Comune
GENOVA
Provincia
GENOVA

Titolo del progetto

REALIZZAZIONE DEL NUOVO IMPIANTO DI DEPURAZIONE AREA CENTRALE DI GENOVA - D.A.C.

Livello di progettazione	Settore di business	Disciplina
E - ESECUTIVO	I2 - DEPURAZIONE	STR - STRUTTURE

Numero	Titolo	Scala
RT 001 - ALL2	Comparto Trattamento biologico MBR Relazione di calcolo strutturale	-

ID Progetto	Titolo sintetico (nome file di stampa)	Codifica WBS
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1. OGGETTO DELLA RELAZIONE

Il comparto ultrafiltrazione è composto da un fabbricato che contiene le vasche di accumulo permeato e le vasche MBR, il comparto trattamento biologico è composto dalle vasche di nitrificazione e denitrificazione ad esso adiacenti ma strutturalmente indipendenti. Sono pertanto stati realizzati due distinti modelli di calcolo agli elementi finiti, uno per il fabbricato con le vasche contenute ed uno per le vasche adiacenti, di cui si riportano di seguito i dati inseriti, i risultati del calcolo, del progetto e della verifica degli elementi strutturali.

2. FABBRICATO

La struttura portante del fabbricato è composta da 3 file di colonne isostatiche incastrate alla base (sezione 60 cm x 70 cm) e pilastri sulla sommità delle vasche (sezione 50 cm x 50 cm e 60 cm x 70 cm), travi isostatiche semplicemente appoggiate agli estremi su ciascuna campata, ad altezza costante. La copertura è realizzata con tegoli precompressi schematizzati con elementi solaio allo scopo di applicare i carichi alle travi ed inserire un piano rigido (soletta collaborante gettata in opera).

Le colonne sono fissate alla base in bicchieri ricavati da ringrossi nella platea di fondazione.

Nelle due campate longitudinali sono previsti dei carriponte con portata 3000 daN.

Il tamponamento è realizzato con pannelli prefabbricati orizzontali fissati ai pilastri che sono schematizzati elementi pannello al solo scopo di applicare i pesi e le masse in modo il più possibile aderente alla realtà.

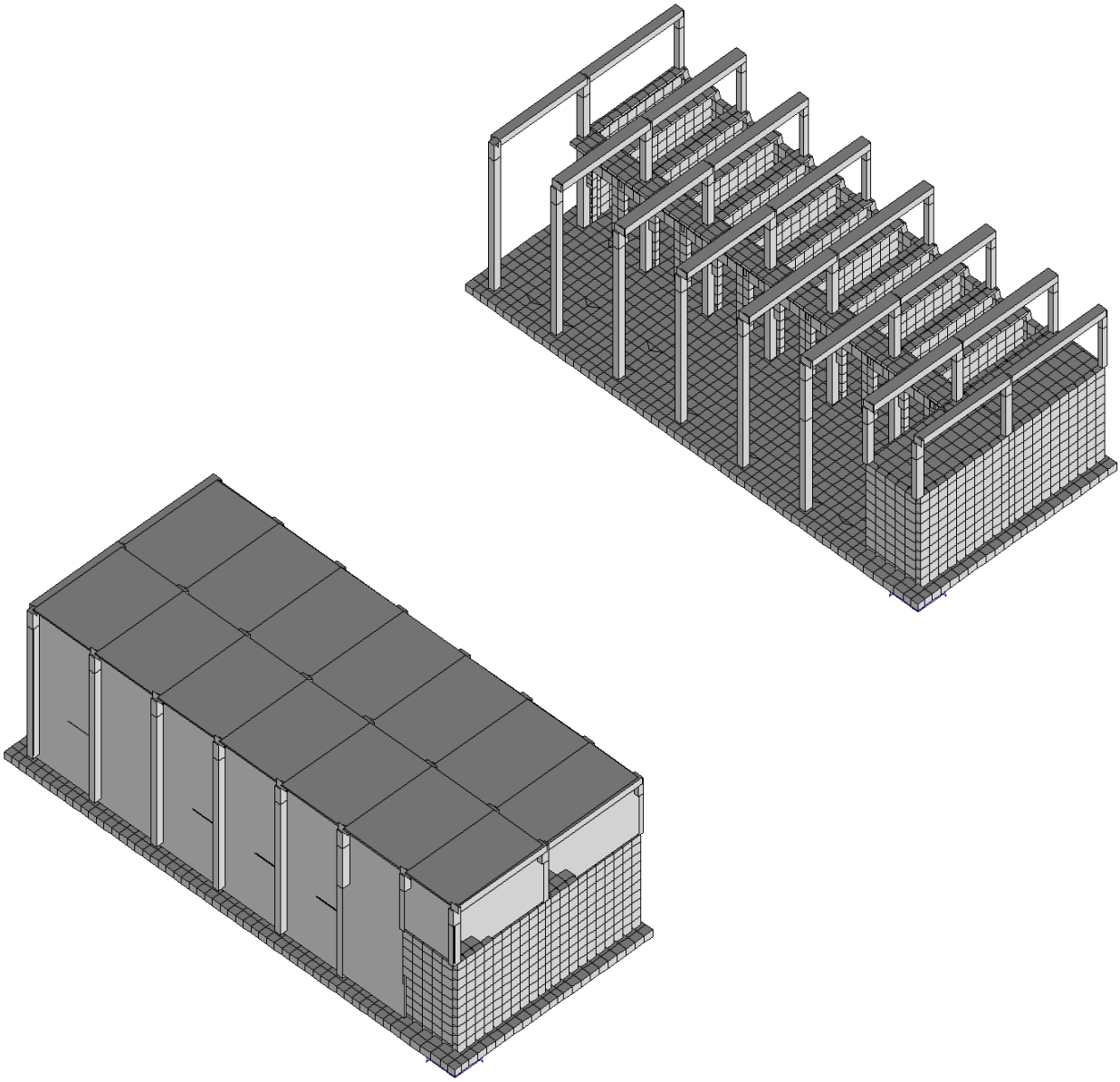
Vi sono due vasche di accumulo con platea di fondo spessa 70 cm, pareti spesse 50 cm e soletta di copertura spessa 25 cm.

Le 12 vasche MBR hanno fondo spesso 30 cm, sostenuto da un muro perimetrale spesso 50 cm e setti al centro del fabbricato di sezione 50 cm x 100 cm che diventano muro di testa delle vasche stesse, pareti laterali spesse 30 cm e passerelle d'ispezione realizzate con solette spesse 25 cm.

Una passerella a mensola, spessa 30 cm e fissata alla sommità della parete interna delle vasche MBR, consente l'accesso alla sommità delle vasche.

Infine c'è un soppalco metallico per i compressori che è composto da telai trasversali realizzati con profilo HEA240, travi longitudinali ed intermedie con profilo HEA340, controvento di piano realizzato con corrente IPE200 e crociere L80x8, controventatura verticale con crociere realizzate con UPN140 e piano di calpestio in grigliato metallico.

Per progettare e verificare l'armatura, sia in condizione statica sia in condizione sismica, con le assunzioni descritte nella relazione generale sulle strutture, è stato realizzato un modello agli elementi finiti, le cui immagini sono di seguito riportate.



Si riportano di seguito i tabulati relativi ai dati inseriti, ai principali risultati ottenuti ed alla progettazione degli elementi portanti.

2.1 DESCRIZIONE DELLA MODELLAZIONE

Tipo di analisi strutturale	
Statica lineare	SI
Statica non lineare	NO
Sismica statica lineare	NO
Sismica dinamica lineare	SI

Modellazione della geometria e proprietà meccaniche:	
nodi	4283
elementi D2 (per aste, travi, pilastri…)	190
elementi D3 (per pareti, platee, gusci…)	4201
elementi solaio	42
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	0.00
Xmax =	2050.00
Ymin =	0.00
Ymax =	4650.00
Zmin =	0.00
Zmax =	1500.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	SI
Pareti	SI
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	SI
Travi	SI
Gusci	SI
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	SI
Solai senza la proprietà piano rigido	SI
Tipo di vincoli:	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI

2.2 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
Poisson	coefficiente di contrazione trasversale
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica

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

1	***cemento armato***		
		Rck	resistenza caratteristica cubica
		Fctm	resistenza media a trazione semplice
2	***acciaio***		
		Ft	tensione di rottura a trazione
		Fy	tensione di snervamento
		Fd	resistenza di calcolo
		Fdt	resistenza di calcolo per spess. t>40 mm
		Sadm	tensione ammissibile
		Sadmt	tensione ammissibile per spess. t>40 mm

TABELLA DATI MATERIALI

Id	Tipo / Note		Young	Poisson	G	Gamma	Alfa
		daN/cm2	daN/cm2		daN/cm2	daN/cm3	
2	Calcestruzzo Classe C20/25		3.020e+05	0.20	1.258e+05	2.50e-03	1.00e-05
	Rck	250.0					
	fctm	22.6					
4	Calcestruzzo Classe C32/40		3.360e+05	0.20	1.400e+05	2.50e-03	1.00e-05
	Rck	400.0					
	fctm	31.0					
7	Calcestruzzo Classe C45/55		3.640e+05	0.20	1.517e+05	2.50e-03	1.00e-05
	Rck	550.0					
	fctm	38.3					
11	acciaio Fe430 - S275		2.100e+06	0.30	8.077e+05	7.80e-03	1.20e-05
	ft	4300.0					
	fy	2750.0					
	fd	2750.0					
	fdt	2500.0					
	sadm	1900.0					
	sadmt	1700.0					
46	c.a. inf. rigido		3.122e+08	0.12	1.394e+08	0.0	1.00e-05
	Rck	300.0					
	fctm	26.1					

Il calcestruzzo C25/30 è stato applicato ai pannelli di parete ma non ha influenza sul calcolo in quanto i pannelli applicano solo i carichi ai pilastri.

Il calcestruzzo C32/40 è per gli elementi strutturali gettati in opera.

Il calcestruzzo C45/55 è per gli elementi strutturali prefabbricati.

Il calcestruzzo infinitamente rigido è stato utilizzato per schematizzare il collegamento fra i pilastri prefabbricati della pilastrata centrale e la struttura gettata in opera delle vasche MBR.

L'acciaio S275 è utilizzato per gli elementi del soppalco compressori.

Di seguito si riportano i dati di progettazione degli elementi in acciaio.

Aste acc.	1/7	2	3/	4	5	6
Generalità						
Beta assegnato	0.80	0.80	0.80	1.00	1.00	0.80
	0.80					
Verifica come controvento	No	No	No	Si	Si	No
	No					
Coefficiente gamma M0	1.05	1.05	1.05	1.05	1.05	1.05
	1.05					
Coefficiente gamma M1	1.05	1.05	1.05	1.05	1.05	1.05
	1.05					
Coefficiente gamma M2	1.25	1.25	1.25	1.25	1.25	1.25
	1.25					

Pilastri acc.	1/7	2	3	4	5	6
Lunghezze libere						
Metodo di calcolo 2-2	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato
	Assegnato					
2-2 Beta assegnato	2.00	2.00	2.00	1.00	1.00	2.00
	2.00					
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					

Pilastri acc.	1/7	2	3	4	5	6
Metodo di calcolo 3-3	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato
	Assegnato					
3-3 Beta assegnato	2.00	2.00	2.00	1.00	1.00	2.00
	2.00					
3-3 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
1-1 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Generalità						
Coefficiente gamma M0	1.05	1.05	1.05	1.05	1.05	1.05
	1.05					
Coefficiente gamma M1	1.05	1.05	1.05	1.05	1.05	1.05
	1.05					
Coefficiente gamma M2	1.25	1.25	1.25	1.25	1.25	1.25
	1.25					
Effetti del 2 ordine	Si	Si	Si	Si	Si	Si
	Si					
Momenti equivalenti	Si	Si	Si	Si	Si	Si
	Si					

Travi acc.	1/7	2	3	4	5	6
Lunghezze libere						
3-3 Beta * L automatico	Si	Si	Si	Si	No	Si
	Si					
3-3 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
3-3 Beta assegnato [cm]	0.0	0.0	0.0	0.0	320.00	0.0
	0.0					
2-2 Beta * L automatico	Si	Si	Si	Si	No	Si
	Si					
2-2 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	320.00	0.0
	0.0					
1-1 Beta * L automatico	Si	Si	Si	Si	Si	Si
	Si					
1-1 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Generalità						
Coefficiente gamma M0	1.05	1.05	1.05	1.05	1.05	1.05
	1.05					
Coefficiente gamma M1	1.05	1.05	1.05	1.05	1.05	1.05
	1.05					
Coefficiente gamma M2	1.25	1.25	1.25	1.25	1.25	1.25
	1.25					
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
Momenti equivalenti	Si	Si	Si	Si	Si	Si
	Si					

Di seguito si riportano i dati di progettazione degli elementi in calcestruzzo armato.

Pareti c.a.	1/7	2	3	4	5	6
Generalità						
Progetto armatura	Composto con parete sismica	Composto con parete sismica	Composto con parete sismica	Composto con parete sismica	Composto con parete sismica	Composto con parete sismica
	Composto con parete sismica					
Armatura						
Inclinazione Av [gradi]	90.00	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
	90.00					
Minima tesa	0.10	0.25	0.10	0.10	0.10	0.10

Pareti c.a.	1/7	2	3	4	5	6
	0.10					
Massima tesa	4.00	4.00	4.00	4.00	4.00	4.00
	4.00					
Maglia unica centrale	No	No	No	No	No	No
	No					
Unico strato verticale	No	No	No	No	No	No
	No					
Unico strato orizzontale	No	No	No	No	No	No
	No					
Copriferro [cm]	4.00	2.00	4.00	4.00	4.00	4.00
	4.00					
Maglia V						
diametro	12	10	16	16	16	12
	12					
passo	20	25	20	20	20	20
	20					
diametro aggiuntivi	12	12	12	12	12	12
	12					
Maglia O						
diametro	10	8	12	12	12	10
	10					
passo	20	25	20	20	20	20
	20					
diametro aggiuntivi	10	8	12	12	12	10
	10					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00					
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C					
Coefficiente gamma s	1.30	1.15	1.30	1.30	1.30	1.30
	1.30					
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
	1.50					
Fattore di confidenza FC	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Verifiche con N costante	Si	Si	Si	Si	Si	Si
	Si					
Parete sismica						
Fattore amplificazione taglio V	1.50	1.50	1.50	1.50	1.50	1.50
	1.50					
Hcrit. par. 7.4.4.5.1 [cm]	0.0	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
	0.0					
Usa diagramma di fig. 7.4.2	Si	No	Si	Si	Si	Si
	Si					
Vincolo lati	nessun lato	nessun lato	nessun lato	nessun lato	nessun lato	nessun lato
	nessun lato					
Verifica come fascia	No	No	No	No	No	No
	No					
Diametro di estremità	0	0	0	0	0	0
	0					
Zona confinata						
Minima tesa	1.00	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
	4.00					
Distanza barre [cm]	2.00	2.00	2.00	2.00	2.00	2.00
	2.00					
Interferro	2	2	2	2	2	2
	2					
Armatura inclinata						
Area barre [cm2]	0.0	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
	0.0					
Distanza di base [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					

Gusci c.a.	1/7	2	3	4	5	6
Armatura						
Inclinazione Ax [gradi]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Angolo Ax-Ay [gradi]	90.00	90.00	90.00	90.00	90.00	90.00
	90.00					
Minima tesa	0.20	0.20	0.20	0.20	0.20	0.20
	0.20					
Massima tesa	0.78	0.78	0.78	0.78	0.78	0.78
	0.78					
Maglia unica centrale	No	No	No	No	No	No
	No					
Copriferro [cm]	4.00	4.00	4.00	4.00	4.00	4.00
	4.00					
Maglia x						
diametro	14	20	14	14	14	14
	14					
passo	20	20	20	20	20	20
	20					
diametro aggiuntivi	12	20	12	12	12	12
	12					
Maglia y						
diametro	14	20	14	14	14	14
	14					
passo	20	20	20	20	20	20
	20					
diametro aggiuntivi	12	20	12	12	12	12
	12					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00					
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C					
Coefficiente gamma s	1.30	1.30	1.30	1.30	1.30	1.30
	1.30					
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
	1.50					
Fattore di confidenza FC	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Verifiche con N costante	Si	Si	Si	Si	Si	Si
	Si					
Applica SLU da DIN	No	No	No	No	No	No
	No					

Travi c.a.	1/7	2	3	4	5	6
Generalità						
Progetta a filo	No	No	No	No	No	No
	No					
Af inf: da q*L*L /	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Armatura						
Minima tesa	0.31	0.31	0.31	0.31	0.31	0.31
	0.31					
Minima compressa	0.31	0.31	0.31	0.31	0.31	0.31
	0.31					
Massima tesa	0.78	0.78	0.78	0.78	0.78	0.78
	0.78					
Da sezione	Si	Si	Si	Si	Si	Si
	Si					
Usa armatura teorica	No	No	No	No	No	No
	No					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00					
Tensione fy staffe [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00					
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C					
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
	1.15					

Travi c.a.	**1/7**	**2**	**3**	**4**	**5**	**6**
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
	1.50					
Fattore di confidenza FC	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Verifiche con N costante	Si	Si	Si	Si	Si	Si
	Si					
Fattore di ridistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Modello per il confinamento						
Relazione tensio-deformativa	Mander	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
	5.000e-03					
Fattore lambda	1.00	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
	4.000e-02					
epsilon cu2	4.500e-03	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
	0.0					
epsilon cy	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Staffe						
Diametro staffe	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Passo minimo [cm]	4.00	5.00	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
	30.00					
Passo raffittito [cm]	15.00	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
	50.00					
Ctg(Teta) Max	2.50	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
	0.0					
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
Adotta scorrimento medio	No	No	No	No	No	No
	No					
Torsione non essenziale inclusa	No	Si	Si	Si	Si	No
	No					

Pilastri c.a.	**1/7**	**2**	**3**	**4**	**5**	**6**
Generalità						
Progetto armatura	Privilegia lati	Privilegia lati	Privilegia lati	Privilegia lati	Privilegia lati	Privilegia lati
	Privilegia lati					
Progetta a filo	No	No	No	No	No	No
	No					
Effetti del 2 ordine	Si	Si	Si	Si	Si	Si
	Si					
Beta per 2-2	1.00	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
	1.00					
Armatura						
Massima tesa	4.00	4.00	4.00	4.00	4.00	4.00
	4.00					
Minima tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00					
Tensione fy staffe [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00					
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C					
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
	1.15					

Pilastri c.a.	**1/7**	**2**	**3**	**4**	**5**	**6**
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
	1.50					
Fattore di confidenza FC	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Verifiche con N costante	Si	Si	Si	Si	Si	Si
	Si					
Modello per il confinamento						
Relazione tensio-deformativa	Mander	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
	5.000e-03					
Fattore lambda	1.00	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
	4.000e-02					
epsilon cu2	4.500e-03	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
	0.0					
epsilon cy	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Staffe						
Diametro staffe	0.0	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
	5.00					
Passo massimo [cm]	25.00	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
	15.00					
Lunghezza zona raffittita [cm]	45.00	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
	2.50					
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
Massimizza gerarchia	Si	Si	Si	Si	Si	Si
	Si					

2.3 MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

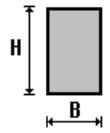
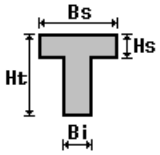
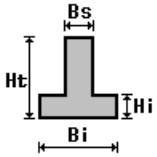
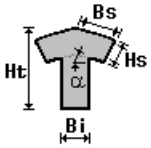
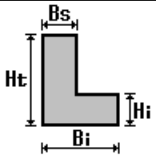
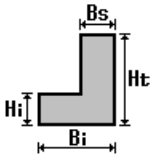
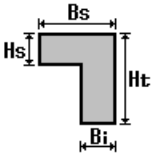
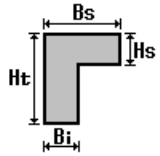
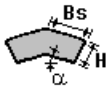
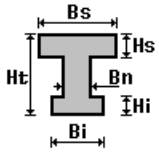
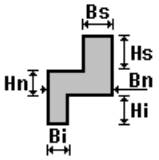
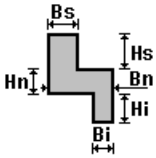
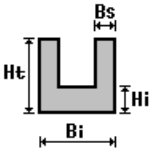
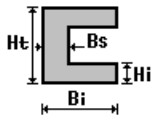
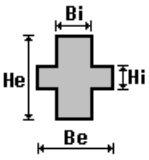
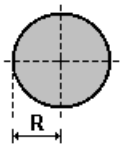
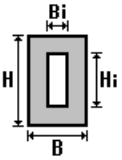
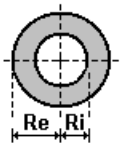
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

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

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

I dati soprariportati 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 profilari.

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

TABELLA DATI SEZIONI

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	Pilastri 60x70	4200.00	3500.00	3500.00	2.448e+06	1.260e+06	1.715e+06	4.200e+04	4.900e+04	6.300e+04	7.350e+04
2	Pilastri 50x50	2500.00	2083.33	2083.33	8.785e+05	5.208e+05	5.208e+05	2.083e+04	2.083e+04	3.125e+04	3.125e+04
3	Pilastri 50x70	3500.00	2916.67	2916.67	1.636e+06	7.292e+05	1.429e+06	2.917e+04	4.083e+04	4.375e+04	6.125e+04
4	Trave 100x70	7000.00	5833.33	5833.33	6.494e+06	5.833e+06	2.858e+06	1.167e+05	8.167e+04	1.750e+05	1.225e+05
5	Trave 80x70	5600.00	4666.67	4666.67	4.363e+06	2.987e+06	2.287e+06	7.467e+04	6.533e+04	1.120e+05	9.800e+04
6	HEA 240 telai	76.80	0.0	0.0	41.60	2769.00	7763.00	230.70	675.10	351.70	744.60
7	HEA 340 travi	133.50	0.0	0.0	127.20	7436.00	2.769e+04	495.70	1678.40	755.90	1850.50
8	UPN 140 controvento	20.40	0.0	0.0	5.68	62.50	605.00	14.70	86.40	28.30	103.00
9	IPE 200 puntone	28.50	0.0	0.0	7.00	142.00	1943.00	28.50	194.30	44.60	220.60
10	LU 80x8 croci	12.30	0.0	0.0	2.59	72.20	72.20	12.60	12.60	12.60	12.60

2.4 MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO

LEGENDA TABELLA DATI SOLAI

Il programma utilizza per la modellazione di elementi a tre o più nodi denominati in generale solaio.
Ogni elemento solaio 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, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori).

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

La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

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

Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: ***per valore frequente***
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: ***per valore quasi permanente***
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: ***per la definizione delle masse sismiche***
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

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

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

TABELLA DATI SOLAI

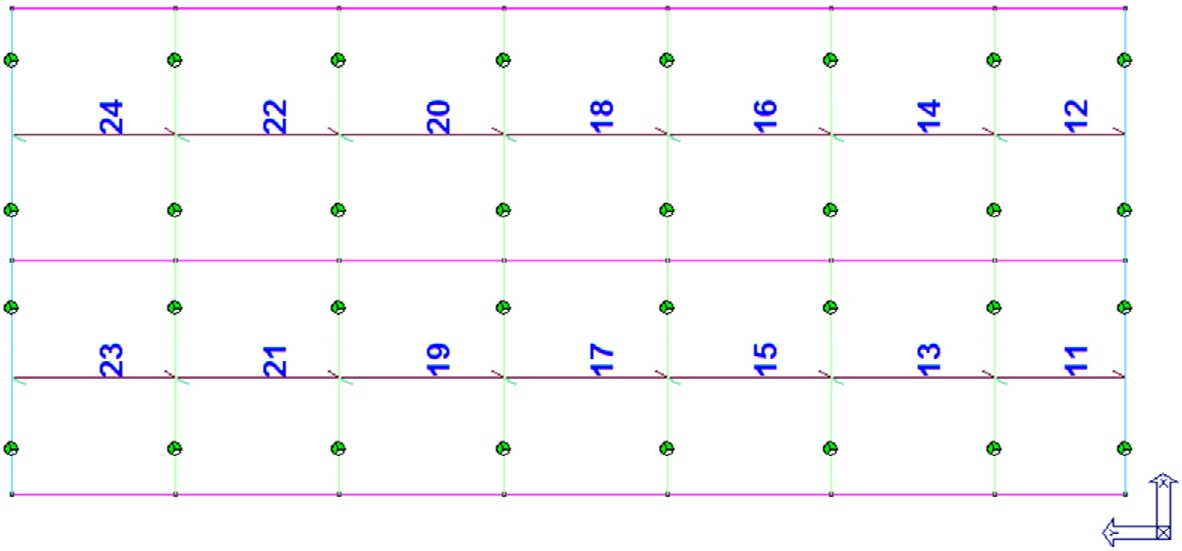
ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/cm2	daN/cm2	daN/cm2							
1	Variab.	5.40e-02	2.00e-02	2.00e-02		1.00	1.00	0.90	0.80	0.80	1.00
2	Variab.	2.50e-02		5.00e-02		1.00	1.00	0.90	0.80	0.80	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2148	2145	2147	2150	
2	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2151	2148	2150	2153	
3	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2154	2151	2153	2156	
4	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2157	2154	2156	2159	
5	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2160	2157	2159	2162	
6	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2163	2160	2162	2165	
7	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2166	2163	2165	2169	
8	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2170	2167	2169	2172	
9	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2174	2170	2172	2176	
10	CM	2	m=4	5.0	90.0	2.50e-02		5.00e-02	2177	2173	2176	2179	
11	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4263	4260	4261	4264	
12	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4264	4261	4262	4265	
13	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4266	4263	4264	4267	
14	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4267	4264	4265	4268	
15	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4269	4266	4267	4270	
16	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4270	4267	4268	4271	
17	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4272	4269	4270	4273	
18	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4273	4270	4271	4274	
19	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4275	4272	4273	4276	
20	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4276	4273	4274	4277	
21	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4278	4275	4276	4279	
22	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4279	4276	4277	4280	
23	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4281	4278	4279	4282	
24	CM	1	m=4	5.0	90.0	5.40e-02	2.00e-02	2.00e-02	4282	4279	4280	4283	

I carichi applicati alla copertura sono:

- Peso proprio: 540 daN/m^2
- Permanente: 200 daN/m^2
- Variabile (comprensivo di neve): 200 daN/m^2

Numerazione elementi solaio



I carichi applicati al soppalco compressori sono:

- Peso proprio + perm. soppalco: 250 daN/m^2
- Variabile: 500 daN/m^2

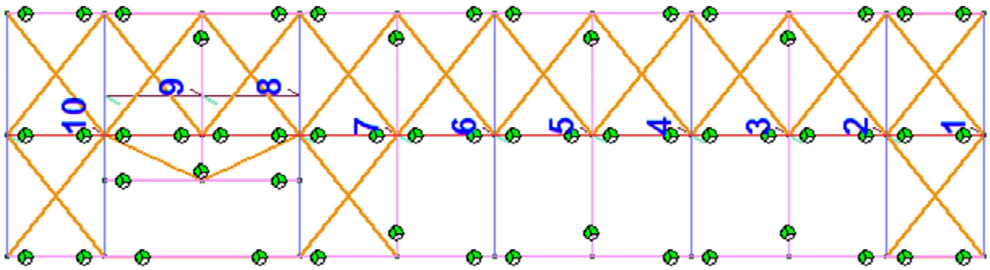
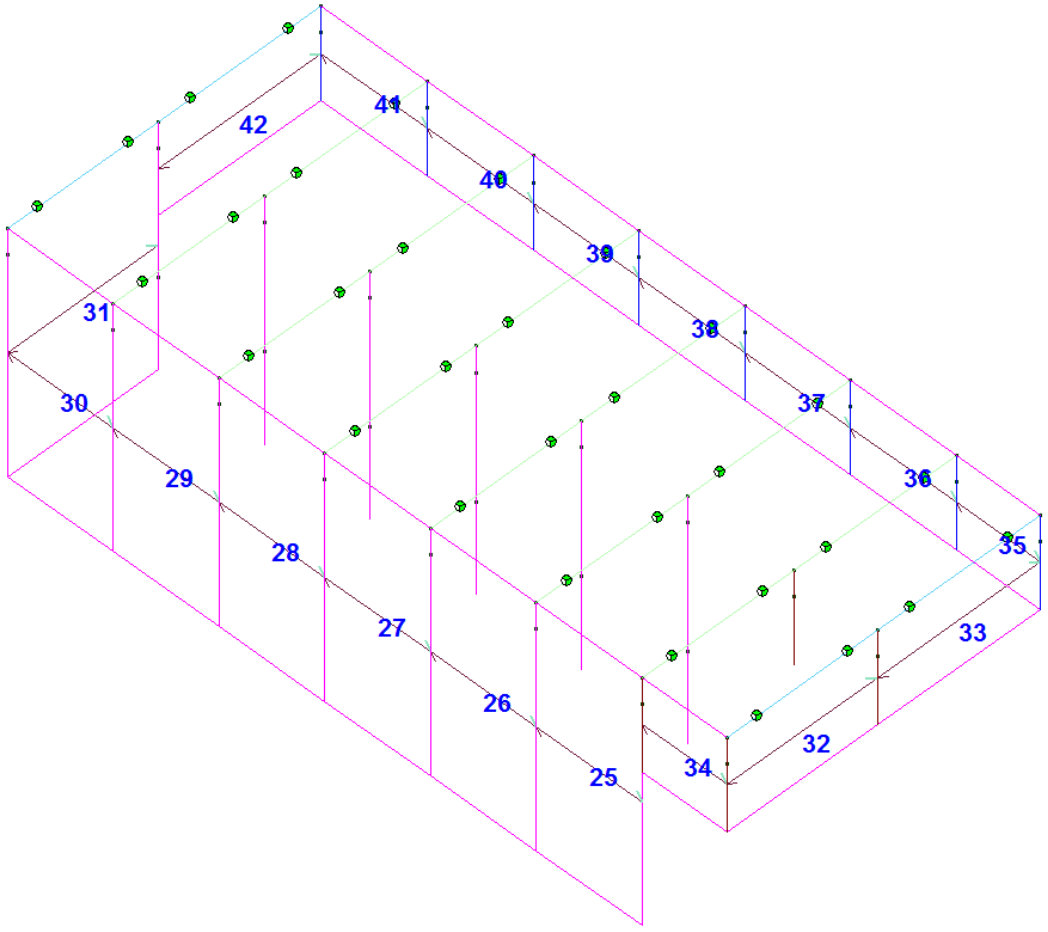


TABELLA DATI PANNELLI

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1	Nodo 2	Nodo 3	Nodo 4
						daN/cm2	daN/cm2	daN/cm2				
25	PM		m=2	12.0	0.0				4263	171	365	4266
26	PM		m=2	12.0	0.0				4266	365	559	4269
27	PM		m=2	12.0	0.0				4269	559	753	4272
28	PM		m=2	12.0	0.0				4272	753	947	4275
29	PM		m=2	12.0	0.0				4275	947	1142	4278
30	PM		m=2	12.0	0.0				4278	1142	1339	4281
31	PM		m=2	12.0	0.0				4282	1349	1339	4281
32	PM		m=2	12.0	0.0				4261	3560	3550	4260
33	PM		m=2	12.0	0.0				4262	3571	3560	4261
34	PM		m=2	12.0	0.0				4260	3550	3660	4263
35	PM		m=2	12.0	0.0				4262	3571	3682	4265
36	PM		m=2	12.0	0.0				4265	3682	3775	4268
37	PM		m=2	12.0	0.0				4268	3775	3867	4271
38	PM		m=2	12.0	0.0				4271	3867	3959	4274
39	PM		m=2	12.0	0.0				4274	3959	4051	4277
40	PM		m=2	12.0	0.0				4277	4051	4143	4280
41	PM		m=2	12.0	0.0				4280	4143	4235	4283
42	PM		m=2	12.0	0.0				4283	4235	4224	4282

Numerazione elementi pannello

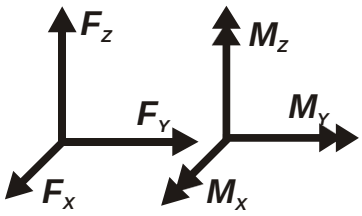


2.5 MODELLAZIONE DELLE AZIONI

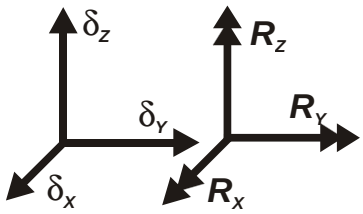
LEGENDA TABELLA DATI AZIONI

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

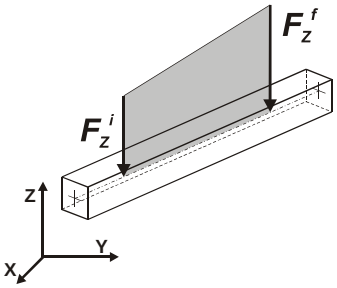
1	**carico concentrato nodale** 6 dati (forza Fx, Fy, Fz, momento Mx, My, Mz)
2	**spostamento nodale impresso** 6 dati (spostamento Tx,Ty,Tz, rotazione Rx,Ry,Rz)
3	**carico distribuito globale su elemento tipo trave** 7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico) 7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	**carico distribuito locale su elemento tipo trave** 7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico) 7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	**carico concentrato globale su elemento tipo trave** 7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	**carico concentrato locale su elemento tipo trave** 7 dati (F1, F2, F3, M1, M2, M3, ascissa di carico)
7	**variazione termica applicata ad elemento tipo trave** 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	**carico di pressione uniforme su elemento tipo piastra** 1 dato (pressione)
9	**carico di pressione variabile su elemento tipo piastra** 4 dati (pressione, quota, pressione, quota)
10	**variazione termica applicata ad elemento tipo piastra** 2 dati (variazioni termiche: media e differenza nello spessore)
11	**carico variabile generale su elementi tipo trave e piastra** 1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	**gruppo di carichi con impronta su piastra** 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell' impronta, interasse tra i carichi



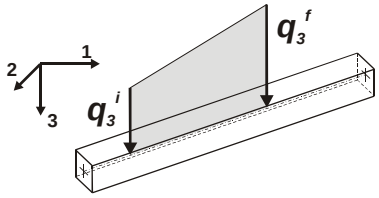
Carico concentrato nodale



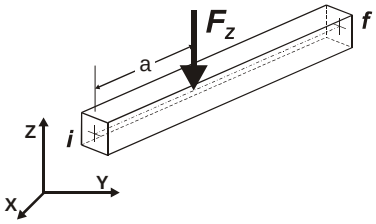
Spostamento impresso



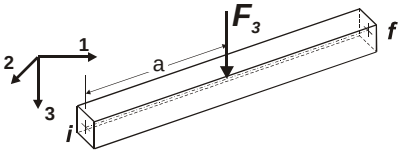
Carico distribuito globale



Carico distribuito locale



Carico concentrato globale



Carico concentrato locale

TABELLA DATI AZIONI

Tipo	carico concentrato nodale

Id	Tipo	Fx	Fy	Fz	Mx	My	Mz
		daN	daN	daN	daN cm	daN cm	daN cm
1	Carroponte max M+	0.0	420.00	-4200.00	0.0	2.310e+05	0.0
2	Carroponte max M-	0.0	420.00	-4200.00	0.0	-2.310e+05	0.0
3	Carroponte min M+	0.0	80.00	-800.00	0.0	4.500e+04	0.0
4	Carroponte min M-	0.0	80.00	-800.00	0.0	-4.500e+04	0.0

Tipo	carico variabile generale

Id	Tipo	ascissa	valore	ascissa	valore
		cm	daN/cm2	cm	daN/cm2
5	Fondo vasca accumulo				
	X - X Qz Pres. L2=0.0	0.0	-0.87	2200.00	-0.87
6	Pareti accumulo +x				
	Z - Z Qx Pres. L2=0.0	0.0	0.87	830.00	0.0
7	Pareti accumulo -x				
	Z - Z Qx Pres. L2=0.0	0.0	-0.87	830.00	0.0
8	Pareti accumulo +y				
	Z - Z Qy Pres. L2=0.0	0.0	0.87	830.00	0.0
9	Pareti accumulo -y				
	Z - Z Qy Pres. L2=0.0	0.0	-0.87	830.00	0.0
10	Sisma pareti accumulo +x				
	Z - Z Qx Pres. L2=0.0	0.0	0.49	830.00	0.09
11	Sisma pareti accumulo -x				
	Z - Z Qx Pres. L2=0.0	0.0	-0.49	830.00	-0.09
12	Sisma pareti accumulo +y				
	Z - Z Qy Pres. L2=0.0	0.0	0.49	830.00	0.09
13	Sisma pareti accumulo -y				
	Z - Z Qy Pres. L2=0.0	0.0	-0.49	830.00	-0.09
14	Fondo vasca MBR				

Id	Tipo	ascissa	valore	ascissa	valore
	X - X Qz Pres. L2=0.0	0.0	-0.34	2200.00	-0.34
15	Pareti MBR +x				
	Z - Z Qx Pres. L2=0.0	570.00	0.34	880.00	0.0
16	Pareti MBR -x				
	Z - Z Qx Pres. L2=0.0	570.00	-0.34	880.00	0.0
17	Pareti MBR +y				
	Z - Z Qy Pres. L2=0.0	570.00	0.34	880.00	0.0
18	Pareti MBR -y				
	Z - Z Qy Pres. L2=0.0	570.00	-0.34	880.00	0.0
19	Sisma pareti MBR +x				
	Z - Z Qx Pres. L2=0.0	570.00	0.18	880.00	0.03
20	Sisma pareti MBR -x				
	Z - Z Qx Pres. L2=0.0	570.00	-0.18	880.00	-0.03
21	Sisma pareti MBR +y				
	Z - Z Qy Pres. L2=0.0	570.00	0.18	880.00	0.03
22	Sisma pareti MBR -y				
	Z - Z Qy Pres. L2=0.0	570.00	-0.18	880.00	-0.03
23	Variabile platea 1000 daN/m²				
	X - X Qz Pres. L2=0.0	0.0	-0.10	2200.00	-0.10
24	Variabile solette 300 daN/m²				
	X - X Qz Pres. L2=0.0	0.0	-0.03	2200.00	-0.03

I carichi applicati sono descritti nella relazione generale sulle strutture.

2.6 SCHEMATIZZAZIONE DEI CASI DI CARICO

LEGENDA TABELLA CASI DI CARICO

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

Sono previsti i seguenti 11 tipi di casi di carico:

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

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

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

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

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

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

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

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

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

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

TABELLA CASI DI CARICO

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 1)	
6	Qsk	CDC=Qsk (variabile solai 2)	
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)
			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 1)
			partecipazione:1.00 per 6 CDC=Qsk (variabile solai 2)
8	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
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 (variabile carriponte)	Nodo: 4236 Azione : Carroponte max M+
			Nodo: 4236 Azione : Carroponte min M-
			Nodo: 4237 Azione : Carroponte min M-
			Nodo: 4238 Azione : Carroponte max M-
			Nodo: 4239 Azione : Carroponte min M+
			Nodo: 4240 Azione : Carroponte max M+
			Nodo: 4240 Azione : Carroponte max M-
			Nodo: 4241 Azione : Carroponte min M-
			Nodo: 4242 Azione : Carroponte max M+
			Nodo: 4243 Azione : Carroponte min M-
			Nodo: 4244 Azione : Carroponte max M-
			Nodo: 4245 Azione : Carroponte min M+
			Nodo: 4246 Azione : Carroponte max M+
			Nodo: 4246 Azione : Carroponte max M-
			Nodo: 4247 Azione : Carroponte min M-
			Nodo: 4248 Azione : Carroponte max M+
			Nodo: 4248 Azione : Carroponte min M-
			Nodo: 4249 Azione : Carroponte min M-
			Nodo: 4250 Azione : Carroponte max M-
			Nodo: 4251 Azione : Carroponte min M+
			Nodo: 4252 Azione : Carroponte max M+
			Nodo: 4252 Azione : Carroponte max M-
			Nodo: 4253 Azione : Carroponte min M-
			Nodo: 4254 Azione : Carroponte max M+
			Nodo: 4254 Azione : Carroponte min M-
			Nodo: 4255 Azione : Carroponte min M-
			Nodo: 4256 Azione : Carroponte max M-
			Nodo: 4257 Azione : Carroponte min M+
			Nodo: 4258 Azione : Carroponte max M+
			Nodo: 4258 Azione : Carroponte max M-
			Nodo: 4259 Azione : Carroponte min M-
16	Gk	CDC=G1k (permanente vasca 1)	D3 :da 49 a 59 Azione : Fondo vasca accumulo
			D3 :da 72 a 82 Azione : Fondo vasca accumulo
			D3 :da 95 a 105 Azione : Fondo vasca accumulo
			D3 :da 118 a 128 Azione : Fondo vasca accumulo
			D3 :da 141 a 151 Azione : Fondo vasca accumulo
			D3 :da 1344 a 1354 Azione : Pareti accumulo -y
			D3 : 1365 Azione : Pareti accumulo -x
			D3 : 1366 Azione : Pareti accumulo +x
			D3 : 1368 Azione : Pareti accumulo -x
			D3 : 1369 Azione : Pareti accumulo +x
			D3 : 1371 Azione : Pareti accumulo -x
			D3 : 1372 Azione : Pareti accumulo +x
			D3 : 1374 Azione : Pareti accumulo -x
			D3 : 1375 Azione : Pareti accumulo +x
			D3 : 1377 Azione : Pareti accumulo -x
			D3 : 1378 Azione : Pareti accumulo +x
			D3 :da 1380 a 1390 Azione : Pareti accumulo +y
			D3 :da 1479 a 1489 Azione : Pareti accumulo -y
			D3 : 1500 Azione : Pareti accumulo -x
			D3 : 1501 Azione : Pareti accumulo +x

CDC	Tipo	Sigla Id	Note
			D3 : 1503 Azione : Pareti accumulo -x
			…
			D3 :da 3710 a 3711 Azione : Pareti accumulo +y
17	Gk	CDC=G1k (permanente vasca 2)	D3 :da 60 a 69 Azione : Fondo vasca accumulo
			D3 :da 83 a 92 Azione : Fondo vasca accumulo
			D3 :da 106 a 115 Azione : Fondo vasca accumulo
			D3 :da 129 a 138 Azione : Fondo vasca accumulo
			D3 :da 152 a 161 Azione : Fondo vasca accumulo
			D3 :da 1355 a 1364 Azione : Pareti accumulo -y
			D3 : 1366 Azione : Pareti accumulo -x
			D3 : 1367 Azione : Pareti accumulo +x
			D3 : 1369 Azione : Pareti accumulo -x
			D3 : 1370 Azione : Pareti accumulo +x
			D3 : 1372 Azione : Pareti accumulo -x
			D3 : 1373 Azione : Pareti accumulo +x
			D3 : 1375 Azione : Pareti accumulo -x
			D3 : 1376 Azione : Pareti accumulo +x
			D3 : 1378 Azione : Pareti accumulo -x
			D3 : 1379 Azione : Pareti accumulo +x
			D3 :da 1391 a 1400 Azione : Pareti accumulo +y
			D3 :da 1490 a 1499 Azione : Pareti accumulo -y
			D3 : 1501 Azione : Pareti accumulo -x
			D3 : 1502 Azione : Pareti accumulo +x
			D3 : 1504 Azione : Pareti accumulo -x
			D3 : 1505 Azione : Pareti accumulo +x
			D3 : 1507 Azione : Pareti accumulo -x
			D3 : 1508 Azione : Pareti accumulo +x
			D3 : 1510 Azione : Pareti accumulo -x
			D3 : 1511 Azione : Pareti accumulo +x
			D3 : 1513 Azione : Pareti accumulo -x
			D3 : 1514 Azione : Pareti accumulo +x
			…
			D3 :da 3700 a 3709 Azione : Pareti MBR +y
18	Etk	CDC=Etk (inc. sp. liquido) SLV dir + alfa=0.0	D3 : 1366 Azione : Sisma pareti accumulo +x
			D3 : 1367 Azione : Sisma pareti accumulo +x
			D3 : 1369 Azione : Sisma pareti accumulo +x
			D3 : 1370 Azione : Sisma pareti accumulo +x
			D3 : 1372 Azione : Sisma pareti accumulo +x
			D3 : 1373 Azione : Sisma pareti accumulo +x
			D3 : 1375 Azione : Sisma pareti accumulo +x
			D3 : 1376 Azione : Sisma pareti accumulo +x
			D3 : 1378 Azione : Sisma pareti accumulo +x
			D3 : 1379 Azione : Sisma pareti accumulo +x
			D3 : 1501 Azione : Sisma pareti accumulo +x
			D3 : 1502 Azione : Sisma pareti accumulo +x
			D3 : 1504 Azione : Sisma pareti accumulo +x
			D3 : 1505 Azione : Sisma pareti accumulo +x
			D3 : 1507 Azione : Sisma pareti accumulo +x
			D3 : 1508 Azione : Sisma pareti accumulo +x
			D3 : 1510 Azione : Sisma pareti accumulo +x
			D3 : 1511 Azione : Sisma pareti accumulo +x
			D3 : 1513 Azione : Sisma pareti accumulo +x
			D3 : 1514 Azione : Sisma pareti accumulo +x
			D3 : 1636 Azione : Sisma pareti accumulo +x
			D3 : 1637 Azione : Sisma pareti accumulo +x
			D3 : 1639 Azione : Sisma pareti accumulo +x
			D3 : 1640 Azione : Sisma pareti accumulo +x
			D3 : 1642 Azione : Sisma pareti accumulo +x
			D3 : 1643 Azione : Sisma pareti accumulo +x
			D3 : 1645 Azione : Sisma pareti accumulo +x
			D3 : 1646 Azione : Sisma pareti accumulo +x
			D3 : 1648 Azione : Sisma pareti accumulo +x
			D3 : 1649 Azione : Sisma pareti accumulo +x
			D3 : 1771 Azione : Sisma pareti accumulo +x
			D3 : 1772 Azione : Sisma pareti accumulo +x
			D3 : 1774 Azione : Sisma pareti accumulo +x
			D3 : 1775 Azione : Sisma pareti accumulo +x
			D3 : 1777 Azione : Sisma pareti accumulo +x
			D3 : 1778 Azione : Sisma pareti accumulo +x
			D3 : 1780 Azione : Sisma pareti accumulo +x
			D3 : 1781 Azione : Sisma pareti accumulo +x
			…
			D3 : 3497 Azione : Sisma pareti accumulo +x

CDC	Tipo	Sigla Id	Note
19	Etk	CDC=Etk (inc. sp. liquido) SLV dir - alfa=0.0	D3 : 1365 Azione : Sisma pareti accumulo -x
			D3 : 1366 Azione : Sisma pareti accumulo -x
			D3 : 1368 Azione : Sisma pareti accumulo -x
			D3 : 1369 Azione : Sisma pareti accumulo -x
			D3 : 1371 Azione : Sisma pareti accumulo -x
			D3 : 1372 Azione : Sisma pareti accumulo -x
			D3 : 1374 Azione : Sisma pareti accumulo -x
			D3 : 1375 Azione : Sisma pareti accumulo -x
			D3 : 1377 Azione : Sisma pareti accumulo -x
			D3 : 1378 Azione : Sisma pareti accumulo -x
			D3 : 1500 Azione : Sisma pareti accumulo -x
			D3 : 1501 Azione : Sisma pareti accumulo -x
			D3 : 1503 Azione : Sisma pareti accumulo -x
			D3 : 1504 Azione : Sisma pareti accumulo -x
			D3 : 1506 Azione : Sisma pareti accumulo -x
			D3 : 1507 Azione : Sisma pareti accumulo -x
			D3 : 1509 Azione : Sisma pareti accumulo -x
			D3 : 1510 Azione : Sisma pareti accumulo -x
			D3 : 1512 Azione : Sisma pareti accumulo -x
			D3 : 1513 Azione : Sisma pareti accumulo -x
			D3 : 1635 Azione : Sisma pareti accumulo -x
			D3 : 1636 Azione : Sisma pareti accumulo -x
			D3 : 1638 Azione : Sisma pareti accumulo -x
			D3 : 1639 Azione : Sisma pareti accumulo -x
			D3 : 1641 Azione : Sisma pareti accumulo -x
			D3 : 1642 Azione : Sisma pareti accumulo -x
			…
			D3 : 3699 Azione : Sisma pareti MBR -x
20	Etk	CDC=Etk (inc. sp. liquido) SLV dir + alfa=90.00	D3 :da 1380 a 1390 Azione : Sisma pareti accumulo +y
			D3 :da 1391 a 1400 Azione : Sisma pareti accumulo +y
			D3 :da 1515 a 1525 Azione : Sisma pareti accumulo +y
			D3 :da 1526 a 1535 Azione : Sisma pareti accumulo +y
			D3 :da 1650 a 1660 Azione : Sisma pareti accumulo +y
			D3 :da 1661 a 1670 Azione : Sisma pareti accumulo +y
			D3 :da 1785 a 1795 Azione : Sisma pareti accumulo +y
			D3 :da 1796 a 1805 Azione : Sisma pareti accumulo +y
			D3 :da 1920 a 1930 Azione : Sisma pareti accumulo +y
			D3 :da 1931 a 1940 Azione : Sisma pareti accumulo +y
			D3 :da 2059 a 2069 Azione : Sisma pareti accumulo +y
			D3 :da 2070 a 2079 Azione : Sisma pareti accumulo +y
			D3 :da 2678 a 2688 Azione : Sisma pareti accumulo +y
			D3 :da 2689 a 2698 Azione : Sisma pareti accumulo +y
			D3 :da 2707 a 2716 Azione : Sisma pareti MBR +y
			D3 :da 2725 a 2734 Azione : Sisma pareti MBR +y
			D3 :da 2743 a 2752 Azione : Sisma pareti MBR +y
			D3 :da 2761 a 2770 Azione : Sisma pareti MBR +y
			D3 :da 2779 a 2788 Azione : Sisma pareti MBR +y
			D3 :da 2797 a 2806 Azione : Sisma pareti MBR +y
			D3 :da 2815 a 2824 Azione : Sisma pareti MBR +y
			D3 :da 2833 a 2842 Azione : Sisma pareti MBR +y
			D3 :da 2851 a 2860 Azione : Sisma pareti MBR +y
			D3 :da 2869 a 2878 Azione : Sisma pareti MBR +y
			D3 :da 2887 a 2896 Azione : Sisma pareti MBR +y
			D3 :da 2905 a 2914 Azione : Sisma pareti MBR +y
			D3 :da 2951 a 2961 Azione : Sisma pareti accumulo +y
			D3 :da 2962 a 2971 Azione : Sisma pareti accumulo +y
			D3 :da 2980 a 2989 Azione : Sisma pareti MBR +y
			D3 :da 2998 a 3007 Azione : Sisma pareti MBR +y
			D3 :da 3016 a 3025 Azione : Sisma pareti MBR +y
			D3 :da 3034 a 3043 Azione : Sisma pareti MBR +y
			D3 :da 3052 a 3061 Azione : Sisma pareti MBR +y
			D3 :da 3070 a 3079 Azione : Sisma pareti MBR +y
			..
			D3 :da 3710 a 3711 Azione : Sisma pareti accumulo +y
21	Etk	CDC=Etk (inc. sp. liquido) SLV dir - alfa=90.00	D3 :da 1344 a 1354 Azione : Sisma pareti accumulo -y
			D3 :da 1355 a 1364 Azione : Sisma pareti accumulo -y
			D3 :da 1479 a 1489 Azione : Sisma pareti accumulo -y
			D3 :da 1490 a 1499 Azione : Sisma pareti accumulo -y
			D3 :da 1614 a 1624 Azione : Sisma pareti accumulo -y
			D3 :da 1625 a 1634 Azione : Sisma pareti accumulo -y
			D3 :da 1749 a 1759 Azione : Sisma pareti accumulo -y
			D3 :da 1760 a 1769 Azione : Sisma pareti accumulo -y
			D3 :da 1884 a 1894 Azione : Sisma pareti accumulo -y

CDC	Tipo	Sigla Id	Note
			D3 :da 1895 a 1904 Azione : Sisma pareti accumulo -y
			D3 :da 2023 a 2033 Azione : Sisma pareti accumulo -y
			D3 :da 2034 a 2043 Azione : Sisma pareti accumulo -y
			D3 :da 2642 a 2652 Azione : Sisma pareti accumulo -y
			D3 :da 2653 a 2662 Azione : Sisma pareti accumulo -y
			D3 :da 2689 a 2698 Azione : Sisma pareti MBR -y
			D3 :da 2707 a 2716 Azione : Sisma pareti MBR -y
			D3 :da 2725 a 2734 Azione : Sisma pareti MBR -y
			D3 :da 2743 a 2752 Azione : Sisma pareti MBR -y
			D3 :da 2761 a 2770 Azione : Sisma pareti MBR -y
			D3 :da 2779 a 2788 Azione : Sisma pareti MBR -y
			D3 :da 2797 a 2806 Azione : Sisma pareti MBR -y
			D3 :da 2815 a 2824 Azione : Sisma pareti MBR -y
			D3 :da 2833 a 2842 Azione : Sisma pareti MBR -y
			D3 :da 2851 a 2860 Azione : Sisma pareti MBR -y
			D3 :da 2869 a 2878 Azione : Sisma pareti MBR -y
			D3 :da 2887 a 2896 Azione : Sisma pareti MBR -y
			D3 :da 2915 a 2925 Azione : Sisma pareti accumulo -y
			…
			D3 :da 3684 a 3693 Azione : Sisma pareti MBR -y
22	Qk	CDC=Qk (variabile platea e solette)	D3 :da 162 a 166 Azione : Variabile platea 1000 daN/m²
			D3 :da 169 a 189 Azione : Variabile platea 1000 daN/m²
			D3 :da 192 a 207 Azione : Variabile platea 1000 daN/m²
			D3 :da 210 a 230 Azione : Variabile platea 1000 daN/m²
			D3 :da 233 a 262 Azione : Variabile platea 1000 daN/m²
			D3 :da 265 a 285 Azione : Variabile platea 1000 daN/m²
			D3 :da 288 a 303 Azione : Variabile platea 1000 daN/m²
			D3 :da 306 a 326 Azione : Variabile platea 1000 daN/m²
			D3 :da 329 a 358 Azione : Variabile platea 1000 daN/m²
			D3 :da 361 a 381 Azione : Variabile platea 1000 daN/m²
			D3 :da 384 a 399 Azione : Variabile platea 1000 daN/m²
			D3 :da 402 a 422 Azione : Variabile platea 1000 daN/m²
			D3 :da 425 a 450 Azione : Variabile platea 1000 daN/m²
			D3 :da 453 a 473 Azione : Variabile platea 1000 daN/m²
			D3 :da 476 a 491 Azione : Variabile platea 1000 daN/m²
			D3 :da 494 a 514 Azione : Variabile platea 1000 daN/m²
			D3 :da 517 a 546 Azione : Variabile platea 1000 daN/m²
			D3 :da 549 a 569 Azione : Variabile platea 1000 daN/m²
			D3 :da 572 a 587 Azione : Variabile platea 1000 daN/m²
			D3 :da 590 a 610 Azione : Variabile platea 1000 daN/m²
			D3 :da 613 a 638 Azione : Variabile platea 1000 daN/m²
			D3 :da 641 a 661 Azione : Variabile platea 1000 daN/m²
			D3 :da 664 a 679 Azione : Variabile platea 1000 daN/m²
			D3 :da 682 a 702 Azione : Variabile platea 1000 daN/m²
			D3 :da 705 a 734 Azione : Variabile platea 1000 daN/m²
			D3 :da 737 a 757 Azione : Variabile platea 1000 daN/m²
			D3 :da 760 a 775 Azione : Variabile platea 1000 daN/m²
			D3 :da 778 a 798 Azione : Variabile platea 1000 daN/m²
			D3 :da 801 a 826 Azione : Variabile platea 1000 daN/m²
			D3 :da 829 a 849 Azione : Variabile platea 1000 daN/m²
			D3 :da 852 a 867 Azione : Variabile platea 1000 daN/m²
			D3 :da 870 a 890 Azione : Variabile platea 1000 daN/m²
			D3 :da 893 a 924 Azione : Variabile platea 1000 daN/m²
			D3 :da 927 a 947 Azione : Variabile platea 1000 daN/m²
			D3 :da 950 a 965 Azione : Variabile platea 1000 daN/m²
			D3 :da 968 a 988 Azione : Variabile platea 1000 daN/m²
			D3 :da 991 a 1016 Azione : Variabile platea 1000 daN/m²
			D3 :da 1019 a 1039 Azione : Variabile platea 1000 daN/m²
			D3 :da 1042 a 1057 Azione : Variabile platea 1000 daN/m²
			D3 :da 1060 a 1080 Azione : Variabile platea 1000 daN/m²
			D3 :da 1083 a 1114 Azione : Variabile platea 1000 daN/m²
			D3 :da 1117 a 1137 Azione : Variabile platea 1000 daN/m²
			D3 :da 1140 a 1155 Azione : Variabile platea 1000 daN/m²
			D3 :da 1158 a 1178 Azione : Variabile platea 1000 daN/m²
			D3 :da 1181 a 1210 Azione : Variabile platea 1000 daN/m²
			D3 :da 1213 a 1233 Azione : Variabile platea 1000 daN/m²
			D3 :da 1236 a 1251 Azione : Variabile platea 1000 daN/m²
			D3 :da 1254 a 1274 Azione : Variabile platea 1000 daN/m²
			D3 :da 1277 a 1297 Azione : Variabile platea 1000 daN/m²
			D3 :da 3712 a 4201 Azione : Variabile solette 300 daN/m²

2.7 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 tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: *Numero*, *Tipo*, *Sigla identificativa* e il *peso nella combinazione*, assunto per ogni caso di carico.

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

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

Combinazione caratteristica (rara) SLE

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

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

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

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

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

Dove:

NTC 2008 Tabella 2.5.I

Destinazione d'uso/azione	**ψ0**	**ψ1**	**ψ2**
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 <= 30kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota <= 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche si adotta l'approccio 2 dove si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2008 Tabella 2.6.I

		Coefficiente γf	**EQU**	**A1**	**A2**
Carichi permanenti	Favorevoli	γG1	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali	Favorevoli	γG2	0,0	0,0	0,0
(Non compiutamente definiti)	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γQi	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

TABELLA COMBINAZIONI DI CARICO

Cmb	Tipo	Sigla Id
1	SLU	Comb. SLU A1 1
2	SLU	Comb. SLU A1 2
3	SLU	Comb. SLU A1 3
4	SLU	Comb. SLU A1 4
5	SLU	Comb. SLU A1 5
6	SLU	Comb. SLU A1 6
7	SLU	Comb. SLU A1 7
8	SLU	Comb. SLU A1 8
9	SLU	Comb. SLU A1 9
10	SLU	Comb. SLU A1 10
11	SLU	Comb. SLU A1 11
12	SLU	Comb. SLU A1 12
13	SLU	Comb. SLU A1 13
14	SLU	Comb. SLU A1 14
15	SLU	Comb. SLU A1 15
16	SLU	Comb. SLU A1 16
17	SLU	Comb. SLU A1 17 perm + vasca 1
18	SLU	Comb. SLU A1 18 perm + vasca 2
19	SLU	Comb. SLU A1 19 perm + vasche
20	SLU	Comb. SLU A1 20 perm + var + vasca 1
21	SLU	Comb. SLU A1 21 perm + var + vasca 2
22	SLU	Comb. SLU A1 22 perm + var + vasche
23	SLU	Comb. SLU A1 (SLV sism.) 23
24	SLU	Comb. SLU A1 (SLV sism.) 24
25	SLU	Comb. SLU A1 (SLV sism.) 25
26	SLU	Comb. SLU A1 (SLV sism.) 26
27	SLU	Comb. SLU A1 (SLV sism.) 27
28	SLU	Comb. SLU A1 (SLV sism.) 28
29	SLU	Comb. SLU A1 (SLV sism.) 29
30	SLU	Comb. SLU A1 (SLV sism.) 30
31	SLU	Comb. SLU A1 (SLV sism.) 31
32	SLU	Comb. SLU A1 (SLV sism.) 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	SLD(sis)	Comb. SLE (SLD Danno sism.) 55
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68
69	SLD(sis)	Comb. SLE (SLD Danno sism.) 69
70	SLD(sis)	Comb. SLE (SLD Danno sism.) 70

Cmb	Tipo	Sigla Id
71	SLD(sis)	Comb. SLE (SLD Danno sism.) 71
72	SLD(sis)	Comb. SLE (SLD Danno sism.) 72
73	SLD(sis)	Comb. SLE (SLD Danno sism.) 73
74	SLD(sis)	Comb. SLE (SLD Danno sism.) 74
75	SLD(sis)	Comb. SLE (SLD Danno sism.) 75
76	SLD(sis)	Comb. SLE (SLD Danno sism.) 76
77	SLD(sis)	Comb. SLE (SLD Danno sism.) 77
78	SLD(sis)	Comb. SLE (SLD Danno sism.) 78
79	SLD(sis)	Comb. SLE (SLD Danno sism.) 79
80	SLD(sis)	Comb. SLE (SLD Danno sism.) 80
81	SLD(sis)	Comb. SLE (SLD Danno sism.) 81
82	SLD(sis)	Comb. SLE (SLD Danno sism.) 82
83	SLD(sis)	Comb. SLE (SLD Danno sism.) 83
84	SLD(sis)	Comb. SLE (SLD Danno sism.) 84
85	SLD(sis)	Comb. SLE (SLD Danno sism.) 85
86	SLD(sis)	Comb. SLE (SLD Danno sism.) 86
87	SLE(r)	Comb. SLE(rara) 87
88	SLE(r)	Comb. SLE(rara) 88
89	SLE(r)	Comb. SLE(rara) 89
90	SLE(r)	Comb. SLE(rara) 90
91	SLE(r)	Comb. SLE(rara) 91
92	SLE(r)	Comb. SLE(rara) 92
93	SLE(r)	Comb. SLE(rara) 93
94	SLE(r)	Comb. SLE(rara) 94
95	SLE(r)	Comb. SLE(rara) 95 perm + vasca 1
96	SLE(r)	Comb. SLE(rara) 96 perm + vasca 2
97	SLE(r)	Comb. SLE(rara) 97 perm + vasche
98	SLE(r)	Comb. SLE(rara) 98 perm + var + vasca 1
99	SLE(r)	Comb. SLE(rara) 99 perm + var + vasca 2
100	SLE(r)	Comb. SLE(rara) 100 perm + var + vasche

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	CDC 10	CDC 11	CDC 12	CDC 13	CDC 14
1	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
2	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
3	1.30	1.30	1.50	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50						
4	1.30	1.30	1.50	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0	0.0	0.0	0.0	0.0	0.0	1.50						
5	1.30	1.30	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
6	1.30	1.30	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
7	1.30	1.30	1.50	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50						
8	1.30	1.30	1.50	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0	0.0	0.0	0.0	0.0	0.0	1.50						
9	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
10	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
11	1.00	1.00	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50						
12	1.00	1.00	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0	0.0	0.0	0.0	0.0	0.0	1.50						
13	1.00	1.00	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
14	1.00	1.00	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
15	1.00	1.00	0.0	0.0	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50						
16	1.00	1.00	0.0	0.0	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	1.00	1.00	0.0	0.0	0.0	0.0	1.50						
17	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	1.30	0.0	0.0	0.0	0.0	0.0	0.0						
18	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	1.30	0.0	0.0	0.0	0.0	0.0						
19	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	1.30	1.30	0.0	0.0	0.0	0.0	0.0						
20	1.30	1.30	1.50	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cmb	CDC 1/15	CDC 2/16	CDC 3/17	CDC 4/18	CDC 5/19	CDC 6/20	CDC 7/21	CDC 8/22	CDC 9	CDC 10	CDC 11	CDC 12	CDC 13	CDC 14
	1.50	1.30	0.0	0.0	0.0	0.0	0.0	1.50						
21	1.30	1.30	1.50	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	0.0	1.30	0.0	0.0	0.0	0.0	1.50						
22	1.30	1.30	1.50	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.50	1.30	1.30	0.0	0.0	0.0	0.0	1.50						
23	1.00	1.00	1.00	1.00	0.80	0.80	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	1.00	0.0	0.30	0.0	0.80						
24	1.00	1.00	1.00	1.00	0.80	0.80	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	1.00	0.0	0.0	0.30	0.80						
25	1.00	1.00	1.00	1.00	0.80	0.80	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	1.00	0.30	0.0	0.80						
26	1.00	1.00	1.00	1.00	0.80	0.80	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	1.00	0.0	0.30	0.80						
27	1.00	1.00	1.00	1.00	0.80	0.80	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	1.00	0.0	0.30	0.0	0.80						
28	1.00	1.00	1.00	1.00	0.80	0.80	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	1.00	0.0	0.0	0.30	0.80						
29	1.00	1.00	1.00	1.00	0.80	0.80	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	1.00	0.30	0.0	0.80						
30	1.00	1.00	1.00	1.00	0.80	0.80	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	1.00	0.0	0.30	0.80						
31	1.00	1.00	1.00	1.00	0.80	0.80	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	1.00	0.0	0.30	0.0	0.80						
32	1.00	1.00	1.00	1.00	0.80	0.80	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	1.00	0.0	0.0	0.30	0.80						
33	1.00	1.00	1.00	1.00	0.80	0.80	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	1.00	0.30	0.0	0.80						
34	1.00	1.00	1.00	1.00	0.80	0.80	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	1.00	0.0	0.30	0.80						
35	1.00	1.00	1.00	1.00	0.80	0.80	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	1.00	0.0	0.30	0.0	0.80						
36	1.00	1.00	1.00	1.00	0.80	0.80	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	1.00	0.0	0.0	0.30	0.80						
37	1.00	1.00	1.00	1.00	0.80	0.80	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	1.00	0.30	0.0	0.80						
38	1.00	1.00	1.00	1.00	0.80	0.80	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	1.00	0.0	0.30	0.80						
39	1.00	1.00	1.00	1.00	0.80	0.80	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.30	0.0	1.00	0.0	0.80						
40	1.00	1.00	1.00	1.00	0.80	0.80	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.30	0.0	0.0	1.00	0.80						
41	1.00	1.00	1.00	1.00	0.80	0.80	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.30	1.00	0.0	0.80						
42	1.00	1.00	1.00	1.00	0.80	0.80	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.30	0.0	1.00	0.80						
43	1.00	1.00	1.00	1.00	0.80	0.80	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.30	0.0	1.00	0.0	0.80						
44	1.00	1.00	1.00	1.00	0.80	0.80	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.30	0.0	0.0	1.00	0.80						
45	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.30	1.00	0.0	0.80						
46	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.30	0.0	1.00	0.80						
47	1.00	1.00	1.00	1.00	0.80	0.80	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.30	0.0	1.00	0.0	0.80						
48	1.00	1.00	1.00	1.00	0.80	0.80	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.30	0.0	0.0	1.00	0.80						
49	1.00	1.00	1.00	1.00	0.80	0.80	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.30	1.00	0.0	0.80						
50	1.00	1.00	1.00	1.00	0.80	0.80	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.30	0.0	1.00	0.80						
51	1.00	1.00	1.00	1.00	0.80	0.80	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.30	0.0	1.00	0.0	0.80						
52	1.00	1.00	1.00	1.00	0.80	0.80	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.30	0.0	0.0	1.00	0.80						
53	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.30	1.00	0.0	0.80						
54	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.30	0.0	1.00	0.80						
55	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0
	0.0	1.00	1.00	0.50	0.0	0.15	0.0	0.80						
56	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0

Cmb	CDC 1/15	CDC 2/16	CDC 3/17	CDC 4/18	CDC 5/19	CDC 6/20	CDC 7/21	CDC 8/22	CDC 9	CDC 10	CDC 11	CDC 12	CDC 13	CDC 14
	0.0	1.00	1.00	0.50	0.0	0.0	0.15	0.80						
57	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0
	0.0	1.00	1.00	0.0	0.50	0.30	0.0	0.80						
58	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0
	0.0	1.00	1.00	0.0	0.50	0.0	0.15	0.80						
59	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30
	0.0	1.00	1.00	0.50	0.0	0.15	0.0	0.80						
60	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30
	0.0	1.00	1.00	0.50	0.0	0.0	0.15	0.80						
61	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30
	0.0	1.00	1.00	0.0	0.50	0.15	0.0	0.80						
62	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30
	0.0	1.00	1.00	0.0	0.50	0.0	0.15	0.80						
63	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0
	0.0	1.00	1.00	0.50	0.0	0.15	0.0	0.80						
64	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0
	0.0	1.00	1.00	0.50	0.0	0.0	0.15	0.80						
65	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0
	0.0	1.00	1.00	0.0	0.50	0.15	0.0	0.80						
66	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0
	0.0	1.00	1.00	0.0	0.50	0.0	0.15	0.80						
67	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30
	0.0	1.00	1.00	0.50	0.0	0.15	0.0	0.80						
68	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30
	0.0	1.00	1.00	0.50	0.0	0.0	0.15	0.80						
69	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30
	0.0	1.00	1.00	0.0	0.50	0.15	0.0	0.80						
70	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30
	0.0	1.00	1.00	0.0	0.50	0.0	0.15	0.80						
71	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0
	0.0	1.00	1.00	0.15	0.0	0.50	0.0	0.80						
72	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0
	0.0	1.00	1.00	0.15	0.0	0.0	0.50	0.80						
73	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0
	0.0	1.00	1.00	0.0	0.15	0.50	0.0	0.80						
74	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0
	0.0	1.00	1.00	0.0	0.15	0.0	0.50	0.80						
75	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0
	0.0	1.00	1.00	0.15	0.0	0.50	0.0	0.80						
76	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0
	0.0	1.00	1.00	0.15	0.0	0.0	0.50	0.80						
77	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0
	0.0	1.00	1.00	0.0	0.15	0.50	0.0	0.80						
78	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0
	0.0	1.00	1.00	0.0	0.15	0.0	0.50	0.80						
79	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00
	0.0	1.00	1.00	0.15	0.0	0.50	0.0	0.80						
80	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00
	0.0	1.00	1.00	0.15	0.0	0.0	0.50	0.80						
81	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00
	0.0	1.00	1.00	0.0	0.15	0.50	0.0	0.80						
82	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00
	0.0	1.00	1.00	0.0	0.15	0.0	0.50	0.80						
83	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00
	0.0	1.00	1.00	0.15	0.0	0.50	0.0	0.80						
84	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00
	0.0	1.00	1.00	0.15	0.0	0.0	0.50	0.80						
85	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00
	0.0	1.00	1.00	0.0	0.15	0.50	0.0	0.80						
86	1.00	1.00	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00
	0.0	1.00	1.00	0.0	0.15	0.0	0.50	0.80						
87	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
88	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
89	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00						
90	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00						
91	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
92	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	CDC 10	CDC 11	CDC 12	CDC 13	CDC 14
	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
93	1.00	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00						
94	1.00	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00						
95	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0						
96	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0						
97	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0						
98	1.00	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00						
99	1.00	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.0	1.00	0.0	0.0	0.0	0.0	1.00						
100	1.00	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	1.00	1.00	0.0	0.0	0.0	0.0	1.00						

2.8 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 Vr 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 Vr e la probabilità di superamento Pver associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno Tr e i relativi parametri di pericolosità sismica (vedi tabella successiva):

ag: accelerazione orizzontale massima del terreno;

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

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

Parametri della struttura					
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]	Tipo di suolo	Categoria topografica
IV	100.0	2.0	200.0	C	T1

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

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche

mediante la relazione seguente S = Ss*St (3.2.5)

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

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

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

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

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

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	8.872	44.410	
16917	8.872	44.395	1.662
16918	8.942	44.398	5.700
16696	8.938	44.448	6.710
16695	8.868	44.445	3.892

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	120.0	0.040	2.540	0.250
SLD	63.0	201.0	0.049	2.530	0.270
SLV	10.0	1898.0	0.105	2.540	0.310
SLC	5.0	2475.0	0.115	2.540	0.310

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.040	1.500	2.540	0.689	0.138	0.415	1.762
SLD	0.049	1.500	2.530	0.758	0.146	0.437	1.797
SLV	0.105	1.500	2.540	1.111	0.160	0.479	2.020
SLC	0.115	1.500	2.540	1.161	0.160	0.479	2.059

2.9 RISULTATI ANALISI SISMICHE

LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:
9. Esk caso di carico sismico con analisi statica equivalente
10. Edk caso di carico sismico con analisi dinamica

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

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

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

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

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

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

TABELLA ANALISI SISMICHE

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.267 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.767 sec.
			fattore di struttura q: 1.500
			fattore per spost. mu d: 1.500
			classe di duttilità CD: B
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
1500.00	1.043e+06	1097.56	2312.79	0.0	-217.50	863.66	2375.98	1.116	0.131	0.041
1340.00	2.380e+05	778.62	2605.59	0.0	-217.50	863.66	2375.98	1.116	0.048	0.150
930.00	3.963e+05	1270.29	1985.61	0.0	-217.50	1440.51	1146.05	0.496	0.251	0.491
860.00	2.048e+05	1427.50	2063.10	0.0	-217.50	1586.31	1146.24	0.472	0.246	0.491
760.00	2.515e+05	1453.48	2084.68	0.0	-217.50	1586.31	1146.24	0.472	0.205	0.502
660.00	2.515e+05	1453.48	2084.68	0.0	-217.50	1586.31	1146.24	0.472	0.205	0.502
560.00	4.955e+05	1497.21	2380.68	0.0	-217.50	1731.36	630.50	0.402	0.425	1.083
530.00	1.746e+05	624.41	2526.09	0.0	-160.00	589.38	2700.00	1.205	0.018	0.152
466.67	1.355e+05	1450.91	1721.89	0.0	-217.50	1731.38	630.09	0.402	0.510	0.676
373.33	1.333e+05	1448.70	1676.91	0.0	-217.50	1731.38	616.54	0.397	0.519	0.662
280.00	1.312e+05	1446.42	1630.45	0.0	-217.50	1731.38	616.54	0.397	0.523	0.633
186.67	1.312e+05	1446.42	1630.45	0.0	-217.50	1731.38	616.54	0.397	0.523	0.633
93.33	1.312e+05	1446.42	1630.45	0.0	-217.50	1731.38	616.54	0.397	0.523	0.633
Risulta	3.718e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.208	0.828	0.154	9.022e+04	2.4	1.165e+06	31.3	129.53	3.48e-03	0.0	0.0
2	1.303	0.767	0.166	1.492e+06	40.1	1.161e+05	3.1	2087.01	5.61e-02	0.0	0.0
3	1.364	0.733	0.174	1.593e+05	4.3	1.64	4.42e-05	1.79	4.82e-05	0.0	0.0
4	1.622	0.617	0.207	7.000e+04	1.9	1.154e+05	3.1	47.13	1.27e-03	0.0	0.0
5	2.690	0.372	0.267	5794.35	0.2	1.94	5.21e-05	16.51	4.44e-04	0.0	0.0
6	3.217	0.311	0.267	204.20	5.49e-03	30.18	8.12e-04	7.858e+04	2.1	0.0	0.0
7	4.230	0.236	0.267	8.911e+05	24.0	3009.45	8.09e-02	2.618e+05	7.0	0.0	0.0
8	4.689	0.213	0.267	7893.04	0.2	6.591e+05	17.7	1.084e+04	0.3	0.0	0.0
9	5.084	0.197	0.267	1.773e+04	0.5	4.547e+04	1.2	1.363e+05	3.7	0.0	0.0
10	7.188	0.139	0.252	2.052e+05	5.5	2.169e+04	0.6	3.019e+06	81.2	0.0	0.0
11	8.443	0.118	0.238	4.361e+04	1.2	1.336e+06	35.9	8.001e+04	2.2	0.0	0.0
12	10.595	0.094	0.222	6.475e+05	17.4	9.924e+04	2.7	8.385e+04	2.3	0.0	0.0
Risulta				3.630e+06		3.561e+06		3.673e+06			
In percentuale				97.65		95.79		98.79			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.267 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.883 sec.
			fattore di struttura q: 1.500
			fattore per spost. mu d: 1.500
			classe di duttilità CD: B
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
1500.00	1.043e+06	1097.56	2312.79	0.0	217.50	863.66	2375.98	1.116	0.131	0.041

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
1340.00	2.380e+05	778.62	2605.59	0.0	217.50	863.66	2375.98	1.116	0.048	0.150
930.00	3.963e+05	1270.29	1985.61	0.0	217.50	1440.51	1146.05	0.496	0.251	0.491
860.00	2.048e+05	1427.50	2063.10	0.0	217.50	1586.31	1146.24	0.472	0.246	0.491
760.00	2.515e+05	1453.48	2084.68	0.0	217.50	1586.31	1146.24	0.472	0.205	0.502
660.00	2.515e+05	1453.48	2084.68	0.0	217.50	1586.31	1146.24	0.472	0.205	0.502
560.00	4.955e+05	1497.21	2380.68	0.0	217.50	1731.36	630.50	0.402	0.425	1.083
530.00	1.746e+05	624.41	2526.09	0.0	160.00	589.38	2700.00	1.205	0.018	0.152
466.67	1.355e+05	1450.91	1721.89	0.0	217.50	1731.38	630.09	0.402	0.510	0.676
373.33	1.333e+05	1448.70	1676.91	0.0	217.50	1731.38	616.54	0.397	0.519	0.662
280.00	1.312e+05	1446.42	1630.45	0.0	217.50	1731.38	616.54	0.397	0.523	0.633
186.67	1.312e+05	1446.42	1630.45	0.0	217.50	1731.38	616.54	0.397	0.523	0.633
93.33	1.312e+05	1446.42	1630.45	0.0	217.50	1731.38	616.54	0.397	0.523	0.633
Risulta	3.718e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.133	0.883	0.145	8.407e+05	22.6	3.813e+05	10.3	802.93	2.16e-02	0.0	0.0
2	1.272	0.786	0.163	4.872e+05	13.1	9.688e+05	26.1	664.00	1.79e-02	0.0	0.0
3	1.414	0.707	0.181	1.734e+05	4.7	9.24	2.48e-04	4.05	1.09e-04	0.0	0.0
4	1.764	0.567	0.225	3.299e+05	8.9	4.660e+04	1.3	1033.18	2.78e-02	0.0	0.0
5	3.218	0.311	0.267	152.35	4.10e-03	14.90	4.01e-04	7.906e+04	2.1	0.0	0.0
6	3.880	0.258	0.267	1.540e+05	4.1	1134.28	3.05e-02	1.512e+04	0.4	0.0	0.0
7	4.101	0.244	0.267	6.889e+05	18.5	5.229e+04	1.4	1.932e+05	5.2	0.0	0.0
8	4.749	0.211	0.267	4.649e+04	1.3	5.875e+05	15.8	8.830e+04	2.4	0.0	0.0
9	5.517	0.181	0.267	3.951e+04	1.1	1.322e+05	3.6	1.428e+05	3.8	0.0	0.0
10	7.214	0.139	0.252	1.735e+05	4.7	8222.45	0.2	3.030e+06	81.5	0.0	0.0
11	8.666	0.115	0.236	7.061e+04	1.9	1.263e+06	34.0	5.184e+04	1.4	0.0	0.0
12	10.524	0.095	0.222	5.896e+05	15.9	1.495e+05	4.0	6.837e+04	1.8	0.0	0.0
Risulta				3.594e+06		3.591e+06		3.671e+06			
In percentuale				96.67		96.59		98.75			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.267 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.119 sec.
			fattore di struttura q: 1.500
			fattore per spost. mu d: 3.014
			classe di duttilità CD: B
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
1500.00	1.043e+06	1097.56	2312.79	95.00	0.0	863.66	2375.98	1.116	0.131	0.041
1340.00	2.380e+05	778.62	2605.59	95.00	0.0	863.66	2375.98	1.116	0.048	0.150
930.00	3.963e+05	1270.29	1985.61	95.00	0.0	1440.51	1146.05	0.496	0.251	0.491
860.00	2.048e+05	1427.50	2063.10	95.00	0.0	1586.31	1146.24	0.472	0.246	0.491
760.00	2.515e+05	1453.48	2084.68	95.00	0.0	1586.31	1146.24	0.472	0.205	0.502
660.00	2.515e+05	1453.48	2084.68	95.00	0.0	1586.31	1146.24	0.472	0.205	0.502
560.00	4.955e+05	1497.21	2380.68	95.00	0.0	1731.36	630.50	0.402	0.425	1.083
530.00	1.746e+05	624.41	2526.09	40.00	0.0	589.38	2700.00	1.205	0.018	0.152
466.67	1.355e+05	1450.91	1721.89	95.00	0.0	1731.38	630.09	0.402	0.510	0.676
373.33	1.333e+05	1448.70	1676.91	95.00	0.0	1731.38	616.54	0.397	0.519	0.662
280.00	1.312e+05	1446.42	1630.45	95.00	0.0	1731.38	616.54	0.397	0.523	0.633
186.67	1.312e+05	1446.42	1630.45	95.00	0.0	1731.38	616.54	0.397	0.523	0.633
93.33	1.312e+05	1446.42	1630.45	95.00	0.0	1731.38	616.54	0.397	0.523	0.633
Risulta	3.718e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.202	0.832	0.153	6.724e+05	18.1	5.853e+05	15.7	787.54	2.12e-02	0.0	0.0
2	1.278	0.783	0.163	7.087e+05	19.1	7.621e+05	20.5	980.28	2.64e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
3	1.396	0.716	0.178	1.713e+05	4.6	4.67	1.26e-04	3.68	9.91e-05	0.0	0.0
4	1.647	0.607	0.210	2.682e+05	7.2	4.390e+04	1.2	539.24	1.45e-02	0.0	0.0
5	2.588	0.386	0.267	3176.06	8.54e-02	653.15	1.76e-02	5.76	1.55e-04	0.0	0.0
6	3.218	0.311	0.267	146.17	3.93e-03	24.03	6.46e-04	7.890e+04	2.1	0.0	0.0
7	4.174	0.240	0.267	8.718e+05	23.4	1.399e+04	0.4	2.423e+05	6.5	0.0	0.0
8	4.731	0.211	0.267	2.071e+04	0.6	6.534e+05	17.6	3.204e+04	0.9	0.0	0.0
9	5.044	0.198	0.267	1.383e+04	0.4	4.272e+04	1.1	1.134e+05	3.0	0.0	0.0
10	7.187	0.139	0.252	1.991e+05	5.4	5617.59	0.2	3.073e+06	82.6	0.0	0.0
11	8.408	0.119	0.239	2.969e+04	0.8	1.395e+06	37.5	3.625e+04	1.0	0.0	0.0
12	10.508	0.095	0.222	6.608e+05	17.8	5.777e+04	1.6	9.512e+04	2.6	0.0	0.0
Risulta				3.620e+06		3.560e+06		3.673e+06			
In percentuale				97.37		95.76		98.80			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.267 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.125 sec.
			fattore di struttura q: 1.500
			fattore per spost. mu d: 2.919
			classe di duttilità CD: B
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
1500.00	1.043e+06	1097.56	2312.79	-95.00	0.0	863.66	2375.98	1.116	0.131	0.041
1340.00	2.380e+05	778.62	2605.59	-95.00	0.0	863.66	2375.98	1.116	0.048	0.150
930.00	3.963e+05	1270.29	1985.61	-95.00	0.0	1440.51	1146.05	0.496	0.251	0.491
860.00	2.048e+05	1427.50	2063.10	-95.00	0.0	1586.31	1146.24	0.472	0.246	0.491
760.00	2.515e+05	1453.48	2084.68	-95.00	0.0	1586.31	1146.24	0.472	0.205	0.502
660.00	2.515e+05	1453.48	2084.68	-95.00	0.0	1586.31	1146.24	0.472	0.205	0.502
560.00	4.955e+05	1497.21	2380.68	-95.00	0.0	1731.36	630.50	0.402	0.425	1.083
530.00	1.746e+05	624.41	2526.09	-40.00	0.0	589.38	2700.00	1.205	0.018	0.152
466.67	1.355e+05	1450.91	1721.89	-95.00	0.0	1731.38	630.09	0.402	0.510	0.676
373.33	1.333e+05	1448.70	1676.91	-95.00	0.0	1731.38	616.54	0.397	0.519	0.662
280.00	1.312e+05	1446.42	1630.45	-95.00	0.0	1731.38	616.54	0.397	0.523	0.633
186.67	1.312e+05	1446.42	1630.45	-95.00	0.0	1731.38	616.54	0.397	0.523	0.633
93.33	1.312e+05	1446.42	1630.45	-95.00	0.0	1731.38	616.54	0.397	0.523	0.633
Risulta	3.718e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.155	0.866	0.148	3.716e+05	10.0	8.319e+05	22.4	406.53	1.09e-02	0.0	0.0
2	1.288	0.776	0.165	1.085e+06	29.2	4.574e+05	12.3	1489.81	4.01e-02	0.0	0.0
3	1.396	0.717	0.178	1.680e+05	4.5	2.55	6.86e-05	3.13	8.41e-05	0.0	0.0
4	1.700	0.588	0.217	1.961e+05	5.3	1.129e+05	3.0	411.40	1.11e-02	0.0	0.0
5	3.001	0.333	0.267	9237.08	0.2	964.53	2.59e-02	160.03	4.30e-03	0.0	0.0
6	3.217	0.311	0.267	364.28	9.80e-03	1.93	5.20e-05	7.807e+04	2.1	0.0	0.0
7	4.162	0.240	0.267	7.970e+05	21.4	3.889e+04	1.0	2.349e+05	6.3	0.0	0.0
8	4.578	0.218	0.267	7.864e+04	2.1	5.443e+05	14.6	4.863e+04	1.3	0.0	0.0
9	5.381	0.186	0.267	3.832e+04	1.0	5.089e+04	1.4	1.516e+05	4.1	0.0	0.0
10	7.197	0.139	0.252	2.021e+05	5.4	5.230e+04	1.4	2.917e+06	78.5	0.0	0.0
11	8.011	0.125	0.243	4.447e+04	1.2	1.264e+06	34.0	1.744e+05	4.7	0.0	0.0
12	10.522	0.095	0.222	6.065e+05	16.3	1.615e+05	4.3	6.413e+04	1.7	0.0	0.0
Risulta				3.597e+06		3.515e+06		3.671e+06			
In percentuale				96.76		94.55		98.74			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.187 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.767 sec.
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
1500.00	1.043e+06	1097.56	2312.79	0.0	-217.50	863.66	2375.98	1.116	0.131	0.041
1340.00	2.380e+05	778.62	2605.59	0.0	-217.50	863.66	2375.98	1.116	0.048	0.150
930.00	3.963e+05	1270.29	1985.61	0.0	-217.50	1440.51	1146.05	0.496	0.251	0.491
860.00	2.048e+05	1427.50	2063.10	0.0	-217.50	1586.31	1146.24	0.472	0.246	0.491
760.00	2.515e+05	1453.48	2084.68	0.0	-217.50	1586.31	1146.24	0.472	0.205	0.502
660.00	2.515e+05	1453.48	2084.68	0.0	-217.50	1586.31	1146.24	0.472	0.205	0.502
560.00	4.955e+05	1497.21	2380.68	0.0	-217.50	1731.36	630.50	0.402	0.425	1.083
530.00	1.746e+05	624.41	2526.09	0.0	-160.00	589.38	2700.00	1.205	0.018	0.152
466.67	1.355e+05	1450.91	1721.89	0.0	-217.50	1731.38	630.09	0.402	0.510	0.676
373.33	1.333e+05	1448.70	1676.91	0.0	-217.50	1731.38	616.54	0.397	0.519	0.662
280.00	1.312e+05	1446.42	1630.45	0.0	-217.50	1731.38	616.54	0.397	0.523	0.633
186.67	1.312e+05	1446.42	1630.45	0.0	-217.50	1731.38	616.54	0.397	0.523	0.633
93.33	1.312e+05	1446.42	1630.45	0.0	-217.50	1731.38	616.54	0.397	0.523	0.633
Risulta	3.718e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.208	0.828	0.099	9.022e+04	2.4	1.165e+06	31.3	129.53	3.48e-03	0.0	0.0
2	1.303	0.767	0.106	1.492e+06	40.1	1.161e+05	3.1	2087.01	5.61e-02	0.0	0.0
3	1.364	0.733	0.111	1.593e+05	4.3	1.64	4.42e-05	1.79	4.82e-05	0.0	0.0
4	1.622	0.617	0.132	7.000e+04	1.9	1.154e+05	3.1	47.13	1.27e-03	0.0	0.0
5	2.690	0.372	0.187	5794.35	0.2	1.94	5.21e-05	16.51	4.44e-04	0.0	0.0
6	3.217	0.311	0.187	204.20	5.49e-03	30.18	8.12e-04	7.858e+04	2.1	0.0	0.0
7	4.230	0.236	0.187	8.911e+05	24.0	3009.45	8.09e-02	2.618e+05	7.0	0.0	0.0
8	4.689	0.213	0.187	7893.04	0.2	6.591e+05	17.7	1.084e+04	0.3	0.0	0.0
9	5.084	0.197	0.187	1.773e+04	0.5	4.547e+04	1.2	1.363e+05	3.7	0.0	0.0
10	7.188	0.139	0.181	2.052e+05	5.5	2.169e+04	0.6	3.019e+06	81.2	0.0	0.0
11	8.443	0.118	0.165	4.361e+04	1.2	1.336e+06	35.9	8.001e+04	2.2	0.0	0.0
12	10.595	0.094	0.147	6.475e+05	17.4	9.924e+04	2.7	8.385e+04	2.3	0.0	0.0
Risulta				3.630e+06		3.561e+06		3.673e+06			
In percentuale				97.65		95.79		98.79			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.187 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.883 sec.
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
1500.00	1.043e+06	1097.56	2312.79	0.0	217.50	863.66	2375.98	1.116	0.131	0.041
1340.00	2.380e+05	778.62	2605.59	0.0	217.50	863.66	2375.98	1.116	0.048	0.150
930.00	3.963e+05	1270.29	1985.61	0.0	217.50	1440.51	1146.05	0.496	0.251	0.491
860.00	2.048e+05	1427.50	2063.10	0.0	217.50	1586.31	1146.24	0.472	0.246	0.491
760.00	2.515e+05	1453.48	2084.68	0.0	217.50	1586.31	1146.24	0.472	0.205	0.502
660.00	2.515e+05	1453.48	2084.68	0.0	217.50	1586.31	1146.24	0.472	0.205	0.502
560.00	4.955e+05	1497.21	2380.68	0.0	217.50	1731.36	630.50	0.402	0.425	1.083
530.00	1.746e+05	624.41	2526.09	0.0	160.00	589.38	2700.00	1.205	0.018	0.152
466.67	1.355e+05	1450.91	1721.89	0.0	217.50	1731.38	630.09	0.402	0.510	0.676
373.33	1.333e+05	1448.70	1676.91	0.0	217.50	1731.38	616.54	0.397	0.519	0.662

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
280.00	1.312e+05	1446.42	1630.45	0.0	217.50	1731.38	616.54	0.397	0.523	0.633
186.67	1.312e+05	1446.42	1630.45	0.0	217.50	1731.38	616.54	0.397	0.523	0.633
93.33	1.312e+05	1446.42	1630.45	0.0	217.50	1731.38	616.54	0.397	0.523	0.633
Risulta	3.718e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.133	0.883	0.092	8.407e+05	22.6	3.813e+05	10.3	802.93	2.16e-02	0.0	0.0
2	1.272	0.786	0.104	4.872e+05	13.1	9.688e+05	26.1	664.00	1.79e-02	0.0	0.0
3	1.414	0.707	0.115	1.734e+05	4.7	9.24	2.48e-04	4.05	1.09e-04	0.0	0.0
4	1.764	0.567	0.144	3.299e+05	8.9	4.660e+04	1.3	1033.18	2.78e-02	0.0	0.0
5	3.218	0.311	0.187	152.35	4.10e-03	14.90	4.01e-04	7.906e+04	2.1	0.0	0.0
6	3.880	0.258	0.187	1.540e+05	4.1	1134.28	3.05e-02	1.512e+04	0.4	0.0	0.0
7	4.101	0.244	0.187	6.889e+05	18.5	5.229e+04	1.4	1.932e+05	5.2	0.0	0.0
8	4.749	0.211	0.187	4.649e+04	1.3	5.875e+05	15.8	8.830e+04	2.4	0.0	0.0
9	5.517	0.181	0.187	3.951e+04	1.1	1.322e+05	3.6	1.428e+05	3.8	0.0	0.0
10	7.214	0.139	0.181	1.735e+05	4.7	8222.45	0.2	3.030e+06	81.5	0.0	0.0
11	8.666	0.115	0.163	7.061e+04	1.9	1.263e+06	34.0	5.184e+04	1.4	0.0	0.0
12	10.524	0.095	0.147	5.896e+05	15.9	1.495e+05	4.0	6.837e+04	1.8	0.0	0.0
Risulta				3.594e+06		3.591e+06		3.671e+06			
In percentuale				96.67		96.59		98.75			

CDC	Tipo	Sigla Id	Note
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.187 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.119 sec.
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
1500.00	1.043e+06	1097.56	2312.79	95.00	0.0	863.66	2375.98	1.116	0.131	0.041
1340.00	2.380e+05	778.62	2605.59	95.00	0.0	863.66	2375.98	1.116	0.048	0.150
930.00	3.963e+05	1270.29	1985.61	95.00	0.0	1440.51	1146.05	0.496	0.251	0.491
860.00	2.048e+05	1427.50	2063.10	95.00	0.0	1586.31	1146.24	0.472	0.246	0.491
760.00	2.515e+05	1453.48	2084.68	95.00	0.0	1586.31	1146.24	0.472	0.205	0.502
660.00	2.515e+05	1453.48	2084.68	95.00	0.0	1586.31	1146.24	0.472	0.205	0.502
560.00	4.955e+05	1497.21	2380.68	95.00	0.0	1731.36	630.50	0.402	0.425	1.083
530.00	1.746e+05	624.41	2526.09	40.00	0.0	589.38	2700.00	1.205	0.018	0.152
466.67	1.355e+05	1450.91	1721.89	95.00	0.0	1731.38	630.09	0.402	0.510	0.676
373.33	1.333e+05	1448.70	1676.91	95.00	0.0	1731.38	616.54	0.397	0.519	0.662
280.00	1.312e+05	1446.42	1630.45	95.00	0.0	1731.38	616.54	0.397	0.523	0.633
186.67	1.312e+05	1446.42	1630.45	95.00	0.0	1731.38	616.54	0.397	0.523	0.633
93.33	1.312e+05	1446.42	1630.45	95.00	0.0	1731.38	616.54	0.397	0.523	0.633
Risulta	3.718e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.202	0.832	0.098	6.724e+05	18.1	5.853e+05	15.7	787.54	2.12e-02	0.0	0.0
2	1.278	0.783	0.104	7.087e+05	19.1	7.621e+05	20.5	980.28	2.64e-02	0.0	0.0
3	1.396	0.716	0.114	1.713e+05	4.6	4.67	1.26e-04	3.68	9.91e-05	0.0	0.0
4	1.647	0.607	0.134	2.682e+05	7.2	4.390e+04	1.2	539.24	1.45e-02	0.0	0.0
5	2.588	0.386	0.187	3176.06	8.54e-02	653.15	1.76e-02	5.76	1.55e-04	0.0	0.0
6	3.218	0.311	0.187	146.17	3.93e-03	24.03	6.46e-04	7.890e+04	2.1	0.0	0.0
7	4.174	0.240	0.187	8.718e+05	23.4	1.399e+04	0.4	2.423e+05	6.5	0.0	0.0
8	4.731	0.211	0.187	2.071e+04	0.6	6.534e+05	17.6	3.204e+04	0.9	0.0	0.0
9	5.044	0.198	0.187	1.383e+04	0.4	4.272e+04	1.1	1.134e+05	3.0	0.0	0.0
10	7.187	0.139	0.181	1.991e+05	5.4	5617.59	0.2	3.073e+06	82.6	0.0	0.0
11	8.408	0.119	0.166	2.969e+04	0.8	1.395e+06	37.5	3.625e+04	1.0	0.0	0.0
12	10.508	0.095	0.147	6.608e+05	17.8	5.777e+04	1.6	9.512e+04	2.6	0.0	0.0
Risulta				3.620e+06		3.560e+06		3.673e+06			
In				97.37		95.76		98.80			

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											

CDC	Tipo	Sigla Id	Note
14	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.187 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.125 sec.
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
1500.00	1.043e+06	1097.56	2312.79	-95.00	0.0	863.66	2375.98	1.116	0.131	0.041
1340.00	2.380e+05	778.62	2605.59	-95.00	0.0	863.66	2375.98	1.116	0.048	0.150
930.00	3.963e+05	1270.29	1985.61	-95.00	0.0	1440.51	1146.05	0.496	0.251	0.491
860.00	2.048e+05	1427.50	2063.10	-95.00	0.0	1586.31	1146.24	0.472	0.246	0.491
760.00	2.515e+05	1453.48	2084.68	-95.00	0.0	1586.31	1146.24	0.472	0.205	0.502
660.00	2.515e+05	1453.48	2084.68	-95.00	0.0	1586.31	1146.24	0.472	0.205	0.502
560.00	4.955e+05	1497.21	2380.68	-95.00	0.0	1731.36	630.50	0.402	0.425	1.083
530.00	1.746e+05	624.41	2526.09	-40.00	0.0	589.38	2700.00	1.205	0.018	0.152
466.67	1.355e+05	1450.91	1721.89	-95.00	0.0	1731.38	630.09	0.402	0.510	0.676
373.33	1.333e+05	1448.70	1676.91	-95.00	0.0	1731.38	616.54	0.397	0.519	0.662
280.00	1.312e+05	1446.42	1630.45	-95.00	0.0	1731.38	616.54	0.397	0.523	0.633
186.67	1.312e+05	1446.42	1630.45	-95.00	0.0	1731.38	616.54	0.397	0.523	0.633
93.33	1.312e+05	1446.42	1630.45	-95.00	0.0	1731.38	616.54	0.397	0.523	0.633
Risulta	3.718e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	1.155	0.866	0.094	3.716e+05	10.0	8.319e+05	22.4	406.53	1.09e-02	0.0	0.0
2	1.288	0.776	0.105	1.085e+06	29.2	4.574e+05	12.3	1489.81	4.01e-02	0.0	0.0
3	1.396	0.717	0.114	1.680e+05	4.5	2.55	6.86e-05	3.13	8.41e-05	0.0	0.0
4	1.700	0.588	0.139	1.961e+05	5.3	1.129e+05	3.0	411.40	1.11e-02	0.0	0.0
5	3.001	0.333	0.187	9237.08	0.2	964.53	2.59e-02	160.03	4.30e-03	0.0	0.0
6	3.217	0.311	0.187	364.28	9.80e-03	1.93	5.20e-05	7.807e+04	2.1	0.0	0.0
7	4.162	0.240	0.187	7.970e+05	21.4	3.889e+04	1.0	2.349e+05	6.3	0.0	0.0
8	4.578	0.218	0.187	7.864e+04	2.1	5.443e+05	14.6	4.863e+04	1.3	0.0	0.0
9	5.381	0.186	0.187	3.832e+04	1.0	5.089e+04	1.4	1.516e+05	4.1	0.0	0.0
10	7.197	0.139	0.181	2.021e+05	5.4	5.230e+04	1.4	2.917e+06	78.5	0.0	0.0
11	8.011	0.125	0.170	4.447e+04	1.2	1.264e+06	34.0	1.744e+05	4.7	0.0	0.0
12	10.522	0.095	0.147	6.065e+05	16.3	1.615e+05	4.3	6.413e+04	1.7	0.0	0.0
Risulta				3.597e+06		3.515e+06		3.671e+06			
In percentuale				96.76		94.55		98.74			

Per ciascuna combinazione sismica definita SLD viene riportato il livello di deformazione etaT (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità 1000*etaT/h da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura o 10.0 per edifici con tamponamenti collegati elasticamente).

