7.54	-59.69	0.50	0.0	66.47	41
205	ok	148	0.11	3	-63.55	9.82	4.16	-62.29	0.50	0.0	79.25	60
		246	0.11	3	-61.30	9.82	6.39	-60.04	0.50	0.0	78.74	60
211	ok	184	0.61	3	-155.83	56.60	17.23	-23.19	0.23	0.0	140.71	40
		477	0.61	3	-154.08	56.60	0.92	-21.45	0.15	0.0	178.77	40
212	ok	196	0.44	3	-54.04	40.60	31.37	-245.32	0.39	0.0	82.72	52
		311	0.44	3	-52.30	40.60	45.59	-243.57	0.39	0.0	82.19	52
215	ok	185	0.77	2	187.31	53.77	27.87	-15.24	0.39	0.0	59.00	59
		296	0.77	2	188.84	53.77	40.67	-13.72	0.39	0.0	59.00	59
216	ok	172	0.49	2	-162.27	51.87	6.28	-181.46	0.39	0.0	122.29	58
		444	0.49	2	-160.52	51.87	18.02	-179.71	0.39	0.0	121.85	58
217	ok	178	0.17	3	41.76	16.03	14.87	-94.83	0.39	0.0	65.56	36
		460	0.17	3	43.51	16.03	18.74	-93.09	0.39	0.0	65.56	36
218	ok	181	0.17	3	-7.90	15.94	11.36	-92.33	0.39	0.0	68.19	36
		468	0.17	3	-6.15	15.94	10.48	-90.58	0.39	0.0	67.62	36
219	ok	161	0.41	3	61.13	37.52	0.83	-206.32	0.39	0.0	65.56	50
		417	0.41	3	62.88	37.52	0.76	-204.57	0.39	0.0	65.56	50

Pilas.	V. SLV	Nodo	Ver. VC	Direz.	N fr	V fr	M fr	N dutt	LV	mud,pl	V cic	Cmb
220	ok	171	0.37	3	71.32	34.22	0.36	-160.50	0.39	0.0	65.56	49
		443	0.37	3	73.07	34.22	0.16	-158.76	0.39	0.0	65.56	49
221	ok	164	0.20	2	-25.15	20.91	2.27	-98.29	0.39	0.0	80.47	49
		425	0.20	2	-23.41	20.91	5.25	-96.55	0.39	0.0	79.84	49
224	ok	528	0.13	3	-53.65	12.24	7.27	-18.55	0.39	0.0	82.35	58
		207	0.13	3	-51.40	12.24	1.16	-16.30	0.11	0.0	128.55	58
225	ok	370	0.12	3	11.18	11.09	0.43	-169.95	0.50	0.0	63.78	35
		140	0.12	3	13.43	11.09	4.25	-167.70	0.50	0.0	63.78	35
226	ok	381	0.08	3	-58.85	7.15	3.41	-63.03	0.50	0.0	78.18	60
		144	0.08	3	-56.60	7.15	4.24	-60.78	0.50	0.0	77.66	60
227	ok	519	0.08	3	-76.78	7.02	5.84	-59.60	0.29	0.0	98.93	59
		203	0.08	3	-74.53	7.02	2.69	-57.35	0.21	0.0	110.89	59
228	ok	510	0.08	3	-96.39	7.52	3.59	-97.69	0.50	0.0	86.37	59
		199	0.08	3	-94.14	7.52	4.07	-95.44	0.50	0.0	85.90	59
229	ok	494	0.09	3	-92.89	8.04	0.69	-95.52	0.50	0.0	85.64	49
		192	0.09	3	-90.64	8.04	0.73	-93.27	0.50	0.0	85.17	49
230	ok	485	0.09	3	-239.36	8.08	0.77	-27.52	0.50	0.0	110.50	49
		188	0.09	3	-237.11	8.08	0.79	-25.27	0.50	0.0	110.21	49
231	ok	331	0.16	2	-180.12	11.44	10.23	-82.93	0.50	0.0	98.96	58
		120	0.16	2	-178.15	11.44	13.91	-80.96	0.50	0.0	98.63	58
232	ok	216	0.34	3	-171.92	30.93	4.02	78.08	0.50	0.0	100.52	35
		124	0.34	3	-169.67	30.93	15.70	80.33	0.50	0.0	100.14	35
233	ok	226	0.12	3	61.56	11.21	21.96	-112.51	0.50	0.0	63.78	39
		132	0.12	3	63.81	11.21	20.97	-110.26	0.50	0.0	63.78	39
234	ok	231	0.08	3	53.91	6.94	22.29	-88.83	0.50	0.0	63.78	35
		136	0.08	3	56.16	6.94	20.99	-86.58	0.50	0.0	63.78	35
235	ok	399	0.09	3	-209.47	8.11	0.33	0.58	0.50	0.0	106.38	50
		152	0.09	3	-207.22	8.11	1.56	2.83	0.50	0.0	106.05	50
236	ok	256	0.05	2	157.90	4.98	5.63	-184.57	0.50	0.0	69.59	38
		156	0.05	2	160.15	4.98	3.61	-182.32	0.50	0.0	69.59	38
237	ok	431	0.05	2	-28.75	5.68	0.16	-160.84	0.50	0.0	77.77	33
		168	0.05	2	-26.50	5.68	0.53	-158.59	0.50	0.0	77.15	33
238	ok	266	0.04	2	-24.51	4.01	1.15	-69.82	0.50	0.0	76.59	49
		160	0.04	2	-22.26	4.01	0.92	-67.57	0.50	0.0	75.97	49
239	ok	390	0.09	3	-60.76	8.03	4.41	-59.84	0.50	0.0	78.61	52
		148	0.09	3	-58.51	8.03	4.00	-57.59	0.50	0.0	78.10	52
240	ok	474	0.59	3	100.38	54.61	28.45	-152.00	0.39	0.0	65.56	40
		184	0.59	3	102.12	54.61	14.91	-150.26	0.39	0.0	65.56	40
241	ok	503	0.28	3	-181.94	25.51	19.57	-304.04	0.39	0.0	115.08	52
		196	0.28	3	-180.19	25.51	28.10	-302.30	0.39	0.0	114.72	52
242	ok	478	0.35	2	142.79	24.52	18.78	-15.13	0.39	0.0	59.00	59
		185	0.35	2	144.31	24.52	24.35	-13.60	0.39	0.0	59.00	59
243	ok	276	0.11	2	-247.29	11.83	4.92	-81.73	0.39	0.0	140.81	60
		172	0.11	2	-245.54	11.83	8.55	-79.99	0.39	0.0	140.48	60
244	ok	286	0.08	3	-83.25	7.01	3.66	-12.38	0.39	0.0	91.13	58
		178	0.08	3	-81.51	7.01	9.55	-10.63	0.39	0.0	90.64	58
245	ok	291	0.10	3	-46.54	8.98	0.59	-22.50	0.39	0.0	80.46	34
		181	0.10	3	-44.80	8.98	2.04	-20.75	0.39	0.0	79.93	34
246	ok	261	0.16	3	68.24	14.92	0.80	-175.21	0.39	0.0	65.56	50
		161	0.16	3	69.99	14.92	0.20	-173.46	0.39	0.0	65.56	50
247	ok	440	0.17	3	81.09	15.57	0.63	-131.43	0.39	0.0	65.56	49
		171	0.17	3	82.83	15.57	0.19	-129.68	0.39	0.0	65.56	49
248	ok	271	0.11	2	-26.03	11.21	0.88	-93.45	0.39	0.0	80.78	49
		164	0.11	2	-24.28	11.21	2.27	-91.71	0.39	0.0	80.15	49
249	ok	326	0.29	3	-78.46	27.07	3.59	-31.53	0.50	0.0	82.55	58
		117	0.29	3	-76.21	27.07	12.68	-29.28	0.50	0.0	82.06	58
250	ok	236	0.84	3	-341.39	77.62	16.37	-15.58	0.50	0.0	120.86	37
		107	0.84	3	-339.14	77.62	46.30	-13.33	0.50	0.0	120.70	37
251	ok	241	0.20	3	-70.41	18.63	12.00	-75.88	0.50	0.0	80.78	60
		108	0.20	3	-68.16	18.63	20.58	-73.63	0.50	0.0	80.28	60
252	ok	321	0.17	3	-102.13	15.85	5.73	-81.83	0.50	0.0	87.56	59
		116	0.17	3	-99.88	15.85	11.61	-79.58	0.50	0.0	87.09	59
253	ok	316	0.20	3	-126.57	18.26	9.46	-124.19	0.50	0.0	92.40	57
		115	0.20	3	-124.32	18.26	15.96	-121.94	0.50	0.0	91.97	57
254	ok	306	0.21	3	-117.78	19.45	9.86	-121.07	0.50	0.0	90.70	57
		114	0.21	3	-115.53	19.45	18.38	-118.82	0.50	0.0	90.25	57
255	ok	301	0.34	2	128.88	35.86	3.55	-265.46	0.50	0.0	69.59	40
		113	0.34	2	131.13	35.86	11.96	-263.21	0.50	0.0	69.59	40
256	ok	211	0.16	2	94.37	10.95	11.92	-18.90	0.50	0.0	57.39	59
		103	0.16	2	96.34	10.95	14.87	-16.93	0.50	0.0	57.39	59
257	ok	338	0.21	3	-254.54	19.79	25.11	125.02	0.50	0.0	112.40	35
		104	0.21	3	-252.29	19.79	32.21	127.27	0.50	0.0	112.13	35
258	ok	356	0.08	3	-122.71	7.47	17.69	22.21	0.50	0.0	91.66	38
		105	0.08	3	-120.46	7.47	15.77	24.46	0.50	0.0	91.22	38