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
			cm	cm			cm	cm			cm	cm
55	37	3.51	1.86	530.0	38	3.51	1.86	530.0	39	3.39	1.79	530.0
	40	3.38	1.79	530.0	41	3.12	1.65	530.0	42	3.12	1.65	530.0
	43	2.82	1.49	530.0	44	2.82	1.50	530.0	45	2.52	1.34	530.0
	46	2.52	1.33	530.0	47	2.53	1.34	530.0	48	2.07	1.10	530.0
	49	2.08	1.10	530.0	50	2.09	1.11	530.0	51	1.96	1.04	530.0
	52	1.96	1.04	530.0	53	0.90	0.51	560.0	54	1.04	0.58	560.0
	55	1.19	0.66	560.0	56	1.23	0.69	560.0	57	1.25	0.70	560.0
	58	1.26	0.70	560.0	59	1.43	1.33	930.0	121	1.74	2.34	1340.0
	122	2.05	2.75	1340.0	123	2.17	2.90	1340.0	124	2.28	3.06	1340.0
	125	2.41	3.23	1340.0	126	0.96	0.36	370.0	127	1.07	0.40	370.0
	128	1.15	0.43	370.0	129	1.18	0.44	370.0	130	1.21	0.45	370.0
	131	1.23	0.45	370.0	132	2.54	1.04	410.0	133	2.48	1.02	410.0
	134	2.19	0.90	410.0	135	2.71	1.11	410.0	136	2.60	1.07	410.0
	137	2.35	0.96	410.0	138	2.21	0.91	410.0	139	2.74	1.12	410.0
	140	2.42	0.99	410.0	141	2.81	1.15	410.0	142	2.48	1.02	410.0
	143	3.37	1.38	410.0	144	3.07	1.26	410.0	145	3.60	1.48	410.0
	146	3.29	1.35	410.0	147	3.86	1.58	410.0	148	3.55	1.46	410.0
	149	4.17	1.71	410.0	150	3.82	1.57	410.0	151	4.17	0.67	160.0
	152	4.03	0.64	160.0	153	3.42	0.55	160.0	154	4.45	0.71	160.0
	155	4.33	0.69	160.0	156	3.72	0.60	160.0	157	2.36	0.38	160.0
	158	4.04	0.65	160.0	159	3.77	0.60	160.0	160	2.59	0.41	160.0
	161	4.05	0.65	160.0	162	3.82	0.61	160.0	163	3.05	0.49	160.0
	164	4.86	0.78	160.0	165	4.79	0.77	160.0	166	3.22	0.51	160.0
	167	5.17	0.83	160.0	168	5.16	0.83	160.0	169	3.42	0.55	160.0
	170	5.55	0.89	160.0	171	5.60	0.90	160.0	172	3.61	0.58	160.0
	173	5.87	0.94	160.0	174	6.00	0.96	160.0				
56	37	3.47	1.84	530.0	38	3.44	1.82	530.0	39	3.36	1.78	530.0
	40	3.33	1.76	530.0	41	3.12	1.65	530.0	42	3.09	1.64	530.0
	43	2.88	1.52	530.0	44	2.84	1.51	530.0	45	2.61	1.38	530.0
	46	2.62	1.39	530.0	47	2.58	1.36	530.0	48	2.23	1.18	530.0
	49	2.25	1.19	530.0	50	2.20	1.16	530.0	51	2.11	1.12	530.0
	52	2.07	1.09	530.0	53	0.99	0.55	560.0	54	1.11	0.62	560.0
	55	1.11	0.62	560.0	56	1.14	0.64	560.0	57	1.13	0.63	560.0
	58	1.10	0.62	560.0	59	1.57	1.46	930.0	121	1.86	2.50	1340.0
	122	1.72	2.30	1340.0	123	1.79	2.39	1340.0	124	1.84	2.47	1340.0
	125	1.89	2.54	1340.0	126	1.03	0.38	370.0	127	1.12	0.41	370.0
	128	1.10	0.41	370.0	129	1.11	0.41	370.0	130	1.11	0.41	370.0
	131	1.11	0.41	370.0	132	2.66	1.09	410.0	133	2.66	1.09	410.0
	134	3.06	1.25	410.0	135	2.78	1.14	410.0	136	2.75	1.13	410.0
	137	3.14	1.29	410.0	138	2.29	0.94	410.0	139	2.87	1.18	410.0
	140	3.19	1.31	410.0	141	2.96	1.21	410.0	142	3.27	1.34	410.0
	143	2.63	1.08	410.0	144	3.04	1.25	410.0	145	2.77	1.13	410.0
	146	3.15	1.29	410.0	147	2.93	1.20	410.0	148	3.28	1.34	410.0
	149	3.12	1.28	410.0	150	3.40	1.40	410.0	151	4.30	0.69	160.0
	152	4.33	0.69	160.0	153	4.90	0.78	160.0	154	4.52	0.72	160.0
	155	4.52	0.72	160.0	156	5.07	0.81	160.0	157	2.31	0.37	160.0
	158	4.16	0.67	160.0	159	5.04	0.81	160.0	160	2.63	0.42	160.0
	161	4.24	0.68	160.0	162	5.12	0.82	160.0	163	2.50	0.40	160.0
	164	3.72	0.60	160.0	165	4.65	0.74	160.0	166	2.61	0.42	160.0
	167	3.93	0.63	160.0	168	4.84	0.78	160.0	169	2.74	0.44	160.0
	170	4.16	0.67	160.0	171	5.06	0.81	160.0	172	2.89	0.46	160.0
	173	4.34	0.69	160.0	174	5.23	0.84	160.0				
57	37	2.95	1.56	530.0	38	2.95	1.57	530.0	39	2.86	1.52	530.0
	40	2.87	1.52	530.0	41	2.67	1.42	530.0	42	2.67	1.42	530.0
	43	2.48	1.32	530.0	44	2.48	1.32	530.0	45	2.28	1.21	530.0
	46	2.28	1.21	530.0	47	2.27	1.20	530.0	48	1.97	1.04	530.0
	49	1.98	1.05	530.0	50	1.96	1.04	530.0	51	1.87	0.99	530.0
	52	1.86	0.99	530.0	53	0.09	0.05	560.0	54	0.16	0.09	560.0
	55	0.27	0.15	560.0	56	0.32	0.18	560.0	57	0.38	0.21	560.0
	58	0.44	0.25	560.0	59	0.53	0.50	930.0	121	0.62	0.83	1340.0
	122	0.42	0.57	1340.0	123	0.42	0.57	1340.0	124	0.43	0.57	1340.0
	125	0.43	0.58	1340.0	126	0.43	0.16	370.0	127	0.53	0.20	370.0
	128	0.60	0.22	370.0	129	0.61	0.22	370.0	130	0.60	0.22	370.0
	131	0.54	0.20	370.0	132	0.89	0.37	410.0	133	0.82	0.34	410.0

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
			cm	cm			cm	cm			cm	cm
	134	1.46	0.60	410.0	135	0.89	0.36	410.0	136	0.76	0.31	410.0
	137	1.42	0.58	410.0	138	0.78	0.32	410.0	139	0.53	0.22	410.0
	140	1.31	0.54	410.0	141	0.32	0.13	410.0	142	1.24	0.51	410.0
	143	0.49	0.20	410.0	144	1.38	0.57	410.0	145	0.59	0.24	410.0
	146	1.42	0.58	410.0	147	0.68	0.28	410.0	148	1.45	0.60	410.0
	149	0.70	0.29	410.0	150	1.54	0.63	410.0	151	3.02	0.48	160.0
	152	3.03	0.48	160.0	153	3.74	0.60	160.0	154	2.97	0.48	160.0
	155	3.06	0.49	160.0	156	3.74	0.60	160.0	157	0.75	0.12	160.0
	158	3.09	0.50	160.0	159	3.91	0.63	160.0	160	0.78	0.12	160.0
	161	3.38	0.54	160.0	162	4.17	0.67	160.0	163	0.50	0.08	160.0
	164	2.85	0.46	160.0	165	3.69	0.59	160.0	166	0.51	0.08	160.0
	167	2.93	0.47	160.0	168	3.75	0.60	160.0	169	0.50	0.08	160.0
	170	2.97	0.47	160.0	171	3.79	0.61	160.0	172	0.42	0.07	160.0
	173	2.92	0.47	160.0	174	3.86	0.62	160.0				
58	37	3.02	1.60	530.0	38	3.05	1.62	530.0	39	2.91	1.54	530.0
	40	2.95	1.56	530.0	41	2.69	1.43	530.0	42	2.73	1.45	530.0
	43	2.45	1.30	530.0	44	2.49	1.32	530.0	45	2.21	1.17	530.0
	46	2.21	1.17	530.0	47	2.25	1.19	530.0	48	1.84	0.97	530.0
	49	1.84	0.98	530.0	50	1.89	1.00	530.0	51	1.74	0.92	530.0
	52	1.78	0.95	530.0	53	0.13	0.07	560.0	54	0.21	0.12	560.0
	55	0.22	0.12	560.0	56	0.26	0.15	560.0	57	0.30	0.17	560.0
	58	0.35	0.19	560.0	59	0.60	0.56	930.0	121	0.72	0.96	1340.0
	122	0.90	1.20	1340.0	123	0.94	1.27	1340.0	124	1.00	1.34	1340.0
	125	1.07	1.44	1340.0	126	0.52	0.19	370.0	127	0.58	0.21	370.0
	128	0.54	0.20	370.0	129	0.52	0.19	370.0	130	0.47	0.18	370.0
	131	0.39	0.14	370.0	132	1.23	0.51	410.0	133	1.29	0.53	410.0
	134	0.12	0.05	410.0	135	1.24	0.51	410.0	136	1.28	0.53	410.0
	137	0.10	0.04	410.0	138	0.95	0.39	410.0	139	1.37	0.56	410.0
	140	0.25	0.10	410.0	141	1.41	0.58	410.0	142	0.40	0.17	410.0
	143	1.42	0.58	410.0	144	0.26	0.11	410.0	145	1.54	0.63	410.0
	146	0.35	0.15	410.0	147	1.60	0.66	410.0	148	0.50	0.20	410.0
	149	1.70	0.70	410.0	150	0.60	0.25	410.0	151	2.93	0.47	160.0
	152	2.99	0.48	160.0	153	2.19	0.35	160.0	154	3.00	0.48	160.0
	155	3.10	0.50	160.0	156	2.31	0.37	160.0	157	1.18	0.19	160.0
	158	3.12	0.50	160.0	159	2.63	0.42	160.0	160	1.29	0.21	160.0
	161	3.37	0.54	160.0	162	2.93	0.47	160.0	163	1.47	0.24	160.0
	164	4.16	0.67	160.0	165	3.90	0.62	160.0	166	1.52	0.24	160.0
	167	4.35	0.70	160.0	168	4.13	0.66	160.0	169	1.58	0.25	160.0
	170	4.53	0.73	160.0	171	4.35	0.70	160.0	172	1.54	0.25	160.0
	173	4.64	0.74	160.0	174	4.67	0.75	160.0				
59	37	3.44	1.82	530.0	38	3.43	1.82	530.0	39	3.33	1.76	530.0
	40	3.32	1.76	530.0	41	3.09	1.64	530.0	42	3.08	1.63	530.0
	43	2.81	1.49	530.0	44	2.81	1.49	530.0	45	2.53	1.34	530.0
	46	2.52	1.34	530.0	47	2.53	1.34	530.0	48	2.21	1.17	530.0
	49	2.21	1.17	530.0	50	2.22	1.18	530.0	51	2.10	1.11	530.0
	52	2.10	1.11	530.0	53	0.89	0.50	560.0	54	1.03	0.58	560.0
	55	1.19	0.66	560.0	56	1.24	0.70	560.0	57	1.26	0.71	560.0
	58	1.27	0.71	560.0	59	1.41	1.31	930.0	121	1.71	2.29	1340.0
	122	2.09	2.80	1340.0	123	2.22	2.97	1340.0	124	2.35	3.15	1340.0
	125	2.49	3.34	1340.0	126	0.96	0.35	370.0	127	1.07	0.39	370.0
	128	1.16	0.43	370.0	129	1.19	0.44	370.0	130	1.21	0.45	370.0
	131	1.24	0.46	370.0	132	2.44	1.00	410.0	133	2.34	0.96	410.0
	134	2.10	0.86	410.0	135	2.63	1.08	410.0	136	2.49	1.02	410.0
	137	2.28	0.94	410.0	138	2.14	0.88	410.0	139	2.65	1.09	410.0
	140	2.37	0.97	410.0	141	2.71	1.11	410.0	142	2.44	1.00	410.0
	143	3.42	1.40	410.0	144	3.17	1.30	410.0	145	3.68	1.51	410.0
	146	3.42	1.40	410.0	147	3.98	1.63	410.0	148	3.71	1.52	410.0
	149	4.33	1.78	410.0	150	4.02	1.65	410.0	151	3.99	0.64	160.0
	152	3.80	0.61	160.0	153	3.25	0.52	160.0	154	4.29	0.69	160.0
	155	4.14	0.66	160.0	156	3.59	0.57	160.0	157	2.28	0.37	160.0
	158	3.89	0.62	160.0	159	3.68	0.59	160.0	160	2.53	0.40	160.0
	161	3.91	0.63	160.0	162	3.73	0.60	160.0	163	3.08	0.49	160.0
	164	4.93	0.79	160.0	165	4.94	0.79	160.0	166	3.27	0.52	160.0
	167	5.29	0.85	160.0	168	5.36	0.86	160.0	169	3.49	0.56	160.0
	170	5.73	0.92	160.0	171	5.86	0.94	160.0	172	3.72	0.59	160.0
	173	6.11	0.98	160.0	174	6.33	1.01	160.0				
....												
	173	5.30	0.85	160.0	174	4.86	0.78	160.0				

	1000 etaT/h
Max	7.04

2.10 FONDAZIONE

La platea di fondazione, in comune con le vasche, ha spessore 70 cm ed è collocata a livello del pavimento piano terreno (estradosso +3,50 m).

2.10.1 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 sotto riportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

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

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

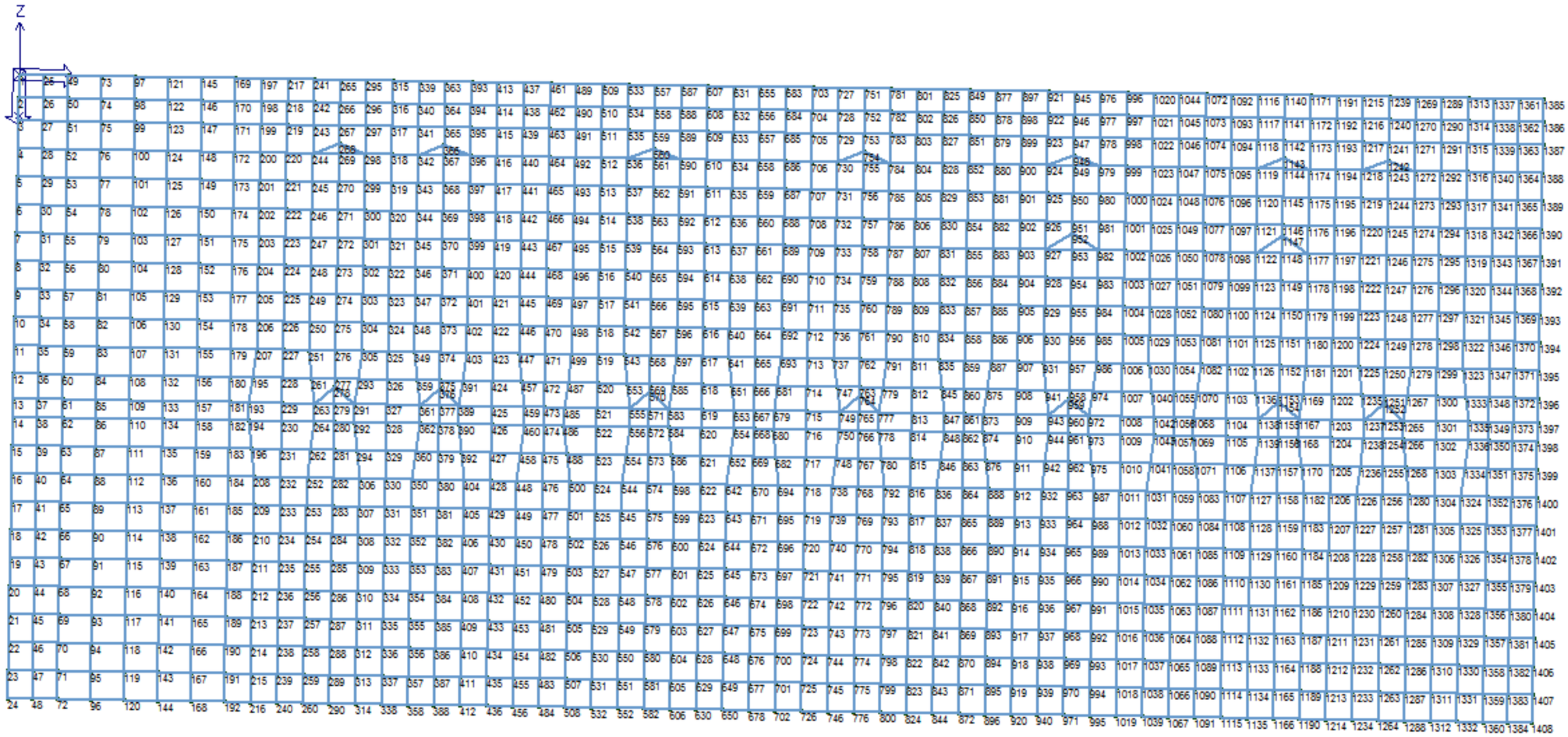
Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito,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

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	0.0	0.0	0.0	2	75.0	0.0	0.0	3	150.0	0.0	0.0
4	242.5	0.0	0.0	5	335.0	0.0	0.0	6	427.5	0.0	0.0
7	520.0	0.0	0.0	8	612.5	0.0	0.0	9	705.0	0.0	0.0
10	797.5	0.0	0.0	11	890.0	0.0	0.0	12	982.5	0.0	0.0
13	1065.0	0.0	0.0	14	1125.0	0.0	0.0	15	1217.5	0.0	0.0
16	1310.0	0.0	0.0	17	1402.5	0.0	0.0	18	1495.0	0.0	0.0
19	1587.5	0.0	0.0	20	1680.0	0.0	0.0	21	1772.5	0.0	0.0
22	1865.0	0.0	0.0	23	1957.5	0.0	0.0	24	2050.0	0.0	0.0
25	0.0	75.0	0.0	26	75.0	75.0	0.0	27	150.0	75.0	0.0
28	242.5	75.0	0.0	29	335.0	75.0	0.0	30	427.5	75.0	0.0
31	520.0	75.0	0.0	32	612.5	75.0	0.0	33	705.0	75.0	0.0
34	797.5	75.0	0.0	35	890.0	75.0	0.0	36	982.5	75.0	0.0
37	1065.0	75.0	0.0	38	1125.0	75.0	0.0	39	1217.5	75.0	0.0
40	1310.0	75.0	0.0	41	1402.5	75.0	0.0	42	1495.0	75.0	0.0
43	1587.5	75.0	0.0	44	1680.0	75.0	0.0	45	1772.5	75.0	0.0
46	1865.0	75.0	0.0	47	1957.5	75.0	0.0	48	2050.0	75.0	0.0
49	0.0	150.0	0.0	50	75.0	150.0	0.0	51	150.0	150.0	0.0
52	242.5	150.0	0.0	53	335.0	150.0	0.0	54	427.5	150.0	0.0
55	520.0	150.0	0.0	56	612.5	150.0	0.0	57	705.0	150.0	0.0
58	797.5	150.0	0.0	59	890.0	150.0	0.0	60	982.5	150.0	0.0
61	1065.0	150.0	0.0	62	1125.0	150.0	0.0	63	1217.5	150.0	0.0
64	1310.0	150.0	0.0	65	1402.5	150.0	0.0	66	1495.0	150.0	0.0
67	1587.5	150.0	0.0	68	1680.0	150.0	0.0	69	1772.5	150.0	0.0
70	1865.0	150.0	0.0	71	1957.5	150.0	0.0	72	2050.0	150.0	0.0
73	0.0	252.0	0.0	74	75.0	252.0	0.0	75	150.0	252.0	0.0
76	242.5	252.0	0.0	77	335.0	252.0	0.0	78	427.5	252.0	0.0
79	520.0	252.0	0.0	80	612.5	252.0	0.0	81	705.0	252.0	0.0
82	797.5	252.0	0.0	83	890.0	252.0	0.0	84	982.5	252.0	0.0
85	1065.0	252.0	0.0	86	1125.0	252.0	0.0	87	1217.5	252.0	0.0
88	1310.0	252.0	0.0	89	1402.5	252.0	0.0	90	1495.0	252.0	0.0
91	1587.5	252.0	0.0	92	1680.0	252.0	0.0	93	1772.5	252.0	0.0
94	1865.0	252.0	0.0	95	1957.5	252.0	0.0	96	2050.0	252.0	0.0
97	0.0	354.0	0.0	98	75.0	354.0	0.0	99	150.0	354.0	0.0
100	242.5	354.0	0.0	101	335.0	354.0	0.0	102	427.5	354.0	0.0
103	520.0	354.0	0.0	104	612.5	354.0	0.0	105	705.0	354.0	0.0
106	797.5	354.0	0.0	107	890.0	354.0	0.0	108	982.5	354.0	0.0
109	1065.0	354.0	0.0	110	1125.0	354.0	0.0	111	1217.5	354.0	0.0
112	1310.0	354.0	0.0	113	1402.5	354.0	0.0	114	1495.0	354.0	0.0
115	1587.5	354.0	0.0	116	1680.0	354.0	0.0	117	1772.5	354.0	0.0
118	1865.0	354.0	0.0	119	1957.5	354.0	0.0	120	2050.0	354.0	0.0
121	0.0	456.0	0.0	122	75.0	456.0	0.0	123	150.0	456.0	0.0
124	242.5	456.0	0.0	125	335.0	456.0	0.0	126	427.5	456.0	0.0
127	520.0	456.0	0.0	128	612.5	456.0	0.0	129	705.0	456.0	0.0
130	797.5	456.0	0.0	131	890.0	456.0	0.0	132	982.5	456.0	0.0
133	1065.0	456.0	0.0	134	1125.0	456.0	0.0	135	1217.5	456.0	0.0
136	1310.0	456.0	0.0	137	1402.5	456.0	0.0	138	1495.0	456.0	0.0
139	1587.5	456.0	0.0	140	1680.0	456.0	0.0	141	1772.5	456.0	0.0
142	1865.0	456.0	0.0	143	1957.5	456.0	0.0	144	2050.0	456.0	0.0
145	0.0	558.0	0.0	146	75.0	558.0	0.0	147	150.0	558.0	0.0
148	242.5	558.0	0.0	149	335.0	558.0	0.0	150	427.5	558.0	0.0
151	520.0	558.0	0.0	152	612.5	558.0	0.0	153	705.0	558.0	0.0
154	797.5	558.0	0.0	155	890.0	558.0	0.0	156	982.5	558.0	0.0
157	1065.0	558.0	0.0	158	1125.0	558.0	0.0	159	1217.5	558.0	0.0
160	1310.0	558.0	0.0	161	1402.5	558.0	0.0	162	1495.0	558.0	0.0
163	1587.5	558.0	0.0	164	1680.0	558.0	0.0	165	1772.5	558.0	0.0
166	1865.0	558.0	0.0	167	1957.5	558.0	0.0	168	2050.0	558.0	0.0
169	0.0	660.0	0.0	170	75.0	660.0	0.0	171	150.0	660.0	0.0
172	242.5	660.0	0.0	173	335.0	660.0	0.0	174	427.5	660.0	0.0
175	520.0	660.0	0.0	176	612.5	660.0	0.0	177	705.0	660.0	0.0
178	797.5	660.0	0.0	179	890.0	660.0	0.0	180	982.5	660.0	0.0
181	1065.0	660.0	0.0	182	1125.0	660.0	0.0	183	1217.5	660.0	0.0
184	1310.0	660.0	0.0	185	1402.5	660.0	0.0	186	1495.0	660.0	0.0
187	1587.5	660.0	0.0	188	1680.0	660.0	0.0	189	1772.5	660.0	0.0
190	1865.0	660.0	0.0	191	1957.5	660.0	0.0	192	2050.0	660.0	0.0
193	1065.0	720.0	0.0	194	1125.0	720.0	0.0	195	982.5	730.0	0.0
196	1217.5	730.0	0.0	197	0.0	740.0	0.0	198	75.0	740.0	0.0
199	150.0	740.0	0.0	200	242.5	740.0	0.0	201	335.0	740.0	0.0
202	427.5	740.0	0.0	203	520.0	740.0	0.0	204	612.5	740.0	0.0
205	705.0	740.0	0.0	206	797.5	740.0	0.0	207	890.0	740.0	0.0
208	1310.0	740.0	0.0	209	1402.5	740.0	0.0	210	1495.0	740.0	0.0
211	1587.5	740.0	0.0	212	1680.0	740.0	0.0	213	1772.5	740.0	0.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
214	1865.0	740.0	0.0	215	1957.5	740.0	0.0	216	2050.0	740.0	0.0
217	0.0	820.0	0.0	218	75.0	820.0	0.0	219	150.0	820.0	0.0
220	242.5	820.0	0.0	221	335.0	820.0	0.0	222	427.5	820.0	0.0
223	520.0	820.0	0.0	224	612.5	820.0	0.0	225	705.0	820.0	0.0
226	797.5	820.0	0.0	227	890.0	820.0	0.0	228	982.5	820.0	0.0
229	1065.0	820.0	0.0	230	1125.0	820.0	0.0	231	1217.5	820.0	0.0
232	1310.0	820.0	0.0	233	1402.5	820.0	0.0	234	1495.0	820.0	0.0
235	1587.5	820.0	0.0	236	1680.0	820.0	0.0	237	1772.5	820.0	0.0
238	1865.0	820.0	0.0	239	1957.5	820.0	0.0	240	2050.0	820.0	0.0
241	0.0	900.0	0.0	242	75.0	900.0	0.0	243	150.0	900.0	0.0
244	242.5	900.0	0.0	245	335.0	900.0	0.0	246	427.5	900.0	0.0
247	520.0	900.0	0.0	248	612.5	900.0	0.0	249	705.0	900.0	0.0
250	797.5	900.0	0.0	251	890.0	900.0	0.0	252	1310.0	900.0	0.0
253	1402.5	900.0	0.0	254	1495.0	900.0	0.0	255	1587.5	900.0	0.0
256	1680.0	900.0	0.0	257	1772.5	900.0	0.0	258	1865.0	900.0	0.0
259	1957.5	900.0	0.0	260	2050.0	900.0	0.0	261	982.5	910.0	0.0
262	1217.5	910.0	0.0	263	1065.0	920.0	0.0	264	1125.0	920.0	0.0
265	0.0	980.0	0.0	266	75.0	980.0	0.0	267	150.0	980.0	0.0
268	207.5	980.0	0.0	269	242.5	980.0	0.0	270	335.0	980.0	0.0
271	427.5	980.0	0.0	272	520.0	980.0	0.0	273	612.5	980.0	0.0
274	705.0	980.0	0.0	275	797.5	980.0	0.0	276	890.0	980.0	0.0
277	982.5	980.0	0.0	278	1007.5	980.0	0.0	279	1065.0	980.0	0.0
280	1125.0	980.0	0.0	281	1217.5	980.0	0.0	282	1310.0	980.0	0.0
283	1402.5	980.0	0.0	284	1495.0	980.0	0.0	285	1587.5	980.0	0.0
286	1680.0	980.0	0.0	287	1772.5	980.0	0.0	288	1865.0	980.0	0.0
289	1957.5	980.0	0.0	290	2050.0	980.0	0.0	291	1065.0	1040.0	0.0
292	1125.0	1040.0	0.0	293	982.5	1050.0	0.0	294	1217.5	1050.0	0.0
295	0.0	1060.0	0.0	296	75.0	1060.0	0.0	297	150.0	1060.0	0.0
298	242.5	1060.0	0.0	299	335.0	1060.0	0.0	300	427.5	1060.0	0.0
301	520.0	1060.0	0.0	302	612.5	1060.0	0.0	303	705.0	1060.0	0.0
304	797.5	1060.0	0.0	305	890.0	1060.0	0.0	306	1310.0	1060.0	0.0
307	1402.5	1060.0	0.0	308	1495.0	1060.0	0.0	309	1587.5	1060.0	0.0
310	1680.0	1060.0	0.0	311	1772.5	1060.0	0.0	312	1865.0	1060.0	0.0
313	1957.5	1060.0	0.0	314	2050.0	1060.0	0.0	315	0.0	1140.0	0.0
316	75.0	1140.0	0.0	317	150.0	1140.0	0.0	318	242.5	1140.0	0.0
319	335.0	1140.0	0.0	320	427.5	1140.0	0.0	321	520.0	1140.0	0.0
322	612.5	1140.0	0.0	323	705.0	1140.0	0.0	324	797.5	1140.0	0.0
325	890.0	1140.0	0.0	326	982.5	1140.0	0.0	327	1065.0	1140.0	0.0
328	1125.0	1140.0	0.0	329	1217.5	1140.0	0.0	330	1310.0	1140.0	0.0
331	1402.5	1140.0	0.0	332	1495.0	1140.0	0.0	333	1587.5	1140.0	0.0
334	1680.0	1140.0	0.0	335	1772.5	1140.0	0.0	336	1865.0	1140.0	0.0
337	1957.5	1140.0	0.0	338	2050.0	1140.0	0.0	339	0.0	1220.0	0.0
340	75.0	1220.0	0.0	341	150.0	1220.0	0.0	342	242.5	1220.0	0.0
343	335.0	1220.0	0.0	344	427.5	1220.0	0.0	345	520.0	1220.0	0.0
346	612.5	1220.0	0.0	347	705.0	1220.0	0.0	348	797.5	1220.0	0.0
349	890.0	1220.0	0.0	350	1310.0	1220.0	0.0	351	1402.5	1220.0	0.0
352	1495.0	1220.0	0.0	353	1587.5	1220.0	0.0	354	1680.0	1220.0	0.0
355	1772.5	1220.0	0.0	356	1865.0	1220.0	0.0	357	1957.5	1220.0	0.0
358	2050.0	1220.0	0.0	359	982.5	1230.0	0.0	360	1217.5	1230.0	0.0
361	1065.0	1240.0	0.0	362	1125.0	1240.0	0.0	363	0.0	1300.0	0.0
364	75.0	1300.0	0.0	365	150.0	1300.0	0.0	366	207.5	1300.0	0.0
367	242.5	1300.0	0.0	368	335.0	1300.0	0.0	369	427.5	1300.0	0.0
370	520.0	1300.0	0.0	371	612.5	1300.0	0.0	372	705.0	1300.0	0.0
373	797.5	1300.0	0.0	374	890.0	1300.0	0.0	375	982.5	1300.0	0.0
376	1007.5	1300.0	0.0	377	1065.0	1300.0	0.0	378	1125.0	1300.0	0.0
379	1217.5	1300.0	0.0	380	1310.0	1300.0	0.0	381	1402.5	1300.0	0.0
382	1495.0	1300.0	0.0	383	1587.5	1300.0	0.0	384	1680.0	1300.0	0.0
385	1772.5	1300.0	0.0	386	1865.0	1300.0	0.0	387	1957.5	1300.0	0.0
388	2050.0	1300.0	0.0	389	1065.0	1360.0	0.0	390	1125.0	1360.0	0.0
391	982.5	1370.0	0.0	392	1217.5	1370.0	0.0	393	0.0	1380.0	0.0
394	75.0	1380.0	0.0	395	150.0	1380.0	0.0	396	242.5	1380.0	0.0
397	335.0	1380.0	0.0	398	427.5	1380.0	0.0	399	520.0	1380.0	0.0
400	612.5	1380.0	0.0	401	705.0	1380.0	0.0	402	797.5	1380.0	0.0
403	890.0	1380.0	0.0	404	1310.0	1380.0	0.0	405	1402.5	1380.0	0.0
406	1495.0	1380.0	0.0	407	1587.5	1380.0	0.0	408	1680.0	1380.0	0.0
409	1772.5	1380.0	0.0	410	1865.0	1380.0	0.0	411	1957.5	1380.0	0.0
412	2050.0	1380.0	0.0	413	0.0	1460.0	0.0	414	75.0	1460.0	0.0
415	150.0	1460.0	0.0	416	242.5	1460.0	0.0	417	335.0	1460.0	0.0
418	427.5	1460.0	0.0	419	520.0	1460.0	0.0	420	612.5	1460.0	0.0
…											
1405	1772.5	4650.0	0.0	1406	1865.0	4650.0	0.0	1407	1957.5	4650.0	0.0
1408	2050.0	4650.0	0.0								

Numerazione nodi



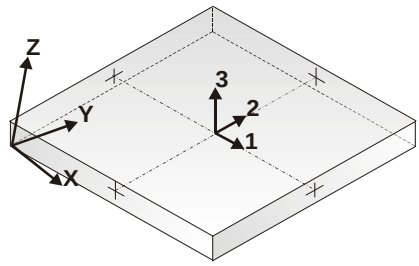
2.10.2 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

LEGENDA TABELLA DATI SHELL

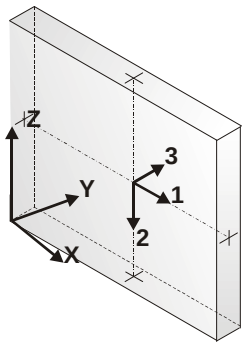
Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.

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.



orientamento elementi 3D non verticali



orientamento elementi 3D verticali

In particolare per ogni elemento viene indicato in tabella:

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

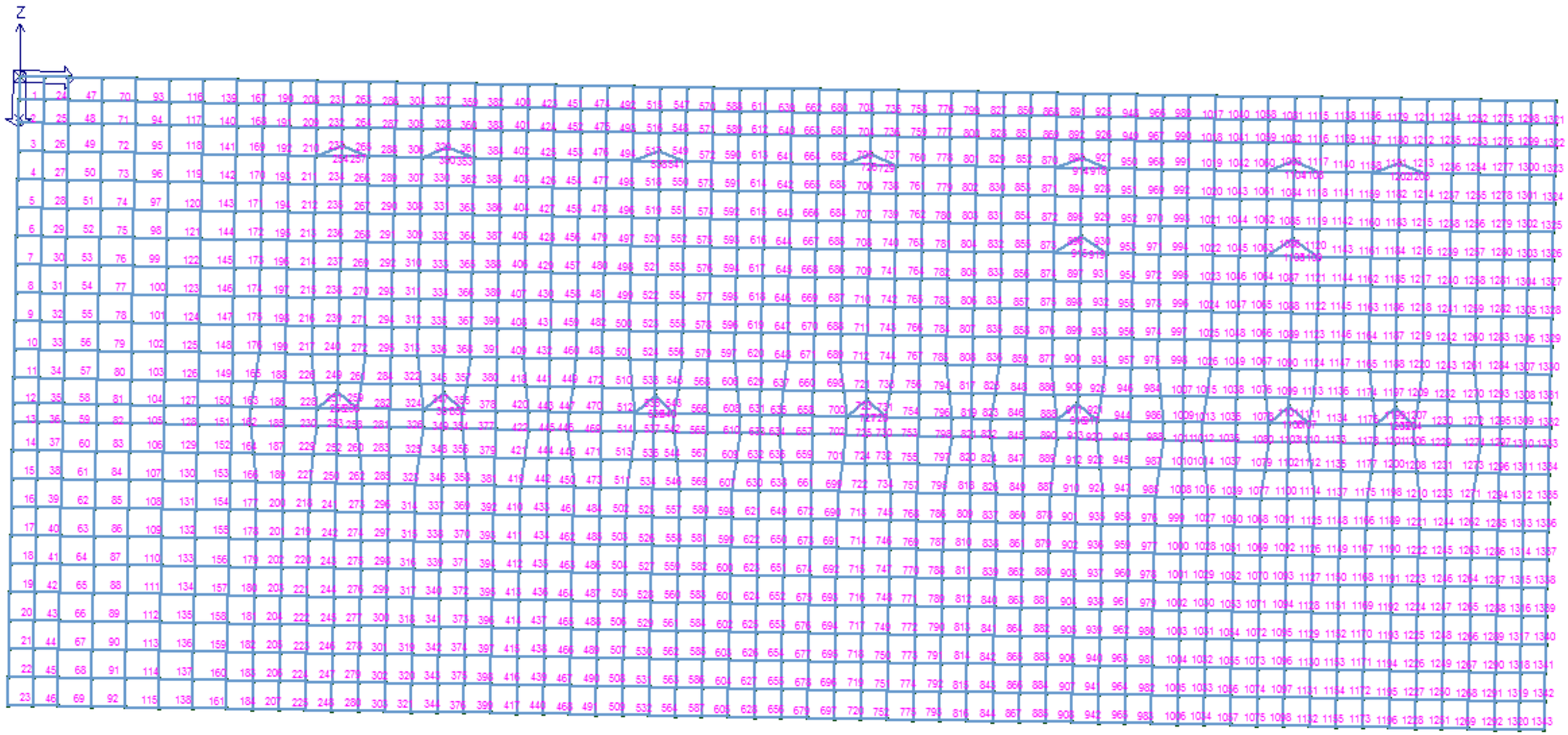
TABELLA DATI SHELL

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
1	Guscio fond.	1	2	26	25	4	70.0	1.00	1.00
2	Guscio fond.	2	3	27	26	4	70.0	1.00	1.00
3	Guscio fond.	3	4	28	27	4	70.0	1.00	1.00
4	Guscio fond.	4	5	29	28	4	70.0	1.00	1.00
5	Guscio fond.	5	6	30	29	4	70.0	1.00	1.00
6	Guscio fond.	6	7	31	30	4	70.0	1.00	1.00
7	Guscio fond.	7	8	32	31	4	70.0	1.00	1.00
8	Guscio fond.	8	9	33	32	4	70.0	1.00	1.00
9	Guscio fond.	9	10	34	33	4	70.0	1.00	1.00
10	Guscio fond.	10	11	35	34	4	70.0	1.00	1.00
11	Guscio fond.	11	12	36	35	4	70.0	1.00	1.00
12	Guscio fond.	12	13	37	36	4	70.0	1.00	1.00
13	Guscio fond.	13	14	38	37	4	70.0	1.00	1.00
14	Guscio fond.	14	15	39	38	4	70.0	1.00	1.00
15	Guscio fond.	15	16	40	39	4	70.0	1.00	1.00
16	Guscio fond.	16	17	41	40	4	70.0	1.00	1.00
17	Guscio fond.	17	18	42	41	4	70.0	1.00	1.00
18	Guscio fond.	18	19	43	42	4	70.0	1.00	1.00
19	Guscio fond.	19	20	44	43	4	70.0	1.00	1.00
20	Guscio fond.	20	21	45	44	4	70.0	1.00	1.00
21	Guscio fond.	21	22	46	45	4	70.0	1.00	1.00
22	Guscio fond.	22	23	47	46	4	70.0	1.00	1.00
23	Guscio fond.	23	24	48	47	4	70.0	1.00	1.00
24	Guscio fond.	25	26	50	49	4	70.0	1.00	1.00
25	Guscio fond.	26	27	51	50	4	70.0	1.00	1.00
26	Guscio fond.	27	28	52	51	4	70.0	1.00	1.00
27	Guscio fond.	28	29	53	52	4	70.0	1.00	1.00
28	Guscio fond.	29	30	54	53	4	70.0	1.00	1.00
29	Guscio fond.	30	31	55	54	4	70.0	1.00	1.00
30	Guscio fond.	31	32	56	55	4	70.0	1.00	1.00
31	Guscio fond.	32	33	57	56	4	70.0	1.00	1.00
32	Guscio fond.	33	34	58	57	4	70.0	1.00	1.00
33	Guscio fond.	34	35	59	58	4	70.0	1.00	1.00
34	Guscio fond.	35	36	60	59	4	70.0	1.00	1.00
35	Guscio fond.	36	37	61	60	4	70.0	1.00	1.00
36	Guscio fond.	37	38	62	61	4	70.0	1.00	1.00
37	Guscio fond.	38	39	63	62	4	70.0	1.00	1.00
38	Guscio fond.	39	40	64	63	4	70.0	1.00	1.00
39	Guscio fond.	40	41	65	64	4	70.0	1.00	1.00
40	Guscio fond.	41	42	66	65	4	70.0	1.00	1.00
41	Guscio fond.	42	43	67	66	4	70.0	1.00	1.00
42	Guscio fond.	43	44	68	67	4	70.0	1.00	1.00
43	Guscio fond.	44	45	69	68	4	70.0	1.00	1.00
44	Guscio fond.	45	46	70	69	4	70.0	1.00	1.00
45	Guscio fond.	46	47	71	70	4	70.0	1.00	1.00
46	Guscio fond.	47	48	72	71	4	70.0	1.00	1.00
47	Guscio fond.	49	50	74	73	4	70.0	1.00	1.00
48	Guscio fond.	50	51	75	74	4	70.0	1.00	1.00
49	Guscio fond.	51	52	76	75	4	70.0	1.00	1.00
50	Guscio fond.	52	53	77	76	4	70.0	1.00	1.00
51	Guscio fond.	53	54	78	77	4	70.0	1.00	1.00
52	Guscio fond.	54	55	79	78	4	70.0	1.00	1.00
53	Guscio fond.	55	56	80	79	4	70.0	1.00	1.00
54	Guscio fond.	56	57	81	80	4	70.0	1.00	1.00
55	Guscio fond.	57	58	82	81	4	70.0	1.00	1.00
56	Guscio fond.	58	59	83	82	4	70.0	1.00	1.00
57	Guscio fond.	59	60	84	83	4	70.0	1.00	1.00
58	Guscio fond.	60	61	85	84	4	70.0	1.00	1.00
59	Guscio fond.	61	62	86	85	4	70.0	1.00	1.00
60	Guscio fond.	62	63	87	86	4	70.0	1.00	1.00
61	Guscio fond.	63	64	88	87	4	70.0	1.00	1.00
62	Guscio fond.	64	65	89	88	4	70.0	1.00	1.00
63	Guscio fond.	65	66	90	89	4	70.0	1.00	1.00
64	Guscio fond.	66	67	91	90	4	70.0	1.00	1.00
65	Guscio fond.	67	68	92	91	4	70.0	1.00	1.00
66	Guscio fond.	68	69	93	92	4	70.0	1.00	1.00
67	Guscio fond.	69	70	94	93	4	70.0	1.00	1.00
68	Guscio fond.	70	71	95	94	4	70.0	1.00	1.00
69	Guscio fond.	71	72	96	95	4	70.0	1.00	1.00
70	Guscio fond.	73	74	98	97	4	70.0	1.00	1.00
71	Guscio fond.	74	75	99	98	4	70.0	1.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
72	Guscio fond.	75	76	100	99	4	70.0	1.00	1.00
73	Guscio fond.	76	77	101	100	4	70.0	1.00	1.00
74	Guscio fond.	77	78	102	101	4	70.0	1.00	1.00
75	Guscio fond.	78	79	103	102	4	70.0	1.00	1.00
76	Guscio fond.	79	80	104	103	4	70.0	1.00	1.00
77	Guscio fond.	80	81	105	104	4	70.0	1.00	1.00
78	Guscio fond.	81	82	106	105	4	70.0	1.00	1.00
79	Guscio fond.	82	83	107	106	4	70.0	1.00	1.00
80	Guscio fond.	83	84	108	107	4	70.0	1.00	1.00
81	Guscio fond.	84	85	109	108	4	70.0	1.00	1.00
82	Guscio fond.	85	86	110	109	4	70.0	1.00	1.00
83	Guscio fond.	86	87	111	110	4	70.0	1.00	1.00
84	Guscio fond.	87	88	112	111	4	70.0	1.00	1.00
85	Guscio fond.	88	89	113	112	4	70.0	1.00	1.00
86	Guscio fond.	89	90	114	113	4	70.0	1.00	1.00
87	Guscio fond.	90	91	115	114	4	70.0	1.00	1.00
88	Guscio fond.	91	92	116	115	4	70.0	1.00	1.00
89	Guscio fond.	92	93	117	116	4	70.0	1.00	1.00
90	Guscio fond.	93	94	118	117	4	70.0	1.00	1.00
91	Guscio fond.	94	95	119	118	4	70.0	1.00	1.00
92	Guscio fond.	95	96	120	119	4	70.0	1.00	1.00
93	Guscio fond.	97	98	122	121	4	70.0	1.00	1.00
94	Guscio fond.	98	99	123	122	4	70.0	1.00	1.00
95	Guscio fond.	99	100	124	123	4	70.0	1.00	1.00
96	Guscio fond.	100	101	125	124	4	70.0	1.00	1.00
97	Guscio fond.	101	102	126	125	4	70.0	1.00	1.00
98	Guscio fond.	102	103	127	126	4	70.0	1.00	1.00
99	Guscio fond.	103	104	128	127	4	70.0	1.00	1.00
100	Guscio fond.	104	105	129	128	4	70.0	1.00	1.00
101	Guscio fond.	105	106	130	129	4	70.0	1.00	1.00
102	Guscio fond.	106	107	131	130	4	70.0	1.00	1.00
103	Guscio fond.	107	108	132	131	4	70.0	1.00	1.00
104	Guscio fond.	108	109	133	132	4	70.0	1.00	1.00
105	Guscio fond.	109	110	134	133	4	70.0	1.00	1.00
106	Guscio fond.	110	111	135	134	4	70.0	1.00	1.00
107	Guscio fond.	111	112	136	135	4	70.0	1.00	1.00
108	Guscio fond.	112	113	137	136	4	70.0	1.00	1.00
109	Guscio fond.	113	114	138	137	4	70.0	1.00	1.00
110	Guscio fond.	114	115	139	138	4	70.0	1.00	1.00
111	Guscio fond.	115	116	140	139	4	70.0	1.00	1.00
112	Guscio fond.	116	117	141	140	4	70.0	1.00	1.00
113	Guscio fond.	117	118	142	141	4	70.0	1.00	1.00
114	Guscio fond.	118	119	143	142	4	70.0	1.00	1.00
115	Guscio fond.	119	120	144	143	4	70.0	1.00	1.00
116	Guscio fond.	121	122	146	145	4	70.0	1.00	1.00
117	Guscio fond.	122	123	147	146	4	70.0	1.00	1.00
118	Guscio fond.	123	124	148	147	4	70.0	1.00	1.00
119	Guscio fond.	124	125	149	148	4	70.0	1.00	1.00
120	Guscio fond.	125	126	150	149	4	70.0	1.00	1.00
121	Guscio fond.	126	127	151	150	4	70.0	1.00	1.00
122	Guscio fond.	127	128	152	151	4	70.0	1.00	1.00
123	Guscio fond.	128	129	153	152	4	70.0	1.00	1.00
124	Guscio fond.	129	130	154	153	4	70.0	1.00	1.00
125	Guscio fond.	130	131	155	154	4	70.0	1.00	1.00
126	Guscio fond.	131	132	156	155	4	70.0	1.00	1.00
127	Guscio fond.	132	133	157	156	4	70.0	1.00	1.00
128	Guscio fond.	133	134	158	157	4	70.0	1.00	1.00
129	Guscio fond.	134	135	159	158	4	70.0	1.00	1.00
130	Guscio fond.	135	136	160	159	4	70.0	1.00	1.00
131	Guscio fond.	136	137	161	160	4	70.0	1.00	1.00
132	Guscio fond.	137	138	162	161	4	70.0	1.00	1.00
133	Guscio fond.	138	139	163	162	4	70.0	1.00	1.00
134	Guscio fond.	139	140	164	163	4	70.0	1.00	1.00
135	Guscio fond.	140	141	165	164	4	70.0	1.00	1.00
136	Guscio fond.	141	142	166	165	4	70.0	1.00	1.00
137	Guscio fond.	142	143	167	166	4	70.0	1.00	1.00
138	Guscio fond.	143	144	168	167	4	70.0	1.00	1.00
139	Guscio fond.	145	146	170	169	4	70.0	1.00	1.00
140	Guscio fond.	146	147	171	170	4	70.0	1.00	1.00
141	Guscio fond.	147	148	172	171	4	70.0	1.00	1.00
142	Guscio fond.	148	149	173	172	4	70.0	1.00	1.00
143	Guscio fond.	149	150	174	173	4	70.0	1.00	1.00
144	Guscio fond.	150	151	175	174	4	70.0	1.00	1.00
145	Guscio fond.	151	152	176	175	4	70.0	1.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
146	Guscio fond.	152	153	177	176	4	70.0	1.00	1.00
147	Guscio fond.	153	154	178	177	4	70.0	1.00	1.00
148	Guscio fond.	154	155	179	178	4	70.0	1.00	1.00
149	Guscio fond.	155	156	180	179	4	70.0	1.00	1.00
150	Guscio fond.	156	157	181	180	4	70.0	1.00	1.00
151	Guscio fond.	157	158	182	181	4	70.0	1.00	1.00
152	Guscio fond.	158	159	183	182	4	70.0	1.00	1.00
153	Guscio fond.	159	160	184	183	4	70.0	1.00	1.00
154	Guscio fond.	160	161	185	184	4	70.0	1.00	1.00
155	Guscio fond.	161	162	186	185	4	70.0	1.00	1.00
156	Guscio fond.	162	163	187	186	4	70.0	1.00	1.00
157	Guscio fond.	163	164	188	187	4	70.0	1.00	1.00
158	Guscio fond.	164	165	189	188	4	70.0	1.00	1.00
159	Guscio fond.	165	166	190	189	4	70.0	1.00	1.00
160	Guscio fond.	166	167	191	190	4	70.0	1.00	1.00
161	Guscio fond.	167	168	192	191	4	70.0	1.00	1.00
162	Guscio fond.	181	182	194	193	4	70.0	1.00	1.00
163	Guscio fond.	180	181	193	195	4	70.0	1.00	1.00
164	Guscio fond.	182	183	196	194	4	70.0	1.00	1.00
165	Guscio fond.	179	180	195	207	4	70.0	1.00	1.00
166	Guscio fond.	183	184	208	196	4	70.0	1.00	1.00
167	Guscio fond.	169	170	198	197	4	70.0	1.00	1.00
168	Guscio fond.	170	171	199	198	4	70.0	1.00	1.00
169	Guscio fond.	171	172	200	199	4	70.0	1.00	1.00
170	Guscio fond.	172	173	201	200	4	70.0	1.00	1.00
171	Guscio fond.	173	174	202	201	4	70.0	1.00	1.00
172	Guscio fond.	174	175	203	202	4	70.0	1.00	1.00
173	Guscio fond.	175	176	204	203	4	70.0	1.00	1.00
174	Guscio fond.	176	177	205	204	4	70.0	1.00	1.00
175	Guscio fond.	177	178	206	205	4	70.0	1.00	1.00
176	Guscio fond.	178	179	207	206	4	70.0	1.00	1.00
177	Guscio fond.	184	185	209	208	4	70.0	1.00	1.00
178	Guscio fond.	185	186	210	209	4	70.0	1.00	1.00
179	Guscio fond.	186	187	211	210	4	70.0	1.00	1.00
180	Guscio fond.	187	188	212	211	4	70.0	1.00	1.00
181	Guscio fond.	188	189	213	212	4	70.0	1.00	1.00
182	Guscio fond.	189	190	214	213	4	70.0	1.00	1.00
183	Guscio fond.	190	191	215	214	4	70.0	1.00	1.00
184	Guscio fond.	191	192	216	215	4	70.0	1.00	1.00
185	Guscio fond.	193	194	230	229	4	70.0	1.00	1.00
186	Guscio fond.	195	193	229	228	4	70.0	1.00	1.00
187	Guscio fond.	194	196	231	230	4	70.0	1.00	1.00
188	Guscio fond.	207	195	228	227	4	70.0	1.00	1.00
189	Guscio fond.	196	208	232	231	4	70.0	1.00	1.00
190	Guscio fond.	197	198	218	217	4	70.0	1.00	1.00
191	Guscio fond.	198	199	219	218	4	70.0	1.00	1.00
192	Guscio fond.	199	200	220	219	4	70.0	1.00	1.00
193	Guscio fond.	200	201	221	220	4	70.0	1.00	1.00
194	Guscio fond.	201	202	222	221	4	70.0	1.00	1.00
195	Guscio fond.	202	203	223	222	4	70.0	1.00	1.00
196	Guscio fond.	203	204	224	223	4	70.0	1.00	1.00
…									
1343	Guscio fond.	1383	1384	1408	1407	4	70.0	1.00	1.00

Numerazione elementi fondazione



2.10.3 RISULTATI OPERE DI FONDAZIONE

LEGENDA RISULTATI OPERE DI FONDAZIONE

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

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

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

RISULTATI OPERE DI FONDAZIONE

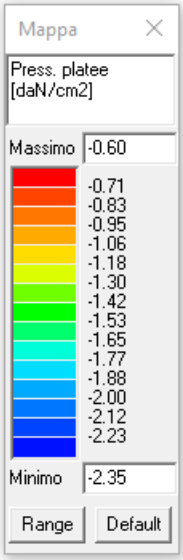
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
1	-0.52	-0.53	-0.58	-0.59	-0.53	-0.54	-0.59	-0.60	-0.36	-0.37	-0.41
	-0.43	-0.37	-0.38	-0.43	-0.68	-0.90	-0.44	-0.82	-0.99	-0.52	-0.91
	-0.24	-0.30	-1.04	-1.10	-0.23	-0.31	-1.03	-1.11	-0.30	-0.36	-0.98
	-1.04	-0.29	-0.37	-0.97	-1.05	-0.44	-0.65	-0.69	-0.89	-0.46	-0.67
	-0.67	-0.88	-0.42	-0.68	-0.66	-0.92	-0.44	-0.70	-0.64	-0.90	-0.40
	-0.44	-0.89	-0.94	-0.39	-0.44	-0.89	-0.94	-0.44	-0.48	-0.86	-0.89
	-0.44	-0.48	-0.85	-0.90	-0.53	-0.66	-0.68	-0.81	-0.54	-0.67	-0.67
	-0.79	-0.51	-0.67	-0.66	-0.82	-0.52	-0.69	-0.65	-0.81	-0.39	-0.40
	-0.43	-0.44	-0.40	-0.41	-0.44	-0.45	-0.69	-0.33	-0.63	-0.75	-0.39
	-0.68										
2	-0.55	-0.56	-0.61	-0.62	-0.56	-0.58	-0.63	-0.64	-0.38	-0.39	-0.44
	-0.45	-0.39	-0.41	-0.45	-0.72	-0.93	-0.49	-0.88	-1.02	-0.58	-0.97
	-0.31	-0.37	-1.06	-1.12	-0.30	-0.38	-1.05	-1.13	-0.36	-0.43	-1.00
	-1.06	-0.36	-0.44	-0.99	-1.07	-0.50	-0.71	-0.72	-0.93	-0.51	-0.73
	-0.70	-0.92	-0.47	-0.73	-0.70	-0.96	-0.49	-0.75	-0.68	-0.94	-0.46
	-0.50	-0.92	-0.96	-0.46	-0.50	-0.92	-0.97	-0.50	-0.54	-0.89	-0.93
	-0.49	-0.54	-0.88	-0.93	-0.58	-0.71	-0.72	-0.85	-0.59	-0.72	-0.71
	-0.84	-0.56	-0.72	-0.70	-0.86	-0.57	-0.74	-0.69	-0.85	-0.42	-0.42
	-0.46	-0.46	-0.43	-0.43	-0.47	-0.48	-0.71	-0.37	-0.67	-0.77	-0.43
	-0.73										
3	-0.58	-0.59	-0.64	-0.65	-0.60	-0.61	-0.66	-0.67	-0.40	-0.41	-0.46
	-0.47	-0.42	-0.43	-0.48	-0.77	-0.96	-0.55	-0.94	-1.05	-0.64	-1.03
	-0.38	-0.44	-1.07	-1.14	-0.37	-0.45	-1.07	-1.15	-0.43	-0.50	-1.02
	-1.09	-0.42	-0.50	-1.01	-1.09	-0.55	-0.77	-0.75	-0.98	-0.56	-0.78
	-0.74	-0.96	-0.52	-0.79	-0.73	-1.00	-0.54	-0.81	-0.72	-0.98	-0.52
	-0.56	-0.95	-0.99	-0.52	-0.57	-0.95	-1.00	-0.56	-0.60	-0.92	-0.96
	-0.55	-0.60	-0.92	-0.96	-0.63	-0.76	-0.76	-0.89	-0.64	-0.77	-0.75
	-0.88	-0.61	-0.77	-0.74	-0.90	-0.62	-0.78	-0.73	-0.89	-0.44	-0.45
	-0.48	-0.49	-0.45	-0.46	-0.49	-0.50	-0.74	-0.42	-0.71	-0.80	-0.48
	-0.77										
4	-0.62	-0.63	-0.68	-0.69	-0.63	-0.64	-0.70	-0.71	-0.43	-0.44	-0.49
	-0.50	-0.44	-0.46	-0.51	-0.82	-1.00	-0.62	-1.01	-1.09	-0.71	-1.10
	-0.47	-0.54	-1.09	-1.16	-0.46	-0.54	-1.08	-1.17	-0.51	-0.58	-1.05
	-1.12	-0.50	-0.59	-1.04	-1.12	-0.61	-0.84	-0.79	-1.03	-0.62	-0.85
	-0.78	-1.01	-0.59	-0.86	-0.77	-1.05	-0.60	-0.87	-0.76	-1.03	-0.60
	-0.64	-0.98	-1.03	-0.59	-0.64	-0.98	-1.03	-0.63	-0.67	-0.96	-1.00
	-0.62	-0.67	-0.95	-1.00	-0.69	-0.83	-0.80	-0.94	-0.69	-0.83	-0.79
	-0.93	-0.67	-0.84	-0.79	-0.95	-0.68	-0.85	-0.78	-0.94	-0.47	-0.48
	-0.51	-0.52	-0.48	-0.49	-0.52	-0.53	-0.76	-0.47	-0.77	-0.83	-0.53
	-0.83										
5	-0.65	-0.66	-0.72	-0.73	-0.67	-0.68	-0.74	-0.75	-0.45	-0.46	-0.52
	-0.53	-0.47	-0.48	-0.54	-0.87	-1.03	-0.69	-1.07	-1.13	-0.79	-1.17
	-0.55	-0.63	-1.10	-1.18	-0.55	-0.63	-1.10	-1.18	-0.59	-0.66	-1.07
	-1.14	-0.58	-0.67	-1.06	-1.15	-0.66	-0.91	-0.83	-1.08	-0.67	-0.93
	-0.82	-1.07	-0.65	-0.93	-0.81	-1.09	-0.66	-0.94	-0.80	-1.08	-0.67
	-0.72	-1.01	-1.06	-0.67	-0.72	-1.01	-1.06	-0.69	-0.74	-0.99	-1.04
	-0.69	-0.74	-0.99	-1.04	-0.74	-0.89	-0.84	-0.99	-0.75	-0.90	-0.84
	-0.99	-0.73	-0.90	-0.83	-1.00	-0.74	-0.91	-0.83	-0.99	-0.49	-0.50
	-0.54	-0.55	-0.51	-0.51	-0.55	-0.56	-0.79	-0.52	-0.82	-0.85	-0.59
	-0.88										

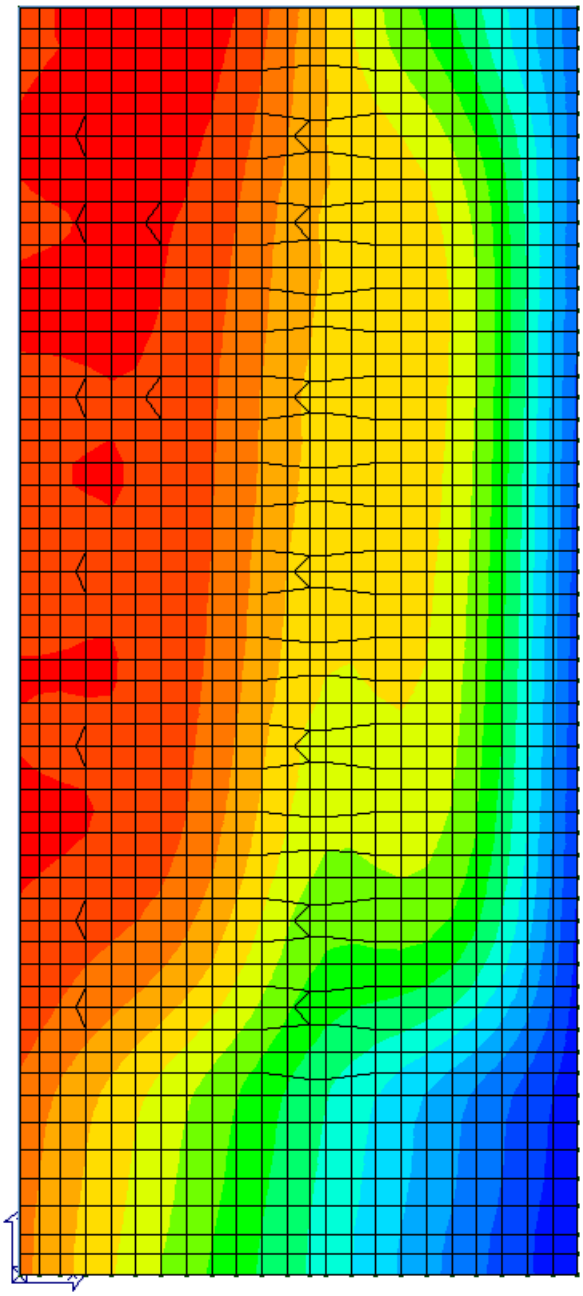
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
6	-0.69	-0.70	-0.75	-0.76	-0.71	-0.72	-0.77	-0.78	-0.48	-0.49	-0.55
	-0.56	-0.50	-0.51	-0.57	-0.92	-1.07	-0.76	-1.14	-1.16	-0.86	-1.24
	-0.64	-0.72	-1.12	-1.20	-0.64	-0.72	-1.11	-1.20	-0.66	-0.75	-1.09
	-1.17	-0.66	-0.75	-1.09	-1.17	-0.72	-0.99	-0.86	-1.13	-0.72	-1.00
	-0.85	-1.12	-0.71	-1.00	-0.85	-1.14	-0.71	-1.01	-0.84	-1.13	-0.74
	-0.79	-1.03	-1.09	-0.74	-0.79	-1.04	-1.09	-0.76	-0.81	-1.02	-1.07
	-0.76	-0.81	-1.02	-1.07	-0.79	-0.96	-0.88	-1.04	-0.80	-0.96	-0.88
	-1.04	-0.79	-0.96	-0.88	-1.05	-0.79	-0.97	-0.87	-1.05	-0.52	-0.53
	-0.57	-0.57	-0.53	-0.54	-0.58	-0.59	-0.81	-0.58	-0.87	-0.88	-0.64
	-0.93										
7	-0.72	-0.73	-0.79	-0.80	-0.74	-0.75	-0.81	-0.82	-0.50	-0.52	-0.57
	-0.58	-0.52	-0.54	-0.59	-0.97	-1.10	-0.83	-1.20	-1.20	-0.93	-1.30
	-0.72	-0.81	-1.13	-1.21	-0.72	-0.81	-1.12	-1.22	-0.74	-0.83	-1.11
	-1.20	-0.74	-0.83	-1.11	-1.20	-0.77	-1.06	-0.89	-1.18	-0.77	-1.07
	-0.88	-1.18	-0.76	-1.07	-0.88	-1.19	-0.77	-1.07	-0.88	-1.18	-0.82
	-0.87	-1.06	-1.12	-0.81	-0.87	-1.06	-1.12	-0.83	-0.88	-1.05	-1.11
	-0.83	-0.88	-1.05	-1.11	-0.85	-1.02	-0.92	-1.10	-0.85	-1.02	-0.92
	-1.09	-0.84	-1.02	-0.92	-1.10	-0.85	-1.03	-0.91	-1.09	-0.55	-0.56
	-0.59	-0.60	-0.56	-0.57	-0.61	-0.61	-0.84	-0.63	-0.92	-0.90	-0.70
	-0.98										
8	-0.75	-0.77	-0.82	-0.84	-0.78	-0.79	-0.85	-0.86	-0.53	-0.54	-0.60
	-0.61	-0.55	-0.56	-0.62	-1.02	-1.12	-0.89	-1.26	-1.23	-1.00	-1.37
	-0.80	-0.90	-1.13	-1.23	-0.80	-0.90	-1.13	-1.23	-0.81	-0.91	-1.13
	-1.22	-0.81	-0.91	-1.13	-1.22	-0.81	-1.14	-0.91	-1.24	-0.82	-1.14
	-0.91	-1.23	-0.81	-1.14	-0.91	-1.24	-0.82	-1.14	-0.91	-1.23	-0.88
	-0.94	-1.08	-1.15	-0.88	-0.94	-1.09	-1.15	-0.89	-0.95	-1.09	-1.14
	-0.89	-0.95	-1.09	-1.14	-0.89	-1.08	-0.95	-1.15	-0.89	-1.08	-0.95
	-1.14	-0.89	-1.08	-0.96	-1.14	-0.89	-1.08	-0.95	-1.14	-0.57	-0.58
	-0.62	-0.63	-0.59	-0.59	-0.63	-0.64	-0.86	-0.68	-0.96	-0.93	-0.75
	-1.03										
9	-0.79	-0.80	-0.86	-0.87	-0.81	-0.82	-0.88	-0.89	-0.55	-0.57	-0.63
	-0.64	-0.58	-0.59	-0.65	-1.07	-1.15	-0.96	-1.32	-1.25	-1.06	-1.43
	-0.88	-0.99	-1.14	-1.25	-0.88	-0.99	-1.14	-1.25	-0.88	-0.98	-1.14
	-1.25	-0.88	-0.98	-1.14	-1.25	-0.86	-1.21	-0.94	-1.29	-0.86	-1.21
	-0.94	-1.29	-0.86	-1.20	-0.94	-1.28	-0.86	-1.20	-0.94	-1.28	-0.95
	-1.01	-1.10	-1.17	-0.95	-1.01	-1.11	-1.17	-0.95	-1.01	-1.11	-1.18
	-0.95	-1.01	-1.11	-1.18	-0.94	-1.14	-0.99	-1.19	-0.94	-1.14	-0.99
	-1.19	-0.94	-1.14	-0.99	-1.19	-0.94	-1.14	-0.99	-1.19	-0.60	-0.61
	-0.65	-0.65	-0.61	-0.62	-0.66	-0.67	-0.88	-0.73	-1.01	-0.95	-0.80
	-1.08										
10	-0.82	-0.83	-0.89	-0.91	-0.84	-0.85	-0.92	-0.93	-0.58	-0.59	-0.65
	-0.66	-0.60	-0.61	-0.67	-1.12	-1.17	-1.03	-1.38	-1.28	-1.13	-1.49
	-0.96	-1.07	-1.15	-1.26	-0.96	-1.07	-1.15	-1.26	-0.94	-1.06	-1.16
	-1.27	-0.95	-1.06	-1.16	-1.27	-0.90	-1.28	-0.96	-1.33	-0.90	-1.27
	-0.96	-1.34	-0.90	-1.27	-0.96	-1.33	-0.90	-1.27	-0.97	-1.33	-1.01
	-1.08	-1.12	-1.20	-1.02	-1.08	-1.13	-1.20	-1.01	-1.07	-1.14	-1.21
	-1.01	-1.07	-1.14	-1.21	-0.98	-1.20	-1.02	-1.24	-0.98	-1.20	-1.02
	-1.24	-0.99	-1.20	-1.02	-1.24	-0.98	-1.20	-1.02	-1.24	-0.62	-0.63
	-0.67	-0.68	-0.64	-0.65	-0.69	-0.70	-0.90	-0.78	-1.05	-0.97	-0.85
	-1.13										
11	-0.85	-0.87	-0.93	-0.94	-0.88	-0.89	-0.95	-0.96	-0.60	-0.62	-0.68
	-0.69	-0.63	-0.64	-0.70	-1.16	-1.20	-1.09	-1.44	-1.30	-1.20	-1.54
	-1.03	-1.15	-1.16	-1.28	-1.03	-1.15	-1.16	-1.27	-1.00	-1.13	-1.18
	-1.30	-1.01	-1.12	-1.18	-1.30	-0.94	-1.34	-0.98	-1.38	-0.93	-1.33
	-0.98	-1.39	-0.95	-1.33	-0.98	-1.37	-0.94	-1.33	-0.99	-1.38	-1.07
	-1.15	-1.14	-1.23	-1.08	-1.14	-1.16	-1.23	-1.06	-1.13	-1.17	-1.24
	-1.06	-1.13	-1.17	-1.24	-1.02	-1.26	-1.05	-1.29	-1.02	-1.26	-1.05
	-1.29	-1.03	-1.26	-1.05	-1.28	-1.02	-1.25	-1.06	-1.28	-0.65	-0.66
	-0.70	-0.71	-0.67	-0.67	-0.72	-0.72	-0.91	-0.84	-1.10	-0.99	-0.91
	-1.17										
12	-0.89	-0.90	-0.96	-0.97	-0.91	-0.92	-0.99	-1.00	-0.63	-0.64	-0.70
	-0.72	-0.65	-0.66	-0.73	-1.20	-1.22	-1.16	-1.49	-1.33	-1.27	-1.60
	-1.09	-1.22	-1.17	-1.30	-1.09	-1.22	-1.17	-1.30	-1.06	-1.19	-1.20
	-1.33	-1.06	-1.19	-1.20	-1.33	-0.97	-1.41	-1.00	-1.43	-0.96	-1.40
	-1.01	-1.44	-0.98	-1.40	-1.01	-1.42	-0.97	-1.39	-1.02	-1.43	-1.13
	-1.21	-1.17	-1.26	-1.13	-1.21	-1.18	-1.26	-1.11	-1.19	-1.20	-1.28
	-1.11	-1.19	-1.20	-1.28	-1.06	-1.32	-1.08	-1.33	-1.06	-1.31	-1.08
	-1.34	-1.07	-1.31	-1.08	-1.33	-1.06	-1.31	-1.09	-1.33	-0.68	-0.68
	-0.73	-0.73	-0.69	-0.70	-0.74	-0.75	-0.93	-0.89	-1.14	-1.00	-0.96
	-1.21										

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
13	-0.92	-0.93	-0.99	-1.01	-0.94	-0.95	-1.02	-1.03	-0.65	-0.66	-0.73
	-0.74	-0.68	-0.69	-0.75	-1.24	-1.24	-1.22	-1.54	-1.35	-1.34	-1.66
	-1.14	-1.27	-1.20	-1.34	-1.14	-1.27	-1.20	-1.33	-1.11	-1.25	-1.23
	-1.36	-1.11	-1.24	-1.23	-1.36	-1.00	-1.46	-1.02	-1.48	-0.99	-1.45
	-1.03	-1.49	-1.01	-1.45	-1.03	-1.47	-1.00	-1.44	-1.04	-1.48	-1.17
	-1.25	-1.20	-1.30	-1.17	-1.25	-1.22	-1.30	-1.15	-1.24	-1.23	-1.32
	-1.16	-1.23	-1.24	-1.31	-1.09	-1.37	-1.11	-1.38	-1.09	-1.36	-1.11
	-1.39	-1.10	-1.36	-1.12	-1.37	-1.10	-1.35	-1.12	-1.38	-0.70	-0.71
	-0.75	-0.76	-0.72	-0.72	-0.77	-0.77	-0.94	-0.93	-1.18	-1.02	-1.01
	-1.25										
14	-0.94	-0.95	-1.02	-1.03	-0.97	-0.98	-1.04	-1.05	-0.67	-0.68	-0.75
	-0.76	-0.69	-0.70	-0.77	-1.27	-1.25	-1.27	-1.58	-1.37	-1.38	-1.70
	-1.25	-1.40	-1.13	-1.28	-1.26	-1.39	-1.14	-1.28	-1.14	-1.29	-1.25
	-1.39	-1.14	-1.28	-1.25	-1.39	-1.05	-1.53	-1.01	-1.49	-1.01	-1.50
	-1.05	-1.53	-1.06	-1.52	-1.02	-1.48	-1.03	-1.48	-1.06	-1.52	-1.26
	-1.35	-1.17	-1.27	-1.26	-1.34	-1.19	-1.27	-1.19	-1.27	-1.26	-1.35
	-1.19	-1.27	-1.26	-1.34	-1.14	-1.42	-1.11	-1.40	-1.11	-1.40	-1.14
	-1.42	-1.14	-1.41	-1.12	-1.39	-1.12	-1.39	-1.14	-1.41	-0.72	-0.72
	-0.77	-0.77	-0.73	-0.74	-0.78	-0.79	-0.96	-0.97	-1.21	-1.03	-1.04
	-1.29										
15	-0.98	-0.99	-1.05	-1.06	-1.00	-1.01	-1.08	-1.09	-0.69	-0.70	-0.77
	-0.78	-0.72	-0.73	-0.80	-1.32	-1.28	-1.34	-1.64	-1.39	-1.46	-1.76
	-1.33	-1.48	-1.15	-1.30	-1.33	-1.48	-1.15	-1.30	-1.33	-1.49	-1.14
	-1.30	-1.34	-1.48	-1.15	-1.29	-1.09	-1.60	-1.04	-1.55	-1.09	-1.61
	-1.03	-1.55	-1.10	-1.59	-1.05	-1.54	-1.10	-1.59	-1.05	-1.54	-1.33
	-1.42	-1.19	-1.30	-1.33	-1.42	-1.21	-1.30	-1.33	-1.42	-1.21	-1.30
	-1.33	-1.42	-1.21	-1.30	-1.18	-1.49	-1.15	-1.45	-1.18	-1.49	-1.15
	-1.45	-1.19	-1.48	-1.16	-1.44	-1.19	-1.48	-1.15	-1.44	-0.74	-0.75
	-0.80	-0.80	-0.76	-0.77	-0.81	-0.82	-0.98	-1.02	-1.26	-1.05	-1.10
	-1.33										
16	-1.01	-1.02	-1.09	-1.10	-1.04	-1.05	-1.12	-1.13	-0.72	-0.73	-0.80
	-0.81	-0.75	-0.76	-0.83	-1.37	-1.31	-1.42	-1.71	-1.42	-1.53	-1.83
	-1.41	-1.58	-1.16	-1.32	-1.41	-1.57	-1.16	-1.32	-1.40	-1.56	-1.17
	-1.33	-1.40	-1.56	-1.17	-1.33	-1.14	-1.68	-1.06	-1.61	-1.13	-1.68
	-1.06	-1.61	-1.15	-1.67	-1.07	-1.59	-1.14	-1.67	-1.08	-1.60	-1.40
	-1.49	-1.22	-1.33	-1.40	-1.49	-1.24	-1.33	-1.39	-1.49	-1.24	-1.34
	-1.39	-1.48	-1.25	-1.34	-1.23	-1.55	-1.18	-1.51	-1.23	-1.55	-1.18
	-1.51	-1.24	-1.55	-1.19	-1.50	-1.24	-1.54	-1.19	-1.50	-0.77	-0.78
	-0.82	-0.83	-0.79	-0.80	-0.84	-0.85	-1.00	-1.08	-1.31	-1.07	-1.16
	-1.39										
....											
1408	-1.33	-1.36	-1.51	-1.53	-1.37	-1.40	-1.55	-1.58	-0.92	-0.95	-1.10
	-1.13	-0.96	-0.99	-1.14	-1.55	-1.53	-1.63	-1.82	-1.77	-1.87	-2.07
	-1.99	-1.75	-1.26	-1.02	-2.00	-1.74	-1.27	-1.01	-2.04	-1.79	-1.22
	-0.97	-2.04	-1.79	-1.22	-0.97	-2.03	-1.21	-1.81	-0.99	-2.04	-1.22
	-1.80	-0.97	-2.04	-1.20	-1.82	-0.98	-2.05	-1.21	-1.81	-0.96	-1.81
	-1.66	-1.38	-1.20	-1.81	-1.66	-1.35	-1.20	-1.84	-1.69	-1.32	-1.17
	-1.84	-1.69	-1.32	-1.17	-1.82	-1.33	-1.68	-1.20	-1.83	-1.34	-1.67
	-1.19	-1.82	-1.33	-1.68	-1.19	-1.83	-1.34	-1.67	-1.18	-1.01	-1.03
	-1.13	-1.15	-1.04	-1.05	-1.16	-1.17	-1.16	-1.24	-1.39	-1.32	-1.40
	-1.55										
	Min/Max										
	-2.35										
	-0.17										

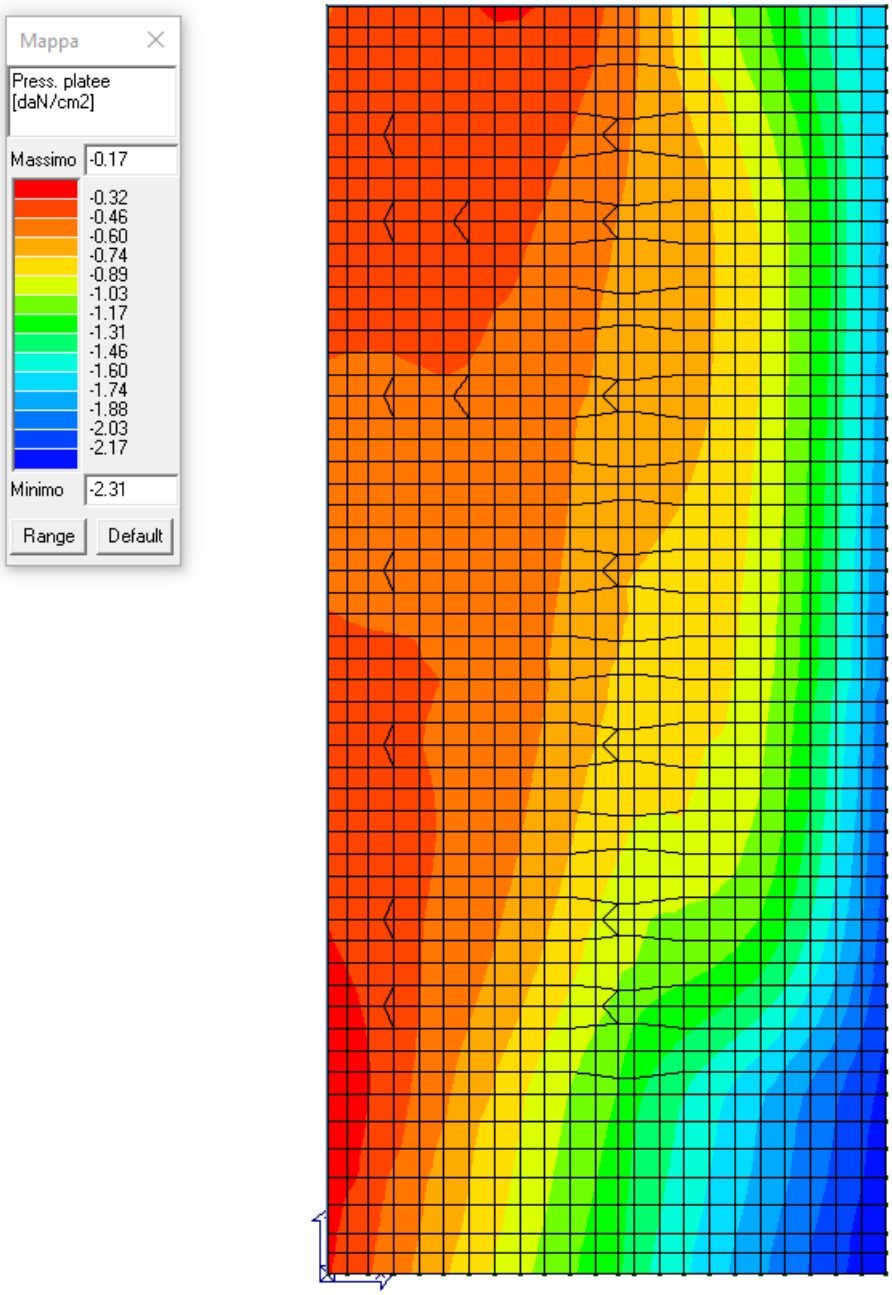
PRESSIONE PLATEA

Pressione massima combinazioni SLU STR A1 (CMB 22)

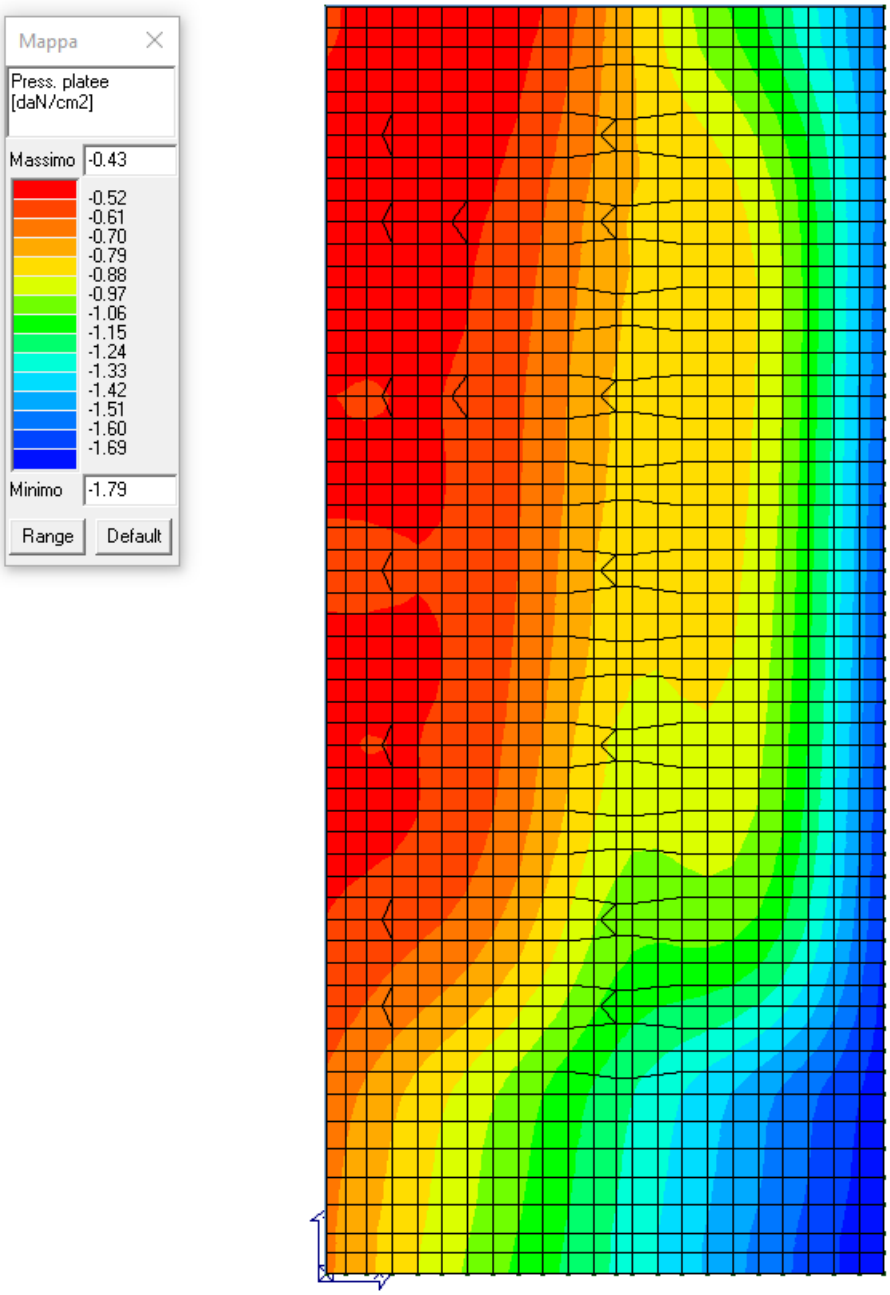




Pressione massima combinazioni SLV sismiche (CMB 34)



Pressione massima combinazioni SLE (rara) (CMB 100)



2.10.4 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

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

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

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

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

La progettazione degli elementi strutturali con proprietà fondazione è effettuata (per travi e platee) incrementando le sollecitazioni delle combinazioni con sisma del fattore: $\gamma rd = 1.1$ in CDB e $\gamma rd = 1.3$ in CDA per pali, plinti, travi e platee.

In particolare i simboli utilizzati assumono il seguente significato:

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

N	**M**	azioni membranali e flessionali (in direzione dell'armatura principale e secondaria) estratte, poiché rappresentative, tra quelle utilizzate per il progetto e la verifica

TABELLA VERIFICHE ELEMENTI GUSCIO IN C.A.

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok 1	0.07	2.03e-02	1.10e-03	15.7	15.7	15.7	15.7	-4.3	8.7	-4.3	-619.8	-532.4	-124.6
1	ok 2	0.07	6.43e-02	1.71e-03	15.7	15.7	15.7	15.7	-5.8	3.3	-7.2	-2186.9	-698.0	-321.1
1	ok 3	0.07	0.1	3.18e-03	15.7	15.7	15.7	15.7	-25.2	-6.9	-0.5	-3679.2	-91.5	-1048.9
1	ok 4	0.07	0.1	1.27e-03	15.7	15.7	15.7	15.7	14.9	0.2	-3.8	-3660.8	-652.5	-871.6
1	ok 5	0.07	8.33e-02	7.55e-04	15.7	15.7	15.7	15.7	42.2	-5.5	-8.9	-1605.0	-200.2	-1814.1
1	ok 6	0.07	9.08e-02	1.99e-03	15.7	15.7	15.7	15.7	110.4	-5.7	-4.7	-2290.1	76.9	-1367.0
1	ok 7	0.07	0.1	3.49e-03	15.7	15.7	15.7	15.7	126.7	-5.4	-4.5	-2994.9	125.3	-795.5
1	ok 8	0.07	0.1	5.25e-03	15.7	15.7	15.7	15.7	112.8	-5.1	7.0	-3255.7	83.1	665.2
1	ok 9	0.07	0.1	7.19e-03	15.7	15.7	15.7	15.7	80.4	-5.2	7.1	-2898.1	60.5	1356.4
1	ok 10	0.07	8.84e-02	9.24e-03	15.7	15.7	15.7	15.7	31.0	-5.2	4.9	-1827.1	0.2	1907.4
1	ok 11	0.07	6.29e-02	1.20e-02	15.7	15.7	15.7	15.7	-48.3	-5.2	4.8	-44.5	-110.4	2168.2
1	ok 12	0.07	8.78e-02	2.21e-02	15.7	15.7	15.7	15.7	-65.4	-6.2	3.8	1978.2	-238.6	2024.8
1	ok 13	0.07	9.93e-02	3.59e-02	15.7	15.7	15.7	15.7	-146.2	-9.5	1.3	3323.7	-304.3	1465.5
1	ok 14	0.07	0.1	4.00e-02	15.7	15.7	15.7	15.7	-176.8	-12.2	1.6	3870.3	-630.6	756.1
1	ok 15	0.07	8.29e-02	3.42e-02	15.7	15.7	15.7	15.7	-120.4	-7.6	-4.3	2827.3	-421.3	-977.7
1	ok 16	0.07	6.06e-02	2.27e-02	15.7	15.7	15.7	15.7	-28.7	-5.0	-6.1	1212.5	-281.0	-1417.6
1	ok 17	0.07	5.52e-02	1.96e-02	15.7	15.7	15.7	15.7	58.0	-4.6	-5.1	-659.8	-184.9	-1433.6
1	ok 18	0.07	7.85e-02	1.75e-02	15.7	15.7	15.7	15.7	117.8	-4.5	-4.8	-2013.4	-159.7	-1076.6
1	ok 19	0.07	9.35e-02	1.55e-02	15.7	15.7	15.7	15.7	145.5	-5.5	7.3	-2444.7	-205.1	879.1
1	ok 20	0.07	9.69e-02	1.33e-02	15.7	15.7	15.7	15.7	147.2	-5.7	7.8	-1992.9	-253.5	1538.0
1	ok 21	0.07	7.84e-02	1.08e-02	15.7	15.7	15.7	15.7	124.2	-5.5	7.7	-544.7	-342.4	2105.2
1	ok 22	0.07	9.47e-02	7.00e-03	15.7	15.7	15.7	15.7	78.2	-6.2	7.7	1633.0	-485.7	2286.6
1	ok 23	0.07	0.1	5.79e-03	15.7	15.7	15.7	15.7	22.9	-10.4	4.7	2565.9	-634.0	2062.2
1	ok 24	0.07	6.09e-02	2.00e-03	15.7	15.7	15.7	15.7	-4.1	-12.1	4.1	-992.8	-689.5	1290.1
1	ok 25	0.07	6.32e-02	2.90e-03	15.7	15.7	15.7	15.7	-5.8	24.8	-8.2	-762.4	-2105.2	-269.3
1	ok 26	0.07	0.1	5.52e-03	15.7	15.7	15.7	15.7	-12.1	12.3	-51.4	-3147.3	-3329.6	265.3
1	ok 27	0.07	0.2	4.27e-03	15.7	15.7	15.7	15.7	-31.6	-19.0	-20.3	-6199.6	-2849.4	-2226.1
1	ok 28	0.07	0.3	5.16e-03	15.7	15.7	15.7	15.7	52.4	18.9	-41.4	-5152.0	-4850.6	-4183.6
1	ok 29	0.07	0.2	5.19e-03	15.7	15.7	15.7	15.7	36.9	-18.4	-58.3	-1902.8	-3963.7	-4352.0
1	ok 30	0.07	0.2	4.22e-03	15.7	15.7	15.7	15.7	50.3	-20.0	-46.3	-2390.8	-5030.3	-3311.9
1	ok 31	0.07	0.2	4.17e-03	15.7	15.7	15.7	15.7	61.5	-19.7	-37.7	-3006.5	-5867.5	-1819.0
1	ok 32	0.07	0.2	5.65e-03	15.7	15.7	15.7	15.7	60.2	-18.7	-32.2	-3284.6	-6354.3	234.8
1	ok 33	0.07	0.2	7.12e-03	15.7	15.7	15.7	15.7	50.4	-18.3	25.4	-3041.0	-6305.9	2189.7
1	ok 34	0.07	0.2	8.60e-03	15.7	15.7	15.7	15.7	24.2	-19.5	-14.9	-2232.0	-5697.1	3715.5
1	ok 35	0.07	0.2	1.30e-02	15.7	15.7	15.7	15.7	-5.1	-18.0	42.8	-865.0	-4499.7	4543.3
1	ok 36	0.07	0.2	1.97e-02	15.7	15.7	15.7	15.7	-8.7	-0.3	55.2	1169.9	-2239.4	4782.5
1	ok 37	0.07	0.1	2.36e-02	15.7	15.7	15.7	15.7	-24.5	9.9	34.6	2323.2	-1122.9	3025.7
1	ok 38	0.07	7.91e-02	2.31e-02	15.7	15.7	15.7	15.7	-51.7	14.8	-2.9	2676.6	-816.9	703.1
1	ok 39	0.07	9.40e-02	2.29e-02	15.7	15.7	15.7	15.7	-47.5	-5.8	-61.7	1458.7	-2626.6	-1865.9
1	ok 40	0.07	0.2	1.84e-02	15.7	15.7	15.7	15.7	-11.7	-19.4	-66.1	-1.9	-4689.6	-2984.5
1	ok 41	0.07	0.2	1.74e-02	15.7	15.7	15.7	15.7	19.0	-22.9	-53.2	-1600.5	-6739.5	-2724.7
1	ok 42	0.07	0.2	1.64e-02	15.7	15.7	15.7	15.7	-14.8	-22.8	-44.3	-2734.7	-8248.2	-1569.7
1	ok 43	0.07	0.3	1.51e-02	15.7	15.7	15.7	15.7	3.1	-21.7	-38.3	-3170.5	-9121.7	223.3
1	ok 44	0.07	0.3	1.36e-02	15.7	15.7	15.7	15.7	3.1	-23.0	21.6	-2799.4	-9299.0	2186.4
1	ok 45	0.07	0.3	1.16e-02	15.7	15.7	15.7	15.7	-1.8	-22.8	34.4	-1582.5	-8666.0	3761.4
1	ok 46	0.07	0.3	9.57e-03	15.7	15.7	15.7	15.7	26.2	-15.4	21.4	737.4	-6909.1	4266.1
1	ok 47	0.07	0.2	9.61e-03	15.7	15.7	15.7	15.7	5.1	-18.2	52.8	1645.4	-4871.2	4151.0
1	ok 48	0.07	0.2	7.86e-03	15.7	15.7	15.7	15.7	-39.1	-37.7	11.3	-1194.1	-3313.8	2940.6
1	ok 49	0.07	0.1	4.72e-03	15.7	15.7	15.7	15.7	-6.1	38.9	-10.9	-97.4	-3663.3	-864.7
1	ok 50	0.07	0.2	5.31e-03	15.7	15.7	15.7	15.7	-14.3	25.4	-54.6	-3463.4	-5948.2	-1864.9
1	ok 51	0.07	0.4	1.67e-02	15.7	15.7	15.7	15.7	-71.5	-46.9	-118.4	-1.238e+04	-1.139e+04	-3219.0
1	ok 52	0.07	0.4	9.36e-03	15.7	15.7	15.7	15.7	80.6	24.9	-89.1	-5742.0	-1.113e+04	-3809.5
1	ok 53	0.07	0.7	8.84e-03	15.7	15.7	15.7	15.7	96.4	282.9	-33.6	2906.8	1.458e+04	-5147.9
1	ok 54	0.07	0.9	8.02e-03	15.7	16.0	15.7	16.0	103.5	367.8	-33.0	4225.6	1.990e+04	-4113.3
1	ok 55	0.07	0.9	6.62e-03	15.7	17.0	15.7	18.5	108.9	412.5	-33.4	4835.7	2.503e+04	-2427.8
1	ok 56	0.07	0.9	7.37e-03	15.7	16.1	15.7	18.4	103.7	425.7	-32.8	4919.8	2.533e+04	-202.8
1	ok 57	0.07	0.9	9.82e-03	15.7	15.7	15.7	17.0	89.0	410.5	-119.3	4581.1	2.316e+04	2104.8
1	ok 58	0.07	0.8	1.36e-02	15.7	15.7	15.7	15.7	63.5	366.3	-114.9	3848.8	1.871e+04	4010.7
1	ok 59	0.07	0.6	1.78e-02	15.7	15.7	15.7	15.7	-9.4	-26.9	-10.3	-2723.6	-1.541e+04	5266.7
1	ok 60	0.07	0.4	2.35e-02	15.7	15.7	15.7	15.7	-4.7	2.8	70.2	-2366.4	-1.326e+04	3087.2
1	ok 61	0.07	0.3	2.25e-02	15.7	15.7	15.7	15.7	-23.2	64.1	53.8	-1608.1	-1.070e+04	1962.8
1	ok 62	0.07	0.3	2.09e-02	15.7	15.7	15.7	15.7	-75.6	38.7	-59.2	-2551.1	-9113.2	-434.5
1	ok 63	0.07	0.4	2.08e-02	15.7	15.7	15.7	15.7	-32.6	24.6	-114.7	-1977.6	-1.237e+04	-1805.7
1	ok 64	0.07	0.5	2.24e-02	15.7	15.7	15.7	15.7	-64.1	-22.4	-2.2	-2706.2	-1.634e+04	-4556.5

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok 65	0.07	0.6	2.20e-02	15.7	15.7	15.7	15.7	-67.7	-36.0	6.8	-3784.3	-2.147e+04	-4066.2
1	ok 66	0.07	0.7	2.05e-02	15.7	15.7	15.7	15.7	-63.8	-38.8	18.2	-4548.4	-2.496e+04	-2464.6
1	ok 67	0.07	0.8	1.89e-02	15.7	15.7	15.7	15.7	-59.9	-38.5	30.5	-4870.3	-2.706e+04	-428.4
1	ok 68	0.07	0.8	1.70e-02	15.7	15.7	15.7	15.7	-63.3	-38.5	-46.6	-4676.7	-2.776e+04	2156.6
1	ok 69	0.07	0.8	1.47e-02	15.7	15.7	15.7	15.7	-67.5	-35.0	-28.5	-3842.9	-2.667e+04	4234.6
1	ok 70	0.07	0.7	1.32e-02	15.7	15.7	15.7	15.7	-70.0	-20.8	-24.8	-2318.3	-2.292e+04	5802.3
1	ok 71	0.07	0.6	1.22e-02	15.7	15.7	15.7	15.7	-73.0	64.8	15.8	-1351.8	-1.778e+04	4443.8
1	ok 72	0.07	0.4	2.07e-02	15.7	15.7	15.7	15.7	13.7	-96.0	-77.4	-593.0	-1.595e+04	2324.7
1	ok 73	0.07	0.1	4.59e-03	15.7	15.7	15.7	15.7	-8.0	81.4	-1.9	-616.4	-3868.4	-593.6
1	ok 74	0.07	0.2	5.57e-03	15.7	15.7	15.7	15.7	-10.2	84.5	-38.4	-5335.3	-4962.1	-3072.4
1	ok 75	0.07	0.3	8.38e-03	15.7	15.7	15.7	15.7	2.5	58.7	-113.3	-1.190e+04	-4708.2	-2306.3
1	ok 76	0.07	0.1	1.98e-03	15.7	15.7	15.7	15.7	91.3	195.0	-84.3	-3240.3	1979.6	-594.3
1	ok 77	0.07	0.3	2.78e-03	15.7	15.7	15.7	15.7	67.8	289.4	-93.1	870.2	6620.4	-1170.2
1	ok 78	0.07	0.5	3.72e-03	15.7	15.7	15.7	15.7	53.1	363.1	-54.9	2831.1	1.043e+04	-1731.4
1	ok 79	0.07	0.6	4.76e-03	15.7	15.7	15.7	15.7	49.1	405.6	-49.5	3964.3	1.287e+04	-1358.9
1	ok 80	0.07	0.6	5.78e-03	15.7	15.7	15.7	15.7	44.6	417.6	-42.3	4491.5	1.387e+04	-488.7
1	ok 81	0.07	0.6	6.62e-03	15.7	15.7	15.7	15.7	46.5	397.8	-87.0	4651.6	1.326e+04	505.0
1	ok 82	0.07	0.5	7.10e-03	15.7	15.7	15.7	15.7	41.3	358.2	-83.0	4076.4	1.145e+04	1291.7
1	ok 83	0.07	0.4	1.07e-02	15.7	15.7	15.7	15.7	45.3	300.0	-41.7	2834.8	8912.8	1913.8
1	ok 84	0.07	0.2	1.48e-02	15.7	15.7	15.7	15.7	110.7	210.3	-60.6	812.9	5585.0	2036.5
1	ok 85	0.07	0.1	1.75e-02	15.7	15.7	15.7	15.7	121.2	133.9	-156.2	-3227.5	1995.5	1149.5
1	ok 86	0.07	0.2	1.89e-02	15.7	15.7	15.7	15.7	-97.8	64.7	-131.8	-6549.6	-1662.6	-909.9
1	ok 87	0.07	0.1	1.73e-02	15.7	15.7	15.7	15.7	16.3	137.6	-186.4	-1038.0	3334.1	-1430.5
1	ok 88	0.07	0.3	1.89e-02	15.7	15.7	15.7	15.7	-4.4	215.6	-212.0	1847.1	7197.1	-1876.6
1	ok 89	0.07	0.5	1.96e-02	15.7	15.7	15.7	15.7	-16.2	284.4	-208.8	3632.1	1.078e+04	-1816.8
1	ok 90	0.07	0.6	1.91e-02	15.7	15.7	15.7	15.7	-23.6	327.6	-189.8	4774.7	1.337e+04	-1456.8
1	ok 91	0.07	0.6	1.79e-02	15.7	15.7	15.7	15.7	-19.9	342.7	-157.3	5527.4	1.467e+04	-632.4
1	ok 92	0.07	0.6	1.62e-02	15.7	15.7	15.7	15.7	-16.0	328.8	-123.1	6125.9	1.446e+04	208.5
1	ok 93	0.07	0.5	1.41e-02	15.7	15.7	15.7	15.7	-8.0	283.9	-86.3	6553.2	1.272e+04	1357.3
1	ok 94	0.07	0.4	1.17e-02	15.7	15.7	15.7	15.7	5.8	211.4	-50.1	6446.6	9513.2	2838.2
1	ok 95	0.07	0.3	9.24e-03	15.7	15.7	15.7	15.7	13.1	118.1	-42.3	4891.7	5332.3	4097.0
1	ok 96	0.07	0.2	1.10e-02	15.7	15.7	15.7	15.7	-18.3	70.2	-80.2	-4065.9	-1169.0	1926.1
1	ok 97	0.07	0.1	7.79e-03	15.7	15.7	15.7	15.7	-0.6	155.9	-9.7	-490.6	-3348.2	-808.3
1	ok 98	0.07	0.1	8.34e-03	15.7	15.7	15.7	15.7	-20.0	142.5	-37.5	-4301.2	-2670.9	-1299.8
1	ok 99	0.07	0.3	1.18e-02	15.7	15.7	15.7	15.7	-41.6	153.3	-36.9	-1.013e+04	-2499.1	-552.3
1	ok 100	0.07	0.1	3.03e-03	15.7	15.7	15.7	15.7	133.0	165.7	-20.2	-2797.7	-1698.9	1633.4
1	ok 101	0.07	0.2	4.03e-03	15.7	15.7	15.7	15.7	113.4	208.0	-30.0	-3715.9	-2834.7	1183.2
1	ok 102	0.07	0.2	4.82e-03	15.7	15.7	15.7	15.7	-29.9	-10.7	31.0	2406.3	5433.5	-403.4
1	ok 103	0.07	0.2	5.50e-03	15.7	15.7	15.7	15.7	-36.9	-12.6	33.3	2600.1	6654.6	-272.6
1	ok 104	0.07	0.3	6.05e-03	15.7	15.7	15.7	15.7	-42.4	-14.0	35.3	2849.1	7441.5	-166.4
1	ok 105	0.07	0.3	6.53e-03	15.7	15.7	15.7	15.7	-46.0	-14.1	36.7	3292.4	7797.8	-16.2
1	ok 106	0.07	0.3	6.85e-03	15.7	15.7	15.7	15.7	-48.0	-10.7	37.4	3822.2	7621.5	220.5
1	ok 107	0.07	0.2	8.14e-03	15.7	15.7	15.7	15.7	-52.2	0.7	34.6	3995.6	6637.4	554.5
1	ok 108	0.07	0.1	1.40e-02	15.7	15.7	15.7	15.7	-60.8	22.6	26.2	2655.4	4629.6	1017.8
1	ok 109	0.07	0.1	1.67e-02	15.7	15.7	15.7	15.7	56.2	184.3	-167.0	-4379.5	1051.8	-57.0
1	ok 110	0.07	0.3	2.07e-02	15.7	15.7	15.7	15.7	-92.2	46.3	-24.1	-1.055e+04	-948.1	797.4
1	ok 111	0.07	0.1	1.76e-02	15.7	15.7	15.7	15.7	20.1	182.8	-162.7	-1709.8	2936.7	1028.5
1	ok 112	0.07	0.2	1.76e-02	15.7	15.7	15.7	15.7	-104.0	-1.1	-98.4	3759.8	7386.2	-764.3
1	ok 113	0.07	0.3	1.82e-02	15.7	15.7	15.7	15.7	-108.4	-16.8	-103.9	4410.6	9706.7	-343.0
1	ok 114	0.07	0.4	1.83e-02	15.7	15.7	15.7	15.7	-112.2	-22.2	-105.9	4450.1	1.119e+04	-177.5
1	ok 115	0.07	0.5	1.79e-02	15.7	15.7	15.7	15.7	-36.7	297.5	-159.8	5324.2	1.210e+04	-74.7
1	ok 116	0.07	0.5	1.70e-02	15.7	15.7	15.7	15.7	-27.9	279.1	-135.6	6427.7	1.278e+04	-291.5
1	ok 117	0.07	0.5	1.57e-02	15.7	15.7	15.7	15.7	-4.7	231.9	-110.8	7516.0	1.237e+04	-317.5
1	ok 118	0.07	0.4	1.38e-02	15.7	15.7	15.7	15.7	34.6	163.7	-90.0	7983.9	1.053e+04	-84.7
1	ok 119	0.07	0.3	1.20e-02	15.7	15.7	15.7	15.7	176.1	163.1	-105.5	8454.0	6157.8	1378.9
1	ok 120	0.07	0.3	9.41e-03	15.7	15.7	15.7	15.7	236.3	248.2	-197.3	7668.2	3791.0	1122.3
1	ok 121	0.07	0.3	1.67e-02	15.7	15.7	15.7	15.7	1.7	164.8	-8.2	-1448.5	-1.021e+04	711.0
1	ok 122	0.07	0.3	1.48e-02	15.7	15.7	15.7	15.7	-27.7	150.2	-5.1	-4338.5	-8568.8	1391.4
…														
1	ok 1408	0.07	5.48e-02	1.60e-03	15.7	15.7	15.7	15.7	7.0	3.9	-3.0	-758.9	-741.0	-970.9
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N x**	**N y**	**N xy**	**M x**	**M y**	**M xy**
	Min								-196.88	-343.97	-405.45	-8.042e+04	-7.185e+04	-2.163e+04
	Max	0.12	0.99	0.07	43.94	30.26	35.20	27.10	539.24	425.70	361.37	6.131e+04	2.533e+04	2.761e+04

L’armatura della platea è costituita da una maglia base di 1ϕ20/20/20 inf/sup a cui si aggiungono ferri alternati con sezione variabile.

2.10.5 STATI LIMITE D' ESERCIZIO

LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

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

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

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

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

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

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

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

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

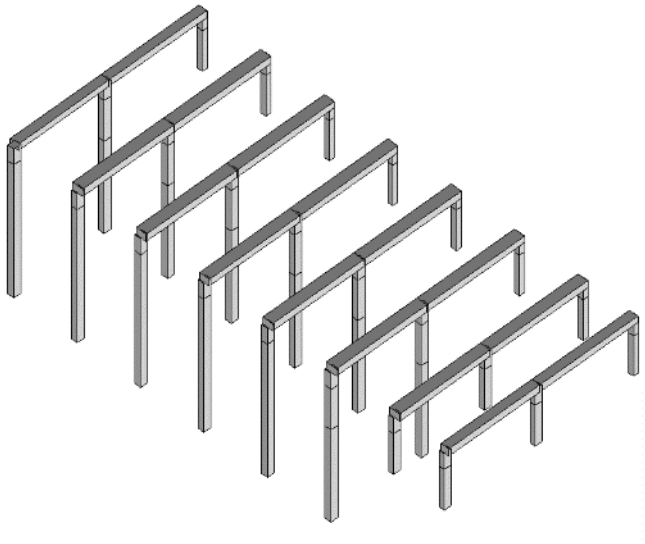
TABELLA STATI LIMITE D' ESERCIZIO

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1	0.01	0.03	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2	0.04	0.12	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3	0.05	0.16	0.0	98,98,0	0.0	0.0	0.0	0,0,0
4	0.04	0.15	0.0	98,98,0	0.0	0.0	0.0	0,0,0
5	0.04	0.15	0.0	98,95,0	0.0	0.0	0.0	0,0,0
6	0.03	0.17	0.0	100,95,0	0.0	0.0	0.0	0,0,0
7	0.03	0.18	0.0	100,95,0	0.0	0.0	0.0	0,0,0
8	0.04	0.18	0.0	100,95,0	0.0	0.0	0.0	0,0,0
9	0.04	0.16	0.0	100,95,0	0.0	0.0	0.0	0,0,0
10	0.05	0.12	0.0	100,100,0	0.0	0.0	0.0	0,0,0
11	0.05	0.09	0.0	100,100,0	0.0	0.0	0.0	0,0,0
12	0.04	0.08	0.0	100,98,0	0.0	0.0	0.0	0,0,0
13	0.03	0.07	0.0	97,97,0	0.0	0.0	0.0	0,0,0
14	0.03	0.07	0.0	97,97,0	0.0	0.0	0.0	0,0,0
15	0.04	0.09	0.0	100,100,0	0.0	0.0	0.0	0,0,0
16	0.05	0.11	0.0	100,100,0	0.0	0.0	0.0	0,0,0
17	0.05	0.13	0.0	100,100,0	0.0	0.0	0.0	0,0,0
18	0.05	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
19	0.05	0.15	0.0	100,100,0	0.0	0.0	0.0	0,0,0
20	0.05	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
21	0.06	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
22	0.05	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
23	0.04	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
24	0.03	0.10	0.0	98,98,0	0.0	0.0	0.0	0,0,0
25	0.10	0.24	0.0	98,98,0	0.0	0.0	0.0	0,0,0
26	0.10	0.32	0.0	98,98,0	0.0	0.0	0.0	0,0,0
27	0.08	0.24	0.0	100,98,0	0.0	0.0	0.0	0,0,0
28	0.10	0.27	0.0	100,100,0	0.0	0.0	0.0	0,0,0
29	0.11	0.32	0.0	100,100,0	0.0	0.0	0.0	0,0,0
30	0.12	0.35	0.0	100,100,0	0.0	0.0	0.0	0,0,0
31	0.13	0.37	0.0	100,100,0	0.0	0.0	0.0	0,0,0
32	0.13	0.37	0.0	100,100,0	0.0	0.0	0.0	0,0,0
33	0.13	0.36	0.0	100,100,0	0.0	0.0	0.0	0,0,0
34	0.12	0.33	0.0	100,100,0	0.0	0.0	0.0	0,0,0
35	0.10	0.29	0.0	100,100,0	0.0	0.0	0.0	0,0,0
36	0.08	0.32	0.0	100,97,0	0.0	0.0	0.0	0,0,0
37	0.09	0.32	0.0	100,97,0	0.0	0.0	0.0	0,0,0
38	0.13	0.37	0.0	100,100,0	0.0	0.0	0.0	0,0,0
39	0.16	0.44	0.0	100,100,0	0.0	0.0	0.0	0,0,0
40	0.17	0.49	0.0	100,100,0	0.0	0.0	0.0	0,0,0
41	0.18	0.53	0.0	100,100,0	0.0	0.0	0.0	0,0,0
42	0.19	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
43	0.19	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
44	0.19	0.54	0.0	100,100,0	0.0	0.0	0.0	0,0,0
45	0.17	0.50	0.0	100,100,0	0.0	0.0	0.0	0,0,0
46	0.14	0.45	0.0	100,100,0	0.0	0.0	0.0	0,0,0
47	0.04	0.12	0.0	98,98,0	0.0	0.0	0.0	0,0,0
48	0.11	0.33	0.0	98,98,0	0.0	0.0	0.0	0,0,0
49	0.07	0.33	0.0	98,98,0	0.0	0.0	0.0	0,0,0
50	0.06	0.41	0.0	95,95,0	0.0	0.0	0.0	0,0,0
51	0.09	0.54	0.0	95,95,0	0.0	0.0	0.0	0,0,0
52	0.10	0.53	0.0	95,95,0	0.0	0.0	0.0	0,0,0
53	0.10	0.54	0.0	95,95,0	0.0	0.0	0.0	0,0,0
54	0.10	0.54	0.0	95,95,0	0.0	0.0	0.0	0,0,0
55	0.10	0.55	0.0	95,95,0	0.0	0.0	0.0	0,0,0
56	0.10	0.50	0.0	99,95,0	0.0	0.0	0.0	0,0,0
57	0.10	0.37	0.0	99,95,0	0.0	0.0	0.0	0,0,0
58	0.09	0.25	0.0	99,99,0	0.0	0.0	0.0	0,0,0
59	0.07	0.25	0.0	99,100,0	0.0	0.0	0.0	0,0,0
60	0.09	0.25	0.0	98,95,0	0.0	0.0	0.0	0,0,0
61	0.11	0.32	0.0	98,98,0	0.0	0.0	0.0	0,0,0
62	0.13	0.39	0.0	98,96,0	0.0	0.0	0.0	0,0,0
63	0.13	0.44	0.0	98,96,0	0.0	0.0	0.0	0,0,0
64	0.14	0.43	0.0	98,96,0	0.0	0.0	0.0	0,0,0
65	0.14	0.43	0.0	98,96,0	0.0	0.0	0.0	0,0,0
66	0.14	0.41	0.0	98,98,0	0.0	0.0	0.0	0,0,0
67	0.13	0.41	0.0	98,98,0	0.0	0.0	0.0	0,0,0
68	0.12	0.38	0.0	98,98,0	0.0	0.0	0.0	0,0,0
69	0.09	0.30	0.0	98,100,0	0.0	0.0	0.0	0,0,0
70	0.03	0.11	0.0	98,98,0	0.0	0.0	0.0	0,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
71	0.07	0.23	0.0	98,98,0	0.0	0.0	0.0	0,0,0
72	0.04	0.21	0.0	94,95,0	0.0	0.0	0.0	0,0,0
73	0.03	0.24	0.0	99,95,0	0.0	0.0	0.0	0,0,0
74	0.04	0.27	0.0	99,98,0	0.0	0.0	0.0	0,0,0
75	0.05	0.33	0.0	99,98,0	0.0	0.0	0.0	0,0,0
76	0.05	0.34	0.0	99,98,0	0.0	0.0	0.0	0,0,0
77	0.06	0.34	0.0	99,98,0	0.0	0.0	0.0	0,0,0
78	0.06	0.33	0.0	99,98,0	0.0	0.0	0.0	0,0,0
79	0.06	0.28	0.0	99,98,0	0.0	0.0	0.0	0,0,0
80	0.05	0.22	0.0	99,100,0	0.0	0.0	0.0	0,0,0
81	0.03	0.15	0.0	99,100,0	0.0	0.0	0.0	0,0,0
82	0.08	0.18	0.0	99,99,0	0.0	0.0	0.0	0,0,0
83	0.08	0.18	0.0	98,96,0	0.0	0.0	0.0	0,0,0
84	0.05	0.24	0.0	98,100,0	0.0	0.0	0.0	0,0,0
85	0.07	0.30	0.0	98,100,0	0.0	0.0	0.0	0,0,0
86	0.08	0.35	0.0	98,100,0	0.0	0.0	0.0	0,0,0
87	0.09	0.37	0.0	98,100,0	0.0	0.0	0.0	0,0,0
88	0.09	0.36	0.0	98,100,0	0.0	0.0	0.0	0,0,0
89	0.09	0.35	0.0	98,100,0	0.0	0.0	0.0	0,0,0
90	0.09	0.31	0.0	98,100,0	0.0	0.0	0.0	0,0,0
91	0.08	0.28	0.0	98,100,0	0.0	0.0	0.0	0,0,0
92	0.06	0.25	0.0	98,96,0	0.0	0.0	0.0	0,0,0
93	0.02	0.15	0.0	98,95,0	0.0	0.0	0.0	0,0,0
94	0.06	0.19	0.0	98,98,0	0.0	0.0	0.0	0,0,0
95	0.04	0.22	0.0	99,95,0	0.0	0.0	0.0	0,0,0
96	0.03	0.30	0.0	95,95,0	0.0	0.0	0.0	0,0,0
97	0.04	0.34	0.0	99,95,0	0.0	0.0	0.0	0,0,0
98	0.05	0.36	0.0	99,95,0	0.0	0.0	0.0	0,0,0
99	0.05	0.36	0.0	99,95,0	0.0	0.0	0.0	0,0,0
100	0.06	0.35	0.0	99,95,0	0.0	0.0	0.0	0,0,0
101	0.06	0.33	0.0	99,95,0	0.0	0.0	0.0	0,0,0
102	0.06	0.28	0.0	99,95,0	0.0	0.0	0.0	0,0,0
103	0.05	0.22	0.0	99,95,0	0.0	0.0	0.0	0,0,0
104	0.03	0.16	0.0	99,97,0	0.0	0.0	0.0	0,0,0
105	0.08	0.20	0.0	99,95,0	0.0	0.0	0.0	0,0,0
106	0.08	0.20	0.0	98,97,0	0.0	0.0	0.0	0,0,0
107	0.05	0.22	0.0	98,97,0	0.0	0.0	0.0	0,0,0
108	0.07	0.25	0.0	98,100,0	0.0	0.0	0.0	0,0,0
109	0.08	0.30	0.0	98,100,0	0.0	0.0	0.0	0,0,0
110	0.09	0.32	0.0	98,100,0	0.0	0.0	0.0	0,0,0
111	0.09	0.33	0.0	98,100,0	0.0	0.0	0.0	0,0,0
112	0.09	0.33	0.0	98,100,0	0.0	0.0	0.0	0,0,0
113	0.09	0.32	0.0	98,100,0	0.0	0.0	0.0	0,0,0
114	0.07	0.28	0.0	98,100,0	0.0	0.0	0.0	0,0,0
115	0.05	0.31	0.0	98,100,0	0.0	0.0	0.0	0,0,0
116	0.08	0.30	0.0	95,95,0	0.0	0.0	0.0	0,0,0
117	0.08	0.33	0.0	95,95,0	0.0	0.0	0.0	0,0,0
118	0.07	0.39	0.0	95,95,0	0.0	0.0	0.0	0,0,0
119	0.07	0.41	0.0	95,95,0	0.0	0.0	0.0	0,0,0
120	0.07	0.41	0.0	95,95,0	0.0	0.0	0.0	0,0,0
121	0.06	0.41	0.0	95,95,0	0.0	0.0	0.0	0,0,0
122	0.05	0.41	0.0	95,95,0	0.0	0.0	0.0	0,0,0
…								
1343	0.04	0.15	0.0	100,100,0	0.0	0.0	0.0	0,0,0
	rRfck	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
Max	0.44	0.77	0.0		0.28	0.0	0.0	

2.11 STRUTTURA FABBRICATO

La struttura portante è in parte prefabbricata in C.A.P. (colonne lunghe e travi copertura) e in parte gettata in opera (colonne corte).



2.11.1 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 sotto riportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

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

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

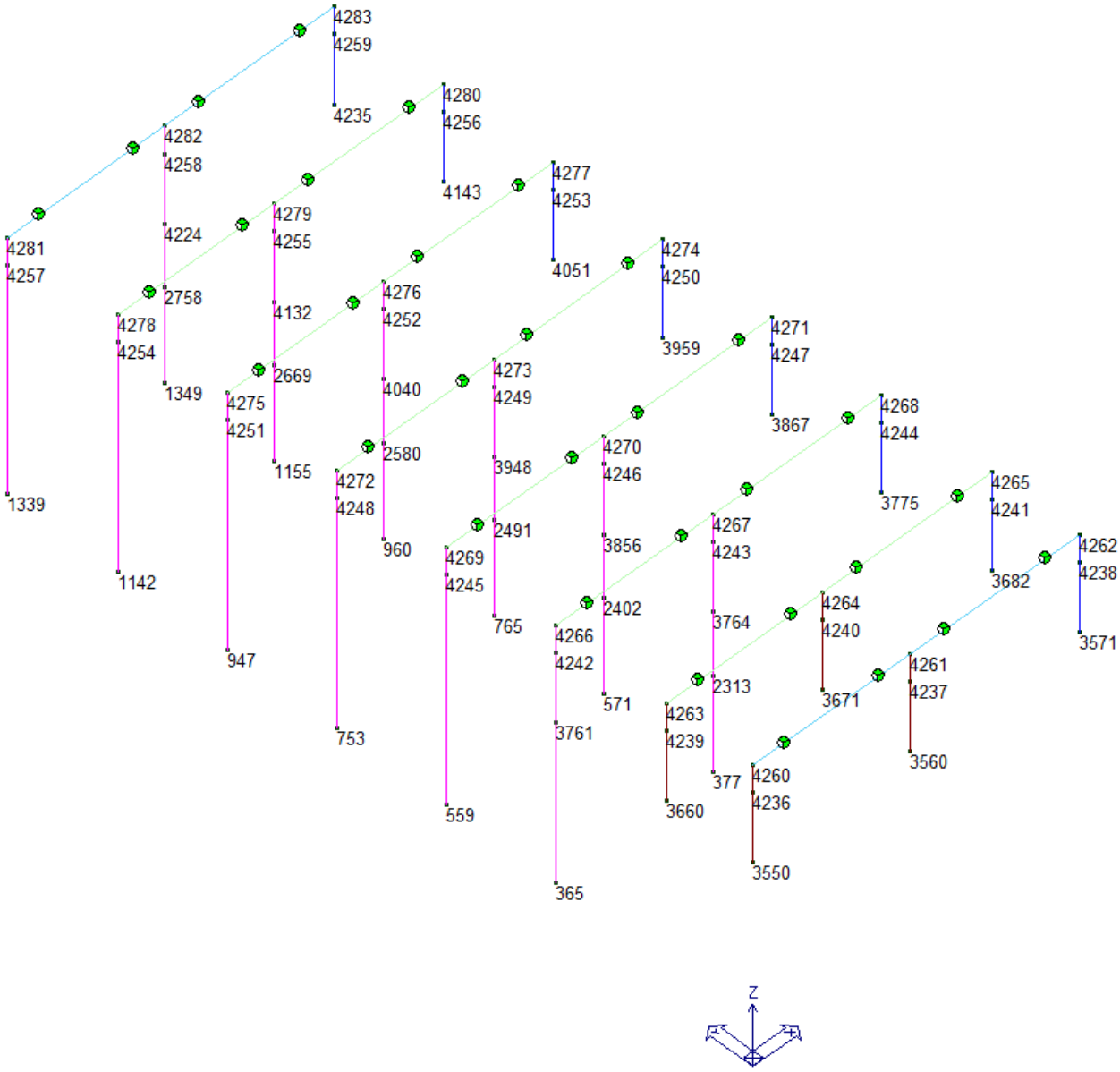
Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).

Note	(FS = 1, 2,…) eventuale codice del tipo di fondazione speciale (1, 2,… fanno riferimento alle tipologie: plinto, palo, plinto su pali,…) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
Rig. TX	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
365	150.0	1300.0	0.0	377	1065.0	1300.0	0.0	559	150.0	1940.0	0.0
571	1065.0	1940.0	0.0	753	150.0	2580.0	0.0	765	1065.0	2580.0	0.0
947	150.0	3220.0	0.0	960	1065.0	3220.0	0.0	1142	150.0	3860.0	0.0
1155	1065.0	3860.0	0.0	1339	150.0	4500.0	0.0	1349	1065.0	4500.0	0.0
2313	1065.0	1300.0	560.0	2402	1065.0	1940.0	560.0	2491	1065.0	2580.0	560.0
2580	1065.0	3220.0	560.0	2669	1065.0	3860.0	560.0	2758	1065.0	4500.0	560.0
3550	150.0	150.0	930.0	3560	1065.0	150.0	930.0	3571	2050.0	150.0	930.0
3660	150.0	660.0	930.0	3671	1065.0	660.0	930.0	3682	2050.0	660.0	930.0
3761	150.0	1300.0	930.0	3764	1065.0	1300.0	930.0	3775	2050.0	1300.0	930.0
3856	1065.0	1940.0	930.0	3867	2050.0	1940.0	930.0	3948	1065.0	2580.0	930.0
3959	2050.0	2580.0	930.0	4040	1065.0	3220.0	930.0	4051	2050.0	3220.0	930.0
4132	1065.0	3860.0	930.0	4143	2050.0	3860.0	930.0	4224	1065.0	4500.0	930.0
4235	2050.0	4500.0	930.0	4236	150.0	150.0	1340.0	4237	1065.0	150.0	1340.0
4238	2050.0	150.0	1340.0	4239	150.0	660.0	1340.0	4240	1065.0	660.0	1340.0
4241	2050.0	660.0	1340.0	4242	150.0	1300.0	1340.0	4243	1065.0	1300.0	1340.0
4244	2050.0	1300.0	1340.0	4245	150.0	1940.0	1340.0	4246	1065.0	1940.0	1340.0
4247	2050.0	1940.0	1340.0	4248	150.0	2580.0	1340.0	4249	1065.0	2580.0	1340.0
4250	2050.0	2580.0	1340.0	4251	150.0	3220.0	1340.0	4252	1065.0	3220.0	1340.0
4253	2050.0	3220.0	1340.0	4254	150.0	3860.0	1340.0	4255	1065.0	3860.0	1340.0
4256	2050.0	3860.0	1340.0	4257	150.0	4500.0	1340.0	4258	1065.0	4500.0	1340.0
4259	2050.0	4500.0	1340.0	4260	150.0	150.0	1500.0	4261	1065.0	150.0	1500.0
4262	2050.0	150.0	1500.0	4263	150.0	660.0	1500.0	4264	1065.0	660.0	1500.0
4265	2050.0	660.0	1500.0	4266	150.0	1300.0	1500.0	4267	1065.0	1300.0	1500.0
4268	2050.0	1300.0	1500.0	4269	150.0	1940.0	1500.0	4270	1065.0	1940.0	1500.0
4271	2050.0	1940.0	1500.0	4272	150.0	2580.0	1500.0	4273	1065.0	2580.0	1500.0
4274	2050.0	2580.0	1500.0	4275	150.0	3220.0	1500.0	4276	1065.0	3220.0	1500.0
4277	2050.0	3220.0	1500.0	4278	150.0	3860.0	1500.0	4279	1065.0	3860.0	1500.0
4280	2050.0	3860.0	1500.0	4281	150.0	4500.0	1500.0	4282	1065.0	4500.0	1500.0
4283	2050.0	4500.0	1500.0								

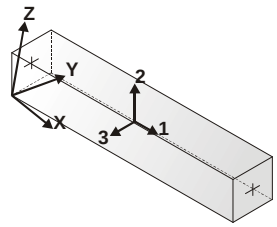
Numerazione nodi



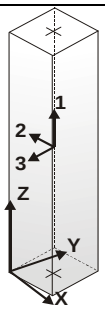
2.11.2 MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

LEGENDA 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.



orientamento elementi 2D non verticali



orientamento elementi 2D verticali

In particolare per ogni elemento viene indicato in tabella:

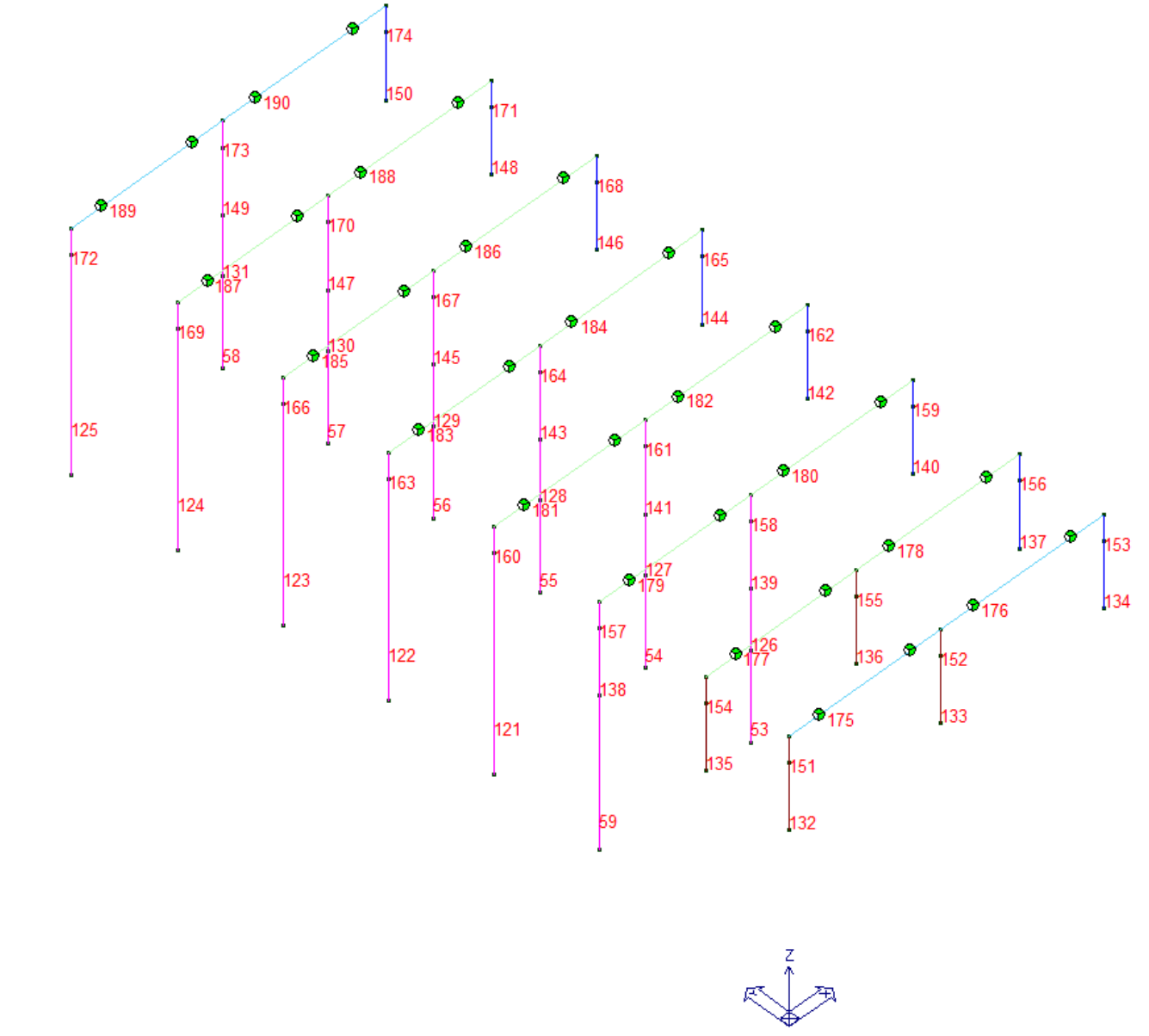
Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione dell'elemento,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

TABELLA DATI TRAVI

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
53	Pilas.	377	2313	7	1					
54	Pilas.	571	2402	7	1					
55	Pilas.	765	2491	7	1					
56	Pilas.	960	2580	7	1					
57	Pilas.	1155	2669	7	1					
58	Pilas.	1349	2758	7	1					
59	Pilas.	365	3761	7	1					
121	Pilas.	559	4245	7	1					

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
122	Pilas.	753	4248	7	1					
123	Pilas.	947	4251	7	1					
124	Pilas.	1142	4254	7	1					
125	Pilas.	1339	4257	7	1					
126	Pilas.	2313	3764	7	1					
127	Pilas.	2402	3856	7	1					
128	Pilas.	2491	3948	7	1					
129	Pilas.	2580	4040	7	1					
130	Pilas.	2669	4132	7	1					
131	Pilas.	2758	4224	7	1					
132	Pilas.	3550	4236	4	3					
133	Pilas.	3560	4237	4	3					
134	Pilas.	3571	4238	4	2					
135	Pilas.	3660	4239	4	3					
136	Pilas.	3671	4240	4	3					
137	Pilas.	3682	4241	4	2					
138	Pilas.	3761	4242	7	1					
139	Pilas.	3764	4243	7	1					
140	Pilas.	3775	4244	4	2					
141	Pilas.	3856	4246	7	1					
142	Pilas.	3867	4247	4	2					
143	Pilas.	3948	4249	7	1					
144	Pilas.	3959	4250	4	2					
145	Pilas.	4040	4252	7	1					
146	Pilas.	4051	4253	4	2					
147	Pilas.	4132	4255	7	1					
148	Pilas.	4143	4256	4	2					
149	Pilas.	4224	4258	7	1					
150	Pilas.	4235	4259	4	2					
151	Pilas.	4236	4260	4	3					
152	Pilas.	4237	4261	4	3					
153	Pilas.	4238	4262	4	2					
154	Pilas.	4239	4263	4	3					
155	Pilas.	4240	4264	4	3					
156	Pilas.	4241	4265	4	2					
157	Pilas.	4242	4266	7	1					
158	Pilas.	4243	4267	7	1					
159	Pilas.	4244	4268	4	2					
160	Pilas.	4245	4269	7	1					
161	Pilas.	4246	4270	7	1					
162	Pilas.	4247	4271	4	2					
163	Pilas.	4248	4272	7	1					
164	Pilas.	4249	4273	7	1					
165	Pilas.	4250	4274	4	2					
166	Pilas.	4251	4275	7	1					
167	Pilas.	4252	4276	7	1					
168	Pilas.	4253	4277	4	2					
169	Pilas.	4254	4278	7	1					
170	Pilas.	4255	4279	7	1					
171	Pilas.	4256	4280	4	2					
172	Pilas.	4257	4281	7	1					
173	Pilas.	4258	4282	7	1					
174	Pilas.	4259	4283	4	2					
175	Trave	4260	4261	7	5		000011	000011		
176	Trave	4261	4262	7	5		000011	000011		
177	Trave	4263	4264	7	4		000011	000011		
178	Trave	4264	4265	7	4		000011	000011		
179	Trave	4266	4267	7	4		000011	000011		
180	Trave	4267	4268	7	4		000011	000011		
181	Trave	4269	4270	7	4		000011	000011		
182	Trave	4270	4271	7	4		000011	000011		
183	Trave	4272	4273	7	4		000011	000011		
184	Trave	4273	4274	7	4		000011	000011		
185	Trave	4275	4276	7	4		000011	000011		
186	Trave	4276	4277	7	4		000011	000011		
187	Trave	4278	4279	7	4		000011	000011		
188	Trave	4279	4280	7	4		000011	000011		
189	Trave	4281	4282	7	5		000011	000011		
190	Trave	4282	4283	7	5		000011	000011		

Numerazione elementi trave



2.11.3 VERIFICHE ELEMENTI TRAVE C.A.

LEGENDA TABELLA VERIFICHE ELEMENTI TRAVE C.A.

In tabella vengono riportati per ogni elemento il numero dello stesso ed il codice di verifica.

Nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite 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.

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).

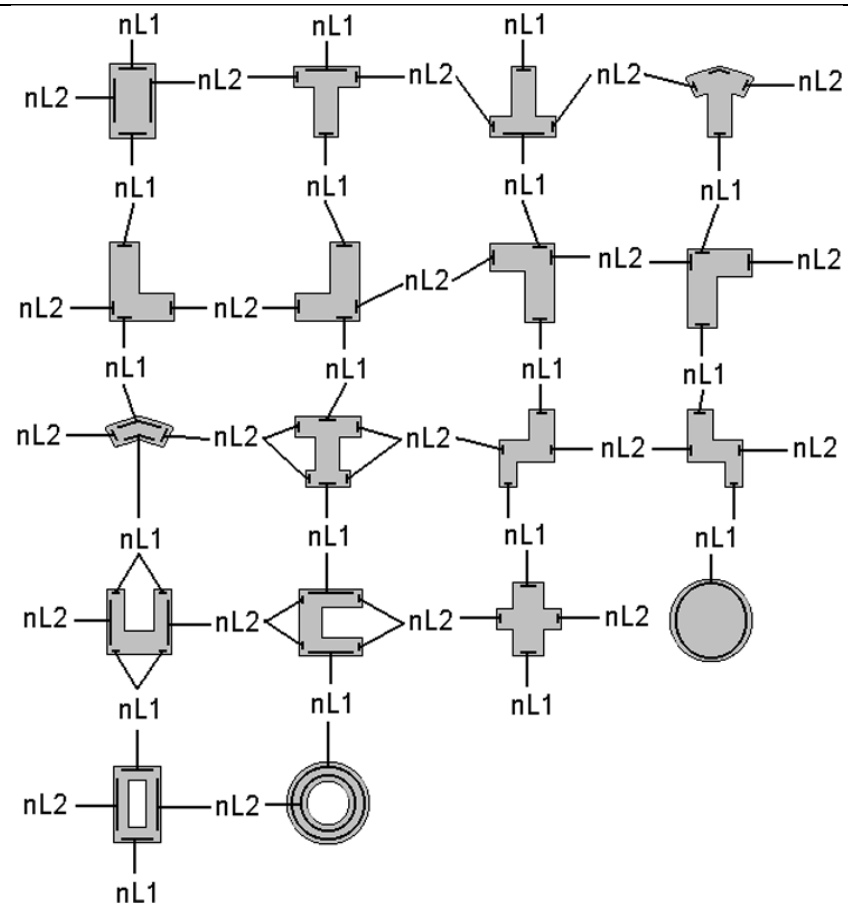
Per gli elementi tipo trave sono riportati infine le quantità di armatura inferiore e superiore.

I simboli utilizzati con il metodo degli stati limite assumono il seguente significato:

r. snell.	Rapporto λ su λ^*: valore superiore a 1 per elementi snelli, caso in cui viene effettuata la verifica con il metodo diretto dello stato di equilibrio
Verifica(verif.)	rapporto Sd/Su con sollecitazioni ultime proporzionali o a sforzo normale costante: valore minore o uguale a 1 per verifica positiva
ver.sis	rapporto Nd/Nu con Nu calcolato come al punto 7.4.4.2.2.1; valore minore o uguale a 1 per verifica positiva
ver.V/T	rapporto Sd/Su con sollecitazioni taglianti e torcenti proporzionali valore minore o uguale a 1 per verifica positiva
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)

Per gli elementi progettati secondo il criterio della gerarchia delle resistenze (pilastri e travi) si riporta una ulteriore tabella di seguito descritta:

M negativo i	Valore del momento resistente negativo (positivo) all' estremità iniziale i (finale f) della trave
V M-i M+f	Taglio generato dai momenti resistenti negativo i e positivo f (positivo i e negativo f)
V totale	Massimo valore assoluto ottenuto per combinazione del taglio isostatico e dei tagli concomitanti (p.to 7.4.4.1.1.)
Verif. V	Rapporto tra il taglio massimo e Vr1 (p.to 7.4.4.1.2.2);
Sovr. 2-2 i	Sovraresistenza del pilastro (come da formula 7.4.4). Rapporto tra i momenti resistenti delle travi e dei pilastri. Il valore del fattore rispettivamente per il momento 2-2 (3-3) alla base i ed alla sommità f del pilastro deve essere maggiore del gammaRd adottato
M 2-2 i	Valore del momento resistente rispettivamente per 2-2 (3-3) alla base i ed alla sommità f del pilastro (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	Valore del taglio generato dai momenti resistenti 2-2 (3-3)



schema della distribuzione delle armature longitudinali

TABELLA VERIFICHE ELEMENTI TRAVE C.A.

					M_P= 1	**X=150.0**	**Y=150.0**				
Pilas.	Note	Stato	Quota cm	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe L=cm	v V/T cls	v V/T acc	Rif. cmb
132	s=3,m=4	ok,ok	930.0	3.23	0.53	4d20 14+18 d20	0.99	0.103+3d10/10	L=70	0.26	0.17	49,27,49,51
			1135.0	1.80	0.53	4d20 6+10 d20	0.94	0.083+3d10/20	L=270	0.26	0.34	49,27,49,51
	[b=1.0;1.0]		1340.0	1.08	0.53	4d20 2+6 d20	0.56	0.073+3d10/10	L=70	0.26	0.17	28,27,49,51
151	s=3,m=4	ok,ok	1340.0	1.08	0.17	4d20 2+6 d20	0.57	0.063+3d10/10	L=70	0.25	0.16	28,27,49,51
			1420.0	1.08	0.17	4d20 2+6 d20	0.36	0.063+3d10/20	L=20	0.25	0.31	32,27,49,51
	[b=1.0;1.0]		1500.0	1.08	0.17	4d20 2+6 d20	0.40	0.053+3d10/10	L=70	0.25	0.16	35,27,49,51
					M_P= 2	**X=1065.0**	**Y=150.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
133	s=3,m=4	ok,ok	930.0	2.87	0.66	4d20 12+16 d20	0.91	0.153+3d10/10	L=70	0.21	0.14	48,43,48,28
			1135.0	1.44	0.66	4d20 4+8 d20	0.97	0.133+3d10/20	L=270	0.21	0.28	28,43,48,28
	[b=1.0;1.0]		1340.0	1.08	0.66	4d20 2+6 d20	0.51	0.123+3d10/10	L=70	0.21	0.14	28,43,48,28
152	s=3,m=4	ok,ok	1340.0	1.08	0.24	4d20 2+6 d20	0.51	0.113+3d10/10	L=70	0.19	0.13	28,43,48,28
			1420.0	1.08	0.24	4d20 2+6 d20	0.26	0.103+3d10/20	L=20	0.20	0.25	48,43,48,28
	[b=1.0;1.0]		1500.0	1.08	0.24	4d20 2+6 d20	0.07	0.103+3d10/10	L=70	0.20	0.13	43,43,48,28
					M_P= 3	**X=2050.0**	**Y=150.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
134	s=2,m=4	ok,ok	930.0	3.02	0.62	4d20 10+10 d20	0.90	0.143+3d10/12	L=75	0.20	0.10	32,41,32,44
			1135.0	1.51	0.62	4d20 4+4 d20	0.87	0.123+3d10/20	L=260	0.20	0.17	44,41,32,44
	[b=1.0;1.0]		1340.0	1.51	0.62	4d20 4+4 d20	0.36	0.103+3d10/12	L=75	0.20	0.10	48,41,32,44
153	s=2,m=4	ok,ok	1340.0	1.51	0.22	4d20 4+4 d20	0.36	0.103+3d10/12	L=50	0.17	0.09	51,39,32,32
			1420.0	1.51	0.22	4d20 4+4 d20	0.34	0.093+3d10/20	L=60	0.17	0.15	35,39,32,32
	[b=1.0;1.0]		1500.0	1.51	0.22	4d20 4+4 d20	0.38	0.083+3d10/12	L=50	0.18	0.09	35,39,32,32

M_P= 4 X=150.0 Y=660.0

Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
135	s=3,m=4	ok,ok	930.0	3.23	0.55	4d20 14+18 d20	0.93	0.133+3d10/10	L=70	0.25	0.17	48,27,31,51
			1135.0	1.80	0.55	4d20 6+10 d20	0.88	0.123+3d10/20	L=270	0.25	0.35	48,27,31,51
	[b=1.0;1.0]		1340.0	1.08	0.55	4d20 2+6 d20	0.55	0.113+3d10/10	L=70	0.25	0.17	28,27,31,51
154	s=3,m=4	ok,ok	1340.0	1.08	0.22	4d20 2+6 d20	0.56	0.103+3d10/10	L=70	0.24	0.16	28,27,31,51
			1420.0	1.08	0.22	4d20 2+6 d20	0.38	0.103+3d10/20	L=20	0.24	0.33	32,27,31,51
	[b=1.0;1.0]		1500.0	1.08	0.22	4d20 2+6 d20	0.49	0.093+3d10/10	L=70	0.24	0.16	35,27,31,51

M_P= 5 X=1065.0 Y=660.0

Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
136	s=3,m=4	ok,ok	930.0	2.51	0.54	4d20 10+14 d20	0.99	0.183+3d10/10	L=70	0.19	0.14	28,49,23,28
			1135.0	1.44	0.54	4d20 4+8 d20	0.94	0.183+3d10/20	L=270	0.19	0.28	28,49,23,28
	[b=1.0;1.0]		1340.0	1.08	0.54	4d20 2+6 d20	0.50	0.173+3d10/10	L=70	0.19	0.14	28,49,23,28
155	s=3,m=4	ok,ok	1340.0	1.08	0.16	4d20 2+6 d20	0.50	0.173+3d10/10	L=70	0.18	0.14	28,51,23,28
			1420.0	1.08	0.16	4d20 2+6 d20	0.25	0.173+3d10/20	L=20	0.18	0.27	28,51,23,28
	[b=1.0;1.0]		1500.0	1.08	0.16	4d20 2+6 d20	0.08	0.173+3d10/10	L=70	0.18	0.14	6,51,23,28

M_P= 6 X=2050.0 Y=660.0

Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
137	s=2,m=4	ok,ok	930.0	2.51	0.76	4d20 8+8 d20	0.99	0.193+3d10/12	L=75	0.19	0.11	32,25,32,32
			1135.0	1.51	0.76	4d20 4+4 d20	0.82	0.173+3d10/20	L=260	0.20	0.18	40,25,32,32
	[b=1.0;1.0]		1340.0	1.51	0.76	4d20 4+4 d20	0.38	0.163+3d10/12	L=75	0.20	0.11	51,25,32,32
156	s=2,m=4	ok,ok	1340.0	1.51	0.31	4d20 4+4 d20	0.37	0.153+3d10/12	L=50	0.17	0.10	51,23,32,32
			1420.0	1.51	0.31	4d20 4+4 d20	0.38	0.153+3d10/20	L=60	0.17	0.17	51,23,32,32
	[b=1.0;1.0]		1500.0	1.51	0.31	4d20 4+4 d20	0.45	0.143+3d10/12	L=50	0.17	0.10	35,23,32,32

M_P= 9 X=150.0 Y=1300.0

Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
59	s=1,m=7	ok,ok	0.0	1.20	1.29	4d20 6+6 d20	0.53	0.123+3d12/10	L=160	0.04	0.03	48,27,48,51
			465.0	1.20	1.29	4d20 6+6 d20	0.47	0.113+3d12/20	L=610	0.04	0.06	49,27,48,51
	[b=1.0;1.0]		930.0	1.20	1.29	4d20 6+6 d20	0.45	0.093+3d12/10	L=160	0.04	0.03	53,27,48,51
138	s=1,m=7	ok,ok	930.0	1.20	0.49	4d20 6+6 d20	0.40	0.083+3d12/10	L=70	0.04	0.03	53,28,50,52
			1135.0	1.20	0.49	4d20 6+6 d20	0.31	0.073+3d12/20	L=270	0.04	0.06	53,28,50,52
	[b=1.0;1.0]		1340.0	1.20	0.49	4d20 6+6 d20	0.27	0.063+3d12/10	L=70	0.04	0.03	45,28,50,52
157	s=1,m=7	ok,ok	1340.0	1.20	0.16	4d20 6+6 d20	0.27	0.063+3d12/10	L=70	0.05	0.04	44,27,50,52
			1420.0	1.20	0.16	4d20 6+6 d20	0.30	0.063+3d12/20	L=20	0.05	0.08	44,27,50,52
	[b=1.0;1.0]		1500.0	1.20	0.16	4d20 6+6 d20	0.33	0.063+3d12/10	L=70	0.05	0.04	44,27,50,52

M_P= 12 X=1065.0 Y=1300.0

Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
53	s=1,m=7	ok,ok	0.0	1.20	0.47	4d20 6+6 d20	0.33	0.123+3d12/10	L=100	0.09	0.06	35,30,35,51
			280.0	1.20	0.47	4d20 6+6 d20	0.09	0.123+3d12/20	L=360	0.09	0.12	48,30,35,51
	[b=1.0;1.0]		560.0	1.20	0.47	4d20 6+6 d20	0.34	0.123+3d12/10	L=100	0.09	0.06	51,30,35,51
126	s=1,m=7	ok,ok	560.0	1.20	0.21	4d20 6+6 d20	0.44	0.163+3d12/10	L=70	0.27	0.19	43,29,49,43
			745.0	1.20	0.21	4d20 6+6 d20	0.25	0.153+3d12/20	L=230	0.27	0.38	28,29,49,43
	[b=1.0;1.0]		930.0	1.20	0.21	4d20 6+6 d20	0.94	0.153+3d12/10	L=70	0.27	0.19	28,29,49,43
139	s=1,m=7	ok,ok	930.0	2.39	0.59	4d20 14+14 d20	0.94	0.123+3d12/10	L=70	0.17	0.13	43,30,49,43
			1135.0	1.20	0.59	4d20 6+6 d20	0.85	0.123+3d12/20	L=270	0.17	0.26	41,30,49,43
	[b=1.0;1.0]		1340.0	1.20	0.59	4d20 6+6 d20	0.37	0.113+3d12/10	L=70	0.17	0.13	29,30,49,43
158	s=1,m=7	ok,ok	1340.0	1.20	0.15	4d20 6+6 d20	0.37	0.113+3d12/10	L=70	0.17	0.13	29,30,49,43
			1420.0	1.20	0.15	4d20 6+6 d20	0.18	0.113+3d12/20	L=20	0.17	0.26	29,30,49,43
	[b=1.0;1.0]		1500.0	1.20	0.15	4d20 6+6 d20	0.32	0.113+3d12/10	L=70	0.17	0.13	51,30,49,43

M_P= 13 X=2050.0 Y=1300.0

Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
140	s=2,m=4	ok,ok	930.0	2.51	0.59	4d20 8+8 d20	0.96	0.203+3d10/12	L=75	0.19	0.12	32,23,32,44
			1135.0	1.51	0.59	4d20 4+4 d20	0.79	0.183+3d10/20	L=260	0.19	0.20	44,23,32,44
	[b=1.0;1.0]		1340.0	1.51	0.59	4d20 4+4 d20	0.30	0.163+3d10/12	L=75	0.20	0.12	49,23,32,44
159	s=2,m=4	ok,ok	1340.0	1.51	0.31	4d20 4+4 d20	0.31	0.163+3d10/12	L=50	0.17	0.11	49,28,32,44
			1420.0	1.51	0.31	4d20 4+4 d20	0.27	0.153+3d10/20	L=60	0.17	0.18	31,28,32,44
	[b=1.0;1.0]		1500.0	1.51	0.31	4d20 4+4 d20	0.37	0.153+3d10/12	L=50	0.17	0.11	36,28,32,44

M_P= 14 X=150.0 Y=1940.0

Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
121	s=1,m=7	ok,ok	0.0	1.20	1.93	4d20 6+6 d20	0.48	0.133+3d12/10	L=230	0.02	0.01	48,52,24,28
			670.0	1.20	1.93	4d20 6+6 d20	0.38	0.103+3d12/20	L=880	0.02	0.03	48,52,24,28
	[b=1.0;1.0]		1340.0	1.20	1.93	4d20 6+6 d20	0.35	0.073+3d12/10	L=230	0.02	0.01	44,52,24,28
160	s=1,m=7	ok,ok	1340.0	1.20	0.16	4d20 6+6 d20	0.24	0.063+3d12/10	L=70	0.03	0.02	44,51,50,45
			1420.0	1.20	0.16	4d20 6+6 d20	0.29	0.063+3d12/20	L=20	0.03	0.04	44,51,50,45
	[b=1.0;1.0]		1500.0	1.20	0.16	4d20 6+6 d20	0.33	0.063+3d12/10	L=70	0.03	0.02	44,51,50,45

M_P= 17 X=1065.0 Y=1940.0

Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
54	s=1,m=7	ok,ok	0.0	1.20	0.38	4d20 6+6 d20	0.49	0.113+3d12/10	L=100	0.09	0.05	28,29,31,51
			280.0	1.20	0.38	4d20 6+6 d20	0.11	0.103+3d12/20	L=360	0.09	0.10	28,29,31,51
	[b=1.0;1.0]		560.0	1.20	0.38	4d20 6+6 d20	0.31	0.103+3d12/10	L=100	0.09	0.05	31,29,31,51
127	s=1,m=7	ok,ok	560.0	1.20	0.20	4d20 6+6 d20	0.48	0.163+3d12/10	L=70	0.27	0.18	46,29,49,43
			745.0	1.20	0.20	4d20 6+6 d20	0.28	0.153+3d12/20	L=230	0.27	0.36	23,29,49,43
	[b=1.0;1.0]		930.0	1.50	0.20	4d20 8+8 d20	0.90	0.153+3d12/10	L=70	0.27	0.18	46,29,49,43
141	s=1,m=7	ok,ok	930.0	2.39	0.52	4d20 14+14 d20	0.94	0.123+3d12/10	L=70	0.17	0.13	43,29,41,43
			1135.0	1.20	0.52	4d20 6+6 d20	0.87	0.123+3d12/20	L=270	0.17	0.26	29,29,41,43
	[b=1.0;1.0]		1340.0	1.20	0.52	4d20 6+6 d20	0.40	0.113+3d12/10	L=70	0.17	0.13	29,29,41,43

161	s=1,m=7	ok,ok	1340.0	1.20	0.18	4d20 6+6 d20	0.41	0.113+3d12/10	L=70	0.17	0.13	29,28,49,43
			1420.0	1.20	0.18	4d20 6+6 d20	0.20	0.113+3d12/20	L=20	0.17	0.26	29,28,49,43
	[b=1.0;1.0]		1500.0	1.20	0.18	4d20 6+6 d20	0.30	0.113+3d12/10	L=70	0.17	0.13	51,28,49,43
					M_P= 18		**X=2050.0**	**Y=1940.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
142	s=2,m=4	ok,ok	930.0	2.51	0.88	4d20 8+8 d20	0.96	0.193+3d10/12	L=75	0.19	0.12	36,29,36,44
			1135.0	1.51	0.88	4d20 4+4 d20	0.79	0.183+3d10/20	L=260	0.19	0.20	29,29,36,44
	[b=1.0;1.0]		1340.0	1.51	0.88	4d20 4+4 d20	0.32	0.163+3d10/12	L=75	0.19	0.12	46,29,36,44
162	s=2,m=4	ok,ok	1340.0	1.51	0.31	4d20 4+4 d20	0.33	0.153+3d10/12	L=50	0.17	0.11	34,27,36,44
			1420.0	1.51	0.31	4d20 4+4 d20	0.29	0.153+3d10/20	L=60	0.17	0.18	31,27,36,44
	[b=1.0;1.0]		1500.0	1.51	0.31	4d20 4+4 d20	0.38	0.143+3d10/12	L=50	0.17	0.11	36,27,36,44
					M_P= 19		**X=150.0**	**Y=2580.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
122	s=1,m=7	ok,ok	0.0	1.20	1.90	4d20 6+6 d20	0.54	0.133+3d12/10	L=230	0.02	0.02	51,51,35,27
			670.0	1.20	1.90	4d20 6+6 d20	0.38	0.103+3d12/20	L=880	0.02	0.03	51,51,35,27
	[b=1.0;1.0]		1340.0	1.20	1.90	4d20 6+6 d20	0.35	0.073+3d12/10	L=230	0.02	0.02	44,51,35,27
163	s=1,m=7	ok,ok	1340.0	1.20	0.17	4d20 6+6 d20	0.25	0.063+3d12/10	L=70	0.03	0.02	44,51,53,44
			1420.0	1.20	0.17	4d20 6+6 d20	0.29	0.063+3d12/20	L=20	0.03	0.04	44,51,53,44
	[b=1.0;1.0]		1500.0	1.20	0.17	4d20 6+6 d20	0.34	0.063+3d12/10	L=70	0.03	0.02	44,51,53,44
					M_P= 22		**X=1065.0**	**Y=2580.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
55	s=1,m=7	ok,ok	0.0	1.20	0.28	4d20 6+6 d20	0.64	0.103+3d12/10	L=100	0.10	0.06	27,30,35,27
			280.0	1.20	0.28	4d20 6+6 d20	0.12	0.093+3d12/20	L=360	0.10	0.12	27,30,35,27
	[b=1.0;1.0]		560.0	1.20	0.28	4d20 6+6 d20	0.42	0.093+3d12/10	L=100	0.10	0.06	27,30,35,27
128	s=1,m=7	ok,ok	560.0	1.20	0.22	4d20 6+6 d20	0.50	0.163+3d12/10	L=70	0.28	0.18	43,30,54,30
			745.0	1.20	0.22	4d20 6+6 d20	0.31	0.153+3d12/20	L=230	0.29	0.36	27,30,54,30
	[b=1.0;1.0]		930.0	1.50	0.22	4d20 8+8 d20	0.95	0.153+3d12/10	L=70	0.29	0.18	27,30,54,30
143	s=1,m=7	ok,ok	930.0	2.69	0.48	4d20 16+16 d20	0.99	0.123+3d12/10	L=70	0.20	0.13	46,28,54,43
			1135.0	1.50	0.48	4d20 8+8 d20	0.89	0.123+3d12/20	L=270	0.20	0.26	30,28,54,43
	[b=1.0;1.0]		1340.0	1.20	0.48	4d20 6+6 d20	0.42	0.113+3d12/10	L=70	0.20	0.13	30,28,54,43
164	s=1,m=7	ok,ok	1340.0	1.20	0.22	4d20 6+6 d20	0.42	0.113+3d12/10	L=70	0.19	0.13	30,28,54,43
			1420.0	1.20	0.22	4d20 6+6 d20	0.23	0.113+3d12/20	L=20	0.19	0.25	38,28,54,43
	[b=1.0;1.0]		1500.0	1.20	0.22	4d20 6+6 d20	0.29	0.113+3d12/10	L=70	0.20	0.13	51,28,54,43
					M_P= 23		**X=2050.0**	**Y=2580.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
144	s=2,m=4	ok,ok	930.0	2.51	0.72	4d20 8+8 d20	0.95	0.193+3d10/12	L=75	0.19	0.12	32,30,32,44
			1135.0	1.51	0.72	4d20 4+4 d20	0.74	0.173+3d10/20	L=260	0.19	0.20	30,30,32,44
	[b=1.0;1.0]		1340.0	1.51	0.72	4d20 4+4 d20	0.36	0.163+3d10/12	L=75	0.19	0.12	38,30,32,44
165	s=2,m=4	ok,ok	1340.0	1.51	0.27	4d20 4+4 d20	0.37	0.153+3d10/12	L=50	0.17	0.11	38,29,33,44
			1420.0	1.51	0.27	4d20 4+4 d20	0.29	0.153+3d10/20	L=60	0.17	0.18	31,29,33,44
	[b=1.0;1.0]		1500.0	1.51	0.27	4d20 4+4 d20	0.38	0.143+3d10/12	L=50	0.17	0.11	36,29,33,44
					M_P= 24		**X=150.0**	**Y=3220.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
123	s=1,m=7	ok,ok	0.0	1.20	1.81	4d20 6+6 d20	0.56	0.133+3d12/10	L=230	0.03	0.02	47,54,35,27
			670.0	1.20	1.81	4d20 6+6 d20	0.38	0.103+3d12/20	L=880	0.03	0.03	43,54,35,27
	[b=1.0;1.0]		1340.0	1.20	1.81	4d20 6+6 d20	0.35	0.073+3d12/10	L=230	0.03	0.02	44,54,35,27
166	s=1,m=7	ok,ok	1340.0	1.20	0.17	4d20 6+6 d20	0.25	0.063+3d12/10	L=70	0.03	0.02	44,51,53,44
			1420.0	1.20	0.17	4d20 6+6 d20	0.29	0.063+3d12/20	L=20	0.03	0.04	44,51,53,44
	[b=1.0;1.0]		1500.0	1.20	0.17	4d20 6+6 d20	0.34	0.063+3d12/10	L=70	0.03	0.02	44,51,53,44
					M_P= 28		**X=1065.0**	**Y=3220.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
56	s=1,m=7	ok,ok	0.0	1.20	0.19	4d20 6+6 d20	0.71	0.103+3d12/10	L=100	0.10	0.06	27,30,35,35
			280.0	1.20	0.19	4d20 6+6 d20	0.14	0.093+3d12/20	L=360	0.10	0.12	27,30,35,35
	[b=1.0;1.0]		560.0	1.20	0.19	4d20 6+6 d20	0.45	0.093+3d12/10	L=100	0.10	0.06	35,30,35,35
129	s=1,m=7	ok,ok	560.0	1.20	0.23	4d20 6+6 d20	0.55	0.163+3d12/10	L=70	0.31	0.19	35,30,38,30
			745.0	1.20	0.23	4d20 6+6 d20	0.34	0.163+3d12/20	L=230	0.31	0.38	27,30,38,30
	[b=1.0;1.0]		930.0	1.80	0.23	4d20 10+10 d20	0.91	0.163+3d12/10	L=70	0.31	0.19	35,30,38,30
145	s=1,m=7	ok,ok	930.0	2.99	0.41	4d20 18+18 d20	1.00	0.123+3d12/10	L=70	0.22	0.13	38,27,38,46
			1135.0	1.50	0.41	4d20 8+8 d20	0.95	0.123+3d12/20	L=270	0.22	0.26	30,27,38,46
	[b=1.0;1.0]		1340.0	1.20	0.41	4d20 6+6 d20	0.45	0.123+3d12/10	L=70	0.22	0.13	30,27,38,46
167	s=1,m=7	ok,ok	1340.0	1.20	0.25	4d20 6+6 d20	0.45	0.113+3d12/10	L=70	0.21	0.13	30,27,38,46
			1420.0	1.20	0.25	4d20 6+6 d20	0.26	0.113+3d12/20	L=20	0.21	0.25	38,27,38,46
	[b=1.0;1.0]		1500.0	1.20	0.25	4d20 6+6 d20	0.29	0.113+3d12/10	L=70	0.21	0.13	43,27,38,46
					M_P= 29		**X=2050.0**	**Y=3220.0**				
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
146	s=2,m=4	ok,ok	930.0	3.02	0.94	4d20 10+10 d20	0.91	0.203+3d10/12	L=75	0.20	0.12	32,34,32,44
			1135.0	1.51	0.94	4d20 4+4 d20	0.79	0.183+3d10/20	L=260	0.20	0.19	30,34,32,44
	[b=1.0;1.0]		1340.0	1.51	0.94	4d20 4+4 d20	0.40	0.163+3d10/12	L=75	0.21	0.12	35,34,32,44
168	s=2,m=4	ok,ok	1340.0	1.51	0.31	4d20 4+4 d20	0.41	0.163+3d10/12	L=50	0.18	0.11	38,31,32,32
			1420.0	1.51	0.31	4d20 4+4 d20	0.31	0.153+3d10/20	L=60	0.18	0.18	31,31,32,32
	[b=1.0;1.0]		1500.0	1.51	0.31	4d20 4+4 d20	0.38	0.143+3d10/12	L=50	0.18	0.11	36,31,32,32

					M_P= 30	**X=150.0 Y=3860.0**						
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
124	s=1,m=7	ok,ok	0.0	1.20	1.91	4d20 6+6 d20	0.62	0.133+3d12/10	L=230	0.03	0.02	51,51,35,35
			670.0	1.20	1.91	4d20 6+6 d20	0.42	0.103+3d12/20	L=880	0.03	0.04	51,51,35,35
	[b=1.0;1.0]		1340.0	1.20	1.91	4d20 6+6 d20	0.35	0.073+3d12/10	L=230	0.03	0.02	44,51,35,35
169	s=1,m=7	ok,ok	1340.0	1.20	0.17	4d20 6+6 d20	0.24	0.063+3d12/10	L=70	0.03	0.02	44,51,53,44
			1420.0	1.20	0.17	4d20 6+6 d20	0.28	0.063+3d12/20	L=20	0.03	0.04	44,51,53,44
	[b=1.0;1.0]		1500.0	1.20	0.17	4d20 6+6 d20	0.33	0.063+3d12/10	L=70	0.03	0.02	44,51,53,44
					M_P= 34	**X=1065.0 Y=3860.0**						
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
57	s=1,m=7	ok,ok	0.0	1.20	0.22	4d20 6+6 d20	0.66	0.113+3d12/10	L=100	0.08	0.05	27,30,35,35
			280.0	1.20	0.22	4d20 6+6 d20	0.13	0.113+3d12/20	L=360	0.08	0.11	27,30,35,35
	[b=1.0;1.0]		560.0	1.20	0.22	4d20 6+6 d20	0.42	0.113+3d12/10	L=100	0.08	0.05	35,30,35,35
130	s=1,m=7	ok,ok	560.0	1.20	0.34	4d20 6+6 d20	0.65	0.173+3d12/10	L=70	0.34	0.21	35,38,38,38
			745.0	1.20	0.34	4d20 6+6 d20	0.41	0.173+3d12/20	L=230	0.34	0.42	35,38,38,38
	[b=1.0;1.0]		930.0	2.09	0.34	4d20 12+12 d20	0.96	0.163+3d12/10	L=70	0.34	0.21	35,38,38,38
147	s=1,m=7	ok,ok	930.0	3.44	0.48	4d20 20+22 d20	0.99	0.123+3d12/10	L=70	0.23	0.13	38,38,38,46
			1135.0	1.80	0.48	4d20 10+10 d20	0.92	0.123+3d12/20	L=270	0.23	0.26	38,38,38,46
	[b=1.0;1.0]		1340.0	1.20	0.48	4d20 6+6 d20	0.48	0.123+3d12/10	L=70	0.23	0.13	30,38,38,46
170	s=1,m=7	ok,ok	1340.0	1.20	0.21	4d20 6+6 d20	0.49	0.123+3d12/10	L=70	0.23	0.13	38,36,38,46
			1420.0	1.20	0.21	4d20 6+6 d20	0.28	0.113+3d12/20	L=20	0.23	0.25	38,36,38,46
	[b=1.0;1.0]		1500.0	1.20	0.21	4d20 6+6 d20	0.29	0.113+3d12/10	L=70	0.23	0.13	51,36,38,46
					M_P= 35	**X=2050.0 Y=3860.0**						
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
148	s=2,m=4	ok,ok	930.0	3.02	0.57	4d20 10+10 d20	0.99	0.213+3d10/12	L=75	0.22	0.13	32,45,32,38
			1135.0	1.51	0.57	4d20 4+4 d20	0.91	0.193+3d10/20	L=260	0.22	0.20	35,45,32,38
	[b=1.0;1.0]		1340.0	1.51	0.57	4d20 4+4 d20	0.46	0.173+3d10/12	L=75	0.22	0.13	35,45,32,38
171	s=2,m=4	ok,ok	1340.0	1.51	0.31	4d20 4+4 d20	0.46	0.173+3d10/12	L=50	0.20	0.11	38,43,32,38
			1420.0	1.51	0.31	4d20 4+4 d20	0.32	0.163+3d10/20	L=60	0.20	0.18	34,43,32,38
	[b=1.0;1.0]		1500.0	1.51	0.31	4d20 4+4 d20	0.38	0.153+3d10/12	L=50	0.20	0.11	36,43,32,38
					M_P= 38	**X=150.0 Y=4500.0**						
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
125	s=1,m=7	ok,ok	0.0	1.20	1.71	4d20 6+6 d20	0.71	0.113+3d12/10	L=230	0.03	0.02	35,53,35,35
			670.0	1.20	1.71	4d20 6+6 d20	0.39	0.083+3d12/20	L=880	0.03	0.04	39,53,35,35
	[b=1.0;1.0]		1340.0	1.20	1.71	4d20 6+6 d20	0.26	0.053+3d12/10	L=230	0.03	0.02	45,53,35,35
172	s=1,m=7	ok,ok	1340.0	1.20	0.14	4d20 6+6 d20	0.19	0.043+3d12/10	L=70	0.04	0.02	44,51,37,37
			1420.0	1.20	0.14	4d20 6+6 d20	0.23	0.043+3d12/20	L=20	0.04	0.04	44,51,37,37
	[b=1.0;1.0]		1500.0	1.20	0.14	4d20 6+6 d20	0.28	0.033+3d12/10	L=70	0.04	0.02	44,51,37,37
					M_P= 39	**X=1065.0 Y=4500.0**						
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
58	s=1,m=7	ok,ok	0.0	1.20	0.43	4d20 6+6 d20	0.35	0.103+3d12/10	L=100	0.05	0.03	35,30,35,35
			280.0	1.20	0.43	4d20 6+6 d20	0.06	0.093+3d12/20	L=360	0.05	0.07	27,30,35,35
	[b=1.0;1.0]		560.0	1.20	0.43	4d20 6+6 d20	0.26	0.083+3d12/10	L=100	0.05	0.03	35,30,35,35
131	s=1,m=7	ok,ok	560.0	1.20	0.22	4d20 6+6 d20	0.80	0.163+3d12/10	L=70	0.45	0.28	35,37,38,38
			745.0	1.20	0.22	4d20 6+6 d20	0.54	0.153+3d12/20	L=230	0.45	0.57	35,37,38,38
	[b=1.0;1.0]		930.0	2.99	0.22	4d20 18+18 d20	0.95	0.143+3d12/10	L=70	0.45	0.28	35,37,38,38
149	s=1,m=7	ok,ok	930.0	3.74	0.54	4d20 20+26 d20	0.99	0.103+3d12/10	L=70	0.25	0.14	38,37,38,38
			1135.0	2.09	0.54	4d20 12+12 d20	0.91	0.093+3d12/20	L=270	0.25	0.28	38,37,38,38
	[b=1.0;1.0]		1340.0	1.20	0.54	4d20 6+6 d20	0.56	0.083+3d12/10	L=70	0.25	0.14	35,37,38,38
173	s=1,m=7	ok,ok	1340.0	1.20	0.19	4d20 6+6 d20	0.57	0.083+3d12/10	L=70	0.23	0.13	38,35,38,38
			1420.0	1.20	0.19	4d20 6+6 d20	0.31	0.073+3d12/20	L=20	0.23	0.26	38,35,38,38
	[b=1.0;1.0]		1500.0	1.20	0.19	4d20 6+6 d20	0.26	0.073+3d12/10	L=70	0.24	0.13	51,35,38,38
					M_P= 40	**X=2050.0 Y=4500.0**						
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	verif.	ver.sis	Staffe	v V/T cls	v V/T acc	Rif. cmb
150	s=2,m=4	ok,ok	930.0	3.62	0.56	4d24 8+8 d24	0.99	0.163+3d10/12	L=75	0.23	0.15	35,46,32,38
			1135.0	2.01	0.56	4d20 6+6 d20	0.91	0.143+3d10/20	L=260	0.24	0.24	35,46,32,38
	[b=1.0;1.0]		1340.0	1.51	0.56	4d20 4+4 d20	0.52	0.123+3d10/12	L=75	0.24	0.15	35,46,32,38
174	s=2,m=4	ok,ok	1340.0	1.51	0.26	4d20 4+4 d20	0.51	0.113+3d10/12	L=50	0.21	0.13	38,46,32,38
			1420.0	1.51	0.26	4d20 4+4 d20	0.34	0.103+3d10/20	L=60	0.21	0.21	31,46,32,38
	[b=1.0;1.0]		1500.0	1.51	0.26	4d20 4+4 d20	0.34	0.103+3d10/12	L=50	0.21	0.13	36,46,32,38

	%Af	**r. snell.**	**verif.**	**ver.sis**	**v V/T cls**	**v V/T acc**
Max	3.74	1.93	1.00	0.21	0.45	0.57

								M_T= 54	Z=1500.0	P=1	P=3	
Trave	Note	Pos. cm	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe L=cm	Rif. cmb
175	ok,ok	0.0	0.33	18.6	18.6	0.0	0.08	0.05	0.40	0.20	4d10/12 L=70	28,35,54
	s=5,m=7	457.5	0.40	22.6	18.6	0.0	0.09	0.98	0.31	0.15	4d10/25 L=705	5,35,54
		915.0	0.33	18.6	18.6	0.0	0.08	0.05	0.40	0.20	4d10/12 L=70	28,35,54
176	ok,ok	0.0	0.33	18.6	18.6	0.0	0.08	0.03	0.37	0.20	4d10/12 L=70	28,35,54
	s=5,m=7	492.5	0.48	26.6	18.6	0.0	0.09	0.97	0.28	0.14	4d10/25 L=785	5,35,54
		985.0	0.33	18.6	18.6	0.0	0.08	0.03	0.37	0.20	4d10/12 L=70	28,35,54
								M_T= 55	**Z=1500.0**	**P=4**	**P=6**	
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
177	ok,ok	0.0	0.31	22.0	22.0	0.0	0.08	0.03	0.41	0.32	4d10/12 L=70	28,35,22
	s=4,m=7	457.5	0.63	44.0	22.0	0.0	0.11	0.98	0.29	0.14	4d10/20 L=705	5,35,54
		915.0	0.31	22.0	22.0	0.0	0.08	0.03	0.41	0.32	4d10/12 L=70	28,35,22
178	ok,ok	0.0	0.31	22.0	22.0	0.0	0.08	0.02	0.40	0.34	4d10/12 L=70	27,35,22
	s=4,m=7	492.5	0.75	52.8	22.0	0.0	0.12	0.95	0.27	0.13	4d10/20 L=785	5,35,54
		985.0	0.31	22.0	22.0	0.0	0.08	0.02	0.40	0.34	4d10/12 L=70	27,35,22
								M_T= 56	**Z=1500.0**	**P=9**	**P=13**	
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
179	ok,ok	0.0	0.31	22.0	22.0	0.0	0.08	0.02	0.45	0.34	4d10/12 L=70	30,44,22
	s=4,m=7	457.5	0.70	48.8	22.0	0.0	0.12	0.96	0.31	0.14	4d10/20 L=705	5,44,54
		915.0	0.31	22.0	22.0	0.0	0.08	0.02	0.45	0.34	4d10/12 L=70	30,44,22
180	ok,ok	0.0	0.32	22.6	22.0	0.0	0.08	0.02	0.38	0.37	4d10/12 L=70	45,36,22
	s=4,m=7	492.5	0.81	56.5	22.0	0.0	0.13	0.97	0.23	0.13	4d10/20 L=785	5,36,54
		985.0	0.32	22.6	22.0	0.0	0.08	0.02	0.38	0.37	4d10/12 L=70	53,36,22
								M_T= 57	**Z=1500.0**	**P=14**	**P=18**	
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
181	ok,ok	0.0	0.31	22.0	22.0	0.0	0.08	0.03	0.45	0.34	4d10/12 L=70	30,44,22
	s=4,m=7	457.5	0.70	48.8	22.0	0.0	0.12	0.96	0.31	0.14	4d10/20 L=705	5,44,54
		915.0	0.31	22.0	22.0	0.0	0.08	0.03	0.45	0.34	4d10/12 L=70	30,44,22
182	ok,ok	0.0	0.32	22.6	22.0	0.0	0.08	0.01	0.38	0.37	4d10/12 L=70	37,36,22
	s=4,m=7	492.5	0.81	56.5	22.0	0.0	0.13	0.97	0.23	0.13	4d10/20 L=785	7,36,54
		985.0	0.32	22.6	22.0	0.0	0.08	0.01	0.38	0.37	4d10/12 L=70	37,36,22
								M_T= 58	**Z=1500.0**	**P=19**	**P=23**	
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
183	ok,ok	0.0	0.31	22.0	22.0	0.0	0.08	0.03	0.45	0.34	4d10/12 L=70	38,44,22
	s=4,m=7	457.5	0.70	48.8	22.0	0.0	0.12	0.96	0.32	0.14	4d10/20 L=705	5,44,54
		915.0	0.31	22.0	22.0	0.0	0.08	0.03	0.45	0.34	4d10/12 L=70	38,44,22
184	ok,ok	0.0	0.32	22.6	22.0	0.0	0.08	0.01	0.38	0.37	4d10/12 L=70	29,36,22
	s=4,m=7	492.5	0.81	56.5	22.0	0.0	0.13	0.97	0.23	0.13	4d10/20 L=785	7,36,54
		985.0	0.32	22.6	22.0	0.0	0.08	0.01	0.38	0.37	4d10/12 L=70	29,36,22
								M_T= 59	**Z=1500.0**	**P=24**	**P=29**	
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
185	ok,ok	0.0	0.31	22.0	22.0	0.0	0.08	0.03	0.45	0.34	4d10/12 L=70	38,44,22
	s=4,m=7	457.5	0.70	48.8	22.0	0.0	0.12	0.96	0.32	0.14	4d10/20 L=705	5,44,54
		915.0	0.31	22.0	22.0	0.0	0.08	0.03	0.45	0.34	4d10/12 L=70	38,44,22
186	ok,ok	0.0	0.32	22.6	22.0	0.0	0.08	9.68e-03	0.38	0.37	4d10/12 L=70	29,36,22
	s=4,m=7	492.5	0.81	56.5	22.0	0.0	0.13	0.97	0.24	0.13	4d10/20 L=785	7,36,54
		985.0	0.32	22.6	22.0	0.0	0.08	9.57e-03	0.38	0.37	4d10/12 L=70	29,36,22
								M_T= 60	**Z=1500.0**	**P=30**	**P=35**	
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
187	ok,ok	0.0	0.31	22.0	22.0	0.0	0.08	0.04	0.45	0.34	4d10/12 L=70	38,44,22
	s=4,m=7	457.5	0.70	48.8	22.0	0.0	0.12	0.96	0.32	0.14	4d10/20 L=705	5,44,54
		915.0	0.31	22.0	22.0	0.0	0.08	0.04	0.45	0.34	4d10/12 L=70	38,44,22
188	ok,ok	0.0	0.32	22.6	22.0	0.0	0.08	8.16e-03	0.38	0.37	4d10/12 L=70	49,36,22
	s=4,m=7	492.5	0.81	56.5	22.0	0.0	0.13	0.97	0.24	0.13	4d10/20 L=785	5,36,54
		985.0	0.32	22.6	22.0	0.0	0.08	8.06e-03	0.38	0.37	4d10/12 L=70	49,36,22
								M_T= 61	**Z=1500.0**	**P=38**	**P=40**	
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
189	ok,ok	0.0	0.33	18.6	18.6	0.0	0.08	0.08	0.44	0.21	4d10/12 L=70	38,44,54
	s=5,m=7	457.5	0.48	26.6	18.6	0.0	0.09	0.98	0.34	0.15	4d10/25 L=705	5,44,54
		915.0	0.33	18.6	18.6	0.0	0.08	0.08	0.44	0.21	4d10/12 L=70	38,44,54
190	ok,ok	0.0	0.33	18.6	18.6	0.0	0.08	0.03	0.36	0.22	4d10/12 L=70	54,36,54
	s=5,m=7	492.5	0.56	31.4	18.6	0.0	0.10	0.97	0.26	0.14	4d10/25 L=785	5,36,54
		985.0	0.33	18.6	18.6	0.0	0.08	0.03	0.36	0.22	4d10/12 L=70	54,36,54

		%Af	**Af inf.**	**Af. sup**	**Af long.**	**x/d**	**V N/M**	**V V/T cls**	**V V/T acc**
Max		0.81	56.54	21.98	0.0	0.13	0.98	0.45	0.37

2.11.4 STATI LIMITE D' ESERCIZIO

LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

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

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

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

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

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

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

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

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

TABELLA STATI LIMITE D' ESERCIZIO

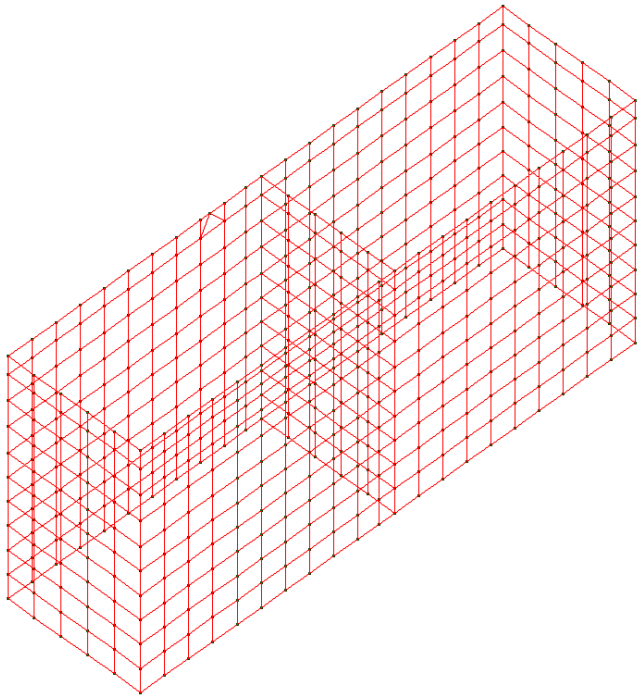
Pilas.	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb
53	0.0	0.13	0.13	0.0	97,97,0	280.0	0.06	0.06	0.0	97,100,0
	560.0	0.14	0.14	0.0	95,95,0					
54	0.0	0.13	0.14	0.0	99,96,0	280.0	0.05	0.05	0.0	100,100,0
	560.0	0.10	0.09	0.0	95,95,0					
55	0.0	0.13	0.20	0.0	99,96,0	280.0	0.04	0.04	0.0	97,100,0
	560.0	0.07	0.08	0.0	99,99,0					
56	0.0	0.14	0.24	0.0	96,96,0	280.0	0.04	0.04	0.0	97,100,0
	560.0	0.08	0.11	0.0	99,96,0					
57	0.0	0.13	0.16	0.0	96,96,0	280.0	0.04	0.04	0.0	100,100,0
	560.0	0.07	0.07	0.0	96,96,0					
58	0.0	0.06	0.06	0.0	96,96,0	280.0	0.03	0.03	0.0	98,98,0
	560.0	0.06	0.06	0.0	96,96,0					
59	0.0	0.10	0.11	0.0	98,98,0	465.0	0.08	0.09	0.0	100,100,0
	930.0	0.06	0.07	0.0	100,100,0					
121	0.0	0.11	0.11	0.0	96,96,0	670.0	0.07	0.08	0.0	99,99,0
	1340.0	0.04	0.04	0.0	99,99,0					
122	0.0	0.11	0.12	0.0	99,99,0	670.0	0.08	0.08	0.0	99,99,0
	1340.0	0.05	0.05	0.0	100,100,0					
123	0.0	0.11	0.12	0.0	100,100,0	670.0	0.07	0.08	0.0	99,99,0
	1340.0	0.04	0.04	0.0	100,100,0					
124	0.0	0.12	0.12	0.0	100,100,0	670.0	0.08	0.09	0.0	100,100,0
	1340.0	0.05	0.06	0.0	100,100,0					
125	0.0	0.14	0.14	0.0	97,97,0	670.0	0.08	0.08	0.0	97,97,0
	1340.0	0.03	0.03	0.0	100,100,0					
126	0.0	0.08	0.09	0.0	100,100,0	185.0	0.07	0.08	0.0	100,100,0
	370.0	0.11	0.11	0.0	100,100,0					
127	0.0	0.10	0.10	0.0	100,100,0	185.0	0.07	0.08	0.0	100,100,0
	370.0	0.12	0.13	0.0	100,100,0					
128	0.0	0.09	0.10	0.0	98,98,0	185.0	0.07	0.07	0.0	100,100,0
	370.0	0.11	0.11	0.0	100,100,0					
129	0.0	0.09	0.10	0.0	98,98,0	185.0	0.07	0.07	0.0	100,100,0
	370.0	0.11	0.11	0.0	98,98,0					
130	0.0	0.08	0.09	0.0	98,98,0	185.0	0.06	0.07	0.0	100,100,0
	370.0	0.09	0.09	0.0	98,98,0					
131	0.0	0.09	0.09	0.0	98,98,0	185.0	0.06	0.06	0.0	94,94,0
	370.0	0.08	0.08	0.0	98,98,0					
132	0.0	0.10	0.07	0.0	98,98,0	205.0	0.08	0.06	0.0	100,100,0
	410.0	0.05	0.04	0.0	100,100,0					
133	0.0	0.08	0.06	0.0	100,100,0	205.0	0.08	0.06	0.0	99,99,0
	410.0	0.06	0.05	0.0	99,99,0					
134	0.0	0.08	0.06	0.0	99,99,0	205.0	0.08	0.06	0.0	99,99,0
	410.0	0.08	0.06	0.0	92,92,0					
135	0.0	0.13	0.09	0.0	98,98,0	205.0	0.11	0.08	0.0	98,98,0
	410.0	0.06	0.05	0.0	100,100,0					
136	0.0	0.14	0.11	0.0	100,100,0	205.0	0.13	0.10	0.0	100,100,0
	410.0	0.11	0.09	0.0	98,98,0					
137	0.0	0.12	0.09	0.0	95,95,0	205.0	0.09	0.07	0.0	99,99,0
	410.0	0.08	0.06	0.0	100,100,0					
138	0.0	0.06	0.07	0.0	100,100,0	205.0	0.06	0.06	0.0	99,99,0
	410.0	0.05	0.05	0.0	99,99,0					
139	0.0	0.10	0.11	0.0	100,100,0	205.0	0.09	0.10	0.0	100,100,0
	410.0	0.07	0.07	0.0	100,100,0					
140	0.0	0.11	0.08	0.0	95,95,0	205.0	0.11	0.09	0.0	99,99,0
	410.0	0.11	0.09	0.0	100,100,0					
141	0.0	0.12	0.12	0.0	100,100,0	205.0	0.10	0.11	0.0	100,100,0
	410.0	0.08	0.08	0.0	100,100,0					
142	0.0	0.13	0.10	0.0	95,95,0	205.0	0.11	0.09	0.0	99,99,0
	410.0	0.10	0.07	0.0	98,98,0					
143	0.0	0.10	0.10	0.0	100,100,0	205.0	0.09	0.10	0.0	100,100,0
	410.0	0.07	0.08	0.0	100,100,0					
144	0.0	0.14	0.10	0.0	95,95,0	205.0	0.12	0.09	0.0	98,98,0
	410.0	0.12	0.09	0.0	98,98,0					
145	0.0	0.10	0.10	0.0	98,98,0	205.0	0.09	0.10	0.0	98,98,0
	410.0	0.08	0.08	0.0	100,100,0					
146	0.0	0.12	0.09	0.0	95,95,0	205.0	0.11	0.08	0.0	92,92,0
	410.0	0.09	0.07	0.0	98,98,0					
147	0.0	0.08	0.08	0.0	98,98,0	205.0	0.08	0.08	0.0	98,98,0
	410.0	0.07	0.07	0.0	100,100,0					
148	0.0	0.11	0.08	0.0	95,91,0	205.0	0.11	0.09	0.0	94,94,0
	410.0	0.11	0.09	0.0	98,98,0					

Pilas.	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb
149	0.0	0.06	0.07	0.0	98,98,0	205.0	0.06	0.06	0.0	98,98,0
	410.0	0.05	0.06	0.0	92,92,0					
150	0.0	0.10	0.07	0.0	93,93,0	205.0	0.08	0.06	0.0	93,93,0
	410.0	0.06	0.05	0.0	98,98,0					
151	0.0	0.04	0.03	0.0	97,99,0	80.0	0.04	0.03	0.0	98,98,0
	160.0	0.04	0.03	0.0	98,98,0					
152	0.0	0.06	0.05	0.0	100,100,0	80.0	0.06	0.04	0.0	100,100,0
	160.0	0.05	0.04	0.0	98,98,0					
153	0.0	0.06	0.04	0.0	100,100,0	80.0	0.05	0.04	0.0	98,98,0
	160.0	0.05	0.04	0.0	98,98,0					
154	0.0	0.06	0.05	0.0	100,100,0	80.0	0.06	0.05	0.0	98,98,0
	160.0	0.06	0.05	0.0	98,98,0					
155	0.0	0.09	0.08	0.0	98,98,0	80.0	0.09	0.07	0.0	100,100,0
	160.0	0.09	0.07	0.0	99,99,0					
156	0.0	0.08	0.06	0.0	98,98,0	80.0	0.08	0.06	0.0	98,98,0
	160.0	0.08	0.06	0.0	98,98,0					
157	0.0	0.03	0.04	0.0	93,93,0	80.0	0.03	0.04	0.0	99,99,0
	160.0	0.03	0.04	0.0	99,99,0					
158	0.0	0.06	0.07	0.0	100,100,0	80.0	0.06	0.07	0.0	99,99,0
	160.0	0.07	0.07	0.0	100,100,0					
159	0.0	0.09	0.07	0.0	98,98,0	80.0	0.09	0.07	0.0	98,98,0
	160.0	0.09	0.07	0.0	98,98,0					
160	0.0	0.04	0.04	0.0	99,99,0	80.0	0.03	0.04	0.0	99,99,0
	160.0	0.03	0.03	0.0	99,99,0					
161	0.0	0.07	0.08	0.0	100,100,0	80.0	0.07	0.07	0.0	100,100,0
	160.0	0.06	0.07	0.0	98,98,0					
162	0.0	0.09	0.07	0.0	98,98,0	80.0	0.09	0.07	0.0	98,98,0
	160.0	0.08	0.07	0.0	98,98,0					
163	0.0	0.04	0.04	0.0	100,91,0	80.0	0.03	0.04	0.0	91,91,0
	160.0	0.03	0.03	0.0	99,99,0					
164	0.0	0.07	0.07	0.0	100,100,0	80.0	0.06	0.07	0.0	100,100,0
	160.0	0.06	0.07	0.0	98,98,0					
165	0.0	0.08	0.07	0.0	91,91,0	80.0	0.08	0.06	0.0	98,98,0
	160.0	0.08	0.07	0.0	98,98,0					
166	0.0	0.04	0.04	0.0	91,91,0	80.0	0.03	0.04	0.0	91,91,0
	160.0	0.03	0.03	0.0	91,91,0					
167	0.0	0.07	0.08	0.0	100,100,0	80.0	0.06	0.07	0.0	100,100,0
	160.0	0.06	0.07	0.0	98,98,0					
168	0.0	0.08	0.07	0.0	98,98,0	80.0	0.08	0.06	0.0	98,98,0
	160.0	0.08	0.06	0.0	98,98,0					
169	0.0	0.04	0.04	0.0	100,100,0	80.0	0.03	0.04	0.0	91,91,0
	160.0	0.03	0.03	0.0	99,99,0					
170	0.0	0.06	0.07	0.0	100,100,0	80.0	0.06	0.07	0.0	100,100,0
	160.0	0.06	0.07	0.0	98,98,0					
171	0.0	0.08	0.07	0.0	99,99,0	80.0	0.08	0.06	0.0	98,98,0
	160.0	0.08	0.06	0.0	98,98,0					
172	0.0	0.03	0.03	0.0	97,100,0	80.0	0.02	0.02	0.0	91,91,0
	160.0	0.02	0.02	0.0	93,93,0					
173	0.0	0.04	0.05	0.0	92,92,0	80.0	0.04	0.04	0.0	98,98,0
	160.0	0.04	0.04	0.0	98,98,0					
174	0.0	0.05	0.04	0.0	98,98,0	80.0	0.05	0.04	0.0	98,98,0
	160.0	0.05	0.04	0.0	98,98,0					
		rRfck	**rRfyk**	**rPfck**			**rRfck**	**rRfyk**	**rPfck**	
Max		0.14	0.24	0.0						

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	cm					mm	mm	mm		cm	cm	cm	
175	0.0	2.13e-04	9.56e-04	0.0	90,97,0	0.0	0.0	0.0	0,0,0	-2.24	0.0	0.0	99,0,0
	457.5	0.28	0.84	0.0	94,91,0	0.26	0.0	0.0	91,0,0				
	915.0	2.13e-04	9.56e-04	0.0	90,97,0	0.0	0.0	0.0	0,0,0				
176	0.0	2.09e-04	1.24e-03	0.0	99,95,0	0.0	0.0	0.0	0,0,0	-2.45	0.0	0.0	99,0,0
	492.5	0.31	0.83	0.0	99,91,0	0.28	0.0	0.0	91,0,0				
	985.0	2.09e-04	1.24e-03	0.0	99,95,0	0.0	0.0	0.0	0,0,0				
177	0.0	0.0	2.60e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0	-2.52	0.0	0.0	99,0,0
	457.5	0.37	0.83	0.0	94,91,0	0.31	0.0	0.0	91,0,0				
	915.0	0.0	2.60e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0				
178	0.0	0.0	2.33e-03	0.0	0,95,0	0.0	0.0	0.0	0,0,0	-3.19	0.0	0.0	99,0,0
	492.5	0.40	0.81	0.0	99,98,0	0.28	0.0	0.0	98,0,0				
	985.0	0.0	2.33e-03	0.0	0,95,0	0.0	0.0	0.0	0,0,0				
179	0.0	3.43e-05	2.04e-03	0.0	98,96,0	0.0	0.0	0.0	0,0,0	-2.65	0.0	0.0	100,0,0
	457.5	0.38	0.81	0.0	98,91,0	0.28	0.0	0.0	91,0,0				
	915.0	3.43e-05	2.04e-03	0.0	98,96,0	0.0	0.0	0.0	0,0,0				
180	0.0	8.61e-05	8.31e-04	0.0	99,93,0	0.0	0.0	0.0	0,0,0	-3.35	0.0	0.0	100,0,0
	492.5	0.42	0.82	0.0	99,93,0	0.31	0.0	0.0	93,0,0				
	985.0	8.61e-05	8.31e-04	0.0	99,93,0	0.0	0.0	0.0	0,0,0				
181	0.0	0.0	3.05e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0	-2.65	0.0	0.0	100,0,0
	457.5	0.38	0.82	0.0	94,100,0	0.29	0.0	0.0	100,0,0				
	915.0	0.0	3.05e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0				
182	0.0	6.42e-05	4.56e-04	0.0	97,93,0	0.0	0.0	0.0	0,0,0	-3.35	0.0	0.0	100,0,0
	492.5	0.42	0.82	0.0	100,93,0	0.31	0.0	0.0	93,0,0				
	985.0	6.42e-05	4.56e-04	0.0	97,93,0	0.0	0.0	0.0	0,0,0				
183	0.0	0.0	3.68e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0	-2.65	0.0	0.0	100,0,0
	457.5	0.38	0.82	0.0	94,91,0	0.29	0.0	0.0	91,0,0				
	915.0	0.0	3.68e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0				
184	0.0	1.65e-04	3.40e-04	0.0	100,93,0	0.0	0.0	0.0	0,0,0	-3.35	0.0	0.0	100,0,0
	492.5	0.42	0.82	0.0	100,93,0	0.31	0.0	0.0	93,0,0				
	985.0	1.65e-04	3.40e-04	0.0	100,93,0	0.0	0.0	0.0	0,0,0				
185	0.0	0.0	3.66e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0	-2.65	0.0	0.0	100,0,0
	457.5	0.38	0.82	0.0	94,100,0	0.29	0.0	0.0	100,0,0				
	915.0	0.0	3.66e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0				
186	0.0	4.92e-05	3.58e-04	0.0	100,93,0	0.0	0.0	0.0	0,0,0	-3.35	0.0	0.0	100,0,0
	492.5	0.42	0.82	0.0	100,93,0	0.31	0.0	0.0	93,0,0				
	985.0	4.92e-05	3.58e-04	0.0	100,93,0	0.0	0.0	0.0	0,0,0				
187	0.0	0.0	3.38e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0	-2.65	0.0	0.0	100,0,0
	457.5	0.38	0.82	0.0	94,91,0	0.29	0.0	0.0	91,0,0				
	915.0	0.0	3.38e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0				
188	0.0	1.18e-04	6.25e-04	0.0	100,93,0	0.0	0.0	0.0	0,0,0	-3.35	0.0	0.0	100,0,0
	492.5	0.42	0.82	0.0	100,93,0	0.31	0.0	0.0	93,0,0				
	985.0	1.18e-04	6.25e-04	0.0	100,93,0	0.0	0.0	0.0	0,0,0				
189	0.0	0.0	3.51e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0	-2.05	0.0	0.0	100,0,0
	457.5	0.31	0.83	0.0	94,91,0	0.28	0.0	0.0	91,0,0				
	915.0	0.0	3.51e-03	0.0	0,97,0	0.0	0.0	0.0	0,0,0				
190	0.0	1.53e-05	1.20e-03	0.0	98,96,0	0.0	0.0	0.0	0,0,0	-3.21	0.0	0.0	100,0,0
	492.5	0.34	0.82	0.0	98,91,0	0.31	0.0	0.0	91,0,0				
	985.0	1.53e-05	1.20e-03	0.0	98,96,0	0.0	0.0	0.0	0,0,0				
		rRfck	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**		**dR**	**dF**	**dP**	
Max		0.42	0.84	0.0		0.31	0.0	0.0		-2.05	0.0	0.0	

2.12 PARETI VASCHE ACCUMULO

Le pareti delle vasche hanno spessore 50 cm.