Pilas.	V. SLV	Nodo	Ver. VC	Direz.	N fr	V fr	M fr	N dutt	LV	mud,pl	V cic	Cmb
259	ok	364	0.07	3	-38.79	6.75	0.83	-7.79	0.50	0.0	73.48	34
		106	0.07	3	-36.54	6.75	0.24	-5.54	0.50	0.0	72.94	34
260	ok	251	0.37	2	214.89	38.61	3.97	-250.88	0.50	0.0	69.59	39
		110	0.37	2	217.14	38.61	16.00	-248.63	0.50	0.0	69.59	39
261	ok	406	0.04	2	253.24	4.10	2.44	-95.82	0.50	0.0	69.59	37
		111	0.04	2	255.49	4.10	3.95	-93.57	0.50	0.0	69.59	37
262	ok	434	0.03	3	19.40	2.64	0.09	57.35	0.50	0.0	63.78	52
		112	0.03	3	21.65	2.64	1.03	59.60	0.50	0.0	63.78	52
263	ok	416	0.03	3	19.34	3.21	7.31	-45.90	0.50	0.0	63.78	42
		119	0.03	3	21.59	3.21	7.18	-43.65	0.50	0.0	63.78	42
264	ok	246	0.21	3	-75.10	19.47	9.18	-73.43	0.50	0.0	81.82	60
		109	0.21	3	-72.85	19.47	17.12	-71.18	0.50	0.0	81.32	60
265	ok	477	0.81	3	-185.03	74.89	1.25	-57.13	0.39	0.0	115.72	36
		43	0.81	3	-183.28	74.89	5.21	-55.39	0.39	0.0	115.36	36
266	ok	311	0.64	3	-100.91	59.04	54.03	-290.02	0.39	0.0	95.92	52
		35	0.64	3	-99.17	59.04	74.92	-288.28	0.39	0.0	95.46	52
267	NV	296	2.62	3	145.96	55.35	11.66	-294.88	0.39	0.0	50.43	36
		5	2.62	3	147.49	55.35	1.07	-293.36	0.39	0.0	50.43	36
268	ok	444	0.57	3	-55.03	52.52	1.94	-221.82	0.39	0.0	83.01	34
		53	0.57	3	-53.29	52.52	1.21	-220.08	0.39	0.0	82.49	34
269	ok	460	0.36	3	57.80	32.94	21.00	-114.38	0.39	0.0	65.56	36
		1	0.36	3	59.54	32.94	30.03	-112.63	0.39	0.0	65.56	36
270	ok	468	0.29	3	-16.22	26.84	12.53	-115.52	0.39	0.0	70.92	36
		64	0.29	3	-14.48	26.84	9.57	-113.78	0.39	0.0	70.36	36
271	ok	417	0.27	3	54.15	25.29	1.60	-238.54	0.39	0.0	65.56	50
		80	0.27	3	55.89	25.29	1.09	-236.79	0.39	0.0	65.56	50
272	ok	443	0.31	3	59.07	29.01	0.60	-191.11	0.39	0.0	65.56	49
		81	0.31	3	60.81	29.01	0.47	-189.36	0.39	0.0	65.56	49
273	ok	425	0.25	2	-18.08	25.80	5.25	-106.38	0.39	0.0	77.91	49
		49	0.25	2	-16.33	25.80	1.48	-104.64	0.39	0.0	77.27	49
275	ok	549	0.28	3	-437.27	25.95	7.43	-86.10	0.39	0.0	145.07	49
		550	0.28	3	-435.53	25.95	11.28	-84.35	0.39	0.0	145.02	49
277	ok	550	0.45	3	-430.99	41.31	12.52	-107.66	0.39	0.0	144.89	49
		551	0.45	3	-429.25	41.31	18.66	-105.92	0.39	0.0	144.83	49
279	ok	551	0.65	3	-444.83	60.12	21.99	-99.97	0.39	0.0	145.25	49
		78	0.65	3	-443.09	60.12	30.96	-98.23	0.39	0.0	145.22	49
<b>Pilas.</b>			<b>Ver. VC</b>									
			12.70									

Pilas.I	Pilas.S	Nodo	SL cod	ver. (+)	V +	V + af s	N +	ver. (-)	V -	V - af s	N -	AreaV2	AreaV3	Rif. cmb
					kN	kN	kN		kN	kN	kN	cm2	cm2	
1		85	SLV:NV	4.86	0.0	322.30	0.0	1.24	0.0	322.30	0.0	942.0	856.0	58(2),58(2)
5	66	77	SLV:NV	4.75	-96.99	482.33	-41.32	1.14	88.12	-482.33	178.98	942.0	856.0	40(2),37(2)
6	67	59	SLV:NV	4.73	52.86	-482.33	50.45	1.05	52.86	-482.33	50.45	942.0	856.0	55(2),55(2)
12	141	60	SLV:NV	2.89	-39.55	241.16	-44.69	0.72	24.49	-238.09	119.83	942.0	856.0	40(3),41(3)
16		52	SLV:NV	3.81	0.0	252.71	0.0	0.98	0.0	252.71	0.0	942.0	856.0	39(2),39(2)
17		88	SLV:NV	6.02	0.0	-398.58	0.0	1.54	0.0	-398.58	0.0	942.0	856.0	59(2),59(2)
21	76	26	SLV:NV	3.28	-26.23	241.16	-73.66	0.77	36.26	-241.16	163.49	942.0	856.0	34(3),35(3)
22	77	69	SLV:NV	4.86	79.43	-482.33	51.83	1.16	74.50	-482.33	89.59	942.0	856.0	40(3),39(3)
28	142	84	SLV:NV	5.12	-67.02	482.33	-44.72	1.10	-52.27	482.33	90.40	942.0	856.0	34(2),48(2)
29	100	101	SLV:NV	1.92	107.91	-355.97	133.92	0.79	-109.22	348.32	165.08	1274.0	1188.0	61(2),64(2)
30	132	55	SLV:NV	2.86	66.98	-565.99	310.82	1.23	67.93	-565.99	314.85	1274.0	1650.0	40(3),36(3)
31	6	41	SLV:NV	2.38	117.15	-355.97	6.42	1.02	61.64	-242.57	328.14	1274.0	1188.0	61(2),48(3)
32	28	87	SLV:NV	3.60	-83.45	313.48	-173.34	1.63	88.81	-357.18	538.59	1274.0	1188.0	38(3),39(3)
33	99	96	SLV:NV	3.32	-161.14	585.78	219.73	1.48	132.97	-372.98	539.91	1274.0	1188.0	40(2),37(2)
34	115	68	SLV:NV	0.91	145.20	-370.30	470.31	1.31	145.07	-370.16	470.33	1274.0	1188.0	38(2),34(2)
35	131	76	SLV:NV	0.95	-146.09	374.45	463.56	1.30	-146.09	374.45	463.56	1274.0	1188.0	39(2),39(2)
36	147	3	SLV:NV	3.21	168.02	-586.58	233.73	1.48	-141.04	400.82	526.57	1274.0	1188.0	34(2),35(2)
40		54	SLV:NV	3.86	0.0	-255.82	0.0	0.99	0.0	-255.82	0.0	942.0	856.0	33(2),33(2)
41		38	SLV:NV	6.74	0.0	-558.32	0.0	1.73	0.0	-558.32	0.0	942.0	1177.0	36(3),36(3)
45	122	23	SLV:NV	4.34	-70.80	482.33	83.88	1.05	-70.80	482.33	83.88	942.0	856.0	44(2),44(2)
46	138	74	SLV:NV	4.08	68.69	-459.18	87.48	1.01	68.69	-459.18	87.48	942.0	856.0	41(2),41(2)
56		56	SLV:NV	5.60	0.0	-371.32	0.0	1.43	0.0	-371.32	0.0	942.0	856.0	34(2),34(2)
57		27	SLV:NV	6.74	0.0	558.32	0.0	1.73	0.0	558.32	0.0	942.0	1177.0	33(3),33(3)
59	93	28	SLV:NV	3.55	109.53	-482.33	153.07	1.06	109.53	-482.33	153.07	942.0	856.0	34(2),34(2)
60	94	79	SLV:NV	4.02	-69.75	457.39	91.96	1.01	-69.75	457.39	91.96	942.0	856.0	44(2),44(2)
62	143	94	SLV:NV	6.41	53.45	-522.00	-58.26	1.39	-58.36	522.00	150.69	942.0	856.0	35(3),34(3)
66		62	SLV:NV	7.22	0.0	-478.56	0.0	1.85	0.0	-478.56	0.0	942.0	856.0	49(2),49(2)
67		16	SLV:NV	5.28	0.0	-349.80	0.0	1.35	0.0	-349.80	0.0	942.0	856.0	59(2),59(2)
69	109	32	SLV:NV	3.60	-106.47	482.33	149.84	1.06	-106.47	482.33	149.84	942.0	856.0	39(2),39(2)
70	110	92	SLV:NV	4.73	57.74	-481.64	37.80	1.03	-105.26	482.33	126.14	942.0	856.0	57(2),35(2)

Pilas.I	Pilas.S	Nodo	SLV.cod	ver. (+)	V +	V + af s	N +	ver. (-)	V -	V - af s	N -	AreaV2	AreaV3	Rif. cmb
76		63	SLV:NV	3.97	0.0	-239.28	0.0	1.02	0.0	-239.28	0.0	942.0	856.0	59(3),59(3)
77		8	SLV:NV	5.71	0.0	-343.87	0.0	1.46	0.0	-343.87	0.0	942.0	856.0	36(3),36(3)
81	125	31	SLV:NV	4.31	69.02	-482.33	93.33	1.07	69.02	-482.33	93.33	942.0	856.0	41(2),41(2)
82	126	100	SLV:NV	3.11	40.38	-241.16	-115.11	0.73	-35.12	241.16	178.91	942.0	856.0	53(2),56(2)
93		66	SLV:NV	4.70	0.0	311.24	0.0	1.20	0.0	311.24	0.0	942.0	856.0	35(2),35(2)
94		13	SLV:NV	5.84	0.0	-387.09	0.0	1.50	0.0	-387.09	0.0	942.0	856.0	33(2),33(2)
99	158	22	SLV:NV	3.99	-79.84	482.33	132.86	1.10	-79.81	482.33	133.15	942.0	856.0	43(2),47(2)
100	1	99	SLV:NV	4.59	60.64	-482.33	59.57	1.07	-61.42	482.33	81.30	942.0	856.0	57(2),60(2)
109		67	SLV:NV	4.79	0.0	-317.32	0.0	1.23	0.0	-317.32	0.0	942.0	856.0	34(2),34(2)
110		19	SLV:NV	6.97	0.0	-461.68	0.0	1.78	0.0	-461.68	0.0	942.0	856.0	33(2),33(2)
115	16	45	SLV:NV	2.74	107.56	-428.03	204.02	1.01	107.56	-428.03	204.02	942.0	856.0	38(2),38(2)
116	17	18	SLV:NV	4.49	70.10	-482.33	56.94	1.06	-63.60	482.33	74.57	942.0	856.0	55(2),52(2)
122		65	SLV:NV	5.89	0.0	390.00	0.0	1.51	0.0	390.00	0.0	942.0	856.0	35(2),35(2)
125		70	SLV:NV	6.04	0.0	-400.47	0.0	1.55	0.0	-400.47	0.0	942.0	856.0	34(2),34(2)
126		47	SLV:NV	3.97	0.0	-239.28	0.0	1.02	0.0	-239.28	0.0	942.0	856.0	33(3),33(3)
127		30	SLV:NV	3.97	0.0	239.28	0.0	1.02	0.0	239.28	0.0	942.0	856.0	33(3),33(3)
131	40	91	SLV:NV	2.85	-105.37	434.51	199.14	1.03	-105.37	434.51	199.14	942.0	856.0	35(2),35(2)
132	41	24	SLV:NV	5.16	-24.54	562.72	-27.24	1.10	35.58	-562.72	130.72	942.0	1177.0	38(3),39(3)
138		10	SLV:NV	5.94	0.0	-393.44	0.0	1.52	0.0	-393.44	0.0	942.0	856.0	33(2),33(2)
141		98	SLV:NV	3.97	0.0	-239.28	0.0	1.02	0.0	-239.28	0.0	942.0	856.0	33(3),33(3)
142		50	SLV:NV	6.50	0.0	430.81	0.0	1.66	0.0	430.81	0.0	942.0	856.0	58(2),58(2)
143		7	SLV:NV	3.97	0.0	239.28	0.0	1.02	0.0	239.28	0.0	942.0	856.0	33(3),33(3)
145	127	82	SLV:NV	6.27	-50.96	520.59	-35.66	1.38	56.99	-522.00	142.07	942.0	856.0	53(3),60(3)
147	56	75	SLV:NV	3.99	80.81	-482.33	131.23	1.10	78.73	-482.33	136.24	942.0	856.0	42(2),45(2)
148	57	37	SLV:NV	4.77	33.97	-562.72	37.79	1.12	-8.96	562.72	99.34	942.0	1177.0	35(3),58(3)
158		51	SLV:NV	5.11	0.0	338.83	0.0	1.31	0.0	338.83	0.0	942.0	856.0	40(2),40(2)
159	21	12	SLV:NV	2.90	-34.23	-125.50	-237.67	1.14	47.60	-177.99	508.15	1456.0	1413.0	34(3),35(3)
165	46	44	SLV:NV	1.42	145.07	-385.23	199.72	0.74	145.07	-385.23	199.72	1456.0	1413.0	33(2),33(2)
166	45	15	SLV:NV	2.66	-129.46	485.13	118.58	1.12	140.38	-218.31	536.97	1456.0	1413.0	36(2),34(2)
167	59	20	SLV:ok	0.21	141.22	-237.59	364.91	0.81	-136.10	193.13	389.83	1456.0	1413.0	34(2),35(2)
168	69	34	SLV:ok	0.24	-143.07	245.34	359.86	0.80	73.24	0.0	378.22	1456.0	1413.0	35(2),58(2)
181	60	46	SLV:NV	1.36	-149.84	387.73	213.56	0.75	-149.84	387.73	213.56	1456.0	1413.0	36(2),36(2)
265	22	43	SLV:NV	3.21	97.30	-485.13	75.51	1.15	-8.94	144.91	510.01	1456.0	1413.0	40(3),61(3)
266	81	35	SLV:NV	1.68	-78.70	-260.37	413.49	1.36	-158.60	-159.98	513.13	1456.0	1413.0	63(2),39(2)
267	145	5	SLV:NV	2.11	91.03	-174.20	-175.49	1.02	-68.65	177.99	410.00	1274.0	1188.0	61(2),60(2)
268	62	53	SLV:NV	2.17	87.08	-2.21	-216.47	1.04	-91.42	-1.25	491.95	1456.0	1413.0	39(2),38(2)
269	116	1	SLV:ok	0.59	-162.27	48.00	129.13	0.56	163.93	-49.74	225.39	1456.0	1413.0	64(2),61(2)
270	148	64	SLV:NV	2.27	-79.15	564.34	292.64	0.99	-69.32	555.14	326.13	1456.0	2041.0	33(3),38(3)
271	82	80	SLV:NV	5.17	160.49	-33.44	-539.49	1.46	-160.60	28.87	669.29	1456.0	1413.0	51(3),50(3)
272	12	81	SLV:NV	1.79	-121.39	27.37	-159.46	0.98	125.43	-14.35	453.92	1456.0	1413.0	40(2),37(2)
273	5	49	SLV:NV	3.05	-314.28	112.81	-227.19	1.42	-92.24	340.38	578.95	1456.0	1413.0	52(2),33(3)
279	70	78	SLV:NV	1.43	26.16	-264.55	188.56	0.98	-176.64	-0.34	411.83	1456.0	1413.0	50(2),36(2)
<b>Pilas.I</b>				<b>ver. (+)</b>				<b>ver. (-)</b>						
				0.21				0.56						
				7.22				1.85						

Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	M T= 4	Z=160.0	P=38	P=54	Staffe	Rif. cmb
		cm						V N/M	V V/T cls	V V/T acc		L=cm	
101	NV,NV	0.0	0.40	7.7	7.7	0.0	0.09	0.73	0.58	1.79		2d6/25 L=258	40,36,36
	s=8,m=160	148.8	0.40	7.7	7.7	0.0	0.09	0.05	0.44	1.56		2d6/25 L=258	20,42,33
		297.5	0.40	7.7	7.7	0.0	0.09	1.15	0.62	2.32		2d6/25 L=258	38,42,33
117	NV,NV	0.0	0.40	7.7	7.7	0.0	0.09	1.54	0.62	2.62		2d6/25 L=603	40,5,5
	s=8,m=160	324.0	0.40	7.7	7.7	0.0	0.09	0.99	0.21	0.49		2d6/25 L=603	6,33,38
		647.9	0.40	7.7	7.7	0.0	0.09	1.81	0.66	2.78		2d6/25 L=603	5,6,6
133	NV,NV	0.0	0.40	7.7	7.7	0.0	0.09	1.84	0.61	2.59		2d6/25 L=575	36,6,6
	s=8,m=160	310.0	0.40	7.7	7.7	0.0	0.09	0.76	0.21	0.49		2d6/25 L=575	5,36,39
		620.0	0.40	7.7	7.7	0.0	0.09	1.62	0.60	2.58		2d6/25 L=575	6,6,5
149	NV,NV	0.0	0.40	7.7	7.7	0.0	0.09	1.79	0.64	2.73		2d6/25 L=587	36,6,6
	s=8,m=160	316.0	0.40	7.7	7.7	0.0	0.09	0.95	0.19	0.51		2d6/25 L=587	6,35,39
		632.0	0.40	7.7	7.7	0.0	0.09	1.38	0.60	2.54		2d6/25 L=587	5,5,5
7	NV,NV	0.0	0.40	7.7	7.7	0.0	0.09	1.13	1.00	1.99		2d6/25 L=295	39,60,35
	s=8,m=160	168.8	0.40	7.7	7.7	0.0	0.09	0.11	0.96	1.11		2d6/25 L=295	38,55,35
		337.5	0.40	7.7	7.7	0.0	0.09	0.70	1.00	1.75		2d6/25 L=295	34,54,34
<b>Trave</b>	<b>Note</b>	<b>Pos.</b>	<b>%Af</b>	<b>Af inf.</b>	<b>Af. sup</b>	<b>Af long.</b>	<b>x/d</b>	<b>M T= 5</b>	<b>Z=160.0</b>	<b>P=21</b>	<b>P=34</b>	<b>Staffe</b>	<b>Rif. cmb</b>
152	NV,NV	0.0	0.26	4.6	4.6	0.0	0.09	1.51	0.78	1.90		2d6/25 L=260	36,39,36
	s=7,m=160	148.8	0.26	4.6	4.6	0.0	0.09	0.25	0.80	1.68		2d6/25 L=260	58,38,33
		297.5	0.26	4.6	4.6	0.0	0.09	1.48	0.92	2.29		2d6/25 L=260	33,38,33
153	NV,NV	0.0	0.26	4.6	4.6	0.0	0.09	2.19	0.49	1.55		2d6/25 L=605	36,64,6
	s=7,m=160	324.0	0.26	4.6	4.6	0.0	0.09	0.86	0.29	0.45		2d6/25 L=605	6,58,33

		647.9	0.26	4.6	4.6	0.0	0.09	1.64	0.49	1.58	2d6/25 L=605	5,58,5	
8	NV,NV	0.0	0.26	4.6	4.6	0.0	0.09	3.05	0.39	1.56	2d6/25 L=575	36,36,36	
	s=7,m=160	310.0	0.26	4.6	4.6	0.0	0.09	0.74	0.19	0.59	2d6/25 L=575	5,36,36	
		620.0	0.26	4.6	4.6	0.0	0.09	1.52	0.35	1.54	2d6/25 L=575	38,33,33	
25	NV,NV	0.0	0.26	4.6	4.6	0.0	0.09	4.72	0.38	1.54	2d6/25 L=587	36,60,6	
	s=7,m=160	316.0	0.26	4.6	4.6	0.0	0.09	1.09	0.17	0.37	2d6/25 L=587	40,60,35	
		632.0	0.26	4.6	4.6	0.0	0.09	1.46	0.37	1.51	2d6/25 L=587	5,62,5	
26	NV,ok	0.0	0.26	4.6	4.6	0.0	0.09	2.62	1.00	0.38	2d6/25 L=61	39,55,36	
	s=7,m=160	41.6	0.26	4.6	4.6	0.0	0.09	5.00	1.00	0.51	2d6/25 L=61	39,56,36	
		83.1	0.26	4.6	4.6	0.0	0.09	8.43	1.00	0.64	2d6/25 L=61	35,52,36	
278	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.88	0.41	0.73	2d6/25 L=83	36,52,39	
	s=7,m=160	41.6	0.26	4.6	4.6	0.0	0.09	0.42	0.38	0.60	2d6/25 L=83	36,52,39	
		83.1	0.26	4.6	4.6	0.0	0.09	0.10	0.38	0.57	2d6/25 L=83	36,54,38	
276	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.04	0.24	0.55	2d6/25 L=83	52,51,35	
	s=7,m=160	41.6	0.26	4.6	4.6	0.0	0.09	0.10	0.22	0.42	2d6/25 L=83	35,50,35	
		83.1	0.26	4.6	4.6	0.0	0.09	0.19	0.24	0.53	2d6/25 L=83	34,50,34	
274	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.30	0.21	0.50	2d6/25 L=66	34,52,50	
	s=7,m=160	44.1	0.26	4.6	4.6	0.0	0.09	0.15	0.18	0.36	2d6/25 L=66	38,52,50	
		88.1	0.26	4.6	4.6	0.0	0.09	0.14	0.20	0.45	2d6/25 L=66	33,49,51	
								<b>M T= 6</b>	<b>Z=160.0</b>	<b>P=20</b>	<b>P=57</b>		
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	
137	NV,NV	0.0	0.39	3.4	3.4	0.0	0.14	0.77	0.64	1.28	2d6/30 L=277	64,40,64	
	s=10,m=160	150.0	0.39	3.4	3.4	0.0	0.14	0.37	0.50	0.90	2d6/30 L=277	60,40,61	
		300.0	0.39	3.4	3.4	0.0	0.14	1.30	0.57	1.65	2d6/30 L=277	61,37,61	
10	NV,NV	0.0	0.39	3.4	3.4	0.0	0.14	1.57	0.45	1.93	2d6/30 L=233	58,64,58	
	s=10,m=160	138.9	0.39	3.4	3.4	0.0	0.14	0.20	0.32	1.32	2d6/30 L=233	20,64,59	
		277.8	0.39	3.4	3.4	0.0	0.14	1.43	0.42	2.01	2d6/30 L=233	61,61,59	
9	NV,NV	0.0	0.39	3.4	3.4	0.0	0.14	2.32	0.44	2.16	2d6/30 L=552	5,20,3	
	s=10,m=160	297.4	0.39	3.4	3.4	0.0	0.14	1.24	0.14	0.30	2d6/30 L=552	19,51,59	
		594.7	0.39	3.4	3.4	0.0	0.14	2.36	0.44	2.17	2d6/30 L=552	20,20,20	
								<b>M T= 7</b>	<b>Z=160.0</b>	<b>P=13</b>	<b>P=16</b>		
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	
11	ok,NV	0.0	0.48	10.8	10.8	0.0	0.18	0.95	0.97	2.40	2d6/25 L=151	36,64,40	
	s=6,m=160	84.3	0.48	10.8	10.8	0.0	0.18	0.36	0.93	1.95	2d6/25 L=151	33,64,40	
		168.6	0.48	10.8	10.8	0.0	0.18	0.50	0.89	1.50	2d6/25 L=151	38,64,40	
24	ok,NV	0.0	0.48	10.8	10.8	0.0	0.18	0.53	0.29	1.05	2d6/25 L=278	34,39,35	
	s=6,m=160	148.8	0.48	10.8	10.8	0.0	0.18	0.26	0.33	1.62	2d6/25 L=278	36,38,34	
		297.5	0.48	10.8	10.8	0.0	0.18	0.93	0.40	2.34	2d6/25 L=278	38,38,34	
								<b>M T= 12</b>	<b>Z=160.0</b>	<b>P=3</b>	<b>P=15</b>		
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	
50	NV,NV	0.0	0.39	3.4	3.4	0.0	0.14	1.38	1.00	2.59	2d6/30 L=127	64,33,38	
	s=10,m=160	75.0	0.39	3.4	3.4	0.0	0.14	0.57	1.00	2.31	2d6/30 L=127	58,33,38	
		149.9	0.39	3.4	3.4	0.0	0.14	0.27	1.00	2.10	2d6/30 L=127	5,39,38	
23	NV,NV	0.0	0.39	3.4	3.4	0.0	0.14	0.27	1.00	1.21	2d6/30 L=146	5,38,38	
	s=10,m=160	84.0	0.39	3.4	3.4	0.0	0.14	0.63	1.00	1.36	2d6/30 L=146	58,39,39	
		168.1	0.39	3.4	3.4	0.0	0.14	1.35	1.00	2.32	2d6/30 L=146	59,36,39	
135	NV,NV	0.0	0.39	3.4	3.4	0.0	0.14	1.59	0.64	2.16	2d6/30 L=250	58,64,58	
	s=10,m=160	147.5	0.39	3.4	3.4	0.0	0.14	0.45	0.47	1.23	2d6/30 L=250	6,39,58	
		295.0	0.39	3.4	3.4	0.0	0.14	1.59	0.65	2.13	2d6/30 L=250	59,39,59	
								<b>M T= 13</b>	<b>Z=160.0</b>	<b>P=57</b>	<b>P=70</b>		
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	
27	NV,NV	0.0	0.26	4.6	4.6	0.0	0.09	2.01	0.58	2.52	2d6/25 L=253	35,43,35	
	s=7,m=160	148.8	0.26	4.6	4.6	0.0	0.09	0.16	0.63	2.13	2d6/25 L=253	38,38,34	
		297.5	0.26	4.6	4.6	0.0	0.09	2.01	0.78	2.90	2d6/25 L=253	38,38,34	
51	NV,NV	0.0	0.26	4.6	4.6	0.0	0.09	2.86	0.54	2.62	2d6/25 L=603	43,5,6	
	s=7,m=160	324.0	0.26	4.6	4.6	0.0	0.09	1.44	0.18	0.51	2d6/25 L=603	6,54,34	
		647.9	0.26	4.6	4.6	0.0	0.09	2.76	0.56	2.73	2d6/25 L=603	5,5,5	
61	NV,NV	0.0	0.26	4.6	4.6	0.0	0.09	3.77	0.53	2.58	2d6/25 L=575	35,6,6	
	s=7,m=160	310.0	0.26	4.6	4.6	0.0	0.09	1.22	0.17	0.55	2d6/25 L=575	5,39,35	
		620.0	0.26	4.6	4.6	0.0	0.09	2.45	0.52	2.55	2d6/25 L=575	5,5,5	
71	NV,NV	0.0	0.26	4.6	4.6	0.0	0.09	4.87	0.54	2.63	2d6/25 L=587	35,5,6	
	s=7,m=160	316.0	0.26	4.6	4.6	0.0	0.09	1.57	0.19	0.35	2d6/25 L=587	43,60,35	
		632.0	0.26	4.6	4.6	0.0	0.09	2.48	0.53	2.59	2d6/25 L=587	47,5,5	
72	NV,ok	0.0	0.26	4.6	4.6	0.0	0.09	1.35	1.00	0.38	2d6/25 L=61	36,55,35	
	s=7,m=160	41.6	0.26	4.6	4.6	0.0	0.09	3.07	1.00	0.60	2d6/25 L=61	40,52,35	
		83.1	0.26	4.6	4.6	0.0	0.09	7.63	1.00	0.87	2d6/25 L=61	40,62,20	
187	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.97	0.42	0.82	2d6/25 L=83	40,52,36	
	s=7,m=160	41.6	0.26	4.6	4.6	0.0	0.09	0.42	0.38	0.60	2d6/25 L=83	40,52,36	
		83.1	0.26	4.6	4.6	0.0	0.09	0.11	0.38	0.56	2d6/25 L=83	36,49,33	
163	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.07	0.25	0.58	2d6/25 L=83	20,56,40	
	s=7,m=160	41.6	0.26	4.6	4.6	0.0	0.09	0.09	0.20	0.37	2d6/25 L=83	40,56,40	
		83.1	0.26	4.6	4.6	0.0	0.09	0.19	0.24	0.55	2d6/25 L=83	37,53,37	
210	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.26	0.23	0.50	2d6/25 L=66	37,34,49	
	s=7,m=160	44.1	0.26	4.6	4.6	0.0	0.09	0.14	0.19	0.27	2d6/25 L=66	35,34,49	
		88.1	0.26	4.6	4.6	0.0	0.09	0.11	0.19	0.38	2d6/25 L=66	55,50,52	

		<b>M T= 15 Z=160.0 P=4 P=22</b>										
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
49	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.36	0.43	0.85	2d6/25 L=10	58,38,38
	s=7,m=160	16.5	0.26	4.6	4.6	0.0	0.09	0.60	0.44	0.89	2d6/25 L=10	58,38,38
		32.9	0.26	4.6	4.6	0.0	0.09	0.86	0.45	0.93	2d6/25 L=10	58,38,38
185	ok,NV	0.0	0.26	4.6	4.6	0.0	0.09	0.72	0.47	0.97	2d6/25 L=39	58,59,64
	s=7,m=160	19.5	0.26	4.6	4.6	0.0	0.09	0.52	0.48	0.96	2d6/25 L=39	58,59,61
		39.0	0.26	4.6	4.6	0.0	0.09	0.36	0.48	1.01	2d6/25 L=39	38,59,61
161	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.32	0.38	0.43	2d6/25 L=39	38,59,58
	s=7,m=160	19.5	0.26	4.6	4.6	0.0	0.09	0.24	0.39	0.38	2d6/25 L=39	38,59,58
		39.0	0.26	4.6	4.6	0.0	0.09	0.19	0.40	0.39	2d6/25 L=39	38,59,59
208	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.17	0.35	0.21	2d6/25 L=39	38,39,38
	s=7,m=160	19.5	0.26	4.6	4.6	0.0	0.09	0.13	0.36	0.16	2d6/25 L=39	38,39,38
		39.0	0.26	4.6	4.6	0.0	0.09	0.11	0.37	0.17	2d6/25 L=39	38,39,39
90	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.10	0.27	0.18	2d6/25 L=39	38,58,34
	s=7,m=160	19.6	0.26	4.6	4.6	0.0	0.09	0.07	0.25	0.08	2d6/25 L=39	38,58,34
		39.1	0.26	4.6	4.6	0.0	0.09	0.08	0.25	0.16	2d6/25 L=39	38,59,35
195	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.07	0.29	0.21	2d6/25 L=39	38,64,58
	s=7,m=160	19.6	0.26	4.6	4.6	0.0	0.09	0.04	0.27	0.11	2d6/25 L=39	34,61,58
		39.1	0.26	4.6	4.6	0.0	0.09	0.04	0.29	0.19	2d6/25 L=39	34,61,59
171	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.03	0.42	0.65	2d6/25 L=39	34,64,58
	s=7,m=160	19.6	0.26	4.6	4.6	0.0	0.09	0.06	0.40	0.55	2d6/25 L=39	64,64,58
		39.1	0.26	4.6	4.6	0.0	0.09	0.11	0.40	0.48	2d6/25 L=39	58,61,59
214	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.10	0.52	0.24	2d6/25 L=28	58,37,6
	s=7,m=160	25.4	0.26	4.6	4.6	0.0	0.09	0.12	0.49	0.10	2d6/25 L=28	58,37,33
		50.7	0.26	4.6	4.6	0.0	0.09	0.11	0.49	0.17	2d6/25 L=28	58,40,36
48	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.11	0.56	0.10	2d6/25 L=46	61,34,36
	s=7,m=160	34.4	0.26	4.6	4.6	0.0	0.09	0.11	0.58	0.11	2d6/25 L=46	59,34,33
		68.8	0.26	4.6	4.6	0.0	0.09	0.09	0.60	0.26	2d6/25 L=46	58,34,6
184	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.09	0.25	0.27	2d6/25 L=80	59,38,58
	s=7,m=160	40.2	0.26	4.6	4.6	0.0	0.09	0.07	0.22	0.21	2d6/25 L=80	59,38,59
		80.4	0.26	4.6	4.6	0.0	0.09	0.04	0.23	0.34	2d6/25 L=80	34,39,59
160	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.04	0.23	0.36	2d6/25 L=80	37,64,58
	s=7,m=160	40.2	0.26	4.6	4.6	0.0	0.09	0.05	0.20	0.24	2d6/25 L=80	58,64,58
		80.4	0.26	4.6	4.6	0.0	0.09	0.08	0.18	0.28	2d6/25 L=80	61,40,59
207	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.10	0.43	0.25	2d6/25 L=43	61,40,38
	s=7,m=160	32.7	0.26	4.6	4.6	0.0	0.09	0.12	0.42	0.14	2d6/25 L=43	38,40,38
		65.5	0.26	4.6	4.6	0.0	0.09	0.14	0.44	0.14	2d6/25 L=43	38,40,39
136	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.15	0.46	0.08	2d6/25 L=62	61,35,37
	s=7,m=160	42.2	0.26	4.6	4.6	0.0	0.09	0.11	0.47	0.13	2d6/25 L=62	61,35,20
		84.4	0.26	4.6	4.6	0.0	0.09	0.06	0.48	0.21	2d6/25 L=62	59,35,20
204	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.08	0.19	0.20	2d6/25 L=69	59,51,61
	s=7,m=160	34.8	0.26	4.6	4.6	0.0	0.09	0.03	0.20	0.25	2d6/25 L=69	33,51,61
		69.5	0.26	4.6	4.6	0.0	0.09	0.11	0.21	0.29	2d6/25 L=69	61,51,61
180	NV,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.44	0.29	0.73	2d6/25 L=69	57,61,58
	s=7,m=160	34.7	0.26	4.6	4.6	0.0	0.09	1.33	0.30	0.71	2d6/25 L=69	57,61,59
		69.5	0.26	4.6	4.6	0.0	0.09	2.34	0.31	0.76	2d6/25 L=69	57,61,59
222	NV,ok	0.0	0.26	4.6	4.6	0.0	0.09	9.98	0.41	0.78	2d6/25 L=54	61,59,61
	s=7,m=160	38.3	0.26	4.6	4.6	0.0	0.09	5.97	0.40	0.73	2d6/25 L=54	59,59,61
		76.6	0.26	4.6	4.6	0.0	0.09	5.29	0.39	0.68	2d6/25 L=54	59,59,61
		<b>M T= 16 Z=160.0 P=34 P=70</b>										
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
87	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.19	0.23	0.55	2d6/25 L=43	54,50,50
	s=7,m=160	31.6	0.26	4.6	4.6	0.0	0.09	0.42	0.23	0.57	2d6/25 L=43	50,50,50
		63.1	0.26	4.6	4.6	0.0	0.09	0.68	0.23	0.59	2d6/25 L=43	50,50,50
194	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.48	0.21	0.65	2d6/25 L=70	50,52,50
	s=7,m=160	35.1	0.26	4.6	4.6	0.0	0.09	0.27	0.21	0.63	2d6/25 L=70	50,52,50
		70.2	0.26	4.6	4.6	0.0	0.09	0.09	0.20	0.65	2d6/25 L=70	34,52,51
170	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.08	0.23	0.52	2d6/25 L=70	34,36,50
	s=7,m=160	35.1	0.26	4.6	4.6	0.0	0.09	0.07	0.22	0.50	2d6/25 L=70	52,36,50
		70.2	0.26	4.6	4.6	0.0	0.09	0.16	0.23	0.47	2d6/25 L=70	54,35,50
213	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.14	0.38	0.24	2d6/25 L=52	49,36,33
	s=7,m=160	37.1	0.26	4.6	4.6	0.0	0.09	0.15	0.38	0.21	2d6/25 L=52	50,36,33
		74.1	0.26	4.6	4.6	0.0	0.09	0.17	0.39	0.19	2d6/25 L=52	50,36,33
52	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.35	0.41	0.12	2d6/25 L=23	54,35,51
	s=7,m=160	22.8	0.26	4.6	4.6	0.0	0.09	0.41	0.40	0.16	2d6/25 L=23	54,36,50
		45.7	0.26	4.6	4.6	0.0	0.09	0.51	0.42	0.22	2d6/25 L=23	54,36,50
280	ok,NV	0.0	0.26	4.6	4.6	0.0	0.09	0.36	0.31	1.07	2d6/25 L=50	54,36,49
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.16	0.31	1.13	2d6/25 L=50	54,55,49
		49.5	0.26	4.6	4.6	0.0	0.09	0.03	0.32	1.19	2d6/25 L=50	33,55,49
281	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.03	0.18	0.10	2d6/25 L=50	33,35,50
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.03	0.17	0.04	2d6/25 L=50	52,35,51
		49.5	0.26	4.6	4.6	0.0	0.09	0.03	0.18	0.10	2d6/25 L=50	33,35,51
186	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.04	0.15	0.12	2d6/25 L=50	49,35,49
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.02	0.13	0.06	2d6/25 L=50	52,35,49