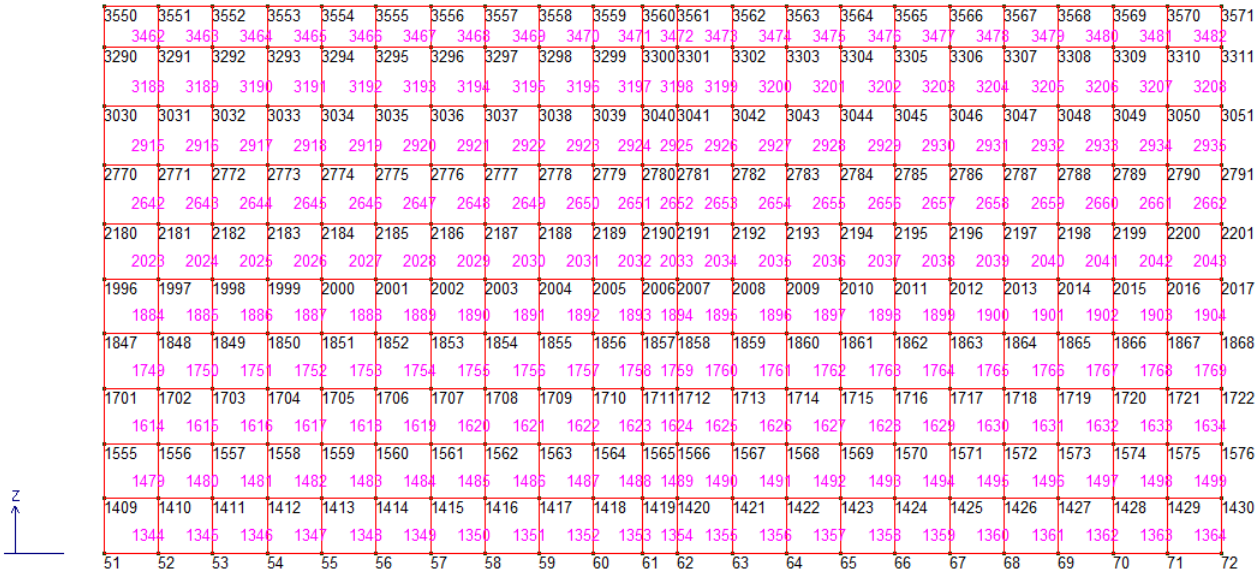
2.12.1 MODELLAZIONE STRUTTURA: NODI

TABELLA DATI NODI

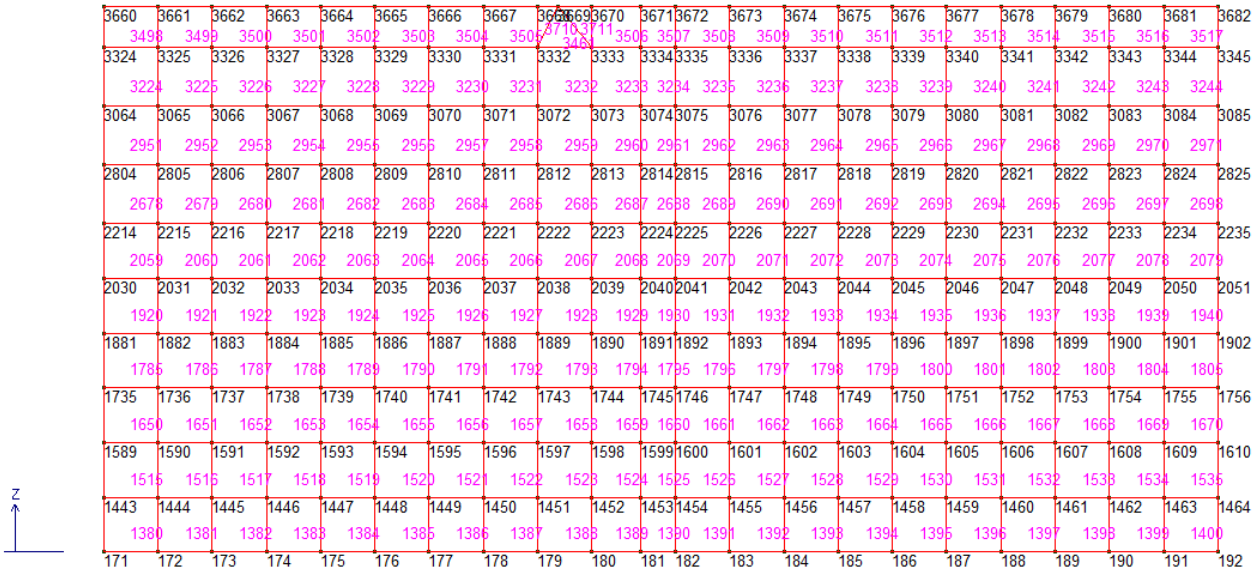
Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
51	150.0	150.0	0.0	52	242.5	150.0	0.0	53	335.0	150.0	0.0
54	427.5	150.0	0.0	55	520.0	150.0	0.0	56	612.5	150.0	0.0
57	705.0	150.0	0.0	58	797.5	150.0	0.0	59	890.0	150.0	0.0
60	982.5	150.0	0.0	61	1065.0	150.0	0.0	62	1125.0	150.0	0.0
63	1217.5	150.0	0.0	64	1310.0	150.0	0.0	65	1402.5	150.0	0.0
66	1495.0	150.0	0.0	67	1587.5	150.0	0.0	68	1680.0	150.0	0.0
69	1772.5	150.0	0.0	70	1865.0	150.0	0.0	71	1957.5	150.0	0.0
72	2050.0	150.0	0.0	75	150.0	252.0	0.0	86	1125.0	252.0	0.0
96	2050.0	252.0	0.0	99	150.0	354.0	0.0	110	1125.0	354.0	0.0
120	2050.0	354.0	0.0	123	150.0	456.0	0.0	134	1125.0	456.0	0.0
144	2050.0	456.0	0.0	147	150.0	558.0	0.0	158	1125.0	558.0	0.0
168	2050.0	558.0	0.0	171	150.0	660.0	0.0	172	242.5	660.0	0.0
173	335.0	660.0	0.0	174	427.5	660.0	0.0	175	520.0	660.0	0.0
176	612.5	660.0	0.0	177	705.0	660.0	0.0	178	797.5	660.0	0.0
179	890.0	660.0	0.0	180	982.5	660.0	0.0	181	1065.0	660.0	0.0
182	1125.0	660.0	0.0	183	1217.5	660.0	0.0	184	1310.0	660.0	0.0
185	1402.5	660.0	0.0	186	1495.0	660.0	0.0	187	1587.5	660.0	0.0
188	1680.0	660.0	0.0	189	1772.5	660.0	0.0	190	1865.0	660.0	0.0
191	1957.5	660.0	0.0	192	2050.0	660.0	0.0	1409	150.0	150.0	93.3
1410	242.5	150.0	93.3	1411	335.0	150.0	93.3	1412	427.5	150.0	93.3
1413	520.0	150.0	93.3	1414	612.5	150.0	93.3	1415	705.0	150.0	93.3
1416	797.5	150.0	93.3	1417	890.0	150.0	93.3	1418	982.5	150.0	93.3
1419	1065.0	150.0	93.3	1420	1125.0	150.0	93.3	1421	1217.5	150.0	93.3
1422	1310.0	150.0	93.3	1423	1402.5	150.0	93.3	1424	1495.0	150.0	93.3
1425	1587.5	150.0	93.3	1426	1680.0	150.0	93.3	1427	1772.5	150.0	93.3
1428	1865.0	150.0	93.3	1429	1957.5	150.0	93.3	1430	2050.0	150.0	93.3
1431	150.0	252.0	93.3	1432	1125.0	252.0	93.3	1433	2050.0	252.0	93.3
1434	150.0	354.0	93.3	1435	1125.0	354.0	93.3	1436	2050.0	354.0	93.3
1437	150.0	456.0	93.3	1438	1125.0	456.0	93.3	1439	2050.0	456.0	93.3

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1440	150.0	558.0	93.3	1441	1125.0	558.0	93.3	1442	2050.0	558.0	93.3
1443	150.0	660.0	93.3	1444	242.5	660.0	93.3	1445	335.0	660.0	93.3
1446	427.5	660.0	93.3	1447	520.0	660.0	93.3	1448	612.5	660.0	93.3
1449	705.0	660.0	93.3	1450	797.5	660.0	93.3	1451	890.0	660.0	93.3
1452	982.5	660.0	93.3	1453	1065.0	660.0	93.3	1454	1125.0	660.0	93.3
1455	1217.5	660.0	93.3	1456	1310.0	660.0	93.3	1457	1402.5	660.0	93.3
1458	1495.0	660.0	93.3	1459	1587.5	660.0	93.3	1460	1680.0	660.0	93.3
1461	1772.5	660.0	93.3	1462	1865.0	660.0	93.3	1463	1957.5	660.0	93.3
1464	2050.0	660.0	93.3	1555	150.0	150.0	186.7	1556	242.5	150.0	186.7
1557	335.0	150.0	186.7	1558	427.5	150.0	186.7	1559	520.0	150.0	186.7
1560	612.5	150.0	186.7	1561	705.0	150.0	186.7	1562	797.5	150.0	186.7
1563	890.0	150.0	186.7	1564	982.5	150.0	186.7	1565	1065.0	150.0	186.7
1566	1125.0	150.0	186.7	1567	1217.5	150.0	186.7	1568	1310.0	150.0	186.7
1569	1402.5	150.0	186.7	1570	1495.0	150.0	186.7	1571	1587.5	150.0	186.7
1572	1680.0	150.0	186.7	1573	1772.5	150.0	186.7	1574	1865.0	150.0	186.7
1575	1957.5	150.0	186.7	1576	2050.0	150.0	186.7	1577	150.0	252.0	186.7
1578	1125.0	252.0	186.7	1579	2050.0	252.0	186.7	1580	150.0	354.0	186.7
1581	1125.0	354.0	186.7	1582	2050.0	354.0	186.7	1583	150.0	456.0	186.7
1584	1125.0	456.0	186.7	1585	2050.0	456.0	186.7	1586	150.0	558.0	186.7
1587	1125.0	558.0	186.7	1588	2050.0	558.0	186.7	1589	150.0	660.0	186.7
1590	242.5	660.0	186.7	1591	335.0	660.0	186.7	1592	427.5	660.0	186.7
1593	520.0	660.0	186.7	1594	612.5	660.0	186.7	1595	705.0	660.0	186.7
1596	797.5	660.0	186.7	1597	890.0	660.0	186.7	1598	982.5	660.0	186.7
1599	1065.0	660.0	186.7	1600	1125.0	660.0	186.7	1601	1217.5	660.0	186.7
1602	1310.0	660.0	186.7	1603	1402.5	660.0	186.7	1604	1495.0	660.0	186.7
1605	1587.5	660.0	186.7	1606	1680.0	660.0	186.7	1607	1772.5	660.0	186.7
1608	1865.0	660.0	186.7	1609	1957.5	660.0	186.7	1610	2050.0	660.0	186.7
1701	150.0	150.0	280.0	1702	242.5	150.0	280.0	1703	335.0	150.0	280.0
1704	427.5	150.0	280.0	1705	520.0	150.0	280.0	1706	612.5	150.0	280.0
1707	705.0	150.0	280.0	1708	797.5	150.0	280.0	1709	890.0	150.0	280.0
1710	982.5	150.0	280.0	1711	1065.0	150.0	280.0	1712	1125.0	150.0	280.0
1713	1217.5	150.0	280.0	1714	1310.0	150.0	280.0	1715	1402.5	150.0	280.0
1716	1495.0	150.0	280.0	1717	1587.5	150.0	280.0	1718	1680.0	150.0	280.0
1719	1772.5	150.0	280.0	1720	1865.0	150.0	280.0	1721	1957.5	150.0	280.0
1722	2050.0	150.0	280.0	1723	150.0	252.0	280.0	1724	1125.0	252.0	280.0
1725	2050.0	252.0	280.0	1726	150.0	354.0	280.0	1727	1125.0	354.0	280.0
1728	2050.0	354.0	280.0	1729	150.0	456.0	280.0	1730	1125.0	456.0	280.0
1731	2050.0	456.0	280.0	1732	150.0	558.0	280.0	1733	1125.0	558.0	280.0
1734	2050.0	558.0	280.0	1735	150.0	660.0	280.0	1736	242.5	660.0	280.0
1737	335.0	660.0	280.0	1738	427.5	660.0	280.0	1739	520.0	660.0	280.0
1740	612.5	660.0	280.0	1741	705.0	660.0	280.0	1742	797.5	660.0	280.0
1743	890.0	660.0	280.0	1744	982.5	660.0	280.0	1745	1065.0	660.0	280.0
1746	1125.0	660.0	280.0	1747	1217.5	660.0	280.0	1748	1310.0	660.0	280.0
1749	1402.5	660.0	280.0	1750	1495.0	660.0	280.0	1751	1587.5	660.0	280.0
1752	1680.0	660.0	280.0	1753	1772.5	660.0	280.0	1754	1865.0	660.0	280.0
1755	1957.5	660.0	280.0	1756	2050.0	660.0	280.0	1847	150.0	150.0	373.3
1848	242.5	150.0	373.3	1849	335.0	150.0	373.3	1850	427.5	150.0	373.3
1851	520.0	150.0	373.3	1852	612.5	150.0	373.3	1853	705.0	150.0	373.3
1854	797.5	150.0	373.3	1855	890.0	150.0	373.3	1856	982.5	150.0	373.3
1857	1065.0	150.0	373.3	1858	1125.0	150.0	373.3	1859	1217.5	150.0	373.3
1860	1310.0	150.0	373.3	1861	1402.5	150.0	373.3	1862	1495.0	150.0	373.3
1863	1587.5	150.0	373.3	1864	1680.0	150.0	373.3	1865	1772.5	150.0	373.3
1866	1865.0	150.0	373.3	1867	1957.5	150.0	373.3	1868	2050.0	150.0	373.3
1869	150.0	252.0	373.3	1870	1125.0	252.0	373.3	1871	2050.0	252.0	373.3
1872	150.0	354.0	373.3	1873	1125.0	354.0	373.3	1874	2050.0	354.0	373.3
1875	150.0	456.0	373.3	1876	1125.0	456.0	373.3	1877	2050.0	456.0	373.3
1878	150.0	558.0	373.3	1879	1125.0	558.0	373.3	1880	2050.0	558.0	373.3
1881	150.0	660.0	373.3	1882	242.5	660.0	373.3	1883	335.0	660.0	373.3
1884	427.5	660.0	373.3	1885	520.0	660.0	373.3	1886	612.5	660.0	373.3
1887	705.0	660.0	373.3	1888	797.5	660.0	373.3	1889	890.0	660.0	373.3
1890	982.5	660.0	373.3	1891	1065.0	660.0	373.3	1892	1125.0	660.0	373.3
1893	1217.5	660.0	373.3	1894	1310.0	660.0	373.3	1895	1402.5	660.0	373.3
1896	1495.0	660.0	373.3	1897	1587.5	660.0	373.3	1898	1680.0	660.0	373.3
1899	1772.5	660.0	373.3	1900	1865.0	660.0	373.3	1901	1957.5	660.0	373.3
1902	2050.0	660.0	373.3	1996	150.0	150.0	466.7	1997	242.5	150.0	466.7
1998	335.0	150.0	466.7	1999	427.5	150.0	466.7	2000	520.0	150.0	466.7
2001	612.5	150.0	466.7	2002	705.0	150.0	466.7	2003	797.5	150.0	466.7
2004	890.0	150.0	466.7	2005	982.5	150.0	466.7	2006	1065.0	150.0	466.7
2007	1125.0	150.0	466.7	2008	1217.5	150.0	466.7	2009	1310.0	150.0	466.7
2010	1402.5	150.0	466.7	2011	1495.0	150.0	466.7	2012	1587.5	150.0	466.7
…											
3681	1957.5	660.0	930.0	3682	2050.0	660.0	930.0				

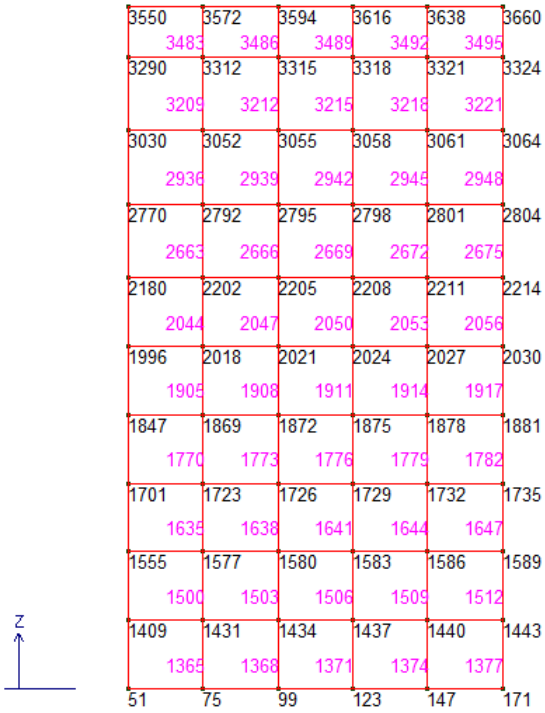
Numerazione nodi ed elementi parete anteriore vasche



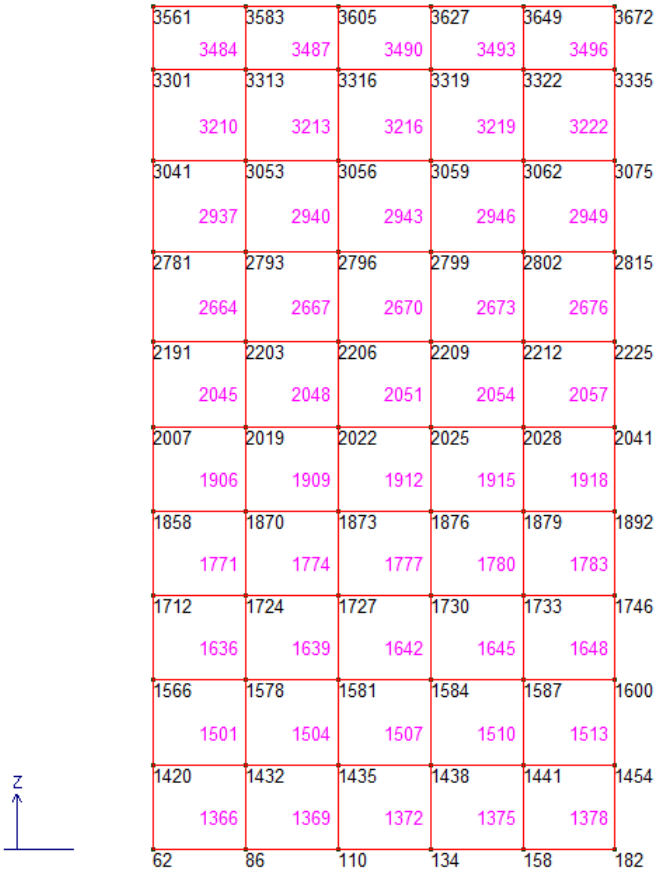
Numerazione nodi ed elementi parete posteriore vasche



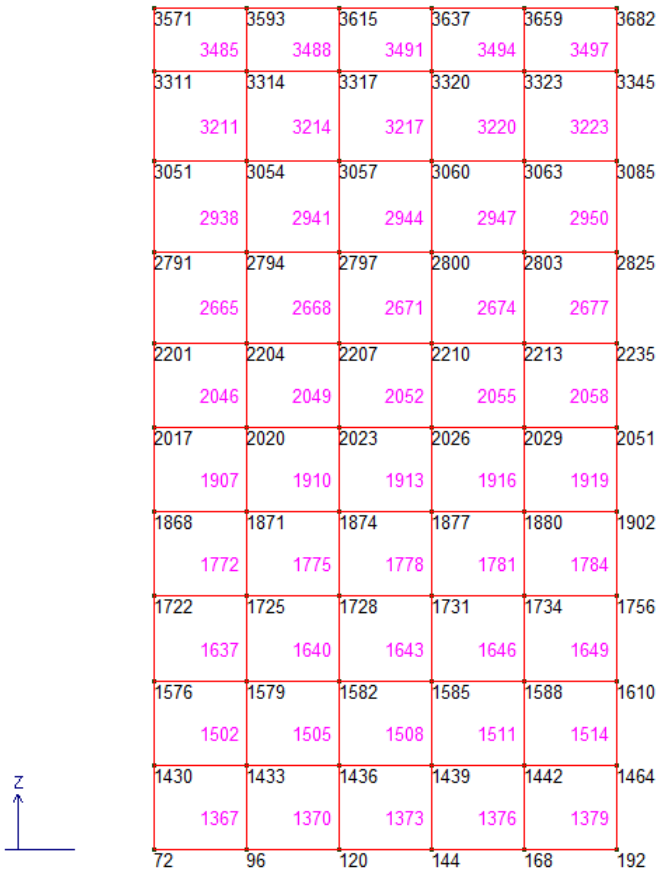
Numerazione nodi ed elementi parete sinistra



Numerazione nodi ed elementi parete centrale



Numerazione nodi ed elementi parete destra



2.12.2 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

TABELLA DATI SHELL

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
1344	Setto	1409	1410	52	51	4	50.0		
1345	Setto	1410	1411	53	52	4	50.0		
1346	Setto	1411	1412	54	53	4	50.0		
1347	Setto	1412	1413	55	54	4	50.0		
1348	Setto	1413	1414	56	55	4	50.0		
1349	Setto	1414	1415	57	56	4	50.0		
1350	Setto	1415	1416	58	57	4	50.0		
1351	Setto	1416	1417	59	58	4	50.0		
1352	Setto	1417	1418	60	59	4	50.0		
1353	Setto	1418	1419	61	60	4	50.0		
1354	Setto	1419	1420	62	61	4	50.0		
1355	Setto	1420	1421	63	62	4	50.0		
1356	Setto	1421	1422	64	63	4	50.0		
1357	Setto	1422	1423	65	64	4	50.0		
1358	Setto	1423	1424	66	65	4	50.0		
1359	Setto	1424	1425	67	66	4	50.0		
1360	Setto	1425	1426	68	67	4	50.0		
1361	Setto	1426	1427	69	68	4	50.0		
1362	Setto	1427	1428	70	69	4	50.0		
1363	Setto	1428	1429	71	70	4	50.0		
1364	Setto	1429	1430	72	71	4	50.0		
1365	Setto	51	75	1431	1409	4	50.0		
1366	Setto	62	86	1432	1420	4	50.0		
1367	Setto	72	96	1433	1430	4	50.0		
1368	Setto	75	99	1434	1431	4	50.0		
1369	Setto	86	110	1435	1432	4	50.0		
1370	Setto	96	120	1436	1433	4	50.0		
1371	Setto	99	123	1437	1434	4	50.0		
1372	Setto	110	134	1438	1435	4	50.0		
1373	Setto	120	144	1439	1436	4	50.0		
1374	Setto	123	147	1440	1437	4	50.0		
1375	Setto	134	158	1441	1438	4	50.0		
1376	Setto	144	168	1442	1439	4	50.0		
1377	Setto	147	171	1443	1440	4	50.0		
1378	Setto	158	182	1454	1441	4	50.0		
1379	Setto	168	192	1464	1442	4	50.0		
1380	Setto	1443	1444	172	171	4	50.0		
1381	Setto	1444	1445	173	172	4	50.0		
1382	Setto	1445	1446	174	173	4	50.0		
1383	Setto	1446	1447	175	174	4	50.0		
1384	Setto	1447	1448	176	175	4	50.0		
1385	Setto	1448	1449	177	176	4	50.0		
1386	Setto	1449	1450	178	177	4	50.0		
1387	Setto	1450	1451	179	178	4	50.0		
1388	Setto	1451	1452	180	179	4	50.0		
1389	Setto	1452	1453	181	180	4	50.0		
1390	Setto	1453	1454	182	181	4	50.0		
1391	Setto	1454	1455	183	182	4	50.0		
1392	Setto	1455	1456	184	183	4	50.0		
1393	Setto	1456	1457	185	184	4	50.0		
1394	Setto	1457	1458	186	185	4	50.0		
1395	Setto	1458	1459	187	186	4	50.0		
1396	Setto	1459	1460	188	187	4	50.0		
1397	Setto	1460	1461	189	188	4	50.0		
1398	Setto	1461	1462	190	189	4	50.0		
1399	Setto	1462	1463	191	190	4	50.0		
1400	Setto	1463	1464	192	191	4	50.0		
1479	Setto	1555	1556	1410	1409	4	50.0		
1480	Setto	1556	1557	1411	1410	4	50.0		
1481	Setto	1557	1558	1412	1411	4	50.0		
1482	Setto	1558	1559	1413	1412	4	50.0		
1483	Setto	1559	1560	1414	1413	4	50.0		
1484	Setto	1560	1561	1415	1414	4	50.0		
1485	Setto	1561	1562	1416	1415	4	50.0		
1486	Setto	1562	1563	1417	1416	4	50.0		
1487	Setto	1563	1564	1418	1417	4	50.0		

1488	Setto	1564	1565	1419	1418	4	50.0		
Elem.	**Note**	**Nodo I**	**Nodo J**	**Nodo K**	**Nodo L**	**Mat.**	**Spessore**	**Wink V**	**Wink O**
							cm	daN/cm3	daN/cm3
1489	Setto	1565	1566	1420	1419	4	50.0		
1490	Setto	1566	1567	1421	1420	4	50.0		
1491	Setto	1567	1568	1422	1421	4	50.0		
1492	Setto	1568	1569	1423	1422	4	50.0		
1493	Setto	1569	1570	1424	1423	4	50.0		
1494	Setto	1570	1571	1425	1424	4	50.0		
1495	Setto	1571	1572	1426	1425	4	50.0		
1496	Setto	1572	1573	1427	1426	4	50.0		
1497	Setto	1573	1574	1428	1427	4	50.0		
1498	Setto	1574	1575	1429	1428	4	50.0		
1499	Setto	1575	1576	1430	1429	4	50.0		
1500	Setto	1409	1431	1577	1555	4	50.0		
1501	Setto	1420	1432	1578	1566	4	50.0		
1502	Setto	1430	1433	1579	1576	4	50.0		
1503	Setto	1431	1434	1580	1577	4	50.0		
1504	Setto	1432	1435	1581	1578	4	50.0		
1505	Setto	1433	1436	1582	1579	4	50.0		
1506	Setto	1434	1437	1583	1580	4	50.0		
1507	Setto	1435	1438	1584	1581	4	50.0		
1508	Setto	1436	1439	1585	1582	4	50.0		
1509	Setto	1437	1440	1586	1583	4	50.0		
1510	Setto	1438	1441	1587	1584	4	50.0		
1511	Setto	1439	1442	1588	1585	4	50.0		
1512	Setto	1440	1443	1589	1586	4	50.0		
1513	Setto	1441	1454	1600	1587	4	50.0		
1514	Setto	1442	1464	1610	1588	4	50.0		
1515	Setto	1589	1590	1444	1443	4	50.0		
1516	Setto	1590	1591	1445	1444	4	50.0		
1517	Setto	1591	1592	1446	1445	4	50.0		
1518	Setto	1592	1593	1447	1446	4	50.0		
1519	Setto	1593	1594	1448	1447	4	50.0		
1520	Setto	1594	1595	1449	1448	4	50.0		
1521	Setto	1595	1596	1450	1449	4	50.0		
1522	Setto	1596	1597	1451	1450	4	50.0		
1523	Setto	1597	1598	1452	1451	4	50.0		
1524	Setto	1598	1599	1453	1452	4	50.0		
1525	Setto	1599	1600	1454	1453	4	50.0		
1526	Setto	1600	1601	1455	1454	4	50.0		
1527	Setto	1601	1602	1456	1455	4	50.0		
1528	Setto	1602	1603	1457	1456	4	50.0		
1529	Setto	1603	1604	1458	1457	4	50.0		
1530	Setto	1604	1605	1459	1458	4	50.0		
1531	Setto	1605	1606	1460	1459	4	50.0		
1532	Setto	1606	1607	1461	1460	4	50.0		
1533	Setto	1607	1608	1462	1461	4	50.0		
1534	Setto	1608	1609	1463	1462	4	50.0		
1535	Setto	1609	1610	1464	1463	4	50.0		
1614	Setto	1701	1702	1556	1555	4	50.0		
1615	Setto	1702	1703	1557	1556	4	50.0		
1616	Setto	1703	1704	1558	1557	4	50.0		
1617	Setto	1704	1705	1559	1558	4	50.0		
1618	Setto	1705	1706	1560	1559	4	50.0		
1619	Setto	1706	1707	1561	1560	4	50.0		
1620	Setto	1707	1708	1562	1561	4	50.0		
1621	Setto	1708	1709	1563	1562	4	50.0		
1622	Setto	1709	1710	1564	1563	4	50.0		
1623	Setto	1710	1711	1565	1564	4	50.0		
1624	Setto	1711	1712	1566	1565	4	50.0		
1625	Setto	1712	1713	1567	1566	4	50.0		
1626	Setto	1713	1714	1568	1567	4	50.0		
1627	Setto	1714	1715	1569	1568	4	50.0		
1628	Setto	1715	1716	1570	1569	4	50.0		
1629	Setto	1716	1717	1571	1570	4	50.0		
1630	Setto	1717	1718	1572	1571	4	50.0		
1631	Setto	1718	1719	1573	1572	4	50.0		
1632	Setto	1719	1720	1574	1573	4	50.0		
1633	Setto	1720	1721	1575	1574	4	50.0		
1634	Setto	1721	1722	1576	1575	4	50.0		
1635	Setto	1555	1577	1723	1701	4	50.0		
1636	Setto	1566	1578	1724	1712	4	50.0		
1637	Setto	1576	1579	1725	1722	4	50.0		
1638	Setto	1577	1580	1726	1723	4	50.0		
1639	Setto	1578	1581	1727	1724	4	50.0		

1640	Setto	1579	1582	1728	1725	4	50.0		
Elem.	**Note**	**Nodo I**	**Nodo J**	**Nodo K**	**Nodo L**	**Mat.**	**Spessore**	**Wink V**	**Wink O**
							cm	daN/cm3	daN/cm3
1641	Setto	1580	1583	1729	1726	4	50.0		
1642	Setto	1581	1584	1730	1727	4	50.0		
1643	Setto	1582	1585	1731	1728	4	50.0		
1644	Setto	1583	1586	1732	1729	4	50.0		
1645	Setto	1584	1587	1733	1730	4	50.0		
1646	Setto	1585	1588	1734	1731	4	50.0		
1647	Setto	1586	1589	1735	1732	4	50.0		
1648	Setto	1587	1600	1746	1733	4	50.0		
1649	Setto	1588	1610	1756	1734	4	50.0		
1650	Setto	1735	1736	1590	1589	4	50.0		
1651	Setto	1736	1737	1591	1590	4	50.0		
1652	Setto	1737	1738	1592	1591	4	50.0		
1653	Setto	1738	1739	1593	1592	4	50.0		
1654	Setto	1739	1740	1594	1593	4	50.0		
1655	Setto	1740	1741	1595	1594	4	50.0		
1656	Setto	1741	1742	1596	1595	4	50.0		
1657	Setto	1742	1743	1597	1596	4	50.0		
1658	Setto	1743	1744	1598	1597	4	50.0		
1659	Setto	1744	1745	1599	1598	4	50.0		
1660	Setto	1745	1746	1600	1599	4	50.0		
1661	Setto	1746	1747	1601	1600	4	50.0		
1662	Setto	1747	1748	1602	1601	4	50.0		
1663	Setto	1748	1749	1603	1602	4	50.0		
1664	Setto	1749	1750	1604	1603	4	50.0		
1665	Setto	1750	1751	1605	1604	4	50.0		
1666	Setto	1751	1752	1606	1605	4	50.0		
1667	Setto	1752	1753	1607	1606	4	50.0		
1668	Setto	1753	1754	1608	1607	4	50.0		
1669	Setto	1754	1755	1609	1608	4	50.0		
1670	Setto	1755	1756	1610	1609	4	50.0		
1749	Setto	1847	1848	1702	1701	4	50.0		
1750	Setto	1848	1849	1703	1702	4	50.0		
1751	Setto	1849	1850	1704	1703	4	50.0		
1752	Setto	1850	1851	1705	1704	4	50.0		
1753	Setto	1851	1852	1706	1705	4	50.0		
1754	Setto	1852	1853	1707	1706	4	50.0		
1755	Setto	1853	1854	1708	1707	4	50.0		
1756	Setto	1854	1855	1709	1708	4	50.0		
1757	Setto	1855	1856	1710	1709	4	50.0		
1758	Setto	1856	1857	1711	1710	4	50.0		
1759	Setto	1857	1858	1712	1711	4	50.0		
1760	Setto	1858	1859	1713	1712	4	50.0		
1761	Setto	1859	1860	1714	1713	4	50.0		
1762	Setto	1860	1861	1715	1714	4	50.0		
1763	Setto	1861	1862	1716	1715	4	50.0		
1764	Setto	1862	1863	1717	1716	4	50.0		
1765	Setto	1863	1864	1718	1717	4	50.0		
1766	Setto	1864	1865	1719	1718	4	50.0		
1767	Setto	1865	1866	1720	1719	4	50.0		
1768	Setto	1866	1867	1721	1720	4	50.0		
1769	Setto	1867	1868	1722	1721	4	50.0		
1770	Setto	1701	1723	1869	1847	4	50.0		
1771	Setto	1712	1724	1870	1858	4	50.0		
1772	Setto	1722	1725	1871	1868	4	50.0		
1773	Setto	1723	1726	1872	1869	4	50.0		
1774	Setto	1724	1727	1873	1870	4	50.0		
1775	Setto	1725	1728	1874	1871	4	50.0		
1776	Setto	1726	1729	1875	1872	4	50.0		
1777	Setto	1727	1730	1876	1873	4	50.0		
1778	Setto	1728	1731	1877	1874	4	50.0		
1779	Setto	1729	1732	1878	1875	4	50.0		
1780	Setto	1730	1733	1879	1876	4	50.0		
…									
3711	Setto	3669	3670	3333		4	50.0		

2.12.3 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

TABELLA VERIFICHE ELEMENTI PARETE IN C.A.

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok 51	0.08	0.2	8.76e-02	10.1	10.1	5.7	5.7	-646.5	-168.5	-107.4	5384.6	1447.4	259.7
2	ok 52	0.08	0.9	2.33e-02	10.1	10.4	5.7	6.0	37.4	30.0	-79.9	7149.9	1984.9	928.3
2	ok 53	0.09	1.0	2.45e-02	10.1	16.8	5.7	7.2	-174.9	-41.2	54.1	-315.3	-85.9	220.2
2	ok 54	0.11	1.0	3.00e-02	10.1	22.4	5.7	7.5	-225.7	-62.7	57.3	-863.8	-217.4	154.3
2	ok 55	0.12	1.0	3.39e-02	10.1	25.6	5.7	7.7	-253.9	-81.0	-22.1	-1252.0	-295.7	81.3
2	ok 56	0.12	1.0	3.73e-02	10.1	26.2	5.7	7.6	-291.7	-98.7	57.4	-1580.6	-357.6	-23.6
2	ok 57	0.11	1.0	4.06e-02	10.1	24.3	5.7	7.4	-312.0	-113.5	-41.4	-1861.3	-404.6	-102.6
2	ok 58	0.10	1.0	4.34e-02	10.1	20.1	5.7	7.0	-333.9	-125.1	-55.8	-2002.2	-411.1	-193.2
2	ok 59	0.09	1.0	4.64e-02	10.1	14.0	5.7	6.8	-340.5	-128.6	-74.2	-1815.2	-324.0	-256.3
2	ok 60	0.08	0.8	4.63e-02	10.1	10.1	5.7	5.7	-316.7	-118.7	22.5	-957.0	-47.3	-234.6
2	ok 61	0.08	0.4	4.35e-02	10.1	10.1	5.7	5.7	-152.8	-92.1	141.7	4799.8	1617.1	-1035.4
2	ok 62	0.08	0.2	4.33e-02	10.1	10.1	5.7	5.7	-135.9	-110.7	44.8	1441.5	1024.0	-319.4
2	ok 63	0.08	0.6	6.27e-02	10.1	10.1	5.7	5.7	-348.9	-162.4	204.1	-1038.7	20.5	153.6
2	ok 64	0.08	1.0	6.71e-02	10.1	11.4	5.7	7.0	-409.0	-192.9	188.8	-2077.1	-316.1	279.4
2	ok 65	0.09	1.0	6.86e-02	10.1	15.9	5.7	8.4	-449.5	-209.8	171.7	-2424.0	-462.5	254.3
2	ok 66	0.10	1.0	6.84e-02	10.1	19.2	5.7	8.4	-468.2	-214.8	10.8	-2357.8	-486.9	192.4
2	ok 67	0.10	1.0	6.83e-02	10.1	20.1	5.7	8.3	-485.6	-213.9	-8.4	-2137.5	-466.3	79.3
2	ok 68	0.10	1.0	6.85e-02	10.1	18.6	5.7	7.7	-503.2	-208.0	121.8	-1794.0	-409.9	-80.1
2	ok 69	0.09	1.0	7.02e-02	10.1	14.6	5.7	6.8	-461.0	-121.5	62.9	2.010e+04	3793.0	-874.5
2	ok 70	0.08	0.9	7.15e-02	10.1	10.1	5.7	5.7	-487.8	-145.8	160.8	1.452e+04	2750.3	-1120.9
2	ok 71	0.08	0.5	5.92e-02	10.1	10.1	5.7	5.7	-434.1	-139.8	85.2	8016.5	2000.1	-1195.2
2	ok 72	0.08	0.3	3.89e-02	10.1	10.1	5.7	5.7	-265.3	-100.5	-72.5	4516.3	1339.2	264.0
2	ok 1409	0.08	0.9	5.09e-02	10.1	11.5	5.7	7.6	-264.6	93.4	52.3	1584.3	6268.7	953.8
2	ok 1410	0.08	0.9	3.50e-02	10.1	10.1	5.7	5.7	-145.7	-18.1	-172.4	2364.0	1772.4	4328.1
2	ok 1411	0.08	0.9	2.64e-02	10.1	10.1	5.7	5.7	-96.5	33.6	-129.6	2827.9	100.8	4411.2
2	ok 1412	0.08	0.8	3.15e-02	10.1	10.1	5.7	5.7	-82.1	60.3	-97.3	4156.3	-365.8	3070.9
2	ok 1413	0.08	0.7	3.53e-02	10.1	10.1	5.7	5.7	-237.5	-56.6	37.8	-705.8	-307.3	-91.9
2	ok 1414	0.08	0.5	3.84e-02	10.1	10.1	5.7	5.7	-282.7	-71.8	57.2	-888.2	-329.4	-200.4
2	ok 1415	0.08	0.5	4.09e-02	10.1	10.1	5.7	5.7	-306.8	-79.9	48.7	-959.4	-309.7	-316.9
2	ok 1416	0.08	0.5	4.24e-02	10.1	10.1	5.7	5.7	-323.5	-84.1	35.2	-891.5	-202.1	-361.9
2	ok 1417	0.08	0.7	4.28e-02	10.1	10.1	5.7	5.7	-324.0	-86.0	15.5	-628.8	54.4	-248.0
2	ok 1418	0.08	0.6	4.13e-02	10.1	10.1	5.7	5.7	-131.6	-0.8	193.7	2301.5	292.6	-5833.0
2	ok 1419	0.08	0.7	4.59e-02	10.1	10.1	5.7	5.7	-162.6	-23.2	212.8	1391.7	3251.5	-4712.2
2	ok 1420	0.08	0.9	5.08e-02	10.1	11.8	5.7	7.8	-189.1	-39.1	258.2	1806.9	6502.8	-2305.3
2	ok 1421	0.08	0.9	5.67e-02	10.1	10.8	5.7	6.4	-294.3	-135.7	161.3	-82.2	1070.7	-474.2
2	ok 1422	0.08	0.8	6.15e-02	10.1	10.1	5.7	5.7	-379.5	-133.1	96.3	-582.9	266.7	163.5
2	ok 1423	0.08	0.6	6.34e-02	10.1	10.1	5.7	5.7	-424.1	-139.3	69.8	-981.7	-126.9	409.3
2	ok 1424	0.08	0.5	6.39e-02	10.1	10.1	5.7	5.7	-448.3	-140.9	43.3	-1138.9	-322.0	415.3
2	ok 1425	0.08	0.3	6.38e-02	10.1	10.1	5.7	5.7	-464.2	-133.8	17.3	-1107.3	-393.9	296.1
2	ok 1426	0.08	0.3	6.34e-02	10.1	10.1	5.7	5.7	-460.9	-112.6	29.7	-898.3	-400.1	152.1
2	ok 1427	0.08	0.5	6.29e-02	10.1	10.1	5.7	5.7	-420.5	19.7	112.0	3830.7	-900.9	-3593.6
2	ok 1428	0.08	0.7	5.91e-02	10.1	10.1	5.7	5.7	-443.0	66.9	84.1	2568.1	-253.0	-5338.0
2	ok 1429	0.08	0.8	5.09e-02	10.1	10.1	5.7	5.7	-372.6	117.4	-12.0	1992.3	2037.0	-5265.1
2	ok 1430	0.08	0.9	3.08e-02	10.1	12.7	5.7	9.0	-104.7	170.5	-192.3	1794.9	7630.9	-748.9
2	ok 1555	0.09	1.0	1.80e-02	10.1	12.9	5.7	14.4	-54.3	207.9	38.5	2102.1	1.181e+04	617.0
2	ok 1556	0.08	0.9	2.24e-02	10.1	10.9	5.7	6.5	-113.7	152.0	-100.1	-404.6	2896.2	3782.6
2	ok 1557	0.08	0.9	2.48e-02	11.2	10.1	6.8	5.7	-108.3	105.7	-113.6	-2115.8	-1551.1	4287.3
2	ok 1558	0.08	0.9	2.86e-02	11.0	10.1	6.7	5.7	-76.3	83.8	60.2	-6261.3	-6535.0	5829.9
2	ok 1559	0.08	0.9	3.19e-02	10.1	10.1	6.1	5.7	-90.5	69.9	69.0	-7126.7	-7514.2	3174.0
2	ok 1560	0.08	0.9	3.43e-02	10.7	10.1	6.6	5.7	-256.5	-49.9	45.2	-308.2	-319.6	-245.1
2	ok 1561	0.08	0.9	3.60e-02	12.1	10.1	7.7	5.7	-276.4	-55.3	32.7	-268.5	-218.6	-274.5
2	ok 1562	0.09	0.9	3.69e-02	13.0	10.1	8.6	5.7	-125.0	42.4	145.0	-6701.2	-6457.0	-5704.1
2	ok 1563	0.08	0.9	3.69e-02	12.5	10.1	8.1	5.7	-115.5	43.4	170.3	-3845.8	-3654.3	-5608.1
2	ok 1564	0.08	0.8	3.86e-02	10.1	10.1	5.7	5.7	-182.0	46.1	174.0	-1752.4	1382.4	-5303.0
2	ok 1565	0.08	0.9	4.33e-02	10.1	10.1	5.7	7.4	-179.0	45.7	219.6	539.2	6642.2	-4592.5
2	ok 1566	0.09	1.0	4.89e-02	10.1	12.4	5.7	15.9	-196.8	42.1	280.6	2827.6	1.502e+04	-2273.2
2	ok 1567	0.08	0.9	4.95e-02	10.1	11.6	5.7	7.2	-297.3	-120.0	149.5	321.8	1940.9	-673.8
2	ok 1568	0.08	0.7	5.34e-02	10.1	10.1	5.7	5.7	-345.6	-103.6	120.6	174.9	960.5	-98.4
2	ok 1569	0.08	0.8	5.49e-02	10.1	10.1	5.7	5.7	-366.0	-93.9	113.5	-57.5	276.0	199.5
2	ok 1570	0.08	0.9	5.52e-02	10.1	10.1	5.7	5.7	-404.4	-87.2	66.4	-208.6	-142.4	321.9
2	ok 1571	0.08	0.9	5.51e-02	10.3	10.1	6.5	5.7	-318.2	60.7	128.7	-7564.3	-7999.0	401.9
2	ok 1572	0.08	0.9	5.46e-02	11.2	10.1	7.6	5.7	-343.2	85.5	101.8	-7348.8	-7886.9	-2611.8
2	ok 1573	0.08	0.9	5.36e-02	12.1	10.1	8.1	5.7	-392.0	123.5	63.7	-4399.6	-4529.1	-3821.5
2	ok 1574	0.08	0.9	5.06e-02	11.6	10.1	7.2	5.7	-372.2	173.5	-5.0	-2841.9	-2194.7	-4978.9
2	ok 1575	0.08	0.8	4.28e-02	10.1	11.4	5.7	7.0	-272.5	221.4	-98.1	-477.5	3034.8	-4951.4

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok 1576	0.09	1.0	2.72e-02	10.1	13.7	5.7	15.2	-24.8	254.8	-192.7	2721.3	1.485e+04	-975.8
2	ok 1701	0.10	1.0	1.62e-02	10.1	12.7	5.7	18.2	22.4	254.5	96.7	3043.7	1.834e+04	901.6
2	ok 1702	0.08	0.9	2.09e-02	10.1	10.8	5.7	7.0	-81.1	221.2	33.0	-1175.0	4363.0	3447.9
2	ok 1703	0.08	0.9	2.43e-02	11.6	10.1	7.2	5.7	-73.6	149.5	73.5	-8104.8	-5767.4	5572.2
2	ok 1704	0.08	0.9	2.70e-02	11.7	10.1	9.3	5.7	-85.0	126.0	73.6	-1.189e+04	-1.020e+04	4400.4
2	ok 1705	0.08	0.9	2.94e-02	10.5	10.1	9.7	5.7	-93.8	106.7	82.5	-1.417e+04	-1.214e+04	2407.0
2	ok 1706	0.08	0.9	3.09e-02	12.3	10.1	11.0	5.7	-87.0	72.1	142.1	-1.510e+04	-1.273e+04	-129.1
2	ok 1707	0.09	0.9	3.20e-02	14.4	10.1	11.5	5.7	-103.4	65.5	142.8	-1.449e+04	-1.211e+04	-2433.6
2	ok 1708	0.09	0.9	3.28e-02	14.9	10.1	11.0	5.7	-134.6	57.7	157.0	-1.236e+04	-1.003e+04	-4587.0
2	ok 1709	0.09	0.9	3.31e-02	13.2	10.1	8.8	5.7	-133.1	64.2	167.3	-6990.3	-5328.0	-4145.5
2	ok 1710	0.08	0.6	3.80e-02	10.1	10.1	5.7	5.7	-185.1	71.4	182.6	-3335.5	344.7	-4248.3
2	ok 1711	0.08	1.0	4.23e-02	10.1	10.3	5.7	11.5	-198.6	86.7	210.2	779.2	9642.2	-3090.0
2	ok 1712	0.11	1.0	4.84e-02	10.1	12.9	5.7	22.4	-222.9	87.7	273.3	3976.1	2.057e+04	-1712.2
2	ok 1713	0.08	0.9	4.56e-02	10.1	12.7	5.7	8.9	-252.0	37.3	-86.3	83.0	4844.7	2176.5
2	ok 1714	0.08	0.7	4.80e-02	10.1	10.1	5.7	5.7	-301.3	-76.1	124.2	744.3	1522.2	-69.6
2	ok 1715	0.08	0.9	4.82e-02	10.9	10.1	6.9	5.7	-322.8	-63.2	88.9	581.2	611.4	157.6
2	ok 1716	0.08	0.9	4.79e-02	10.3	10.1	9.0	5.7	-257.0	78.7	130.6	-1.292e+04	-1.156e+04	2504.5
2	ok 1717	0.08	0.9	4.74e-02	10.5	10.1	10.3	5.7	-279.9	98.1	100.5	-1.390e+04	-1.265e+04	343.7
2	ok 1718	0.08	0.9	4.72e-02	11.2	10.1	11.0	5.7	-296.4	125.1	70.1	-1.338e+04	-1.233e+04	-1942.5
2	ok 1719	0.08	0.9	4.67e-02	11.6	10.1	10.5	5.7	-321.8	156.1	31.1	-1.130e+04	-1.036e+04	-4037.3
2	ok 1720	0.08	0.9	4.45e-02	11.3	10.1	7.9	5.7	-299.1	217.4	-55.5	-4757.7	-3019.7	-3368.3
2	ok 1721	0.08	0.8	3.83e-02	10.1	12.4	5.7	8.0	-197.5	248.5	-99.1	-1028.2	4626.6	-2953.2
2	ok 1722	0.10	1.0	2.75e-02	10.1	13.5	5.7	18.3	-12.2	249.4	-76.4	3367.0	1.900e+04	-1001.7
2	ok 1847	0.10	1.0	1.71e-02	10.1	11.9	5.7	19.0	33.3	185.0	60.3	3635.8	2.276e+04	1133.5
2	ok 1848	0.08	0.9	2.10e-02	10.1	10.5	5.7	7.2	-59.6	218.8	64.9	-1135.8	5181.7	1414.0
2	ok 1849	0.08	0.9	2.38e-02	10.1	10.1	6.8	5.7	-80.6	157.4	101.1	-8761.2	-6370.6	2609.0
2	ok 1850	0.08	0.9	2.56e-02	10.5	10.1	10.2	5.7	-87.1	141.6	103.9	-1.333e+04	-1.195e+04	2081.2
2	ok 1851	0.08	0.9	2.67e-02	11.6	10.1	12.4	5.7	-74.7	86.1	143.2	-1.621e+04	-1.479e+04	990.6
2	ok 1852	0.09	1.0	2.76e-02	13.1	10.1	13.5	5.7	-85.2	96.3	141.7	-1.717e+04	-1.548e+04	-180.7
2	ok 1853	0.09	1.0	2.85e-02	14.1	10.1	13.1	5.7	-113.5	69.0	146.9	-1.635e+04	-1.458e+04	-1408.0
2	ok 1854	0.09	0.9	2.96e-02	14.2	10.1	11.3	5.7	-128.0	65.4	152.1	-1.368e+04	-1.187e+04	-2405.5
2	ok 1855	0.08	0.9	3.20e-02	12.1	10.1	7.8	5.7	-144.4	76.1	157.3	-7430.1	-5818.5	-1933.4
2	ok 1856	0.08	0.5	3.72e-02	10.1	10.1	5.7	5.7	-183.8	90.7	166.7	-3205.7	1013.1	-1778.0
2	ok 1857	0.08	1.0	4.17e-02	10.1	11.6	5.7	14.4	-232.6	106.9	199.5	1325.8	1.135e+04	-1206.4
2	ok 1858	0.12	1.0	4.86e-02	10.1	13.3	5.7	26.2	-259.2	115.4	250.6	4616.9	2.275e+04	-885.5
2	ok 1859	0.08	0.9	4.32e-02	10.1	12.0	5.7	9.9	-273.0	54.7	-82.5	760.0	6148.3	731.7
2	ok 1860	0.08	0.5	4.32e-02	10.1	10.1	5.7	5.7	-272.3	-49.8	98.6	1192.5	1883.6	14.7
2	ok 1861	0.08	0.9	4.19e-02	10.2	10.1	8.0	5.7	-218.3	82.8	137.3	-1.092e+04	-9760.2	1958.0
2	ok 1862	0.08	0.9	4.05e-02	10.4	10.1	10.9	5.7	-238.2	97.4	113.7	-1.400e+04	-1.359e+04	1249.5
2	ok 1863	0.08	1.0	3.97e-02	10.6	10.1	12.3	5.7	-255.9	115.9	83.4	-1.527e+04	-1.510e+04	156.7
2	ok 1864	0.08	1.0	4.00e-02	10.5	10.1	12.3	5.7	-267.4	138.1	42.9	-1.467e+04	-1.462e+04	-980.5
2	ok 1865	0.08	0.9	4.05e-02	10.3	10.1	10.8	5.7	-241.6	185.9	-61.7	-8171.1	-7899.2	-1065.2
2	ok 1866	0.08	0.9	3.97e-02	10.1	10.1	7.2	5.7	-210.0	215.9	-105.7	-5074.3	-3259.8	-1248.7
2	ok 1867	0.08	0.8	3.55e-02	10.1	11.7	5.7	7.9	-154.8	234.5	-117.0	-910.6	5415.2	-1068.1
2	ok 1868	0.10	1.0	2.77e-02	10.1	12.2	5.7	18.8	31.4	226.9	-74.7	3505.9	2.008e+04	-602.5
2	ok 1996	0.09	1.0	1.80e-02	10.1	10.9	5.7	17.5	15.8	157.2	61.4	3543.8	2.194e+04	21.4
2	ok 1997	0.08	0.9	2.14e-02	10.1	10.1	5.7	6.6	-47.3	158.6	112.1	-2442.5	4341.4	-650.5
2	ok 1998	0.08	0.9	2.31e-02	11.5	10.1	7.4	5.7	-76.8	148.5	128.3	-8131.0	-6146.4	-635.4
2	ok 1999	0.08	0.9	2.37e-02	12.8	10.1	11.3	5.7	-81.4	126.4	148.3	-1.269e+04	-1.242e+04	-375.7
2	ok 2000	0.09	0.9	2.40e-02	12.9	10.1	13.3	5.7	-83.5	79.7	159.5	-1.527e+04	-1.527e+04	-247.8
2	ok 2001	0.09	1.0	2.45e-02	13.2	10.1	13.9	5.7	-78.7	98.9	154.0	-1.618e+04	-1.608e+04	-243.6
2	ok 2002	0.08	0.9	2.60e-02	12.8	10.1	12.8	5.7	-91.6	69.4	158.4	-1.528e+04	-1.508e+04	-263.9
2	ok 2003	0.08	0.9	2.76e-02	12.0	10.1	10.1	5.7	-121.2	64.4	154.4	-1.257e+04	-1.201e+04	-158.2
2	ok 2004	0.08	0.9	3.09e-02	10.3	10.1	5.9	5.7	-149.5	79.6	143.6	-6502.6	-5463.5	326.1
2	ok 2005	0.08	0.8	3.60e-02	10.1	10.1	5.7	5.7	-192.2	97.3	147.8	-2516.0	1551.1	588.6
2	ok 2006	0.09	1.0	4.08e-02	10.1	13.3	5.7	15.9	-248.9	116.7	176.3	1690.7	1.163e+04	540.0
2	ok 2007	0.12	1.0	4.80e-02	10.1	13.1	5.7	26.7	-273.0	144.2	172.8	4706.4	2.209e+04	183.1
2	ok 2008	0.08	0.9	4.16e-02	10.1	10.1	5.7	10.0	-241.5	89.1	69.0	972.0	9617.7	-715.2
2	ok 2009	0.08	0.4	3.87e-02	10.1	10.1	5.7	5.7	-170.0	89.9	140.4	-5070.8	-1613.9	-678.8
2	ok 2010	0.08	0.9	3.55e-02	10.9	10.1	8.7	5.7	-172.2	100.0	126.8	-9610.7	-9599.4	-345.9
2	ok 2011	0.08	0.9	3.32e-02	10.8	10.1	11.6	5.7	-177.0	112.0	101.4	-1.264e+04	-1.383e+04	-135.5
2	ok 2012	0.08	1.0	3.21e-02	10.6	10.1	12.6	5.7	-209.2	125.5	56.9	-1.397e+04	-1.551e+04	-29.6
2	ok 2013	0.08	1.0	3.31e-02	10.4	10.1	12.2	5.7	-193.9	141.2	-59.0	-8791.0	-1.021e+04	248.4
2	ok 2014	0.08	0.9	3.46e-02	10.8	10.1	10.6	5.7	-188.9	176.3	-101.1	-7289.7	-7798.4	410.6
2	ok 2015	0.08	0.9	3.55e-02	10.3	10.1	6.9	5.7	-168.7	199.1	-115.4	-4410.5	-2989.8	616.8
2	ok 2016	0.08	0.9	3.38e-02	10.1	10.3	5.7	6.8	-76.7	202.4	-134.2	-664.0	5295.5	662.6
2	ok 2017	0.09	1.0	2.81e-02	10.1	11.0	5.7	17.5	3.8	191.8	-72.0	3311.7	1.847e+04	-126.3
2	ok 2180	0.09	1.0	1.93e-02	10.1	10.2	5.7	14.8	-18.5	120.5	59.7	3057.1	1.912e+04	-1063.7
2	ok 2181	0.08	0.8	2.22e-02	10.1	10.1	5.7	5.8	-67.1	132.8	125.7	-2072.1	4046.0	-3300.8
2	ok 2182	0.08	0.9	2.25e-02	12.3	10.1	8.0	5.7	-90.0	124.6	148.0	-6927.2	-5795.8	-3257.4
2	ok 2183	0.09	0.9	2.52e-02	14.0	10.1	11.1	5.7	-89.0	68.7	168.7	-1.057e+04	-1.125e+04	-2394.1
2	ok 2184	0.09	0.9	2.53e-02	14.1	10.1	12.7	5.7	-74.9	108.5	162.5	-1.282e+04	-1.404e+04	-1353.7
2	ok 2185	0.08	0.9	2.52e-02	12.7	10.1	12.4	5.7	-82.5	58.5	157.5	-1.349e+04	-1.488e+04	-253.1
2	ok 2186	0.08	0.9	2.61e-02	11.5	10.1	11.0	5.7	-94.3	57.7	158.1	-1.266e+04	-1.388e+04	785.4

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok 2187	0.08	0.9	2.72e-02	10.8	10.1	8.5	5.7	-113.4	56.6	154.8	-1.029e+04	-1.078e+04	1776.9
2	ok 2188	0.08	0.7	2.93e-02	10.1	10.1	5.7	5.7	-181.2	76.4	109.8	-5032.8	-4649.2	2210.3
2	ok 2189	0.08	0.9	3.46e-02	10.1	10.9	5.7	6.5	-194.8	98.4	125.7	-1663.8	1850.5	2553.9
2	ok 2190	0.09	1.0	3.95e-02	10.1	14.4	5.7	15.6	-255.4	119.9	150.0	1779.8	1.064e+04	1995.9
2	ok 2191	0.12	1.0	4.80e-02	10.1	12.6	5.7	24.4	-307.5	125.9	69.4	5010.8	2.332e+04	-88.0
2	ok 2192	0.08	0.9	3.95e-02	10.1	10.1	5.7	9.8	-234.7	99.9	59.2	1581.2	8971.1	-2127.8
2	ok 2193	0.08	0.6	3.40e-02	10.1	10.1	5.7	5.7	-152.2	103.4	136.5	-3649.6	-949.1	-2996.2
2	ok 2194	0.08	0.9	2.92e-02	11.9	10.1	8.9	5.7	-137.6	111.5	120.3	-7496.7	-8472.6	-2378.3
2	ok 2195	0.08	0.9	2.61e-02	11.4	10.1	11.3	5.7	-153.5	121.3	81.3	-1.018e+04	-1.264e+04	-1344.6
2	ok 2196	0.08	0.9	2.50e-02	10.5	10.1	11.8	5.7	-156.9	129.6	41.8	-1.132e+04	-1.422e+04	-259.5
2	ok 2197	0.08	0.9	2.63e-02	10.8	10.1	11.3	5.7	-153.7	116.6	-54.9	-7379.9	-9811.5	752.8
2	ok 2198	0.08	0.9	2.89e-02	11.7	10.1	9.5	5.7	-152.8	120.8	-89.3	-6015.9	-7629.0	1593.1
2	ok 2199	0.08	0.9	3.19e-02	10.8	10.1	6.4	5.7	-151.1	124.0	-113.7	-3701.4	-3307.8	2251.5
2	ok 2200	0.08	0.8	3.28e-02	10.1	10.1	5.7	5.9	-73.3	163.2	-137.7	-392.6	4811.5	2020.9
2	ok 2201	0.09	1.0	2.95e-02	10.1	10.3	5.7	15.0	-133.3	110.6	-60.6	2662.2	1.493e+04	529.7
2	ok 2770	0.08	1.0	2.86e-02	10.1	10.2	5.7	11.3	-68.0	84.4	62.0	2379.8	1.464e+04	-1995.1
2	ok 2771	0.08	0.7	2.68e-02	10.1	10.1	5.7	5.7	-97.4	93.1	113.9	-1152.4	3856.5	-5937.5
2	ok 2772	0.08	0.9	3.17e-02	11.9	10.1	7.5	5.7	-101.8	51.8	153.8	-4932.3	-4435.3	-5317.5
2	ok 2773	0.09	0.9	2.79e-02	14.6	10.1	10.2	5.7	-95.9	49.5	173.7	-7619.2	-8943.8	-4010.9
2	ok 2774	0.09	0.9	2.68e-02	13.9	10.1	10.3	5.7	-60.3	43.1	181.5	-9278.4	-1.128e+04	-2200.8
2	ok 2775	0.08	0.9	2.62e-02	12.1	10.1	9.7	5.7	-73.3	41.7	166.1	-9751.6	-1.202e+04	-217.8
2	ok 2776	0.08	0.9	2.61e-02	10.6	10.1	8.8	5.7	-47.5	45.0	164.2	-9117.1	-1.112e+04	1754.6
2	ok 2777	0.08	0.9	2.36e-02	10.1	10.1	7.1	5.7	-64.0	82.9	145.2	-7055.9	-8286.4	3340.9
2	ok 2778	0.08	0.6	2.87e-02	10.1	10.1	5.7	5.7	-100.7	111.3	111.7	-4503.5	-3192.2	4301.0
2	ok 2779	0.08	0.9	3.58e-02	10.1	11.7	5.7	7.3	-212.9	106.3	93.8	-970.3	1799.2	4059.9
2	ok 2780	0.09	1.0	3.77e-02	10.1	15.9	5.7	13.9	-177.4	113.9	155.1	1671.7	1.358e+04	3490.6
2	ok 2781	0.10	1.0	4.56e-02	10.1	12.5	5.7	20.0	-218.3	110.3	165.7	4115.0	2.587e+04	600.5
2	ok 2782	0.08	0.9	3.62e-02	10.1	10.1	5.7	8.7	-207.4	108.8	77.4	1646.2	7499.2	-2995.9
2	ok 2783	0.08	0.7	2.82e-02	10.1	10.1	5.7	5.7	-123.4	121.7	121.1	-2185.4	-504.1	-4897.8
2	ok 2784	0.08	0.9	2.23e-02	12.7	10.1	8.5	5.7	-78.4	136.1	126.1	-5054.7	-6455.1	-4112.2
2	ok 2785	0.08	0.9	1.90e-02	12.0	10.1	10.0	5.7	-72.8	138.2	94.3	-6981.2	-9977.0	-2589.2
2	ok 2786	0.08	0.9	2.00e-02	10.5	10.1	10.0	5.7	-89.6	136.5	66.5	-7869.2	-1.145e+04	-604.3
2	ok 2787	0.08	0.9	2.16e-02	11.0	10.1	9.5	5.7	-84.3	103.1	-127.1	-3569.0	-5744.3	1115.5
2	ok 2788	0.08	0.9	2.23e-02	11.8	10.1	8.0	5.7	-102.0	99.0	-83.6	-3911.1	-5928.8	2499.9
2	ok 2789	0.08	0.9	2.76e-02	10.1	10.1	5.7	5.7	-118.4	85.8	-112.8	-2298.2	-2359.5	3394.2
2	ok 2790	0.08	0.7	3.27e-02	10.1	10.1	5.7	5.7	-167.6	96.1	-79.9	-319.4	4037.4	5271.5
2	ok 2791	0.08	1.0	3.90e-02	10.1	10.1	5.7	11.5	-276.9	82.8	-64.5	2834.1	1.511e+04	1717.2
2	ok 3030	0.09	0.9	8.30e-02	10.1	13.1	5.7	9.5	-534.5	-87.5	252.2	2043.6	7564.7	-1215.4
2	ok 3031	0.08	0.8	6.65e-02	10.7	10.1	6.3	5.7	-174.7	74.5	151.3	-124.7	2831.3	-6673.1
2	ok 3032	0.08	0.9	4.01e-02	12.4	10.1	8.0	5.7	-123.3	123.5	202.3	-2168.0	-2371.7	-6790.9
2	ok 3033	0.09	0.9	3.08e-02	12.8	10.1	8.4	5.7	-116.1	-8.5	161.3	-2837.7	-3954.4	-3343.5
2	ok 3034	0.08	0.9	2.73e-02	12.4	10.1	8.0	5.7	-37.0	60.3	173.9	-5386.7	-7499.5	-2797.8
2	ok 3035	0.08	0.9	2.39e-02	11.3	10.1	7.3	5.7	-56.2	61.8	168.1	-5798.5	-8045.0	-176.0
2	ok 3036	0.08	0.9	2.24e-02	10.1	10.1	6.2	5.7	-34.1	64.2	172.1	-5262.6	-7302.3	2686.5
2	ok 3037	0.08	0.8	2.62e-02	10.1	10.1	5.7	5.7	-57.9	68.2	139.6	-3179.8	-5377.0	4869.1
2	ok 3038	0.08	0.6	2.89e-02	10.1	10.1	5.7	5.7	-191.4	129.6	-55.6	-1847.7	-1918.3	3539.3
2	ok 3039	0.09	0.9	6.59e-02	10.1	13.2	5.7	9.4	-462.3	104.5	-68.3	-2310.4	687.8	3603.7
2	ok 3040	0.09	0.9	4.16e-02	10.1	14.5	5.7	10.5	-196.9	128.4	189.7	881.4	8421.7	4373.0
2	ok 3041	0.09	0.9	5.69e-02	10.1	13.5	5.7	14.7	-233.4	130.8	153.7	2496.9	1.505e+04	657.2
2	ok 3042	0.08	0.9	3.56e-02	10.1	10.1	5.7	6.5	-169.9	122.7	140.8	998.6	6265.9	-4720.7
2	ok 3043	0.08	0.8	2.18e-02	10.3	10.1	5.9	5.7	-65.3	146.8	124.2	-1020.0	-124.3	-6009.2
2	ok 3044	0.08	0.9	1.50e-02	12.2	10.1	7.8	5.7	-42.7	164.3	109.5	-2688.7	-4174.2	-5262.6
2	ok 3045	0.08	0.9	1.55e-02	12.0	10.1	8.4	5.7	-54.1	168.5	93.3	-3917.1	-6667.7	-3276.9
2	ok 3046	0.08	0.9	1.64e-02	10.5	10.1	7.9	5.7	-52.6	160.5	76.0	-4478.5	-7686.2	-772.6
2	ok 3047	0.08	0.9	1.75e-02	10.5	10.1	7.3	5.7	-38.8	115.3	72.3	-4206.7	-7268.2	1985.5
2	ok 3048	0.08	0.9	1.72e-02	11.0	10.1	6.7	5.7	-47.9	89.8	44.7	-3338.5	-5675.0	4233.2
2	ok 3049	0.08	0.7	2.23e-02	10.1	10.1	5.7	5.7	-79.8	53.9	-85.2	-955.3	-1429.4	4072.8
2	ok 3050	0.08	0.7	3.92e-02	10.1	10.1	5.7	5.7	-11.0	45.9	-226.7	811.5	2949.8	3742.7
2	ok 3051	0.08	0.9	6.76e-02	10.1	10.7	5.7	7.3	-430.6	24.8	-156.1	2151.1	7616.0	949.0
2	ok 3290	0.08	0.8	0.1	11.7	11.0	6.2	6.6	-737.0	-343.4	313.4	2284.6	3616.4	-1204.2
2	ok 3291	0.08	0.9	7.95e-02	10.7	12.5	6.3	8.1	-420.5	-48.4	194.0	1271.1	1606.3	-7021.9
2	ok 3292	0.09	0.9	5.06e-02	13.5	10.1	9.1	5.7	-129.2	-6.9	185.6	57.6	-1105.9	-7287.0
2	ok 3293	0.08	0.9	3.79e-02	10.9	10.1	6.5	5.7	-19.8	77.7	128.2	-1114.3	-2219.8	-6637.6
2	ok 3294	0.08	0.8	2.64e-02	10.1	10.1	5.7	5.7	-22.2	88.8	121.0	-1901.0	-2911.3	-3786.4
2	ok 3295	0.08	0.5	2.20e-02	10.1	10.1	5.7	5.7	-27.7	46.1	158.1	-1959.7	-3446.3	-176.3
2	ok 3296	0.08	0.5	2.07e-02	10.1	10.1	5.7	5.7	-22.1	73.6	136.7	-1683.4	-2842.2	3297.3
2	ok 3297	0.08	0.6	2.12e-02	10.1	10.1	5.7	5.7	-32.4	60.1	162.3	-1554.0	-2363.9	6418.2
2	ok 3298	0.08	0.9	4.70e-02	10.1	11.3	5.7	6.9	-41.7	89.0	99.4	957.0	-819.4	8133.8
2	ok 3299	0.09	0.9	7.09e-02	10.1	13.5	5.7	9.1	-398.1	53.6	-145.3	1589.8	407.0	4867.5
2	ok 3300	0.12	1.0	5.82e-02	29.6	29.4	12.2	19.8	-193.9	295.7	17.1	1417.3	8439.7	2608.5
2	ok 3301	0.08	0.9	8.06e-02	10.1	11.5	5.7	7.3	-429.3	171.3	-110.1	2479.7	5497.3	-5.5
2	ok 3302	0.08	0.8	3.24e-02	10.4	10.1	6.0	5.7	-23.0	193.9	118.7	1734.7	2743.5	-5773.3
2	ok 3303	0.08	0.9	1.45e-02	11.4	10.1	7.0	5.7	-26.8	219.9	93.4	-172.1	-206.0	-7338.7
2	ok 3304	0.08	0.9	1.23e-02	11.8	10.1	7.4	5.7	-20.1	221.0	92.0	-584.5	-1680.2	-6414.2

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok 3305	0.08	0.8	1.26e-02	11.2	10.1	6.8	5.7	-10.6	226.5	76.6	-1079.0	-2697.6	-4112.4
2	ok 3306	0.08	0.8	1.33e-02	10.2	10.1	5.8	5.7	-17.1	205.5	87.2	-1339.1	-3406.4	-679.8
2	ok 3307	0.08	0.7	1.37e-02	10.1	10.1	5.7	5.7	-12.6	189.8	92.9	-1165.1	-2974.8	2527.7
2	ok 3308	0.08	0.8	1.48e-02	10.1	10.1	5.7	5.7	-20.3	158.5	78.4	-752.4	-2286.3	5399.8
2	ok 3309	0.08	0.8	1.87e-02	10.1	10.1	5.7	5.7	-23.1	114.8	87.7	-55.8	-704.2	7266.7
2	ok 3310	0.08	0.9	3.32e-02	10.1	10.9	5.7	6.5	169.7	-121.1	-101.2	790.0	1342.5	5405.7
2	ok 3311	0.08	0.5	0.1	10.1	10.1	5.7	5.7	-883.7	-315.5	-36.4	4040.3	3598.4	729.7
2	ok 3550	0.09	0.6	0.1	10.6	10.4	16.1	15.3	-1131.2	782.4	243.7	4933.0	584.1	-1969.7
2	ok 3551	0.10	0.8	0.1	15.3	16.0	21.0	21.6	863.0	1281.2	-188.3	-1218.1	-1336.6	-1714.8
2	ok 3552	0.09	0.8	0.1	11.9	14.7	9.5	11.1	-91.7	-584.9	373.3	-143.9	7.4	-2198.0
2	ok 3553	0.08	0.4	3.27e-02	10.1	10.1	5.7	5.7	-22.0	-95.0	97.8	-579.4	-494.0	-1333.9
2	ok 3554	0.08	0.2	2.21e-02	10.1	10.1	5.7	5.7	-13.2	67.2	128.4	745.9	-781.8	-1548.9
2	ok 3555	0.08	0.1	1.99e-02	10.1	10.1	5.7	5.7	-16.0	81.3	111.5	1105.8	-822.9	-176.2
2	ok 3556	0.08	0.2	1.86e-02	10.1	10.1	5.7	5.7	-16.3	86.0	112.3	989.2	-732.8	1321.7
2	ok 3557	0.08	0.4	1.86e-02	10.1	10.1	5.7	5.7	-11.1	56.1	160.7	643.3	-259.6	3033.9
2	ok 3558	0.08	0.8	3.27e-02	10.2	12.6	5.8	8.2	-55.4	87.9	95.4	1871.1	342.6	3789.0
2	ok 3559	0.11	0.9	0.1	15.9	22.7	14.9	19.5	478.9	696.1	277.2	-1755.2	-823.5	8169.4
2	ok 3560	0.12	1.0	0.1	30.8	28.5	25.6	23.7	-613.9	-898.7	427.5	-255.4	4098.2	-6979.1
2	ok 3561	0.10	0.9	0.1	20.0	18.1	21.7	20.6	-434.2	-778.5	-99.0	1024.3	2593.3	-196.6
2	ok 3562	0.08	0.8	3.13e-02	11.1	12.0	8.5	10.2	-48.6	258.7	98.8	878.5	1593.5	-2804.8
2	ok 3563	0.08	0.5	9.92e-03	10.1	10.1	5.7	5.7	-6.4	287.1	68.2	-133.8	305.6	-3164.7
2	ok 3564	0.08	0.7	9.23e-03	10.1	10.1	5.7	5.7	-22.7	284.8	70.2	456.9	-627.7	-2595.9
2	ok 3565	0.08	0.6	9.43e-03	10.1	10.1	5.7	5.7	-14.1	273.3	96.9	868.0	-925.4	-1620.9
2	ok 3566	0.08	0.4	9.75e-03	10.1	10.1	5.7	5.7	-12.9	267.2	109.0	1095.3	-1015.4	-278.3
2	ok 3567	0.08	0.3	1.03e-02	10.1	10.1	5.7	5.7	-13.0	245.3	117.4	1083.8	-959.6	1020.8
2	ok 3568	0.08	0.3	1.17e-02	10.1	10.1	5.7	5.7	-12.7	209.8	103.4	910.7	-725.0	2207.6
2	ok 3569	0.08	0.8	2.38e-02	10.1	11.8	5.7	7.4	-13.3	187.3	111.8	666.5	-216.9	3005.5
2	ok 3570	0.09	0.8	5.50e-02	11.7	15.8	9.5	12.2	531.0	644.2	154.8	-949.2	36.3	2479.9
2	ok 3571	0.08	0.8	0.1	11.7	11.0	7.4	9.1	-984.4	503.6	-252.1	4130.1	1156.7	1572.8

M_S	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
								-1131.17	-898.65	-252.11	-1.717e+04	-1.608e+04	-7338.74
	0.12	0.99	0.15	30.83	29.38	25.55	26.71	863.00	1281.23	427.46	2.010e+04	2.587e+04	8169.43

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
3	ok 51	0.08	0.2	8.88e-02	10.1	10.1	5.7	5.7	-671.1	-142.4	95.5	5740.8	1482.5	-333.1
3	ok 75	0.08	0.6	3.10e-02	10.1	10.1	5.7	5.7	14.3	22.0	84.4	7284.9	1872.9	-951.6
3	ok 99	0.08	0.8	2.54e-02	10.1	10.1	5.7	5.7	-83.7	79.3	174.5	4947.0	836.5	-222.1
3	ok 123	0.08	0.9	2.25e-02	10.1	12.3	5.7	6.7	110.9	152.6	127.0	1.303e+04	2287.2	546.9
3	ok 147	0.09	0.9	2.51e-02	10.1	16.8	5.7	6.0	641.8	199.3	-70.5	1.009e+04	2252.4	1032.5
3	ok 171	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1556.5	-308.6	-413.1	9413.2	1820.0	1208.2
3	ok 1409	0.08	0.9	5.37e-02	10.1	10.6	5.7	6.2	-294.5	31.0	35.8	1088.1	6284.5	-138.2
3	ok 1431	0.08	0.4	3.74e-02	10.1	10.1	5.7	5.7	-112.7	69.5	181.7	-1209.3	906.6	-1190.1
3	ok 1434	0.08	0.5	2.89e-02	10.1	10.1	5.7	5.7	-93.9	81.9	196.4	-2375.9	-1525.0	-1381.9
3	ok 1437	0.08	0.4	2.89e-02	10.1	10.1	5.7	5.7	-50.8	74.1	172.0	-2431.4	-1700.6	124.9
3	ok 1440	0.08	0.4	8.19e-02	10.1	10.1	5.7	5.7	76.4	-324.9	-366.8	832.9	-678.5	2930.6
3	ok 1443	0.08	0.8	0.2	10.1	10.1	5.7	6.0	-1156.7	-353.9	-357.8	2873.3	2491.3	587.8
3	ok 1555	0.09	0.9	2.03e-02	10.1	12.5	5.7	14.7	-50.1	220.2	151.6	2547.2	1.515e+04	2060.3
3	ok 1577	0.08	0.8	2.75e-02	10.1	10.6	5.7	6.2	-114.0	195.4	181.3	-998.6	2851.2	-206.8
3	ok 1580	0.08	0.8	2.54e-02	10.1	10.1	5.7	5.7	-98.7	166.0	166.7	-3172.7	-2494.4	-743.7
3	ok 1583	0.08	0.7	3.58e-02	10.1	10.1	5.7	5.7	-48.0	142.0	126.3	-3180.7	-3274.6	-134.4
3	ok 1586	0.08	0.7	5.94e-02	10.1	10.1	5.7	5.7	-202.6	42.1	-276.4	-2775.2	-2073.2	2012.3
3	ok 1589	0.09	0.9	8.66e-02	10.1	14.7	5.7	11.9	-331.8	137.4	-209.7	1831.2	1.158e+04	-2223.1
3	ok 1701	0.10	1.0	1.50e-02	10.1	12.8	5.7	19.4	34.3	282.3	137.0	3995.9	2.086e+04	1841.2
3	ok 1723	0.08	0.9	1.84e-02	10.1	11.1	5.7	8.9	-89.4	260.7	145.1	612.7	5086.7	1232.5
3	ok 1726	0.08	0.9	2.20e-02	10.3	10.1	6.5	5.7	-119.8	215.2	126.8	-1685.9	-2397.7	-235.3
3	ok 1729	0.08	0.9	3.48e-02	10.7	10.1	6.5	5.7	-145.7	183.4	102.2	-2099.9	-3581.8	-385.5
3	ok 1732	0.08	0.8	4.59e-02	10.1	11.6	5.7	7.5	-215.0	169.8	-229.3	-18.9	4180.1	-396.4
3	ok 1735	0.09	0.9	5.18e-02	10.1	14.1	5.7	17.3	-257.8	220.5	-271.3	3549.6	1.777e+04	-2052.0
3	ok 1847	0.10	1.0	1.58e-02	10.1	12.5	5.7	20.7	50.9	291.0	122.5	4642.6	2.303e+04	1130.4
3	ok 1869	0.08	0.9	1.80e-02	10.1	11.2	5.7	10.0	-77.3	278.5	72.9	1904.6	7071.1	1426.2
3	ok 1872	0.08	0.9	2.64e-02	10.2	10.1	6.7	5.7	-158.7	169.7	-110.6	-835.7	-2939.6	536.0
3	ok 1875	0.08	0.9	3.37e-02	10.1	10.1	6.9	5.7	-190.0	186.7	-155.2	-480.2	-1809.2	-46.0
3	ok 1878	0.08	0.9	3.88e-02	10.1	12.5	5.7	9.9	-220.9	255.9	-173.4	1714.7	6107.1	-1351.7
3	ok 1881	0.10	1.0	3.97e-02	10.1	14.0	5.7	20.1	-157.0	295.5	-135.9	4426.0	2.159e+04	-1497.7
3	ok 1996	0.10	1.0	1.67e-02	10.1	11.3	5.7	19.4	35.0	269.9	107.7	4604.1	2.225e+04	210.2
3	ok 2018	0.08	0.9	1.80e-02	10.1	10.6	5.7	9.8	-76.3	258.0	47.1	2562.7	7966.8	970.6
3	ok 2021	0.08	0.9	2.73e-02	10.2	10.1	6.2	5.7	-174.4	171.3	-100.8	396.4	-2016.2	484.2
3	ok 2024	0.08	0.9	3.22e-02	10.1	10.1	6.2	5.7	-208.6	192.5	-120.3	812.4	-740.9	-282.6
3	ok 2027	0.08	0.9	3.65e-02	10.1	12.3	5.7	10.0	-220.2	247.2	-129.1	2528.6	7335.4	-1178.5
3	ok 2030	0.10	1.0	3.64e-02	10.1	12.8	5.7	19.2	-167.6	282.1	-128.0	4577.4	2.150e+04	-569.7
3	ok 2180	0.09	1.0	1.81e-02	10.1	10.1	5.7	16.6	0.8	228.9	90.9	4058.8	1.941e+04	-769.8

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
3	ok 2202	0.08	0.9	2.25e-02	10.1	10.1	5.7	8.8	-89.3	214.8	25.2	2646.2	7758.4	317.1
3	ok 2205	0.08	0.7	2.68e-02	10.1	10.1	5.7	5.7	-178.1	138.1	-81.7	1053.0	-1117.5	313.3
3	ok 2208	0.08	0.7	3.08e-02	10.1	10.1	5.7	5.7	-208.3	155.2	-100.3	1759.8	740.7	-494.2
3	ok 2211	0.08	0.9	3.68e-02	10.1	11.0	5.7	8.9	-228.1	210.0	-107.3	2737.8	7433.8	-545.6
3	ok 2214	0.09	1.0	3.93e-02	10.1	11.8	5.7	16.7	-213.3	247.5	-109.1	4215.0	1.920e+04	490.6
3	ok 2770	0.08	1.0	2.15e-02	10.1	11.0	5.7	12.1	133.0	120.1	3.9	2106.1	7822.0	-864.4
3	ok 2792	0.08	0.9	3.18e-02	10.1	10.4	5.7	7.0	-69.1	106.4	-83.8	1208.2	2036.4	45.4
3	ok 2795	0.08	0.4	3.02e-02	10.1	10.1	5.7	5.7	-137.8	67.0	-156.9	1741.1	527.1	-295.8
3	ok 2798	0.08	0.4	2.86e-02	10.1	10.1	5.7	5.7	-50.6	128.4	-138.2	2196.1	2033.8	-344.1
3	ok 2801	0.08	0.9	3.96e-02	10.1	10.1	5.7	6.7	-240.6	113.7	-70.3	2489.4	6456.8	143.9
3	ok 2804	0.08	1.0	4.89e-02	10.1	10.1	5.7	12.0	-295.1	126.0	-129.7	3465.8	1.509e+04	1191.0
3	ok 3030	0.08	0.9	6.80e-02	10.1	10.7	5.7	7.2	-32.7	106.6	12.1	613.0	4529.2	-1085.1
3	ok 3052	0.08	0.8	6.29e-02	10.1	10.9	5.7	6.5	-226.3	75.6	-28.7	706.8	1356.7	-720.6
3	ok 3055	0.08	0.2	4.34e-02	10.1	10.1	5.7	5.7	-156.3	-25.5	-231.9	1115.5	463.1	-651.5
3	ok 3058	0.08	0.3	3.14e-02	10.1	10.1	5.7	5.7	-34.6	-14.7	-125.1	1509.9	1256.3	-355.7
3	ok 3061	0.08	0.7	6.38e-02	10.1	10.1	5.7	5.7	-214.1	45.7	28.2	1527.6	2386.3	-189.1
3	ok 3064	0.08	0.9	0.1	10.1	11.2	5.7	8.0	-795.5	-30.7	95.2	4557.9	1.018e+04	2229.7
3	ok 3290	0.09	0.9	0.1	14.3	10.1	6.4	5.7	-1133.0	-355.0	-68.1	6418.3	4436.7	-163.6
3	ok 3312	0.08	0.3	6.72e-02	10.1	10.1	5.7	5.7	-26.8	-23.8	22.3	-1404.5	305.6	-984.6
3	ok 3315	0.08	0.2	4.52e-02	10.1	10.1	5.7	5.7	-53.5	16.8	-284.4	-637.2	521.1	-710.9
3	ok 3318	0.08	0.1	5.16e-02	10.1	10.1	5.7	5.7	-38.0	-84.6	-132.6	-219.9	593.6	-641.6
3	ok 3321	0.08	0.3	5.45e-02	10.1	10.1	5.7	5.7	149.7	-188.7	177.6	1573.5	2039.2	385.7
3	ok 3324	0.09	0.9	0.2	14.8	10.1	7.0	5.7	-1479.2	-476.6	174.6	8580.6	5234.8	61.9
3	ok 3550	0.08	0.9	0.2	11.7	10.3	11.2	8.0	-1197.7	528.7	-271.5	3942.3	8.6	1703.8
3	ok 3572	0.09	0.7	0.1	12.6	13.3	11.7	11.4	371.4	305.2	28.3	-1211.0	691.9	2461.0
3	ok 3594	0.08	0.4	7.04e-02	10.1	10.1	5.7	5.7	-43.7	-399.2	-250.6	-2726.3	72.2	-255.6
3	ok 3616	0.08	0.5	6.78e-02	11.0	10.9	6.6	6.5	-27.9	-34.5	-127.6	-2380.5	-306.7	-379.5
3	ok 3638	0.10	0.7	0.1	19.2	19.5	17.6	15.9	797.2	813.1	-176.4	-1964.5	548.5	-2837.4
3	ok 3660	0.08	0.9	0.2	10.7	10.8	12.2	8.6	-1726.0	533.9	267.8	5045.5	-1681.4	-1477.7

M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-1725.95	-476.64	-413.10	-3180.72	-3581.78	-2837.35
		0.10	0.97	0.24	19.22	19.53	17.63	20.69	797.24	813.13	267.78	1.303e+04	2.303e+04	2930.63

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
4	ok 62	0.08	0.1	2.64e-02	10.1	10.1	5.7	5.7	17.9	96.8	-255.6	-359.8	-183.1	45.1
4	ok 86	0.08	0.7	3.88e-02	10.1	10.1	5.7	5.7	83.3	106.3	-358.3	-789.8	-427.6	65.4
4	ok 110	0.08	0.8	4.53e-02	10.1	10.1	5.7	5.7	39.4	63.0	-386.1	-1035.6	-184.6	31.9
4	ok 134	0.08	0.8	4.11e-02	10.1	10.1	5.7	5.7	107.9	37.8	-382.7	-999.9	-200.0	-21.4
4	ok 158	0.08	0.5	3.48e-02	10.1	10.1	5.7	5.7	206.4	-6.6	-346.9	-559.2	-211.7	-88.5
4	ok 182	0.08	0.2	6.72e-02	10.1	10.1	5.7	5.7	-47.1	-314.7	-296.4	-2075.3	163.5	11.7
4	ok 1420	0.08	0.8	3.71e-02	10.1	10.1	5.7	5.7	-89.2	179.2	-300.2	-257.6	-659.2	211.3
4	ok 1432	0.08	0.3	4.04e-02	10.1	10.1	5.7	5.7	-18.2	152.5	-363.0	226.9	150.5	271.5
4	ok 1435	0.08	0.5	4.57e-02	10.1	10.4	5.7	6.0	18.7	159.0	-392.5	322.6	274.3	64.0
4	ok 1438	0.08	0.6	5.10e-02	10.1	10.4	5.7	6.0	110.1	69.8	-452.1	208.3	139.8	-146.6
4	ok 1441	0.08	0.7	7.97e-02	11.3	11.4	6.9	7.0	169.3	-118.8	-493.0	-394.7	-495.8	-6.5
4	ok 1454	0.08	0.7	0.1	10.1	10.1	5.7	5.7	-199.4	-452.3	-776.5	-681.9	-887.2	860.3
4	ok 1566	0.08	0.9	4.26e-02	10.5	10.2	11.5	11.3	-162.6	297.6	-325.9	-192.0	-974.7	133.3
4	ok 1578	0.08	0.7	4.21e-02	11.0	10.8	6.9	6.5	-86.2	270.7	-377.3	209.4	235.7	174.5
4	ok 1581	0.08	0.7	4.91e-02	11.3	12.2	7.1	7.8	-32.7	241.7	-465.6	502.5	657.6	1.8
4	ok 1584	0.09	0.7	5.58e-02	12.7	12.9	8.3	8.5	54.8	186.1	-552.5	403.7	331.7	-125.6
4	ok 1587	0.09	0.8	6.88e-02	14.2	13.3	9.8	8.9	59.1	157.2	-614.5	-4.4	-830.9	-10.1
4	ok 1600	0.09	0.9	7.88e-02	14.4	11.9	12.0	8.9	-77.5	244.0	-562.2	-604.9	-2816.9	842.4
4	ok 1712	0.09	0.9	4.50e-02	10.6	10.4	15.0	14.6	-208.9	368.1	-321.2	-223.9	-1117.1	63.9
4	ok 1724	0.08	0.7	4.75e-02	11.2	11.6	8.5	8.5	-187.4	397.4	-375.2	251.9	253.7	42.1
4	ok 1727	0.09	0.8	4.91e-02	12.9	13.4	9.0	9.7	-102.4	401.1	-473.8	396.2	817.5	-15.0
4	ok 1730	0.09	0.7	5.35e-02	14.8	14.6	10.9	10.9	-11.7	403.3	-563.2	194.1	326.1	-30.5
4	ok 1733	0.10	0.8	4.86e-02	16.7	15.1	12.3	10.7	55.9	429.9	-585.9	-345.0	-1317.5	186.3
4	ok 1746	0.09	0.9	4.84e-02	14.8	11.7	15.5	11.9	86.1	497.7	-466.4	-960.1	-4411.4	814.0
4	ok 1858	0.09	0.9	4.61e-02	10.7	10.5	15.7	15.3	-263.6	377.6	-267.7	-220.2	-1107.7	33.7
4	ok 1870	0.08	0.7	4.77e-02	11.9	11.6	9.3	9.3	-204.5	477.3	-340.4	159.5	211.2	-23.0
4	ok 1873	0.09	0.8	4.86e-02	14.0	14.0	10.7	12.0	-172.4	566.9	-436.4	231.7	808.2	22.5
4	ok 1876	0.09	0.7	4.98e-02	16.2	15.1	13.1	13.4	-104.7	643.5	-541.9	-13.2	210.0	146.0
4	ok 1879	0.10	0.8	4.41e-02	19.0	17.5	15.4	13.1	77.8	682.7	-575.7	-603.2	-1678.9	288.8
4	ok 1892	0.10	0.9	3.21e-02	15.7	11.7	18.4	12.5	260.9	614.0	-459.9	-1483.2	-5633.9	488.8
4	ok 2007	0.09	0.9	4.45e-02	10.3	10.2	14.3	13.9	-311.0	377.3	-158.1	-197.1	-1015.8	-50.3
4	ok 2019	0.08	0.7	4.51e-02	11.0	11.4	8.8	8.9	-239.3	524.6	-184.3	-136.6	-243.6	54.3
4	ok 2022	0.09	0.8	4.41e-02	12.9	13.6	11.3	12.9	-235.8	693.9	-312.3	119.4	682.9	59.3
4	ok 2025	0.09	0.7	4.53e-02	15.6	15.0	15.7	16.0	-184.1	848.8	-382.8	-69.8	-59.8	212.9
4	ok 2028	0.11	0.8	4.40e-02	23.0	21.8	21.9	20.0	27.2	1063.7	-555.1	-447.6	-1777.0	394.1
4	ok 2041	0.11	0.9	2.94e-02	21.3	18.8	25.4	18.4	484.5	1009.8	-642.2	-1291.5	-5264.3	-30.5
4	ok 2191	0.08	0.9	4.33e-02	10.1	10.2	11.9	11.6	-244.3	380.9	-106.2	-32.9	-139.9	76.9

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
4	ok 2203	0.08	0.8	4.08e-02	10.7	10.9	7.8	7.9	-269.1	477.3	-111.0	-115.3	-243.7	128.5
4	ok 2206	0.08	0.8	4.10e-02	11.0	11.3	10.3	11.9	-278.1	622.1	-128.8	-194.0	-457.3	60.8
4	ok 2209	0.09	0.7	4.31e-02	11.6	11.7	15.7	15.7	-281.4	859.9	-142.5	-127.1	-814.1	1.8
4	ok 2212	0.11	0.8	4.64e-02	15.8	13.9	25.1	21.9	-241.9	1555.7	-248.6	33.3	-2141.2	408.0
4	ok 2225	0.13	0.7	2.55e-02	25.0	25.5	41.2	38.7	431.2	2420.3	-634.0	598.7	-1955.8	-137.3
4	ok 2781	0.08	0.9	4.25e-02	10.1	10.1	8.7	8.5	-166.5	359.8	-153.9	38.2	-691.9	300.9
4	ok 2793	0.08	0.7	4.13e-02	10.9	10.6	6.5	6.6	-272.4	311.6	166.3	-269.8	-192.9	109.7
4	ok 2796	0.08	0.8	4.15e-02	10.8	10.6	8.0	9.2	-268.4	532.1	189.2	-231.6	480.8	43.8
4	ok 2799	0.09	0.7	4.25e-02	12.1	12.1	12.4	12.3	-262.6	659.0	117.8	-241.3	-687.2	-112.8
4	ok 2802	0.10	0.8	3.62e-02	15.9	15.8	18.9	16.9	-201.7	996.9	306.8	-439.8	-1719.2	-129.0
4	ok 2815	0.11	0.9	1.50e-02	16.9	17.4	23.2	16.0	318.9	1139.6	393.2	-1266.7	-4664.6	84.0
4	ok 3041	0.08	0.8	5.38e-02	10.1	10.1	5.7	5.7	-177.5	246.9	172.6	-159.0	-970.6	-67.8
4	ok 3053	0.08	0.3	4.73e-02	10.1	10.1	5.7	5.7	-214.1	260.2	221.5	-316.3	-624.8	252.7
4	ok 3056	0.08	0.6	4.61e-02	10.1	10.1	5.7	5.7	-181.9	217.6	261.7	197.2	424.8	63.6
4	ok 3059	0.08	0.8	5.59e-02	10.3	10.6	5.9	6.2	-118.8	232.1	315.2	-50.9	777.4	451.6
4	ok 3062	0.08	0.9	5.87e-02	11.9	10.5	7.5	6.1	-85.5	227.4	364.5	-794.5	-1539.8	537.7
4	ok 3075	0.09	0.9	3.54e-02	12.9	10.1	9.0	5.7	-104.1	237.5	278.4	-1628.7	-5630.4	84.7
4	ok 3301	0.08	0.5	7.00e-02	10.1	10.1	5.7	5.7	-348.4	-175.4	-45.9	145.3	564.5	-668.3
4	ok 3313	0.08	0.2	4.30e-02	10.1	10.1	5.7	5.7	-216.4	-55.7	85.1	1797.0	897.0	-48.4
4	ok 3316	0.08	9.78e-02	5.20e-02	10.1	10.1	5.7	5.7	-119.7	-45.4	242.9	424.8	487.6	58.5
4	ok 3319	0.08	9.74e-02	6.88e-02	10.1	10.1	5.7	5.7	-68.0	-243.4	253.2	513.6	127.2	364.8
4	ok 3322	0.08	0.4	0.1	10.1	10.1	5.7	5.7	112.1	-431.3	198.1	-1681.0	-1571.2	-122.0
4	ok 3335	0.08	0.8	0.1	10.7	10.1	6.4	5.7	-286.4	-726.8	315.0	-282.3	-2417.2	-800.1
4	ok 3561	0.08	8.48e-02	7.13e-02	10.1	10.1	5.7	5.7	-491.5	-170.2	-110.2	238.1	123.9	-159.5
4	ok 3583	0.08	0.2	4.86e-02	10.1	10.1	5.7	5.7	-274.0	-292.5	-4.5	2000.4	581.3	450.0
4	ok 3605	0.08	9.54e-02	5.14e-02	10.1	10.1	5.7	5.7	-33.8	-346.5	84.4	78.7	82.6	525.1
4	ok 3627	0.08	0.1	7.41e-02	10.1	10.1	5.7	5.7	-75.4	-546.8	50.0	1215.6	239.1	616.4
4	ok 3649	0.08	0.2	0.1	10.1	10.1	5.7	5.7	54.5	-822.4	58.7	-668.5	-1227.4	307.5
4	ok 3672	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-404.9	-1389.2	181.7	1194.5	-918.3	-617.3

M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-491.52	-1389.17	-776.46	-2075.28	-5633.93	-800.12
		0.13	0.94	0.19	24.99	25.48	41.16	38.69	484.51	2420.33	393.17	2000.41	896.97	860.25

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
5	ok 72	0.08	0.1	3.71e-02	10.1	10.1	5.7	5.7	-194.8	-96.9	128.9	462.7	-902.6	840.9
5	ok 96	0.08	0.3	2.75e-02	10.1	10.1	5.7	5.7	-54.7	98.0	123.3	-3561.9	-376.1	1499.0
5	ok 120	0.08	0.4	4.02e-02	10.1	10.1	5.7	5.7	-71.1	177.2	159.9	-7144.4	-675.8	513.0
5	ok 144	0.08	0.8	4.26e-02	10.4	10.1	6.0	5.7	-45.3	200.9	114.1	-7686.6	-815.1	-616.9
5	ok 168	0.08	0.8	3.53e-02	11.3	10.1	6.9	5.7	44.2	231.7	138.1	-5196.1	-912.6	-1183.3
5	ok 192	0.08	0.3	3.20e-02	10.1	10.1	5.7	5.7	113.8	221.1	154.4	492.9	-1109.5	605.3
5	ok 1430	0.08	0.9	3.35e-02	10.6	10.1	6.6	5.7	-89.7	57.3	137.7	-284.7	-6589.5	760.9
5	ok 1433	0.08	0.8	2.88e-02	10.1	10.1	5.7	5.7	-72.7	37.3	167.0	3257.9	1483.9	4224.6
5	ok 1436	0.08	0.8	3.21e-02	10.1	10.6	5.7	6.2	-101.5	114.9	161.4	4728.5	3865.0	2201.4
5	ok 1439	0.08	0.7	3.50e-02	10.1	10.1	5.7	5.7	-39.3	164.7	135.1	3965.9	3420.6	-1613.2
5	ok 1442	0.08	0.4	3.09e-02	10.1	10.1	5.7	5.7	41.0	146.0	123.8	2204.9	1297.3	-3562.9
5	ok 1464	0.08	0.9	2.14e-02	10.7	10.1	7.2	5.7	73.7	86.3	82.7	-621.8	-7178.7	-198.2
5	ok 1576	0.09	1.0	2.44e-02	12.8	10.1	15.0	5.7	-40.7	176.3	174.4	-1964.5	-1.442e+04	-407.5
5	ok 1579	0.08	0.8	2.62e-02	10.1	10.1	5.7	5.7	-90.4	157.6	151.8	2860.4	1193.6	1906.6
5	ok 1582	0.08	0.9	2.65e-02	10.1	11.7	5.7	8.0	-85.3	134.6	152.3	5851.8	6611.6	1465.7
5	ok 1585	0.08	0.9	2.67e-02	10.1	10.7	5.7	7.0	-39.8	130.4	151.2	5716.6	6565.2	-852.6
5	ok 1588	0.08	0.3	2.33e-02	10.1	10.1	5.7	5.7	14.4	111.5	122.8	2894.6	1482.4	-1754.0
5	ok 1610	0.08	1.0	2.30e-02	10.7	10.1	11.1	5.7	47.0	96.5	94.7	-1800.3	-1.438e+04	236.9
5	ok 1722	0.10	1.0	2.51e-02	12.6	10.1	19.3	5.7	-13.7	282.4	87.6	-4103.9	-2.153e+04	-1701.9
5	ok 1725	0.08	0.8	2.54e-02	10.3	10.1	7.6	5.7	-116.1	241.1	-34.3	-874.5	-5374.0	-561.6
5	ok 1728	0.08	0.9	2.42e-02	10.1	11.2	5.7	8.4	-91.4	159.9	130.1	4495.9	7356.1	656.1
5	ok 1731	0.08	0.9	2.30e-02	10.1	10.7	5.7	7.6	-76.6	114.8	112.5	4770.8	7928.8	178.3
5	ok 1734	0.08	0.2	2.05e-02	10.1	10.1	5.7	5.7	-45.0	86.8	97.6	1972.9	548.0	-185.2
5	ok 1756	0.08	1.0	2.09e-02	10.5	10.1	12.5	5.7	-36.6	82.6	-174.7	-1634.2	-1.016e+04	-174.8
5	ok 1868	0.10	1.0	2.55e-02	11.9	10.1	20.4	5.7	-67.7	297.4	-53.3	-4653.3	-2.254e+04	-1162.0
5	ok 1871	0.08	0.9	2.46e-02	10.2	10.1	9.1	5.7	-129.7	269.8	-61.9	-2090.5	-7252.0	-1274.7
5	ok 1874	0.08	0.9	2.22e-02	10.1	10.5	5.7	7.4	-128.0	231.0	-83.1	-168.0	1322.0	70.2
5	ok 1877	0.08	0.9	2.03e-02	10.1	10.7	5.7	7.1	-114.7	197.1	-98.4	855.6	3654.1	757.0
5	ok 1880	0.08	0.2	2.06e-02	10.1	10.1	5.7	5.7	-90.3	167.4	-104.0	235.1	1184.6	900.6
5	ok 1902	0.08	1.0	2.03e-02	10.4	10.1	11.5	5.7	-50.8	122.1	-172.1	-1489.7	-8398.4	-436.8
5	ok 2017	0.10	1.0	2.61e-02	11.0	10.1	19.3	5.7	-117.6	275.6	-54.4	-4634.6	-2.182e+04	-256.5
5	ok 2020	0.08	0.9	2.38e-02	10.2	10.1	9.5	5.7	-145.9	255.1	-82.7	-2616.1	-8159.5	-919.3
5	ok 2023	0.08	0.9	2.27e-02	10.1	10.1	5.7	5.9	-146.8	233.2	-97.2	-1097.7	-300.3	-280.7
5	ok 2026	0.08	0.9	2.10e-02	10.1	10.2	5.7	6.1	-117.1	222.1	-118.5	121.5	2885.9	542.8
5	ok 2029	0.08	0.3	2.08e-02	10.1	10.1	5.7	5.7	-59.2	203.1	-134.0	101.9	1399.2	744.4
5	ok 2051	0.08	1.0	2.19e-02	10.3	10.1	8.8	5.7	-96.0	148.8	-141.6	-1264.9	-5490.3	-419.2
5	ok 2201	0.09	1.0	2.77e-02	10.3	10.1	16.8	5.7	-183.6	235.7	-50.6	-4185.5	-1.922e+04	616.5