		49.5	0.26	4.6	4.6	0.0	0.09	0.02	0.14	0.11	2d6/25 L=50	33,35,52
206	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.02	0.12	0.10	2d6/25 L=50	33,35,20
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.01	0.11	0.03	2d6/25 L=50	52,35,49
		49.5	0.26	4.6	4.6	0.0	0.09	0.02	0.12	0.09	2d6/25 L=50	33,35,25
98	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.02	0.10	0.10	2d6/25 L=50	33,35,20
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.01	0.09	0.01	2d6/25 L=50	36,35,55
		49.5	0.26	4.6	4.6	0.0	0.09	0.02	0.10	0.09	2d6/25 L=50	33,35,25
162	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.02	0.08	0.09	2d6/25 L=50	37,39,20
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.01	0.07	0.01	2d6/25 L=50	40,39,36
		49.5	0.26	4.6	4.6	0.0	0.09	0.02	0.08	0.09	2d6/25 L=50	37,39,25
282	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.02	0.08	0.09	2d6/25 L=50	37,35,3
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.02	0.06	0.02	2d6/25 L=50	40,35,33
		49.5	0.26	4.6	4.6	0.0	0.09	0.03	0.07	0.09	2d6/25 L=50	37,35,20
151	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.03	0.08	0.10	2d6/25 L=50	37,43,36
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.03	0.07	0.05	2d6/25 L=50	37,43,33
		49.5	0.26	4.6	4.6	0.0	0.09	0.05	0.07	0.11	2d6/25 L=50	33,42,33
209	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.05	0.09	0.17	2d6/25 L=50	33,43,52
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.07	0.08	0.14	2d6/25 L=50	33,55,49
		49.5	0.26	4.6	4.6	0.0	0.09	0.10	0.09	0.20	2d6/25 L=50	33,55,49
182	ok,ok	0.0	0.26	4.6	4.6	0.0	0.09	0.13	0.22	0.88	2d6/25 L=50	49,49,52
	s=7,m=160	24.8	0.26	4.6	4.6	0.0	0.09	0.39	0.24	0.88	2d6/25 L=50	49,49,49
		49.5	0.26	4.6	4.6	0.0	0.09	0.69	0.25	0.94	2d6/25 L=50	49,49,49
223	NV,ok	0.0	0.26	4.6	4.6	0.0	0.09	1.05	0.26	0.61	2d6/25 L=34	49,33,49
	s=7,m=160	26.8	0.26	4.6	4.6	0.0	0.09	0.70	0.25	0.54	2d6/25 L=34	49,33,49
		53.6	0.26	4.6	4.6	0.0	0.09	0.41	0.23	0.47	2d6/25 L=34	49,33,49
								<b>M T= 1</b>	<b>Z=530.0</b>	<b>P=57</b>	<b>P=72</b>	
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
2	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.59	1.42	8.04	2d6/25 L=258	35,59,35
	s=9,m=163	148.8	0.28	4.6	4.6	0.0	0.09	0.30	1.28	7.50	2d6/25 L=258	34,59,34
		297.5	0.28	4.6	4.6	0.0	0.09	2.80	1.32	9.05	2d6/25 L=258	34,58,34
18	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.39	1.00	2.08	2d6/25 L=608	35,55,5
	s=9,m=163	324.0	0.28	4.6	4.6	0.0	0.09	1.30	0.66	0.78	2d6/25 L=608	6,54,34
		647.9	0.28	4.6	4.6	0.0	0.09	2.91	1.00	2.21	2d6/25 L=608	34,54,6
42	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.88	1.00	2.19	2d6/25 L=580	35,55,35
	s=9,m=163	310.0	0.28	4.6	4.6	0.0	0.09	1.00	0.69	0.90	2d6/25 L=580	6,55,35
		620.0	0.28	4.6	4.6	0.0	0.09	2.84	1.00	2.18	2d6/25 L=580	34,50,34
95	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.99	0.99	2.15	2d6/25 L=592	35,55,5
	s=9,m=163	316.0	0.28	4.6	4.6	0.0	0.09	1.23	0.55	0.83	2d6/25 L=592	6,55,35
		632.0	0.28	4.6	4.6	0.0	0.09	2.34	0.97	2.06	2d6/25 L=592	34,54,34
111	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	3.01	1.91	8.73	2d6/25 L=297	35,55,35
	s=9,m=163	168.7	0.28	4.6	4.6	0.0	0.09	0.41	1.74	6.04	2d6/25 L=297	35,55,43
		337.5	0.28	4.6	4.6	0.0	0.09	2.70	1.63	6.86	2d6/25 L=297	34,54,42
								<b>M T= 2</b>	<b>Z=530.0</b>	<b>P=39</b>	<b>P=54</b>	
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
3	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	1.96	1.30	6.72	2d6/25 L=263	40,64,35
	s=9,m=163	148.8	0.28	4.6	4.6	0.0	0.09	0.13	1.27	5.99	2d6/25 L=263	20,58,34
		297.5	0.28	4.6	4.6	0.0	0.09	2.61	1.45	7.88	2d6/25 L=263	37,58,34
19	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.80	1.00	2.60	2d6/25 L=608	40,63,5
	s=9,m=163	324.0	0.28	4.6	4.6	0.0	0.09	1.63	0.60	0.81	2d6/25 L=608	6,49,38
		647.9	0.28	4.6	4.6	0.0	0.09	3.18	1.00	2.77	2d6/25 L=608	38,52,6
43	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	3.27	1.00	2.98	2d6/25 L=580	40,51,36
	s=9,m=163	310.0	0.28	4.6	4.6	0.0	0.09	1.25	0.60	0.89	2d6/25 L=580	6,36,39
		620.0	0.28	4.6	4.6	0.0	0.09	3.04	1.00	2.90	2d6/25 L=580	38,49,33
96	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	3.25	1.00	2.70	2d6/25 L=592	36,36,6
	s=9,m=163	316.0	0.28	4.6	4.6	0.0	0.09	1.54	0.52	0.84	2d6/25 L=592	6,36,40
		632.0	0.28	4.6	4.6	0.0	0.09	2.62	1.00	2.53	2d6/25 L=592	33,33,5
112	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.71	1.96	7.63	2d6/25 L=302	39,52,36
	s=9,m=163	168.8	0.28	4.6	4.6	0.0	0.09	0.31	1.76	5.47	2d6/25 L=302	20,52,36
		337.5	0.28	4.6	4.6	0.0	0.09	2.15	1.86	6.73	2d6/25 L=302	38,54,33
								<b>M T= 3</b>	<b>Z=530.0</b>	<b>P=6</b>	<b>P=24</b>	
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
130	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.46	1.38	7.26	2d6/25 L=278	58,38,64
	s=9,m=163	159.0	0.28	4.6	4.6	0.0	0.09	1.09	1.23	6.00	2d6/25 L=278	39,38,61
		318.0	0.28	4.6	4.6	0.0	0.09	2.21	1.31	7.60	2d6/25 L=278	57,39,61
4	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	1.71	1.02	4.47	2d6/25 L=255	58,33,38
	s=9,m=163	147.5	0.28	4.6	4.6	0.0	0.09	0.45	1.00	2.59	2d6/25 L=255	43,37,61
		295.0	0.28	4.6	4.6	0.0	0.09	1.85	1.00	4.39	2d6/25 L=255	59,49,61
68	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	1.80	1.19	6.72	2d6/25 L=260	59,39,64
	s=9,m=163	150.0	0.28	4.6	4.6	0.0	0.09	0.42	1.23	6.34	2d6/25 L=260	59,39,64
		300.0	0.28	4.6	4.6	0.0	0.09	2.90	1.27	5.96	2d6/25 L=260	59,39,64
								<b>M T= 11</b>	<b>Z=530.0</b>	<b>P=13</b>	<b>P=17</b>	
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
20	NV,NV	0.0	0.48	10.8	10.8	0.0	0.20	1.67	1.00	5.49	2d6/25 L=154	36,52,60
	s=6,m=163	84.3	0.48	10.8	10.8	0.0	0.20	0.82	1.00	4.44	2d6/25 L=154	33,64,60
		168.6	0.48	10.8	10.8	0.0	0.20	0.67	1.00	3.55	2d6/25 L=154	38,49,60

44	NV,NV	0.0	0.48	10.8	10.8	0.0	0.20	0.80	0.52	2.85	2d6/25 L=283	38,37,35
	s=6,m=163	148.8	0.48	10.8	10.8	0.0	0.20	0.62	0.60	3.13	2d6/25 L=283	36,37,34
		297.5	0.48	10.8	10.8	0.0	0.20	1.72	0.69	3.85	2d6/25 L=283	33,37,34
								<b>M T= 18</b>	<b>Z=530.0</b>	<b>P=19</b>	<b>P=57</b>	
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
58	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	0.47	1.00	1.01	2d6/25 L=280	57,44,40
	s=9,m=163	150.0	0.28	4.6	4.6	0.0	0.09	0.33	1.00	1.02	2d6/25 L=280	64,36,61
		300.0	0.28	4.6	4.6	0.0	0.09	1.52	1.00	1.51	2d6/25 L=280	57,39,37
129	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	1.96	1.00	2.68	2d6/25 L=238	58,58,58
	s=9,m=163	138.9	0.28	4.6	4.6	0.0	0.09	0.57	0.96	2.21	2d6/25 L=238	42,58,58
		277.8	0.28	4.6	4.6	0.0	0.09	1.97	0.96	2.48	2d6/25 L=238	59,59,59
128	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	1.73	0.64	1.46	2d6/25 L=560	58,58,58
	s=9,m=163	297.4	0.28	4.6	4.6	0.0	0.09	0.65	0.44	0.85	2d6/25 L=560	19,59,58
		594.7	0.28	4.6	4.6	0.0	0.09	1.75	0.65	1.37	2d6/25 L=560	59,59,59
								<b>M T= 22</b>	<b>Z=530.0</b>	<b>P=21</b>	<b>P=36</b>	
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
80	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	1.81	0.88	2.27	2d6/25 L=268	35,39,35
	s=9,m=163	148.8	0.28	4.6	4.6	0.0	0.09	0.20	0.97	2.20	2d6/25 L=268	38,37,34
		297.5	0.28	4.6	4.6	0.0	0.09	1.97	1.00	3.08	2d6/25 L=268	34,33,37
154	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	1.92	1.00	1.45	2d6/25 L=613	40,59,36
	s=9,m=163	324.0	0.28	4.6	4.6	0.0	0.09	0.74	0.90	0.69	2d6/25 L=613	6,49,33
		647.9	0.28	4.6	4.6	0.0	0.09	2.05	1.00	1.49	2d6/25 L=613	33,63,33
118	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.64	0.94	1.74	2d6/25 L=580	36,52,36
	s=9,m=163	310.0	0.28	4.6	4.6	0.0	0.09	0.58	0.68	0.97	2d6/25 L=580	6,52,36
		620.0	0.28	4.6	4.6	0.0	0.09	2.24	0.92	1.73	2d6/25 L=580	33,49,33
97	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.53	0.81	1.64	2d6/25 L=592	36,36,36
	s=9,m=163	316.0	0.28	4.6	4.6	0.0	0.09	0.71	0.54	0.85	2d6/25 L=592	5,36,36
		632.0	0.28	4.6	4.6	0.0	0.09	1.90	0.77	1.59	2d6/25 L=592	33,33,33
113	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.88	2.06	8.23	2d6/25 L=297	36,52,36
	s=9,m=163	168.8	0.28	4.6	4.6	0.0	0.09	0.38	1.96	7.18	2d6/25 L=297	36,52,36
		337.5	0.28	4.6	4.6	0.0	0.09	2.89	2.00	7.68	2d6/25 L=297	36,49,33
								<b>M T= 23</b>	<b>Z=530.0</b>	<b>P=36</b>	<b>P=72</b>	
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
89	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	4.02	1.43	13.07	2d6/25 L=243	49,49,49
	s=9,m=163	138.9	0.28	4.6	4.6	0.0	0.09	0.15	1.45	13.25	2d6/25 L=243	3,49,49
		277.8	0.28	4.6	4.6	0.0	0.09	4.34	1.46	13.43	2d6/25 L=243	49,49,49
88	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	3.30	1.00	3.07	2d6/25 L=560	54,54,54
	s=9,m=163	594.7	0.28	4.6	4.6	0.0	0.09	3.68	1.00	2.62	2d6/25 L=560	49,55,55
								<b>M T= 24</b>	<b>Z=530.0</b>	<b>P=2</b>	<b>P=14</b>	
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
114	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	2.08	1.20	5.02	2d6/25 L=278	58,38,38
	s=9,m=163	159.0	0.28	4.6	4.6	0.0	0.09	0.46	1.19	4.11	2d6/25 L=278	59,39,39
		318.0	0.28	4.6	4.6	0.0	0.09	1.58	1.28	5.11	2d6/25 L=278	59,39,39
146	NV,NV	0.0	0.28	4.6	4.6	0.0	0.09	1.50	1.05	5.64	2d6/25 L=255	58,64,64
	s=9,m=163	147.5	0.28	4.6	4.6	0.0	0.09	0.39	1.00	3.61	2d6/25 L=255	58,50,64
		295.0	0.28	4.6	4.6	0.0	0.09	1.87	1.00	3.11	2d6/25 L=255	59,61,61
								<b>M T= 26</b>	<b>Z=530.0</b>	<b>P=1</b>	<b>P=5</b>	
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
283	NV,ok	0.0	0.61	10.0	10.0	0.0	0.12	1.34	0.85	0.17	2d8/3 L=271	36,36,36
	s=9,m=163	143.2	0.61	10.0	10.0	0.0	0.12	0.62	0.77	0.15	2d8/3 L=271	33,36,36
		286.4	0.61	10.0	10.0	0.0	0.12	0.40	0.78	0.15	2d8/3 L=271	36,33,33
284	NV,ok	0.0	0.61	10.0	10.0	0.0	0.12	0.41	0.78	0.15	2d8/3 L=165	36,33,33
	s=9,m=163	89.9	0.61	10.0	10.0	0.0	0.12	0.82	0.83	0.16	2d8/3 L=165	36,33,33
		179.7	0.61	10.0	10.0	0.0	0.12	1.33	0.89	0.17	2d8/3 L=165	33,33,33
								<b>M T= 8</b>	<b>Z=905.0</b>	<b>P=56</b>	<b>P=71</b>	
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
13	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.11	0.98	1.36	2d6/25 L=258	35,59,35
	s=11,m=165	148.8	0.26	4.6	4.6	0.0	0.07	0.22	0.89	1.25	2d6/25 L=258	34,59,34
		297.5	0.26	4.6	4.6	0.0	0.07	1.40	0.97	1.61	2d6/25 L=258	18,58,34
37	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.75	0.57	2.16	2d6/25 L=608	18,55,18
	s=11,m=165	324.0	0.26	4.6	4.6	0.0	0.07	1.41	0.38	0.42	2d6/25 L=608	18,54,34
		647.9	0.26	4.6	4.6	0.0	0.07	2.37	0.61	2.36	2d6/25 L=608	18,20,20
53	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	2.28	0.56	2.18	2d6/25 L=580	18,18,20
	s=11,m=165	310.0	0.26	4.6	4.6	0.0	0.07	0.96	0.30	0.38	2d6/25 L=580	18,55,35
		620.0	0.26	4.6	4.6	0.0	0.07	2.18	0.55	2.14	2d6/25 L=580	18,18,18
63	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	2.26	0.59	2.29	2d6/25 L=592	18,18,20
	s=11,m=165	316.0	0.26	4.6	4.6	0.0	0.07	1.31	0.20	0.42	2d6/25 L=592	18,35,35
		632.0	0.26	4.6	4.6	0.0	0.07	1.72	0.55	2.11	2d6/25 L=592	18,18,18
73	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.44	1.00	2.49	2d6/25 L=297	18,59,55
	s=11,m=165	168.7	0.26	4.6	4.6	0.0	0.07	0.25	1.00	1.18	2d6/25 L=297	35,60,55
		337.5	0.26	4.6	4.6	0.0	0.07	1.08	1.00	1.39	2d6/25 L=297	34,52,54
								<b>M T= 9</b>	<b>Z=905.0</b>	<b>P=19</b>	<b>P=35</b>	
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
124	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	0.77	0.36	1.05	2d6/25 L=268	35,59,39
	s=11,m=165	148.8	0.26	4.6	4.6	0.0	0.07	0.17	0.36	0.97	2d6/25 L=268	37,37,38