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
5	ok 2204	0.08	0.9	2.48e-02	10.1	10.1	8.9	5.7	-169.8	222.2	-89.7	-2647.6	-7997.4	-393.9
5	ok 2207	0.08	0.6	2.39e-02	10.1	10.1	5.7	5.7	-151.2	218.9	-106.7	-1464.5	-1089.0	-508.2
5	ok 2210	0.08	0.7	2.15e-02	10.1	10.1	5.7	5.7	-129.7	225.2	-119.4	-332.0	2135.8	129.7
5	ok 2213	0.08	0.5	2.04e-02	10.1	10.1	5.7	5.7	-89.1	254.4	-136.0	137.2	1635.2	449.5
5	ok 2235	0.08	0.9	2.73e-02	10.4	10.1	6.8	5.7	-124.6	248.3	-170.8	-1335.9	-3428.1	-182.7
5	ok 2791	0.08	1.0	3.80e-02	10.2	10.1	12.7	5.7	-287.6	149.5	-57.0	-3434.7	-1.502e+04	1378.0
5	ok 2794	0.08	0.9	2.79e-02	10.2	10.1	7.4	5.7	-195.7	173.5	-81.7	-2387.8	-6927.5	180.2
5	ok 2797	0.08	0.4	2.24e-02	10.1	10.1	5.7	5.7	-147.2	190.2	-94.4	-1521.1	-1425.6	-656.3
5	ok 2800	0.08	0.5	1.97e-02	10.1	10.1	5.7	5.7	-129.0	229.3	-93.8	-528.8	1401.8	-321.6
5	ok 2803	0.08	0.8	2.22e-02	10.1	10.2	5.7	5.8	-114.9	299.1	-114.0	149.3	1486.5	66.8
5	ok 2825	0.08	0.9	2.38e-02	10.1	10.1	5.7	5.7	2.7	314.7	-133.7	26.8	-335.7	-166.6
5	ok 3051	0.08	0.9	6.71e-02	10.8	10.1	8.2	5.7	-510.9	42.4	-76.2	-3163.1	-1.033e+04	1818.9
5	ok 3054	0.08	0.8	3.78e-02	10.1	10.1	5.7	5.7	-198.8	67.8	-91.3	-1737.7	-4966.9	688.9
5	ok 3057	0.08	0.2	2.28e-02	10.1	10.1	5.7	5.7	-79.8	73.4	-53.7	-1062.7	-1178.5	-775.9
5	ok 3060	0.08	0.3	2.20e-02	10.1	10.1	5.7	5.7	-103.5	279.2	40.8	-231.3	935.1	-655.4
5	ok 3063	0.08	0.8	3.41e-02	10.1	10.3	5.7	6.8	-214.6	401.1	-15.6	67.8	1235.6	-349.7
5	ok 3085	0.08	0.7	3.28e-02	10.6	11.0	7.7	8.3	-13.4	529.1	-124.4	756.0	281.6	-310.7
5	ok 3311	0.08	0.5	0.1	10.1	10.1	5.7	5.7	-942.9	-298.4	-11.1	-4721.7	-5601.1	1642.4
5	ok 3314	0.08	0.3	3.37e-02	10.1	10.1	5.7	5.7	42.4	-95.8	-107.0	-994.0	-2104.3	203.2
5	ok 3317	0.08	0.2	2.79e-02	10.1	10.1	5.7	5.7	-41.8	139.5	106.3	288.9	-406.2	-1049.2
5	ok 3320	0.08	0.2	3.59e-02	10.1	10.1	5.7	5.7	-92.9	234.3	178.7	731.3	521.1	-657.0
5	ok 3323	0.08	0.8	4.27e-02	10.9	11.3	6.5	7.0	-115.9	294.4	149.4	225.5	1436.3	120.4
5	ok 3345	0.08	0.6	4.29e-02	10.8	10.2	6.9	7.3	-18.9	401.7	108.9	-833.9	230.5	-292.1
5	ok 3571	0.08	0.7	0.1	10.3	10.5	6.0	6.1	-1017.4	357.9	-229.1	-1523.2	746.8	548.4
5	ok 3593	0.09	0.8	7.02e-02	14.5	12.5	10.1	8.1	500.9	486.2	202.1	1735.3	-954.3	-1386.9
5	ok 3615	0.08	0.2	4.39e-02	10.1	10.1	5.7	5.7	-28.2	134.2	150.3	2059.9	-15.6	-532.8
5	ok 3637	0.08	0.2	2.71e-02	10.1	10.1	5.7	5.7	-47.1	205.2	194.0	1763.2	382.3	-339.3
5	ok 3659	0.08	0.4	5.75e-02	10.1	10.1	5.7	5.7	-63.2	-222.8	-35.7	623.5	-972.2	1125.7
5	ok 3682	0.08	0.8	8.36e-02	10.1	11.7	5.7	7.3	-441.9	-180.6	282.4	-2947.6	158.5	1108.9

M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-1017.43	-298.37	-229.13	-7686.56	-2.254e+04	-3562.93
		0.10	0.97	0.14	14.46	12.46	20.38	8.40	500.94	529.13	282.36	5851.82	7928.79	4224.59

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
6	ok 171	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1725.3	-310.8	-124.6	-2.210e+04	-3036.3	456.0
6	ok 172	0.09	1.0	6.70e-02	14.8	10.1	7.9	5.7	-510.1	-94.0	-78.1	-2.147e+04	-5065.4	27.6
6	ok 173	0.10	1.0	5.09e-02	20.7	10.1	9.2	5.7	-366.4	-43.3	-56.8	-2.603e+04	-5530.5	-671.5
6	ok 174	0.12	1.0	5.03e-02	26.4	10.1	9.9	5.7	-323.5	-90.5	157.4	-1346.1	-302.3	380.3
6	ok 175	0.13	1.0	5.43e-02	29.7	10.1	9.9	5.7	-383.4	-116.0	149.1	-2015.2	-449.2	283.7
6	ok 176	0.13	1.0	5.70e-02	30.7	10.1	9.7	5.7	-424.6	-133.6	132.2	-2444.3	-539.1	159.7
6	ok 177	0.13	1.0	5.74e-02	29.4	10.1	9.2	5.7	-357.0	-93.9	-197.9	-2.858e+04	-5652.3	-444.0
6	ok 178	0.12	1.0	5.57e-02	25.8	10.1	8.7	5.7	-315.1	-75.8	-224.9	-2.559e+04	-4885.9	-282.9
6	ok 179	0.10	1.0	5.23e-02	20.3	10.1	7.8	5.7	-389.0	-112.5	44.7	-2839.0	-605.3	-78.4
6	ok 180	0.09	1.0	4.67e-02	13.8	10.1	7.3	5.7	-183.6	-8.0	-200.5	-1.440e+04	-2875.8	-62.8
6	ok 181	0.08	0.9	3.69e-02	10.2	10.1	5.8	5.7	-113.7	76.8	132.7	-9700.9	-2562.3	352.4
6	ok 182	0.08	0.8	3.02e-02	10.5	10.1	6.1	5.7	-7.3	169.9	299.3	-1.013e+04	592.7	962.3
6	ok 183	0.09	0.9	7.73e-02	14.5	10.1	10.1	5.7	-226.4	49.5	495.0	-1.600e+04	-3934.9	1078.3
6	ok 184	0.09	1.0	9.79e-02	15.1	10.1	10.7	5.7	-459.9	-94.0	353.6	-1.877e+04	-3802.6	846.0
6	ok 185	0.09	1.0	0.1	17.1	10.1	11.3	5.7	-631.1	-163.6	321.9	-2.303e+04	-4673.1	667.4
6	ok 186	0.10	1.0	0.1	18.3	10.1	9.9	5.7	-766.9	-214.5	279.2	-2.562e+04	-5236.1	372.6
6	ok 187	0.10	1.0	0.1	18.0	10.1	8.8	5.7	-868.5	-254.8	334.3	-2.630e+04	-5407.9	-54.4
6	ok 188	0.09	1.0	0.1	16.3	10.1	7.7	5.7	-904.7	-258.2	170.5	-2.500e+04	-5150.5	-438.1
6	ok 189	0.09	1.0	0.1	13.2	10.1	6.9	5.7	-886.7	-258.1	232.0	-2.147e+04	-4406.6	-855.1
6	ok 190	0.08	0.9	0.1	10.1	10.1	5.7	5.7	-754.2	-218.6	169.4	-1.555e+04	-3171.9	-1051.6
6	ok 191	0.08	0.6	6.42e-02	10.1	10.1	5.7	5.7	-441.4	-142.0	103.4	-7487.8	-1473.4	-953.0
6	ok 192	0.08	0.2	1.33e-02	10.1	10.1	5.7	5.7	151.9	-15.2	-16.8	-1858.7	257.7	21.4
6	ok 1443	0.08	0.8	0.1	12.6	10.4	8.2	6.0	-1130.7	-45.9	-19.8	-6105.6	-3535.3	-13.0
6	ok 1444	0.08	0.9	8.44e-02	11.6	10.1	7.2	5.7	-504.0	-114.3	-100.8	-9475.6	-4723.7	-2885.6
6	ok 1445	0.08	0.9	5.64e-02	11.5	10.1	7.1	5.7	-412.9	-90.0	-94.2	-1.079e+04	-3019.8	-4048.4
6	ok 1446	0.08	0.9	5.27e-02	11.6	10.1	7.2	5.7	-391.2	-53.8	-82.0	-1.169e+04	-1869.9	-3551.6
6	ok 1447	0.08	0.9	5.53e-02	10.9	10.1	6.6	5.7	-365.1	-35.5	-135.6	-9702.9	-1243.5	-2103.3
6	ok 1448	0.08	0.9	5.70e-02	10.1	10.1	5.7	5.7	-393.8	-59.8	132.7	-1608.0	-481.2	106.4
6	ok 1449	0.08	0.7	5.59e-02	10.1	10.1	5.7	5.7	-171.7	55.6	268.2	-9995.3	-726.8	1442.0
6	ok 1450	0.08	0.7	5.52e-02	10.1	10.1	5.7	5.7	-177.4	52.4	254.4	-8891.3	-637.6	2921.5
6	ok 1451	0.08	0.8	5.29e-02	10.1	10.1	5.7	5.7	-166.3	50.0	232.4	-7367.4	-815.2	4052.1
6	ok 1452	0.08	0.8	4.94e-02	10.1	10.1	5.7	5.7	-137.1	43.7	206.6	-5074.2	-1670.1	4353.7
6	ok 1453	0.08	0.7	4.36e-02	10.1	10.1	5.7	5.7	-149.2	-30.4	192.0	-2910.8	-2433.7	2807.4
6	ok 1454	0.08	0.6	7.30e-02	10.1	10.1	5.7	5.7	-234.7	0.9	239.2	-2257.5	-3271.9	537.7
6	ok 1455	0.08	0.8	8.52e-02	11.9	10.1	7.5	5.7	-221.4	18.8	468.6	-4087.2	-1216.0	-1901.5
6	ok 1456	0.08	0.8	9.62e-02	10.9	10.1	6.5	5.7	-400.1	10.1	460.2	-6604.7	-1262.1	-1551.6
6	ok 1457	0.08	0.7	0.1	10.1	10.1	5.7	5.7	-591.9	-18.3	372.8	-7090.2	-1225.3	-740.6

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
6	ok 1458	0.08	0.5	0.1	10.1	10.1	5.7	5.7	-719.4	-16.2	321.1	-8045.3	-1555.0	-261.3
6	ok 1459	0.08	0.4	0.1	10.1	10.1	5.7	5.7	-811.6	-36.8	306.2	-8209.7	-1723.5	141.6
6	ok 1460	0.08	0.3	0.1	10.1	10.1	5.7	5.7	-849.3	-11.2	236.3	-7444.8	-1521.7	493.3
6	ok 1461	0.08	0.3	0.1	10.1	10.1	5.7	5.7	-785.2	50.4	136.3	-5653.7	-950.3	1253.5
6	ok 1462	0.08	0.4	8.91e-02	10.1	10.1	5.7	5.7	-639.9	82.6	-126.0	-4224.9	-57.6	2277.4
6	ok 1463	0.08	0.5	6.29e-02	10.1	10.1	5.7	5.7	-353.5	153.0	-166.8	-1620.7	242.0	3242.3
6	ok 1464	0.08	0.8	2.30e-02	10.4	10.1	6.0	5.7	81.6	241.0	-163.4	-678.6	-988.3	1276.0
6	ok 1589	0.09	0.9	7.24e-02	14.4	10.1	12.7	5.7	-449.2	133.2	172.8	-1120.5	-1.152e+04	-3199.9
6	ok 1590	0.08	0.9	6.84e-02	12.1	10.1	7.7	5.7	-388.6	93.8	112.0	767.7	-3000.4	-7783.4
6	ok 1591	0.08	0.7	5.55e-02	10.1	10.1	5.7	5.7	-230.8	69.0	194.4	2188.4	2341.8	-7608.7
6	ok 1592	0.08	0.7	5.04e-02	10.1	10.1	5.7	5.7	-220.0	58.0	208.8	2895.4	4449.8	-5420.2
6	ok 1593	0.08	0.7	4.95e-02	10.1	10.1	5.7	5.7	-220.4	54.8	198.2	3219.1	5255.9	-3043.9
6	ok 1594	0.08	0.8	4.96e-02	10.1	10.4	5.7	6.0	-138.1	110.1	271.5	3232.8	4226.9	-410.3
6	ok 1595	0.08	0.8	4.90e-02	10.1	11.3	5.7	6.9	-153.6	105.3	284.4	2920.7	3959.5	1749.2
6	ok 1596	0.08	0.9	4.84e-02	10.1	11.7	5.7	7.3	-155.2	101.0	254.0	2517.7	3457.4	3498.5
6	ok 1597	0.08	0.9	4.70e-02	10.1	11.4	5.7	7.0	-122.8	90.4	247.1	1896.6	2149.1	4820.0
6	ok 1598	0.08	0.8	4.54e-02	10.1	10.1	5.7	5.7	-106.6	76.1	221.6	835.0	-903.0	5212.4
6	ok 1599	0.08	0.9	4.46e-02	10.5	10.1	6.1	5.7	-144.3	67.1	191.1	-730.7	-5192.4	3076.7
6	ok 1600	0.09	1.0	8.30e-02	14.4	10.1	10.6	5.7	-199.3	79.0	188.2	-2057.3	-1.033e+04	437.0
6	ok 1601	0.08	0.8	8.13e-02	10.8	10.1	6.4	5.7	-216.6	4.2	486.2	643.5	-1058.3	-2591.9
6	ok 1602	0.08	0.3	8.73e-02	10.1	10.1	5.7	5.7	-333.0	29.7	461.7	1724.4	1416.1	-2390.7
6	ok 1603	0.08	0.4	9.42e-02	10.1	10.1	5.7	5.7	-514.3	52.0	379.1	1747.0	1455.6	-1170.5
6	ok 1604	0.08	0.5	0.1	10.1	10.1	5.7	5.7	-624.4	80.2	324.8	1910.3	1278.1	-346.0
6	ok 1605	0.08	0.6	0.1	10.1	10.1	5.7	5.7	-695.8	115.7	255.3	2136.0	1107.9	382.2
6	ok 1606	0.08	0.6	0.1	10.1	10.1	5.7	5.7	-717.5	155.4	167.9	2296.9	1224.4	1047.7
6	ok 1607	0.08	0.8	9.23e-02	10.1	10.1	5.7	5.7	-673.3	198.3	73.7	2304.5	1586.9	1751.6
6	ok 1608	0.08	0.8	7.84e-02	10.1	10.1	5.7	5.7	-561.7	207.3	-175.5	3200.4	2455.1	2973.5
6	ok 1609	0.08	0.6	5.78e-02	10.1	10.1	5.7	5.7	-320.2	252.4	-248.8	1565.9	1060.5	3446.6
6	ok 1610	0.09	0.9	3.05e-02	12.8	10.1	10.3	5.7	41.2	287.0	-261.6	-1045.2	-5913.8	746.5
6	ok 1735	0.09	1.0	4.36e-02	14.8	10.1	16.8	5.7	-265.3	171.7	169.3	-2984.0	-1.853e+04	-2554.3
6	ok 1736	0.08	0.9	5.61e-02	12.0	10.1	7.6	5.7	-351.5	155.4	151.6	2657.6	-3419.6	-6159.1
6	ok 1737	0.08	0.9	5.18e-02	10.1	10.1	5.7	5.7	-306.8	131.5	122.9	7186.2	4344.3	-6167.0
6	ok 1738	0.08	0.9	4.65e-02	10.1	10.7	5.7	7.2	-210.4	101.3	217.1	1.077e+04	8099.8	-4717.3
6	ok 1739	0.08	0.9	4.44e-02	10.1	11.4	5.7	8.6	-200.8	93.9	199.8	1.272e+04	9781.8	-2764.7
6	ok 1740	0.09	0.9	4.34e-02	10.1	13.3	5.7	10.0	-122.2	146.4	291.5	9585.1	7908.3	-434.4
6	ok 1741	0.09	0.9	4.25e-02	10.1	14.4	5.7	10.8	-126.9	145.3	268.1	9261.4	7636.6	1178.4
6	ok 1742	0.09	0.9	4.30e-02	10.1	15.0	5.7	10.6	-111.5	146.4	273.2	8036.0	6505.4	2662.5
6	ok 1743	0.09	0.9	4.19e-02	10.1	13.5	5.7	9.1	-107.4	136.5	258.1	5731.4	4060.5	3869.8
6	ok 1744	0.08	0.8	4.10e-02	10.1	10.1	5.7	5.7	-90.3	124.6	233.9	2668.4	-858.3	4026.3
6	ok 1745	0.08	0.9	4.16e-02	10.8	10.1	8.8	5.7	-111.3	120.9	187.9	-985.0	-7921.7	2218.5
6	ok 1746	0.09	1.0	7.32e-02	16.5	10.1	17.3	5.7	-132.0	125.1	165.0	-3134.8	-1.643e+04	471.3
6	ok 1747	0.08	0.8	7.24e-02	10.4	10.1	6.0	5.7	-197.9	35.9	450.2	1061.6	-1086.2	-1570.1
6	ok 1748	0.08	0.8	7.67e-02	10.1	10.1	5.7	5.7	-357.7	75.7	378.4	3184.0	2364.4	-1124.3
6	ok 1749	0.08	0.8	8.23e-02	10.1	11.1	5.7	6.7	-453.6	117.7	344.0	4895.6	3108.0	-407.7
6	ok 1750	0.08	0.9	8.66e-02	10.1	11.2	5.7	6.8	-542.4	153.5	290.9	5891.4	2807.8	100.0
6	ok 1751	0.08	0.9	8.78e-02	10.1	11.0	5.7	6.6	-596.7	189.1	218.9	6229.0	2587.5	485.9
6	ok 1752	0.08	0.9	8.48e-02	10.1	10.8	5.7	6.4	-606.8	224.8	128.8	5994.4	2604.8	819.3
6	ok 1753	0.08	0.9	7.93e-02	10.1	10.4	5.7	6.5	-591.4	206.8	-126.6	7311.9	3826.5	1227.2
6	ok 1754	0.08	0.8	6.92e-02	10.1	10.3	5.7	6.0	-470.6	230.0	-209.2	5297.7	3373.3	1473.2
6	ok 1755	0.08	0.6	5.48e-02	10.1	10.1	5.7	5.7	-276.6	242.3	-269.6	2022.0	572.7	1333.1
6	ok 1756	0.08	0.9	3.67e-02	12.6	10.1	12.1	5.7	-37.1	239.6	-214.3	-1514.9	-8986.0	272.5
6	ok 1881	0.10	1.0	3.51e-02	14.6	10.1	18.5	5.7	-216.9	173.1	161.3	-3341.8	-2.129e+04	-1517.4
6	ok 1882	0.08	0.8	4.61e-02	11.6	10.1	7.2	5.7	-256.2	185.6	187.1	2890.3	-4267.7	-3149.5
6	ok 1883	0.08	0.9	4.54e-02	10.1	10.8	5.7	6.6	-198.2	137.9	231.0	8802.9	6089.7	-3218.2
6	ok 1884	0.08	0.9	4.13e-02	10.1	12.4	5.7	9.8	-202.9	122.3	228.9	1.303e+04	1.104e+04	-2710.6
6	ok 1885	0.09	0.9	3.92e-02	10.1	13.6	5.7	11.8	-170.8	121.4	204.3	1.574e+04	1.343e+04	-1584.7
6	ok 1886	0.09	0.9	3.77e-02	10.1	14.7	5.7	12.9	-110.7	168.5	268.4	1.184e+04	1.004e+04	-334.6
6	ok 1887	0.09	0.9	3.65e-02	10.1	15.1	5.7	13.0	-113.1	177.2	265.0	1.140e+04	9566.4	583.5
6	ok 1888	0.09	0.9	3.75e-02	10.1	14.9	5.7	12.1	-99.0	185.2	259.6	9777.7	8026.4	1350.7
6	ok 1889	0.09	0.9	3.70e-02	10.1	13.4	5.7	9.2	-73.2	197.7	261.3	7033.2	4944.4	1697.1
6	ok 1890	0.08	0.6	3.62e-02	10.1	10.1	5.7	5.7	-56.4	189.1	247.4	2917.2	-1187.5	1714.7
6	ok 1891	0.08	1.0	3.56e-02	11.0	10.1	10.9	5.7	33.0	152.3	214.4	-1569.9	-1.136e+04	1252.1
6	ok 1892	0.10	1.0	5.85e-02	16.9	10.1	20.8	5.7	82.9	141.6	140.8	-5067.7	-2.276e+04	557.0
6	ok 1893	0.08	0.7	6.10e-02	10.1	10.1	5.7	5.7	-79.6	88.6	386.3	-159.7	-1879.7	58.0
6	ok 1894	0.08	0.8	6.65e-02	10.1	12.1	5.7	7.7	-306.6	138.0	343.8	2974.4	2986.7	781.3
6	ok 1895	0.08	0.8	7.14e-02	10.1	12.7	5.7	8.3	-394.5	162.3	313.2	5117.6	3505.5	891.1
6	ok 1896	0.08	0.8	7.40e-02	10.1	11.9	5.7	7.5	-460.1	188.4	259.8	6036.0	3051.5	699.2
6	ok 1897	0.08	0.8	7.36e-02	10.1	11.1	5.7	6.7	-496.7	215.6	187.6	6173.0	2725.1	480.0
6	ok 1898	0.08	0.8	7.00e-02	10.1	10.5	5.7	6.2	-497.8	237.9	98.7	5740.6	2570.5	275.0
6	ok 1899	0.08	0.8	6.78e-02	10.1	10.3	5.7	6.0	-474.8	197.0	-145.7	6402.5	3561.4	-168.6
6	ok 1900	0.08	0.8	6.20e-02	10.1	10.5	5.7	6.1	-377.5	201.9	-214.0	4408.5	2939.1	-632.2
6	ok 1901	0.08	0.5	5.31e-02	10.1	10.1	5.7	5.7	-234.8	194.8	-264.5	1591.6	-424.8	-856.2
6	ok 1902	0.08	0.9	4.25e-02	11.8	10.1	11.0	5.7	-72.4	186.0	-266.1	-1680.0	-9035.7	-412.0
6	ok 2030	0.09	1.0	3.70e-02	13.3	10.1	17.4	5.7	-220.0	146.3	152.5	-3509.8	-2.113e+04	-359.0

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
6	ok 2031	0.08	0.9	4.24e-02	10.2	10.1	6.3	5.7	-230.5	167.6	197.5	2581.8	-4327.3	-116.9
6	ok 2032	0.08	0.9	4.14e-02	10.1	11.9	5.7	7.5	-174.2	130.8	236.3	8300.8	6017.3	-160.3
6	ok 2033	0.09	0.9	3.84e-02	10.1	14.2	5.7	11.2	-170.2	128.4	233.6	1.260e+04	1.146e+04	-319.3
6	ok 2034	0.09	0.9	3.52e-02	10.1	14.9	5.7	13.0	-155.3	130.2	205.6	1.537e+04	1.417e+04	-252.6
6	ok 2035	0.09	0.9	3.33e-02	10.1	14.9	5.7	13.9	-94.9	187.1	254.4	1.138e+04	1.055e+04	-145.5
6	ok 2036	0.09	0.9	3.16e-02	10.1	14.6	5.7	13.5	-94.5	203.6	251.4	1.102e+04	1.004e+04	-64.9
6	ok 2037	0.09	0.9	3.29e-02	10.1	13.9	5.7	12.4	-67.8	224.5	239.5	9525.9	8269.8	-74.8
6	ok 2038	0.08	0.9	3.35e-02	10.1	12.0	5.7	8.8	-51.2	258.5	238.1	6984.0	4719.2	-321.0
6	ok 2039	0.08	0.8	3.25e-02	11.0	10.1	6.6	5.7	-28.8	287.7	232.5	3650.4	-1591.4	-737.3
6	ok 2040	0.09	0.9	2.92e-02	13.6	10.1	13.9	5.7	43.1	282.4	270.9	526.6	-1.034e+04	-1365.2
6	ok 2041	0.11	1.0	3.75e-02	16.3	10.1	22.8	5.7	224.1	220.6	226.8	-5023.5	-2.205e+04	-179.0
6	ok 2042	0.08	0.8	5.30e-02	10.1	12.3	5.7	7.9	-192.7	178.9	354.7	437.3	714.4	2043.4
6	ok 2043	0.09	0.9	5.98e-02	10.1	14.2	5.7	9.8	-267.8	177.3	338.3	2999.8	3169.2	2594.4
6	ok 2044	0.08	0.8	6.29e-02	10.1	12.4	5.7	8.0	-334.1	180.6	300.1	3258.8	2503.4	1677.2
6	ok 2045	0.08	0.8	6.32e-02	10.1	10.6	5.7	6.2	-376.9	193.0	243.6	2929.2	1803.9	875.6
6	ok 2046	0.08	0.6	6.08e-02	10.1	10.1	5.7	5.7	-400.0	202.0	161.5	2531.0	1449.2	310.5
6	ok 2047	0.08	0.4	5.77e-02	10.1	10.1	5.7	5.7	-419.2	149.6	-77.8	2405.2	1770.2	-284.6
6	ok 2048	0.08	0.5	5.84e-02	10.1	10.1	5.7	5.7	-383.4	153.0	-156.2	1925.1	1823.2	-1085.6
6	ok 2049	0.08	0.6	5.67e-02	10.1	10.1	5.7	5.7	-312.6	150.7	-213.3	1212.2	1564.4	-1949.7
6	ok 2050	0.08	0.4	5.33e-02	10.1	10.1	5.7	5.7	-210.1	138.3	-225.6	-102.1	-432.4	-2322.6
6	ok 2051	0.08	0.9	4.67e-02	11.1	10.1	8.9	5.7	-99.6	120.5	-245.8	-1710.2	-6578.4	-565.0
6	ok 2214	0.09	1.0	4.09e-02	11.9	10.1	15.0	5.7	-248.0	114.9	143.1	-3019.1	-1.881e+04	680.8
6	ok 2215	0.08	0.8	4.26e-02	10.1	10.1	5.7	5.7	-234.1	132.0	193.2	1836.4	-4399.9	2793.6
6	ok 2216	0.08	0.9	3.89e-02	10.1	12.6	5.7	8.2	-167.8	106.2	233.5	6903.7	5311.0	2472.6
6	ok 2217	0.09	0.9	3.71e-02	10.1	14.7	5.7	11.1	-141.3	118.2	208.2	1.071e+04	1.050e+04	1826.8
6	ok 2218	0.09	0.9	3.06e-02	10.1	15.2	5.7	12.8	-72.9	178.6	225.4	8829.9	9122.1	793.9
6	ok 2219	0.09	0.9	2.90e-02	10.1	14.5	5.7	13.2	-74.3	199.9	228.1	9586.3	9788.1	124.4
6	ok 2220	0.09	0.9	2.70e-02	10.1	13.7	5.7	13.1	-66.3	223.1	228.9	9334.2	9314.5	-586.7
6	ok 2221	0.08	0.9	2.95e-02	10.1	11.8	5.7	11.2	-58.0	262.6	220.5	8091.4	7562.6	-1203.7
6	ok 2222	0.08	0.9	3.09e-02	10.1	10.8	5.7	8.0	-17.7	300.4	199.4	6140.2	4080.2	-1681.8
6	ok 2223	0.08	0.9	3.04e-02	11.6	10.1	8.4	5.7	0.8	354.2	176.6	3915.0	-2019.9	-1864.0
6	ok 2224	0.09	0.9	3.21e-02	13.5	10.1	15.6	5.7	3.1	424.0	167.6	2863.6	-9806.8	-1031.6
6	ok 2225	0.11	1.0	3.23e-02	16.2	11.1	23.4	7.3	-9.3	598.6	113.6	4020.5	-1.427e+04	976.0
6	ok 2226	0.09	0.9	5.45e-02	10.1	16.2	5.7	11.8	-182.0	179.4	374.4	7535.4	4483.8	2057.3
6	ok 2227	0.08	0.8	5.85e-02	10.1	12.0	5.7	7.6	-156.7	182.4	30.4	4805.7	2817.2	607.2
6	ok 2228	0.08	0.5	5.80e-02	10.1	10.1	5.7	5.7	-289.1	164.3	273.9	-2087.5	493.8	768.4
6	ok 2229	0.08	0.4	5.43e-02	10.1	10.1	5.7	5.7	-319.9	168.2	215.7	-3983.1	-219.9	350.5
6	ok 2230	0.08	0.5	4.99e-02	10.1	10.1	5.7	5.7	-335.0	162.0	165.7	-4836.2	-541.5	-42.7
6	ok 2231	0.08	0.5	5.11e-02	10.1	10.1	5.7	5.7	-326.7	155.4	86.1	-5050.8	-598.4	-366.2
6	ok 2232	0.08	0.5	5.44e-02	10.1	10.1	5.7	5.7	-313.0	82.8	-132.1	-6667.0	-740.4	-1000.8
6	ok 2233	0.08	0.4	5.56e-02	10.1	10.1	5.7	5.7	-269.6	73.7	-230.8	-5084.4	-508.3	-1341.0
6	ok 2234	0.08	0.4	5.54e-02	10.1	10.1	5.7	5.7	-207.9	74.4	-252.4	-2495.3	-649.6	-1443.5
6	ok 2235	0.08	0.8	4.59e-02	10.2	10.1	6.5	5.7	-140.6	83.6	-200.8	-964.0	-3559.7	-108.1
6	ok 2804	0.08	1.0	6.16e-02	10.8	10.1	11.0	5.7	-307.6	80.5	148.8	-2536.0	-1.471e+04	1759.3
6	ok 2805	0.08	0.6	4.78e-02	10.1	10.1	5.7	5.7	-235.3	106.4	194.2	1114.8	-3890.6	5322.1
6	ok 2806	0.08	0.9	4.19e-02	10.1	12.3	5.7	7.9	-213.7	131.2	225.8	3273.9	2465.5	3491.7
6	ok 2807	0.09	0.9	3.42e-02	10.1	14.6	5.7	10.2	-130.4	164.4	200.6	5060.8	5620.7	2741.5
6	ok 2808	0.09	0.9	2.73e-02	10.1	14.5	5.7	11.3	-56.1	182.5	199.4	6364.0	7366.1	1563.4
6	ok 2809	0.09	0.9	2.30e-02	10.1	14.1	5.7	12.0	-58.8	208.0	203.3	6973.1	7966.4	286.8
6	ok 2810	0.08	0.9	2.22e-02	10.1	11.9	5.7	11.4	-45.0	261.8	216.1	6787.2	7562.9	-1020.0
6	ok 2811	0.08	0.9	2.63e-02	10.1	10.5	5.7	9.7	-11.0	284.4	183.1	5902.0	6087.8	-2052.5
6	ok 2812	0.08	0.8	3.22e-02	10.1	10.6	5.7	7.3	-27.2	336.3	148.9	4512.8	3221.6	-2441.1
6	ok 2813	0.08	0.8	3.18e-02	11.3	10.1	7.3	5.7	-23.6	357.4	137.5	3084.2	-1436.9	-2250.5
6	ok 2814	0.09	0.9	2.61e-02	13.1	10.1	12.4	5.7	38.4	351.6	138.6	856.0	-7162.9	-945.6
6	ok 2815	0.09	1.0	2.14e-02	11.5	10.1	15.2	5.7	103.7	301.0	170.9	-1262.2	-1.211e+04	656.7
6	ok 2816	0.08	0.5	2.60e-02	10.1	10.1	5.7	5.7	-144.2	265.7	65.3	-1016.3	-618.2	808.2
6	ok 2817	0.08	0.6	2.56e-02	10.1	10.1	5.7	5.7	-152.8	228.3	47.5	953.7	1584.8	-620.3
6	ok 2818	0.08	0.4	2.81e-02	10.1	10.1	5.7	5.7	-146.5	218.3	29.2	335.4	1065.8	-502.6
6	ok 2819	0.08	0.2	3.12e-02	10.1	10.1	5.7	5.7	-167.9	161.3	-114.5	-1121.2	-83.3	-170.0
6	ok 2820	0.08	0.2	3.47e-02	10.1	10.1	5.7	5.7	-166.6	150.2	-154.1	-1271.9	-199.9	-227.4
6	ok 2821	0.08	0.2	3.79e-02	10.1	10.1	5.7	5.7	-179.6	125.8	-194.4	-1260.0	-213.8	-424.6
6	ok 2822	0.08	0.1	4.15e-02	10.1	10.1	5.7	5.7	-140.0	68.4	-239.8	-1192.5	-231.5	-587.1
6	ok 2823	0.08	0.2	4.44e-02	10.1	10.1	5.7	5.7	-133.6	90.9	-248.8	-705.8	-100.2	-787.0
6	ok 2824	0.08	0.2	4.17e-02	10.1	10.1	5.7	5.7	-154.0	82.3	-203.6	-691.1	-254.9	-998.1
6	ok 2825	0.08	0.5	3.55e-02	10.1	10.1	5.7	5.7	-140.4	78.7	-162.5	-533.7	-1213.1	-255.7
6	ok 3064	0.08	0.9	0.1	12.5	10.1	10.2	5.7	-837.4	-97.1	327.4	-2570.4	-8083.2	777.5
6	ok 3065	0.08	0.8	7.70e-02	10.1	10.7	5.7	6.3	111.8	58.3	416.8	-1057.1	-3333.0	3822.7
6	ok 3066	0.08	0.9	4.18e-02	10.1	12.0	5.7	7.6	-197.4	102.5	193.0	1768.2	1372.6	4404.0
6	ok 3067	0.09	0.9	2.90e-02	10.1	13.2	5.7	8.8	-76.0	132.1	187.3	2918.2	3704.9	3531.1
6	ok 3068	0.09	0.9	2.20e-02	10.1	13.8	5.7	9.6	-30.4	210.2	147.0	3843.2	4989.0	2164.0
6	ok 3069	0.08	0.9	1.64e-02	10.1	12.5	5.7	9.7	-35.5	244.0	125.9	4240.1	5400.3	506.8
6	ok 3070	0.08	0.9	1.72e-02	10.1	10.7	5.7	9.2	-27.8	290.1	183.6	4174.0	5142.7	-1246.6
6	ok 3071	0.08	0.9	2.20e-02	10.1	10.6	5.7	8.5	2.7	319.7	176.2	3548.1	4301.0	-2602.6
6	ok 3072	0.08	0.8	3.07e-02	10.1	10.9	5.7	7.2	33.6	331.5	155.0	1928.9	2474.1	-3569.3

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
6	ok 3073	0.09	0.8	5.46e-02	13.2	11.9	8.9	8.2	-268.0	202.3	143.0	-1596.4	-3155.5	-4608.6
6	ok 3074	0.09	0.9	3.27e-02	14.7	10.1	11.8	5.7	-38.8	127.1	207.4	-591.2	-8208.2	-3268.0
6	ok 3075	0.09	0.9	3.12e-02	15.3	10.1	14.0	5.7	78.7	74.9	226.3	-1738.1	-8132.2	-1036.8
6	ok 3076	0.08	0.6	2.13e-02	10.1	10.1	5.7	5.7	-116.6	266.2	74.5	-1282.4	-1933.1	663.4
6	ok 3077	0.08	0.3	1.88e-02	10.1	10.1	5.7	5.7	-88.4	248.6	90.2	-851.8	429.6	88.3
6	ok 3078	0.08	0.4	2.19e-02	10.1	10.1	5.7	5.7	-77.6	211.7	74.1	213.6	1445.0	-310.9
6	ok 3079	0.08	0.2	2.49e-02	10.1	10.1	5.7	5.7	-131.5	166.6	-109.7	-908.2	-75.0	-165.4
6	ok 3080	0.08	0.2	2.81e-02	10.1	10.1	5.7	5.7	-130.2	152.6	-134.2	-786.6	-150.2	-194.2
6	ok 3081	0.08	0.1	3.13e-02	10.1	10.1	5.7	5.7	-101.6	134.2	-165.8	-725.5	-262.3	-212.1
6	ok 3082	0.08	0.1	3.58e-02	10.1	10.1	5.7	5.7	-91.0	66.7	-222.6	-661.2	-407.5	-224.4
6	ok 3083	0.08	0.1	4.02e-02	10.1	10.1	5.7	5.7	-121.8	82.4	-197.6	63.2	-72.2	-682.1
6	ok 3084	0.08	0.3	4.86e-02	10.1	10.1	5.7	5.7	-8.5	34.8	-301.3	719.4	588.1	-716.3
6	ok 3085	0.08	0.6	4.40e-02	10.1	10.1	5.7	5.7	-188.5	65.0	-245.1	1870.8	2852.3	-331.7
6	ok 3324	0.08	0.8	0.2	10.8	12.0	6.4	7.2	-1624.9	-546.6	25.4	-5774.7	-4165.2	496.5
6	ok 3325	0.09	0.9	7.87e-02	13.2	11.4	8.8	7.0	389.5	-223.9	132.5	-765.4	-1649.3	6142.8
6	ok 3326	0.09	0.9	4.66e-02	10.1	13.1	5.7	8.7	18.1	197.5	-58.8	270.4	307.6	5477.6
6	ok 3327	0.08	0.9	2.31e-02	10.1	12.0	5.7	7.6	-21.4	180.4	115.4	1543.7	2579.9	5688.2
6	ok 3328	0.08	0.8	1.49e-02	10.1	11.8	5.7	7.4	-25.2	220.5	102.9	2115.0	3337.2	3458.6
6	ok 3329	0.08	0.8	1.14e-02	10.1	11.3	5.7	7.0	-23.6	294.8	72.0	2109.3	2321.0	641.2
6	ok 3330	0.08	0.8	1.34e-02	10.1	10.2	5.7	7.1	-20.2	353.8	87.1	2038.7	2021.8	-1671.5
6	ok 3331	0.08	0.8	1.62e-02	10.9	11.7	6.5	7.7	-20.7	389.4	76.8	1598.9	1590.7	-3743.7
6	ok 3332	0.09	0.8	3.78e-02	13.6	12.2	9.2	8.3	90.5	427.1	170.4	779.5	2662.2	-4994.1
6	ok 3333	0.09	0.9	6.79e-02	14.7	12.7	11.5	10.6	-385.6	229.0	214.0	-4147.5	-3507.2	-3160.9
6	ok 3334	0.11	1.0	6.24e-02	26.5	21.9	19.1	15.5	-89.5	449.8	266.2	-1534.5	-6472.2	-2083.7
6	ok 3335	0.09	0.9	8.89e-02	14.4	10.1	10.0	5.7	-255.4	-70.2	508.0	-2720.6	-4991.9	-610.3
6	ok 3336	0.08	0.7	3.45e-02	10.1	10.1	5.7	5.7	-79.5	282.6	91.2	-1013.8	-1360.4	70.2
6	ok 3337	0.08	0.3	1.76e-02	10.1	10.1	5.7	5.7	-27.6	217.3	87.9	-241.0	658.1	824.8
6	ok 3338	0.08	0.3	1.75e-02	10.1	10.1	5.7	5.7	-61.5	232.2	76.4	520.8	953.0	281.4
6	ok 3339	0.08	0.2	1.87e-02	10.1	10.1	5.7	5.7	-47.8	220.6	40.7	765.6	694.7	-150.1
6	ok 3340	0.08	0.2	2.11e-02	10.1	10.1	5.7	5.7	-61.5	173.2	-126.3	876.5	51.3	-119.8
6	ok 3341	0.08	0.2	2.40e-02	10.1	10.1	5.7	5.7	-56.3	156.8	-140.7	584.1	-47.1	-215.2
6	ok 3342	0.08	0.2	2.89e-02	10.1	10.1	5.7	5.7	-56.4	90.5	-160.3	811.1	-159.4	-262.8
6	ok 3343	0.08	0.2	3.84e-02	10.1	10.1	5.7	5.7	-36.7	79.3	-144.1	736.4	4.3	-727.2
6	ok 3344	0.08	0.2	5.03e-02	10.1	10.1	5.7	5.7	-205.8	-32.2	-223.9	911.5	96.5	-426.8
6	ok 3345	0.08	0.4	7.14e-02	10.1	10.1	5.7	5.7	-296.4	-160.1	-309.6	1548.7	2754.2	-158.3
6	ok 3660	0.10	0.4	0.2	10.9	11.7	16.6	16.2	-1588.4	1064.9	354.5	-5639.8	-821.5	2307.4
6	ok 3661	0.11	0.9	0.1	20.0	16.9	25.9	23.3	980.7	1460.9	-245.3	1316.3	1075.9	3139.9
6	ok 3662	0.09	0.8	7.70e-02	14.3	11.8	15.6	13.1	-65.3	-461.0	294.4	755.5	181.2	1871.3
6	ok 3663	0.08	0.8	1.49e-02	10.3	10.1	5.9	5.8	-19.8	289.2	38.1	-568.2	756.5	2767.5
6	ok 3664	0.08	0.8	8.58e-03	10.1	10.1	5.7	5.7	-29.6	303.8	63.8	416.1	826.3	1247.9
6	ok 3665	0.08	0.7	8.56e-03	10.1	10.1	5.7	5.7	-20.2	335.2	61.4	391.9	869.7	365.2
6	ok 3666	0.08	0.7	9.10e-03	10.1	10.1	5.7	6.0	-27.4	369.0	39.3	345.7	786.5	-597.1
6	ok 3667	0.08	0.7	1.52e-02	10.9	10.6	6.9	6.9	-8.0	430.5	106.9	271.7	393.5	-1562.7
6	ok 3668	0.09	0.7	2.86e-02	12.3	11.5	11.3	12.3	57.3	771.4	133.3	1420.0	1408.1	-2324.2
6	ok 3669	0.09	0.9	5.70e-02	14.6	12.6	13.0	16.2	6.1	513.9	205.2	-2071.0	3854.1	-2700.3
6	ok 3670	0.10	0.9	0.1	16.1	19.7	15.3	18.4	438.9	839.9	269.0	1045.7	1828.7	5293.1
6	ok 3671	0.13	1.0	0.2	28.9	17.8	30.3	13.4	-790.8	-138.8	716.5	-6378.3	-1160.2	1946.8
6	ok 3672	0.10	0.9	7.73e-02	15.2	18.0	18.0	16.5	52.5	319.2	-135.9	3043.1	-2906.6	-1652.7
6	ok 3673	0.08	0.8	1.96e-02	10.1	10.7	5.7	6.3	58.9	-13.8	167.4	461.8	-157.2	298.6
6	ok 3674	0.08	0.3	1.56e-02	10.1	10.1	5.7	5.7	-32.3	239.8	84.5	647.4	632.7	581.3
6	ok 3675	0.08	0.3	1.55e-02	10.1	10.1	5.7	5.7	-36.8	253.3	57.4	1029.9	693.4	333.1
6	ok 3676	0.08	0.2	1.64e-02	10.1	10.1	5.7	5.7	-35.5	240.9	41.6	1341.6	552.2	-20.6
6	ok 3677	0.08	0.2	1.78e-02	10.1	10.1	5.7	5.7	-43.3	191.1	-98.8	2312.9	276.4	55.0
6	ok 3678	0.08	0.2	2.10e-02	10.1	10.1	5.7	5.7	-45.2	189.6	-73.5	1910.3	390.3	-236.8
6	ok 3679	0.08	0.2	2.46e-02	10.1	10.1	5.7	5.7	-44.2	161.1	-113.2	1712.8	269.5	-350.8
6	ok 3680	0.08	0.1	3.52e-02	10.1	10.1	5.7	5.7	-47.9	133.3	-117.8	1221.0	150.5	-388.4
6	ok 3681	0.08	0.5	6.72e-02	10.1	10.1	5.7	5.8	302.6	388.9	41.0	364.6	103.3	142.4
6	ok 3682	0.08	0.5	8.37e-02	10.1	10.1	5.7	5.7	-464.0	298.2	-174.2	84.1	285.2	-303.4
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N z**	**N o**	**N zo**	**M z**	**M o**	**M zo**
									-1725.28	-546.60	-309.57	-2.858e+04	-2.276e+04	-7783.45
	Max	0.13	0.99	0.22	30.75	21.94	30.25	23.35	980.67	1460.92	716.53	1.574e+04	1.417e+04	6142.83

L’armatura delle pareti della vasca è costituita da una maglia base di 1+1ϕ16/20 vert. e 1+1ϕ12/20 oriz., a cui si aggiungono ferri alternati ove necessario.

2.12.4 STATI LIMITE D' ESERCIZIO

TABELLA STATI LIMITE D' ESERCIZIO

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1344	0.16	0.65	0.0	98,98,0	0.0	0.0	0.0	0,0,0
1345	0.26	0.62	0.0	98,95,0	0.12	0.0	0.0	95,0,0
1346	0.31	0.63	0.0	98,95,0	0.15	0.0	0.0	95,0,0
1347	0.35	0.63	0.0	98,95,0	0.16	0.0	0.0	95,0,0
1348	0.36	0.65	0.0	98,95,0	0.17	0.0	0.0	95,0,0
1349	0.37	0.66	0.0	98,95,0	0.17	0.0	0.0	95,0,0
1350	0.36	0.69	0.0	98,95,0	0.18	0.0	0.0	95,0,0
1351	0.35	0.73	0.0	98,95,0	0.18	0.0	0.0	95,0,0
1352	0.31	0.72	0.0	98,95,0	0.16	0.0	0.0	95,0,0
1353	0.21	0.58	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1354	0.15	0.57	0.0	97,95,0	0.0	0.0	0.0	0,0,0
1355	0.15	0.49	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1356	0.27	0.61	0.0	99,96,0	0.16	0.0	0.0	96,0,0
1357	0.33	0.69	0.0	99,96,0	0.21	0.0	0.0	96,0,0
1358	0.37	0.71	0.0	99,96,0	0.17	0.0	0.0	96,0,0
1359	0.38	0.70	0.0	99,96,0	0.19	0.0	0.0	96,0,0
1360	0.38	0.69	0.0	99,96,0	0.19	0.0	0.0	96,0,0
1361	0.38	0.68	0.0	99,96,0	0.18	0.0	0.0	96,0,0
1362	0.35	0.68	0.0	96,96,0	0.17	0.0	0.0	96,0,0
1363	0.29	0.60	0.0	96,96,0	0.18	0.0	0.0	96,0,0
1364	0.16	0.64	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1365	0.10	0.47	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1366	0.12	0.64	0.0	96,95,0	0.0	0.0	0.0	0,0,0
1367	0.12	0.60	0.0	99,99,0	0.0	0.0	0.0	0,0,0
1368	0.14	0.52	0.0	95,95,0	0.0	0.0	0.0	0,0,0
1369	0.17	0.67	0.0	95,95,0	0.0	0.0	0.0	0,0,0
1370	0.08	0.59	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1371	0.15	0.58	0.0	95,95,0	0.0	0.0	0.0	0,0,0
1372	0.18	0.67	0.0	99,95,0	0.0	0.0	0.0	0,0,0
1373	0.09	0.54	0.0	96,100,0	0.0	0.0	0.0	0,0,0
1374	0.13	0.57	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1375	0.17	0.59	0.0	99,95,0	0.0	0.0	0.0	0,0,0
1376	0.09	0.49	0.0	96,99,0	0.0	0.0	0.0	0,0,0
1377	0.15	0.65	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1378	0.10	0.55	0.0	95,97,0	0.0	0.0	0.0	0,0,0
1379	0.14	0.56	0.0	100,99,0	0.0	0.0	0.0	0,0,0
1380	0.30	0.67	0.0	95,95,0	0.14	0.0	0.0	95,0,0
1381	0.36	0.61	0.0	95,95,0	0.14	0.0	0.0	95,0,0
1382	0.40	0.61	0.0	95,95,0	0.16	0.0	0.0	95,0,0
1383	0.43	0.60	0.0	95,95,0	0.16	0.0	0.0	95,0,0
1384	0.45	0.60	0.0	95,95,0	0.16	0.0	0.0	95,0,0
1385	0.45	0.61	0.0	95,95,0	0.16	0.0	0.0	95,0,0
1386	0.44	0.61	0.0	97,95,0	0.16	0.0	0.0	95,0,0
1387	0.42	0.62	0.0	97,95,0	0.17	0.0	0.0	95,0,0
1388	0.37	0.64	0.0	97,95,0	0.16	0.0	0.0	95,0,0
1389	0.32	0.64	0.0	97,95,0	0.15	0.0	0.0	95,0,0
1390	0.25	0.63	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1391	0.25	0.55	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1392	0.34	0.55	0.0	97,97,0	0.11	0.0	0.0	97,0,0
1393	0.41	0.58	0.0	97,96,0	0.13	0.0	0.0	96,0,0
1394	0.45	0.59	0.0	97,96,0	0.15	0.0	0.0	96,0,0
1395	0.47	0.59	0.0	97,96,0	0.16	0.0	0.0	96,0,0
1396	0.47	0.59	0.0	97,96,0	0.16	0.0	0.0	96,0,0
1397	0.47	0.59	0.0	97,96,0	0.16	0.0	0.0	96,0,0
1398	0.43	0.57	0.0	97,96,0	0.15	0.0	0.0	96,0,0
1399	0.34	0.55	0.0	97,97,0	0.14	0.0	0.0	96,0,0
1400	0.16	0.69	0.0	97,100,0	0.0	0.0	0.0	0,0,0
1479	0.18	0.61	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1480	0.15	0.67	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1481	0.16	0.66	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1482	0.16	0.64	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1483	0.15	0.60	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1484	0.13	0.56	0.0	95,95,0	0.0	0.0	0.0	0,0,0
1485	0.15	0.59	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1486	0.15	0.65	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1487	0.15	0.68	0.0	100,95,0	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1488	0.18	0.73	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1489	0.24	0.61	0.0	97,97,0	0.11	0.0	0.0	97,0,0
1490	0.24	0.56	0.0	97,97,0	0.10	0.0	0.0	97,0,0
1491	0.16	0.61	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1492	0.17	0.66	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1493	0.17	0.64	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1494	0.15	0.62	0.0	100,96,0	0.0	0.0	0.0	0,0,0
1495	0.14	0.57	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1496	0.15	0.55	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1497	0.15	0.56	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1498	0.15	0.65	0.0	99,100,0	0.0	0.0	0.0	0,0,0
1499	0.19	0.66	0.0	99,100,0	0.12	0.0	0.0	100,0,0
1500	0.17	0.56	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1501	0.18	0.75	0.0	96,96,0	0.0	0.0	0.0	0,0,0
1502	0.18	0.63	0.0	99,99,0	0.12	0.0	0.0	100,0,0
1503	0.07	0.48	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1504	0.09	0.59	0.0	99,97,0	0.0	0.0	0.0	0,0,0
1505	0.08	0.57	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1506	0.07	0.47	0.0	95,100,0	0.0	0.0	0.0	0,0,0
1507	0.09	0.59	0.0	99,95,0	0.0	0.0	0.0	0,0,0
1508	0.09	0.56	0.0	100,99,0	0.0	0.0	0.0	0,0,0
1509	0.07	0.47	0.0	95,100,0	0.0	0.0	0.0	0,0,0
1510	0.08	0.62	0.0	96,95,0	0.0	0.0	0.0	0,0,0
1511	0.10	0.57	0.0	100,99,0	0.0	0.0	0.0	0,0,0
1512	0.15	0.60	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1513	0.17	0.74	0.0	98,96,0	0.0	0.0	0.0	0,0,0
1514	0.21	0.68	0.0	100,99,0	0.0	0.0	0.0	0,0,0
1515	0.16	0.64	0.0	95,100,0	0.0	0.0	0.0	0,0,0
1516	0.18	0.52	0.0	95,97,0	0.0	0.0	0.0	0,0,0
1517	0.20	0.51	0.0	95,97,0	0.0	0.0	0.0	0,0,0
1518	0.22	0.51	0.0	95,97,0	0.0	0.0	0.0	0,0,0
1519	0.22	0.51	0.0	95,95,0	0.0	0.0	0.0	0,0,0
1520	0.22	0.48	0.0	95,95,0	0.0	0.0	0.0	0,0,0
1521	0.21	0.42	0.0	95,100,0	0.0	0.0	0.0	0,0,0
1522	0.20	0.44	0.0	95,98,0	0.0	0.0	0.0	0,0,0
1523	0.18	0.46	0.0	97,98,0	0.0	0.0	0.0	0,0,0
1524	0.15	0.49	0.0	97,95,0	0.0	0.0	0.0	0,0,0
1525	0.18	0.55	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1526	0.15	0.52	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1527	0.12	0.46	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1528	0.13	0.42	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1529	0.14	0.34	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1530	0.14	0.34	0.0	97,99,0	0.0	0.0	0.0	0,0,0
1531	0.14	0.40	0.0	97,99,0	0.0	0.0	0.0	0,0,0
1532	0.13	0.51	0.0	97,100,0	0.0	0.0	0.0	0,0,0
1533	0.11	0.60	0.0	97,100,0	0.0	0.0	0.0	0,0,0
1534	0.10	0.69	0.0	99,97,0	0.0	0.0	0.0	0,0,0
1535	0.08	0.71	0.0	97,100,0	0.0	0.0	0.0	0,0,0
1614	0.22	0.61	0.0	98,95,0	0.10	0.0	0.0	100,0,0
1615	0.16	0.67	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1616	0.19	0.67	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1617	0.20	0.64	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1618	0.20	0.60	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1619	0.18	0.56	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1620	0.18	0.59	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1621	0.18	0.64	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1622	0.16	0.69	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1623	0.20	0.72	0.0	97,95,0	0.0	0.0	0.0	0,0,0
1624	0.29	0.59	0.0	100,97,0	0.11	0.0	0.0	97,0,0
1625	0.29	0.58	0.0	100,97,0	0.11	0.0	0.0	97,0,0
1626	0.16	0.60	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1627	0.20	0.74	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1628	0.20	0.71	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1629	0.20	0.63	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1630	0.19	0.57	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1631	0.19	0.55	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1632	0.18	0.56	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1633	0.15	0.64	0.0	99,99,0	0.0	0.0	0.0	0,0,0
1634	0.23	0.66	0.0	99,100,0	0.12	0.0	0.0	100,0,0
1635	0.20	0.58	0.0	100,100,0	0.10	0.0	0.0	100,0,0
1636	0.20	0.75	0.0	95,99,0	0.14	0.0	0.0	96,0,0
1637	0.22	0.63	0.0	99,99,0	0.12	0.0	0.0	100,0,0
1638	0.07	0.54	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1639	0.09	0.66	0.0	99,97,0	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1640	0.08	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1641	0.07	0.56	0.0	95,100,0	0.0	0.0	0.0	0,0,0
1642	0.09	0.62	0.0	99,97,0	0.0	0.0	0.0	0,0,0
1643	0.09	0.58	0.0	100,99,0	0.0	0.0	0.0	0,0,0
1644	0.07	0.56	0.0	95,100,0	0.0	0.0	0.0	0,0,0
1645	0.08	0.61	0.0	96,95,0	0.0	0.0	0.0	0,0,0
1646	0.10	0.61	0.0	100,99,0	0.0	0.0	0.0	0,0,0
1647	0.19	0.61	0.0	100,100,0	0.11	0.0	0.0	100,0,0
1648	0.18	0.74	0.0	98,96,0	0.13	0.0	0.0	95,0,0
1649	0.22	0.68	0.0	100,96,0	0.13	0.0	0.0	99,0,0
1650	0.20	0.65	0.0	100,100,0	0.11	0.0	0.0	100,0,0
1651	0.16	0.62	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1652	0.19	0.59	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1653	0.18	0.58	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1654	0.18	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1655	0.16	0.53	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1656	0.16	0.51	0.0	98,100,0	0.0	0.0	0.0	0,0,0
1657	0.16	0.50	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1658	0.15	0.50	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1659	0.17	0.58	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1660	0.25	0.56	0.0	100,95,0	0.09	0.0	0.0	98,0,0
1661	0.22	0.57	0.0	100,100,0	0.10	0.0	0.0	100,0,0
1662	0.09	0.51	0.0	96,97,0	0.0	0.0	0.0	0,0,0
1663	0.11	0.49	0.0	96,99,0	0.0	0.0	0.0	0,0,0
1664	0.12	0.51	0.0	96,100,0	0.0	0.0	0.0	0,0,0
1665	0.13	0.54	0.0	96,100,0	0.0	0.0	0.0	0,0,0
1666	0.13	0.59	0.0	96,100,0	0.0	0.0	0.0	0,0,0
1667	0.13	0.66	0.0	96,100,0	0.0	0.0	0.0	0,0,0
1668	0.12	0.72	0.0	96,100,0	0.0	0.0	0.0	0,0,0
1669	0.10	0.72	0.0	99,100,0	0.0	0.0	0.0	0,0,0
1670	0.13	0.70	0.0	99,100,0	0.0	0.0	0.0	0,0,0
1749	0.23	0.60	0.0	98,98,0	0.10	0.0	0.0	97,0,0
1750	0.15	0.64	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1751	0.19	0.63	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1752	0.20	0.60	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1753	0.20	0.58	0.0	98,98,0	0.0	0.0	0.0	0,0,0
1754	0.20	0.56	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1755	0.19	0.59	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1756	0.17	0.64	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1757	0.16	0.66	0.0	98,95,0	0.0	0.0	0.0	0,0,0
1758	0.21	0.62	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1759	0.31	0.59	0.0	100,97,0	0.13	0.0	0.0	97,0,0
1760	0.31	0.58	0.0	100,97,0	0.13	0.0	0.0	97,0,0
1761	0.15	0.60	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1762	0.20	0.74	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1763	0.20	0.71	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1764	0.20	0.62	0.0	99,96,0	0.0	0.0	0.0	0,0,0
1765	0.19	0.57	0.0	99,99,0	0.0	0.0	0.0	0,0,0
1766	0.19	0.56	0.0	99,100,0	0.0	0.0	0.0	0,0,0
1767	0.18	0.56	0.0	99,100,0	0.0	0.0	0.0	0,0,0
1768	0.15	0.62	0.0	99,99,0	0.0	0.0	0.0	0,0,0
1769	0.24	0.66	0.0	99,99,0	0.11	0.0	0.0	100,0,0
1770	0.22	0.59	0.0	98,100,0	0.10	0.0	0.0	100,0,0
1771	0.21	0.75	0.0	95,99,0	0.14	0.0	0.0	96,0,0
1772	0.23	0.63	0.0	99,99,0	0.11	0.0	0.0	100,0,0
1773	0.05	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1774	0.08	0.72	0.0	96,97,0	0.0	0.0	0.0	0,0,0
1775	0.07	0.53	0.0	100,99,0	0.0	0.0	0.0	0,0,0
1776	0.07	0.58	0.0	95,100,0	0.0	0.0	0.0	0,0,0
1777	0.08	0.66	0.0	96,97,0	0.0	0.0	0.0	0,0,0
1778	0.09	0.58	0.0	100,96,0	0.0	0.0	0.0	0,0,0
1779	0.07	0.57	0.0	95,100,0	0.0	0.0	0.0	0,0,0
1780	0.08	0.63	0.0	96,97,0	0.0	0.0	0.0	0,0,0
…								
3711	0.05	0.55	0.0	98,97,0	0.0	0.0	0.0	0,0,0
	rRfck	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
Max	0.47	0.75	0.0		0.21	0.0	0.0	

2.13 SOLETTA VASCHE ACCUMULO

La soletta ha spessore 25 cm ed appoggia sulle pareti delle vasche sottostanti.

2.13.1 MODELLAZIONE STRUTTURA: NODI

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
3550	150.0	150.0	930.0	3551	242.5	150.0	930.0	3552	335.0	150.0	930.0
3553	427.5	150.0	930.0	3554	520.0	150.0	930.0	3555	612.5	150.0	930.0
3556	705.0	150.0	930.0	3557	797.5	150.0	930.0	3558	890.0	150.0	930.0
3559	982.5	150.0	930.0	3560	1065.0	150.0	930.0	3561	1125.0	150.0	930.0
3562	1217.5	150.0	930.0	3563	1310.0	150.0	930.0	3564	1402.5	150.0	930.0
3565	1495.0	150.0	930.0	3566	1587.5	150.0	930.0	3567	1680.0	150.0	930.0
3568	1772.5	150.0	930.0	3569	1865.0	150.0	930.0	3570	1957.5	150.0	930.0
3571	2050.0	150.0	930.0	3572	150.0	252.0	930.0	3573	242.5	252.0	930.0
3574	335.0	252.0	930.0	3575	427.5	252.0	930.0	3576	520.0	252.0	930.0
3577	612.5	252.0	930.0	3578	705.0	252.0	930.0	3579	797.5	252.0	930.0
3580	890.0	252.0	930.0	3581	982.5	252.0	930.0	3582	1065.0	252.0	930.0
3583	1125.0	252.0	930.0	3584	1217.5	252.0	930.0	3585	1310.0	252.0	930.0
3586	1402.5	252.0	930.0	3587	1495.0	252.0	930.0	3588	1587.5	252.0	930.0
3589	1680.0	252.0	930.0	3590	1772.5	252.0	930.0	3591	1865.0	252.0	930.0
3592	1957.5	252.0	930.0	3593	2050.0	252.0	930.0	3594	150.0	354.0	930.0
3595	242.5	354.0	930.0	3596	335.0	354.0	930.0	3597	427.5	354.0	930.0
3598	520.0	354.0	930.0	3599	612.5	354.0	930.0	3600	705.0	354.0	930.0
3601	797.5	354.0	930.0	3602	890.0	354.0	930.0	3603	982.5	354.0	930.0
3604	1065.0	354.0	930.0	3605	1125.0	354.0	930.0	3606	1217.5	354.0	930.0
3607	1310.0	354.0	930.0	3608	1402.5	354.0	930.0	3609	1495.0	354.0	930.0
3610	1587.5	354.0	930.0	3611	1680.0	354.0	930.0	3612	1772.5	354.0	930.0
3613	1865.0	354.0	930.0	3614	1957.5	354.0	930.0	3615	2050.0	354.0	930.0
3616	150.0	456.0	930.0	3617	242.5	456.0	930.0	3618	335.0	456.0	930.0
3619	427.5	456.0	930.0	3620	520.0	456.0	930.0	3621	612.5	456.0	930.0
3622	705.0	456.0	930.0	3623	797.5	456.0	930.0	3624	890.0	456.0	930.0
3625	982.5	456.0	930.0	3626	1065.0	456.0	930.0	3627	1125.0	456.0	930.0
3628	1217.5	456.0	930.0	3629	1310.0	456.0	930.0	3630	1402.5	456.0	930.0
3631	1495.0	456.0	930.0	3632	1587.5	456.0	930.0	3633	1680.0	456.0	930.0
3634	1772.5	456.0	930.0	3635	1865.0	456.0	930.0	3636	1957.5	456.0	930.0
3637	2050.0	456.0	930.0	3638	150.0	558.0	930.0	3639	242.5	558.0	930.0
3640	335.0	558.0	930.0	3641	427.5	558.0	930.0	3642	520.0	558.0	930.0
3643	612.5	558.0	930.0	3644	705.0	558.0	930.0	3645	797.5	558.0	930.0
3646	890.0	558.0	930.0	3647	982.5	558.0	930.0	3648	1065.0	558.0	930.0
3649	1125.0	558.0	930.0	3650	1217.5	558.0	930.0	3651	1310.0	558.0	930.0
3652	1402.5	558.0	930.0	3653	1495.0	558.0	930.0	3654	1587.5	558.0	930.0
3655	1680.0	558.0	930.0	3656	1772.5	558.0	930.0	3657	1865.0	558.0	930.0
3658	1957.5	558.0	930.0	3659	2050.0	558.0	930.0	3660	150.0	660.0	930.0
3661	242.5	660.0	930.0	3662	335.0	660.0	930.0	3663	427.5	660.0	930.0
3664	520.0	660.0	930.0	3665	612.5	660.0	930.0	3666	705.0	660.0	930.0
3667	797.5	660.0	930.0	3668	890.0	660.0	930.0	3669	925.0	660.0	930.0
3670	982.5	660.0	930.0	3671	1065.0	660.0	930.0	3672	1125.0	660.0	930.0
3673	1217.5	660.0	930.0	3674	1310.0	660.0	930.0	3675	1402.5	660.0	930.0
3676	1495.0	660.0	930.0	3677	1587.5	660.0	930.0	3678	1680.0	660.0	930.0
3679	1772.5	660.0	930.0	3680	1865.0	660.0	930.0	3681	1957.5	660.0	930.0
3682	2050.0	660.0	930.0								

Numerazione nodi ed elementi shell



2.13.2 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

TABELLA DATI SHELL

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
3712	Guscio	3550	3551	3573	3572	4	25.0		
3713	Guscio	3551	3552	3574	3573	4	25.0		
3714	Guscio	3552	3553	3575	3574	4	25.0		
3715	Guscio	3553	3554	3576	3575	4	25.0		
3716	Guscio	3554	3555	3577	3576	4	25.0		
3717	Guscio	3555	3556	3578	3577	4	25.0		
3718	Guscio	3556	3557	3579	3578	4	25.0		
3719	Guscio	3557	3558	3580	3579	4	25.0		
3720	Guscio	3558	3559	3581	3580	4	25.0		
3721	Guscio	3559	3560	3582	3581	4	25.0		
3722	Guscio	3560	3561	3583	3582	4	25.0		
3723	Guscio	3561	3562	3584	3583	4	25.0		
3724	Guscio	3562	3563	3585	3584	4	25.0		
3725	Guscio	3563	3564	3586	3585	4	25.0		
3726	Guscio	3564	3565	3587	3586	4	25.0		
3727	Guscio	3565	3566	3588	3587	4	25.0		
3728	Guscio	3566	3567	3589	3588	4	25.0		
3729	Guscio	3567	3568	3590	3589	4	25.0		
3730	Guscio	3568	3569	3591	3590	4	25.0		
3731	Guscio	3569	3570	3592	3591	4	25.0		
3732	Guscio	3570	3571	3593	3592	4	25.0		
3733	Guscio	3572	3573	3595	3594	4	25.0		
3734	Guscio	3573	3574	3596	3595	4	25.0		
3735	Guscio	3574	3575	3597	3596	4	25.0		
3736	Guscio	3575	3576	3598	3597	4	25.0		
3737	Guscio	3576	3577	3599	3598	4	25.0		
3738	Guscio	3577	3578	3600	3599	4	25.0		
3739	Guscio	3578	3579	3601	3600	4	25.0		
3740	Guscio	3579	3580	3602	3601	4	25.0		
3741	Guscio	3580	3581	3603	3602	4	25.0		
3742	Guscio	3581	3582	3604	3603	4	25.0		
3743	Guscio	3582	3583	3605	3604	4	25.0		
3744	Guscio	3583	3584	3606	3605	4	25.0		
3745	Guscio	3584	3585	3607	3606	4	25.0		
3746	Guscio	3585	3586	3608	3607	4	25.0		
3747	Guscio	3586	3587	3609	3608	4	25.0		
3748	Guscio	3587	3588	3610	3609	4	25.0		
3749	Guscio	3588	3589	3611	3610	4	25.0		
3750	Guscio	3589	3590	3612	3611	4	25.0		
3751	Guscio	3590	3591	3613	3612	4	25.0		
3752	Guscio	3591	3592	3614	3613	4	25.0		
3753	Guscio	3592	3593	3615	3614	4	25.0		
3754	Guscio	3594	3595	3617	3616	4	25.0		
3755	Guscio	3595	3596	3618	3617	4	25.0		
3756	Guscio	3596	3597	3619	3618	4	25.0		
3757	Guscio	3597	3598	3620	3619	4	25.0		
3758	Guscio	3598	3599	3621	3620	4	25.0		
3759	Guscio	3599	3600	3622	3621	4	25.0		
3760	Guscio	3600	3601	3623	3622	4	25.0		
3761	Guscio	3601	3602	3624	3623	4	25.0		
3762	Guscio	3602	3603	3625	3624	4	25.0		
3763	Guscio	3603	3604	3626	3625	4	25.0		
3764	Guscio	3604	3605	3627	3626	4	25.0		
3765	Guscio	3605	3606	3628	3627	4	25.0		
3766	Guscio	3606	3607	3629	3628	4	25.0		
3767	Guscio	3607	3608	3630	3629	4	25.0		
3768	Guscio	3608	3609	3631	3630	4	25.0		
3769	Guscio	3609	3610	3632	3631	4	25.0		
3770	Guscio	3610	3611	3633	3632	4	25.0		
3771	Guscio	3611	3612	3634	3633	4	25.0		
3772	Guscio	3612	3613	3635	3634	4	25.0		
3773	Guscio	3613	3614	3636	3635	4	25.0		
3774	Guscio	3614	3615	3637	3636	4	25.0		
3775	Guscio	3616	3617	3639	3638	4	25.0		
3776	Guscio	3617	3618	3640	3639	4	25.0		
3777	Guscio	3618	3619	3641	3640	4	25.0		
3778	Guscio	3619	3620	3642	3641	4	25.0		

3779	Guscio	3620	3621	3643	3642	4	25.0
3780	Guscio	3621	3622	3644	3643	4	25.0
3781	Guscio	3622	3623	3645	3644	4	25.0
3782	Guscio	3623	3624	3646	3645	4	25.0
3783	Guscio	3624	3625	3647	3646	4	25.0
3784	Guscio	3625	3626	3648	3647	4	25.0
3785	Guscio	3626	3627	3649	3648	4	25.0
3786	Guscio	3627	3628	3650	3649	4	25.0
3787	Guscio	3628	3629	3651	3650	4	25.0
3788	Guscio	3629	3630	3652	3651	4	25.0
3789	Guscio	3630	3631	3653	3652	4	25.0
3790	Guscio	3631	3632	3654	3653	4	25.0
3791	Guscio	3632	3633	3655	3654	4	25.0
3792	Guscio	3633	3634	3656	3655	4	25.0
3793	Guscio	3634	3635	3657	3656	4	25.0
3794	Guscio	3635	3636	3658	3657	4	25.0
3795	Guscio	3636	3637	3659	3658	4	25.0
3796	Guscio	3638	3639	3661	3660	4	25.0
3797	Guscio	3639	3640	3662	3661	4	25.0
3798	Guscio	3640	3641	3663	3662	4	25.0
3799	Guscio	3641	3642	3664	3663	4	25.0
3800	Guscio	3642	3643	3665	3664	4	25.0
3801	Guscio	3643	3644	3666	3665	4	25.0
3802	Guscio	3644	3645	3667	3666	4	25.0
3803	Guscio	3645	3646	3668	3667	4	25.0
3804	Guscio	3646	3647	3670	3669	4	25.0
3805	Guscio	3647	3648	3671	3670	4	25.0
3806	Guscio	3648	3649	3672	3671	4	25.0
3807	Guscio	3649	3650	3673	3672	4	25.0
3808	Guscio	3650	3651	3674	3673	4	25.0
3809	Guscio	3651	3652	3675	3674	4	25.0
3810	Guscio	3652	3653	3676	3675	4	25.0
3811	Guscio	3653	3654	3677	3676	4	25.0
3812	Guscio	3654	3655	3678	3677	4	25.0
3813	Guscio	3655	3656	3679	3678	4	25.0
3814	Guscio	3656	3657	3680	3679	4	25.0
3815	Guscio	3657	3658	3681	3680	4	25.0
3816	Guscio	3658	3659	3682	3681	4	25.0
3817	Guscio	3668	3646	3669		4	25.0

2.13.3 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

TABELLA VERIFICHE ELEMENTI GUSCIO IN C.A.

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
20	ok 3550	0.18	0.9	0.1	8.1	12.6	8.1	12.1	507.6	305.5	224.1	627.8	248.7	707.1
20	ok 3551	0.18	0.8	0.1	7.7	11.9	7.7	9.1	-407.5	-110.0	39.2	-665.1	-1103.5	1061.3
20	ok 3552	0.16	0.3	7.39e-02	7.7	7.7	7.7	7.7	46.0	-15.3	31.4	492.1	1482.4	180.3
20	ok 3553	0.16	0.3	2.94e-02	7.7	7.7	7.7	7.7	35.3	-6.6	28.7	442.0	1985.6	82.6
20	ok 3554	0.16	0.4	2.33e-02	7.7	7.7	7.7	7.7	37.7	-6.2	25.3	470.0	2258.8	21.9
20	ok 3555	0.16	0.4	2.10e-02	7.7	7.7	7.7	7.7	42.8	-6.9	21.2	492.1	2379.5	-24.4
20	ok 3556	0.16	0.4	1.92e-02	7.7	7.7	7.7	7.7	48.5	-8.7	13.8	510.9	2402.5	-59.8
20	ok 3557	0.16	0.4	1.97e-02	7.7	7.7	7.7	7.7	55.1	-11.2	2.3	551.6	2312.2	-102.6
20	ok 3558	0.16	0.4	2.36e-02	7.7	7.7	7.7	7.7	67.5	-13.1	-20.9	820.0	2106.0	-131.2
20	ok 3559	0.16	0.6	7.56e-02	7.7	7.7	7.7	7.7	75.8	-29.9	22.2	270.9	-198.5	-2523.1
20	ok 3560	0.19	0.9	0.1	7.7	14.6	7.7	14.7	-283.8	-330.4	-152.5	-1469.1	-5227.6	-2778.7
20	ok 3561	0.17	0.7	9.84e-02	7.7	10.1	7.7	9.8	-265.8	-143.3	-147.7	351.2	-12.5	-2518.2
20	ok 3562	0.16	0.3	3.34e-02	7.7	7.7	7.7	7.7	114.6	-28.3	45.7	735.7	1197.4	61.6
20	ok 3563	0.16	0.3	2.10e-02	7.7	7.7	7.7	7.7	123.3	-23.0	39.0	499.4	1904.0	132.2
20	ok 3564	0.16	0.4	1.33e-02	7.7	7.7	7.7	7.7	126.1	-17.2	38.1	523.6	2349.6	106.9
20	ok 3565	0.16	0.4	8.64e-03	7.7	7.7	7.7	7.7	121.7	-12.4	35.4	541.4	2526.1	77.2
20	ok 3566	0.16	0.4	8.17e-03	7.7	7.7	7.7	7.7	113.2	-9.2	30.6	535.2	2529.5	43.9
20	ok 3567	0.16	0.4	9.70e-03	7.7	7.7	7.7	7.7	102.1	-7.7	25.1	515.0	2406.7	-4.3
20	ok 3568	0.16	0.4	1.28e-02	7.7	7.7	7.7	7.7	91.7	-8.0	18.8	486.4	2121.1	-68.7
20	ok 3569	0.16	0.3	2.51e-02	7.7	7.7	7.7	7.7	92.1	-17.5	12.7	546.6	1603.0	-172.4
20	ok 3570	0.16	0.4	5.59e-02	7.7	7.7	7.7	7.7	154.3	-32.7	37.3	966.7	990.0	-108.6
20	ok 3571	0.16	0.7	6.68e-02	7.7	8.7	7.7	8.7	145.5	123.9	-192.5	-404.6	-351.7	-634.3
20	ok 3572	0.16	0.6	9.91e-02	7.7	7.8	7.7	7.8	-2.4	231.3	39.0	2590.6	1256.7	-519.2
20	ok 3573	0.16	0.2	4.39e-02	7.7	7.7	7.7	7.7	-37.4	-19.8	37.4	471.9	-438.4	494.8
20	ok 3574	0.16	0.3	3.25e-02	7.7	7.7	7.7	7.7	16.4	25.8	104.5	-815.7	-1185.0	867.7
20	ok 3575	0.16	0.3	2.89e-02	7.7	7.7	7.7	7.7	48.0	51.6	101.0	-679.0	-1677.1	560.0
20	ok 3576	0.16	0.4	2.43e-02	7.7	7.7	7.7	7.7	23.7	89.2	130.0	-784.2	-1970.7	296.7
20	ok 3577	0.16	0.5	2.05e-02	7.7	7.7	7.7	7.7	51.7	95.5	116.0	-790.8	-2061.2	70.8
20	ok 3578	0.16	0.5	1.97e-02	7.7	7.7	7.7	7.7	34.1	96.5	134.7	-759.7	-1789.1	-166.8
20	ok 3579	0.16	0.4	1.95e-02	7.7	7.7	7.7	7.7	38.2	87.3	130.0	-638.0	-1307.6	-322.1
20	ok 3580	0.16	0.3	2.00e-02	7.7	7.7	7.7	7.7	53.8	56.3	73.3	-770.6	-881.8	-656.2
20	ok 3581	0.16	0.5	3.59e-02	7.7	7.7	7.7	7.7	42.5	-96.0	-44.6	-1031.4	-1096.6	-1875.2
20	ok 3582	0.19	0.9	0.1	7.7	8.3	7.7	13.4	91.0	275.7	-20.4	2236.4	5704.8	647.5
20	ok 3583	0.16	0.5	5.87e-02	7.7	7.7	7.7	7.7	18.0	-101.7	-44.3	1984.4	286.3	1238.9
20	ok 3584	0.16	0.2	4.05e-02	7.7	7.7	7.7	7.7	94.4	-44.4	15.1	-71.4	-284.6	619.0
20	ok 3585	0.16	0.2	2.88e-02	7.7	7.7	7.7	7.7	83.0	1.2	-34.9	-319.7	-669.5	550.4
20	ok 3586	0.16	0.3	1.79e-02	7.7	7.7	7.7	7.7	124.2	31.9	51.2	-484.3	-1233.2	317.2
20	ok 3587	0.16	0.3	1.16e-02	7.7	7.7	7.7	7.7	113.0	56.2	71.9	-604.8	-1552.2	168.5
20	ok 3588	0.16	0.4	1.07e-02	7.7	7.7	7.7	7.7	108.1	69.8	93.3	-671.4	-1697.8	24.0
20	ok 3589	0.16	0.4	1.48e-02	7.7	7.7	7.7	7.7	96.7	71.2	109.4	-670.9	-1647.1	-128.7
20	ok 3590	0.16	0.4	2.07e-02	7.7	7.7	7.7	7.7	85.0	60.6	122.0	-586.1	-1393.8	-281.2
20	ok 3591	0.16	0.3	2.49e-02	7.7	7.7	7.7	7.7	74.1	48.3	128.3	-471.6	-809.7	-509.2
20	ok 3592	0.16	0.2	2.60e-02	7.7	7.7	7.7	7.7	7.6	44.7	25.8	-22.8	-242.1	-689.8
20	ok 3593	0.16	0.4	6.19e-02	7.7	7.7	7.7	7.7	-65.7	186.1	74.5	2275.3	1130.7	24.1
20	ok 3594	0.16	0.5	5.41e-02	7.7	7.7	7.7	7.7	-39.7	-23.3	73.7	2949.0	850.9	66.8
20	ok 3595	0.16	0.1	3.39e-02	7.7	7.7	7.7	7.7	-16.8	16.8	70.3	470.0	-270.9	214.8
20	ok 3596	0.16	0.2	2.78e-02	7.7	7.7	7.7	7.7	2.7	39.4	65.2	-574.4	-1078.4	249.3
20	ok 3597	0.16	0.3	2.09e-02	7.7	7.7	7.7	7.7	20.1	50.4	61.5	-914.0	-1702.9	211.1
20	ok 3598	0.16	0.4	1.69e-02	7.7	7.7	7.7	7.7	29.6	60.9	58.7	-997.6	-2063.5	118.6
20	ok 3599	0.16	0.4	1.58e-02	7.7	7.7	7.7	7.7	35.4	68.6	57.5	-1004.6	-2205.2	29.0
20	ok 3600	0.16	0.4	1.56e-02	7.7	7.7	7.7	7.7	38.0	71.6	55.3	-981.3	-2154.6	-63.3
20	ok 3601	0.16	0.4	1.38e-02	7.7	7.7	7.7	7.7	38.2	65.9	47.9	-919.7	-1914.1	-160.3
20	ok 3602	0.16	0.3	1.76e-02	7.7	7.7	7.7	7.7	48.3	1.3	-18.8	-1145.0	-1462.9	-313.9
20	ok 3603	0.16	0.3	3.56e-02	7.7	7.7	7.7	7.7	39.5	-92.5	-41.5	-533.7	-1273.8	-703.6
20	ok 3604	0.16	0.4	4.95e-02	7.7	7.7	7.7	7.7	85.1	-150.5	-55.8	1483.3	2057.9	155.2
20	ok 3605	0.16	0.6	5.97e-02	7.7	7.7	7.7	7.7	114.5	-57.7	-1.7	2904.6	563.5	47.0
20	ok 3606	0.16	8.27e-02	4.31e-02	7.7	7.7	7.7	7.7	125.7	-62.4	-29.7	245.1	-337.6	172.6
20	ok 3607	0.16	0.2	2.77e-02	7.7	7.7	7.7	7.7	81.5	-5.8	-33.1	-558.7	-1039.3	156.7
20	ok 3608	0.16	0.3	1.67e-02	7.7	7.7	7.7	7.7	74.3	15.5	-24.2	-760.0	-1546.1	89.3
20	ok 3609	0.16	0.3	1.33e-02	7.7	7.7	7.7	7.7	67.0	31.5	-15.0	-802.7	-1827.3	32.8
20	ok 3610	0.16	0.4	1.59e-02	7.7	7.7	7.7	7.7	60.4	39.1	-5.1	-810.7	-1919.3	-8.0
20	ok 3611	0.16	0.3	1.99e-02	7.7	7.7	7.7	7.7	52.6	39.2	4.0	-811.8	-1837.0	-41.0
20	ok 3612	0.16	0.3	2.42e-02	7.7	7.7	7.7	7.7	42.4	35.3	9.1	-781.0	-1563.0	-86.1
20	ok 3613	0.16	0.2	2.78e-02	7.7	7.7	7.7	7.7	25.4	32.3	8.9	-597.3	-1066.0	-136.8
20	ok 3614	0.16	0.1	3.20e-02	7.7	7.7	7.7	7.7	2.3	21.4	11.9	207.4	-341.2	-123.6
20	ok 3615	0.16	0.4	3.92e-02	7.7	7.7	7.7	7.7	-16.6	135.5	129.4	2295.7	690.5	-80.7
20	ok 3616	0.16	0.5	5.91e-02	7.7	7.7	7.7	7.7	-14.5	134.3	38.4	2795.1	1015.6	-63.7
20	ok 3617	0.16	0.1	4.37e-02	7.7	7.7	7.7	7.7	-34.7	-48.0	78.7	428.9	-340.8	-388.4

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
20	ok 3618	0.16	0.2	2.80e-02	7.7	7.7	7.7	7.7	26.8	40.7	32.7	-577.1	-1055.0	-329.8
20	ok 3619	0.16	0.3	2.07e-02	7.7	7.7	7.7	7.7	43.2	50.0	44.6	-886.0	-1638.0	-245.3
20	ok 3620	0.16	0.4	1.72e-02	7.7	7.7	7.7	7.7	55.7	60.1	48.4	-969.8	-1992.3	-131.0
20	ok 3621	0.16	0.4	1.54e-02	7.7	7.7	7.7	7.7	64.7	67.8	51.3	-980.5	-2134.6	-24.2
20	ok 3622	0.16	0.4	1.01e-02	7.7	7.7	7.7	7.7	70.4	73.0	55.5	-967.2	-2084.1	76.7
20	ok 3623	0.16	0.4	1.31e-02	7.7	7.7	7.7	7.7	61.1	84.6	52.6	-911.5	-1867.9	177.2
20	ok 3624	0.16	0.3	1.86e-02	7.7	7.7	7.7	7.7	24.1	143.4	93.8	-1030.2	-1277.1	275.6
20	ok 3625	0.16	0.3	3.95e-02	7.7	7.7	7.7	7.7	48.0	121.2	35.4	-539.3	-932.2	629.0
20	ok 3626	0.16	0.4	5.64e-02	7.7	7.7	7.7	7.7	43.5	79.6	26.3	1449.9	1683.2	278.8
20	ok 3627	0.16	0.7	7.22e-02	7.7	7.7	7.7	7.7	167.4	-102.6	-21.2	2852.1	582.8	45.8
20	ok 3628	0.16	9.05e-02	4.92e-02	7.7	7.7	7.7	7.7	102.7	-42.8	-38.9	215.8	-299.7	-331.7
20	ok 3629	0.16	0.2	2.61e-02	7.7	7.7	7.7	7.7	86.1	-18.9	-19.9	-516.0	-900.4	-359.7
20	ok 3630	0.16	0.2	1.78e-02	7.7	7.7	7.7	7.7	73.3	6.9	-13.9	-670.9	-1301.9	-257.8
20	ok 3631	0.16	0.3	1.84e-02	7.7	7.7	7.7	7.7	66.0	21.4	-7.2	-679.1	-1513.3	-135.6
20	ok 3632	0.16	0.3	2.05e-02	7.7	7.7	7.7	7.7	59.9	27.8	2.6	-667.8	-1575.5	-9.8
20	ok 3633	0.16	0.3	2.47e-02	7.7	7.7	7.7	7.7	52.6	29.0	13.9	-674.9	-1510.5	123.0
20	ok 3634	0.16	0.2	2.98e-02	7.7	7.7	7.7	7.7	42.0	28.4	24.4	-666.4	-1301.9	254.2
20	ok 3635	0.16	0.2	3.45e-02	7.7	7.7	7.7	7.7	26.5	27.1	32.2	-524.8	-916.0	368.0
20	ok 3636	0.16	0.1	3.71e-02	7.7	7.7	7.7	7.7	28.6	3.9	38.3	-142.3	-443.8	296.3
20	ok 3637	0.16	0.3	3.58e-02	7.7	7.7	7.7	7.7	-16.9	11.2	28.5	1899.7	577.4	96.3
20	ok 3638	0.17	0.7	0.1	7.7	8.4	7.7	9.5	9.0	425.3	5.6	2717.5	1650.5	56.0
20	ok 3639	0.16	0.2	4.37e-02	7.7	7.7	7.7	7.7	148.7	35.0	-14.4	587.1	237.6	-577.1
20	ok 3640	0.16	0.3	3.17e-02	7.7	7.7	7.7	7.7	96.5	43.6	-24.9	-688.3	-1092.6	-871.3
20	ok 3641	0.16	0.4	2.08e-02	7.7	7.7	7.7	7.7	115.9	68.7	-3.6	-602.0	-1472.5	-599.8
20	ok 3642	0.16	0.4	9.30e-03	7.7	7.7	7.7	7.7	89.3	86.3	-32.1	-730.4	-1785.7	-316.4
20	ok 3643	0.16	0.4	8.26e-03	7.7	7.7	7.7	7.7	103.2	93.6	-36.7	-764.8	-1904.9	-74.0
20	ok 3644	0.16	0.4	9.07e-03	7.7	7.7	7.7	7.7	86.4	93.0	-45.3	-723.1	-1847.3	160.9
20	ok 3645	0.16	0.3	9.43e-03	7.7	7.7	7.7	7.7	93.1	76.2	-40.6	-643.6	-1246.6	414.0
20	ok 3646	0.16	0.3	5.10e-02	7.7	7.7	7.7	7.7	19.4	5.6	-26.8	-755.2	-1204.8	711.1
20	ok 3647	0.16	0.7	3.94e-02	7.8	7.7	7.8	7.7	84.1	269.7	-26.6	-780.6	-870.3	1692.7
20	ok 3648	0.16	0.8	8.79e-02	8.9	7.7	8.9	7.7	34.1	-278.0	-116.6	2326.3	4528.2	-328.7
20	ok 3649	0.16	0.4	0.1	7.7	7.7	7.7	7.7	171.5	-343.4	-73.1	1562.7	670.5	780.0
20	ok 3650	0.16	0.2	6.53e-02	7.7	7.7	7.7	7.7	104.4	-105.6	-0.6	-126.3	-256.3	-721.8
20	ok 3651	0.16	0.2	2.81e-02	7.7	7.7	7.7	7.7	76.1	-19.5	-2.3	-235.8	-258.9	-581.8
20	ok 3652	0.16	0.1	2.35e-02	7.7	7.7	7.7	7.7	49.9	-7.7	-44.0	-215.0	-406.0	-244.9
20	ok 3653	0.16	7.45e-02	2.29e-02	7.7	7.7	7.7	7.7	48.0	11.3	-58.4	-196.9	-378.8	-133.8
20	ok 3654	0.16	6.36e-02	2.47e-02	7.7	7.7	7.7	7.7	45.7	16.1	-46.1	-172.1	-354.3	5.5
20	ok 3655	0.16	7.50e-02	2.99e-02	7.7	7.7	7.7	7.7	40.9	16.9	-37.5	-165.3	-324.9	133.6
20	ok 3656	0.16	9.96e-02	3.41e-02	7.7	7.7	7.7	7.7	68.6	11.8	78.3	-205.5	-199.2	374.1
20	ok 3657	0.16	0.1	3.85e-02	7.7	7.7	7.7	7.7	54.2	22.7	98.8	-244.8	-245.0	582.0
20	ok 3658	0.16	0.2	3.80e-02	7.7	7.7	7.7	7.7	23.3	40.8	115.8	-107.7	-268.4	744.9
20	ok 3659	0.16	0.2	2.88e-02	7.7	7.7	7.7	7.7	-34.6	108.0	-29.5	788.6	582.8	-45.8
20	ok 3660	0.21	0.9	0.1	10.0	16.4	9.0	12.9	223.6	334.3	-205.3	83.3	361.6	-797.7
20	ok 3661	0.19	0.9	0.1	7.7	13.9	7.7	8.9	198.6	-31.6	-23.4	478.9	-459.6	-1133.1
20	ok 3662	0.16	0.6	5.58e-02	7.7	7.7	7.7	7.7	87.0	-5.5	-10.5	276.3	1541.7	-122.0
20	ok 3663	0.16	0.4	2.69e-03	7.7	7.7	7.7	7.7	84.9	-9.0	-2.6	493.3	2094.7	-115.3
20	ok 3664	0.16	0.4	3.00e-03	7.7	7.7	7.7	7.7	92.3	-7.1	0.7	499.9	2343.6	-57.7
20	ok 3665	0.16	0.4	3.42e-03	7.7	7.7	7.7	7.7	102.4	-6.4	4.4	507.3	2420.0	-23.0
20	ok 3666	0.16	0.4	5.96e-03	7.7	7.7	7.7	7.7	113.1	-6.5	8.9	494.8	2369.1	12.3
20	ok 3667	0.16	0.4	6.27e-03	7.7	7.7	7.7	7.7	125.9	-11.1	16.3	423.2	2153.7	59.9
20	ok 3668	0.17	0.7	1.14e-02	7.7	9.5	7.7	9.5	164.3	34.9	66.4	442.6	1703.8	154.8
20	ok 3669	0.20	0.9	2.36e-03	10.0	15.2	10.0	15.2	243.5	472.8	123.0	601.5	1487.6	753.7
20	ok 3670	0.16	0.7	5.65e-02	7.7	8.9	7.7	8.9	70.1	-27.2	-147.9	117.1	-215.5	2100.6
20	ok 3671	0.16	0.9	0.1	8.8	7.7	8.8	7.7	-196.5	74.3	-2.7	-1682.0	-4304.9	2229.9
20	ok 3672	0.16	0.6	0.2	7.7	7.7	7.7	7.7	152.7	-675.1	-105.5	639.2	-1165.9	-1965.6
20	ok 3673	0.16	0.1	6.17e-02	7.7	7.7	7.7	7.7	71.4	-42.9	42.8	344.0	564.0	-244.4
20	ok 3674	0.16	0.3	2.80e-02	7.7	7.7	7.7	7.7	95.0	-22.4	41.4	366.8	1520.4	-233.3
20	ok 3675	0.16	0.4	2.50e-02	7.7	7.7	7.7	7.7	90.9	1.7	-7.9	468.0	2173.8	-142.4
20	ok 3676	0.16	0.4	2.69e-02	7.7	7.7	7.7	7.7	90.1	0.8	1.3	545.6	2581.4	-52.4
20	ok 3677	0.16	0.5	3.17e-02	7.7	7.7	7.7	7.7	84.7	-1.0	15.6	577.9	2742.1	25.1
20	ok 3678	0.16	0.5	3.73e-02	7.7	7.7	7.7	7.7	76.9	-1.5	31.3	564.0	2661.4	88.9
20	ok 3679	0.16	0.4	4.17e-02	7.7	7.7	7.7	7.7	68.3	-1.2	45.8	507.5	2311.6	163.8
20	ok 3680	0.16	0.3	4.67e-02	7.7	7.7	7.7	7.7	64.6	-0.3	59.6	475.4	1670.9	254.2
20	ok 3681	0.16	0.2	4.38e-02	7.7	7.7	7.7	7.7	160.9	33.3	21.0	620.7	792.0	134.2
20	ok 3682	0.16	0.1	5.12e-02	7.7	7.7	7.7	7.7	37.4	92.2	32.0	-181.7	-54.1	252.0

M_G	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
								-407.55	-675.13	-205.32	-1682.02	-5227.60	-2778.73
	0.21	0.90	0.17	9.99	16.42	9.99	15.18	507.55	472.77	224.07	2949.04	5704.79	2229.94

L’armatura della è costituita da una maglia base di 1ϕ14/20/20 inf / sup a cui si aggiungono ferri alternati con sezione variabile ove necessario.

2.13.4 STATI LIMITE D' ESERCIZIO

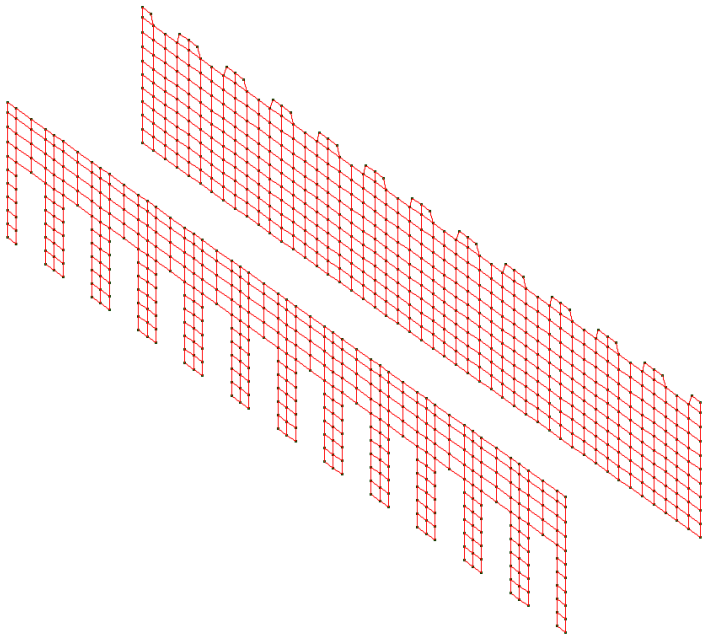
TABELLA STATI LIMITE D' ESERCIZIO

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
3712	0.15	0.31	0.0	98,99,0	0.0	0.0	0.0	0,0,0
3713	0.10	0.27	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3714	0.13	0.29	0.0	99,99,0	0.0	0.0	0.0	0,0,0
3715	0.15	0.33	0.0	99,99,0	0.0	0.0	0.0	0,0,0
3716	0.16	0.34	0.0	99,95,0	0.0	0.0	0.0	0,0,0
3717	0.16	0.35	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3718	0.16	0.35	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3719	0.15	0.34	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3720	0.14	0.33	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3721	0.11	0.29	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3722	0.14	0.34	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3723	0.12	0.34	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3724	0.13	0.32	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3725	0.16	0.36	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3726	0.17	0.38	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3727	0.17	0.38	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3728	0.17	0.37	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3729	0.16	0.35	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3730	0.14	0.30	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3731	0.11	0.27	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3732	0.12	0.42	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3733	0.20	0.42	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3734	0.09	0.24	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3735	0.12	0.34	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3736	0.14	0.42	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3737	0.15	0.45	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3738	0.15	0.45	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3739	0.14	0.45	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3740	0.13	0.42	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3741	0.10	0.32	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3742	0.07	0.32	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3743	0.19	0.58	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3744	0.16	0.50	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3745	0.07	0.27	0.0	100,99,0	0.0	0.0	0.0	0,0,0
3746	0.10	0.28	0.0	99,99,0	0.0	0.0	0.0	0,0,0
3747	0.12	0.32	0.0	99,99,0	0.0	0.0	0.0	0,0,0
3748	0.13	0.34	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3749	0.13	0.35	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3750	0.12	0.35	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3751	0.10	0.33	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3752	0.07	0.26	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3753	0.15	0.30	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3754	0.20	0.41	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3755	0.08	0.28	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3756	0.12	0.37	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3757	0.14	0.42	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3758	0.15	0.45	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3759	0.15	0.45	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3760	0.14	0.45	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3761	0.13	0.41	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3762	0.10	0.34	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3763	0.07	0.33	0.0	100,100,0	0.0	0.0	0.0	0,0,0
3764	0.19	0.62	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3765	0.15	0.55	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3766	0.07	0.27	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3767	0.10	0.28	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3768	0.12	0.32	0.0	99,99,0	0.0	0.0	0.0	0,0,0
3769	0.13	0.34	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3770	0.13	0.35	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3771	0.12	0.35	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3772	0.10	0.32	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3773	0.07	0.26	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3774	0.15	0.30	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3775	0.19	0.39	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3776	0.08	0.28	0.0	100,98,0	0.0	0.0	0.0	0,0,0
3777	0.11	0.37	0.0	100,98,0	0.0	0.0	0.0	0,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
3778	0.13	0.42	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3779	0.14	0.44	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3780	0.14	0.44	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3781	0.14	0.44	0.0	98,98,0	0.0	0.0	0.0	0,0,0
3782	0.13	0.42	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3783	0.10	0.41	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3784	0.06	0.46	0.0	100,100,0	0.0	0.0	0.0	0,0,0
3785	0.18	0.66	0.0	100,100,0	0.0	0.0	0.0	0,0,0
3786	0.13	0.53	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3787	0.08	0.28	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3788	0.09	0.29	0.0	99,98,0	0.0	0.0	0.0	0,0,0
3789	0.10	0.29	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3790	0.10	0.30	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3791	0.10	0.30	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3792	0.10	0.29	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3793	0.09	0.27	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3794	0.08	0.28	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3795	0.13	0.30	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3796	0.15	0.38	0.0	98,99,0	0.0	0.0	0.0	0,0,0
3797	0.11	0.31	0.0	93,98,0	0.0	0.0	0.0	0,0,0
3798	0.14	0.33	0.0	94,98,0	0.0	0.0	0.0	0,0,0
3799	0.16	0.33	0.0	94,98,0	0.0	0.0	0.0	0,0,0
3800	0.16	0.34	0.0	94,94,0	0.0	0.0	0.0	0,0,0
3801	0.16	0.34	0.0	94,94,0	0.0	0.0	0.0	0,0,0
3802	0.16	0.39	0.0	94,100,0	0.0	0.0	0.0	0,0,0
3803	0.14	0.63	0.0	94,100,0	0.0	0.0	0.0	0,0,0
3804	0.09	0.68	0.0	98,97,0	0.23	0.0	0.0	97,0,0
3805	0.08	0.50	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3806	0.12	0.58	0.0	100,97,0	0.0	0.0	0.0	0,0,0
3807	0.11	0.59	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3808	0.10	0.27	0.0	100,95,0	0.0	0.0	0.0	0,0,0
3809	0.15	0.33	0.0	99,99,0	0.0	0.0	0.0	0,0,0
3810	0.17	0.38	0.0	99,99,0	0.0	0.0	0.0	0,0,0
3811	0.18	0.41	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3812	0.18	0.43	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3813	0.18	0.43	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3814	0.16	0.42	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3815	0.11	0.40	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3816	0.06	0.35	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3817	0.10	0.66	0.0	94,97,0	0.21	0.0	0.0	97,0,0
Guscio	**rRfck**	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
	0.20	0.68	0.0		0.23	0.0	0.0	

2.14 PARETI LONGITUDINALI

Le due pareti longitudinali hanno spessore 50 cm, sostengono le vasche MBR e ne costituiscono i lati corti.