		297.5	0.26	4.6	4.6	0.0	0.07	1.30	0.50	1.49	2d6/25 L=268	18,18,18	
140	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.48	0.68	1.72	2d6/25 L=613	18,52,18	
	s=11,m=165	324.0	0.26	4.6	4.6	0.0	0.07	1.07	0.56	0.34	2d6/25 L=613	18,52,37	
		647.9	0.26	4.6	4.6	0.0	0.07	1.83	0.66	1.84	2d6/25 L=613	18,49,20	
156	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.77	0.44	1.71	2d6/25 L=580	18,18,20	
	s=11,m=165	310.0	0.26	4.6	4.6	0.0	0.07	0.76	0.33	0.42	2d6/25 L=580	18,52,36	
		620.0	0.26	4.6	4.6	0.0	0.07	1.72	0.44	1.69	2d6/25 L=580	18,18,18	
14	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.78	0.47	1.81	2d6/25 L=592	18,20,20	
	s=11,m=165	316.0	0.26	4.6	4.6	0.0	0.07	1.03	0.19	0.42	2d6/25 L=592	18,39,36	
		632.0	0.26	4.6	4.6	0.0	0.07	1.34	0.43	1.66	2d6/25 L=592	18,20,18	
38	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.16	1.00	2.26	2d6/25 L=297	36,52,52	
	s=11,m=165	168.8	0.26	4.6	4.6	0.0	0.07	0.24	1.00	1.26	2d6/25 L=297	36,58,52	
		337.5	0.26	4.6	4.6	0.0	0.07	1.22	1.00	1.38	2d6/25 L=297	36,54,49	
								<b>M_T= 10</b>	<b>Z=905.0</b>	<b>P=2</b>	<b>P=14</b>		
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	
15	ok,NV	0.0	0.26	4.6	4.6	0.0	0.07	0.90	0.96	1.13	2d6/25 L=278	58,33,58	
	s=11,m=165	159.0	0.26	4.6	4.6	0.0	0.07	0.32	0.88	0.86	2d6/25 L=278	20,36,59	
		318.0	0.26	4.6	4.6	0.0	0.07	0.73	0.97	1.17	2d6/25 L=278	39,36,59	
55	ok,NV	0.0	0.26	4.6	4.6	0.0	0.07	0.67	0.66	1.16	2d6/25 L=255	60,64,58	
	s=11,m=165	147.5	0.26	4.6	4.6	0.0	0.07	0.47	0.58	0.87	2d6/25 L=255	38,64,58	
		295.0	0.26	4.6	4.6	0.0	0.07	0.81	0.59	1.08	2d6/25 L=255	59,36,59	
								<b>M_T= 14</b>	<b>Z=905.0</b>	<b>P=5</b>	<b>P=23</b>		
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	
39	ok,NV	0.0	0.26	4.6	4.6	0.0	0.07	0.96	0.91	1.17	2d6/25 L=278	57,36,60	
	s=11,m=165	159.0	0.26	4.6	4.6	0.0	0.07	0.34	0.86	0.94	2d6/25 L=278	57,33,57	
		318.0	0.26	4.6	4.6	0.0	0.07	0.80	0.94	1.25	2d6/25 L=278	61,33,57	
65	ok,NV	0.0	0.26	4.6	4.6	0.0	0.07	0.76	0.70	1.19	2d6/25 L=255	58,33,58	
	s=11,m=165	147.5	0.26	4.6	4.6	0.0	0.07	0.15	0.63	0.90	2d6/25 L=255	18,33,58	
		295.0	0.26	4.6	4.6	0.0	0.07	0.93	0.63	1.18	2d6/25 L=255	59,49,59	
108	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	0.57	0.70	1.12	2d6/25 L=260	59,39,58	
	s=11,m=165	150.0	0.26	4.6	4.6	0.0	0.07	0.37	0.72	1.04	2d6/25 L=260	59,39,58	
		300.0	0.26	4.6	4.6	0.0	0.07	1.46	0.74	1.02	2d6/25 L=260	59,39,59	
								<b>M_T= 17</b>	<b>Z=905.0</b>	<b>P=19</b>	<b>P=56</b>		
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	
92	ok,ok	0.0	0.26	4.6	4.6	0.0	0.07	0.23	0.50	0.46	2d6/25 L=280	57,40,61	
	s=11,m=165	150.0	0.26	4.6	4.6	0.0	0.07	0.25	0.48	0.53	2d6/25 L=280	57,40,61	
		300.0	0.26	4.6	4.6	0.0	0.07	0.86	0.46	0.61	2d6/25 L=280	57,40,61	
54	ok,ok	0.0	0.26	4.6	4.6	0.0	0.07	0.78	0.46	0.96	2d6/25 L=238	38,58,58	
	s=11,m=165	138.9	0.26	4.6	4.6	0.0	0.07	0.22	0.44	0.89	2d6/25 L=238	45,58,58	
		277.8	0.26	4.6	4.6	0.0	0.07	0.68	0.42	0.84	2d6/25 L=238	59,58,59	
139	ok,ok	0.0	0.26	4.6	4.6	0.0	0.07	0.68	0.21	0.57	2d6/25 L=560	58,50,58	
	s=11,m=165	297.4	0.26	4.6	4.6	0.0	0.07	0.19	0.20	0.42	2d6/25 L=560	20,59,58	
		594.7	0.26	4.6	4.6	0.0	0.07	0.81	0.24	0.57	2d6/25 L=560	59,59,59	
								<b>M_T= 19</b>	<b>Z=905.0</b>	<b>P=35</b>	<b>P=71</b>		
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	
64	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.85	0.74	2.29	2d6/25 L=243	49,54,52	
	s=11,m=165	138.9	0.26	4.6	4.6	0.0	0.07	0.14	0.73	2.22	2d6/25 L=243	49,54,49	
		277.8	0.26	4.6	4.6	0.0	0.07	1.67	0.71	2.29	2d6/25 L=243	49,54,49	
155	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.45	0.40	1.13	2d6/25 L=560	52,54,52	
	s=11,m=165	297.4	0.26	4.6	4.6	0.0	0.07	0.20	0.36	0.98	2d6/25 L=560	54,54,52	
		594.7	0.26	4.6	4.6	0.0	0.07	1.80	0.35	1.12	2d6/25 L=560	49,55,49	
								<b>M_T= 20</b>	<b>Z=905.0</b>	<b>P=37</b>	<b>P=53</b>		
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	
74	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	0.81	0.96	1.16	2d6/25 L=263	40,60,40	
	s=11,m=165	148.8	0.26	4.6	4.6	0.0	0.07	0.07	0.89	1.00	2d6/25 L=263	38,57,37	
		297.5	0.26	4.6	4.6	0.0	0.07	2.35	1.00	2.48	2d6/25 L=263	18,57,18	
144	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	2.91	0.93	3.65	2d6/25 L=608	18,18,18	
	s=11,m=165	324.0	0.26	4.6	4.6	0.0	0.07	2.38	0.38	0.44	2d6/25 L=608	18,49,38	
		647.9	0.26	4.6	4.6	0.0	0.07	3.97	1.00	4.13	2d6/25 L=608	18,20,20	
91	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	3.83	0.94	3.68	2d6/25 L=580	18,18,18	
	s=11,m=165	310.0	0.26	4.6	4.6	0.0	0.07	1.60	0.29	0.37	2d6/25 L=580	18,52,39	
		620.0	0.26	4.6	4.6	0.0	0.07	3.71	0.93	3.64	2d6/25 L=580	18,18,20	
107	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	3.82	1.00	3.91	2d6/25 L=592	18,20,20	
	s=11,m=165	316.0	0.26	4.6	4.6	0.0	0.07	2.23	0.20	0.44	2d6/25 L=592	18,39,36	
		632.0	0.26	4.6	4.6	0.0	0.07	2.79	0.91	3.55	2d6/25 L=592	18,18,18	
123	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	2.31	1.05	2.60	2d6/25 L=302	18,52,18	
	s=11,m=165	168.8	0.26	4.6	4.6	0.0	0.07	0.33	1.00	0.96	2d6/25 L=302	20,49,35	
		337.5	0.26	4.6	4.6	0.0	0.07	0.92	1.00	1.63	2d6/25 L=302	38,54,54	
								<b>M_T= 21</b>	<b>Z=905.0</b>	<b>P=14</b>	<b>P=18</b>		
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	
75	ok,NV	0.0	0.48	10.8	10.8	0.0	0.18	0.87	0.49	2.10	2d6/25 L=154	36,64,40	
	s=6,m=165	84.3	0.48	10.8	10.8	0.0	0.18	0.43	0.51	1.96	2d6/25 L=154	33,61,40	
		168.6	0.48	10.8	10.8	0.0	0.18	0.34	0.52	1.81	2d6/25 L=154	38,61,40	
106	ok,NV	0.0	0.48	10.8	10.8	0.0	0.18	0.39	0.25	1.76	2d6/25 L=283	38,33,36	
	s=6,m=165	148.8	0.48	10.8	10.8	0.0	0.18	0.35	0.30	1.67	2d6/25 L=283	36,33,33	

		297.5	0.48	10.8	10.8	0.0	0.18	0.89	0.36	2.30	2d6/25 L=283	33,33,33
							<b>M T= 25</b>	<b>Z=905.0</b>	<b>P=2</b>	<b>P=5</b>		
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
157	NV,NV	0.0	0.26	4.6	4.6	0.0	0.07	1.22	0.30	1.07	2d6/25 L=436	36,36,36
	s=11,m=165	233.1	0.26	4.6	4.6	0.0	0.07	0.11	0.29	0.96	2d6/25 L=436	18,33,33
		466.1	0.26	4.6	4.6	0.0	0.07	1.24	0.32	1.08	2d6/25 L=436	33,33,33
Trave			%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc		
			0.61	10.78	10.78	0.0	0.20	9.98	2.06	13.43		

Trave	V. SLV	Nodo	Ver. VC	Direz.	N fr	V fr	M fr	N dutt	LV	mud,pl	V cic	Cmb
					kN	kN	kN m	kN	m		kN	
2	NV	26	8.04	2	-16.48	261.04	388.89	-8.62	1.67	0.0	49.44	35
		23	9.05	2	17.97	293.77	358.21	10.10	1.32	0.0	51.53	34
3	NV	84	6.84	2	9.05	222.24	279.09	5.00	1.46	0.0	49.93	40
		22	8.01	2	-8.69	260.08	338.08	-4.64	1.48	0.0	50.79	37
4	NV	18	6.02	2	-50.56	195.53	256.32	-26.99	1.46	0.0	55.98	58
		37	4.59	2	52.69	189.17	242.54	29.12	1.43	0.0	50.30	59
7	NV	3	1.99	2	43.55	162.09	216.74	19.29	1.76	0.0	62.58	35
		49	1.75	2	-62.72	142.51	158.54	-38.46	1.45	0.0	76.53	34
8	NV	44	1.56	2	237.79	102.02	186.79	129.56	2.63	0.0	31.05	36
		46	1.54	2	-236.40	101.06	181.79	-128.16	2.58	0.0	42.76	33
9	NV	87	1.77	2	-21.66	51.36	67.76	-12.60	1.97	0.0	16.78	58
		12	1.77	2	18.02	51.52	66.65	8.96	1.88	0.0	15.91	59
10	NV	41	1.93	2	58.43	55.94	58.88	32.07	1.29	0.0	15.91	58
		87	2.01	2	-57.06	58.38	65.06	-30.70	1.37	0.0	19.09	59
11	NV	55	2.40	2	62.03	79.79	104.83	33.23	1.69	0.0	29.17	40
		61	1.50	2	62.03	49.73	3.58	33.23	1.69	0.0	29.17	40
13	NV	63	1.36	2	-36.39	120.30	189.20	-20.35	1.86	0.0	56.42	35
		65	1.61	2	33.89	142.51	154.28	17.85	1.17	0.0	60.62	34
14	ok	13	0.86	2	69.07	76.11	158.12	35.01	2.87	0.0	41.01	36
		19	0.82	2	-80.14	72.75	137.99	-46.08	2.60	0.0	49.85	33
15	NV	30	1.13	2	-19.14	100.42	148.49	-11.27	1.80	0.0	55.38	58
		85	1.17	2	15.33	103.76	106.67	7.46	1.18	0.0	60.55	59
18	NV	23	2.04	2	-12.92	165.64	282.72	-7.01	2.43	0.0	40.21	35
		28	2.12	2	12.98	172.42	325.96	7.07	2.76	0.0	35.79	34
19	NV	22	2.36	2	3.86	191.68	314.65	1.83	2.39	0.0	39.71	39
		45	2.47	2	-5.04	200.18	355.84	-3.01	2.61	0.0	37.62	38
20	NV	24	6.03	2	-9.38	136.18	208.44	-5.69	1.69	0.0	27.73	40
		36	4.01	2	-9.38	105.84	7.88	-5.69	1.69	0.0	27.73	40
23	NV	71	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
		101	2.56	2	-26.25	53.30	58.33	-14.81	1.52	0.0	17.27	59
24	NV	61	1.05	2	3.35	34.77	8.08	-0.98	0.60	0.0	65.54	35
		64	2.34	2	-15.59	77.69	93.78	-11.27	1.59	0.0	29.97	34
25	NV	46	1.36	2	360.86	88.82	152.86	194.15	2.75	0.0	31.05	35
		78	1.34	2	-369.53	87.50	125.10	-202.81	2.01	0.0	56.03	34
27	NV	12	2.52	2	73.49	164.85	210.15	42.13	1.53	0.0	41.65	35
		15	2.90	2	-63.88	190.18	229.89	-32.52	1.39	0.0	50.16	34
37	NV	65	1.13	2	-30.56	99.96	167.83	-19.35	2.47	0.0	47.98	35
		66	1.20	2	18.57	105.98	187.33	7.36	2.54	0.0	44.82	34
38	NV	19	3.50	2	49.91	123.84	158.14	26.24	1.38	0.0	58.30	36
		47	2.27	2	-53.78	111.43	195.30	-30.11	1.97	0.0	56.53	33
39	NV	7	1.17	2	-43.34	103.81	163.12	-24.48	1.91	0.0	56.40	60
		88	1.25	2	39.28	111.02	110.80	20.42	1.12	0.0	61.22	57
42	NV	28	2.19	2	-0.06	177.81	338.52	0.06	2.68	0.0	36.55	35
		32	2.18	2	0.49	176.86	334.88	0.36	2.67	0.0	36.67	34
43	NV	45	2.99	2	18.27	200.61	359.66	9.77	2.59	0.0	37.55	39
		91	2.92	2	-18.96	199.59	356.48	-10.46	2.59	0.0	38.89	38
44	NV	36	2.85	2	5.10	94.33	56.03	2.57	0.80	0.0	49.77	35
		37	3.85	2	-5.98	127.38	184.25	-3.45	1.86	0.0	27.54	34
50	NV	5	2.98	2	66.52	37.88	50.77	35.23	1.45	0.0	15.91	58
		71	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
51	NV	15	2.13	2	116.24	139.28	206.86	59.00	2.20	0.0	31.80	35
		20	2.19	2	-134.54	143.59	225.64	-77.30	2.34	0.0	38.87	34
53	NV	66	1.13	2	1.98	99.61	175.84	-1.25	2.57	0.0	44.51	35
		67	1.11	2	-12.18	98.52	172.78	-8.95	2.56	0.0	45.45	34
54	ok	16	0.96	2	-27.79	85.27	117.40	-13.96	1.41	0.0	61.76	58
		50	0.84	2	32.80	74.11	106.07	18.97	1.47	0.0	57.23	59
55	NV	85	1.16	2	-13.32	103.03	78.40	-8.08	0.93	0.0	66.31	58
		38	1.08	2	9.65	95.59	131.07	4.41	1.87	0.0	52.54	59
58	NV	36	1.60	2	-4.96	74.61	45.66	-2.24	0.72	0.0	59.33	64
		59	2.02	2	6.97	107.82	186.94	4.25	2.10	0.0	42.90	61
61	NV	20	2.16	2	224.06	141.32	221.76	117.96	2.33	0.0	31.05	35

Trave	V. SLV	Nodo	Ver. VC	Direz.	N fr	V fr	M fr	N dutt	LV	mud,pl	V cic	Cmb
		34	2.14	2	-240.75	140.04	216.62	-134.65	2.30	0.0	44.39	34
63	NV	67	1.17	2	64.35	103.75	183.01	32.23	2.56	0.0	44.61	35
		70	1.11	2	-76.36	98.49	161.10	-44.24	2.38	0.0	52.71	34
64	NV	47	2.29	2	-44.65	202.69	291.12	-24.48	1.46	0.0	63.10	52
		62	2.29	2	43.73	202.91	258.07	23.56	1.29	0.0	59.23	49
65	NV	88	1.19	2	-74.80	105.61	130.72	-41.51	1.43	0.0	67.54	58
		27	1.18	2	71.03	104.36	128.28	37.74	1.42	0.0	57.78	59
68	NV	37	6.99	2	-91.29	227.03	272.20	-49.33	1.23	0.0	64.98	58
		69	6.70	2	92.53	217.46	372.43	50.57	1.77	0.0	46.53	59
71	NV	34	1.99	2	351.54	130.16	196.79	184.73	2.38	0.0	31.05	35
		35	1.96	2	-379.26	128.37	164.17	-212.45	1.77	0.0	62.94	34
73	NV	70	3.44	2	36.98	135.92	164.40	19.32	1.36	0.0	58.53	35
		98	2.06	2	-40.40	114.85	186.82	-22.74	2.00	0.0	54.92	34
74	NV	50	1.16	2	-5.60	102.65	127.75	-3.40	1.61	0.0	56.31	40
		51	1.49	2	4.03	131.63	154.45	1.83	1.38	0.0	58.22	37
75	NV	38	2.10	2	6.73	68.98	113.24	1.83	1.69	0.0	29.44	40
		90	1.81	2	6.73	59.50	7.16	1.83	1.69	0.0	29.44	40
80	NV	59	2.27	2	25.46	184.23	261.62	13.63	1.61	0.0	48.29	35
		69	3.24	2	-26.35	217.72	267.46	-14.53	1.34	0.0	54.72	34
88	NV	77	3.09	2	-19.01	206.98	468.79	-10.22	2.59	0.0	38.84	52
		60	2.64	2	19.50	198.87	516.56	10.71	3.05	0.0	35.79	49
89	NV	100	13.07	2	19.93	424.51	584.25	10.94	1.37	0.0	50.92	49
		77	13.43	2	19.93	435.97	610.75	10.94	1.40	0.0	50.58	49
91	NV	52	1.39	2	11.77	122.65	196.97	3.89	2.38	0.0	46.66	39
		54	1.38	2	-22.75	121.73	196.82	-14.87	2.43	0.0	47.85	38
92	ok	90	0.46	2	35.07	40.59	31.74	19.20	0.74	0.0	65.70	61
		16	0.61	2	35.07	54.09	110.31	19.20	2.26	0.0	48.01	61
95	NV	32	2.14	2	35.74	173.61	327.06	19.69	2.72	0.0	36.10	35
		31	2.06	2	-34.57	167.36	288.86	-18.52	2.45	0.0	41.53	34
96	NV	91	2.46	2	20.88	199.31	349.16	11.15	2.57	0.0	37.77	40
		75	2.35	2	-21.73	190.49	310.08	-12.00	2.38	0.0	41.48	37
97	NV	79	1.64	2	50.49	132.94	291.80	27.42	2.96	0.0	35.79	36
		92	1.59	2	-50.60	128.97	259.74	-27.53	2.67	0.0	39.91	33
101	NV	87	1.79	2	45.46	146.18	166.21	24.64	1.45	0.0	68.92	36
		96	2.32	2	-45.76	189.75	231.80	-24.94	1.47	0.0	74.09	33
106	NV	90	1.76	2	7.47	57.61	25.44	2.67	0.59	0.0	67.74	36
		27	2.30	2	-13.56	75.48	114.62	-8.76	2.00	0.0	29.99	33
107	NV	54	1.47	2	22.66	130.16	208.39	9.26	2.33	0.0	47.27	36
		56	1.37	2	-36.06	120.90	178.18	-22.66	2.21	0.0	51.80	33
108	NV	27	1.12	2	-189.93	98.88	103.33	-104.51	1.06	0.0	93.73	58
		8	1.02	2	184.27	90.51	173.37	98.86	2.00	0.0	51.07	59
111	NV	31	8.73	2	26.78	283.46	379.57	14.88	1.48	0.0	49.79	35
		60	7.80	2	-25.37	253.13	410.69	-13.47	1.86	0.0	47.94	34
112	NV	75	7.77	2	1.87	252.15	347.84	1.18	1.61	0.0	48.28	39
		77	6.87	2	-1.15	223.20	306.35	-0.46	1.65	0.0	48.00	38
113	NV	92	8.23	2	40.05	267.13	374.31	22.01	1.49	0.0	49.63	36
		100	7.68	2	-39.00	249.23	426.99	-20.95	1.86	0.0	49.23	33
114	NV	82	5.79	2	-7.41	187.93	306.32	-3.79	1.83	0.0	46.59	58
		99	5.87	2	8.47	190.66	220.14	4.84	1.26	0.0	52.17	59
117	NV	96	2.06	2	85.58	168.13	237.84	46.82	2.09	0.0	55.92	39
		68	2.16	2	-84.23	176.33	270.30	-45.47	2.27	0.0	58.57	38
118	NV	74	1.74	2	46.16	141.09	312.64	24.79	2.89	0.0	35.79	36
		79	1.73	2	-47.44	140.59	305.90	-26.07	2.82	0.0	38.70	33
123	NV	56	1.51	2	1.06	133.56	166.76	-0.24	1.52	0.0	56.64	35
		62	3.13	2	-4.63	110.93	143.79	-3.34	1.71	0.0	54.98	34
124	NV	16	1.05	2	30.65	92.98	122.02	15.79	1.63	0.0	55.37	39
		8	1.32	2	-34.43	116.48	128.89	-19.58	1.26	0.0	64.88	38
128	NV	84	1.46	2	-14.31	118.17	225.74	-8.21	2.42	0.0	40.51	58
		26	1.37	2	12.41	111.02	236.74	6.31	2.86	0.0	35.79	59
129	NV	59	2.68	2	-9.81	202.28	276.91	-4.53	1.44	0.0	51.42	58
		84	2.48	2	13.31	200.93	268.53	8.04	1.40	0.0	50.61	59
130	NV	94	7.44	2	-19.90	241.66	369.86	-10.47	1.96	0.0	46.28	58
		18	7.79	2	21.42	252.98	235.97	11.98	1.11	0.0	53.79	59
133	NV	68	2.09	2	168.44	170.97	264.10	90.60	2.30	0.0	51.56	39
		76	2.08	2	-172.60	170.06	260.35	-94.75	2.28	0.0	64.37	38
135	NV	101	2.16	2	-10.43	62.75	65.86	-5.55	1.36	0.0	16.53	58
		55	2.13	2	10.97	61.90	63.88	6.08	1.34	0.0	15.91	59
137	NV	61	1.28	2	70.59	37.22	29.15	39.05	1.07	0.0	19.20	64
		41	1.65	2	-67.61	47.78	54.68	-36.06	1.55	0.0	19.17	61
139	ok	50	0.57	2	-36.23	50.30	112.52	-20.85	2.63	0.0	46.43	58
		63	0.57	2	31.13	50.14	122.66	15.76	2.91	0.0	40.49	59
140	ok	8	0.78	2	78.15	68.82	125.79	39.91	2.49	0.0	45.40	40
		10	0.79	2	-89.38	69.93	147.28	-51.14	3.04	0.0	44.97	37
144	NV	51	1.40	2	-10.69	124.08	190.16	-8.75	2.31	0.0	48.33	39



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

### LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E 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 involuppo 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 <b>ok</b> o <b>NV</b>
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 <b>ok</b> o <b>NV</b>
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 $Ned/(bw f_{yd})$

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 <b>ok</b> o <b>NV</b>
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

## PROGETTAZIONE DELLE FONDAZIONI

Il D.M.17/01/2018 - par: 7.2.5 prevede:

“Sia per CD“A” sia per CD“B” il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall'analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- [...];
- quella trasferita dagli elementi soprastanti nell'ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD“A” e 1,10 in CD“B”;

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

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO\_SAP (per travi e platee) o da PRO\_CAD Plinti (per plinti e pali di fondazione) incrementando la componente sismica delle combinazioni di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.



N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche di pali, plinti, plinti su pali, travi e platee vengono effettuate dal modulo geotecnico incrementando automaticamente la componente sismica delle azioni di un fattore 1.1 in CDB e 1.3 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza nessun incremento.

Scafati, 02/05/2023

Il Capogruppo Mandatario

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