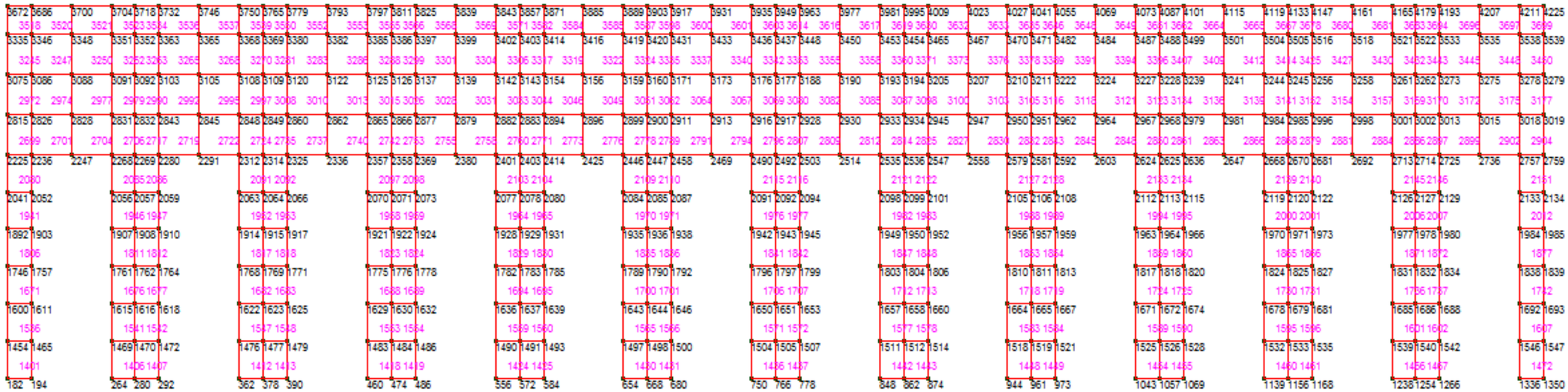
2.14.1 MODELLAZIONE STRUTTURA: NODI

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
182	1125.0	660.0	0.0	192	2050.0	660.0	0.0	194	1125.0	720.0	0.0
216	2050.0	740.0	0.0	240	2050.0	820.0	0.0	260	2050.0	900.0	0.0
264	1125.0	920.0	0.0	280	1125.0	980.0	0.0	290	2050.0	980.0	0.0
292	1125.0	1040.0	0.0	314	2050.0	1060.0	0.0	338	2050.0	1140.0	0.0
358	2050.0	1220.0	0.0	362	1125.0	1240.0	0.0	378	1125.0	1300.0	0.0
388	2050.0	1300.0	0.0	390	1125.0	1360.0	0.0	412	2050.0	1380.0	0.0
436	2050.0	1460.0	0.0	456	2050.0	1540.0	0.0	460	1125.0	1560.0	0.0
474	1125.0	1620.0	0.0	484	2050.0	1620.0	0.0	486	1125.0	1680.0	0.0
508	2050.0	1700.0	0.0	532	2050.0	1780.0	0.0	552	2050.0	1860.0	0.0
556	1125.0	1880.0	0.0	572	1125.0	1940.0	0.0	582	2050.0	1940.0	0.0
584	1125.0	2000.0	0.0	606	2050.0	2020.0	0.0	630	2050.0	2100.0	0.0
650	2050.0	2180.0	0.0	654	1125.0	2200.0	0.0	668	1125.0	2260.0	0.0
678	2050.0	2260.0	0.0	680	1125.0	2320.0	0.0	702	2050.0	2340.0	0.0
726	2050.0	2420.0	0.0	746	2050.0	2500.0	0.0	750	1125.0	2520.0	0.0
766	1125.0	2580.0	0.0	776	2050.0	2580.0	0.0	778	1125.0	2640.0	0.0
800	2050.0	2660.0	0.0	824	2050.0	2740.0	0.0	844	2050.0	2820.0	0.0
848	1125.0	2840.0	0.0	862	1125.0	2900.0	0.0	872	2050.0	2900.0	0.0
874	1125.0	2960.0	0.0	896	2050.0	2980.0	0.0	920	2050.0	3060.0	0.0
940	2050.0	3140.0	0.0	944	1125.0	3160.0	0.0	961	1125.0	3220.0	0.0
971	2050.0	3220.0	0.0	973	1125.0	3280.0	0.0	995	2050.0	3300.0	0.0
1019	2050.0	3380.0	0.0	1039	2050.0	3460.0	0.0	1043	1125.0	3480.0	0.0
1057	1125.0	3540.0	0.0	1067	2050.0	3540.0	0.0	1069	1125.0	3600.0	0.0
1091	2050.0	3620.0	0.0	1115	2050.0	3700.0	0.0	1135	2050.0	3780.0	0.0
1139	1125.0	3800.0	0.0	1156	1125.0	3860.0	0.0	1166	2050.0	3860.0	0.0
1168	1125.0	3920.0	0.0	1190	2050.0	3940.0	0.0	1214	2050.0	4020.0	0.0
1234	2050.0	4100.0	0.0	1238	1125.0	4120.0	0.0	1254	1125.0	4180.0	0.0
1264	2050.0	4180.0	0.0	1266	1125.0	4240.0	0.0	1288	2050.0	4260.0	0.0
1312	2050.0	4340.0	0.0	1332	2050.0	4420.0	0.0	1336	1125.0	4440.0	0.0
1350	1125.0	4500.0	0.0	1360	2050.0	4500.0	0.0	1454	1125.0	660.0	93.3
1464	2050.0	660.0	93.3	1465	1125.0	720.0	93.3	1466	2050.0	740.0	93.3
1467	2050.0	820.0	93.3	1468	2050.0	900.0	93.3	1469	1125.0	920.0	93.3

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1470	1125.0	980.0	93.3	1471	2050.0	980.0	93.3	1472	1125.0	1040.0	93.3
1473	2050.0	1060.0	93.3	1474	2050.0	1140.0	93.3	1475	2050.0	1220.0	93.3
1476	1125.0	1240.0	93.3	1477	1125.0	1300.0	93.3	1478	2050.0	1300.0	93.3
1479	1125.0	1360.0	93.3	1480	2050.0	1380.0	93.3	1481	2050.0	1460.0	93.3
1482	2050.0	1540.0	93.3	1483	1125.0	1560.0	93.3	1484	1125.0	1620.0	93.3
1485	2050.0	1620.0	93.3	1486	1125.0	1680.0	93.3	1487	2050.0	1700.0	93.3
1488	2050.0	1780.0	93.3	1489	2050.0	1860.0	93.3	1490	1125.0	1880.0	93.3
1491	1125.0	1940.0	93.3	1492	2050.0	1940.0	93.3	1493	1125.0	2000.0	93.3
1494	2050.0	2020.0	93.3	1495	2050.0	2100.0	93.3	1496	2050.0	2180.0	93.3
1497	1125.0	2200.0	93.3	1498	1125.0	2260.0	93.3	1499	2050.0	2260.0	93.3
1500	1125.0	2320.0	93.3	1501	2050.0	2340.0	93.3	1502	2050.0	2420.0	93.3
1503	2050.0	2500.0	93.3	1504	1125.0	2520.0	93.3	1505	1125.0	2580.0	93.3
1506	2050.0	2580.0	93.3	1507	1125.0	2640.0	93.3	1508	2050.0	2660.0	93.3
1509	2050.0	2740.0	93.3	1510	2050.0	2820.0	93.3	1511	1125.0	2840.0	93.3
1512	1125.0	2900.0	93.3	1513	2050.0	2900.0	93.3	1514	1125.0	2960.0	93.3
1515	2050.0	2980.0	93.3	1516	2050.0	3060.0	93.3	1517	2050.0	3140.0	93.3
1518	1125.0	3160.0	93.3	1519	1125.0	3220.0	93.3	1520	2050.0	3220.0	93.3
1521	1125.0	3280.0	93.3	1522	2050.0	3300.0	93.3	1523	2050.0	3380.0	93.3
1524	2050.0	3460.0	93.3	1525	1125.0	3480.0	93.3	1526	1125.0	3540.0	93.3
1527	2050.0	3540.0	93.3	1528	1125.0	3600.0	93.3	1529	2050.0	3620.0	93.3
1530	2050.0	3700.0	93.3	1531	2050.0	3780.0	93.3	1532	1125.0	3800.0	93.3
1533	1125.0	3860.0	93.3	1534	2050.0	3860.0	93.3	1535	1125.0	3920.0	93.3
1536	2050.0	3940.0	93.3	1537	2050.0	4020.0	93.3	1538	2050.0	4100.0	93.3
1539	1125.0	4120.0	93.3	1540	1125.0	4180.0	93.3	1541	2050.0	4180.0	93.3
1542	1125.0	4240.0	93.3	1543	2050.0	4260.0	93.3	1544	2050.0	4340.0	93.3
1545	2050.0	4420.0	93.3	1546	1125.0	4440.0	93.3	1547	1125.0	4500.0	93.3
1554	2050.0	4500.0	93.3	1600	1125.0	660.0	186.7	1610	2050.0	660.0	186.7
1611	1125.0	720.0	186.7	1612	2050.0	740.0	186.7	1613	2050.0	820.0	186.7
1614	2050.0	900.0	186.7	1615	1125.0	920.0	186.7	1616	1125.0	980.0	186.7
1617	2050.0	980.0	186.7	1618	1125.0	1040.0	186.7	1619	2050.0	1060.0	186.7
1620	2050.0	1140.0	186.7	1621	2050.0	1220.0	186.7	1622	1125.0	1240.0	186.7
1623	1125.0	1300.0	186.7	1624	2050.0	1300.0	186.7	1625	1125.0	1360.0	186.7
1626	2050.0	1380.0	186.7	1627	2050.0	1460.0	186.7	1628	2050.0	1540.0	186.7
1629	1125.0	1560.0	186.7	1630	1125.0	1620.0	186.7	1631	2050.0	1620.0	186.7
1632	1125.0	1680.0	186.7	1633	2050.0	1700.0	186.7	1634	2050.0	1780.0	186.7
1635	2050.0	1860.0	186.7	1636	1125.0	1880.0	186.7	1637	1125.0	1940.0	186.7
1638	2050.0	1940.0	186.7	1639	1125.0	2000.0	186.7	1640	2050.0	2020.0	186.7
1641	2050.0	2100.0	186.7	1642	2050.0	2180.0	186.7	1643	1125.0	2200.0	186.7
1644	1125.0	2260.0	186.7	1645	2050.0	2260.0	186.7	1646	1125.0	2320.0	186.7
1647	2050.0	2340.0	186.7	1648	2050.0	2420.0	186.7	1649	2050.0	2500.0	186.7
1650	1125.0	2520.0	186.7	1651	1125.0	2580.0	186.7	1652	2050.0	2580.0	186.7
1653	1125.0	2640.0	186.7	1654	2050.0	2660.0	186.7	1655	2050.0	2740.0	186.7
1656	2050.0	2820.0	186.7	1657	1125.0	2840.0	186.7	1658	1125.0	2900.0	186.7
1659	2050.0	2900.0	186.7	1660	1125.0	2960.0	186.7	1661	2050.0	2980.0	186.7
1662	2050.0	3060.0	186.7	1663	2050.0	3140.0	186.7	1664	1125.0	3160.0	186.7
1665	1125.0	3220.0	186.7	1666	2050.0	3220.0	186.7	1667	1125.0	3280.0	186.7
1668	2050.0	3300.0	186.7	1669	2050.0	3380.0	186.7	1670	2050.0	3460.0	186.7
1671	1125.0	3480.0	186.7	1672	1125.0	3540.0	186.7	1673	2050.0	3540.0	186.7
1674	1125.0	3600.0	186.7	1675	2050.0	3620.0	186.7	1676	2050.0	3700.0	186.7
1677	2050.0	3780.0	186.7	1678	1125.0	3800.0	186.7	1679	1125.0	3860.0	186.7
1680	2050.0	3860.0	186.7	1681	1125.0	3920.0	186.7	1682	2050.0	3940.0	186.7
1683	2050.0	4020.0	186.7	1684	2050.0	4100.0	186.7	1685	1125.0	4120.0	186.7
1686	1125.0	4180.0	186.7	1687	2050.0	4180.0	186.7	1688	1125.0	4240.0	186.7
1689	2050.0	4260.0	186.7	1690	2050.0	4340.0	186.7	1691	2050.0	4420.0	186.7
1692	1125.0	4440.0	186.7	1693	1125.0	4500.0	186.7	1700	2050.0	4500.0	186.7
1746	1125.0	660.0	280.0	1756	2050.0	660.0	280.0	1757	1125.0	720.0	280.0
1758	2050.0	740.0	280.0	1759	2050.0	820.0	280.0	1760	2050.0	900.0	280.0
1761	1125.0	920.0	280.0	1762	1125.0	980.0	280.0	1763	2050.0	980.0	280.0
1764	1125.0	1040.0	280.0	1765	2050.0	1060.0	280.0	1766	2050.0	1140.0	280.0
1767	2050.0	1220.0	280.0	1768	1125.0	1240.0	280.0	1769	1125.0	1300.0	280.0
1770	2050.0	1300.0	280.0	1771	1125.0	1360.0	280.0	1772	2050.0	1380.0	280.0
1773	2050.0	1460.0	280.0	1774	2050.0	1540.0	280.0	1775	1125.0	1560.0	280.0
1776	1125.0	1620.0	280.0	1777	2050.0	1620.0	280.0	1778	1125.0	1680.0	280.0
1779	2050.0	1700.0	280.0	1780	2050.0	1780.0	280.0	1781	2050.0	1860.0	280.0
1782	1125.0	1880.0	280.0	1783	1125.0	1940.0	280.0	1784	2050.0	1940.0	280.0
1785	1125.0	2000.0	280.0	1786	2050.0	2020.0	280.0	1787	2050.0	2100.0	280.0
1788	2050.0	2180.0	280.0	1789	1125.0	2200.0	280.0	1790	1125.0	2260.0	280.0
1791	2050.0	2260.0	280.0	1792	1125.0	2320.0	280.0	1793	2050.0	2340.0	280.0
1794	2050.0	2420.0	280.0	1795	2050.0	2500.0	280.0	1796	1125.0	2520.0	280.0
1797	1125.0	2580.0	280.0	1798	2050.0	2580.0	280.0	1799	1125.0	2640.0	280.0
...											
4211	1125.0	4440.0	930.0	4221	2050.0	4440.0	930.0	4225	1125.0	4500.0	930.0
4235	2050.0	4500.0	930.0								

Numerazione nodi ed elementi parete centrale



Numerazione nodi ed elementi parete laterale



2.14.2 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

TABELLA DATI SHELL

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
1401	Setto	182	194	1465	1454	4	50.0		
1402	Setto	192	216	1466	1464	4	50.0		
1403	Setto	216	240	1467	1466	4	50.0		
1404	Setto	240	260	1468	1467	4	50.0		
1405	Setto	260	290	1471	1468	4	50.0		
1406	Setto	264	280	1470	1469	4	50.0		
1407	Setto	280	292	1472	1470	4	50.0		
1408	Setto	290	314	1473	1471	4	50.0		
1409	Setto	314	338	1474	1473	4	50.0		
1410	Setto	338	358	1475	1474	4	50.0		
1411	Setto	358	388	1478	1475	4	50.0		
1412	Setto	362	378	1477	1476	4	50.0		
1413	Setto	378	390	1479	1477	4	50.0		
1414	Setto	388	412	1480	1478	4	50.0		
1415	Setto	412	436	1481	1480	4	50.0		
1416	Setto	436	456	1482	1481	4	50.0		
1417	Setto	456	484	1485	1482	4	50.0		
1418	Setto	460	474	1484	1483	4	50.0		
1419	Setto	474	486	1486	1484	4	50.0		
1420	Setto	484	508	1487	1485	4	50.0		
1421	Setto	508	532	1488	1487	4	50.0		
1422	Setto	532	552	1489	1488	4	50.0		
1423	Setto	552	582	1492	1489	4	50.0		
1424	Setto	556	572	1491	1490	4	50.0		
1425	Setto	572	584	1493	1491	4	50.0		
1426	Setto	582	606	1494	1492	4	50.0		
1427	Setto	606	630	1495	1494	4	50.0		
1428	Setto	630	650	1496	1495	4	50.0		
1429	Setto	650	678	1499	1496	4	50.0		
1430	Setto	654	668	1498	1497	4	50.0		
1431	Setto	668	680	1500	1498	4	50.0		
1432	Setto	678	702	1501	1499	4	50.0		
1433	Setto	702	726	1502	1501	4	50.0		
1434	Setto	726	746	1503	1502	4	50.0		
1435	Setto	746	776	1506	1503	4	50.0		
1436	Setto	750	766	1505	1504	4	50.0		
1437	Setto	766	778	1507	1505	4	50.0		
1438	Setto	776	800	1508	1506	4	50.0		
1439	Setto	800	824	1509	1508	4	50.0		
1440	Setto	824	844	1510	1509	4	50.0		
1441	Setto	844	872	1513	1510	4	50.0		
1442	Setto	848	862	1512	1511	4	50.0		
1443	Setto	862	874	1514	1512	4	50.0		
1444	Setto	872	896	1515	1513	4	50.0		
1445	Setto	896	920	1516	1515	4	50.0		
1446	Setto	920	940	1517	1516	4	50.0		
1447	Setto	940	971	1520	1517	4	50.0		
1448	Setto	944	961	1519	1518	4	50.0		
1449	Setto	961	973	1521	1519	4	50.0		
1450	Setto	971	995	1522	1520	4	50.0		
1451	Setto	995	1019	1523	1522	4	50.0		
1452	Setto	1019	1039	1524	1523	4	50.0		
1453	Setto	1039	1067	1527	1524	4	50.0		
1454	Setto	1043	1057	1526	1525	4	50.0		
1455	Setto	1057	1069	1528	1526	4	50.0		
1456	Setto	1067	1091	1529	1527	4	50.0		
1457	Setto	1091	1115	1530	1529	4	50.0		
1458	Setto	1115	1135	1531	1530	4	50.0		
1459	Setto	1135	1166	1534	1531	4	50.0		
1460	Setto	1139	1156	1533	1532	4	50.0		
1461	Setto	1156	1168	1535	1533	4	50.0		
1462	Setto	1166	1190	1536	1534	4	50.0		
1463	Setto	1190	1214	1537	1536	4	50.0		
1464	Setto	1214	1234	1538	1537	4	50.0		
1465	Setto	1234	1264	1541	1538	4	50.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
1466	Setto	1238	1254	1540	1539	4	50.0		
1467	Setto	1254	1266	1542	1540	4	50.0		
1468	Setto	1264	1288	1543	1541	4	50.0		
1469	Setto	1288	1312	1544	1543	4	50.0		
1470	Setto	1312	1332	1545	1544	4	50.0		
1471	Setto	1332	1360	1554	1545	4	50.0		
1472	Setto	1336	1350	1547	1546	4	50.0		
1536	Setto	1454	1465	1611	1600	4	50.0		
1537	Setto	1464	1466	1612	1610	4	50.0		
1538	Setto	1466	1467	1613	1612	4	50.0		
1539	Setto	1467	1468	1614	1613	4	50.0		
1540	Setto	1468	1471	1617	1614	4	50.0		
1541	Setto	1469	1470	1616	1615	4	50.0		
1542	Setto	1470	1472	1618	1616	4	50.0		
1543	Setto	1471	1473	1619	1617	4	50.0		
1544	Setto	1473	1474	1620	1619	4	50.0		
1545	Setto	1474	1475	1621	1620	4	50.0		
1546	Setto	1475	1478	1624	1621	4	50.0		
1547	Setto	1476	1477	1623	1622	4	50.0		
1548	Setto	1477	1479	1625	1623	4	50.0		
1549	Setto	1478	1480	1626	1624	4	50.0		
1550	Setto	1480	1481	1627	1626	4	50.0		
1551	Setto	1481	1482	1628	1627	4	50.0		
1552	Setto	1482	1485	1631	1628	4	50.0		
1553	Setto	1483	1484	1630	1629	4	50.0		
1554	Setto	1484	1486	1632	1630	4	50.0		
1555	Setto	1485	1487	1633	1631	4	50.0		
1556	Setto	1487	1488	1634	1633	4	50.0		
1557	Setto	1488	1489	1635	1634	4	50.0		
1558	Setto	1489	1492	1638	1635	4	50.0		
1559	Setto	1490	1491	1637	1636	4	50.0		
1560	Setto	1491	1493	1639	1637	4	50.0		
1561	Setto	1492	1494	1640	1638	4	50.0		
1562	Setto	1494	1495	1641	1640	4	50.0		
1563	Setto	1495	1496	1642	1641	4	50.0		
1564	Setto	1496	1499	1645	1642	4	50.0		
1565	Setto	1497	1498	1644	1643	4	50.0		
1566	Setto	1498	1500	1646	1644	4	50.0		
1567	Setto	1499	1501	1647	1645	4	50.0		
1568	Setto	1501	1502	1648	1647	4	50.0		
1569	Setto	1502	1503	1649	1648	4	50.0		
1570	Setto	1503	1506	1652	1649	4	50.0		
1571	Setto	1504	1505	1651	1650	4	50.0		
1572	Setto	1505	1507	1653	1651	4	50.0		
1573	Setto	1506	1508	1654	1652	4	50.0		
1574	Setto	1508	1509	1655	1654	4	50.0		
1575	Setto	1509	1510	1656	1655	4	50.0		
1576	Setto	1510	1513	1659	1656	4	50.0		
1577	Setto	1511	1512	1658	1657	4	50.0		
1578	Setto	1512	1514	1660	1658	4	50.0		
1579	Setto	1513	1515	1661	1659	4	50.0		
1580	Setto	1515	1516	1662	1661	4	50.0		
1581	Setto	1516	1517	1663	1662	4	50.0		
1582	Setto	1517	1520	1666	1663	4	50.0		
1583	Setto	1518	1519	1665	1664	4	50.0		
1584	Setto	1519	1521	1667	1665	4	50.0		
1585	Setto	1520	1522	1668	1666	4	50.0		
1586	Setto	1522	1523	1669	1668	4	50.0		
1587	Setto	1523	1524	1670	1669	4	50.0		
1588	Setto	1524	1527	1673	1670	4	50.0		
1589	Setto	1525	1526	1672	1671	4	50.0		
1590	Setto	1526	1528	1674	1672	4	50.0		
1591	Setto	1527	1529	1675	1673	4	50.0		
1592	Setto	1529	1530	1676	1675	4	50.0		
1593	Setto	1530	1531	1677	1676	4	50.0		
1594	Setto	1531	1534	1680	1677	4	50.0		
1595	Setto	1532	1533	1679	1678	4	50.0		
1596	Setto	1533	1535	1681	1679	4	50.0		
1597	Setto	1534	1536	1682	1680	4	50.0		
1598	Setto	1536	1537	1683	1682	4	50.0		
1599	Setto	1537	1538	1684	1683	4	50.0		
1600	Setto	1538	1541	1687	1684	4	50.0		
1601	Setto	1539	1540	1686	1685	4	50.0		
1602	Setto	1540	1542	1688	1686	4	50.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
1603	Setto	1541	1543	1689	1687	4	50.0		
1604	Setto	1543	1544	1690	1689	4	50.0		
1605	Setto	1544	1545	1691	1690	4	50.0		
1606	Setto	1545	1554	1700	1691	4	50.0		
1607	Setto	1546	1547	1693	1692	4	50.0		
1671	Setto	1600	1611	1757	1746	4	50.0		
1672	Setto	1610	1612	1758	1756	4	50.0		
1673	Setto	1612	1613	1759	1758	4	50.0		
1674	Setto	1613	1614	1760	1759	4	50.0		
1675	Setto	1614	1617	1763	1760	4	50.0		
1676	Setto	1615	1616	1762	1761	4	50.0		
1677	Setto	1616	1618	1764	1762	4	50.0		
1678	Setto	1617	1619	1765	1763	4	50.0		
1679	Setto	1619	1620	1766	1765	4	50.0		
1680	Setto	1620	1621	1767	1766	4	50.0		
1681	Setto	1621	1624	1770	1767	4	50.0		
1682	Setto	1622	1623	1769	1768	4	50.0		
1683	Setto	1623	1625	1771	1769	4	50.0		
1684	Setto	1624	1626	1772	1770	4	50.0		
1685	Setto	1626	1627	1773	1772	4	50.0		
1686	Setto	1627	1628	1774	1773	4	50.0		
1687	Setto	1628	1631	1777	1774	4	50.0		
1688	Setto	1629	1630	1776	1775	4	50.0		
1689	Setto	1630	1632	1778	1776	4	50.0		
1690	Setto	1631	1633	1779	1777	4	50.0		
1691	Setto	1633	1634	1780	1779	4	50.0		
1692	Setto	1634	1635	1781	1780	4	50.0		
1693	Setto	1635	1638	1784	1781	4	50.0		
1694	Setto	1636	1637	1783	1782	4	50.0		
1695	Setto	1637	1639	1785	1783	4	50.0		
1696	Setto	1638	1640	1786	1784	4	50.0		
1697	Setto	1640	1641	1787	1786	4	50.0		
1698	Setto	1641	1642	1788	1787	4	50.0		
1699	Setto	1642	1645	1791	1788	4	50.0		
1700	Setto	1643	1644	1790	1789	4	50.0		
1701	Setto	1644	1646	1792	1790	4	50.0		
1702	Setto	1645	1647	1793	1791	4	50.0		
1703	Setto	1647	1648	1794	1793	4	50.0		
1704	Setto	1648	1649	1795	1794	4	50.0		
1705	Setto	1649	1652	1798	1795	4	50.0		
1706	Setto	1650	1651	1797	1796	4	50.0		
1707	Setto	1651	1653	1799	1797	4	50.0		
1708	Setto	1652	1654	1800	1798	4	50.0		
1709	Setto	1654	1655	1801	1800	4	50.0		
1710	Setto	1655	1656	1802	1801	4	50.0		
1711	Setto	1656	1659	1805	1802	4	50.0		
1712	Setto	1657	1658	1804	1803	4	50.0		
1713	Setto	1658	1660	1806	1804	4	50.0		
1714	Setto	1659	1661	1807	1805	4	50.0		
1715	Setto	1661	1662	1808	1807	4	50.0		
1716	Setto	1662	1663	1809	1808	4	50.0		
1717	Setto	1663	1666	1812	1809	4	50.0		
1718	Setto	1664	1665	1811	1810	4	50.0		
1719	Setto	1665	1667	1813	1811	4	50.0		
1720	Setto	1666	1668	1814	1812	4	50.0		
1721	Setto	1668	1669	1815	1814	4	50.0		
1722	Setto	1669	1670	1816	1815	4	50.0		
1723	Setto	1670	1673	1819	1816	4	50.0		
1724	Setto	1671	1672	1818	1817	4	50.0		
1725	Setto	1672	1674	1820	1818	4	50.0		
1726	Setto	1673	1675	1821	1819	4	50.0		
1727	Setto	1675	1676	1822	1821	4	50.0		
1728	Setto	1676	1677	1823	1822	4	50.0		
1729	Setto	1677	1680	1826	1823	4	50.0		
1730	Setto	1678	1679	1825	1824	4	50.0		
…									
3699	Setto	3538	3539	4225	4211	4	50.0		

2.14.3 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

TABELLA VERIFICHE ELEMENTI PARETE IN C.A.

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
4	ok 182	0.09	0.8	3.24e-02	14.2	12.1	6.3	6.0	741.5	-190.0	-228.8	-2161.4	557.2	111.5
4	ok 194	0.08	0.1	0.5	10.1	10.1	5.7	5.7	-3554.5	-565.3	-1018.9	-4693.3	-300.0	-107.1
4	ok 264	0.13	0.9	5.74e-02	47.7	45.8	16.1	15.7	3054.7	343.0	-330.0	-1085.3	42.7	294.0
4	ok 280	0.08	0.4	0.2	10.1	10.1	5.7	5.7	-544.2	-133.5	168.5	-6354.0	-753.6	-893.4
4	ok 292	0.08	0.2	0.8	10.1	10.1	5.7	5.7	-5779.4	-810.3	-966.2	-6100.5	-85.1	-308.0
4	ok 362	0.13	0.9	0.2	41.2	31.5	10.3	9.4	2378.4	310.1	-191.6	-6297.0	-80.6	540.9
4	ok 378	0.08	0.8	0.2	10.1	10.1	5.7	5.7	-550.2	-215.6	149.0	-1.272e+04	-1566.0	-579.8
4	ok 390	0.10	0.3	0.8	15.7	21.8	11.3	13.8	-6620.9	-944.7	-1237.8	-8830.5	-155.1	-208.2
4	ok 460	0.13	0.9	0.3	34.2	21.5	9.1	7.0	-2838.9	-406.3	441.5	-8166.7	-218.3	168.4
4	ok 474	0.08	0.6	0.2	10.1	10.1	5.7	5.7	-1054.0	-129.9	85.5	-8144.1	-979.1	-305.9
4	ok 486	0.08	0.3	0.8	10.1	10.1	5.7	5.7	-5834.6	-826.8	-978.0	-9121.2	-102.9	-301.9
4	ok 556	0.13	0.9	0.4	32.6	16.9	7.5	5.7	-3513.0	-522.1	643.8	-9833.2	-291.6	133.5
4	ok 572	0.08	0.8	0.1	10.1	10.1	5.7	5.7	-702.4	-189.6	129.8	-1.619e+04	-1874.4	-297.1
4	ok 584	0.08	0.6	0.8	10.1	10.1	5.7	5.7	-5692.8	-834.9	-1052.5	-1.115e+04	-184.6	-411.4
4	ok 654	0.14	0.9	0.4	32.7	10.1	8.0	5.7	-3637.4	-507.9	571.1	-3359.4	310.3	174.4
4	ok 668	0.08	0.8	0.2	10.1	10.1	5.7	5.7	-939.6	-223.2	80.6	-1.318e+04	-1617.1	133.0
4	ok 680	0.08	0.6	0.6	10.1	10.1	5.7	5.7	-4876.9	-707.4	-807.3	-1.770e+04	-715.8	-504.4
4	ok 750	0.13	0.9	0.5	30.2	10.1	7.0	5.7	-4114.4	-592.6	744.8	-4244.7	252.0	124.2
4	ok 766	0.08	0.9	0.1	10.1	10.1	5.7	5.7	-731.0	-160.5	113.0	-1.211e+04	-1579.1	-333.7
4	ok 778	0.08	0.9	0.7	11.4	10.1	6.3	5.7	-4894.2	-729.3	-895.7	-1.982e+04	-801.8	-638.4
4	ok 848	0.12	0.9	0.5	27.5	10.1	6.6	5.7	-3945.2	-538.8	626.8	-3237.3	366.3	147.7
4	ok 862	0.08	0.9	0.1	10.1	10.1	5.7	5.7	-961.3	-199.6	59.8	-1.481e+04	-1826.2	73.8
4	ok 874	0.09	0.9	0.6	14.1	10.1	5.7	5.7	-4303.1	-626.9	-711.6	-2.026e+04	-816.3	-665.6
4	ok 944	0.11	0.9	0.5	24.2	10.1	6.8	5.7	-4133.6	-582.0	762.4	-4209.8	289.4	141.4
4	ok 961	0.08	0.9	0.1	10.1	10.1	5.7	5.7	-721.3	-188.2	31.0	-1.501e+04	-1916.3	-34.9
4	ok 973	0.09	0.9	0.6	14.3	10.1	5.8	5.7	-4446.9	-661.1	-810.3	-2.166e+04	-874.3	-777.3
4	ok 1043	0.11	0.9	0.5	22.3	10.1	6.5	5.7	-3729.3	-499.0	606.9	-3172.7	388.9	211.2
4	ok 1057	0.08	0.9	0.1	10.1	10.1	5.7	5.7	-948.2	-187.5	54.3	-1.536e+04	-1877.3	208.8
4	ok 1069	0.08	0.9	0.5	11.7	10.1	5.7	5.7	-3931.3	-561.2	-658.4	-2.068e+04	-839.8	-682.2
4	ok 1139	0.10	1.0	0.5	20.1	10.1	6.6	5.7	-3762.4	-525.3	701.6	-3650.0	292.5	140.5
4	ok 1156	0.08	0.9	0.1	10.1	10.1	5.7	5.7	-721.5	-170.5	19.3	-1.377e+04	-1726.1	359.5
4	ok 1168	0.08	0.8	0.5	10.1	10.1	5.7	5.7	-4017.6	-583.7	-739.3	-1.841e+04	-778.7	-365.5
4	ok 1238	0.10	0.9	0.4	20.9	10.1	6.7	5.7	-3123.3	-422.3	495.3	-1856.6	320.8	142.1
4	ok 1254	0.08	0.7	0.1	10.1	10.1	5.7	5.7	-740.7	-129.6	108.0	3432.9	346.6	406.3
4	ok 1266	0.09	0.9	0.4	10.1	13.5	5.7	5.7	-3023.6	-429.7	-501.6	-9607.5	-466.3	692.3
4	ok 1336	0.15	0.9	0.2	41.6	18.1	14.7	11.0	-1914.6	-275.3	295.3	4683.5	-306.4	-766.3
4	ok 1350	0.10	0.9	8.82e-02	19.1	10.1	10.1	5.7	220.1	9.8	21.9	6976.9	-344.4	-553.3
4	ok 1454	0.08	0.4	0.2	10.1	10.1	5.7	5.7	-807.7	-387.7	-835.1	143.2	592.7	1254.4
4	ok 1465	0.08	0.3	0.1	10.1	10.1	5.7	5.7	-795.1	262.8	274.6	806.6	-56.6	618.0
4	ok 1469	0.12	0.8	8.75e-02	33.4	28.5	9.6	7.9	2100.7	14.5	-66.0	-3307.8	-56.3	562.5
4	ok 1470	0.08	0.4	0.3	10.1	10.1	5.7	5.7	-1380.2	97.5	-347.0	-3750.9	-38.1	704.3
4	ok 1472	0.08	0.2	0.5	10.1	10.1	5.7	5.7	-3842.0	-40.9	-97.3	-3859.3	-30.2	245.9
4	ok 1476	0.12	0.9	0.2	31.4	21.7	9.8	8.1	1769.6	77.4	-147.8	-6530.4	-49.0	416.4
4	ok 1477	0.08	0.7	0.3	10.1	10.1	5.7	5.7	-1746.3	100.5	-327.3	-7890.6	-132.3	571.0
4	ok 1479	0.08	0.5	0.5	10.5	10.8	6.1	6.4	-3884.3	-53.1	-234.4	-6312.6	-42.5	562.5
4	ok 1483	0.11	0.9	0.3	26.0	16.1	9.6	7.9	-2315.7	-16.4	3.6	-7118.9	17.1	-360.0
4	ok 1484	0.08	0.4	0.3	10.1	10.1	5.7	5.7	-1939.0	72.8	-163.0	-9115.4	-106.7	591.1
4	ok 1486	0.08	0.6	0.5	10.1	10.1	5.7	5.7	-3760.7	-59.2	-202.5	-6775.1	-35.2	646.0
4	ok 1490	0.12	0.9	0.3	28.1	16.0	10.9	9.5	-2507.9	11.4	2.2	-8375.2	44.4	-306.7
4	ok 1491	0.08	0.5	0.3	10.1	10.1	5.7	5.7	-1694.0	65.0	-126.0	-1.114e+04	-162.4	390.0
4	ok 1493	0.09	0.9	0.5	14.3	10.5	9.9	6.1	-3322.5	-43.8	-233.2	-8391.1	180.5	551.2
4	ok 1497	0.13	0.9	0.3	28.6	10.1	12.3	5.7	-2391.0	-36.6	162.4	-3494.9	-185.6	-311.5
4	ok 1498	0.08	0.5	0.3	10.1	10.1	5.7	5.7	-1537.3	10.6	-550.3	-1.419e+04	-174.3	758.9
4	ok 1500	0.08	0.8	0.4	11.2	10.1	6.8	5.7	-3435.6	95.3	80.1	-1.445e+04	-155.2	651.4
4	ok 1504	0.13	0.9	0.3	29.4	10.1	13.8	5.7	-2409.8	-32.9	197.1	-4273.1	-205.8	-181.3
4	ok 1505	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1531.6	-47.4	-588.9	-1.549e+04	-161.4	529.1
4	ok 1507	0.09	0.8	0.4	16.7	13.3	8.7	8.9	-3235.6	94.7	64.2	-1.598e+04	-140.5	520.1
4	ok 1511	0.12	0.9	0.3	26.4	10.1	12.5	5.7	-2552.4	-37.9	167.3	-3381.3	-209.2	-232.8
4	ok 1512	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1419.1	12.0	-460.5	-1.624e+04	-187.6	565.0
4	ok 1514	0.09	0.8	0.4	14.8	12.3	6.9	7.9	-3080.2	64.1	55.1	-1.655e+04	-160.6	610.2
4	ok 1518	0.12	0.9	0.3	25.7	10.1	14.1	5.7	-2393.5	-35.0	188.3	-4092.8	-223.9	-181.0
4	ok 1519	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1571.8	-53.0	-504.9	-1.700e+04	-178.9	402.2
4	ok 1521	0.10	0.8	0.4	17.1	13.8	7.5	9.3	-2968.9	85.8	60.0	-1.751e+04	-138.7	429.5
4	ok 1525	0.11	0.9	0.3	22.5	10.1	11.1	5.7	-2405.7	-34.3	148.5	-2910.3	-220.7	-223.0
4	ok 1526	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1472.1	-10.2	-408.7	-1.707e+04	-181.6	431.1
4	ok 1528	0.08	0.8	0.4	12.4	10.8	6.5	6.4	-2789.6	66.4	61.2	-1.750e+04	-152.2	451.6
4	ok 1532	0.10	0.9	0.3	21.3	10.1	11.8	5.7	-2183.3	-32.4	162.8	-2876.0	-233.5	-133.9

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
4	ok 1533	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1487.8	-66.6	-449.3	-1.593e+04	-148.3	371.8
4	ok 1535	0.09	0.8	0.3	13.8	12.1	7.2	7.7	-2654.1	83.9	64.4	-1.662e+04	-112.5	257.9
4	ok 1539	0.09	0.9	0.3	17.1	10.1	8.8	5.7	-2277.1	34.3	-33.9	2442.3	315.3	-431.5
4	ok 1540	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1134.6	2.6	-332.4	-1.168e+04	-124.5	486.6
4	ok 1542	0.08	0.8	0.3	11.2	11.7	6.3	6.7	-2152.6	38.5	36.9	-1.222e+04	47.2	103.2
4	ok 1546	0.11	0.9	0.2	23.3	13.9	8.6	9.1	-1773.9	-49.5	64.5	5763.7	-166.5	-224.5
4	ok 1547	0.09	0.9	6.01e-02	16.4	10.6	8.3	6.2	133.0	63.8	250.0	3277.2	-875.6	-532.2
4	ok 1600	0.08	0.2	5.76e-02	10.1	10.1	5.7	5.7	-247.0	-48.3	-126.3	-54.4	146.6	848.9
4	ok 1611	0.08	4.26e-02	4.84e-02	10.1	10.1	5.7	5.7	-343.4	15.9	8.3	47.7	26.5	308.3
4	ok 1615	0.09	0.9	0.1	13.7	10.2	8.4	5.8	-624.4	-1.5	64.8	-2579.8	23.6	-155.4
4	ok 1616	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1408.5	13.9	-409.3	-3040.0	-3.4	740.5
4	ok 1618	0.08	0.1	0.4	10.1	10.1	5.7	5.7	-2761.3	15.0	-39.8	-3034.7	10.7	273.7
4	ok 1622	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1016.1	1.8	-75.1	-6001.3	-15.5	131.2
4	ok 1623	0.08	0.3	0.2	10.1	10.1	5.7	5.7	-1764.0	18.0	-398.0	-5973.4	-13.9	603.2
4	ok 1625	0.08	0.2	0.4	10.1	10.1	5.7	5.7	-2512.5	-2.7	-58.3	-5967.1	1.4	269.1
4	ok 1629	0.08	0.6	0.3	10.1	10.1	5.7	5.7	-2098.8	-99.8	107.9	-5495.9	-33.8	-244.4
4	ok 1630	0.08	0.3	0.3	10.1	10.1	5.7	5.7	-1937.5	8.2	-221.3	-6933.8	-11.3	600.3
4	ok 1632	0.08	0.2	0.4	10.1	10.1	5.7	5.7	-2461.9	-6.3	-167.7	-5132.3	-22.5	645.4
4	ok 1636	0.08	0.6	0.3	10.1	10.1	5.7	5.7	-2056.5	-103.1	146.4	-6128.9	-31.0	-230.1
4	ok 1637	0.08	0.3	0.2	10.1	10.1	5.7	5.7	-1684.4	9.2	-182.8	-8068.4	-18.8	406.6
4	ok 1639	0.08	0.3	0.3	10.1	10.1	5.7	5.7	-1912.6	9.1	-200.0	-6112.7	-23.2	540.8
4	ok 1643	0.08	0.8	0.3	10.1	10.1	5.7	5.7	-1684.4	-4.7	144.2	-3628.7	-187.5	-308.1
4	ok 1644	0.08	0.4	0.2	10.1	10.1	5.7	5.7	-1217.4	9.0	-370.9	-1.020e+04	-179.6	831.5
4	ok 1646	0.08	0.3	0.3	10.1	10.1	5.7	5.7	-2600.3	-98.5	-150.4	-1.022e+04	-181.1	624.6
4	ok 1650	0.08	0.7	0.3	10.1	10.1	5.7	5.7	-1490.5	11.7	175.9	-4049.0	-201.9	-194.3
4	ok 1651	0.08	0.4	0.2	10.1	10.1	5.7	5.7	-1241.3	-1.4	-401.0	-1.088e+04	-189.7	593.8
4	ok 1653	0.08	0.3	0.3	10.1	10.1	5.7	5.7	-2334.9	-99.2	-172.9	-1.087e+04	-182.1	505.8
4	ok 1657	0.08	0.8	0.3	10.1	10.1	5.7	5.7	-1725.9	-5.4	146.7	-3512.0	-208.4	-244.6
4	ok 1658	0.08	0.4	0.2	10.1	10.1	5.7	5.7	-1221.4	15.1	-309.5	-1.154e+04	-198.0	684.5
4	ok 1660	0.08	0.4	0.3	10.1	10.1	5.7	5.7	-2381.8	-97.6	-138.9	-1.158e+04	-203.8	576.4
4	ok 1664	0.08	0.6	0.3	10.1	10.1	5.7	5.7	-1467.6	10.7	165.3	-3818.2	-214.7	-199.9
4	ok 1665	0.08	0.4	0.2	10.1	10.1	5.7	5.7	-1276.3	6.87e-02	-340.4	-1.185e+04	-202.2	477.0
4	ok 1667	0.08	0.3	0.3	10.1	10.1	5.7	5.7	-2227.6	-91.0	-152.5	-1.185e+04	-194.5	452.7
4	ok 1671	0.08	0.6	0.3	10.1	10.1	5.7	5.7	-1651.4	-3.6	127.6	-3001.1	-211.5	-230.4
4	ok 1672	0.08	0.4	0.2	10.1	10.1	5.7	5.7	-1223.8	11.0	-267.6	-1.214e+04	-196.0	539.9
4	ok 1674	0.08	0.4	0.3	10.1	10.1	5.7	5.7	-2207.8	-82.3	-117.1	-1.219e+04	-210.5	505.9
4	ok 1678	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1365.7	9.5	141.3	-2726.6	-203.6	-155.9
4	ok 1679	0.08	0.4	0.2	10.1	10.1	5.7	5.7	-1177.2	-1.4	-297.6	-1.126e+04	-180.7	288.0
4	ok 1681	0.08	0.3	0.3	10.1	10.1	5.7	5.7	-2022.3	-76.2	-128.8	-1.128e+04	-190.1	367.2
4	ok 1685	0.08	0.5	0.2	10.1	10.1	5.7	5.7	-1402.3	-1.9	106.9	-755.6	-161.9	-160.3
4	ok 1686	0.08	0.3	0.2	10.1	10.1	5.7	5.7	-949.8	10.0	-225.2	-8543.9	-131.6	293.0
4	ok 1688	0.08	0.3	0.2	10.1	10.1	5.7	5.7	-1642.6	-70.6	-99.5	-8655.7	-183.4	346.5
4	ok 1692	0.08	0.3	0.2	10.1	10.1	5.7	5.7	-1174.8	-80.4	133.5	-1430.4	-97.5	493.2
4	ok 1693	0.08	0.2	4.69e-02	10.1	10.1	5.7	5.7	70.5	-2.0	161.5	-1356.3	-185.8	-164.8
4	ok 1746	0.08	0.1	3.35e-02	10.1	10.1	5.7	5.7	-255.5	-9.3	31.3	-26.2	268.6	753.0
4	ok 1757	0.08	3.87e-02	3.78e-02	10.1	10.1	5.7	5.7	-292.3	-7.5	14.7	-19.8	-42.5	254.4
4	ok 1761	0.08	0.1	0.1	10.1	10.1	5.7	5.7	-1143.1	-3.8	-66.0	-2338.5	-1.8	223.2
4	ok 1762	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1392.5	10.8	-410.8	-2341.0	-1.8	743.7
4	ok 1764	0.08	8.78e-02	0.2	10.1	10.1	5.7	5.7	-1660.0	-0.4	-53.1	-2341.1	0.5	277.4
4	ok 1768	0.08	0.1	0.3	10.1	10.1	5.7	5.7	-2055.1	-10.4	-69.6	-4106.4	-5.7	124.8
4	ok 1769	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1724.2	25.1	-386.0	-4110.7	-4.1	609.6
4	ok 1771	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-1440.2	-6.2	-61.6	-4104.6	10.3	267.9
4	ok 1775	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-1956.3	-3.0	-40.3	-4783.3	-3.2	111.9
4	ok 1776	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-1919.6	6.2	-220.9	-4780.0	1.7	599.8
4	ok 1778	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1883.5	-0.8	-31.4	-4777.4	-2.4	279.9
4	ok 1782	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-1878.9	-6.5	-38.5	-5054.9	-10.8	6.5
4	ok 1783	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1651.3	5.5	-168.1	-5054.1	-14.8	409.4
4	ok 1785	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1690.4	-66.2	152.1	-4305.1	-139.9	-189.2
4	ok 1789	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1534.2	-49.4	-166.0	-4473.3	173.0	330.8
4	ok 1790	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1265.7	-7.7	-352.6	-6118.4	-177.3	839.1
4	ok 1792	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1510.4	-51.9	-159.9	-6128.5	-181.5	624.4
4	ok 1796	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1892.8	-56.3	-178.7	-4481.6	1.9	172.8
4	ok 1797	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1233.3	-27.0	-384.8	-6052.5	-186.9	606.5
4	ok 1799	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1144.5	-38.8	-181.0	-6060.5	-200.4	514.9
4	ok 1803	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1455.6	-48.4	-154.6	-4858.8	194.3	159.6
4	ok 1804	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1206.5	-6.5	-289.5	-6384.2	-167.0	676.5
4	ok 1806	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1462.8	-50.2	-144.6	-6395.0	-172.0	544.1
4	ok 1810	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1827.6	-52.4	-158.9	-4715.1	204.6	37.8
4	ok 1811	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1280.1	-23.1	-320.1	-6134.8	-169.0	482.0
4	ok 1813	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1229.9	-35.1	-155.2	-6143.7	-184.2	437.5
4	ok 1817	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1428.7	-42.5	-132.6	-4964.8	198.5	79.9
4	ok 1818	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1214.8	-6.6	-251.3	-7034.7	-201.9	549.1
4	ok 1820	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1418.3	-43.3	-125.6	-7043.8	-207.7	509.8
4	ok 1824	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1513.8	-3.3	-13.1	-4627.9	-9.9	-120.4

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
4	ok 1825	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1214.5	-20.8	-283.0	-6177.4	-191.4	288.1
4	ok 1827	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1146.2	-30.7	-135.7	-6178.4	-206.6	375.8
4	ok 1831	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1224.4	-23.7	-80.9	-2966.2	30.2	202.1
4	ok 1832	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1022.5	2.5	-177.5	-2964.7	32.8	415.5
4	ok 1834	0.08	0.2	0.1	10.1	10.1	5.7	5.7	-1020.2	-21.6	-66.4	-2873.8	-8.6	311.1
4	ok 1838	0.08	6.61e-02	0.1	10.1	10.1	5.7	5.7	-694.9	-31.9	82.6	-1097.1	-57.9	364.4
4	ok 1839	0.08	8.12e-02	7.42e-02	10.1	10.1	5.7	5.7	-57.3	-16.9	112.0	-1038.7	-64.9	143.0
4	ok 1892	0.08	0.1	3.28e-02	10.1	10.1	5.7	5.7	200.3	124.7	-99.3	-101.2	611.3	574.2
4	ok 1903	0.08	6.35e-02	4.95e-02	10.1	10.1	5.7	5.7	-372.4	-73.7	56.9	847.2	19.8	79.3
4	ok 1907	0.08	0.1	0.3	10.1	10.1	5.7	5.7	-2214.8	-0.2	-62.4	-1636.1	9.8	223.7
4	ok 1908	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1354.0	56.0	-412.9	-1639.9	3.6	757.6
4	ok 1910	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-555.5	7.6	-51.6	-1643.0	-1.6	285.7
4	ok 1914	0.08	0.7	0.4	10.9	10.5	7.3	6.9	-3165.9	-91.3	-232.6	-876.9	26.9	333.3
4	ok 1915	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-1665.8	72.3	-451.0	-2289.0	23.2	620.9
4	ok 1917	0.10	0.7	0.2	16.6	15.6	8.2	7.7	-335.2	8.7	-47.9	-2248.1	-17.7	277.1
4	ok 1921	0.08	0.1	0.4	10.1	10.1	5.7	5.7	-2507.8	-13.4	-176.0	-1247.0	29.5	425.0
4	ok 1922	0.08	0.1	0.3	10.1	10.1	5.7	5.7	-1917.9	-8.2	-239.5	-2631.7	-11.3	608.0
4	ok 1924	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-2017.9	-87.3	102.9	-3499.8	-3.4	-211.4
4	ok 1928	0.08	0.8	0.4	11.1	10.1	6.7	5.7	-2839.1	-81.0	-236.4	-871.7	11.8	260.3
4	ok 1929	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-1182.5	106.3	142.6	-2440.6	193.0	-112.0
4	ok 1931	0.09	0.8	0.3	16.2	13.4	8.9	7.6	-1738.4	-48.0	182.9	-2450.1	157.7	-207.3
4	ok 1935	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-2076.5	-14.1	-172.5	-2049.8	-160.3	340.2
4	ok 1936	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-1635.4	-10.0	-70.1	-2612.9	38.2	390.3
4	ok 1938	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-2183.7	-94.7	132.8	-3934.0	-188.6	-265.5
4	ok 1942	0.08	0.8	0.4	12.1	10.1	7.7	5.7	-2443.4	-68.2	-220.7	-1422.2	-4.6	125.1
4	ok 1943	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-1616.6	-9.6	-4.4	-1889.8	-74.4	201.5
4	ok 1945	0.09	0.7	0.3	12.7	12.3	8.3	7.8	-2478.9	65.2	26.1	-3734.6	136.2	-151.9
4	ok 1949	0.08	0.3	0.3	10.1	10.1	5.7	5.7	-1853.0	-12.3	-160.2	-1904.2	-180.6	165.5
4	ok 1950	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-1203.4	47.4	-276.3	-1905.9	-202.6	574.0
4	ok 1952	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-2215.0	-94.8	140.1	-3846.0	-213.6	-264.4
4	ok 1956	0.08	0.8	0.3	12.3	10.1	7.9	5.7	-2665.8	116.2	10.0	1223.5	411.5	-95.6
4	ok 1957	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-1619.1	-16.5	57.1	-1477.0	-106.5	93.1
4	ok 1959	0.08	0.3	0.3	10.1	10.1	5.7	5.7	-2411.9	86.1	10.9	-3499.9	134.0	-120.0
4	ok 1963	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-1769.4	-11.1	-137.5	-2190.1	-184.9	89.7
4	ok 1964	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-1204.9	40.9	-235.7	-2199.7	-207.5	417.7
4	ok 1966	0.08	0.1	0.3	10.1	10.1	5.7	5.7	-2073.7	-84.6	124.1	-3343.8	-221.4	-235.9
4	ok 1970	0.08	0.7	0.3	10.1	10.1	5.7	5.7	-2423.2	116.6	23.5	1138.6	397.4	-140.6
4	ok 1971	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-1479.4	-31.2	136.0	-1373.7	-84.5	-31.0
4	ok 1973	0.08	0.2	0.3	10.1	10.1	5.7	5.7	-2135.3	84.0	1.5	-2851.1	-145.3	-112.7
4	ok 1977	0.08	0.1	0.2	10.1	10.1	5.7	5.7	-1521.5	-6.6	-83.7	-1314.5	-27.9	198.3
4	ok 1978	0.08	8.61e-02	0.2	10.1	10.1	5.7	5.7	-1022.6	24.3	-170.1	-1314.2	-42.7	346.4
4	ok 1980	0.08	9.08e-02	0.2	10.1	10.1	5.7	5.7	-1588.5	-76.1	107.1	-2141.9	-177.3	-209.2
4	ok 1984	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1259.2	-26.3	-125.5	-122.0	-156.6	366.8
4	ok 1985	0.08	0.1	0.1	10.1	10.1	5.7	5.7	-492.4	27.2	-390.0	-92.3	-569.2	271.3
4	ok 2041	0.11	0.5	6.42e-02	22.1	22.9	17.7	18.0	935.2	9.7	-864.0	136.6	527.8	-261.1
4	ok 2052	0.08	0.3	0.2	10.1	10.1	5.7	5.7	-922.1	-574.3	659.4	255.6	-8.5	-1536.3
4	ok 2056	0.08	0.2	0.5	10.1	10.1	5.7	5.7	-3553.4	39.2	73.5	-929.7	-301.8	170.1
4	ok 2057	0.08	0.2	0.2	10.1	10.1	5.7	5.7	-1429.5	-82.4	-397.5	-971.2	-111.6	727.8
…														
4	ok 4225	0.09	1.0	8.32e-02	15.7	12.7	11.3	8.3	-668.6	108.8	-0.1	1.843e+04	6327.2	-7628.5

		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
Min									-6620.86	-1682.54	-1237.84	-2.166e+04	-6879.90	-8245.81
Max		0.15	0.96	0.83	70.22	69.53	60.66	56.58	3054.66	2477.56	973.08	1.843e+04	6327.19	5037.08

L’armatura della parete centrale è costituita da una maglia base di 1+1ϕ16/20 vert. e 1+1ϕ12/20 oriz., a cui si aggiungono ferri alternati ove necessario.
I setti 100 cm x 50 cm fra platea e fondo vasche MBR sono armati con 1ϕ16/10 verticali, 2 staffe ϕ10/10 per 100 cm agli estremi e ϕ10/20 nel tratto centrale.

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
5	ok 192	0.08	0.5	4.84e-02	10.1	10.1	5.7	5.7	146.5	278.5	204.3	271.9	-841.9	1329.9
5	ok 216	0.08	0.8	4.24e-02	10.1	10.3	5.7	5.9	-46.4	-145.5	219.6	5101.7	627.0	2972.3
5	ok 240	0.08	0.9	5.44e-02	10.1	10.6	5.7	6.2	-207.9	-126.7	243.0	9872.7	1930.7	4054.2
5	ok 260	0.08	1.0	6.89e-02	10.1	11.2	5.7	6.8	-333.9	-166.4	266.8	1.447e+04	3013.4	3943.2
5	ok 290	0.08	1.0	8.01e-02	10.1	12.1	5.7	7.7	-413.5	-191.7	157.9	1.852e+04	3896.1	3441.7
5	ok 314	0.09	1.0	8.72e-02	10.1	13.1	5.7	8.7	-464.2	-222.1	177.1	2.182e+04	4574.3	2512.7
5	ok 338	0.09	1.0	9.11e-02	10.1	14.1	5.7	9.7	-495.1	-240.6	317.6	2.431e+04	5062.2	2172.8
5	ok 358	0.09	1.0	9.32e-02	10.1	14.9	5.7	10.5	-507.8	-243.0	327.8	2.612e+04	5400.3	1682.9
5	ok 388	0.09	1.0	9.40e-02	10.1	15.6	5.7	10.5	-510.8	-240.7	335.0	2.735e+04	5616.2	1238.6
5	ok 412	0.09	1.0	9.40e-02	10.1	16.1	5.7	10.5	-508.0	-235.8	340.1	2.812e+04	5739.5	858.2
5	ok 436	0.09	1.0	9.36e-02	10.1	16.5	5.7	10.4	-501.9	-229.3	343.6	2.855e+04	5795.3	545.9
5	ok 456	0.09	1.0	9.28e-02	10.1	16.7	5.7	10.3	-529.5	-287.3	249.4	2.908e+04	5854.2	793.0
5	ok 484	0.09	1.0	9.19e-02	10.1	16.9	5.7	10.1	-522.3	-288.3	248.3	2.910e+04	5836.6	587.0
5	ok 508	0.09	1.0	9.10e-02	10.1	17.0	5.7	9.9	-516.2	-289.5	244.3	2.907e+04	5814.9	426.7
5	ok 532	0.09	1.0	8.99e-02	10.1	17.0	5.7	9.7	-509.4	-288.1	242.3	2.889e+04	5766.4	310.1
5	ok 552	0.09	1.0	8.89e-02	10.1	17.0	5.7	9.5	-503.0	-285.9	239.9	2.865e+04	5711.1	223.9
5	ok 582	0.09	1.0	8.78e-02	10.1	16.9	5.7	9.3	-497.1	-283.2	237.4	2.839e+04	5652.9	160.7
5	ok 606	0.09	1.0	8.67e-02	10.1	16.8	5.7	9.2	-491.7	-280.1	234.7	2.812e+04	5594.4	114.7
5	ok 630	0.09	1.0	8.58e-02	10.1	16.7	5.7	9.0	-486.9	-276.5	232.1	2.785e+04	4705.2	81.1
5	ok 650	0.09	1.0	8.19e-02	10.1	16.6	5.7	8.9	-470.4	-269.4	232.2	2.704e+04	4555.9	57.8
5	ok 678	0.09	1.0	8.10e-02	10.1	16.5	5.7	8.8	-465.8	-262.6	116.8	2.272e+04	4513.9	-104.2
5	ok 702	0.09	1.0	8.00e-02	10.1	16.4	5.7	8.7	-462.4	-256.8	114.4	2.251e+04	4471.7	-118.5
5	ok 726	0.09	1.0	7.77e-02	10.1	16.2	5.7	8.6	-459.3	-250.3	111.5	2.229e+04	4429.7	-129.9
5	ok 746	0.09	1.0	7.66e-02	10.1	16.1	5.7	8.5	-454.3	-246.9	105.4	2.198e+04	4368.4	-140.3
5	ok 776	0.09	1.0	7.47e-02	10.1	16.0	5.7	8.3	-451.5	-240.1	101.5	2.179e+04	4330.0	-148.2
5	ok 800	0.09	1.0	7.38e-02	10.1	15.8	5.7	8.2	-450.5	-212.6	100.1	2.167e+04	4308.1	-154.2
5	ok 824	0.09	1.0	7.29e-02	10.1	15.7	5.7	8.1	-447.9	-205.4	95.9	2.147e+04	4269.5	-160.9
5	ok 844	0.09	1.0	7.20e-02	10.1	15.6	5.7	8.0	-440.5	-189.5	215.1	2.132e+04	4237.5	158.9
5	ok 872	0.09	1.0	7.10e-02	10.1	15.6	5.7	7.8	-438.9	-182.5	209.8	2.110e+04	4196.7	149.9
5	ok 896	0.09	1.0	7.01e-02	10.1	15.5	5.7	7.7	-437.5	-175.1	203.9	2.089e+04	4157.1	139.1
5	ok 920	0.09	1.0	6.90e-02	10.1	15.5	5.7	7.5	-436.3	-167.5	197.3	2.068e+04	4118.6	125.4
5	ok 940	0.09	1.0	6.80e-02	10.1	15.5	5.7	7.3	-435.3	-160.0	190.0	2.047e+04	4080.7	107.3
5	ok 971	0.09	1.0	6.79e-02	10.1	15.4	5.7	7.1	-453.0	-166.0	-170.2	2.579e+04	5167.1	381.7
5	ok 995	0.09	1.0	6.83e-02	10.1	15.3	5.7	7.0	-455.7	-163.4	-171.7	2.579e+04	5171.2	345.6
5	ok 1019	0.09	1.0	6.88e-02	10.1	14.9	5.7	6.8	-458.9	-161.0	-173.3	2.576e+04	5173.8	295.9
5	ok 1039	0.09	1.0	6.95e-02	10.1	14.0	5.7	6.6	-462.5	-158.8	-174.8	2.687e+04	5173.0	228.1
5	ok 1067	0.09	1.0	7.01e-02	10.1	13.9	5.7	6.4	-466.4	-156.7	-176.5	2.677e+04	5395.6	87.3
5	ok 1091	0.09	1.0	7.07e-02	10.1	13.7	5.7	6.7	-470.5	-154.7	-178.4	2.661e+04	5379.7	-35.9
5	ok 1115	0.09	1.0	7.13e-02	10.1	13.4	5.7	7.1	-474.5	-153.1	-180.7	2.634e+04	5347.5	-201.5
5	ok 1135	0.09	1.0	7.20e-02	10.1	13.2	5.7	7.3	-477.9	-152.2	-183.3	2.593e+04	5290.8	-419.1
5	ok 1166	0.09	1.0	7.25e-02	10.1	12.9	5.7	7.4	-481.4	-154.1	-182.9	2.539e+04	5214.1	-688.4
5	ok 1190	0.08	1.0	7.27e-02	10.1	12.5	5.7	7.6	-480.7	-155.6	-185.5	2.450e+04	5071.1	-1018.7
5	ok 1214	0.08	1.0	7.24e-02	10.1	12.0	5.7	7.6	-474.9	-158.0	-187.0	2.325e+04	4855.1	-1412.0
5	ok 1234	0.08	1.0	7.10e-02	10.1	11.4	5.7	7.0	-459.8	-160.7	-186.6	2.150e+04	4533.4	-2071.5
5	ok 1264	0.08	1.0	6.75e-02	10.1	10.9	5.7	6.5	-427.6	-162.0	-183.3	1.908e+04	4053.9	-2597.8
5	ok 1288	0.08	1.0	6.06e-02	10.1	10.3	5.7	5.9	-364.4	-158.5	-176.2	1.575e+04	3334.8	-3118.4
5	ok 1312	0.08	0.9	4.85e-02	10.1	10.1	5.7	5.7	-247.7	-144.4	-166.3	1.132e+04	2152.5	-3446.3
5	ok 1332	0.08	0.7	3.49e-02	10.1	10.1	5.7	5.7	-56.9	-107.5	-161.9	5723.8	678.9	-3180.2
5	ok 1360	0.08	0.2	1.90e-02	10.1	10.1	5.7	5.7	184.4	-60.7	-152.6	822.6	-958.2	-1028.8
5	ok 1464	0.08	0.7	3.83e-02	10.1	10.1	5.7	5.7	35.4	-126.2	230.0	517.8	-5245.1	766.7
5	ok 1466	0.08	0.5	3.99e-02	10.1	10.1	5.7	5.7	-66.7	-88.7	130.0	3139.3	-997.0	3264.9
5	ok 1467	0.08	0.7	4.42e-02	10.1	10.1	5.7	5.7	-195.1	-85.0	116.3	6834.4	973.1	4032.0
5	ok 1468	0.08	0.8	5.64e-02	10.1	10.1	5.7	5.7	-307.1	-83.0	139.7	1.025e+04	2389.3	3677.5
5	ok 1471	0.08	0.9	6.77e-02	10.1	10.1	5.7	5.7	-390.2	-99.7	233.7	1.331e+04	3305.2	3529.0
5	ok 1473	0.08	0.9	7.61e-02	10.1	10.6	5.7	6.2	-444.0	-110.1	259.5	1.592e+04	3968.1	3110.8
5	ok 1474	0.08	1.0	8.21e-02	10.1	11.0	5.7	6.6	-475.0	-121.5	213.7	1.800e+04	4390.5	2522.9
5	ok 1475	0.08	1.0	8.55e-02	10.1	11.4	5.7	7.0	-493.6	-133.8	296.3	1.959e+04	4659.7	2111.6
5	ok 1478	0.08	1.0	8.75e-02	10.1	11.6	5.7	7.2	-500.1	-138.3	307.4	2.072e+04	4791.9	1637.1
5	ok 1480	0.08	1.0	8.83e-02	10.1	11.7	5.7	7.3	-499.6	-140.9	315.0	2.149e+04	4836.8	1216.9
5	ok 1481	0.08	1.0	8.85e-02	10.1	11.7	5.7	7.3	-495.0	-141.6	320.6	2.196e+04	4824.2	861.1
5	ok 1482	0.08	1.0	8.83e-02	10.1	11.7	5.7	7.3	-524.4	-196.9	155.4	2.279e+04	4876.8	1099.1
5	ok 1485	0.08	1.0	8.79e-02	10.1	11.7	5.7	7.3	-517.4	-198.2	224.6	2.291e+04	4828.1	944.1
5	ok 1487	0.08	1.0	8.73e-02	10.1	11.7	5.7	7.3	-510.6	-200.1	224.7	2.290e+04	4757.7	746.6
5	ok 1488	0.08	1.0	8.66e-02	10.1	11.6	5.7	7.2	-505.4	-201.7	221.5	2.290e+04	4703.3	585.2
5	ok 1489	0.08	1.0	8.58e-02	10.1	11.5	5.7	7.1	-499.4	-201.0	219.9	2.276e+04	4634.9	464.5
5	ok 1492	0.08	1.0	8.50e-02	10.1	11.5	5.7	7.1	-493.8	-199.7	217.8	2.258e+04	4569.7	369.9
5	ok 1494	0.08	1.0	8.41e-02	10.1	11.4	5.7	7.0	-488.3	-197.9	215.5	2.239e+04	4508.7	295.5
5	ok 1495	0.08	1.0	8.32e-02	10.1	11.6	5.7	7.2	-470.0	-195.8	213.4	2.219e+04	4452.6	236.9
5	ok 1496	0.08	1.0	7.96e-02	10.1	11.2	5.7	6.8	-459.4	-190.1	182.0	2.105e+04	4210.4	209.9
5	ok 1499	0.08	1.0	7.88e-02	10.1	11.4	5.7	7.0	-455.8	-186.3	180.2	2.085e+04	4163.0	172.8
5	ok 1501	0.08	1.0	7.80e-02	10.1	11.3	5.7	6.9	-452.9	-181.8	177.9	2.066e+04	4119.1	140.4
5	ok 1502	0.08	1.0	7.72e-02	10.1	11.2	5.7	6.8	-450.2	-176.7	172.1	2.047e+04	4079.5	101.8
5	ok 1503	0.08	1.0	7.48e-02	10.1	11.3	5.7	6.9	-446.1	-174.2	168.7	2.022e+04	4028.7	78.6
5	ok 1506	0.08	1.0	7.37e-02	10.1	11.2	5.7	6.8	-445.4	-155.4	166.8	2.010e+04	4004.2	58.9

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
5	ok 1508	0.08	1.0	7.25e-02	10.1	11.0	5.7	6.6	-435.7	-143.0	177.0	1.978e+04	3942.9	218.1
5	ok 1509	0.08	1.0	7.14e-02	10.1	10.9	5.7	6.5	-433.6	-138.6	172.6	1.964e+04	3914.8	194.9
5	ok 1510	0.08	1.0	7.02e-02	10.1	10.7	5.7	6.3	-431.8	-134.1	168.1	1.950e+04	3889.1	172.3
5	ok 1513	0.08	1.0	6.97e-02	10.1	10.6	5.7	6.2	-430.6	-129.2	163.3	1.938e+04	3866.5	149.4
5	ok 1515	0.08	1.0	6.94e-02	10.1	10.4	5.7	6.0	-429.9	-124.0	157.7	1.925e+04	3847.5	125.3
5	ok 1516	0.08	1.0	6.91e-02	10.1	10.2	5.7	5.8	-429.6	-118.4	151.2	1.914e+04	3832.3	98.6
5	ok 1517	0.08	1.0	6.87e-02	10.1	10.2	5.7	5.8	-451.0	-125.3	-140.6	2.026e+04	4086.9	573.1
5	ok 1520	0.08	1.0	6.84e-02	10.1	10.2	5.7	5.8	-452.5	-116.8	-77.9	2.026e+04	4101.6	608.0
5	ok 1522	0.08	1.0	6.80e-02	10.1	10.3	5.7	5.9	-446.6	-114.4	-107.0	2.073e+04	4224.5	458.5
5	ok 1523	0.08	0.9	6.77e-02	10.1	10.1	5.7	5.7	-459.5	-116.8	-145.4	2.138e+04	4141.5	364.0
5	ok 1524	0.08	0.9	6.74e-02	10.1	10.1	5.7	5.7	-461.9	-108.5	-82.6	2.133e+04	4395.7	353.5
5	ok 1527	0.08	0.9	6.77e-02	10.1	10.1	5.7	5.7	-466.0	-104.9	-83.9	2.122e+04	4421.7	237.6
5	ok 1529	0.08	0.9	6.83e-02	10.1	10.1	5.7	5.7	-470.6	-100.6	-85.6	2.104e+04	4446.7	83.8
5	ok 1530	0.08	0.9	6.89e-02	10.1	10.1	5.7	5.7	-476.3	-99.8	-151.9	2.076e+04	4478.0	-204.0
5	ok 1531	0.08	0.9	6.94e-02	10.1	10.1	5.7	5.7	-481.1	-94.1	-151.6	2.041e+04	4503.5	-460.8
5	ok 1534	0.08	0.9	6.97e-02	10.1	10.1	5.7	5.7	-482.9	-86.6	-154.8	1.979e+04	4485.7	-777.0
5	ok 1536	0.08	0.9	6.95e-02	10.1	10.1	5.7	5.7	-480.8	-77.5	-157.3	1.891e+04	4420.5	-1160.5
5	ok 1537	0.08	0.9	6.84e-02	10.1	10.1	5.7	5.7	-472.4	-66.0	-157.8	1.769e+04	4276.2	-1597.3
5	ok 1538	0.08	0.9	6.57e-02	10.1	10.1	5.7	5.7	-453.5	-50.4	-154.7	1.604e+04	4000.8	-2050.9
5	ok 1541	0.08	0.8	6.05e-02	10.1	10.1	5.7	5.7	-416.8	-29.6	-146.7	1.385e+04	3510.1	-2702.7
5	ok 1543	0.08	0.8	5.13e-02	10.1	10.1	5.7	5.7	-345.6	51.2	-59.5	1.140e+04	2863.1	-2460.6
5	ok 1544	0.08	0.7	3.69e-02	10.1	10.1	5.7	5.7	-244.2	75.3	-99.5	7838.3	1417.5	-3671.7
5	ok 1545	0.08	0.5	2.21e-02	10.1	10.1	5.7	5.7	-84.1	145.2	-62.6	3622.8	-753.2	-3092.5
5	ok 1554	0.08	0.9	1.15e-03	10.4	10.1	6.5	5.7	365.3	168.1	55.5	1525.1	-5472.3	-356.6
5	ok 1610	0.08	0.8	4.09e-02	10.1	10.1	5.7	5.7	-38.6	-91.9	185.0	-137.6	-5367.8	247.7
5	ok 1612	0.08	0.4	3.88e-02	10.1	10.1	5.7	5.7	-90.4	-62.3	194.4	1125.9	-2401.3	374.4
5	ok 1613	0.08	0.2	3.92e-02	10.1	10.1	5.7	5.7	-179.9	-55.3	158.4	4019.0	151.1	432.0
5	ok 1614	0.08	0.4	4.83e-02	10.1	10.1	5.7	5.7	-269.2	-43.0	167.3	6303.4	1637.1	528.1
5	ok 1617	0.08	0.5	5.79e-02	10.1	10.1	5.7	5.7	-344.6	-36.1	187.1	8418.1	2585.1	558.4
5	ok 1619	0.08	0.6	6.61e-02	10.1	10.1	5.7	5.7	-400.1	-31.0	214.7	1.026e+04	3188.4	607.7
5	ok 1620	0.08	0.7	7.26e-02	10.1	10.1	5.7	5.7	-443.0	-40.0	231.4	1.191e+04	3577.7	552.9
5	ok 1621	0.08	0.7	7.68e-02	10.1	10.1	5.7	5.7	-466.4	-45.1	261.0	1.315e+04	3776.6	495.5
5	ok 1624	0.08	0.8	7.94e-02	10.1	10.1	5.7	5.7	-477.7	-49.9	273.5	1.408e+04	3837.4	417.6
5	ok 1626	0.08	0.8	8.08e-02	10.1	10.1	5.7	5.7	-480.2	-55.1	282.8	1.475e+04	3817.4	338.9
5	ok 1627	0.08	0.8	8.14e-02	10.1	10.1	5.7	5.7	-477.2	-59.7	290.2	1.520e+04	3750.0	264.5
5	ok 1628	0.08	0.8	8.16e-02	10.1	10.1	5.7	5.7	-471.6	-62.6	296.5	1.547e+04	3658.9	197.0
5	ok 1631	0.08	0.8	8.16e-02	10.1	10.1	5.7	5.7	-465.3	-63.5	301.5	1.560e+04	3560.3	136.7
5	ok 1633	0.08	0.8	8.14e-02	10.1	10.1	5.7	5.7	-498.8	-120.3	178.9	1.638e+04	3605.7	636.7
5	ok 1634	0.08	0.8	8.10e-02	10.1	10.1	5.7	5.7	-493.5	-120.0	195.4	1.637e+04	3534.2	591.5
5	ok 1635	0.08	0.8	8.04e-02	10.1	10.1	5.7	5.7	-488.6	-119.3	194.8	1.631e+04	3456.5	534.9
5	ok 1638	0.08	0.8	7.97e-02	10.1	10.1	5.7	5.7	-483.6	-118.4	193.0	1.621e+04	3386.8	481.3
5	ok 1640	0.08	0.8	7.89e-02	10.1	10.1	5.7	5.7	-477.8	-117.7	190.9	1.609e+04	3323.3	432.0
5	ok 1641	0.08	0.8	7.50e-02	10.1	10.1	5.7	5.7	-459.0	-116.9	189.5	1.596e+04	3267.0	387.5
5	ok 1642	0.08	0.8	7.44e-02	10.1	10.1	5.7	5.7	-456.0	-114.6	191.2	1.546e+04	3144.6	356.7
5	ok 1645	0.08	0.8	7.39e-02	10.1	10.1	5.7	5.7	-452.3	-112.1	190.4	1.533e+04	3104.7	318.1
5	ok 1647	0.08	0.8	7.33e-02	10.1	10.1	5.7	5.7	-449.7	-108.7	189.1	1.519e+04	3069.3	282.1
5	ok 1648	0.08	0.8	7.20e-02	10.1	10.1	5.7	5.7	-448.0	-99.2	186.8	1.506e+04	3038.3	247.5
5	ok 1649	0.08	0.7	7.12e-02	10.1	10.1	5.7	5.7	-445.0	-102.2	180.6	1.487e+04	2998.6	206.4
5	ok 1652	0.08	0.7	7.02e-02	10.1	10.1	5.7	5.7	-444.8	-91.7	161.6	1.480e+04	2983.3	167.9
5	ok 1654	0.08	0.7	6.90e-02	10.1	10.1	5.7	5.7	-427.6	-84.2	173.9	1.455e+04	2932.3	305.4
5	ok 1655	0.08	0.7	6.81e-02	10.1	10.1	5.7	5.7	-425.0	-82.2	178.4	1.447e+04	2913.3	279.4
5	ok 1656	0.08	0.7	6.75e-02	10.1	10.1	5.7	5.7	-422.9	-80.0	174.9	1.439e+04	2897.7	250.7
5	ok 1659	0.08	0.7	6.71e-02	10.1	10.1	5.7	5.7	-422.0	-77.4	171.3	1.431e+04	2885.6	223.4
5	ok 1661	0.08	0.7	6.69e-02	10.1	10.1	5.7	5.7	-422.2	-74.0	166.7	1.424e+04	2877.8	196.6
5	ok 1662	0.08	0.7	6.68e-02	10.1	10.1	5.7	5.7	-423.2	-70.1	160.4	1.416e+04	2873.6	169.2
5	ok 1663	0.08	0.7	6.68e-02	10.1	10.1	5.7	5.7	-424.5	-66.0	152.6	1.408e+04	2874.8	141.1
5	ok 1666	0.08	0.7	6.66e-02	10.1	10.1	5.7	5.7	-445.5	-76.5	-111.9	1.523e+04	3148.7	519.6
5	ok 1668	0.08	0.7	6.64e-02	10.1	10.1	5.7	5.7	-448.0	-73.1	-99.8	1.523e+04	3175.6	502.2
5	ok 1669	0.08	0.7	6.61e-02	10.1	10.1	5.7	5.7	-450.7	-71.3	-114.8	1.521e+04	3221.2	463.7
5	ok 1670	0.08	0.7	6.60e-02	10.1	10.1	5.7	5.7	-453.9	-67.9	-115.2	1.516e+04	3268.6	430.6
5	ok 1673	0.08	0.6	6.61e-02	10.1	10.1	5.7	5.7	-458.2	-63.3	-115.2	1.506e+04	3325.0	391.8
5	ok 1675	0.08	0.6	6.63e-02	10.1	10.1	5.7	5.7	-463.3	-57.0	-115.3	1.489e+04	3389.2	344.8
5	ok 1676	0.08	0.6	6.67e-02	10.1	10.1	5.7	5.7	-468.7	-48.7	-116.0	1.462e+04	3457.4	288.2
5	ok 1677	0.08	0.6	6.70e-02	10.1	10.1	5.7	5.7	-473.1	-38.4	-117.4	1.422e+04	3521.5	220.2
5	ok 1680	0.08	0.6	6.69e-02	10.1	10.1	5.7	5.7	-475.7	-26.5	-116.3	1.371e+04	3584.1	149.9
5	ok 1682	0.08	0.5	6.60e-02	10.1	10.1	5.7	5.7	-471.5	-12.8	-116.8	1.294e+04	3583.4	71.1
5	ok 1683	0.08	0.5	6.40e-02	10.1	10.1	5.7	5.7	-474.6	40.6	-49.5	1.262e+04	3654.3	-250.1
5	ok 1684	0.08	0.5	6.03e-02	10.1	10.1	5.7	5.7	-445.2	55.4	-51.5	1.112e+04	3392.3	-288.7
5	ok 1687	0.08	0.4	5.41e-02	10.1	10.1	5.7	5.7	-413.1	70.9	-53.8	9283.1	2886.1	-344.8
5	ok 1689	0.08	0.3	4.43e-02	10.1	10.1	5.7	5.7	-337.8	90.6	-46.9	7182.4	1966.0	-259.8
5	ok 1690	0.08	0.3	2.98e-02	10.1	10.1	5.7	5.7	-216.4	106.6	-19.7	4923.1	398.4	-89.8
5	ok 1691	0.08	0.3	1.93e-02	10.1	10.1	5.7	5.7	37.7	77.2	64.2	2547.2	-2056.9	-215.8
5	ok 1700	0.08	0.8	1.90e-02	10.1	10.1	5.7	5.7	296.7	59.2	39.2	1123.3	-5320.7	-198.2
5	ok 1756	0.08	0.7	4.35e-02	10.1	10.1	5.7	5.7	-112.4	-72.5	238.0	-796.1	-5423.6	14.9

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
5	ok 1758	0.08	0.4	4.19e-02	10.1	10.1	5.7	5.7	-129.5	-76.0	214.9	176.0	-2560.6	-568.9
5	ok 1759	0.08	0.1	4.17e-02	10.1	10.1	5.7	5.7	-173.3	-23.9	173.0	2086.0	-292.2	-923.1
5	ok 1760	0.08	0.2	4.52e-02	10.1	10.1	5.7	5.7	-244.4	-6.0	183.8	3419.4	969.7	-887.6
5	ok 1763	0.08	0.2	5.37e-02	10.1	10.1	5.7	5.7	-311.4	8.1	197.6	4693.9	1753.9	-787.2
5	ok 1765	0.08	0.3	6.11e-02	10.1	10.1	5.7	5.7	-366.9	15.0	221.8	5831.6	2215.6	-659.2
5	ok 1766	0.08	0.4	6.69e-02	10.1	10.1	5.7	5.7	-408.5	19.7	239.3	6801.4	2475.7	-513.7
5	ok 1767	0.08	0.5	7.14e-02	10.1	10.1	5.7	5.7	-435.8	37.9	257.3	7524.4	2579.3	-329.4
5	ok 1770	0.08	0.5	7.41e-02	10.1	10.1	5.7	5.7	-455.9	36.4	255.7	8214.3	2607.5	-228.2
5	ok 1772	0.08	0.5	7.56e-02	10.1	10.1	5.7	5.7	-460.3	31.2	271.4	8663.1	2579.4	-132.4
5	ok 1773	0.08	0.5	7.63e-02	10.1	10.1	5.7	5.7	-457.8	25.1	279.7	8970.2	2497.1	-55.3
5	ok 1774	0.08	0.5	7.68e-02	10.1	10.1	5.7	5.7	-453.2	19.8	288.0	9165.1	2403.8	1.3
5	ok 1777	0.08	0.5	7.71e-02	10.1	10.1	5.7	5.7	-448.4	15.9	295.0	9272.3	2309.9	38.9
5	ok 1779	0.08	0.5	7.71e-02	10.1	10.1	5.7	5.7	-444.1	13.3	300.2	9317.7	2224.5	60.8
5	ok 1780	0.08	0.5	7.71e-02	10.1	10.1	5.7	5.7	-440.7	12.4	303.4	9313.7	2150.9	70.0
5	ok 1781	0.08	0.5	7.69e-02	10.1	10.1	5.7	5.7	-442.6	13.5	286.6	9402.0	2104.0	18.0
5	ok 1784	0.08	0.5	7.61e-02	10.1	10.1	5.7	5.7	-438.9	13.3	294.2	9353.7	2055.1	7.3
5	ok 1786	0.08	0.5	7.19e-02	10.1	10.1	5.7	5.7	-389.2	0.7	280.9	9293.0	2001.4	-13.0
5	ok 1787	0.08	0.5	7.13e-02	10.1	10.1	5.7	5.7	-448.8	-29.2	178.5	1.007e+04	2144.6	475.3
5	ok 1788	0.08	0.5	7.09e-02	10.1	10.1	5.7	5.7	-443.4	-29.5	188.9	9770.0	2113.0	449.1
5	ok 1791	0.08	0.5	7.06e-02	10.1	10.1	5.7	5.7	-440.0	-28.9	189.3	9710.5	2032.2	412.8
5	ok 1793	0.08	0.5	7.22e-02	10.1	10.1	5.7	5.7	-429.7	-27.6	203.9	9455.4	1963.0	506.4
5	ok 1794	0.08	0.5	7.19e-02	10.1	10.1	5.7	5.7	-428.4	-25.1	199.8	9367.6	1943.2	466.0
5	ok 1795	0.08	0.5	6.93e-02	10.1	10.1	5.7	5.7	-429.9	-21.6	195.5	9329.9	1940.5	430.8
5	ok 1798	0.08	0.5	6.85e-02	10.1	10.1	5.7	5.7	-430.0	-22.4	188.8	9291.4	1933.0	393.6
5	ok 1800	0.08	0.5	6.77e-02	10.1	10.1	5.7	5.7	-428.4	-22.4	173.5	9304.0	1931.8	359.4
5	ok 1801	0.08	0.4	6.67e-02	10.1	10.1	5.7	5.7	-424.3	-23.5	180.1	9269.6	1917.6	335.0
5	ok 1802	0.08	0.4	6.60e-02	10.1	10.1	5.7	5.7	-421.5	-23.9	177.5	9238.0	1911.4	305.3
5	ok 1805	0.08	0.4	6.56e-02	10.1	10.1	5.7	5.7	-412.9	-21.3	174.2	9440.6	1952.0	274.4
5	ok 1807	0.08	0.4	6.55e-02	10.1	10.1	5.7	5.7	-414.1	-19.8	170.3	9406.6	1952.1	246.7
5	ok 1808	0.08	0.4	6.57e-02	10.1	10.1	5.7	5.7	-416.7	-17.0	164.2	9379.3	1960.7	226.1
5	ok 1809	0.08	0.4	6.60e-02	10.1	10.1	5.7	5.7	-420.3	-13.8	155.6	9324.3	1969.7	205.0
5	ok 1812	0.08	0.4	6.60e-02	10.1	10.1	5.7	5.7	-422.3	-12.1	133.0	9273.9	1981.9	177.7
5	ok 1814	0.08	0.4	6.57e-02	10.1	10.1	5.7	5.7	-440.5	-24.3	-106.9	9375.6	2039.8	492.2
5	ok 1815	0.08	0.4	6.52e-02	10.1	10.1	5.7	5.7	-441.3	-23.6	-107.4	9369.8	2076.4	489.7
5	ok 1816	0.08	0.4	6.50e-02	10.1	10.1	5.7	5.7	-443.5	-21.5	-106.0	9337.9	2123.6	496.6
5	ok 1819	0.08	0.4	6.51e-02	10.1	10.1	5.7	5.7	-447.7	-17.2	-103.9	9268.8	2183.4	510.6
5	ok 1821	0.08	0.4	6.55e-02	10.1	10.1	5.7	5.7	-453.2	-10.7	-101.8	9154.7	2253.2	535.4
5	ok 1822	0.08	0.4	6.60e-02	10.1	10.1	5.7	5.7	-459.6	-1.8	-99.9	8972.1	2331.5	575.0
5	ok 1823	0.08	0.4	6.66e-02	10.1	10.1	5.7	5.7	-465.2	9.3	-99.3	8698.8	2413.7	629.3
5	ok 1826	0.08	0.3	6.64e-02	10.1	10.1	5.7	5.7	-466.0	21.2	-100.0	8312.1	2482.1	697.8
5	ok 1828	0.08	0.3	6.50e-02	10.1	10.1	5.7	5.7	-460.0	34.4	-97.0	7839.4	2527.0	783.4
5	ok 1829	0.08	0.3	6.21e-02	10.1	10.1	5.7	5.7	-442.6	47.2	-92.5	7153.8	2474.5	904.1
5	ok 1830	0.08	0.3	5.76e-02	10.1	10.1	5.7	5.7	-443.0	58.5	-22.5	6377.4	2329.9	944.6
5	ok 1833	0.08	0.3	5.09e-02	10.1	10.1	5.7	5.7	-391.9	70.4	-32.9	5259.9	1917.8	1111.5
5	ok 1835	0.08	0.3	4.11e-02	10.1	10.1	5.7	5.7	-281.1	85.2	-52.4	4013.5	1150.0	1346.5
…														
5	ok 4235	0.09	0.8	0.2	11.9	14.0	7.5	9.6	-983.3	243.2	-111.6	-2967.6	-569.9	211.8
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N z**	**N o**	**N zo**	**M z**	**M o**	**M zo**
Min									-1077.76	-557.72	-639.55	-1.051e+04	-5472.31	-5245.59
Max		0.12	0.99	0.19	26.69	25.99	28.75	24.53	1291.52	1153.51	618.31	2.910e+04	5854.21	4054.22

L’armatura della parete laterale è costituita da una maglia base di 1+1ϕ16/20 vert. e 1+1ϕ12/20 oriz., a cui si aggiungono ferri alternati ove necessario.
Agli estremi della parete si predispongono dei tratti lunghi 100 cm con armatura infittita, armati con 1ϕ16/10 verticali e 1+1ϕ12/10 oriz.

2.14.4 STATI LIMITE D' ESERCIZIO

TABELLA STATI LIMITE D' ESERCIZIO

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1401	0.32	0.72	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1402	0.14	0.57	0.0	97,100,0	0.0	0.0	0.0	0,0,0
1403	0.22	0.67	0.0	97,100,0	0.0	0.0	0.0	0,0,0
1404	0.30	0.72	0.0	100,100,0	0.18	0.0	0.0	100,0,0
1405	0.37	0.78	0.0	100,100,0	0.23	0.0	0.0	100,0,0
1406	0.15	0.45	0.0	97,97,0	0.07	0.0	0.0	97,0,0
1407	0.49	0.65	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1408	0.42	0.81	0.0	100,100,0	0.24	0.0	0.0	100,0,0
1409	0.45	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1410	0.47	0.80	0.0	100,100,0	0.28	0.0	0.0	100,0,0
1411	0.48	0.80	0.0	100,100,0	0.28	0.0	0.0	100,0,0
1412	0.20	0.28	0.0	100,95,0	0.04	0.0	0.0	95,0,0
1413	0.49	0.66	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1414	0.49	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1415	0.49	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1416	0.50	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1417	0.50	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1418	0.22	0.17	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1419	0.44	0.56	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1420	0.50	0.79	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1421	0.50	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1422	0.50	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1423	0.50	0.81	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1424	0.23	0.17	0.0	99,99,0	0.0	0.0	0.0	0,0,0
1425	0.42	0.48	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1426	0.49	0.81	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1427	0.49	0.81	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1428	0.49	0.79	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1429	0.49	0.81	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1430	0.24	0.22	0.0	99,97,0	0.0	0.0	0.0	0,0,0
1431	0.35	0.38	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1432	0.48	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1433	0.48	0.80	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1434	0.48	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1435	0.48	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1436	0.29	0.29	0.0	99,97,0	0.0	0.0	0.0	0,0,0
1437	0.36	0.31	0.0	100,94,0	0.0	0.0	0.0	0,0,0
1438	0.47	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1439	0.47	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1440	0.47	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1441	0.47	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1442	0.28	0.27	0.0	99,97,0	0.0	0.0	0.0	0,0,0
1443	0.31	0.25	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1444	0.47	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1445	0.47	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1446	0.47	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1447	0.46	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1448	0.32	0.33	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1449	0.34	0.30	0.0	100,94,0	0.0	0.0	0.0	0,0,0
1450	0.46	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1451	0.46	0.79	0.0	100,100,0	0.26	0.0	0.0	100,0,0
1452	0.46	0.79	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1453	0.46	0.79	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1454	0.30	0.29	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1455	0.30	0.27	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1456	0.46	0.79	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1457	0.46	0.80	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1458	0.45	0.80	0.0	100,100,0	0.28	0.0	0.0	100,0,0
1459	0.45	0.80	0.0	100,100,0	0.28	0.0	0.0	100,0,0
1460	0.32	0.33	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1461	0.29	0.26	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1462	0.44	0.80	0.0	100,100,0	0.28	0.0	0.0	100,0,0
1463	0.43	0.81	0.0	100,100,0	0.27	0.0	0.0	100,0,0
1464	0.42	0.81	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1465	0.39	0.77	0.0	100,100,0	0.23	0.0	0.0	100,0,0
1466	0.27	0.26	0.0	96,96,0	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1467	0.15	0.20	0.0	98,98,0	0.0	0.0	0.0	0,0,0
1468	0.35	0.77	0.0	100,100,0	0.21	0.0	0.0	100,0,0
1469	0.30	0.70	0.0	100,100,0	0.17	0.0	0.0	100,0,0
1470	0.23	0.58	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1471	0.14	0.72	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1472	0.10	0.36	0.0	96,96,0	0.0	0.0	0.0	0,0,0
1536	0.08	0.32	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1537	0.16	0.59	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1538	0.15	0.45	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1539	0.21	0.54	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1540	0.26	0.61	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1541	0.14	0.44	0.0	100,97,0	0.08	0.0	0.0	97,0,0
1542	0.31	0.36	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1543	0.31	0.68	0.0	100,100,0	0.16	0.0	0.0	100,0,0
1544	0.34	0.74	0.0	100,100,0	0.21	0.0	0.0	100,0,0
1545	0.37	0.76	0.0	100,100,0	0.21	0.0	0.0	100,0,0
1546	0.39	0.77	0.0	100,100,0	0.21	0.0	0.0	100,0,0
1547	0.21	0.29	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1548	0.32	0.33	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1549	0.40	0.78	0.0	100,100,0	0.21	0.0	0.0	100,0,0
1550	0.42	0.79	0.0	100,100,0	0.22	0.0	0.0	100,0,0
1551	0.42	0.79	0.0	100,100,0	0.24	0.0	0.0	100,0,0
1552	0.43	0.80	0.0	100,100,0	0.24	0.0	0.0	100,0,0
1553	0.22	0.17	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1554	0.30	0.23	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1555	0.43	0.80	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1556	0.43	0.80	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1557	0.43	0.81	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1558	0.43	0.81	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1559	0.22	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1560	0.27	0.21	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1561	0.43	0.81	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1562	0.43	0.80	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1563	0.43	0.81	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1564	0.43	0.81	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1565	0.21	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1566	0.25	0.19	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1567	0.43	0.81	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1568	0.43	0.81	0.0	100,100,0	0.25	0.0	0.0	100,0,0
1569	0.42	0.79	0.0	100,100,0	0.23	0.0	0.0	100,0,0
1570	0.42	0.79	0.0	100,100,0	0.23	0.0	0.0	100,0,0
1571	0.22	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1572	0.23	0.18	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1573	0.42	0.79	0.0	100,100,0	0.23	0.0	0.0	100,0,0
1574	0.42	0.79	0.0	100,100,0	0.23	0.0	0.0	100,0,0
1575	0.42	0.79	0.0	100,100,0	0.24	0.0	0.0	100,0,0
1576	0.42	0.80	0.0	100,100,0	0.24	0.0	0.0	100,0,0
1577	0.21	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1578	0.22	0.17	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1579	0.42	0.79	0.0	100,100,0	0.24	0.0	0.0	100,0,0
1580	0.41	0.79	0.0	100,100,0	0.24	0.0	0.0	100,0,0
1581	0.41	0.78	0.0	100,100,0	0.23	0.0	0.0	100,0,0
1582	0.41	0.77	0.0	100,100,0	0.23	0.0	0.0	100,0,0
1583	0.22	0.17	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1584	0.22	0.17	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1585	0.41	0.75	0.0	100,100,0	0.22	0.0	0.0	100,0,0
1586	0.40	0.74	0.0	100,100,0	0.22	0.0	0.0	100,0,0
1587	0.40	0.73	0.0	100,100,0	0.22	0.0	0.0	100,0,0
1588	0.39	0.72	0.0	100,100,0	0.21	0.0	0.0	100,0,0
1589	0.21	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1590	0.22	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1591	0.39	0.70	0.0	100,100,0	0.21	0.0	0.0	100,0,0
1592	0.38	0.68	0.0	100,100,0	0.20	0.0	0.0	100,0,0
1593	0.37	0.66	0.0	100,100,0	0.20	0.0	0.0	100,0,0
1594	0.36	0.64	0.0	100,100,0	0.19	0.0	0.0	100,0,0
1595	0.20	0.15	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1596	0.20	0.15	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1597	0.35	0.62	0.0	100,100,0	0.19	0.0	0.0	100,0,0
1598	0.33	0.61	0.0	100,100,0	0.17	0.0	0.0	100,0,0
1599	0.31	0.61	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1600	0.28	0.59	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1601	0.16	0.13	0.0	96,96,0	0.0	0.0	0.0	0,0,0
1602	0.14	0.11	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1603	0.24	0.57	0.0	100,100,0	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1604	0.20	0.53	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1605	0.14	0.44	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1606	0.13	0.72	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1607	0.06	0.37	0.0	96,96,0	0.0	0.0	0.0	0,0,0
1671	0.03	0.09	0.0	95,97,0	0.0	0.0	0.0	0,0,0
1672	0.15	0.59	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1673	0.07	0.31	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1674	0.11	0.31	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1675	0.15	0.38	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1676	0.13	0.24	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1677	0.22	0.27	0.0	97,97,0	0.0	0.0	0.0	0,0,0
1678	0.19	0.44	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1679	0.22	0.48	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1680	0.24	0.50	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1681	0.26	0.51	0.0	100,98,0	0.0	0.0	0.0	0,0,0
1682	0.18	0.23	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1683	0.23	0.25	0.0	100,95,0	0.0	0.0	0.0	0,0,0
1684	0.27	0.52	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1685	0.29	0.53	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1686	0.29	0.54	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1687	0.30	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1688	0.20	0.15	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1689	0.24	0.19	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1690	0.30	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1691	0.30	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1692	0.31	0.55	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1693	0.31	0.54	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1694	0.19	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1695	0.21	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1696	0.31	0.54	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1697	0.30	0.53	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1698	0.30	0.53	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1699	0.30	0.53	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1700	0.19	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1701	0.20	0.16	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1702	0.30	0.52	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1703	0.30	0.52	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1704	0.30	0.51	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1705	0.30	0.50	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1706	0.18	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1707	0.19	0.15	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1708	0.30	0.49	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1709	0.29	0.49	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1710	0.29	0.48	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1711	0.29	0.47	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1712	0.19	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1713	0.19	0.15	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1714	0.29	0.47	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1715	0.29	0.46	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1716	0.29	0.45	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1717	0.28	0.44	0.0	100,97,0	0.0	0.0	0.0	0,0,0
1718	0.19	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1719	0.19	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1720	0.28	0.42	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1721	0.28	0.41	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1722	0.28	0.40	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1723	0.27	0.39	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1724	0.18	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1725	0.19	0.14	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1726	0.27	0.37	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1727	0.26	0.36	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1728	0.25	0.34	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1729	0.24	0.37	0.0	100,100,0	0.0	0.0	0.0	0,0,0
1730	0.17	0.13	0.0	100,100,0	0.0	0.0	0.0	0,0,0
…								
3699	0.10	0.15	0.0	92,100,0	0.0	0.0	0.0	0,0,0
	rRfck	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
Max	0.50	0.81	0.0		0.28	0.0	0.0	

2.15 SOLETTA FONDO MBR

La soletta di fondo delle vasche MBR ha spessore 30 cm, è appoggiata sui muri longitudinali e sostenuta dai muri trasversali che separano le vasche stesse.

2.15.1 MODELLAZIONE STRUTTURA: NODI

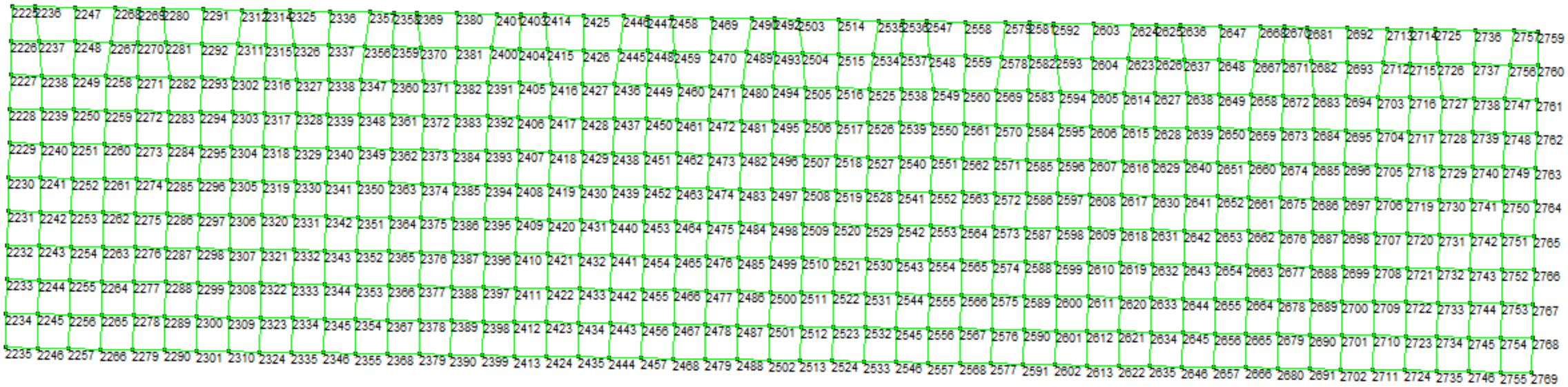
TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2225	1125.0	660.0	560.0	2226	1217.5	660.0	560.0	2227	1310.0	660.0	560.0
2228	1402.5	660.0	560.0	2229	1495.0	660.0	560.0	2230	1587.5	660.0	560.0
2231	1680.0	660.0	560.0	2232	1772.5	660.0	560.0	2233	1865.0	660.0	560.0
2234	1957.5	660.0	560.0	2235	2050.0	660.0	560.0	2236	1125.0	720.0	560.0
2237	1217.5	730.0	560.0	2238	1310.0	740.0	560.0	2239	1402.5	740.0	560.0
2240	1495.0	740.0	560.0	2241	1587.5	740.0	560.0	2242	1680.0	740.0	560.0
2243	1772.5	740.0	560.0	2244	1865.0	740.0	560.0	2245	1957.5	740.0	560.0
2246	2050.0	740.0	560.0	2247	1125.0	820.0	560.0	2248	1217.5	820.0	560.0
2249	1310.0	820.0	560.0	2250	1402.5	820.0	560.0	2251	1495.0	820.0	560.0
2252	1587.5	820.0	560.0	2253	1680.0	820.0	560.0	2254	1772.5	820.0	560.0
2255	1865.0	820.0	560.0	2256	1957.5	820.0	560.0	2257	2050.0	820.0	560.0
2258	1310.0	900.0	560.0	2259	1402.5	900.0	560.0	2260	1495.0	900.0	560.0
2261	1587.5	900.0	560.0	2262	1680.0	900.0	560.0	2263	1772.5	900.0	560.0
2264	1865.0	900.0	560.0	2265	1957.5	900.0	560.0	2266	2050.0	900.0	560.0
2267	1217.5	910.0	560.0	2268	1125.0	920.0	560.0	2269	1125.0	980.0	560.0
2270	1217.5	980.0	560.0	2271	1310.0	980.0	560.0	2272	1402.5	980.0	560.0
2273	1495.0	980.0	560.0	2274	1587.5	980.0	560.0	2275	1680.0	980.0	560.0
2276	1772.5	980.0	560.0	2277	1865.0	980.0	560.0	2278	1957.5	980.0	560.0
2279	2050.0	980.0	560.0	2280	1125.0	1040.0	560.0	2281	1217.5	1050.0	560.0
2282	1310.0	1060.0	560.0	2283	1402.5	1060.0	560.0	2284	1495.0	1060.0	560.0
2285	1587.5	1060.0	560.0	2286	1680.0	1060.0	560.0	2287	1772.5	1060.0	560.0
2288	1865.0	1060.0	560.0	2289	1957.5	1060.0	560.0	2290	2050.0	1060.0	560.0
2291	1125.0	1140.0	560.0	2292	1217.5	1140.0	560.0	2293	1310.0	1140.0	560.0
2294	1402.5	1140.0	560.0	2295	1495.0	1140.0	560.0	2296	1587.5	1140.0	560.0
2297	1680.0	1140.0	560.0	2298	1772.5	1140.0	560.0	2299	1865.0	1140.0	560.0
2300	1957.5	1140.0	560.0	2301	2050.0	1140.0	560.0	2302	1310.0	1220.0	560.0
2303	1402.5	1220.0	560.0	2304	1495.0	1220.0	560.0	2305	1587.5	1220.0	560.0
2306	1680.0	1220.0	560.0	2307	1772.5	1220.0	560.0	2308	1865.0	1220.0	560.0
2309	1957.5	1220.0	560.0	2310	2050.0	1220.0	560.0	2311	1217.5	1230.0	560.0
2312	1125.0	1240.0	560.0	2314	1125.0	1300.0	560.0	2315	1217.5	1300.0	560.0
2316	1310.0	1300.0	560.0	2317	1402.5	1300.0	560.0	2318	1495.0	1300.0	560.0
2319	1587.5	1300.0	560.0	2320	1680.0	1300.0	560.0	2321	1772.5	1300.0	560.0
2322	1865.0	1300.0	560.0	2323	1957.5	1300.0	560.0	2324	2050.0	1300.0	560.0
2325	1125.0	1360.0	560.0	2326	1217.5	1370.0	560.0	2327	1310.0	1380.0	560.0
2328	1402.5	1380.0	560.0	2329	1495.0	1380.0	560.0	2330	1587.5	1380.0	560.0
2331	1680.0	1380.0	560.0	2332	1772.5	1380.0	560.0	2333	1865.0	1380.0	560.0
2334	1957.5	1380.0	560.0	2335	2050.0	1380.0	560.0	2336	1125.0	1460.0	560.0
2337	1217.5	1460.0	560.0	2338	1310.0	1460.0	560.0	2339	1402.5	1460.0	560.0
2340	1495.0	1460.0	560.0	2341	1587.5	1460.0	560.0	2342	1680.0	1460.0	560.0
2343	1772.5	1460.0	560.0	2344	1865.0	1460.0	560.0	2345	1957.5	1460.0	560.0
2346	2050.0	1460.0	560.0	2347	1310.0	1540.0	560.0	2348	1402.5	1540.0	560.0
2349	1495.0	1540.0	560.0	2350	1587.5	1540.0	560.0	2351	1680.0	1540.0	560.0
2352	1772.5	1540.0	560.0	2353	1865.0	1540.0	560.0	2354	1957.5	1540.0	560.0
2355	2050.0	1540.0	560.0	2356	1217.5	1550.0	560.0	2357	1125.0	1560.0	560.0
2358	1125.0	1620.0	560.0	2359	1217.5	1620.0	560.0	2360	1310.0	1620.0	560.0
2361	1402.5	1620.0	560.0	2362	1495.0	1620.0	560.0	2363	1587.5	1620.0	560.0
2364	1680.0	1620.0	560.0	2365	1772.5	1620.0	560.0	2366	1865.0	1620.0	560.0
2367	1957.5	1620.0	560.0	2368	2050.0	1620.0	560.0	2369	1125.0	1680.0	560.0
2370	1217.5	1690.0	560.0	2371	1310.0	1700.0	560.0	2372	1402.5	1700.0	560.0
2373	1495.0	1700.0	560.0	2374	1587.5	1700.0	560.0	2375	1680.0	1700.0	560.0
2376	1772.5	1700.0	560.0	2377	1865.0	1700.0	560.0	2378	1957.5	1700.0	560.0
2379	2050.0	1700.0	560.0	2380	1125.0	1780.0	560.0	2381	1217.5	1780.0	560.0
2382	1310.0	1780.0	560.0	2383	1402.5	1780.0	560.0	2384	1495.0	1780.0	560.0
2385	1587.5	1780.0	560.0	2386	1680.0	1780.0	560.0	2387	1772.5	1780.0	560.0

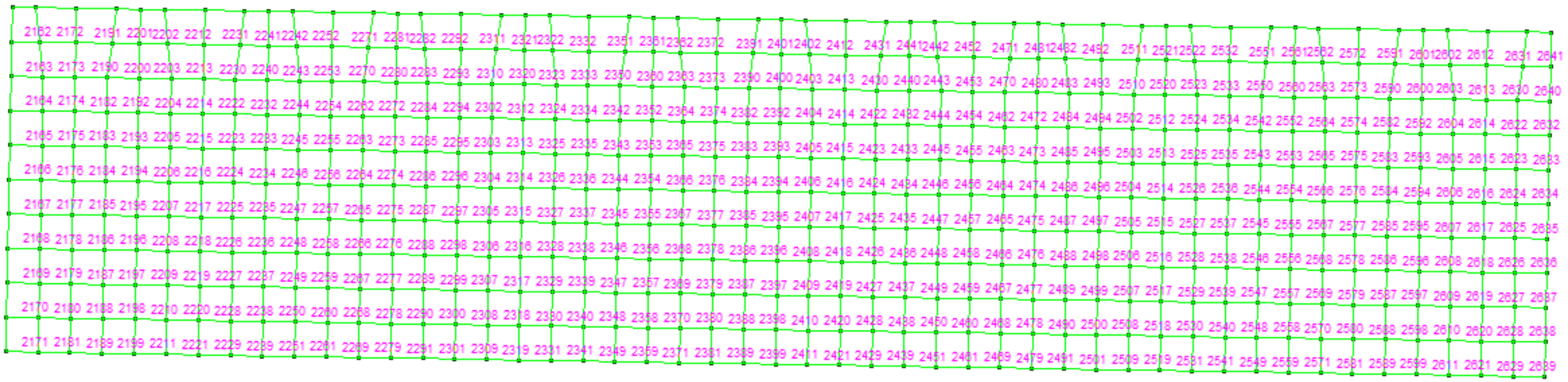
Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2388	1865.0	1780.0	560.0	2389	1957.5	1780.0	560.0	2390	2050.0	1780.0	560.0
2391	1310.0	1860.0	560.0	2392	1402.5	1860.0	560.0	2393	1495.0	1860.0	560.0
2394	1587.5	1860.0	560.0	2395	1680.0	1860.0	560.0	2396	1772.5	1860.0	560.0
2397	1865.0	1860.0	560.0	2398	1957.5	1860.0	560.0	2399	2050.0	1860.0	560.0
2400	1217.5	1870.0	560.0	2401	1125.0	1880.0	560.0	2403	1125.0	1940.0	560.0
2404	1217.5	1940.0	560.0	2405	1310.0	1940.0	560.0	2406	1402.5	1940.0	560.0
2407	1495.0	1940.0	560.0	2408	1587.5	1940.0	560.0	2409	1680.0	1940.0	560.0
2410	1772.5	1940.0	560.0	2411	1865.0	1940.0	560.0	2412	1957.5	1940.0	560.0
2413	2050.0	1940.0	560.0	2414	1125.0	2000.0	560.0	2415	1217.5	2010.0	560.0
2416	1310.0	2020.0	560.0	2417	1402.5	2020.0	560.0	2418	1495.0	2020.0	560.0
2419	1587.5	2020.0	560.0	2420	1680.0	2020.0	560.0	2421	1772.5	2020.0	560.0
2422	1865.0	2020.0	560.0	2423	1957.5	2020.0	560.0	2424	2050.0	2020.0	560.0
2425	1125.0	2100.0	560.0	2426	1217.5	2100.0	560.0	2427	1310.0	2100.0	560.0
2428	1402.5	2100.0	560.0	2429	1495.0	2100.0	560.0	2430	1587.5	2100.0	560.0
2431	1680.0	2100.0	560.0	2432	1772.5	2100.0	560.0	2433	1865.0	2100.0	560.0
2434	1957.5	2100.0	560.0	2435	2050.0	2100.0	560.0	2436	1310.0	2180.0	560.0
2437	1402.5	2180.0	560.0	2438	1495.0	2180.0	560.0	2439	1587.5	2180.0	560.0
2440	1680.0	2180.0	560.0	2441	1772.5	2180.0	560.0	2442	1865.0	2180.0	560.0
2443	1957.5	2180.0	560.0	2444	2050.0	2180.0	560.0	2445	1217.5	2190.0	560.0
2446	1125.0	2200.0	560.0	2447	1125.0	2260.0	560.0	2448	1217.5	2260.0	560.0
2449	1310.0	2260.0	560.0	2450	1402.5	2260.0	560.0	2451	1495.0	2260.0	560.0
2452	1587.5	2260.0	560.0	2453	1680.0	2260.0	560.0	2454	1772.5	2260.0	560.0
2455	1865.0	2260.0	560.0	2456	1957.5	2260.0	560.0	2457	2050.0	2260.0	560.0
2458	1125.0	2320.0	560.0	2459	1217.5	2330.0	560.0	2460	1310.0	2340.0	560.0
2461	1402.5	2340.0	560.0	2462	1495.0	2340.0	560.0	2463	1587.5	2340.0	560.0
2464	1680.0	2340.0	560.0	2465	1772.5	2340.0	560.0	2466	1865.0	2340.0	560.0
2467	1957.5	2340.0	560.0	2468	2050.0	2340.0	560.0	2469	1125.0	2420.0	560.0
2470	1217.5	2420.0	560.0	2471	1310.0	2420.0	560.0	2472	1402.5	2420.0	560.0
2473	1495.0	2420.0	560.0	2474	1587.5	2420.0	560.0	2475	1680.0	2420.0	560.0
2476	1772.5	2420.0	560.0	2477	1865.0	2420.0	560.0	2478	1957.5	2420.0	560.0
2479	2050.0	2420.0	560.0	2480	1310.0	2500.0	560.0	2481	1402.5	2500.0	560.0
2482	1495.0	2500.0	560.0	2483	1587.5	2500.0	560.0	2484	1680.0	2500.0	560.0
2485	1772.5	2500.0	560.0	2486	1865.0	2500.0	560.0	2487	1957.5	2500.0	560.0
2488	2050.0	2500.0	560.0	2489	1217.5	2510.0	560.0	2490	1125.0	2520.0	560.0
2492	1125.0	2580.0	560.0	2493	1217.5	2580.0	560.0	2494	1310.0	2580.0	560.0
2495	1402.5	2580.0	560.0	2496	1495.0	2580.0	560.0	2497	1587.5	2580.0	560.0
2498	1680.0	2580.0	560.0	2499	1772.5	2580.0	560.0	2500	1865.0	2580.0	560.0
2501	1957.5	2580.0	560.0	2502	2050.0	2580.0	560.0	2503	1125.0	2640.0	560.0
2504	1217.5	2650.0	560.0	2505	1310.0	2660.0	560.0	2506	1402.5	2660.0	560.0
2507	1495.0	2660.0	560.0	2508	1587.5	2660.0	560.0	2509	1680.0	2660.0	560.0
2510	1772.5	2660.0	560.0	2511	1865.0	2660.0	560.0	2512	1957.5	2660.0	560.0
2513	2050.0	2660.0	560.0	2514	1125.0	2740.0	560.0	2515	1217.5	2740.0	560.0
2516	1310.0	2740.0	560.0	2517	1402.5	2740.0	560.0	2518	1495.0	2740.0	560.0
2519	1587.5	2740.0	560.0	2520	1680.0	2740.0	560.0	2521	1772.5	2740.0	560.0
2522	1865.0	2740.0	560.0	2523	1957.5	2740.0	560.0	2524	2050.0	2740.0	560.0
2525	1310.0	2820.0	560.0	2526	1402.5	2820.0	560.0	2527	1495.0	2820.0	560.0
2528	1587.5	2820.0	560.0	2529	1680.0	2820.0	560.0	2530	1772.5	2820.0	560.0
2531	1865.0	2820.0	560.0	2532	1957.5	2820.0	560.0	2533	2050.0	2820.0	560.0
2534	1217.5	2830.0	560.0	2535	1125.0	2840.0	560.0	2536	1125.0	2900.0	560.0
2537	1217.5	2900.0	560.0	2538	1310.0	2900.0	560.0	2539	1402.5	2900.0	560.0
2540	1495.0	2900.0	560.0	2541	1587.5	2900.0	560.0	2542	1680.0	2900.0	560.0
2543	1772.5	2900.0	560.0	2544	1865.0	2900.0	560.0	2545	1957.5	2900.0	560.0
2546	2050.0	2900.0	560.0	2547	1125.0	2960.0	560.0	2548	1217.5	2970.0	560.0
2549	1310.0	2980.0	560.0	2550	1402.5	2980.0	560.0	2551	1495.0	2980.0	560.0
2552	1587.5	2980.0	560.0	2553	1680.0	2980.0	560.0	2554	1772.5	2980.0	560.0
2555	1865.0	2980.0	560.0	2556	1957.5	2980.0	560.0	2557	2050.0	2980.0	560.0
2558	1125.0	3060.0	560.0	2559	1217.5	3060.0	560.0	2560	1310.0	3060.0	560.0
2561	1402.5	3060.0	560.0	2562	1495.0	3060.0	560.0	2563	1587.5	3060.0	560.0
2564	1680.0	3060.0	560.0	2565	1772.5	3060.0	560.0	2566	1865.0	3060.0	560.0
2567	1957.5	3060.0	560.0	2568	2050.0	3060.0	560.0	2569	1310.0	3140.0	560.0
2570	1402.5	3140.0	560.0	2571	1495.0	3140.0	560.0	2572	1587.5	3140.0	560.0
2573	1680.0	3140.0	560.0	2574	1772.5	3140.0	560.0	2575	1865.0	3140.0	560.0
2576	1957.5	3140.0	560.0	2577	2050.0	3140.0	560.0	2578	1217.5	3150.0	560.0
2579	1125.0	3160.0	560.0	2581	1125.0	3220.0	560.0	2582	1217.5	3220.0	560.0
2583	1310.0	3220.0	560.0	2584	1402.5	3220.0	560.0	2585	1495.0	3220.0	560.0
2586	1587.5	3220.0	560.0	2587	1680.0	3220.0	560.0	2588	1772.5	3220.0	560.0
2589	1865.0	3220.0	560.0	2590	1957.5	3220.0	560.0	2591	2050.0	3220.0	560.0
2592	1125.0	3280.0	560.0	2593	1217.5	3290.0	560.0	2594	1310.0	3300.0	560.0
2595	1402.5	3300.0	560.0	2596	1495.0	3300.0	560.0	2597	1587.5	3300.0	560.0
2598	1680.0	3300.0	560.0	2599	1772.5	3300.0	560.0	2600	1865.0	3300.0	560.0
2601	1957.5	3300.0	560.0	2602	2050.0	3300.0	560.0	2603	1125.0	3380.0	560.0
2604	1217.5	3380.0	560.0	2605	1310.0	3380.0	560.0	2606	1402.5	3380.0	560.0
2607	1495.0	3380.0	560.0	2608	1587.5	3380.0	560.0	2609	1680.0	3380.0	560.0
2610	1772.5	3380.0	560.0	2611	1865.0	3380.0	560.0	2612	1957.5	3380.0	560.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2613	2050.0	3380.0	560.0	2614	1310.0	3460.0	560.0	2615	1402.5	3460.0	560.0
2616	1495.0	3460.0	560.0	2617	1587.5	3460.0	560.0	2618	1680.0	3460.0	560.0
2619	1772.5	3460.0	560.0	2620	1865.0	3460.0	560.0	2621	1957.5	3460.0	560.0
2622	2050.0	3460.0	560.0	2623	1217.5	3470.0	560.0	2624	1125.0	3480.0	560.0
2625	1125.0	3540.0	560.0	2626	1217.5	3540.0	560.0	2627	1310.0	3540.0	560.0
2628	1402.5	3540.0	560.0	2629	1495.0	3540.0	560.0	2630	1587.5	3540.0	560.0
2631	1680.0	3540.0	560.0	2632	1772.5	3540.0	560.0	2633	1865.0	3540.0	560.0
2634	1957.5	3540.0	560.0	2635	2050.0	3540.0	560.0	2636	1125.0	3600.0	560.0
2637	1217.5	3610.0	560.0	2638	1310.0	3620.0	560.0	2639	1402.5	3620.0	560.0
2640	1495.0	3620.0	560.0	2641	1587.5	3620.0	560.0	2642	1680.0	3620.0	560.0
2643	1772.5	3620.0	560.0	2644	1865.0	3620.0	560.0	2645	1957.5	3620.0	560.0
2646	2050.0	3620.0	560.0	2647	1125.0	3700.0	560.0	2648	1217.5	3700.0	560.0
2649	1310.0	3700.0	560.0	2650	1402.5	3700.0	560.0	2651	1495.0	3700.0	560.0
2652	1587.5	3700.0	560.0	2653	1680.0	3700.0	560.0	2654	1772.5	3700.0	560.0
2655	1865.0	3700.0	560.0	2656	1957.5	3700.0	560.0	2657	2050.0	3700.0	560.0
2658	1310.0	3780.0	560.0	2659	1402.5	3780.0	560.0	2660	1495.0	3780.0	560.0
2661	1587.5	3780.0	560.0	2662	1680.0	3780.0	560.0	2663	1772.5	3780.0	560.0
2664	1865.0	3780.0	560.0	2665	1957.5	3780.0	560.0	2666	2050.0	3780.0	560.0
2667	1217.5	3790.0	560.0	2668	1125.0	3800.0	560.0	2670	1125.0	3860.0	560.0
2671	1217.5	3860.0	560.0	2672	1310.0	3860.0	560.0	2673	1402.5	3860.0	560.0
2674	1495.0	3860.0	560.0	2675	1587.5	3860.0	560.0	2676	1680.0	3860.0	560.0
2677	1772.5	3860.0	560.0	2678	1865.0	3860.0	560.0	2679	1957.5	3860.0	560.0
2680	2050.0	3860.0	560.0	2681	1125.0	3920.0	560.0	2682	1217.5	3930.0	560.0
2683	1310.0	3940.0	560.0	2684	1402.5	3940.0	560.0	2685	1495.0	3940.0	560.0
2686	1587.5	3940.0	560.0	2687	1680.0	3940.0	560.0	2688	1772.5	3940.0	560.0
2689	1865.0	3940.0	560.0	2690	1957.5	3940.0	560.0	2691	2050.0	3940.0	560.0
2692	1125.0	4020.0	560.0	2693	1217.5	4020.0	560.0	2694	1310.0	4020.0	560.0
2695	1402.5	4020.0	560.0	2696	1495.0	4020.0	560.0	2697	1587.5	4020.0	560.0
2698	1680.0	4020.0	560.0	2699	1772.5	4020.0	560.0	2700	1865.0	4020.0	560.0
2701	1957.5	4020.0	560.0	2702	2050.0	4020.0	560.0	2703	1310.0	4100.0	560.0
2704	1402.5	4100.0	560.0	2705	1495.0	4100.0	560.0	2706	1587.5	4100.0	560.0
2707	1680.0	4100.0	560.0	2708	1772.5	4100.0	560.0	2709	1865.0	4100.0	560.0
2710	1957.5	4100.0	560.0	2711	2050.0	4100.0	560.0	2712	1217.5	4110.0	560.0
2713	1125.0	4120.0	560.0	2714	1125.0	4180.0	560.0	2715	1217.5	4180.0	560.0
2716	1310.0	4180.0	560.0	2717	1402.5	4180.0	560.0	2718	1495.0	4180.0	560.0
2719	1587.5	4180.0	560.0	2720	1680.0	4180.0	560.0	2721	1772.5	4180.0	560.0
2722	1865.0	4180.0	560.0	2723	1957.5	4180.0	560.0	2724	2050.0	4180.0	560.0
2725	1125.0	4240.0	560.0	2726	1217.5	4250.0	560.0	2727	1310.0	4260.0	560.0
2728	1402.5	4260.0	560.0	2729	1495.0	4260.0	560.0	2730	1587.5	4260.0	560.0
2731	1680.0	4260.0	560.0	2732	1772.5	4260.0	560.0	2733	1865.0	4260.0	560.0
2734	1957.5	4260.0	560.0	2735	2050.0	4260.0	560.0	2736	1125.0	4340.0	560.0
2737	1217.5	4340.0	560.0	2738	1310.0	4340.0	560.0	2739	1402.5	4340.0	560.0
2740	1495.0	4340.0	560.0	2741	1587.5	4340.0	560.0	2742	1680.0	4340.0	560.0
2743	1772.5	4340.0	560.0	2744	1865.0	4340.0	560.0	2745	1957.5	4340.0	560.0
2746	2050.0	4340.0	560.0	2747	1310.0	4420.0	560.0	2748	1402.5	4420.0	560.0
2749	1495.0	4420.0	560.0	2750	1587.5	4420.0	560.0	2751	1680.0	4420.0	560.0
2752	1772.5	4420.0	560.0	2753	1865.0	4420.0	560.0	2754	1957.5	4420.0	560.0
2755	2050.0	4420.0	560.0	2756	1217.5	4430.0	560.0	2757	1125.0	4440.0	560.0
2759	1125.0	4500.0	560.0	2760	1217.5	4500.0	560.0	2761	1310.0	4500.0	560.0
2762	1402.5	4500.0	560.0	2763	1495.0	4500.0	560.0	2764	1587.5	4500.0	560.0
2765	1680.0	4500.0	560.0	2766	1772.5	4500.0	560.0	2767	1865.0	4500.0	560.0
2768	1957.5	4500.0	560.0	2769	2050.0	4500.0	560.0				

Numerazione nodi



Numerazione elementi shell



2.15.2 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

TABELLA DATI SHELL

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
2162	Guscio	2225	2226	2237	2236	4	30.0		
2163	Guscio	2226	2227	2238	2237	4	30.0		
2164	Guscio	2227	2228	2239	2238	4	30.0		
2165	Guscio	2228	2229	2240	2239	4	30.0		
2166	Guscio	2229	2230	2241	2240	4	30.0		
2167	Guscio	2230	2231	2242	2241	4	30.0		
2168	Guscio	2231	2232	2243	2242	4	30.0		
2169	Guscio	2232	2233	2244	2243	4	30.0		
2170	Guscio	2233	2234	2245	2244	4	30.0		
2171	Guscio	2234	2235	2246	2245	4	30.0		
2172	Guscio	2236	2237	2248	2247	4	30.0		
2173	Guscio	2237	2238	2249	2248	4	30.0		
2174	Guscio	2238	2239	2250	2249	4	30.0		
2175	Guscio	2239	2240	2251	2250	4	30.0		
2176	Guscio	2240	2241	2252	2251	4	30.0		
2177	Guscio	2241	2242	2253	2252	4	30.0		
2178	Guscio	2242	2243	2254	2253	4	30.0		
2179	Guscio	2243	2244	2255	2254	4	30.0		
2180	Guscio	2244	2245	2256	2255	4	30.0		
2181	Guscio	2245	2246	2257	2256	4	30.0		
2182	Guscio	2249	2250	2259	2258	4	30.0		
2183	Guscio	2250	2251	2260	2259	4	30.0		
2184	Guscio	2251	2252	2261	2260	4	30.0		
2185	Guscio	2252	2253	2262	2261	4	30.0		
2186	Guscio	2253	2254	2263	2262	4	30.0		
2187	Guscio	2254	2255	2264	2263	4	30.0		
2188	Guscio	2255	2256	2265	2264	4	30.0		
2189	Guscio	2256	2257	2266	2265	4	30.0		
2190	Guscio	2248	2249	2258	2267	4	30.0		
2191	Guscio	2247	2248	2267	2268	4	30.0		
2192	Guscio	2258	2259	2272	2271	4	30.0		
2193	Guscio	2259	2260	2273	2272	4	30.0		
2194	Guscio	2260	2261	2274	2273	4	30.0		
2195	Guscio	2261	2262	2275	2274	4	30.0		
2196	Guscio	2262	2263	2276	2275	4	30.0		
2197	Guscio	2263	2264	2277	2276	4	30.0		
2198	Guscio	2264	2265	2278	2277	4	30.0		
2199	Guscio	2265	2266	2279	2278	4	30.0		
2200	Guscio	2267	2258	2271	2270	4	30.0		
2201	Guscio	2268	2267	2270	2269	4	30.0		
2202	Guscio	2269	2270	2281	2280	4	30.0		
2203	Guscio	2270	2271	2282	2281	4	30.0		
2204	Guscio	2271	2272	2283	2282	4	30.0		
2205	Guscio	2272	2273	2284	2283	4	30.0		
2206	Guscio	2273	2274	2285	2284	4	30.0		
2207	Guscio	2274	2275	2286	2285	4	30.0		
2208	Guscio	2275	2276	2287	2286	4	30.0		
2209	Guscio	2276	2277	2288	2287	4	30.0		
2210	Guscio	2277	2278	2289	2288	4	30.0		
2211	Guscio	2278	2279	2290	2289	4	30.0		
2212	Guscio	2280	2281	2292	2291	4	30.0		
2213	Guscio	2281	2282	2293	2292	4	30.0		
2214	Guscio	2282	2283	2294	2293	4	30.0		
2215	Guscio	2283	2284	2295	2294	4	30.0		
2216	Guscio	2284	2285	2296	2295	4	30.0		
2217	Guscio	2285	2286	2297	2296	4	30.0		
2218	Guscio	2286	2287	2298	2297	4	30.0		
2219	Guscio	2287	2288	2299	2298	4	30.0		
2220	Guscio	2288	2289	2300	2299	4	30.0		
2221	Guscio	2289	2290	2301	2300	4	30.0		
2222	Guscio	2293	2294	2303	2302	4	30.0		
2223	Guscio	2294	2295	2304	2303	4	30.0		
2224	Guscio	2295	2296	2305	2304	4	30.0		
2225	Guscio	2296	2297	2306	2305	4	30.0		
2226	Guscio	2297	2298	2307	2306	4	30.0		
2227	Guscio	2298	2299	2308	2307	4	30.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
2228	Guscio	2299	2300	2309	2308	4	30.0		
2229	Guscio	2300	2301	2310	2309	4	30.0		
2230	Guscio	2292	2293	2302	2311	4	30.0		
2231	Guscio	2291	2292	2311	2312	4	30.0		
2232	Guscio	2302	2303	2317	2316	4	30.0		
2233	Guscio	2303	2304	2318	2317	4	30.0		
2234	Guscio	2304	2305	2319	2318	4	30.0		
2235	Guscio	2305	2306	2320	2319	4	30.0		
2236	Guscio	2306	2307	2321	2320	4	30.0		
2237	Guscio	2307	2308	2322	2321	4	30.0		
2238	Guscio	2308	2309	2323	2322	4	30.0		
2239	Guscio	2309	2310	2324	2323	4	30.0		
2240	Guscio	2311	2302	2316	2315	4	30.0		
2241	Guscio	2312	2311	2315	2314	4	30.0		
2242	Guscio	2314	2315	2326	2325	4	30.0		
2243	Guscio	2315	2316	2327	2326	4	30.0		
2244	Guscio	2316	2317	2328	2327	4	30.0		
2245	Guscio	2317	2318	2329	2328	4	30.0		
2246	Guscio	2318	2319	2330	2329	4	30.0		
2247	Guscio	2319	2320	2331	2330	4	30.0		
2248	Guscio	2320	2321	2332	2331	4	30.0		
2249	Guscio	2321	2322	2333	2332	4	30.0		
2250	Guscio	2322	2323	2334	2333	4	30.0		
2251	Guscio	2323	2324	2335	2334	4	30.0		
2252	Guscio	2325	2326	2337	2336	4	30.0		
2253	Guscio	2326	2327	2338	2337	4	30.0		
2254	Guscio	2327	2328	2339	2338	4	30.0		
2255	Guscio	2328	2329	2340	2339	4	30.0		
2256	Guscio	2329	2330	2341	2340	4	30.0		
2257	Guscio	2330	2331	2342	2341	4	30.0		
2258	Guscio	2331	2332	2343	2342	4	30.0		
2259	Guscio	2332	2333	2344	2343	4	30.0		
2260	Guscio	2333	2334	2345	2344	4	30.0		
2261	Guscio	2334	2335	2346	2345	4	30.0		
2262	Guscio	2338	2339	2348	2347	4	30.0		
2263	Guscio	2339	2340	2349	2348	4	30.0		
2264	Guscio	2340	2341	2350	2349	4	30.0		
2265	Guscio	2341	2342	2351	2350	4	30.0		
2266	Guscio	2342	2343	2352	2351	4	30.0		
2267	Guscio	2343	2344	2353	2352	4	30.0		
2268	Guscio	2344	2345	2354	2353	4	30.0		
2269	Guscio	2345	2346	2355	2354	4	30.0		
2270	Guscio	2337	2338	2347	2356	4	30.0		
2271	Guscio	2336	2337	2356	2357	4	30.0		
2272	Guscio	2347	2348	2361	2360	4	30.0		
2273	Guscio	2348	2349	2362	2361	4	30.0		
2274	Guscio	2349	2350	2363	2362	4	30.0		
2275	Guscio	2350	2351	2364	2363	4	30.0		
2276	Guscio	2351	2352	2365	2364	4	30.0		
2277	Guscio	2352	2353	2366	2365	4	30.0		
2278	Guscio	2353	2354	2367	2366	4	30.0		
2279	Guscio	2354	2355	2368	2367	4	30.0		
2280	Guscio	2356	2347	2360	2359	4	30.0		
2281	Guscio	2357	2356	2359	2358	4	30.0		
2282	Guscio	2358	2359	2370	2369	4	30.0		
2283	Guscio	2359	2360	2371	2370	4	30.0		
2284	Guscio	2360	2361	2372	2371	4	30.0		
2285	Guscio	2361	2362	2373	2372	4	30.0		
2286	Guscio	2362	2363	2374	2373	4	30.0		
2287	Guscio	2363	2364	2375	2374	4	30.0		
2288	Guscio	2364	2365	2376	2375	4	30.0		
2289	Guscio	2365	2366	2377	2376	4	30.0		
2290	Guscio	2366	2367	2378	2377	4	30.0		
2291	Guscio	2367	2368	2379	2378	4	30.0		
2292	Guscio	2369	2370	2381	2380	4	30.0		
2293	Guscio	2370	2371	2382	2381	4	30.0		
2294	Guscio	2371	2372	2383	2382	4	30.0		
2295	Guscio	2372	2373	2384	2383	4	30.0		
2296	Guscio	2373	2374	2385	2384	4	30.0		
2297	Guscio	2374	2375	2386	2385	4	30.0		
2298	Guscio	2375	2376	2387	2386	4	30.0		
2299	Guscio	2376	2377	2388	2387	4	30.0		
2300	Guscio	2377	2378	2389	2388	4	30.0		
2301	Guscio	2378	2379	2390	2389	4	30.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
2302	Guscio	2382	2383	2392	2391	4	30.0		
2303	Guscio	2383	2384	2393	2392	4	30.0		
2304	Guscio	2384	2385	2394	2393	4	30.0		
2305	Guscio	2385	2386	2395	2394	4	30.0		
2306	Guscio	2386	2387	2396	2395	4	30.0		
2307	Guscio	2387	2388	2397	2396	4	30.0		
2308	Guscio	2388	2389	2398	2397	4	30.0		
2309	Guscio	2389	2390	2399	2398	4	30.0		
2310	Guscio	2381	2382	2391	2400	4	30.0		
2311	Guscio	2380	2381	2400	2401	4	30.0		
2312	Guscio	2391	2392	2406	2405	4	30.0		
2313	Guscio	2392	2393	2407	2406	4	30.0		
2314	Guscio	2393	2394	2408	2407	4	30.0		
2315	Guscio	2394	2395	2409	2408	4	30.0		
2316	Guscio	2395	2396	2410	2409	4	30.0		
2317	Guscio	2396	2397	2411	2410	4	30.0		
2318	Guscio	2397	2398	2412	2411	4	30.0		
2319	Guscio	2398	2399	2413	2412	4	30.0		
2320	Guscio	2400	2391	2405	2404	4	30.0		
2321	Guscio	2401	2400	2404	2403	4	30.0		
2322	Guscio	2403	2404	2415	2414	4	30.0		
2323	Guscio	2404	2405	2416	2415	4	30.0		
2324	Guscio	2405	2406	2417	2416	4	30.0		
2325	Guscio	2406	2407	2418	2417	4	30.0		
2326	Guscio	2407	2408	2419	2418	4	30.0		
2327	Guscio	2408	2409	2420	2419	4	30.0		
2328	Guscio	2409	2410	2421	2420	4	30.0		
2329	Guscio	2410	2411	2422	2421	4	30.0		
2330	Guscio	2411	2412	2423	2422	4	30.0		
2331	Guscio	2412	2413	2424	2423	4	30.0		
2332	Guscio	2414	2415	2426	2425	4	30.0		
2333	Guscio	2415	2416	2427	2426	4	30.0		
2334	Guscio	2416	2417	2428	2427	4	30.0		
2335	Guscio	2417	2418	2429	2428	4	30.0		
2336	Guscio	2418	2419	2430	2429	4	30.0		
2337	Guscio	2419	2420	2431	2430	4	30.0		
2338	Guscio	2420	2421	2432	2431	4	30.0		
2339	Guscio	2421	2422	2433	2432	4	30.0		
2340	Guscio	2422	2423	2434	2433	4	30.0		
2341	Guscio	2423	2424	2435	2434	4	30.0		
2342	Guscio	2427	2428	2437	2436	4	30.0		
2343	Guscio	2428	2429	2438	2437	4	30.0		
2344	Guscio	2429	2430	2439	2438	4	30.0		
2345	Guscio	2430	2431	2440	2439	4	30.0		
2346	Guscio	2431	2432	2441	2440	4	30.0		
2347	Guscio	2432	2433	2442	2441	4	30.0		
2348	Guscio	2433	2434	2443	2442	4	30.0		
2349	Guscio	2434	2435	2444	2443	4	30.0		
2350	Guscio	2426	2427	2436	2445	4	30.0		
2351	Guscio	2425	2426	2445	2446	4	30.0		
2352	Guscio	2436	2437	2450	2449	4	30.0		
2353	Guscio	2437	2438	2451	2450	4	30.0		
2354	Guscio	2438	2439	2452	2451	4	30.0		
2355	Guscio	2439	2440	2453	2452	4	30.0		
...									
2641	Guscio	2757	2756	2760	2759	4	30.0		

2.15.3 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

TABELLA VERIFICHE ELEMENTI GUSCIO IN C.A.

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 2225	0.20	0.8	5.92e-04	24.2	21.4	27.2	21.4	407.6	1300.1	639.9	-592.7	-1914.0	-249.8
8	ok 2226	0.16	0.7	4.25e-02	13.6	12.1	13.6	12.1	159.9	141.3	154.1	378.1	1981.5	-41.5
8	ok 2227	0.13	0.7	7.04e-02	7.7	8.4	7.7	8.4	106.0	4.2	157.7	837.9	3931.9	-126.5
8	ok 2228	0.13	0.8	6.58e-02	7.7	8.1	7.7	8.1	73.7	-105.1	154.1	1088.1	5167.7	-109.9
8	ok 2229	0.13	0.8	6.14e-02	7.7	8.1	7.7	8.1	70.3	-142.2	119.5	1228.1	5806.1	-75.3
8	ok 2230	0.13	0.8	5.79e-02	7.7	7.8	7.7	7.8	69.7	-152.7	125.9	1290.3	6096.5	44.9
8	ok 2231	0.13	0.8	5.69e-02	7.7	7.7	7.7	7.7	66.5	-150.2	96.9	1293.9	6139.2	97.5
8	ok 2232	0.13	0.7	5.80e-02	7.7	7.7	7.7	7.7	60.5	-135.7	62.4	1222.8	5876.6	141.9
8	ok 2233	0.13	0.6	5.37e-02	7.7	7.7	7.7	7.7	57.5	-96.1	-16.0	1060.9	5047.2	73.1
8	ok 2234	0.13	0.4	3.53e-02	7.7	7.7	7.7	7.7	67.9	10.8	-64.0	963.3	2949.3	-28.1
8	ok 2235	0.13	0.1	1.73e-02	7.7	7.7	7.7	7.7	53.3	67.2	-34.8	-779.4	451.2	-30.3
8	ok 2236	0.22	0.9	6.22e-02	18.4	18.6	33.2	28.3	-92.7	1458.7	526.5	-368.7	-3392.2	211.9
8	ok 2237	0.16	0.7	3.43e-02	12.8	13.4	14.0	13.4	289.5	472.8	183.2	-271.9	-1276.4	1513.4
8	ok 2238	0.13	0.5	5.12e-02	8.7	8.8	8.7	8.8	201.2	152.3	176.2	-688.7	-1552.0	747.8
8	ok 2239	0.13	0.2	5.40e-02	7.7	7.7	7.7	7.7	165.4	99.6	134.3	-437.1	-1447.1	375.6
8	ok 2240	0.13	0.2	5.13e-02	7.7	7.7	7.7	7.7	142.9	73.4	116.2	-292.5	-1300.2	217.1
8	ok 2241	0.13	0.2	4.85e-02	7.7	7.7	7.7	7.7	125.1	65.9	109.8	-228.8	-1166.6	142.3
8	ok 2242	0.13	0.2	4.72e-02	7.7	7.7	7.7	7.7	107.0	61.8	107.4	-222.1	-1055.1	80.5
8	ok 2243	0.13	0.2	4.67e-02	7.7	7.7	7.7	7.7	84.9	54.2	105.1	-292.3	-954.3	-71.9
8	ok 2244	0.13	0.2	4.31e-02	7.7	7.7	7.7	7.7	57.2	39.8	102.2	-498.9	-834.7	-296.2
8	ok 2245	0.13	0.3	3.49e-02	7.7	7.7	7.7	7.7	24.9	34.7	-7.8	-548.2	-492.1	-992.6
8	ok 2246	0.13	0.2	5.38e-02	7.7	7.7	7.7	7.7	-21.6	-46.3	91.3	1217.5	237.1	-273.6
8	ok 2247	0.18	0.8	5.09e-02	8.9	10.7	17.8	18.5	29.3	697.3	-91.6	3484.8	1575.6	64.1
8	ok 2248	0.16	0.8	3.12e-02	12.2	12.1	15.2	12.1	188.5	569.7	342.3	-1569.0	-1949.5	933.0
8	ok 2249	0.14	0.9	4.37e-02	10.6	7.9	10.6	7.9	199.5	232.1	195.9	-1337.1	-2620.2	459.1
8	ok 2250	0.13	0.7	4.87e-02	8.4	7.7	8.4	7.7	191.0	120.9	154.3	-937.5	-3014.4	333.0
8	ok 2251	0.13	0.5	5.00e-02	7.7	7.7	7.7	7.7	170.3	81.3	133.5	-720.3	-3037.1	261.1
8	ok 2252	0.13	0.5	4.72e-02	7.7	7.7	7.7	7.7	148.4	67.8	126.5	-645.0	-2963.1	205.5
8	ok 2253	0.13	0.5	4.22e-02	7.7	7.7	7.7	7.7	126.0	62.2	126.5	-653.9	-2874.9	156.0
8	ok 2254	0.13	0.4	3.70e-02	7.7	7.7	7.7	7.7	100.9	54.8	127.8	-775.8	-2731.2	115.3
8	ok 2255	0.13	0.4	3.36e-02	7.7	7.7	7.7	7.7	72.4	40.9	128.9	-1055.2	-2329.3	84.5
8	ok 2256	0.13	0.3	3.43e-02	7.7	7.7	7.7	7.7	41.5	4.3	127.8	-1147.0	-1225.7	-171.2
8	ok 2257	0.13	0.4	4.18e-02	7.7	7.7	7.7	7.7	18.5	-45.1	121.7	2347.7	446.6	-85.9
8	ok 2258	0.14	0.8	3.67e-02	9.7	7.7	9.7	7.7	143.9	219.9	147.2	-843.4	-1309.4	-183.7
8	ok 2259	0.13	0.6	4.47e-02	7.9	7.7	7.9	7.7	253.2	21.6	214.4	-579.6	-1464.7	301.6
8	ok 2260	0.13	0.3	4.76e-02	7.7	7.7	7.7	7.7	255.9	-47.9	184.6	-455.8	-1447.6	331.4
8	ok 2261	0.13	0.3	4.62e-02	7.7	7.7	7.7	7.7	244.0	-74.4	157.0	-412.8	-1414.9	252.1
8	ok 2262	0.13	0.3	4.25e-02	7.7	7.7	7.7	7.7	223.2	-73.0	133.5	-408.6	-1361.7	158.5
8	ok 2263	0.13	0.2	3.90e-02	7.7	7.7	7.7	7.7	127.2	52.2	150.8	-431.2	-1234.9	242.8
8	ok 2264	0.13	0.2	3.78e-02	7.7	7.7	7.7	7.7	100.3	39.5	152.9	-632.0	-1191.2	460.8
8	ok 2265	0.13	0.2	3.72e-02	7.7	7.7	7.7	7.7	71.5	18.4	147.9	-869.7	-822.0	959.6
8	ok 2266	0.13	0.3	3.50e-02	7.7	7.7	7.7	7.7	66.9	-12.0	133.6	1352.2	444.8	296.3
8	ok 2267	0.14	0.8	1.74e-02	10.1	9.8	10.1	9.8	46.0	422.8	152.5	-2336.6	-434.6	-113.1
8	ok 2268	0.15	0.8	5.34e-02	7.7	10.1	7.7	13.1	90.0	270.9	-17.0	4682.6	5346.2	718.1
8	ok 2269	0.13	0.4	2.61e-02	8.7	8.6	8.7	8.6	0.1	376.5	180.6	2302.7	588.0	-566.9
8	ok 2270	0.14	0.8	3.00e-02	9.1	9.9	9.1	9.9	165.6	271.6	35.0	-2004.3	641.6	-634.0
8	ok 2271	0.14	0.8	3.90e-02	7.7	10.8	7.7	10.8	220.5	141.6	283.6	452.7	3394.1	295.2
8	ok 2272	0.14	0.8	4.69e-02	7.7	10.3	7.7	10.3	257.4	38.2	285.4	584.1	3985.3	329.7
8	ok 2273	0.14	0.7	5.04e-02	7.7	9.7	7.7	9.7	276.7	-24.6	253.4	598.9	3979.3	309.8
8	ok 2274	0.13	0.7	4.73e-02	7.7	9.1	7.7	9.1	279.2	-53.4	211.3	574.0	3875.5	279.0
8	ok 2275	0.13	0.7	4.22e-02	7.7	8.4	7.7	8.4	195.2	-52.0	100.5	641.4	3903.1	165.8
8	ok 2276	0.13	0.7	4.05e-02	7.7	7.7	7.7	7.7	162.3	47.1	169.1	622.9	3767.3	234.5
8	ok 2277	0.13	0.7	3.99e-02	7.7	7.7	7.7	7.7	138.3	41.0	176.2	529.4	3370.0	273.5
8	ok 2278	0.13	0.4	3.94e-02	7.7	7.7	7.7	7.7	107.2	24.6	172.7	181.1	1970.9	328.2
8	ok 2279	0.13	7.69e-02	3.30e-02	7.7	7.7	7.7	7.7	60.4	25.5	141.5	-265.0	-245.6	61.0
8	ok 2280	0.16	0.9	1.46e-02	11.1	10.6	14.3	10.6	71.7	596.4	108.8	1679.6	-973.4	535.3
8	ok 2281	0.13	0.6	2.57e-02	7.7	8.0	7.7	8.0	144.7	203.8	193.2	-588.5	-763.1	923.1
8	ok 2282	0.13	0.5	3.83e-02	7.9	7.7	7.9	7.7	181.8	95.5	243.1	-749.7	-1022.3	645.2
8	ok 2283	0.13	0.6	4.63e-02	7.8	7.7	7.8	7.7	189.9	50.8	135.6	-540.0	-1284.6	327.4
8	ok 2284	0.13	0.4	4.84e-02	7.7	7.7	7.7	7.7	226.7	2.9	165.8	-497.5	-1364.3	257.1
8	ok 2285	0.13	0.3	4.61e-02	7.7	7.7	7.7	7.7	229.3	-45.9	127.3	-496.8	-1417.6	230.0
8	ok 2286	0.13	0.2	4.19e-02	7.7	7.7	7.7	7.7	215.9	-87.8	96.4	-519.3	-1445.2	203.5
8	ok 2287	0.13	0.3	3.64e-02	7.7	7.7	7.7	7.7	184.4	-80.0	57.5	-590.8	-1386.0	135.6
8	ok 2288	0.13	0.4	3.11e-02	7.7	7.7	7.7	7.7	149.6	10.7	47.8	-755.6	-1215.4	-309.3
8	ok 2289	0.13	0.4	2.95e-02	7.7	7.7	7.7	7.7	118.0	37.4	27.8	-1026.3	-809.1	-909.2
8	ok 2290	0.13	0.3	2.56e-02	7.7	7.7	7.7	7.7	103.7	51.3	13.7	1185.6	406.2	-341.9
8	ok 2291	0.13	0.5	4.12e-02	7.7	7.7	7.7	7.7	20.6	144.8	-99.0	3260.9	1163.5	105.6

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 2292	0.13	0.5	3.89e-02	7.7	7.7	7.7	7.7	115.8	135.7	177.2	-1028.1	-1630.8	525.9
8	ok 2293	0.13	0.7	3.75e-02	8.2	7.7	8.2	7.7	144.3	97.7	207.8	-1292.6	-2156.1	336.4
8	ok 2294	0.13	0.7	4.41e-02	8.2	7.7	8.2	7.7	197.2	48.4	211.5	-1000.5	-2638.1	219.3
8	ok 2295	0.13	0.7	4.56e-02	8.1	7.7	8.1	7.7	233.8	13.3	208.0	-840.8	-2757.0	189.6
8	ok 2296	0.13	0.7	4.46e-02	8.0	7.7	8.0	7.7	250.8	-5.3	194.2	-805.8	-2780.9	182.8
8	ok 2297	0.13	0.7	4.18e-02	7.8	7.7	7.8	7.7	251.7	-8.0	176.3	-837.1	-2785.6	184.9
8	ok 2298	0.13	0.7	3.77e-02	7.7	7.7	7.7	7.7	238.4	2.8	157.6	-982.6	-2717.7	198.3
8	ok 2299	0.13	0.6	3.35e-02	7.7	7.7	7.7	7.7	213.8	37.0	151.9	-1310.4	-2347.7	266.2
8	ok 2300	0.13	0.4	3.17e-02	7.7	7.7	7.7	7.7	175.2	73.7	134.3	-1461.3	-1272.2	298.3
8	ok 2301	0.13	0.5	2.72e-02	7.7	7.7	7.7	7.7	106.9	66.2	35.2	2003.4	404.3	-39.0
8	ok 2302	0.13	0.3	3.57e-02	7.7	7.7	7.7	7.7	93.0	41.1	104.3	-724.9	-970.4	-265.9
8	ok 2303	0.13	0.3	4.01e-02	7.7	7.7	7.7	7.7	146.3	-39.8	225.2	-521.4	-1118.7	-16.2
8	ok 2304	0.13	0.3	4.32e-02	7.7	7.7	7.7	7.7	177.8	-22.6	233.0	-445.5	-1161.0	64.1
8	ok 2305	0.13	0.3	4.34e-02	7.7	7.7	7.7	7.7	195.9	-9.0	240.4	-427.1	-1167.4	81.3
8	ok 2306	0.13	0.3	4.17e-02	7.7	7.7	7.7	7.7	194.0	-1.9	155.7	-438.4	-1156.8	80.3
8	ok 2307	0.13	0.3	3.82e-02	7.7	7.7	7.7	7.7	252.0	14.0	171.9	-520.0	-969.8	285.5
8	ok 2308	0.13	0.2	3.51e-02	7.7	7.7	7.7	7.7	233.0	33.9	163.3	-741.0	-1019.2	579.5
8	ok 2309	0.13	0.3	2.99e-02	7.7	7.7	7.7	7.7	198.4	87.2	163.5	-1114.4	-787.2	1220.5
8	ok 2310	0.13	0.5	2.06e-02	7.7	7.7	7.7	7.7	195.1	123.5	139.8	594.1	355.0	427.9
8	ok 2311	0.13	0.3	3.39e-02	7.7	7.7	7.7	7.7	-78.6	88.7	99.1	-1846.5	-331.0	-568.6
8	ok 2312	0.13	0.6	9.59e-02	7.7	7.7	7.7	7.7	36.3	-359.3	-45.6	4133.8	5357.4	366.8
8	ok 2314	0.15	0.6	0.1	12.5	11.9	12.8	11.9	-105.7	-368.7	200.2	1860.7	-538.6	-713.9
8	ok 2315	0.13	0.7	4.64e-02	7.7	8.1	7.7	8.1	89.9	85.9	181.1	743.2	2403.8	-37.3
8	ok 2316	0.13	0.7	4.86e-02	7.7	8.3	7.7	8.3	177.7	11.7	201.8	526.6	3763.2	174.4
8	ok 2317	0.13	0.7	4.36e-02	7.7	9.1	7.7	9.1	221.9	4.1	220.8	619.9	4434.3	194.1
8	ok 2318	0.13	0.7	4.00e-02	7.7	9.4	7.7	9.4	254.5	2.5	219.6	681.5	4510.1	215.4
8	ok 2319	0.13	0.7	4.13e-02	7.7	9.4	7.7	9.4	274.3	3.0	203.6	666.5	4436.8	236.2
8	ok 2320	0.13	0.7	4.08e-02	7.7	9.2	7.7	9.2	279.5	11.0	195.0	653.6	4378.4	251.6
8	ok 2321	0.13	0.7	3.85e-02	7.7	9.3	7.7	9.3	272.0	28.7	196.3	648.3	4380.4	270.9
8	ok 2322	0.13	0.7	3.69e-02	7.7	9.2	7.7	9.2	256.3	55.3	194.0	523.0	3988.7	305.0
8	ok 2323	0.13	0.7	3.22e-02	7.7	8.2	7.7	8.2	234.5	91.3	185.0	31.1	2385.4	343.0
8	ok 2324	0.13	0.3	1.94e-02	7.7	7.7	7.7	7.7	168.8	156.3	70.9	-861.4	-558.2	-81.8
8	ok 2325	0.14	0.8	6.14e-02	9.0	8.0	11.4	8.0	33.2	-281.8	8.7	1874.3	1780.7	-232.9
8	ok 2326	0.13	0.2	5.11e-02	7.7	7.7	7.7	7.7	172.4	-37.7	181.3	-418.1	-584.0	1041.3
8	ok 2327	0.13	0.2	4.85e-02	7.7	7.7	7.7	7.7	110.1	50.0	130.2	-668.1	-903.7	508.4
8	ok 2328	0.13	0.2	4.13e-02	7.7	7.7	7.7	7.7	187.4	44.6	131.7	-466.3	-940.6	289.0
8	ok 2329	0.13	0.2	3.90e-02	7.7	7.7	7.7	7.7	202.0	24.7	126.5	-397.1	-977.7	229.0
8	ok 2330	0.13	0.2	3.65e-02	7.7	7.7	7.7	7.7	199.0	-4.0	49.8	-388.1	-1033.7	199.2
8	ok 2331	0.13	0.2	3.30e-02	7.7	7.7	7.7	7.7	202.1	-14.2	28.0	-409.3	-1067.2	201.7
8	ok 2332	0.13	0.2	2.78e-02	7.7	7.7	7.7	7.7	196.9	-29.5	4.1	-475.9	-1089.0	179.1
8	ok 2333	0.13	0.4	2.30e-02	7.7	7.7	7.7	7.7	238.0	70.2	142.6	-775.2	-1114.0	-156.5
8	ok 2334	0.13	0.6	1.80e-02	7.7	7.7	7.7	7.7	208.0	87.3	108.0	-1371.1	-860.0	-817.0
8	ok 2335	0.13	0.2	1.45e-02	7.7	7.7	7.7	7.7	196.1	111.7	110.0	444.7	360.0	-242.4
8	ok 2336	0.13	0.4	7.11e-02	7.7	7.7	7.7	7.7	-1.6	-94.8	-51.6	3056.5	870.9	170.3
8	ok 2337	0.13	0.3	5.70e-02	7.7	7.7	7.7	7.7	98.0	45.0	107.3	-1063.3	-1676.4	470.9
8	ok 2338	0.13	0.3	4.52e-02	7.7	7.7	7.7	7.7	102.9	42.8	119.4	-1224.3	-2162.2	249.9
8	ok 2339	0.13	0.4	3.90e-02	7.7	7.7	7.7	7.7	121.0	53.2	137.1	-898.0	-2550.2	177.9
8	ok 2340	0.13	0.5	3.73e-02	7.7	7.7	7.7	7.7	139.7	58.9	152.3	-705.7	-2626.2	158.3
8	ok 2341	0.13	0.6	3.54e-02	7.7	7.7	7.7	7.7	154.1	60.3	162.0	-653.0	-2631.4	148.4
8	ok 2342	0.13	0.6	3.28e-02	7.7	7.7	7.7	7.7	162.2	59.2	166.6	-686.4	-2648.9	144.1
8	ok 2343	0.13	0.7	2.89e-02	7.7	7.7	7.7	7.7	164.1	56.7	167.3	-847.6	-2637.7	151.3
8	ok 2344	0.13	0.7	2.52e-02	7.7	7.7	7.7	7.7	159.7	68.2	177.9	-1224.0	-2379.8	222.2
8	ok 2345	0.13	0.5	2.16e-02	7.7	7.7	7.7	7.7	203.1	119.0	151.1	-1714.6	-1346.3	302.3
8	ok 2346	0.13	0.5	2.00e-02	7.7	7.7	7.7	7.7	173.2	123.5	144.1	1188.3	269.3	166.1
8	ok 2347	0.13	0.2	4.17e-02	7.7	7.7	7.7	7.7	86.5	14.7	85.1	-784.9	-951.3	-306.4
8	ok 2348	0.13	0.2	4.04e-02	7.7	7.7	7.7	7.7	127.8	-61.6	89.7	-501.0	-1037.1	-82.6
8	ok 2349	0.13	0.2	3.50e-02	7.7	7.7	7.7	7.7	166.9	-25.7	155.2	-417.9	-1064.9	24.4
8	ok 2350	0.13	0.2	3.40e-02	7.7	7.7	7.7	7.7	184.9	6.2	189.3	-399.2	-1070.1	28.2
8	ok 2351	0.13	0.3	3.24e-02	7.7	7.7	7.7	7.7	193.7	36.9	220.8	-404.1	-1057.6	25.3
8	ok 2352	0.13	0.3	2.93e-02	7.7	7.7	7.7	7.7	202.3	79.4	224.7	-457.4	-1028.3	60.8
8	ok 2353	0.13	0.3	2.70e-02	7.7	7.7	7.7	7.7	164.0	52.5	169.6	-641.3	-966.9	468.5
8	ok 2354	0.13	0.3	2.40e-02	7.7	7.7	7.7	7.7	215.4	119.2	172.1	-1196.0	-888.5	1222.7
8	ok 2355	0.13	0.5	1.92e-02	7.7	7.7	7.7	7.7	225.9	136.7	165.2	-111.4	151.7	555.4
8	ok 2356	0.13	0.3	4.68e-02	7.7	7.7	7.7	7.7	10.9	-115.5	-4.2	-2136.4	-150.4	-395.4
8	ok 2357	0.13	0.8	0.1	7.7	7.7	7.7	7.7	106.4	-368.6	43.8	4341.5	5220.5	559.8
8	ok 2358	0.13	0.4	5.86e-02	7.7	7.7	7.7	7.7	-64.3	-55.0	62.3	2626.3	834.7	-87.9
8	ok 2359	0.13	0.4	6.96e-02	7.7	7.7	7.7	7.7	164.1	-219.5	-37.8	-1806.4	1174.7	-616.7
8	ok 2360	0.13	0.6	5.53e-02	7.7	7.7	7.7	7.7	169.8	-105.5	185.7	500.0	3850.3	160.9
8	ok 2361	0.13	0.7	4.28e-02	7.7	7.9	7.7	7.9	204.5	-57.4	185.5	662.2	4491.5	176.4
8	ok 2362	0.13	0.7	3.49e-02	7.7	8.4	7.7	8.4	235.3	-23.3	175.9	690.8	4549.2	178.9
8	ok 2363	0.13	0.7	3.23e-02	7.7	8.6	7.7	8.6	256.4	4.5	160.2	676.2	4487.0	185.7
8	ok 2364	0.13	0.8	3.15e-02	7.7	8.7	7.7	8.7	177.0	49.3	168.0	736.3	4407.3	196.7
8	ok 2365	0.13	0.7	2.97e-02	7.7	9.1	7.7	9.1	260.6	57.7	179.4	675.9	4479.7	193.1
8	ok 2366	0.13	0.8	2.86e-02	7.7	9.1	7.7	9.1	247.3	87.6	184.9	606.9	4211.2	220.6

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 2367	0.13	0.7	2.61e-02	7.7	8.2	7.7	8.2	178.1	68.8	185.2	417.1	2571.9	504.0
8	ok 2368	0.13	0.4	1.40e-02	7.7	7.7	7.7	7.7	220.7	191.0	144.4	-1656.1	-360.8	157.6
8	ok 2369	0.13	0.4	0.1	7.7	7.7	7.7	7.7	69.2	-251.0	101.4	2506.9	2421.6	-258.0
8	ok 2370	0.13	0.2	6.62e-02	7.7	7.7	7.7	7.7	106.2	-170.3	148.2	-573.3	-269.4	770.7
8	ok 2371	0.13	0.2	5.34e-02	7.7	7.7	7.7	7.7	103.9	-47.2	100.9	-725.3	-828.8	417.7
8	ok 2372	0.13	0.1	4.05e-02	7.7	7.7	7.7	7.7	119.6	1.5	41.9	-455.0	-902.9	272.1
8	ok 2373	0.13	0.2	3.34e-02	7.7	7.7	7.7	7.7	155.1	10.5	86.2	-396.5	-938.9	212.1
8	ok 2374	0.13	0.2	2.73e-02	7.7	7.7	7.7	7.7	174.8	14.8	81.7	-384.3	-980.0	201.0
8	ok 2375	0.13	0.2	2.24e-02	7.7	7.7	7.7	7.7	183.5	19.5	65.4	-401.2	-1005.6	201.1
8	ok 2376	0.13	0.2	1.72e-02	7.7	7.7	7.7	7.7	182.5	15.1	47.8	-476.2	-1026.6	161.8
8	ok 2377	0.13	0.4	1.27e-02	7.7	7.7	7.7	7.7	232.3	93.5	118.6	-725.1	-1029.9	-183.3
8	ok 2378	0.13	0.6	9.18e-03	7.7	7.7	7.7	7.7	215.8	122.4	101.2	-1345.9	-942.2	-910.4
8	ok 2379	0.13	0.3	7.68e-03	7.7	7.7	7.7	7.7	168.5	128.3	50.4	152.1	173.0	-372.6
8	ok 2380	0.13	0.4	6.93e-02	7.7	7.7	7.7	7.7	55.2	-220.4	17.5	2725.1	-251.0	-131.5
8	ok 2381	0.13	0.2	6.54e-02	7.7	7.7	7.7	7.7	55.8	-92.5	78.4	-642.7	-1275.9	74.8
8	ok 2382	0.13	0.3	4.89e-02	7.7	7.7	7.7	7.7	87.7	-46.0	75.4	-1181.5	-2136.0	112.1
8	ok 2383	0.13	0.4	4.03e-02	7.7	7.7	7.7	7.7	157.5	-37.0	115.8	-948.4	-2429.4	131.2
8	ok 2384	0.13	0.4	3.03e-02	7.7	7.7	7.7	7.7	193.9	-5.1	118.4	-779.2	-2529.7	108.6
8	ok 2385	0.13	0.4	2.58e-02	7.7	7.7	7.7	7.7	218.8	20.4	120.5	-733.7	-2552.4	104.3
8	ok 2386	0.13	0.5	2.22e-02	7.7	7.7	7.7	7.7	232.4	42.2	120.9	-755.1	-2578.7	105.1
8	ok 2387	0.13	0.5	1.80e-02	7.7	7.7	7.7	7.7	235.6	62.7	120.2	-895.1	-2577.6	113.1
8	ok 2388	0.13	0.6	1.48e-02	7.7	7.7	7.7	7.7	228.2	84.7	118.7	-1293.3	-2344.3	143.7
8	ok 2389	0.13	0.6	1.19e-02	7.7	7.7	7.7	7.7	205.7	135.1	125.6	-1779.1	-1380.3	190.3
8	ok 2390	0.13	0.4	1.09e-02	7.7	7.7	7.7	7.7	181.8	134.7	115.5	1008.7	232.7	129.7
8	ok 2391	0.13	0.2	4.27e-02	7.7	7.7	7.7	7.7	82.2	-37.2	42.4	-702.8	-961.9	-297.6
8	ok 2392	0.13	0.2	3.59e-02	7.7	7.7	7.7	7.7	154.6	-72.9	141.8	-501.3	-1069.7	-95.3
8	ok 2393	0.13	0.2	3.14e-02	7.7	7.7	7.7	7.7	160.8	-23.5	94.0	-417.6	-1100.9	-33.6
8	ok 2394	0.13	0.2	2.44e-02	7.7	7.7	7.7	7.7	181.2	3.6	103.8	-397.5	-1116.5	-46.1
8	ok 2395	0.13	0.2	2.19e-02	7.7	7.7	7.7	7.7	189.7	31.2	117.6	-413.5	-1117.9	-45.0
8	ok 2396	0.13	0.3	1.85e-02	7.7	7.7	7.7	7.7	191.9	67.8	130.8	-468.0	-1104.9	-7.1
8	ok 2397	0.13	0.3	1.76e-02	7.7	7.7	7.7	7.7	178.3	87.1	69.9	-703.7	-1083.5	376.4
8	ok 2398	0.13	0.4	1.44e-02	7.7	7.7	7.7	7.7	219.0	132.4	143.7	-1311.4	-930.2	1146.2
8	ok 2399	0.13	0.4	9.20e-03	7.7	7.7	7.7	7.7	229.5	155.1	135.5	-115.5	182.7	506.0
8	ok 2400	0.13	0.2	5.51e-02	7.7	7.7	7.7	7.7	-118.9	-31.9	60.2	-923.1	-83.7	-628.3
8	ok 2401	0.13	0.5	0.1	7.7	7.7	7.7	7.7	-72.9	-519.6	20.2	3038.8	3913.6	374.2
8	ok 2403	0.13	0.7	0.1	8.3	8.3	8.3	8.3	-93.4	121.6	160.0	1762.3	-336.4	563.1
8	ok 2404	0.13	0.4	6.65e-02	7.7	7.7	7.7	7.7	53.3	-75.0	185.3	907.9	2585.4	-8.9
8	ok 2405	0.13	0.5	4.96e-02	7.7	7.7	7.7	7.7	154.9	-124.7	167.1	531.5	3768.1	138.2
8	ok 2406	0.13	0.6	3.99e-02	7.7	7.7	7.7	7.7	198.5	-81.4	150.8	604.8	4383.2	115.7
8	ok 2407	0.13	0.7	3.14e-02	7.7	7.7	7.7	7.7	149.4	-6.2	129.2	737.0	4407.6	127.7
8	ok 2408	0.13	0.7	2.31e-02	7.7	7.7	7.7	7.7	165.8	16.0	123.5	732.2	4375.3	157.0
8	ok 2409	0.13	0.7	2.15e-02	7.7	8.2	7.7	8.2	175.0	34.2	116.6	714.2	4289.1	185.5
8	ok 2410	0.13	0.7	2.01e-02	7.7	8.3	7.7	8.3	258.4	61.0	131.6	647.5	4342.9	130.1
8	ok 2411	0.13	0.7	1.91e-02	7.7	8.4	7.7	8.4	252.3	91.2	142.7	549.3	4042.6	157.4
8	ok 2412	0.13	0.6	1.68e-02	7.7	7.7	7.7	7.7	247.1	122.5	146.7	12.4	2541.6	229.9
8	ok 2413	0.13	0.4	7.32e-03	7.7	7.7	7.7	7.7	193.4	87.5	-1.3	-1761.6	-411.5	-136.3
8	ok 2414	0.13	0.3	9.75e-02	7.7	7.7	7.7	7.7	9.1	-404.5	37.5	2212.4	2574.2	-270.6
8	ok 2415	0.13	0.2	5.90e-02	7.7	7.7	7.7	7.7	92.3	-176.8	169.0	-490.0	-523.6	1012.2
8	ok 2416	0.13	0.2	4.65e-02	7.7	7.7	7.7	7.7	96.6	-47.2	106.5	-679.2	-862.6	422.4
8	ok 2417	0.13	0.2	3.64e-02	7.7	7.7	7.7	7.7	165.9	-47.4	64.5	-468.8	-920.8	242.4
8	ok 2418	0.13	0.2	2.87e-02	7.7	7.7	7.7	7.7	177.5	-23.1	51.9	-400.5	-977.6	182.7
8	ok 2419	0.13	0.2	1.97e-02	7.7	7.7	7.7	7.7	175.4	-4.1	1.2	-387.7	-1035.6	149.0
8	ok 2420	0.13	0.2	1.34e-02	7.7	7.7	7.7	7.7	182.3	6.2	-13.7	-404.1	-1062.2	151.4
8	ok 2421	0.13	0.2	7.65e-03	7.7	7.7	7.7	7.7	183.0	3.8	-28.8	-457.2	-1070.3	132.6
8	ok 2422	0.13	0.3	3.89e-03	7.7	7.7	7.7	7.7	233.5	95.8	85.0	-742.7	-1077.4	-238.9
8	ok 2423	0.13	0.5	1.98e-03	7.7	7.7	7.7	7.7	217.2	128.2	71.9	-1386.0	-949.3	-937.9
8	ok 2424	0.13	0.2	2.19e-03	7.7	7.7	7.7	7.7	182.8	47.1	8.4	-615.9	-8.9	-389.1
8	ok 2425	0.13	0.4	7.53e-02	7.7	7.7	7.7	7.7	32.1	-93.9	15.1	2676.8	-595.4	-155.3
8	ok 2426	0.13	0.2	5.65e-02	7.7	7.7	7.7	7.7	64.9	-63.0	85.8	-637.4	-1305.5	320.0
8	ok 2427	0.13	0.3	4.14e-02	7.7	7.7	7.7	7.7	97.1	-44.1	89.8	-1194.9	-2149.1	159.4
8	ok 2428	0.13	0.4	3.30e-02	7.7	7.7	7.7	7.7	116.4	-16.7	91.5	-899.8	-2541.9	105.1
8	ok 2429	0.13	0.4	2.60e-02	7.7	7.7	7.7	7.7	134.9	6.0	95.0	-711.1	-2624.5	93.5
8	ok 2430	0.13	0.4	1.84e-02	7.7	7.7	7.7	7.7	149.2	23.5	98.1	-656.3	-2632.2	87.6
8	ok 2431	0.13	0.4	1.37e-02	7.7	7.7	7.7	7.7	158.3	36.2	100.3	-684.0	-2651.1	85.8
8	ok 2432	0.13	0.5	9.11e-03	7.7	7.7	7.7	7.7	162.3	44.8	101.5	-836.3	-2646.8	93.9
8	ok 2433	0.13	0.5	7.70e-03	7.7	7.7	7.7	7.7	161.8	49.7	102.0	-1227.7	-2416.3	137.7
8	ok 2434	0.13	0.4	7.00e-03	7.7	7.7	7.7	7.7	151.9	76.6	110.0	-1725.5	-1438.1	207.8
8	ok 2435	0.13	0.4	9.87e-03	7.7	7.7	7.7	7.7	140.9	60.1	112.3	1085.2	203.1	130.4
8	ok 2436	0.13	0.2	3.74e-02	7.7	7.7	7.7	7.7	91.0	-52.4	60.1	-754.1	-971.0	-370.8
8	ok 2437	0.13	0.2	2.97e-02	7.7	7.7	7.7	7.7	123.8	-37.9	47.0	-502.6	-1061.7	-176.8
8	ok 2438	0.13	0.2	2.35e-02	7.7	7.7	7.7	7.7	159.6	-14.9	130.6	-422.8	-1088.4	-77.3
8	ok 2439	0.13	0.2	1.71e-02	7.7	7.7	7.7	7.7	175.4	19.0	144.1	-403.6	-1089.3	-69.2
8	ok 2440	0.13	0.2	1.37e-02	7.7	7.7	7.7	7.7	184.9	48.2	149.0	-413.1	-1091.0	-67.1
8	ok 2441	0.13	0.2	1.04e-02	7.7	7.7	7.7	7.7	184.5	87.1	163.1	-462.9	-1068.2	-25.6

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 2442	0.13	0.2	1.07e-02	7.7	7.7	7.7	7.7	164.4	46.7	103.8	-646.6	-1004.8	390.4
8	ok 2443	0.13	0.4	1.08e-02	7.7	7.7	7.7	7.7	161.6	68.7	116.7	-1175.0	-1021.5	1146.5
8	ok 2444	0.13	0.3	1.06e-02	7.7	7.7	7.7	7.7	176.8	63.2	120.5	-170.0	18.9	554.0
8	ok 2445	0.13	0.3	4.71e-02	7.7	7.7	7.7	7.7	16.6	-62.3	-54.1	-1341.1	93.0	-395.8
8	ok 2446	0.13	0.6	0.1	7.7	7.7	7.7	7.7	69.7	-288.2	12.4	3477.6	4290.0	411.9
8	ok 2447	0.13	0.3	4.91e-02	7.7	7.7	7.7	7.7	-70.9	-29.8	82.0	2647.5	770.9	61.3
8	ok 2448	0.13	0.3	6.41e-02	7.7	7.7	7.7	7.7	131.2	-118.1	-79.2	-852.6	1173.7	-502.5
8	ok 2449	0.13	0.5	4.52e-02	7.7	7.7	7.7	7.7	172.2	-127.3	158.2	490.2	3764.9	98.6
8	ok 2450	0.13	0.6	3.41e-02	7.7	7.7	7.7	7.7	206.7	-78.2	134.2	648.6	4402.5	84.5
8	ok 2451	0.13	0.7	2.40e-02	7.7	7.7	7.7	7.7	234.9	-38.0	111.2	679.0	4481.2	78.2
8	ok 2452	0.13	0.7	1.63e-02	7.7	7.7	7.7	7.7	181.5	25.8	52.1	741.0	4442.8	48.4
8	ok 2453	0.13	0.8	1.44e-02	7.7	7.8	7.7	7.8	187.2	53.9	38.5	735.6	4414.0	73.8
8	ok 2454	0.13	0.7	1.23e-02	7.7	7.9	7.7	7.9	176.2	45.0	105.2	731.0	4350.2	103.4
8	ok 2455	0.13	0.7	1.35e-02	7.7	7.9	7.7	7.9	170.2	61.0	110.4	679.1	4018.8	172.0
8	ok 2456	0.13	0.5	1.37e-02	7.7	7.7	7.7	7.7	179.3	57.5	112.7	451.7	2535.0	435.2
8	ok 2457	0.13	0.4	3.72e-03	7.7	7.7	7.7	7.7	188.8	89.5	96.2	-1848.5	-333.3	211.4
8	ok 2458	0.13	0.5	9.55e-02	7.7	7.7	7.7	7.7	71.2	-199.5	116.7	2843.5	3084.7	-303.4
8	ok 2459	0.13	0.2	5.84e-02	7.7	7.7	7.7	7.7	105.5	-153.2	147.9	-551.9	-188.2	700.3
8	ok 2460	0.13	0.2	4.02e-02	7.7	7.7	7.7	7.7	107.5	-42.7	70.5	-739.3	-853.8	372.2
8	ok 2461	0.13	0.1	2.89e-02	7.7	7.7	7.7	7.7	122.1	-32.9	17.3	-459.8	-920.7	219.1
8	ok 2462	0.13	0.1	2.01e-02	7.7	7.7	7.7	7.7	156.2	-22.4	29.1	-399.4	-951.6	161.2
8	ok 2463	0.13	0.2	1.39e-02	7.7	7.7	7.7	7.7	173.4	1.5	17.9	-384.2	-983.0	151.4
8	ok 2464	0.13	0.2	9.47e-03	7.7	7.7	7.7	7.7	180.5	24.4	0.5	-397.6	-996.2	151.6
8	ok 2465	0.13	0.2	6.02e-03	7.7	7.7	7.7	7.7	185.9	32.1	-15.4	-472.3	-1001.8	112.8
8	ok 2466	0.13	0.3	3.80e-03	7.7	7.7	7.7	7.7	226.4	93.1	53.2	-704.8	-995.0	-273.3
8	ok 2467	0.13	0.5	5.07e-03	7.7	7.7	7.7	7.7	210.2	118.3	42.5	-1285.4	-935.0	-1008.6
8	ok 2468	0.13	0.3	6.73e-03	7.7	7.7	7.7	7.7	165.7	-21.8	-39.5	-447.7	-145.4	-257.4
8	ok 2469	0.13	0.4	7.51e-02	7.7	7.7	7.7	7.7	-1.1	-326.5	105.8	2412.4	681.9	112.3
8	ok 2470	0.13	0.2	5.35e-02	7.7	7.7	7.7	7.7	61.5	-72.3	59.7	-653.0	-1300.1	-53.5
8	ok 2471	0.13	0.3	3.40e-02	7.7	7.7	7.7	7.7	96.1	-37.2	45.4	-1174.9	-2162.6	64.0
8	ok 2472	0.13	0.4	2.39e-02	7.7	7.7	7.7	7.7	123.9	-3.3	37.0	-892.2	-2554.5	39.7
8	ok 2473	0.13	0.4	1.66e-02	7.7	7.7	7.7	7.7	200.5	-2.5	63.3	-785.3	-2566.7	43.4
8	ok 2474	0.13	0.4	1.17e-02	7.7	7.7	7.7	7.7	221.2	23.1	59.6	-739.3	-2584.3	41.2
8	ok 2475	0.13	0.4	8.21e-03	7.7	7.7	7.7	7.7	231.2	45.3	57.8	-759.6	-2604.6	43.4
8	ok 2476	0.13	0.4	5.52e-03	7.7	7.7	7.7	7.7	231.7	64.9	57.5	-898.5	-2595.3	51.6
8	ok 2477	0.13	0.4	5.22e-03	7.7	7.7	7.7	7.7	222.6	84.0	58.2	-1292.5	-2350.1	74.8
8	ok 2478	0.13	0.4	3.26e-03	7.7	7.7	7.7	7.7	198.6	125.5	65.4	-1751.1	-1378.3	74.9
8	ok 2479	0.13	0.3	8.01e-03	7.7	7.7	7.7	7.7	174.7	117.8	61.5	1072.2	238.0	66.8
8	ok 2480	0.13	0.2	2.78e-02	7.7	7.7	7.7	7.7	94.5	-23.6	17.0	-691.4	-999.5	-332.6
8	ok 2481	0.13	0.2	1.93e-02	7.7	7.7	7.7	7.7	166.6	-9.1	96.6	-504.1	-1114.5	-149.7
8	ok 2482	0.13	0.2	1.37e-02	7.7	7.7	7.7	7.7	180.6	5.0	99.9	-431.5	-1139.3	-82.1
8	ok 2483	0.13	0.2	1.03e-02	7.7	7.7	7.7	7.7	182.1	25.1	71.3	-403.8	-1156.7	-101.8
8	ok 2484	0.13	0.2	8.26e-03	7.7	7.7	7.7	7.7	187.1	33.9	84.5	-422.0	-1163.8	-99.5
8	ok 2485	0.13	0.2	8.53e-03	7.7	7.7	7.7	7.7	178.5	41.0	98.7	-478.7	-1157.3	-60.3
8	ok 2486	0.13	0.2	1.02e-02	7.7	7.7	7.7	7.7	172.9	91.5	34.8	-715.7	-1116.3	348.6
8	ok 2487	0.13	0.4	1.15e-02	7.7	7.7	7.7	7.7	209.9	118.6	85.5	-1323.1	-936.7	1046.0
8	ok 2488	0.13	0.3	5.99e-03	7.7	7.7	7.7	7.7	215.4	132.5	82.1	35.5	221.0	430.9
8	ok 2489	0.13	0.2	3.97e-02	7.7	7.7	7.7	7.7	63.4	-48.1	30.2	-439.7	-631.9	-649.1
8	ok 2490	0.13	0.4	0.1	7.7	7.7	7.7	7.7	-65.9	-428.0	39.4	2475.7	3173.1	401.1
8	ok 2492	0.13	0.5	0.1	7.7	7.7	7.7	7.7	-90.6	67.2	95.2	1674.4	-364.6	735.6
8	ok 2493	0.13	0.4	5.28e-02	7.7	7.7	7.7	7.7	60.4	-40.3	170.8	905.8	2510.1	9.6
8	ok 2494	0.13	0.5	3.51e-02	7.7	7.7	7.7	7.7	163.2	-79.9	147.9	511.9	3627.5	92.8
8	ok 2495	0.13	0.6	2.39e-02	7.7	7.7	7.7	7.7	136.2	-34.1	104.8	646.9	4171.3	59.1
8	ok 2496	0.13	0.6	1.46e-02	7.7	7.7	7.7	7.7	158.4	-12.0	91.6	720.2	4327.8	57.4
8	ok 2497	0.13	0.7	1.03e-02	7.7	7.7	7.7	7.7	173.3	7.2	78.3	720.9	4322.5	83.5
8	ok 2498	0.13	0.7	9.17e-03	7.7	7.7	7.7	7.7	180.5	24.3	66.3	708.9	4265.7	109.7
8	ok 2499	0.13	0.7	1.08e-02	7.7	7.7	7.7	7.7	257.8	58.5	70.4	629.0	4246.8	41.9
8	ok 2500	0.13	0.7	1.31e-02	7.7	7.7	7.7	7.7	248.0	81.7	83.7	520.1	3905.0	71.6
8	ok 2501	0.13	0.4	1.55e-02	7.7	7.7	7.7	7.7	239.8	89.0	88.9	-26.2	2301.5	178.1
8	ok 2502	0.13	0.4	2.38e-03	7.7	7.7	7.7	7.7	178.9	95.0	43.6	-1617.9	-431.5	-152.2
8	ok 2503	0.13	0.4	8.10e-02	7.7	7.7	7.7	7.7	-10.3	-335.0	45.9	2341.4	2822.9	-348.1
8	ok 2504	0.13	0.2	4.52e-02	7.7	7.7	7.7	7.7	76.0	-78.2	120.5	-461.6	-662.2	1041.4
8	ok 2505	0.13	0.2	2.88e-02	7.7	7.7	7.7	7.7	99.3	-32.6	84.4	-698.3	-898.1	368.3
8	ok 2506	0.13	0.2	1.93e-02	7.7	7.7	7.7	7.7	175.9	-58.3	30.2	-481.3	-963.2	204.5
8	ok 2507	0.13	0.2	1.13e-02	7.7	7.7	7.7	7.7	186.7	-27.7	11.2	-410.0	-1014.4	144.5
8	ok 2508	0.13	0.2	5.31e-03	7.7	7.7	7.7	7.7	192.7	-1.4	-7.3	-387.1	-1039.1	131.8
8	ok 2509	0.13	0.2	2.32e-03	7.7	7.7	7.7	7.7	192.3	18.5	-18.3	-408.5	-1051.7	127.3
8	ok 2510	0.13	0.2	2.90e-03	7.7	7.7	7.7	7.7	185.7	54.5	-34.6	-485.8	-1043.3	85.7
8	ok 2511	0.13	0.3	2.25e-03	7.7	7.7	7.7	7.7	228.7	87.3	31.6	-735.6	-1063.5	-315.8
8	ok 2512	0.13	0.4	3.14e-03	7.7	7.7	7.7	7.7	162.4	60.8	45.8	-1272.7	-1024.6	-961.8
8	ok 2513	0.13	0.2	6.68e-03	7.7	7.7	7.7	7.7	163.7	1.3	-56.2	-410.5	-168.0	-262.4
8	ok 2514	0.13	0.4	4.89e-02	7.7	7.7	7.7	7.7	26.9	-28.7	29.1	2822.5	-336.1	-160.6
8	ok 2515	0.13	0.2	3.54e-02	7.7	7.7	7.7	7.7	67.5	-38.2	65.7	-636.1	-1323.7	229.0
8	ok 2516	0.13	0.3	2.58e-02	7.7	7.7	7.7	7.7	100.5	-26.1	63.2	-1190.2	-2175.9	100.3

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 2517	0.13	0.4	1.61e-02	7.7	7.7	7.7	7.7	122.5	-6.1	59.6	-903.4	-2567.1	57.3
8	ok 2518	0.13	0.4	8.64e-03	7.7	7.7	7.7	7.7	141.6	10.6	57.3	-716.5	-2647.6	49.0
8	ok 2519	0.13	0.4	4.06e-03	7.7	7.7	7.7	7.7	226.1	33.0	42.6	-743.7	-2605.5	10.1
8	ok 2520	0.13	0.4	1.12e-03	7.7	7.7	7.7	7.7	162.8	34.3	53.9	-688.9	-2667.4	43.4
8	ok 2521	0.13	0.4	3.14e-03	7.7	7.7	7.7	7.7	164.9	41.3	52.4	-841.4	-2657.1	51.6
8	ok 2522	0.13	0.4	4.69e-03	7.7	7.7	7.7	7.7	162.2	45.0	51.5	-1230.0	-2416.6	91.3
8	ok 2523	0.13	0.4	7.16e-03	7.7	7.7	7.7	7.7	166.2	7.5	-24.9	-1790.5	-1336.7	148.8
8	ok 2524	0.13	0.3	1.40e-02	7.7	7.7	7.7	7.7	146.5	-21.3	-21.4	276.1	-5.2	68.5
8	ok 2525	0.13	0.2	2.06e-02	7.7	7.7	7.7	7.7	99.4	-28.6	34.7	-732.9	-988.9	-410.7
8	ok 2526	0.13	0.2	1.30e-02	7.7	7.7	7.7	7.7	125.0	33.9	46.9	-505.1	-1089.9	-214.1
8	ok 2527	0.13	0.2	6.39e-03	7.7	7.7	7.7	7.7	161.1	35.3	85.4	-430.3	-1120.2	-109.7
8	ok 2528	0.13	0.2	3.20e-03	7.7	7.7	7.7	7.7	175.2	52.5	97.1	-411.9	-1123.7	-100.3
8	ok 2529	0.13	0.2	2.74e-03	7.7	7.7	7.7	7.7	182.9	50.6	102.7	-423.1	-1130.7	-94.2
8	ok 2530	0.13	0.2	5.21e-03	7.7	7.7	7.7	7.7	179.0	63.2	116.7	-476.0	-1112.9	-48.1
8	ok 2531	0.13	0.2	7.95e-03	7.7	7.7	7.7	7.7	164.1	42.9	55.7	-658.6	-1033.4	351.8
8	ok 2532	0.13	0.4	1.15e-02	7.7	7.7	7.7	7.7	157.3	56.6	69.1	-1176.5	-1012.5	1078.7
8	ok 2533	0.13	0.3	1.50e-02	7.7	7.7	7.7	7.7	162.0	-17.2	-7.8	-526.2	-183.3	321.0
8	ok 2534	0.13	0.3	2.89e-02	7.7	7.7	7.7	7.7	35.5	-67.8	-56.6	-1112.4	57.5	-472.3
8	ok 2535	0.13	0.5	9.04e-02	7.7	7.7	7.7	7.7	74.8	-214.8	-6.7	3010.3	3609.8	392.8
8	ok 2536	0.13	0.3	2.89e-02	7.7	7.7	7.7	7.7	-62.6	51.1	78.7	2555.4	658.3	146.0
8	ok 2537	0.13	0.3	4.49e-02	7.7	7.7	7.7	7.7	137.8	-112.7	-84.7	-695.5	1214.7	-435.1
8	ok 2538	0.13	0.5	3.00e-02	7.7	7.7	7.7	7.7	184.7	-43.0	117.3	464.8	3639.3	63.8
8	ok 2539	0.13	0.6	2.08e-02	7.7	7.7	7.7	7.7	218.8	-15.3	89.5	625.6	4288.8	38.4
8	ok 2540	0.13	0.7	1.48e-02	7.7	7.7	7.7	7.7	171.7	17.9	39.1	723.4	4348.5	-72.4
8	ok 2541	0.13	0.7	9.72e-03	7.7	7.7	7.7	7.7	184.1	39.9	23.8	731.5	4395.1	-51.9
8	ok 2542	0.13	0.7	5.36e-03	7.7	7.7	7.7	7.7	187.9	60.8	10.1	733.6	4396.3	-26.7
8	ok 2543	0.13	0.7	7.96e-03	7.7	7.7	7.7	7.7	181.9	36.8	56.7	716.3	4303.6	55.5
8	ok 2544	0.13	0.7	1.17e-02	7.7	7.7	7.7	7.7	171.8	43.3	61.1	653.3	3930.7	126.5
8	ok 2545	0.13	0.4	1.51e-02	7.7	7.7	7.7	7.7	173.7	43.3	67.2	398.1	2386.5	393.4
8	ok 2546	0.13	0.4	8.09e-03	7.7	7.7	7.7	7.7	176.2	71.0	57.5	-1705.6	-337.7	193.0
8	ok 2547	0.13	0.5	6.74e-02	7.7	7.7	7.7	7.7	74.6	-74.8	106.7	2957.5	3303.3	-357.6
8	ok 2548	0.13	0.2	3.93e-02	7.7	7.7	7.7	7.7	115.2	-42.7	113.6	-609.8	-262.0	676.1
8	ok 2549	0.13	0.2	2.40e-02	7.7	7.7	7.7	7.7	153.3	-24.4	84.5	-705.3	-857.3	458.4
8	ok 2550	0.13	0.1	1.60e-02	7.7	7.7	7.7	7.7	143.1	-40.4	21.4	-456.3	-884.0	199.0
8	ok 2551	0.13	0.2	1.11e-02	7.7	7.7	7.7	7.7	163.3	-13.3	-5.9	-407.4	-988.3	128.9
8	ok 2552	0.13	0.2	7.03e-03	7.7	7.7	7.7	7.7	191.6	8.5	-19.2	-390.2	-1007.1	118.6
8	ok 2553	0.13	0.2	3.69e-03	7.7	7.7	7.7	7.7	194.8	26.6	-36.9	-401.5	-1019.2	119.0
8	ok 2554	0.13	0.2	1.18e-03	7.7	7.7	7.7	7.7	190.2	62.9	-52.7	-478.6	-1004.5	78.7
8	ok 2555	0.13	0.2	3.29e-03	7.7	7.7	7.7	7.7	221.3	83.0	11.1	-704.0	-990.9	-335.2
8	ok 2556	0.13	0.4	6.16e-03	7.7	7.7	7.7	7.7	200.1	97.6	3.2	-1216.5	-891.1	-1048.2
8	ok 2557	0.13	0.2	1.04e-02	7.7	7.7	7.7	7.7	157.7	102.0	-1.8	323.6	182.8	-418.3
8	ok 2558	0.13	0.4	5.79e-02	7.7	7.7	7.7	7.7	36.9	-47.7	83.7	3026.9	457.0	-147.3
8	ok 2559	0.13	0.3	3.70e-02	7.7	7.7	7.7	7.7	100.8	-61.4	72.0	-858.2	-1337.7	-133.7
8	ok 2560	0.13	0.3	1.79e-02	7.7	7.7	7.7	7.7	103.0	5.1	18.7	-1185.9	-2200.3	-43.4
8	ok 2561	0.13	0.4	1.16e-02	7.7	7.7	7.7	7.7	179.9	16.9	32.3	-960.9	-2522.5	26.1
8	ok 2562	0.13	0.4	8.07e-03	7.7	7.7	7.7	7.7	209.8	32.6	24.3	-795.2	-2612.6	10.5
8	ok 2563	0.13	0.4	5.16e-03	7.7	7.7	7.7	7.7	227.7	46.1	19.8	-748.8	-2623.1	8.9
8	ok 2564	0.13	0.4	2.65e-03	7.7	7.7	7.7	7.7	234.4	57.8	17.6	-769.7	-2634.8	11.6
8	ok 2565	0.13	0.4	1.73e-03	7.7	7.7	7.7	7.7	231.1	67.8	17.2	-910.0	-2611.4	19.9
8	ok 2566	0.13	0.4	4.62e-03	7.7	7.7	7.7	7.7	218.3	77.2	18.1	-1291.7	-2344.7	-49.9
8	ok 2567	0.13	0.4	7.95e-03	7.7	7.7	7.7	7.7	163.8	7.0	-43.5	-1740.1	-1304.3	-89.2
8	ok 2568	0.13	0.3	1.37e-02	7.7	7.7	7.7	7.7	143.8	-25.6	-44.4	387.9	59.4	-62.1
8	ok 2569	0.13	0.2	1.45e-02	7.7	7.7	7.7	7.7	155.0	44.8	51.9	-663.3	-1064.3	-344.3
8	ok 2570	0.13	0.2	8.73e-03	7.7	7.7	7.7	7.7	183.4	50.8	53.9	-518.1	-1150.7	-172.2
8	ok 2571	0.13	0.2	6.49e-03	7.7	7.7	7.7	7.7	198.8	56.2	62.8	-433.0	-1163.7	-106.1
8	ok 2572	0.13	0.2	4.35e-03	7.7	7.7	7.7	7.7	184.3	58.2	50.3	-409.5	-1188.3	-114.6
8	ok 2573	0.13	0.2	2.42e-03	7.7	7.7	7.7	7.7	173.5	34.9	63.2	-430.7	-1198.8	-110.2
8	ok 2574	0.13	0.2	2.86e-03	7.7	7.7	7.7	7.7	172.6	32.3	77.4	-490.8	-1195.0	-66.5
8	ok 2575	0.13	0.2	6.79e-03	7.7	7.7	7.7	7.7	169.2	86.0	9.9	-721.7	-1131.6	339.7
8	ok 2576	0.13	0.4	1.11e-02	7.7	7.7	7.7	7.7	200.9	84.1	42.7	-1297.8	-884.0	997.1
8	ok 2577	0.13	0.2	1.35e-02	7.7	7.7	7.7	7.7	202.6	81.6	36.7	367.3	315.7	363.3
8	ok 2578	0.13	0.3	2.24e-02	7.7	7.7	7.7	7.7	73.1	2.2	2.1	-439.5	-708.4	-664.2
8	ok 2579	0.13	0.4	9.49e-02	7.7	7.7	7.7	7.7	-42.6	-344.7	18.4	2104.7	2790.0	435.5
8	ok 2581	0.13	0.5	8.69e-02	7.7	7.7	7.7	7.7	-78.1	107.5	41.8	1653.9	-426.6	879.2
8	ok 2582	0.13	0.4	4.19e-02	7.7	7.7	7.7	7.7	69.8	28.3	130.6	935.6	2421.2	10.0
8	ok 2583	0.13	0.6	1.99e-02	7.7	7.7	7.7	7.7	172.4	-12.3	112.7	489.9	3507.7	66.2
8	ok 2584	0.13	0.6	1.05e-02	7.7	7.7	7.7	7.7	143.0	-2.2	77.1	662.7	4059.1	-27.0
8	ok 2585	0.13	0.7	6.92e-03	7.7	7.7	7.7	7.7	164.8	9.6	61.6	704.4	4243.8	-42.7
8	ok 2586	0.13	0.7	4.98e-03	7.7	7.7	7.7	7.7	178.3	20.9	44.0	710.6	4273.6	39.8
8	ok 2587	0.13	0.7	3.28e-03	7.7	7.7	7.7	7.7	183.8	31.5	30.9	702.5	4236.6	64.9
8	ok 2588	0.13	0.7	5.40e-03	7.7	7.7	7.7	7.7	257.0	58.2	-3.8	622.8	4219.1	-42.1
8	ok 2589	0.13	0.6	1.02e-02	7.7	7.7	7.7	7.7	243.2	69.9	-16.0	497.8	3816.7	-76.7
8	ok 2590	0.13	0.4	1.52e-02	7.7	7.7	7.7	7.7	186.0	33.8	12.0	96.9	1958.6	-373.9
8	ok 2591	0.13	0.3	7.92e-03	7.7	7.7	7.7	7.7	163.9	82.6	9.7	-1393.9	-418.3	-145.2

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 2592	0.13	0.4	5.17e-02	7.7	7.7	7.7	7.7	-21.5	-230.5	42.0	2289.3	2719.1	-422.6
8	ok 2593	0.13	0.2	2.75e-02	7.7	7.7	7.7	7.7	76.7	7.0	69.2	-447.1	-748.5	1061.7
8	ok 2594	0.13	0.2	1.38e-02	7.7	7.7	7.7	7.7	103.8	6.9	52.5	-712.2	-954.5	341.1
8	ok 2595	0.13	0.2	7.54e-03	7.7	7.7	7.7	7.7	185.6	-33.8	-6.7	-492.0	-1002.9	182.7
8	ok 2596	0.13	0.2	4.59e-03	7.7	7.7	7.7	7.7	195.8	-9.6	-28.2	-418.2	-1046.4	122.3
8	ok 2597	0.13	0.2	1.71e-03	7.7	7.7	7.7	7.7	200.4	14.5	-49.4	-396.9	-1060.9	110.0
8	ok 2598	0.13	0.2	0.0	7.7	7.7	7.7	7.7	192.6	15.8	-47.8	-411.9	-1077.1	79.9
8	ok 2599	0.13	0.2	1.38e-03	7.7	7.7	7.7	7.7	195.3	66.0	-68.2	-474.3	-1050.1	55.3
8	ok 2600	0.13	0.2	3.62e-03	7.7	7.7	7.7	7.7	222.8	76.8	-1.8	-740.0	-1065.4	-365.4
8	ok 2601	0.13	0.4	6.02e-03	7.7	7.7	7.7	7.7	155.5	53.6	12.4	-1221.8	-980.0	-989.0
8	ok 2602	0.13	0.2	1.06e-02	7.7	7.7	7.7	7.7	158.7	50.0	18.6	255.4	150.5	-372.8
8	ok 2603	0.13	0.4	2.12e-02	7.7	7.7	7.7	7.7	23.0	67.9	-7.1	2859.6	-319.8	-180.2
8	ok 2604	0.13	0.2	2.00e-02	7.7	7.7	7.7	7.7	70.3	9.9	30.0	-645.5	-1355.5	190.4
8	ok 2605	0.13	0.3	1.13e-02	7.7	7.7	7.7	7.7	104.4	12.6	29.3	-1193.3	-2208.2	74.8
8	ok 2606	0.13	0.4	6.29e-03	7.7	7.7	7.7	7.7	186.5	37.7	14.7	-965.2	-2543.4	-33.8
8	ok 2607	0.13	0.4	3.51e-03	7.7	7.7	7.7	7.7	214.4	46.8	11.6	-799.3	-2631.6	-18.0
8	ok 2608	0.13	0.4	8.81e-04	7.7	7.7	7.7	7.7	230.7	54.8	9.2	-753.2	-2639.9	-15.8
8	ok 2609	0.13	0.4	0.0	7.7	7.7	7.7	7.7	235.8	61.8	8.0	-775.5	-2648.3	-17.9
8	ok 2610	0.13	0.4	1.48e-03	7.7	7.7	7.7	7.7	230.7	67.7	7.4	-918.4	-2617.8	-25.7
8	ok 2611	0.13	0.4	4.83e-03	7.7	7.7	7.7	7.7	160.1	46.7	19.8	-1235.3	-2398.2	71.7
8	ok 2612	0.13	0.4	9.13e-03	7.7	7.7	7.7	7.7	146.2	47.1	20.5	-1621.3	-1388.7	116.6
8	ok 2613	0.13	0.3	1.70e-02	7.7	7.7	7.7	7.7	131.3	21.0	22.8	1382.8	258.5	80.9
8	ok 2614	0.13	0.2	1.04e-02	7.7	7.7	7.7	7.7	105.2	8.6	1.3	-721.6	-990.4	-425.2
8	ok 2615	0.13	0.2	6.19e-03	7.7	7.7	7.7	7.7	125.9	83.2	21.7	-494.4	-1105.6	-216.4
8	ok 2616	0.13	0.2	3.26e-03	7.7	7.7	7.7	7.7	162.6	75.0	32.4	-437.5	-1142.6	-106.8
8	ok 2617	0.13	0.2	6.79e-04	7.7	7.7	7.7	7.7	175.3	73.2	46.1	-419.5	-1148.3	-96.0
8	ok 2618	0.13	0.2	0.0	7.7	7.7	7.7	7.7	180.8	50.7	54.3	-431.8	-1158.8	-84.0
8	ok 2619	0.13	0.2	3.80e-03	7.7	7.7	7.7	7.7	173.2	53.5	69.7	-487.1	-1141.5	-32.2
8	ok 2620	0.13	0.2	8.34e-03	7.7	7.7	7.7	7.7	219.2	68.8	24.5	-724.6	-1021.2	339.5
8	ok 2621	0.13	0.4	1.33e-02	7.7	7.7	7.7	7.7	151.1	41.1	32.5	-1146.9	-944.2	1056.1
8	ok 2622	0.13	0.2	1.80e-02	7.7	7.7	7.7	7.7	158.8	23.0	33.6	254.4	146.3	455.5
8	ok 2623	0.13	0.3	2.13e-02	7.7	7.7	7.7	7.7	113.1	-2.9	-23.5	-617.6	-338.6	-717.3
8	ok 2624	0.13	0.5	7.57e-02	7.7	7.7	7.7	7.7	82.9	-167.9	-32.6	2705.2	3313.1	406.7
8	ok 2625	0.13	0.3	2.26e-02	7.7	7.7	7.7	7.7	-48.5	95.2	104.4	2364.5	559.0	162.9
8	ok 2626	0.13	0.3	2.95e-02	7.7	7.7	7.7	7.7	143.4	-77.8	-97.7	-1091.4	1253.6	-393.3
8	ok 2627	0.13	0.6	1.48e-02	7.7	7.7	7.7	7.7	136.5	18.9	27.0	503.8	3484.7	79.7
8	ok 2628	0.13	0.6	1.03e-02	7.7	7.7	7.7	7.7	220.3	17.8	-35.5	609.1	4187.5	-53.3
8	ok 2629	0.13	0.7	6.77e-03	7.7	7.7	7.7	7.7	172.7	36.6	8.9	713.2	4297.2	-91.7
8	ok 2630	0.13	0.7	4.04e-03	7.7	7.7	7.7	7.7	184.3	48.9	-4.5	723.0	4352.5	-71.5
8	ok 2631	0.13	0.7	1.84e-03	7.7	7.7	7.7	7.7	187.1	61.1	-16.3	726.6	4362.7	-46.9
8	ok 2632	0.13	0.7	7.26e-03	7.7	7.7	7.7	7.7	181.2	73.4	-24.8	712.6	4279.5	-48.8
8	ok 2633	0.13	0.6	1.27e-02	7.7	7.7	7.7	7.7	170.1	44.7	35.2	628.7	3852.3	106.2
8	ok 2634	0.13	0.4	1.76e-02	7.7	7.7	7.7	7.7	166.7	29.0	37.1	261.6	2186.3	399.3
8	ok 2635	0.13	0.3	1.20e-02	7.7	7.7	7.7	7.7	154.3	49.9	26.2	-1337.0	-316.4	186.2
8	ok 2636	0.13	0.5	4.51e-02	7.7	7.7	7.7	7.7	75.9	8.5	99.5	2868.9	3131.2	-337.8
8	ok 2637	0.13	0.2	2.16e-02	7.7	7.7	7.7	7.7	90.2	9.9	31.2	-626.3	-388.9	680.8
8	ok 2638	0.13	0.2	1.02e-02	7.7	7.7	7.7	7.7	113.7	25.0	10.2	-691.8	-975.5	423.2
8	ok 2639	0.13	0.2	6.05e-03	7.7	7.7	7.7	7.7	145.9	-11.3	-27.5	-462.5	-919.8	178.8
8	ok 2640	0.13	0.2	3.71e-03	7.7	7.7	7.7	7.7	189.6	11.5	-46.5	-414.6	-964.1	107.8
8	ok 2641	0.13	0.2	1.92e-03	7.7	7.7	7.7	7.7	199.0	22.6	-58.7	-398.6	-986.9	89.0
8	ok 2642	0.13	0.2	3.24e-04	7.7	7.7	7.7	7.7	200.7	55.0	-72.0	-411.2	-1046.4	98.3
8	ok 2643	0.13	0.2	6.88e-04	7.7	7.7	7.7	7.7	194.7	66.7	-85.3	-492.0	-1026.9	54.9
8	ok 2644	0.13	0.2	2.86e-03	7.7	7.7	7.7	7.7	156.5	82.5	-19.4	-674.2	-1019.9	-384.9
8	ok 2645	0.13	0.4	6.18e-03	7.7	7.7	7.7	7.7	186.0	78.3	-20.9	-1138.1	-817.7	-1045.0
8	ok 2646	0.13	0.2	1.14e-02	7.7	7.7	7.7	7.7	148.0	77.4	-18.9	558.4	242.6	-391.3
8	ok 2647	0.13	0.4	4.05e-02	7.7	7.7	7.7	7.7	26.9	51.5	50.5	3015.5	401.5	-165.5
8	ok 2648	0.13	0.3	1.76e-02	7.7	7.7	7.7	7.7	108.4	25.2	16.9	-883.8	-1386.8	-164.5
8	ok 2649	0.13	0.3	7.34e-03	7.7	7.7	7.7	7.7	107.0	27.0	-10.2	-1193.4	-2204.1	-81.3
8	ok 2650	0.13	0.4	4.45e-03	7.7	7.7	7.7	7.7	183.0	43.6	-2.5	-961.5	-2530.4	-42.6
8	ok 2651	0.13	0.4	2.24e-03	7.7	7.7	7.7	7.7	210.0	48.3	-6.1	-790.8	-2621.9	-35.3
8	ok 2652	0.13	0.4	1.00e-03	7.7	7.7	7.7	7.7	225.0	53.3	-6.6	-745.4	-2630.5	-30.3
8	ok 2653	0.13	0.4	0.0	7.7	7.7	7.7	7.7	228.8	58.7	-5.0	-771.2	-2638.4	-28.3
8	ok 2654	0.13	0.4	1.62e-03	7.7	7.7	7.7	7.7	222.2	64.4	-1.9	-919.5	-2603.8	-36.1
8	ok 2655	0.13	0.4	4.46e-03	7.7	7.7	7.7	7.7	205.8	71.4	1.5	-1291.4	-2306.2	-77.8
8	ok 2656	0.13	0.3	8.38e-03	7.7	7.7	7.7	7.7	177.3	82.1	2.8	-1539.5	-1283.5	-122.3
8	ok 2657	0.13	0.3	1.40e-02	7.7	7.7	7.7	7.7	152.6	55.1	-9.0	1670.6	346.7	51.7
8	ok 2658	0.13	0.2	1.22e-02	7.7	7.7	7.7	7.7	109.4	32.4	-31.7	-671.5	-1022.6	-379.0
8	ok 2659	0.13	0.2	6.82e-03	7.7	7.7	7.7	7.7	183.9	84.5	-2.6	-508.3	-1144.9	-148.9
8	ok 2660	0.13	0.2	2.75e-03	7.7	7.7	7.7	7.7	165.1	75.3	9.8	-431.7	-1162.9	-90.9
8	ok 2661	0.13	0.2	1.36e-03	7.7	7.7	7.7	7.7	160.8	61.8	45.1	-408.1	-1187.9	-103.5
8	ok 2662	0.13	0.2	5.05e-04	7.7	7.7	7.7	7.7	165.7	29.5	61.7	-433.4	-1201.6	-96.5
8	ok 2663	0.13	0.2	3.92e-03	7.7	7.7	7.7	7.7	161.9	23.3	78.6	-507.5	-1208.6	-39.2
8	ok 2664	0.13	0.2	8.47e-03	7.7	7.7	7.7	7.7	216.2	61.0	14.9	-775.0	-1108.4	366.5
8	ok 2665	0.13	0.4	1.23e-02	7.7	7.7	7.7	7.7	141.6	78.8	3.6	-1185.8	-822.2	953.8

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 2666	0.13	0.3	1.44e-02	7.7	7.7	7.7	7.7	141.8	77.0	-2.3	913.6	432.7	319.5
8	ok 2667	0.13	0.2	1.55e-02	7.7	7.7	7.7	7.7	90.6	26.0	-19.4	-447.8	-701.4	-702.1
8	ok 2668	0.13	0.6	7.25e-02	7.7	7.7	7.7	7.7	-4.6	-261.3	-6.2	1940.7	2592.5	285.7
8	ok 2670	0.13	0.5	6.64e-02	7.7	7.7	7.7	7.7	-51.4	162.0	17.5	1553.1	-448.3	746.8
8	ok 2671	0.13	0.4	2.92e-02	7.7	7.7	7.7	7.7	81.7	69.7	75.0	828.3	2274.9	24.2
8	ok 2672	0.13	0.6	1.29e-02	7.7	7.7	7.7	7.7	123.9	33.0	-62.5	546.5	3381.3	-79.1
8	ok 2673	0.13	0.6	8.88e-03	7.7	7.7	7.7	7.7	152.1	35.8	-51.9	631.5	4062.5	-37.7
8	ok 2674	0.13	0.6	4.99e-03	7.7	7.7	7.7	7.7	164.0	24.6	26.0	699.8	4217.7	-66.2
8	ok 2675	0.13	0.6	3.28e-03	7.7	7.7	7.7	7.7	179.8	46.7	-29.4	709.3	4264.0	-64.6
8	ok 2676	0.13	0.7	4.32e-03	7.7	7.7	7.7	7.7	182.1	53.4	-15.6	700.0	4224.2	-93.8
8	ok 2677	0.13	0.6	7.31e-03	7.7	7.7	7.7	7.7	246.9	44.4	-33.2	613.8	4183.7	-74.8
8	ok 2678	0.13	0.6	1.27e-02	7.7	7.7	7.7	7.7	229.3	51.3	-44.9	452.2	3668.3	-118.0
8	ok 2679	0.13	0.3	1.80e-02	7.7	7.7	7.7	7.7	210.9	55.9	-62.5	-385.7	1555.6	-325.3
8	ok 2680	0.13	0.2	1.13e-02	7.7	7.7	7.7	7.7	115.9	112.4	21.0	-494.1	-460.2	141.7
8	ok 2681	0.13	0.3	2.82e-02	7.7	7.7	7.7	7.7	-36.3	-126.1	28.9	2216.4	2441.0	-450.7
8	ok 2682	0.13	0.3	1.52e-02	7.7	7.7	7.7	7.7	84.6	70.3	19.3	-523.0	-747.6	1026.8
8	ok 2683	0.13	0.2	6.03e-03	7.7	7.7	7.7	7.7	104.0	36.2	12.8	-685.4	-1061.6	364.2
8	ok 2684	0.13	0.2	3.65e-03	7.7	7.7	7.7	7.7	185.1	-5.1	-43.5	-513.4	-1070.7	189.6
8	ok 2685	0.13	0.2	2.56e-03	7.7	7.7	7.7	7.7	192.1	8.4	-59.6	-440.7	-1120.7	120.6
8	ok 2686	0.13	0.2	1.58e-03	7.7	7.7	7.7	7.7	192.7	22.3	-68.7	-424.4	-1149.3	92.6
8	ok 2687	0.13	0.2	2.16e-03	7.7	7.7	7.7	7.7	191.4	51.0	-83.2	-434.1	-1154.9	78.1
8	ok 2688	0.13	0.2	3.16e-03	7.7	7.7	7.7	7.7	216.0	52.1	-21.5	-528.3	-1034.9	-141.9
8	ok 2689	0.13	0.2	4.08e-03	7.7	7.7	7.7	7.7	198.8	56.8	-26.0	-764.5	-1090.4	-446.8
8	ok 2690	0.13	0.3	5.98e-03	7.7	7.7	7.7	7.7	134.9	44.5	-16.9	-1123.2	-852.8	-949.5
8	ok 2691	0.13	0.3	1.00e-02	7.7	7.7	7.7	7.7	165.7	73.9	-12.7	1120.5	489.3	-232.3
8	ok 2692	0.13	0.5	1.79e-02	7.7	7.7	7.7	7.7	29.5	113.8	-7.9	3005.3	98.2	-146.9
8	ok 2693	0.13	0.2	7.98e-03	7.7	7.7	7.7	7.7	72.3	46.7	-5.1	-639.9	-1375.9	135.9
8	ok 2694	0.13	0.3	5.44e-03	7.7	7.7	7.7	7.7	137.3	54.7	-17.3	-1240.3	-2195.7	-94.5
8	ok 2695	0.13	0.4	3.49e-03	7.7	7.7	7.7	7.7	175.9	54.5	-22.2	-995.1	-2664.4	-34.3
8	ok 2696	0.13	0.4	1.94e-03	7.7	7.7	7.7	7.7	198.2	51.4	-20.1	-835.6	-2773.7	-20.0
8	ok 2697	0.13	0.4	6.52e-04	7.7	7.7	7.7	7.7	209.5	50.4	-18.3	-795.4	-2789.5	-17.2
8	ok 2698	0.13	0.4	1.96e-03	7.7	7.7	7.7	7.7	210.1	51.1	-16.5	-829.4	-2788.5	-20.3
8	ok 2699	0.13	0.4	3.81e-03	7.7	7.7	7.7	7.7	200.9	52.9	-14.8	-987.2	-2711.7	-32.0
8	ok 2700	0.13	0.4	5.75e-03	7.7	7.7	7.7	7.7	178.4	57.8	-7.4	-1319.5	-2311.6	-86.6
8	ok 2701	0.13	0.3	9.57e-03	7.7	7.7	7.7	7.7	118.8	43.7	-1.6	-1371.4	-1275.9	99.2
8	ok 2702	0.13	0.4	1.60e-02	7.7	7.7	7.7	7.7	106.7	83.7	-12.8	2256.6	510.9	118.2
8	ok 2703	0.13	0.2	8.90e-03	7.7	7.7	7.7	7.7	144.8	52.1	-57.5	-748.0	-1056.9	-499.1
8	ok 2704	0.13	0.2	6.05e-03	7.7	7.7	7.7	7.7	126.7	78.2	-16.8	-546.1	-1298.8	-161.5
8	ok 2705	0.13	0.2	2.15e-03	7.7	7.7	7.7	7.7	140.8	64.9	0.3	-492.7	-1356.7	-94.9
8	ok 2706	0.13	0.2	8.47e-04	7.7	7.7	7.7	7.7	148.5	35.8	18.5	-476.9	-1376.8	-73.5
8	ok 2707	0.13	0.2	3.08e-03	7.7	7.7	7.7	7.7	147.7	33.3	36.7	-490.1	-1362.7	-54.1
8	ok 2708	0.13	0.2	5.86e-03	7.7	7.7	7.7	7.7	138.4	32.0	51.0	-555.4	-1325.4	45.2
8	ok 2709	0.13	0.2	9.93e-03	7.7	7.7	7.7	7.7	171.7	50.6	8.4	-791.0	-1157.1	430.0
8	ok 2710	0.13	0.3	1.41e-02	7.7	7.7	7.7	7.7	105.2	38.0	11.5	-977.6	-764.3	1016.2
8	ok 2711	0.13	0.3	1.79e-02	7.7	7.7	7.7	7.7	93.3	81.9	3.7	1825.6	405.0	222.9
8	ok 2712	0.13	0.2	1.53e-02	7.7	7.7	7.7	7.7	105.9	62.5	-62.1	-559.8	-435.8	-765.8
8	ok 2713	0.13	0.4	5.05e-02	7.7	7.7	7.7	7.7	74.0	-89.0	-23.2	2598.9	2772.9	284.4
8	ok 2714	0.13	0.3	2.12e-02	7.7	7.7	7.7	7.7	-50.1	136.1	84.8	2151.0	448.3	94.3
8	ok 2715	0.13	0.3	2.20e-02	7.7	7.7	7.7	7.7	119.3	-21.9	-73.6	-957.3	1189.0	-447.1
8	ok 2716	0.13	0.5	1.60e-02	7.7	7.7	7.7	7.7	109.1	26.8	-36.1	484.6	3312.1	-163.2
8	ok 2717	0.13	0.6	1.11e-02	7.7	7.7	7.7	7.7	126.3	27.5	-28.1	653.5	3955.0	-66.9
8	ok 2718	0.13	0.6	6.97e-03	7.7	7.7	7.7	7.7	140.0	27.5	-18.6	689.4	4106.7	-41.7
8	ok 2719	0.13	0.6	5.51e-03	7.7	7.7	7.7	7.7	147.5	28.2	-6.9	690.6	4126.9	-50.8
8	ok 2720	0.13	0.6	5.81e-03	7.7	7.7	7.7	7.7	147.2	30.6	5.6	684.5	4100.1	-59.8
8	ok 2721	0.13	0.6	1.00e-02	7.7	7.7	7.7	7.7	142.7	33.9	10.5	659.1	3984.4	58.5
8	ok 2722	0.13	0.5	1.54e-02	7.7	7.7	7.7	7.7	127.4	35.7	20.9	540.4	3490.5	169.3
8	ok 2723	0.13	0.3	2.03e-02	7.7	7.7	7.7	7.7	103.2	31.4	30.8	179.2	1973.9	338.2
8	ok 2724	0.13	0.1	1.66e-02	7.7	7.7	7.7	7.7	57.5	46.6	23.8	-35.1	-149.4	200.8
8	ok 2725	0.13	0.4	2.76e-02	7.7	7.7	7.7	7.7	65.9	72.6	10.0	2593.9	2490.2	-281.7
8	ok 2726	0.13	0.2	1.51e-02	7.7	7.7	7.7	7.7	62.7	40.6	15.5	-589.9	-466.0	553.1
8	ok 2727	0.13	0.2	1.40e-02	7.7	7.7	7.7	7.7	81.3	44.9	4.5	-699.2	-1163.8	303.4
8	ok 2728	0.13	0.2	8.83e-03	7.7	7.7	7.7	7.7	139.3	48.3	9.1	-539.3	-1255.1	-13.3
8	ok 2729	0.13	0.2	6.80e-03	7.7	7.7	7.7	7.7	155.7	45.6	-4.4	-445.3	-1252.1	-55.7
8	ok 2730	0.13	0.2	5.95e-03	7.7	7.7	7.7	7.7	161.3	44.2	-11.6	-422.3	-1241.7	-65.5
8	ok 2731	0.13	0.2	5.36e-03	7.7	7.7	7.7	7.7	141.4	54.5	-107.4	-384.6	-1260.9	107.2
8	ok 2732	0.13	0.3	7.50e-03	7.7	7.7	7.7	7.7	130.2	57.8	-124.6	-445.4	-1226.6	122.9
8	ok 2733	0.13	0.2	1.17e-02	7.7	7.7	7.7	7.7	90.2	53.7	-42.0	-660.0	-1210.7	-328.3
8	ok 2734	0.13	0.2	1.43e-02	7.7	7.7	7.7	7.7	93.5	39.9	-44.9	-959.7	-710.1	-676.5
8	ok 2735	0.13	0.3	1.47e-02	7.7	7.7	7.7	7.7	97.2	21.8	-28.4	1762.0	638.1	-61.1
8	ok 2736	0.13	0.4	4.77e-02	7.7	7.7	7.7	7.7	33.9	57.2	15.5	2635.2	598.1	-199.3
8	ok 2737	0.13	0.3	2.11e-02	7.7	7.7	7.7	7.7	57.2	42.3	-2.4	-1046.9	-1549.8	-428.6
8	ok 2738	0.13	0.4	1.22e-02	7.7	7.7	7.7	7.7	67.0	55.1	-11.9	-1094.2	-2292.5	-181.3
8	ok 2739	0.13	0.4	8.69e-03	7.7	7.7	7.7	7.7	77.5	56.8	-18.4	-839.2	-2637.8	-104.6
8	ok 2740	0.13	0.4	8.41e-03	7.7	7.7	7.7	7.7	85.8	55.4	-23.5	-689.6	-2686.4	-81.2

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 2741	0.13	0.4	8.18e-03	7.7	7.7	7.7	7.7	89.8	55.1	-25.9	-635.9	-2668.2	-71.4
8	ok 2742	0.13	0.4	7.98e-03	7.7	7.7	7.7	7.7	87.8	58.5	-27.4	-639.5	-2652.7	-56.4
8	ok 2743	0.13	0.4	7.83e-03	7.7	7.7	7.7	7.7	109.2	55.4	-23.6	-770.6	-2534.0	72.5
8	ok 2744	0.13	0.4	9.60e-03	7.7	7.7	7.7	7.7	95.7	50.0	-33.7	-1036.3	-2183.2	243.9
8	ok 2745	0.13	0.3	1.33e-02	7.7	7.7	7.7	7.7	72.2	35.5	-32.4	-1116.1	-1164.4	463.7
8	ok 2746	0.13	0.4	1.75e-02	7.7	7.7	7.7	7.7	49.1	1.7	-17.3	2414.7	437.8	219.7
8	ok 2747	0.13	0.2	1.30e-02	7.7	7.7	7.7	7.7	75.1	75.7	62.3	-425.4	-1030.1	-526.5
8	ok 2748	0.13	0.2	1.06e-02	7.7	7.7	7.7	7.7	60.2	51.8	58.9	-289.5	-957.4	-212.0
8	ok 2749	0.13	0.1	1.15e-02	7.7	7.7	7.7	7.7	31.1	40.5	63.4	-219.7	-868.7	-96.1
8	ok 2750	0.13	0.1	1.19e-02	7.7	7.7	7.7	7.7	37.6	36.0	72.1	-246.0	-831.2	-42.8
8	ok 2751	0.13	0.1	1.15e-02	7.7	7.7	7.7	7.7	40.8	36.0	75.5	-266.8	-817.8	-33.2
8	ok 2752	0.13	0.1	1.08e-02	7.7	7.7	7.7	7.7	42.1	38.5	74.6	-290.4	-827.1	29.3
8	ok 2753	0.13	0.2	1.12e-02	7.7	7.7	7.7	7.7	62.0	51.3	-19.4	-417.2	-810.9	451.4
8	ok 2754	0.13	0.3	1.29e-02	7.7	7.7	7.7	7.7	48.7	30.5	-6.4	-572.0	-657.1	1089.5
8	ok 2755	0.13	0.2	1.60e-02	7.7	7.7	7.7	7.7	27.1	-3.9	4.0	1219.0	185.3	377.5
8	ok 2756	0.13	0.3	2.25e-02	7.7	7.7	7.7	7.7	71.4	54.5	52.8	-130.0	-786.7	-795.1
8	ok 2757	0.13	0.3	9.60e-02	7.7	7.7	7.7	7.7	-45.2	-389.4	-25.0	997.8	2184.0	-341.4
8	ok 2759	0.13	0.2	7.39e-02	7.7	7.7	7.7	7.7	149.6	-350.6	26.6	-50.8	309.2	-564.7
8	ok 2760	0.13	0.6	3.04e-02	7.7	7.7	7.7	7.7	193.9	120.2	-71.3	1374.3	3490.3	95.4
8	ok 2761	0.13	0.7	2.12e-02	7.7	7.7	7.7	7.7	65.6	55.6	-29.7	1072.2	4389.6	-160.4
8	ok 2762	0.13	0.8	1.62e-02	7.7	7.7	7.7	7.7	63.3	60.7	-18.6	958.8	4939.7	-64.2
8	ok 2763	0.13	0.8	1.71e-02	7.7	7.7	7.7	7.7	50.0	58.5	-20.2	920.1	5095.9	-28.2
8	ok 2764	0.13	0.8	1.56e-02	7.7	7.9	7.7	7.9	50.2	56.0	-29.1	934.5	5174.9	40.9
8	ok 2765	0.13	0.8	1.42e-02	7.7	8.1	7.7	8.1	67.5	55.6	-36.9	999.6	5230.8	35.8
8	ok 2766	0.13	0.8	1.23e-02	7.7	7.8	7.7	7.8	103.4	50.6	-30.0	1132.3	5209.3	53.1
8	ok 2767	0.13	0.7	1.36e-02	7.7	7.7	7.7	7.7	103.4	34.7	-2.7	1056.5	4630.9	127.5
8	ok 2768	0.13	0.4	1.58e-02	7.7	7.7	7.7	7.7	58.7	5.0	22.7	869.4	2764.7	234.9
8	ok 2769	0.13	8.28e-02	1.03e-02	7.7	7.7	7.7	7.7	17.4	11.4	26.8	-338.4	190.4	55.6

M_G	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
								-118.93	-519.60	-124.61	-2336.60	-3392.18	-1048.18
	0.22	0.86	0.14	24.25	21.36	33.21	28.28	407.64	1458.67	639.93	4682.59	6139.24	1513.38

L’armatura della soletta sp. 30 cm è costituita da una maglia base di 1ϕ14/20/20 inf / sup a cui si aggiungono ferri alternati con sezione variabile ove necessario.

2.15.4 STATI LIMITE D' ESERCIZIO

TABELLA STATI LIMITE D' ESERCIZIO

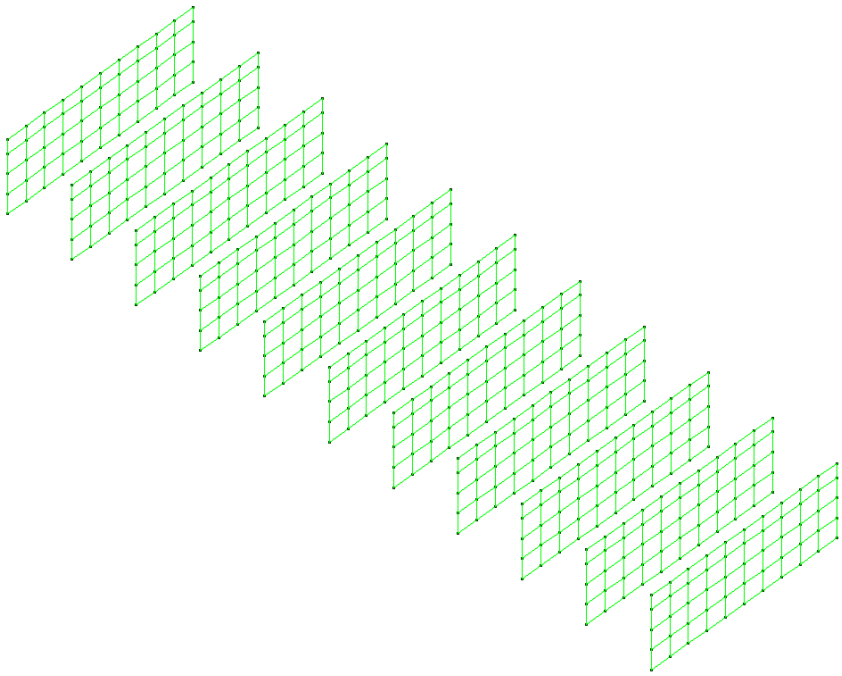
Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2162	0.06	0.63	0.0	100,97,0	0.16	0.0	0.0	97,0,0
2163	0.18	0.66	0.0	100,100,0	0.20	0.0	0.0	100,0,0
2164	0.25	0.65	0.0	100,98,0	0.0	0.0	0.0	0,0,0
2165	0.28	0.64	0.0	100,98,0	0.0	0.0	0.0	0,0,0
2166	0.29	0.64	0.0	100,98,0	0.16	0.0	0.0	100,0,0
2167	0.30	0.64	0.0	100,98,0	0.16	0.0	0.0	100,0,0
2168	0.30	0.64	0.0	100,98,0	0.15	0.0	0.0	100,0,0
2169	0.28	0.63	0.0	100,98,0	0.0	0.0	0.0	0,0,0
2170	0.24	0.55	0.0	100,98,0	0.0	0.0	0.0	0,0,0
2171	0.14	0.41	0.0	100,100,0	0.0	0.0	0.0	0,0,0
2172	0.14	0.64	0.0	95,97,0	0.17	0.0	0.0	97,0,0
2173	0.11	0.60	0.0	97,97,0	0.17	0.0	0.0	97,0,0
2174	0.14	0.64	0.0	95,95,0	0.18	0.0	0.0	95,0,0
2175	0.15	0.66	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2176	0.14	0.59	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2177	0.14	0.56	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2178	0.14	0.54	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2179	0.13	0.52	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2180	0.11	0.48	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2181	0.11	0.39	0.0	98,95,0	0.0	0.0	0.0	0,0,0
2182	0.14	0.61	0.0	95,95,0	0.18	0.0	0.0	95,0,0
2183	0.14	0.66	0.0	95,95,0	0.0	0.0	0.0	0,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2184	0.14	0.59	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2185	0.14	0.56	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2186	0.14	0.54	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2187	0.13	0.52	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2188	0.11	0.47	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2189	0.11	0.39	0.0	98,95,0	0.0	0.0	0.0	0,0,0
2190	0.11	0.59	0.0	97,97,0	0.17	0.0	0.0	95,0,0
2191	0.18	0.66	0.0	97,97,0	0.16	0.0	0.0	97,0,0
2192	0.15	0.65	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2193	0.17	0.70	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2194	0.18	0.72	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2195	0.18	0.72	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2196	0.18	0.72	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2197	0.18	0.71	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2198	0.16	0.67	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2199	0.08	0.53	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2200	0.11	0.61	0.0	97,95,0	0.0	0.0	0.0	0,0,0
2201	0.22	0.63	0.0	97,97,0	0.13	0.0	0.0	97,0,0
2202	0.11	0.61	0.0	97,97,0	0.17	0.0	0.0	95,0,0
2203	0.13	0.69	0.0	99,97,0	0.21	0.0	0.0	97,0,0
2204	0.17	0.70	0.0	97,97,0	0.21	0.0	0.0	97,0,0
2205	0.18	0.70	0.0	96,97,0	0.21	0.0	0.0	97,0,0
2206	0.18	0.68	0.0	96,97,0	0.21	0.0	0.0	97,0,0
2207	0.18	0.66	0.0	96,97,0	0.0	0.0	0.0	0,0,0
2208	0.18	0.64	0.0	96,97,0	0.0	0.0	0.0	0,0,0
2209	0.18	0.61	0.0	96,97,0	0.0	0.0	0.0	0,0,0
2210	0.16	0.51	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2211	0.08	0.52	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2212	0.16	0.58	0.0	97,97,0	0.15	0.0	0.0	97,0,0
2213	0.11	0.60	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2214	0.13	0.64	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2215	0.13	0.66	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2216	0.13	0.66	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2217	0.13	0.65	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2218	0.13	0.64	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2219	0.13	0.63	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2220	0.11	0.60	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2221	0.09	0.53	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2222	0.13	0.66	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2223	0.13	0.65	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2224	0.13	0.65	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2225	0.13	0.64	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2226	0.14	0.64	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2227	0.13	0.62	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2228	0.12	0.59	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2229	0.09	0.52	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2230	0.11	0.61	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2231	0.19	0.58	0.0	97,95,0	0.0	0.0	0.0	0,0,0
2232	0.20	0.63	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2233	0.20	0.67	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2234	0.20	0.69	0.0	96,97,0	0.0	0.0	0.0	0,0,0
2235	0.20	0.70	0.0	96,97,0	0.0	0.0	0.0	0,0,0
2236	0.20	0.70	0.0	97,97,0	0.20	0.0	0.0	97,0,0
2237	0.19	0.70	0.0	97,97,0	0.20	0.0	0.0	97,0,0
2238	0.18	0.71	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2239	0.11	0.68	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2240	0.16	0.51	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2241	0.24	0.55	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2242	0.08	0.47	0.0	98,95,0	0.0	0.0	0.0	0,0,0
2243	0.18	0.65	0.0	97,100,0	0.0	0.0	0.0	0,0,0
2244	0.20	0.70	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2245	0.20	0.70	0.0	97,97,0	0.20	0.0	0.0	97,0,0
2246	0.20	0.69	0.0	97,97,0	0.20	0.0	0.0	97,0,0
2247	0.20	0.69	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2248	0.20	0.68	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2249	0.19	0.66	0.0	97,95,0	0.0	0.0	0.0	0,0,0
2250	0.17	0.63	0.0	97,95,0	0.0	0.0	0.0	0,0,0
2251	0.08	0.65	0.0	95,97,0	0.0	0.0	0.0	0,0,0
2252	0.15	0.49	0.0	97,100,0	0.0	0.0	0.0	0,0,0
2253	0.11	0.48	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2254	0.12	0.54	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2255	0.13	0.59	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2256	0.13	0.62	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2257	0.13	0.64	0.0	98,97,0	0.0	0.0	0.0	0,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2258	0.13	0.65	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2259	0.13	0.65	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2260	0.11	0.66	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2261	0.08	0.63	0.0	95,97,0	0.0	0.0	0.0	0,0,0
2262	0.12	0.55	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2263	0.13	0.59	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2264	0.13	0.62	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2265	0.13	0.64	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2266	0.13	0.65	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2267	0.13	0.65	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2268	0.12	0.65	0.0	95,97,0	0.0	0.0	0.0	0,0,0
2269	0.09	0.61	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2270	0.10	0.48	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2271	0.19	0.46	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2272	0.20	0.59	0.0	97,98,0	0.0	0.0	0.0	0,0,0
2273	0.21	0.65	0.0	97,95,0	0.0	0.0	0.0	0,0,0
2274	0.21	0.68	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2275	0.20	0.71	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2276	0.20	0.71	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2277	0.20	0.70	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2278	0.18	0.72	0.0	100,97,0	0.20	0.0	0.0	97,0,0
2279	0.11	0.70	0.0	95,97,0	0.0	0.0	0.0	0,0,0
2280	0.17	0.43	0.0	100,98,0	0.0	0.0	0.0	0,0,0
2281	0.26	0.70	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2282	0.10	0.50	0.0	97,100,0	0.0	0.0	0.0	0,0,0
2283	0.19	0.61	0.0	97,100,0	0.0	0.0	0.0	0,0,0
2284	0.22	0.70	0.0	97,100,0	0.0	0.0	0.0	0,0,0
2285	0.21	0.69	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2286	0.21	0.69	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2287	0.21	0.68	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2288	0.20	0.68	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2289	0.20	0.64	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2290	0.18	0.63	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2291	0.10	0.66	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2292	0.14	0.41	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2293	0.10	0.39	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2294	0.12	0.45	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2295	0.13	0.50	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2296	0.12	0.54	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2297	0.12	0.57	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2298	0.12	0.60	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2299	0.12	0.62	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2300	0.11	0.64	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2301	0.08	0.63	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2302	0.12	0.45	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2303	0.13	0.50	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2304	0.12	0.54	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2305	0.12	0.58	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2306	0.12	0.60	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2307	0.12	0.62	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2308	0.11	0.62	0.0	100,97,0	0.0	0.0	0.0	0,0,0
2309	0.09	0.61	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2310	0.10	0.40	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2311	0.14	0.41	0.0	97,100,0	0.0	0.0	0.0	0,0,0
2312	0.20	0.46	0.0	97,99,0	0.0	0.0	0.0	0,0,0
2313	0.21	0.55	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2314	0.21	0.63	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2315	0.21	0.69	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2316	0.21	0.70	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2317	0.20	0.71	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2318	0.18	0.71	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2319	0.11	0.68	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2320	0.16	0.33	0.0	97,99,0	0.0	0.0	0.0	0,0,0
…								
2641	0.15	0.48	0.0	100,100,0	0.0	0.0	0.0	0,0,0
	rRfck	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
Max	0.30	0.72	0.0		0.21	0.0	0.0	

2.16 PARETI MBR

Sono le pareti che separano fra di loro la vasche MBR, sono spesse 30 cm e sostengono una passerella in sommità.



2.16.1 MODELLAZIONE STRUTTURA: NODI

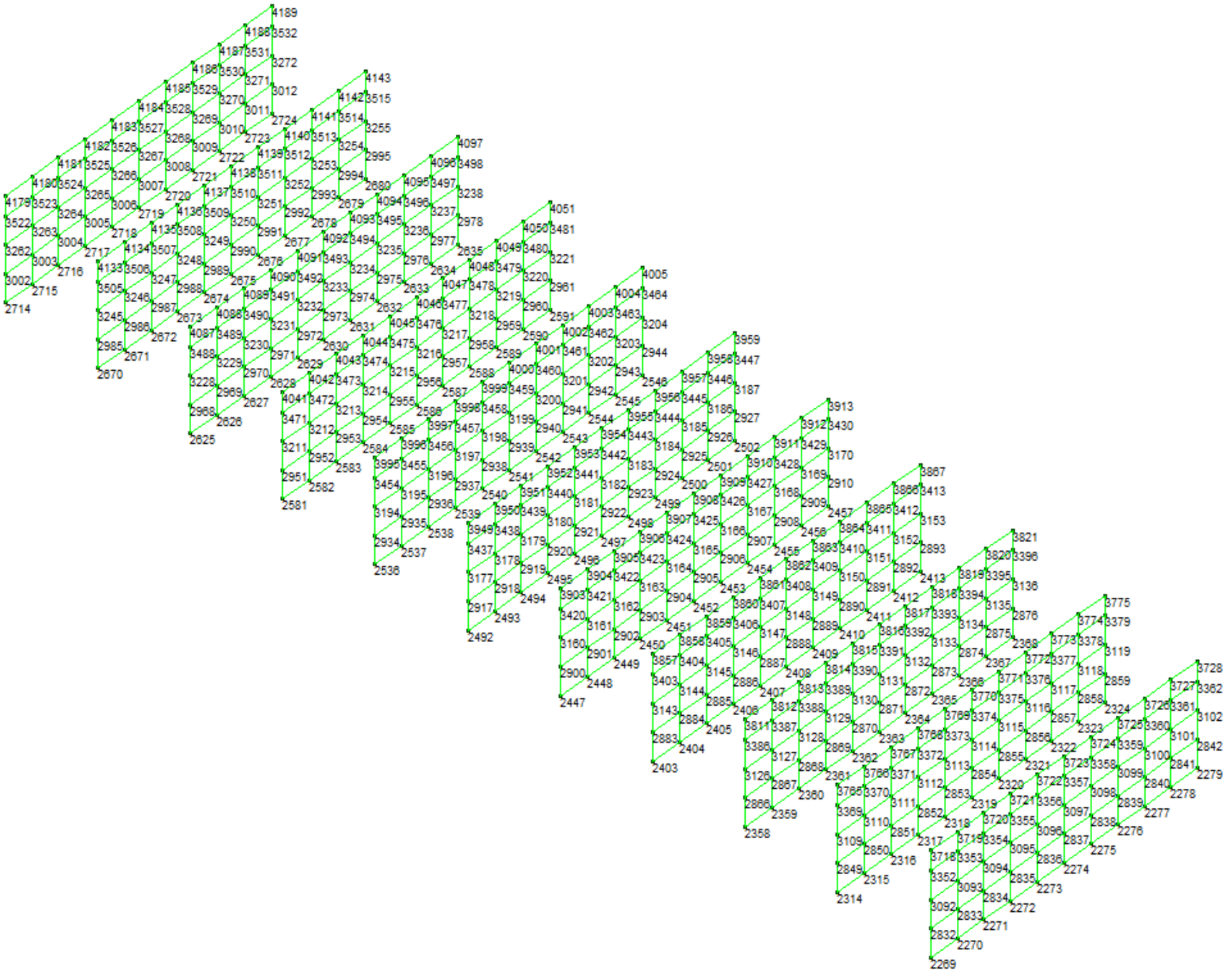
TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2269	1125.0	980.0	560.0	2270	1217.5	980.0	560.0	2271	1310.0	980.0	560.0
2272	1402.5	980.0	560.0	2273	1495.0	980.0	560.0	2274	1587.5	980.0	560.0
2275	1680.0	980.0	560.0	2276	1772.5	980.0	560.0	2277	1865.0	980.0	560.0
2278	1957.5	980.0	560.0	2279	2050.0	980.0	560.0	2314	1125.0	1300.0	560.0
2315	1217.5	1300.0	560.0	2316	1310.0	1300.0	560.0	2317	1402.5	1300.0	560.0
2318	1495.0	1300.0	560.0	2319	1587.5	1300.0	560.0	2320	1680.0	1300.0	560.0
2321	1772.5	1300.0	560.0	2322	1865.0	1300.0	560.0	2323	1957.5	1300.0	560.0
2324	2050.0	1300.0	560.0	2358	1125.0	1620.0	560.0	2359	1217.5	1620.0	560.0
2360	1310.0	1620.0	560.0	2361	1402.5	1620.0	560.0	2362	1495.0	1620.0	560.0
2363	1587.5	1620.0	560.0	2364	1680.0	1620.0	560.0	2365	1772.5	1620.0	560.0
2366	1865.0	1620.0	560.0	2367	1957.5	1620.0	560.0	2368	2050.0	1620.0	560.0
2403	1125.0	1940.0	560.0	2404	1217.5	1940.0	560.0	2405	1310.0	1940.0	560.0
2406	1402.5	1940.0	560.0	2407	1495.0	1940.0	560.0	2408	1587.5	1940.0	560.0
2409	1680.0	1940.0	560.0	2410	1772.5	1940.0	560.0	2411	1865.0	1940.0	560.0
2412	1957.5	1940.0	560.0	2413	2050.0	1940.0	560.0	2447	1125.0	2260.0	560.0
2448	1217.5	2260.0	560.0	2449	1310.0	2260.0	560.0	2450	1402.5	2260.0	560.0
2451	1495.0	2260.0	560.0	2452	1587.5	2260.0	560.0	2453	1680.0	2260.0	560.0
2454	1772.5	2260.0	560.0	2455	1865.0	2260.0	560.0	2456	1957.5	2260.0	560.0
2457	2050.0	2260.0	560.0	2492	1125.0	2580.0	560.0	2493	1217.5	2580.0	560.0
2494	1310.0	2580.0	560.0	2495	1402.5	2580.0	560.0	2496	1495.0	2580.0	560.0
2497	1587.5	2580.0	560.0	2498	1680.0	2580.0	560.0	2499	1772.5	2580.0	560.0
2500	1865.0	2580.0	560.0	2501	1957.5	2580.0	560.0	2502	2050.0	2580.0	560.0
2536	1125.0	2900.0	560.0	2537	1217.5	2900.0	560.0	2538	1310.0	2900.0	560.0
2539	1402.5	2900.0	560.0	2540	1495.0	2900.0	560.0	2541	1587.5	2900.0	560.0
2542	1680.0	2900.0	560.0	2543	1772.5	2900.0	560.0	2544	1865.0	2900.0	560.0
2545	1957.5	2900.0	560.0	2546	2050.0	2900.0	560.0	2581	1125.0	3220.0	560.0
2582	1217.5	3220.0	560.0	2583	1310.0	3220.0	560.0	2584	1402.5	3220.0	560.0
2585	1495.0	3220.0	560.0	2586	1587.5	3220.0	560.0	2587	1680.0	3220.0	560.0
2588	1772.5	3220.0	560.0	2589	1865.0	3220.0	560.0	2590	1957.5	3220.0	560.0
2591	2050.0	3220.0	560.0	2625	1125.0	3540.0	560.0	2626	1217.5	3540.0	560.0
2627	1310.0	3540.0	560.0	2628	1402.5	3540.0	560.0	2629	1495.0	3540.0	560.0

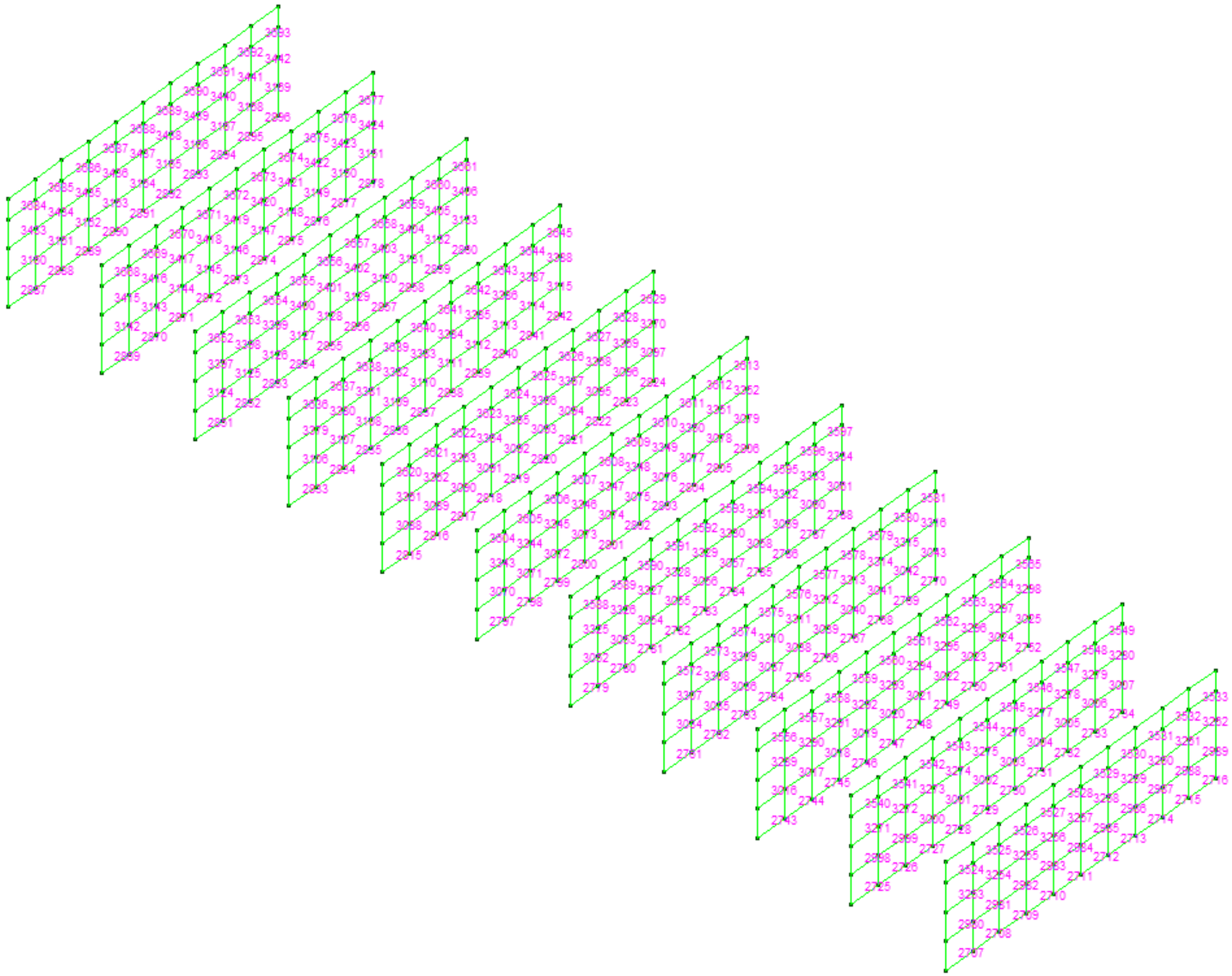
Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2630	1587.5	3540.0	560.0	2631	1680.0	3540.0	560.0	2632	1772.5	3540.0	560.0
2633	1865.0	3540.0	560.0	2634	1957.5	3540.0	560.0	2635	2050.0	3540.0	560.0
2670	1125.0	3860.0	560.0	2671	1217.5	3860.0	560.0	2672	1310.0	3860.0	560.0
2673	1402.5	3860.0	560.0	2674	1495.0	3860.0	560.0	2675	1587.5	3860.0	560.0
2676	1680.0	3860.0	560.0	2677	1772.5	3860.0	560.0	2678	1865.0	3860.0	560.0
2679	1957.5	3860.0	560.0	2680	2050.0	3860.0	560.0	2714	1125.0	4180.0	560.0
2715	1217.5	4180.0	560.0	2716	1310.0	4180.0	560.0	2717	1402.5	4180.0	560.0
2718	1495.0	4180.0	560.0	2719	1587.5	4180.0	560.0	2720	1680.0	4180.0	560.0
2721	1772.5	4180.0	560.0	2722	1865.0	4180.0	560.0	2723	1957.5	4180.0	560.0
2724	2050.0	4180.0	560.0	2832	1125.0	980.0	660.0	2833	1217.5	980.0	660.0
2834	1310.0	980.0	660.0	2835	1402.5	980.0	660.0	2836	1495.0	980.0	660.0
2837	1587.5	980.0	660.0	2838	1680.0	980.0	660.0	2839	1772.5	980.0	660.0
2840	1865.0	980.0	660.0	2841	1957.5	980.0	660.0	2842	2050.0	980.0	660.0
2849	1125.0	1300.0	660.0	2850	1217.5	1300.0	660.0	2851	1310.0	1300.0	660.0
2852	1402.5	1300.0	660.0	2853	1495.0	1300.0	660.0	2854	1587.5	1300.0	660.0
2855	1680.0	1300.0	660.0	2856	1772.5	1300.0	660.0	2857	1865.0	1300.0	660.0
2858	1957.5	1300.0	660.0	2859	2050.0	1300.0	660.0	2866	1125.0	1620.0	660.0
2867	1217.5	1620.0	660.0	2868	1310.0	1620.0	660.0	2869	1402.5	1620.0	660.0
2870	1495.0	1620.0	660.0	2871	1587.5	1620.0	660.0	2872	1680.0	1620.0	660.0
2873	1772.5	1620.0	660.0	2874	1865.0	1620.0	660.0	2875	1957.5	1620.0	660.0
2876	2050.0	1620.0	660.0	2883	1125.0	1940.0	660.0	2884	1217.5	1940.0	660.0
2885	1310.0	1940.0	660.0	2886	1402.5	1940.0	660.0	2887	1495.0	1940.0	660.0
2888	1587.5	1940.0	660.0	2889	1680.0	1940.0	660.0	2890	1772.5	1940.0	660.0
2891	1865.0	1940.0	660.0	2892	1957.5	1940.0	660.0	2893	2050.0	1940.0	660.0
2900	1125.0	2260.0	660.0	2901	1217.5	2260.0	660.0	2902	1310.0	2260.0	660.0
2903	1402.5	2260.0	660.0	2904	1495.0	2260.0	660.0	2905	1587.5	2260.0	660.0
2906	1680.0	2260.0	660.0	2907	1772.5	2260.0	660.0	2908	1865.0	2260.0	660.0
2909	1957.5	2260.0	660.0	2910	2050.0	2260.0	660.0	2917	1125.0	2580.0	660.0
2918	1217.5	2580.0	660.0	2919	1310.0	2580.0	660.0	2920	1402.5	2580.0	660.0
2921	1495.0	2580.0	660.0	2922	1587.5	2580.0	660.0	2923	1680.0	2580.0	660.0
2924	1772.5	2580.0	660.0	2925	1865.0	2580.0	660.0	2926	1957.5	2580.0	660.0
2927	2050.0	2580.0	660.0	2934	1125.0	2900.0	660.0	2935	1217.5	2900.0	660.0
2936	1310.0	2900.0	660.0	2937	1402.5	2900.0	660.0	2938	1495.0	2900.0	660.0
2939	1587.5	2900.0	660.0	2940	1680.0	2900.0	660.0	2941	1772.5	2900.0	660.0
2942	1865.0	2900.0	660.0	2943	1957.5	2900.0	660.0	2944	2050.0	2900.0	660.0
2951	1125.0	3220.0	660.0	2952	1217.5	3220.0	660.0	2953	1310.0	3220.0	660.0
2954	1402.5	3220.0	660.0	2955	1495.0	3220.0	660.0	2956	1587.5	3220.0	660.0
2957	1680.0	3220.0	660.0	2958	1772.5	3220.0	660.0	2959	1865.0	3220.0	660.0
2960	1957.5	3220.0	660.0	2961	2050.0	3220.0	660.0	2968	1125.0	3540.0	660.0
2969	1217.5	3540.0	660.0	2970	1310.0	3540.0	660.0	2971	1402.5	3540.0	660.0
2972	1495.0	3540.0	660.0	2973	1587.5	3540.0	660.0	2974	1680.0	3540.0	660.0
2975	1772.5	3540.0	660.0	2976	1865.0	3540.0	660.0	2977	1957.5	3540.0	660.0
2978	2050.0	3540.0	660.0	2985	1125.0	3860.0	660.0	2986	1217.5	3860.0	660.0
2987	1310.0	3860.0	660.0	2988	1402.5	3860.0	660.0	2989	1495.0	3860.0	660.0
2990	1587.5	3860.0	660.0	2991	1680.0	3860.0	660.0	2992	1772.5	3860.0	660.0
2993	1865.0	3860.0	660.0	2994	1957.5	3860.0	660.0	2995	2050.0	3860.0	660.0
3002	1125.0	4180.0	660.0	3003	1217.5	4180.0	660.0	3004	1310.0	4180.0	660.0
3005	1402.5	4180.0	660.0	3006	1495.0	4180.0	660.0	3007	1587.5	4180.0	660.0
3008	1680.0	4180.0	660.0	3009	1772.5	4180.0	660.0	3010	1865.0	4180.0	660.0
3011	1957.5	4180.0	660.0	3012	2050.0	4180.0	660.0	3092	1125.0	980.0	760.0
3093	1217.5	980.0	760.0	3094	1310.0	980.0	760.0	3095	1402.5	980.0	760.0
3096	1495.0	980.0	760.0	3097	1587.5	980.0	760.0	3098	1680.0	980.0	760.0
3099	1772.5	980.0	760.0	3100	1865.0	980.0	760.0	3101	1957.5	980.0	760.0
3102	2050.0	980.0	760.0	3109	1125.0	1300.0	760.0	3110	1217.5	1300.0	760.0
3111	1310.0	1300.0	760.0	3112	1402.5	1300.0	760.0	3113	1495.0	1300.0	760.0
3114	1587.5	1300.0	760.0	3115	1680.0	1300.0	760.0	3116	1772.5	1300.0	760.0
3117	1865.0	1300.0	760.0	3118	1957.5	1300.0	760.0	3119	2050.0	1300.0	760.0
3126	1125.0	1620.0	760.0	3127	1217.5	1620.0	760.0	3128	1310.0	1620.0	760.0
3129	1402.5	1620.0	760.0	3130	1495.0	1620.0	760.0	3131	1587.5	1620.0	760.0
3132	1680.0	1620.0	760.0	3133	1772.5	1620.0	760.0	3134	1865.0	1620.0	760.0
3135	1957.5	1620.0	760.0	3136	2050.0	1620.0	760.0	3143	1125.0	1940.0	760.0
3144	1217.5	1940.0	760.0	3145	1310.0	1940.0	760.0	3146	1402.5	1940.0	760.0
3147	1495.0	1940.0	760.0	3148	1587.5	1940.0	760.0	3149	1680.0	1940.0	760.0
3150	1772.5	1940.0	760.0	3151	1865.0	1940.0	760.0	3152	1957.5	1940.0	760.0
3153	2050.0	1940.0	760.0	3160	1125.0	2260.0	760.0	3161	1217.5	2260.0	760.0
3162	1310.0	2260.0	760.0	3163	1402.5	2260.0	760.0	3164	1495.0	2260.0	760.0
3165	1587.5	2260.0	760.0	3166	1680.0	2260.0	760.0	3167	1772.5	2260.0	760.0
3168	1865.0	2260.0	760.0	3169	1957.5	2260.0	760.0	3170	2050.0	2260.0	760.0
3177	1125.0	2580.0	760.0	3178	1217.5	2580.0	760.0	3179	1310.0	2580.0	760.0
3180	1402.5	2580.0	760.0	3181	1495.0	2580.0	760.0	3182	1587.5	2580.0	760.0
3183	1680.0	2580.0	760.0	3184	1772.5	2580.0	760.0	3185	1865.0	2580.0	760.0
3186	1957.5	2580.0	760.0	3187	2050.0	2580.0	760.0	3194	1125.0	2900.0	760.0
3195	1217.5	2900.0	760.0	3196	1310.0	2900.0	760.0	3197	1402.5	2900.0	760.0
3198	1495.0	2900.0	760.0	3199	1587.5	2900.0	760.0	3200	1680.0	2900.0	760.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
3201	1772.5	2900.0	760.0	3202	1865.0	2900.0	760.0	3203	1957.5	2900.0	760.0
3204	2050.0	2900.0	760.0	3211	1125.0	3220.0	760.0	3212	1217.5	3220.0	760.0
3213	1310.0	3220.0	760.0	3214	1402.5	3220.0	760.0	3215	1495.0	3220.0	760.0
3216	1587.5	3220.0	760.0	3217	1680.0	3220.0	760.0	3218	1772.5	3220.0	760.0
3219	1865.0	3220.0	760.0	3220	1957.5	3220.0	760.0	3221	2050.0	3220.0	760.0
3228	1125.0	3540.0	760.0	3229	1217.5	3540.0	760.0	3230	1310.0	3540.0	760.0
3231	1402.5	3540.0	760.0	3232	1495.0	3540.0	760.0	3233	1587.5	3540.0	760.0
3234	1680.0	3540.0	760.0	3235	1772.5	3540.0	760.0	3236	1865.0	3540.0	760.0
3237	1957.5	3540.0	760.0	3238	2050.0	3540.0	760.0	3245	1125.0	3860.0	760.0
3246	1217.5	3860.0	760.0	3247	1310.0	3860.0	760.0	3248	1402.5	3860.0	760.0
3249	1495.0	3860.0	760.0	3250	1587.5	3860.0	760.0	3251	1680.0	3860.0	760.0
3252	1772.5	3860.0	760.0	3253	1865.0	3860.0	760.0	3254	1957.5	3860.0	760.0
3255	2050.0	3860.0	760.0	3262	1125.0	4180.0	760.0	3263	1217.5	4180.0	760.0
3264	1310.0	4180.0	760.0	3265	1402.5	4180.0	760.0	3266	1495.0	4180.0	760.0
3267	1587.5	4180.0	760.0	3268	1680.0	4180.0	760.0	3269	1772.5	4180.0	760.0
3270	1865.0	4180.0	760.0	3271	1957.5	4180.0	760.0	3272	2050.0	4180.0	760.0
3352	1125.0	980.0	860.0	3353	1217.5	980.0	860.0	3354	1310.0	980.0	860.0
3355	1402.5	980.0	860.0	3356	1495.0	980.0	860.0	3357	1587.5	980.0	860.0
3358	1680.0	980.0	860.0	3359	1772.5	980.0	860.0	3360	1865.0	980.0	860.0
3361	1957.5	980.0	860.0	3362	2050.0	980.0	860.0	3369	1125.0	1300.0	860.0
3370	1217.5	1300.0	860.0	3371	1310.0	1300.0	860.0	3372	1402.5	1300.0	860.0
3373	1495.0	1300.0	860.0	3374	1587.5	1300.0	860.0	3375	1680.0	1300.0	860.0
3376	1772.5	1300.0	860.0	3377	1865.0	1300.0	860.0	3378	1957.5	1300.0	860.0
3379	2050.0	1300.0	860.0	3386	1125.0	1620.0	860.0	3387	1217.5	1620.0	860.0
3388	1310.0	1620.0	860.0	3389	1402.5	1620.0	860.0	3390	1495.0	1620.0	860.0
3391	1587.5	1620.0	860.0	3392	1680.0	1620.0	860.0	3393	1772.5	1620.0	860.0
3394	1865.0	1620.0	860.0	3395	1957.5	1620.0	860.0	3396	2050.0	1620.0	860.0
3403	1125.0	1940.0	860.0	3404	1217.5	1940.0	860.0	3405	1310.0	1940.0	860.0
3406	1402.5	1940.0	860.0	3407	1495.0	1940.0	860.0	3408	1587.5	1940.0	860.0
3409	1680.0	1940.0	860.0	3410	1772.5	1940.0	860.0	3411	1865.0	1940.0	860.0
3412	1957.5	1940.0	860.0	3413	2050.0	1940.0	860.0	3420	1125.0	2260.0	860.0
3421	1217.5	2260.0	860.0	3422	1310.0	2260.0	860.0	3423	1402.5	2260.0	860.0
3424	1495.0	2260.0	860.0	3425	1587.5	2260.0	860.0	3426	1680.0	2260.0	860.0
3427	1772.5	2260.0	860.0	3428	1865.0	2260.0	860.0	3429	1957.5	2260.0	860.0
3430	2050.0	2260.0	860.0	3437	1125.0	2580.0	860.0	3438	1217.5	2580.0	860.0
3439	1310.0	2580.0	860.0	3440	1402.5	2580.0	860.0	3441	1495.0	2580.0	860.0
3442	1587.5	2580.0	860.0	3443	1680.0	2580.0	860.0	3444	1772.5	2580.0	860.0
3445	1865.0	2580.0	860.0	3446	1957.5	2580.0	860.0	3447	2050.0	2580.0	860.0
3454	1125.0	2900.0	860.0	3455	1217.5	2900.0	860.0	3456	1310.0	2900.0	860.0
3457	1402.5	2900.0	860.0	3458	1495.0	2900.0	860.0	3459	1587.5	2900.0	860.0
3460	1680.0	2900.0	860.0	3461	1772.5	2900.0	860.0	3462	1865.0	2900.0	860.0
3463	1957.5	2900.0	860.0	3464	2050.0	2900.0	860.0	3471	1125.0	3220.0	860.0
3472	1217.5	3220.0	860.0	3473	1310.0	3220.0	860.0	3474	1402.5	3220.0	860.0
3475	1495.0	3220.0	860.0	3476	1587.5	3220.0	860.0	3477	1680.0	3220.0	860.0
3478	1772.5	3220.0	860.0	3479	1865.0	3220.0	860.0	3480	1957.5	3220.0	860.0
3481	2050.0	3220.0	860.0	3488	1125.0	3540.0	860.0	3489	1217.5	3540.0	860.0
3490	1310.0	3540.0	860.0	3491	1402.5	3540.0	860.0	3492	1495.0	3540.0	860.0
3493	1587.5	3540.0	860.0	3494	1680.0	3540.0	860.0	3495	1772.5	3540.0	860.0
3496	1865.0	3540.0	860.0	3497	1957.5	3540.0	860.0	3498	2050.0	3540.0	860.0
3505	1125.0	3860.0	860.0	3506	1217.5	3860.0	860.0	3507	1310.0	3860.0	860.0
3508	1402.5	3860.0	860.0	3509	1495.0	3860.0	860.0	3510	1587.5	3860.0	860.0
3511	1680.0	3860.0	860.0	3512	1772.5	3860.0	860.0	3513	1865.0	3860.0	860.0
3514	1957.5	3860.0	860.0	3515	2050.0	3860.0	860.0	3522	1125.0	4180.0	860.0
3523	1217.5	4180.0	860.0	3524	1310.0	4180.0	860.0	3525	1402.5	4180.0	860.0
3526	1495.0	4180.0	860.0	3527	1587.5	4180.0	860.0	3528	1680.0	4180.0	860.0
3529	1772.5	4180.0	860.0	3530	1865.0	4180.0	860.0	3531	1957.5	4180.0	860.0
3532	2050.0	4180.0	860.0	3718	1125.0	980.0	930.0	3719	1217.5	980.0	930.0
3720	1310.0	980.0	930.0	3721	1402.5	980.0	930.0	3722	1495.0	980.0	930.0
3723	1587.5	980.0	930.0	3724	1680.0	980.0	930.0	3725	1772.5	980.0	930.0
3726	1865.0	980.0	930.0	3727	1957.5	980.0	930.0	3728	2050.0	980.0	930.0
3765	1125.0	1300.0	930.0	3766	1217.5	1300.0	930.0	3767	1310.0	1300.0	930.0
3768	1402.5	1300.0	930.0	3769	1495.0	1300.0	930.0	3770	1587.5	1300.0	930.0
3771	1680.0	1300.0	930.0	3772	1772.5	1300.0	930.0	3773	1865.0	1300.0	930.0
3774	1957.5	1300.0	930.0	3775	2050.0	1300.0	930.0	3811	1125.0	1620.0	930.0
3812	1217.5	1620.0	930.0	3813	1310.0	1620.0	930.0	3814	1402.5	1620.0	930.0
3815	1495.0	1620.0	930.0	3816	1587.5	1620.0	930.0	3817	1680.0	1620.0	930.0
3818	1772.5	1620.0	930.0	3819	1865.0	1620.0	930.0	3820	1957.5	1620.0	930.0
3821	2050.0	1620.0	930.0	3857	1125.0	1940.0	930.0	3858	1217.5	1940.0	930.0
3859	1310.0	1940.0	930.0	3860	1402.5	1940.0	930.0	3861	1495.0	1940.0	930.0
…											
4188	1957.5	4180.0	930.0	4189	2050.0	4180.0	930.0				

Numerazione nodi



Numerazione elementi



2.16.2 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

TABELLA DATI SHELL

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
2707	Setto	2832	2833	2270	2269	4	30.0		
2708	Setto	2833	2834	2271	2270	4	30.0		
2709	Setto	2834	2835	2272	2271	4	30.0		
2710	Setto	2835	2836	2273	2272	4	30.0		
2711	Setto	2836	2837	2274	2273	4	30.0		
2712	Setto	2837	2838	2275	2274	4	30.0		
2713	Setto	2838	2839	2276	2275	4	30.0		
2714	Setto	2839	2840	2277	2276	4	30.0		
2715	Setto	2840	2841	2278	2277	4	30.0		
2716	Setto	2841	2842	2279	2278	4	30.0		
2725	Setto	2849	2850	2315	2314	4	30.0		
2726	Setto	2850	2851	2316	2315	4	30.0		
2727	Setto	2851	2852	2317	2316	4	30.0		
2728	Setto	2852	2853	2318	2317	4	30.0		
2729	Setto	2853	2854	2319	2318	4	30.0		
2730	Setto	2854	2855	2320	2319	4	30.0		
2731	Setto	2855	2856	2321	2320	4	30.0		
2732	Setto	2856	2857	2322	2321	4	30.0		
2733	Setto	2857	2858	2323	2322	4	30.0		
2734	Setto	2858	2859	2324	2323	4	30.0		
2743	Setto	2866	2867	2359	2358	4	30.0		
2744	Setto	2867	2868	2360	2359	4	30.0		
2745	Setto	2868	2869	2361	2360	4	30.0		
2746	Setto	2869	2870	2362	2361	4	30.0		
2747	Setto	2870	2871	2363	2362	4	30.0		
2748	Setto	2871	2872	2364	2363	4	30.0		
2749	Setto	2872	2873	2365	2364	4	30.0		
2750	Setto	2873	2874	2366	2365	4	30.0		
2751	Setto	2874	2875	2367	2366	4	30.0		
2752	Setto	2875	2876	2368	2367	4	30.0		
2761	Setto	2883	2884	2404	2403	4	30.0		
2762	Setto	2884	2885	2405	2404	4	30.0		
2763	Setto	2885	2886	2406	2405	4	30.0		
2764	Setto	2886	2887	2407	2406	4	30.0		
2765	Setto	2887	2888	2408	2407	4	30.0		
2766	Setto	2888	2889	2409	2408	4	30.0		
2767	Setto	2889	2890	2410	2409	4	30.0		
2768	Setto	2890	2891	2411	2410	4	30.0		
2769	Setto	2891	2892	2412	2411	4	30.0		
2770	Setto	2892	2893	2413	2412	4	30.0		
2779	Setto	2900	2901	2448	2447	4	30.0		
2780	Setto	2901	2902	2449	2448	4	30.0		
2781	Setto	2902	2903	2450	2449	4	30.0		
2782	Setto	2903	2904	2451	2450	4	30.0		
2783	Setto	2904	2905	2452	2451	4	30.0		
2784	Setto	2905	2906	2453	2452	4	30.0		
2785	Setto	2906	2907	2454	2453	4	30.0		
2786	Setto	2907	2908	2455	2454	4	30.0		
2787	Setto	2908	2909	2456	2455	4	30.0		
2788	Setto	2909	2910	2457	2456	4	30.0		
2797	Setto	2917	2918	2493	2492	4	30.0		
2798	Setto	2918	2919	2494	2493	4	30.0		
2799	Setto	2919	2920	2495	2494	4	30.0		
2800	Setto	2920	2921	2496	2495	4	30.0		
2801	Setto	2921	2922	2497	2496	4	30.0		
2802	Setto	2922	2923	2498	2497	4	30.0		
2803	Setto	2923	2924	2499	2498	4	30.0		
2804	Setto	2924	2925	2500	2499	4	30.0		
2805	Setto	2925	2926	2501	2500	4	30.0		
2806	Setto	2926	2927	2502	2501	4	30.0		
2815	Setto	2934	2935	2537	2536	4	30.0		
2816	Setto	2935	2936	2538	2537	4	30.0		
2817	Setto	2936	2937	2539	2538	4	30.0		
2818	Setto	2937	2938	2540	2539	4	30.0		
2819	Setto	2938	2939	2541	2540	4	30.0		
2820	Setto	2939	2940	2542	2541	4	30.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
2821	Setto	2940	2941	2543	2542	4	30.0		
2822	Setto	2941	2942	2544	2543	4	30.0		
2823	Setto	2942	2943	2545	2544	4	30.0		
2824	Setto	2943	2944	2546	2545	4	30.0		
2833	Setto	2951	2952	2582	2581	4	30.0		
2834	Setto	2952	2953	2583	2582	4	30.0		
2835	Setto	2953	2954	2584	2583	4	30.0		
2836	Setto	2954	2955	2585	2584	4	30.0		
2837	Setto	2955	2956	2586	2585	4	30.0		
2838	Setto	2956	2957	2587	2586	4	30.0		
2839	Setto	2957	2958	2588	2587	4	30.0		
2840	Setto	2958	2959	2589	2588	4	30.0		
2841	Setto	2959	2960	2590	2589	4	30.0		
2842	Setto	2960	2961	2591	2590	4	30.0		
2851	Setto	2968	2969	2626	2625	4	30.0		
2852	Setto	2969	2970	2627	2626	4	30.0		
2853	Setto	2970	2971	2628	2627	4	30.0		
2854	Setto	2971	2972	2629	2628	4	30.0		
2855	Setto	2972	2973	2630	2629	4	30.0		
2856	Setto	2973	2974	2631	2630	4	30.0		
2857	Setto	2974	2975	2632	2631	4	30.0		
2858	Setto	2975	2976	2633	2632	4	30.0		
2859	Setto	2976	2977	2634	2633	4	30.0		
2860	Setto	2977	2978	2635	2634	4	30.0		
2869	Setto	2985	2986	2671	2670	4	30.0		
2870	Setto	2986	2987	2672	2671	4	30.0		
2871	Setto	2987	2988	2673	2672	4	30.0		
2872	Setto	2988	2989	2674	2673	4	30.0		
2873	Setto	2989	2990	2675	2674	4	30.0		
2874	Setto	2990	2991	2676	2675	4	30.0		
2875	Setto	2991	2992	2677	2676	4	30.0		
2876	Setto	2992	2993	2678	2677	4	30.0		
2877	Setto	2993	2994	2679	2678	4	30.0		
2878	Setto	2994	2995	2680	2679	4	30.0		
2887	Setto	3002	3003	2715	2714	4	30.0		
2888	Setto	3003	3004	2716	2715	4	30.0		
2889	Setto	3004	3005	2717	2716	4	30.0		
2890	Setto	3005	3006	2718	2717	4	30.0		
2891	Setto	3006	3007	2719	2718	4	30.0		
2892	Setto	3007	3008	2720	2719	4	30.0		
2893	Setto	3008	3009	2721	2720	4	30.0		
2894	Setto	3009	3010	2722	2721	4	30.0		
2895	Setto	3010	3011	2723	2722	4	30.0		
2896	Setto	3011	3012	2724	2723	4	30.0		
2980	Setto	3092	3093	2833	2832	4	30.0		
2981	Setto	3093	3094	2834	2833	4	30.0		
2982	Setto	3094	3095	2835	2834	4	30.0		
2983	Setto	3095	3096	2836	2835	4	30.0		
2984	Setto	3096	3097	2837	2836	4	30.0		
2985	Setto	3097	3098	2838	2837	4	30.0		
2986	Setto	3098	3099	2839	2838	4	30.0		
2987	Setto	3099	3100	2840	2839	4	30.0		
2988	Setto	3100	3101	2841	2840	4	30.0		
2989	Setto	3101	3102	2842	2841	4	30.0		
2998	Setto	3109	3110	2850	2849	4	30.0		
2999	Setto	3110	3111	2851	2850	4	30.0		
3000	Setto	3111	3112	2852	2851	4	30.0		
3001	Setto	3112	3113	2853	2852	4	30.0		
3002	Setto	3113	3114	2854	2853	4	30.0		
3003	Setto	3114	3115	2855	2854	4	30.0		
3004	Setto	3115	3116	2856	2855	4	30.0		
3005	Setto	3116	3117	2857	2856	4	30.0		
3006	Setto	3117	3118	2858	2857	4	30.0		
3007	Setto	3118	3119	2859	2858	4	30.0		
3016	Setto	3126	3127	2867	2866	4	30.0		
3017	Setto	3127	3128	2868	2867	4	30.0		
3018	Setto	3128	3129	2869	2868	4	30.0		
3019	Setto	3129	3130	2870	2869	4	30.0		
3020	Setto	3130	3131	2871	2870	4	30.0		
3021	Setto	3131	3132	2872	2871	4	30.0		
3022	Setto	3132	3133	2873	2872	4	30.0		
3023	Setto	3133	3134	2874	2873	4	30.0		
3024	Setto	3134	3135	2875	2874	4	30.0		
3025	Setto	3135	3136	2876	2875	4	30.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
3034	Setto	3143	3144	2884	2883	4	30.0		
3035	Setto	3144	3145	2885	2884	4	30.0		
3036	Setto	3145	3146	2886	2885	4	30.0		
3037	Setto	3146	3147	2887	2886	4	30.0		
3038	Setto	3147	3148	2888	2887	4	30.0		
3039	Setto	3148	3149	2889	2888	4	30.0		
3040	Setto	3149	3150	2890	2889	4	30.0		
3041	Setto	3150	3151	2891	2890	4	30.0		
3042	Setto	3151	3152	2892	2891	4	30.0		
3043	Setto	3152	3153	2893	2892	4	30.0		
3052	Setto	3160	3161	2901	2900	4	30.0		
3053	Setto	3161	3162	2902	2901	4	30.0		
3054	Setto	3162	3163	2903	2902	4	30.0		
3055	Setto	3163	3164	2904	2903	4	30.0		
3056	Setto	3164	3165	2905	2904	4	30.0		
3057	Setto	3165	3166	2906	2905	4	30.0		
3058	Setto	3166	3167	2907	2906	4	30.0		
3059	Setto	3167	3168	2908	2907	4	30.0		
3060	Setto	3168	3169	2909	2908	4	30.0		
3061	Setto	3169	3170	2910	2909	4	30.0		
3070	Setto	3177	3178	2918	2917	4	30.0		
3071	Setto	3178	3179	2919	2918	4	30.0		
3072	Setto	3179	3180	2920	2919	4	30.0		
3073	Setto	3180	3181	2921	2920	4	30.0		
3074	Setto	3181	3182	2922	2921	4	30.0		
3075	Setto	3182	3183	2923	2922	4	30.0		
3076	Setto	3183	3184	2924	2923	4	30.0		
3077	Setto	3184	3185	2925	2924	4	30.0		
3078	Setto	3185	3186	2926	2925	4	30.0		
3079	Setto	3186	3187	2927	2926	4	30.0		
3088	Setto	3194	3195	2935	2934	4	30.0		
3089	Setto	3195	3196	2936	2935	4	30.0		
3090	Setto	3196	3197	2937	2936	4	30.0		
3091	Setto	3197	3198	2938	2937	4	30.0		
3092	Setto	3198	3199	2939	2938	4	30.0		
3093	Setto	3199	3200	2940	2939	4	30.0		
3094	Setto	3200	3201	2941	2940	4	30.0		
3095	Setto	3201	3202	2942	2941	4	30.0		
3096	Setto	3202	3203	2943	2942	4	30.0		
3097	Setto	3203	3204	2944	2943	4	30.0		
3106	Setto	3211	3212	2952	2951	4	30.0		
3107	Setto	3212	3213	2953	2952	4	30.0		
3108	Setto	3213	3214	2954	2953	4	30.0		
3109	Setto	3214	3215	2955	2954	4	30.0		
3110	Setto	3215	3216	2956	2955	4	30.0		
3111	Setto	3216	3217	2957	2956	4	30.0		
3112	Setto	3217	3218	2958	2957	4	30.0		
3113	Setto	3218	3219	2959	2958	4	30.0		
3114	Setto	3219	3220	2960	2959	4	30.0		
3115	Setto	3220	3221	2961	2960	4	30.0		
3124	Setto	3228	3229	2969	2968	4	30.0		
3125	Setto	3229	3230	2970	2969	4	30.0		
3126	Setto	3230	3231	2971	2970	4	30.0		
3127	Setto	3231	3232	2972	2971	4	30.0		
3128	Setto	3232	3233	2973	2972	4	30.0		
3129	Setto	3233	3234	2974	2973	4	30.0		
3130	Setto	3234	3235	2975	2974	4	30.0		
3131	Setto	3235	3236	2976	2975	4	30.0		
3132	Setto	3236	3237	2977	2976	4	30.0		
3133	Setto	3237	3238	2978	2977	4	30.0		
3142	Setto	3245	3246	2986	2985	4	30.0		
3143	Setto	3246	3247	2987	2986	4	30.0		
3144	Setto	3247	3248	2988	2987	4	30.0		
3145	Setto	3248	3249	2989	2988	4	30.0		
3146	Setto	3249	3250	2990	2989	4	30.0		
3147	Setto	3250	3251	2991	2990	4	30.0		
3148	Setto	3251	3252	2992	2991	4	30.0		
…									
3693	Setto	4188	4189	3532	3531	4	30.0		

2.16.3 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

TABELLA VERIFICHE ELEMENTI PARETE IN C.A.

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
9	ok 2269	0.10	0.2	0.2	5.7	5.7	3.9	3.9	-573.4	-167.3	-325.5	1292.4	-386.3	246.7
9	ok 2270	0.11	0.8	2.11e-02	5.7	6.9	3.9	5.1	198.9	97.8	-207.4	606.1	244.2	-32.0
9	ok 2271	0.11	0.8	0.0	5.8	6.8	4.1	5.0	180.9	212.7	-144.0	595.4	57.4	-181.6
9	ok 2272	0.12	0.8	0.0	6.2	7.8	4.5	5.6	176.0	277.3	-59.8	771.9	159.4	-232.8
9	ok 2273	0.12	0.8	0.0	6.3	7.9	4.6	5.9	171.2	311.4	-101.3	844.5	221.8	-234.8
9	ok 2274	0.12	0.8	0.0	6.2	7.7	4.5	5.8	167.3	320.2	-75.8	803.8	228.5	-214.3
9	ok 2275	0.12	0.8	0.0	6.0	7.2	4.3	5.3	167.3	308.0	21.7	703.9	210.7	-154.8
9	ok 2276	0.11	0.8	0.0	6.0	6.6	4.3	4.6	172.5	280.6	54.4	514.3	169.1	-116.6
9	ok 2277	0.11	0.7	0.0	5.8	6.1	4.1	4.3	168.4	232.5	25.5	287.6	126.1	-70.6
9	ok 2278	0.10	0.5	1.52e-03	5.7	5.7	3.9	3.9	117.0	150.1	62.5	90.4	114.7	-7.8
9	ok 2279	0.10	0.2	5.26e-02	5.7	5.7	3.9	3.9	-179.9	-45.1	110.3	171.2	425.1	71.6
9	ok 2832	0.11	0.7	0.1	6.1	5.7	4.4	3.9	-383.0	85.6	-259.1	-697.6	-1155.5	192.9
9	ok 2833	0.10	0.5	8.47e-02	5.7	5.7	3.9	3.9	-15.0	-10.1	-278.1	-35.0	-381.6	7.4
9	ok 2834	0.10	0.5	3.21e-02	5.7	5.7	3.9	3.9	115.4	28.9	-211.6	219.4	-143.0	-145.1
9	ok 2835	0.10	0.5	1.21e-02	5.7	5.7	3.9	3.9	136.2	90.8	-151.7	344.1	12.5	-238.5
9	ok 2836	0.10	0.4	4.09e-03	5.7	5.7	3.9	3.9	132.6	126.3	-86.2	421.4	108.7	-305.8
9	ok 2837	0.10	0.3	3.28e-04	5.7	5.7	3.9	3.9	125.5	137.9	-37.3	443.3	157.0	-341.3
9	ok 2838	0.10	0.3	0.0	5.7	5.7	3.9	3.9	123.6	129.9	12.6	414.0	174.7	-349.0
9	ok 2839	0.10	0.2	7.53e-04	5.7	5.7	3.9	3.9	124.3	101.9	55.5	365.8	181.7	-287.1
9	ok 2840	0.10	0.3	1.09e-02	5.7	5.7	3.9	3.9	117.2	52.8	116.3	290.2	208.7	-244.4
9	ok 2841	0.10	0.5	4.40e-02	5.7	5.7	3.9	3.9	51.9	-32.0	206.0	216.0	393.5	-86.6
9	ok 2842	0.10	0.4	7.85e-02	5.7	5.7	3.9	3.9	-119.9	-11.1	217.8	19.3	275.8	68.8
9	ok 3092	0.10	0.8	5.97e-02	6.0	5.7	4.3	3.9	-154.9	38.8	-189.2	-295.7	-1291.8	243.7
9	ok 3093	0.10	0.6	6.46e-02	5.7	5.7	3.9	3.9	-44.0	0.5	-267.8	-195.3	-679.8	211.6
9	ok 3094	0.10	0.5	5.31e-02	5.7	5.7	3.9	3.9	51.1	-25.0	-239.5	-16.3	-303.4	-7.7
9	ok 3095	0.10	0.5	3.50e-02	5.7	5.7	3.9	3.9	82.0	-11.9	-172.8	106.9	-131.4	-119.8
9	ok 3096	0.10	0.4	1.96e-02	5.7	5.7	3.9	3.9	81.1	-6.6	-104.0	179.1	-10.7	-211.7
9	ok 3097	0.10	0.4	9.60e-03	5.7	5.7	3.9	3.9	72.8	-7.3	-40.9	207.4	59.3	-313.3
9	ok 3098	0.10	0.3	5.43e-03	5.7	5.7	3.9	3.9	70.3	-13.0	16.3	230.8	128.1	-344.9
9	ok 3099	0.10	0.3	1.83e-02	5.7	5.7	3.9	3.9	63.9	-25.2	85.2	238.8	183.9	-304.8
9	ok 3100	0.10	0.3	3.48e-02	5.7	5.7	3.9	3.9	57.0	-24.5	150.3	253.3	256.4	-278.7
9	ok 3101	0.10	0.3	4.92e-02	5.7	5.7	3.9	3.9	9.3	-18.8	209.2	334.0	571.1	-321.5
9	ok 3102	0.10	0.7	5.66e-02	5.7	5.7	3.9	3.9	-87.9	24.1	194.7	264.9	1227.2	1.5
9	ok 3352	0.10	0.8	4.50e-02	5.7	5.7	4.0	3.9	-46.6	-39.2	-162.3	-198.8	-1265.9	130.0
9	ok 3353	0.11	0.7	5.12e-02	6.1	5.7	4.4	3.9	17.8	15.2	-239.0	-109.7	-830.0	164.9
9	ok 3354	0.10	0.2	5.21e-02	5.7	5.7	3.9	3.9	14.5	-22.4	-217.0	-68.8	-554.6	18.7
9	ok 3355	0.10	0.1	4.63e-02	5.7	5.7	3.9	3.9	19.0	-89.5	-150.3	-28.4	-308.6	-102.5
9	ok 3356	0.10	0.2	4.01e-02	5.7	5.7	3.9	3.9	18.6	-128.2	-88.7	10.8	-157.3	-216.8
9	ok 3357	0.10	0.2	3.56e-02	5.7	5.7	3.9	3.9	16.9	-149.4	-29.3	45.4	-30.6	-297.4
9	ok 3358	0.10	0.2	3.55e-02	5.7	5.7	3.9	3.9	15.7	-152.9	18.1	72.9	78.5	-339.5
9	ok 3359	0.10	0.2	3.96e-02	5.7	5.7	3.9	3.9	14.1	-138.6	84.1	91.7	177.3	-340.6
9	ok 3360	0.10	0.2	4.38e-02	5.7	5.7	3.9	3.9	7.2	-103.8	124.4	107.2	272.0	-303.0
9	ok 3361	0.10	0.2	4.41e-02	5.7	5.7	3.9	3.9	-16.4	-52.0	161.3	213.7	461.8	-231.0
9	ok 3362	0.10	0.6	3.50e-02	5.7	5.7	3.9	3.9	-30.4	10.2	139.7	439.0	1351.1	-424.1
9	ok 3718	0.11	0.8	1.78e-02	6.6	5.7	6.6	3.9	69.2	249.0	-168.7	208.6	-1025.2	7.3
9	ok 3719	0.11	0.7	3.58e-02	6.1	5.7	4.4	3.9	14.6	92.0	-214.3	-44.9	-809.0	81.5
9	ok 3720	0.10	0.2	4.10e-02	5.7	5.7	3.9	3.9	-12.3	-42.8	-145.7	-125.8	-655.6	3.0
9	ok 3721	0.10	9.13e-02	4.92e-02	5.7	5.7	3.9	3.9	-19.8	-162.8	-94.0	-124.6	-409.0	-62.4
9	ok 3722	0.10	7.13e-02	5.69e-02	5.7	5.7	3.9	3.9	-19.6	-236.3	-70.1	-104.9	-242.2	-124.0
9	ok 3723	0.10	7.52e-02	6.15e-02	5.7	5.7	3.9	3.9	-19.7	-273.4	-30.5	-69.4	-93.0	-169.6
9	ok 3724	0.10	7.54e-02	6.17e-02	5.7	5.7	3.9	3.9	-19.7	-275.9	7.2	-30.9	42.7	-194.9
9	ok 3725	0.10	8.06e-02	5.76e-02	5.7	5.7	3.9	3.9	-19.7	-244.9	43.1	-2.4	168.2	-199.9
9	ok 3726	0.10	9.31e-02	4.91e-02	5.7	5.7	3.9	3.9	-20.3	-181.6	74.0	-22.3	288.1	-188.9
9	ok 3727	0.10	0.1	3.97e-02	5.7	5.7	3.9	3.9	-21.5	-91.6	91.1	-213.1	416.4	-169.4
9	ok 3728	0.10	0.3	7.11e-03	5.7	5.7	3.9	3.9	25.3	27.5	58.8	-166.2	1039.2	-140.3
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N z**	**N o**	**N zo**	**M z**	**M o**	**M zo**
Min									-573.40	-275.91	-325.51	-697.61	-1291.75	-424.12
Max		0.12	0.83	0.16	6.57	7.90	6.62	5.92	198.91	320.20	217.84	1292.41	1351.10	246.66

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
10	ok 2314	0.10	0.2	0.1	5.7	5.7	3.9	3.9	-224.0	-228.9	-240.1	61.0	-124.8	476.4
10	ok 2315	0.10	0.5	5.40e-02	5.7	5.7	3.9	3.9	-77.3	91.2	-153.6	519.6	638.2	-55.7
10	ok 2316	0.12	0.8	4.75e-03	6.9	7.6	5.1	5.3	245.3	207.5	-161.4	284.6	144.7	-55.9
10	ok 2317	0.12	0.8	0.0	6.7	7.2	4.9	5.1	190.5	255.7	-119.7	258.1	33.9	-112.8
10	ok 2318	0.12	0.8	0.0	6.7	7.2	4.9	5.0	182.5	291.0	-83.7	199.1	31.0	-142.8
10	ok 2319	0.12	0.8	0.0	6.6	7.0	4.9	4.8	180.4	310.9	-49.2	101.1	26.3	-159.9
10	ok 2320	0.12	0.8	0.0	6.6	6.5	4.9	4.7	181.6	314.3	45.9	-19.9	11.3	-174.0
10	ok 2321	0.11	0.8	0.0	6.7	6.1	4.9	4.6	186.1	302.4	73.0	-146.4	-10.1	-186.5
10	ok 2322	0.11	0.7	0.0	6.6	6.0	4.9	4.3	194.5	276.4	93.2	-268.1	-49.9	-184.5
10	ok 2323	0.11	0.8	0.0	6.6	5.7	4.9	3.9	250.5	234.7	91.6	-384.6	-306.2	-139.5
10	ok 2324	0.10	0.3	7.51e-02	5.7	5.7	3.9	3.9	-269.2	-39.1	152.8	9.2	715.6	88.0
10	ok 2849	0.10	0.5	0.1	5.7	5.7	3.9	3.9	-372.9	44.7	-228.7	498.1	-321.5	130.2
10	ok 2850	0.10	0.6	7.30e-02	5.7	5.7	3.9	3.9	-18.0	-46.2	-293.3	-111.1	-448.7	97.8
10	ok 2851	0.10	0.5	4.51e-02	5.7	5.7	3.9	3.9	57.5	-6.0	-213.6	63.6	-239.3	-114.5
10	ok 2852	0.10	0.4	2.35e-02	5.7	5.7	3.9	3.9	129.3	61.7	-129.4	86.8	-95.6	-196.4
10	ok 2853	0.10	0.3	8.90e-03	5.7	5.7	3.9	3.9	134.0	96.1	-72.8	79.0	-38.3	-247.6
10	ok 2854	0.10	0.3	3.42e-04	5.7	5.7	3.9	3.9	133.4	109.7	-19.3	56.7	-10.0	-283.6
10	ok 2855	0.10	0.2	0.0	5.7	5.7	3.9	3.9	107.7	94.7	78.9	134.8	42.2	-288.5
10	ok 2856	0.10	0.3	6.89e-03	5.7	5.7	3.9	3.9	135.0	51.3	117.2	-39.0	-70.4	-276.1
10	ok 2857	0.10	0.4	2.09e-02	5.7	5.7	3.9	3.9	143.2	15.4	122.5	69.1	94.0	-324.9
10	ok 2858	0.10	0.4	6.40e-02	5.7	5.7	3.9	3.9	76.8	-127.6	236.8	264.0	385.8	-100.2
10	ok 2859	0.10	0.5	0.1	5.7	5.7	3.9	3.9	-293.5	-174.3	371.3	258.3	793.6	130.9
10	ok 3109	0.10	0.7	6.26e-02	5.8	5.7	4.1	3.9	-191.1	19.0	-171.1	-377.6	-999.1	224.1
10	ok 3110	0.10	0.2	6.32e-02	5.7	5.7	3.9	3.9	-75.7	-5.9	-107.0	-211.7	-462.5	124.2
10	ok 3111	0.10	0.3	5.50e-02	5.7	5.7	3.9	3.9	31.4	-64.0	-229.4	-64.8	-282.2	-88.6
10	ok 3112	0.10	0.4	3.94e-02	5.7	5.7	3.9	3.9	70.4	-61.9	-157.1	-6.1	-213.7	-200.2
10	ok 3113	0.10	0.3	2.65e-02	5.7	5.7	3.9	3.9	78.4	-57.6	-96.9	18.9	-128.6	-268.8
10	ok 3114	0.10	0.3	1.69e-02	5.7	5.7	3.9	3.9	57.0	-30.8	-75.3	266.4	83.2	-208.4
10	ok 3115	0.10	0.3	2.13e-02	5.7	5.7	3.9	3.9	67.6	-47.4	89.8	-186.8	-123.8	-235.9
10	ok 3116	0.10	0.3	3.78e-02	5.7	5.7	3.9	3.9	92.9	-69.6	107.8	117.3	83.1	-282.6
10	ok 3117	0.10	0.3	5.17e-02	5.7	5.7	3.9	3.9	69.8	-102.3	194.7	196.1	184.6	-200.3
10	ok 3118	0.10	0.4	7.93e-02	5.7	5.7	3.9	3.9	-41.0	-91.0	258.3	304.4	511.3	-194.8
10	ok 3119	0.11	0.8	9.36e-02	5.7	6.1	3.9	4.4	-228.5	-9.5	245.7	340.1	1362.6	18.6
10	ok 3369	0.10	0.8	7.70e-02	5.8	5.7	4.0	3.9	141.6	39.0	-175.7	-276.2	-997.4	75.1
10	ok 3370	0.10	0.6	5.69e-02	5.7	5.7	3.9	3.9	22.1	-107.3	-120.0	-158.9	-698.0	122.9
10	ok 3371	0.10	0.1	5.77e-02	5.7	5.7	3.9	3.9	8.4	-106.6	-189.7	-83.6	-439.2	-75.4
10	ok 3372	0.10	0.1	5.44e-02	5.7	5.7	3.9	3.9	12.8	-161.0	-138.3	-66.5	-338.9	-183.4
10	ok 3373	0.10	0.2	5.00e-02	5.7	5.7	3.9	3.9	15.8	-194.7	-79.3	-30.9	-209.0	-254.4
10	ok 3374	0.10	0.2	4.74e-02	5.7	5.7	3.9	3.9	16.8	-211.2	-17.8	5.5	-89.4	-289.7
10	ok 3375	0.10	0.2	4.87e-02	5.7	5.7	3.9	3.9	18.1	-210.6	39.2	45.4	26.6	-286.4
10	ok 3376	0.10	0.1	5.38e-02	5.7	5.7	3.9	3.9	18.1	-192.6	104.4	89.5	147.5	-243.1
10	ok 3377	0.10	0.1	7.88e-02	5.7	5.7	3.9	3.9	16.9	-150.4	167.2	103.8	271.3	-178.3
10	ok 3378	0.10	0.6	6.30e-02	5.7	5.7	3.9	3.9	109.3	-102.0	190.2	330.6	404.6	1.7
10	ok 3379	0.10	0.8	6.32e-02	5.7	6.0	3.9	4.3	-198.2	-58.9	146.8	711.0	1819.7	-259.8
10	ok 3765	0.12	0.8	6.01e-02	7.4	6.4	6.4	4.7	243.1	249.6	-169.7	108.9	-729.3	99.4
10	ok 3766	0.11	0.8	3.83e-02	6.5	5.7	4.8	3.9	25.7	137.9	-245.9	-6.5	-547.5	-103.3
10	ok 3767	0.10	0.1	5.46e-02	5.7	5.7	3.9	3.9	-28.3	-229.4	-60.7	-136.0	-605.1	16.8
10	ok 3768	0.10	9.51e-02	6.28e-02	5.7	5.7	3.9	3.9	-19.7	-243.5	-86.3	-93.6	-371.3	-106.8
10	ok 3769	0.10	8.17e-02	7.20e-02	5.7	5.7	3.9	3.9	-19.6	-311.4	-63.3	-60.4	-229.2	-147.7
10	ok 3770	0.10	8.47e-02	7.63e-02	5.7	5.7	3.9	3.9	-19.7	-342.4	-21.7	-20.9	-95.0	-168.5
10	ok 3771	0.10	8.41e-02	7.56e-02	5.7	5.7	3.9	3.9	-19.5	-336.0	37.8	19.1	35.0	-168.2
10	ok 3772	0.10	7.97e-02	6.93e-02	5.7	5.7	3.9	3.9	-20.0	-290.0	64.9	38.5	168.2	-149.6
10	ok 3773	0.10	0.1	6.48e-02	5.7	5.7	3.9	3.9	-23.1	-202.8	104.4	1.1	298.4	-126.0
10	ok 3774	0.12	0.7	7.56e-02	7.0	7.9	5.2	6.1	332.8	217.6	170.4	-256.2	522.2	208.4
10	ok 3775	0.10	0.1	0.1	5.7	5.7	3.9	3.9	-320.1	199.4	-13.4	-76.6	70.1	-305.4
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N z**	**N o**	**N zo**	**M z**	**M o**	**M zo**
									-372.92	-342.43	-293.35	-384.64	-999.10	-324.88
Min		0.12	0.85	0.13	7.42	7.88	6.38	6.15	332.78	314.34	371.29	711.01	1819.69	476.36
Max														

....

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
19	ok 2714	0.10	0.1	0.1	5.7	5.7	3.9	3.9	-428.4	-106.5	-255.7	20.4	222.1	-1.6
19	ok 2715	0.11	0.8	3.19e-02	6.7	5.8	5.0	4.1	191.0	126.7	-209.3	-264.4	-151.8	109.9
19	ok 2716	0.11	0.7	8.05e-03	6.5	5.9	4.8	4.2	178.6	182.0	-158.9	-361.5	-103.7	85.2
19	ok 2717	0.12	0.8	0.0	6.9	6.2	4.9	4.5	177.2	214.2	-123.8	-414.4	-104.8	59.8
19	ok 2718	0.12	0.8	0.0	6.9	6.1	4.7	4.4	173.3	235.0	-84.9	-437.7	-109.0	36.4
19	ok 2719	0.11	0.8	0.0	6.6	5.8	4.3	4.1	171.3	244.5	19.4	-448.6	-112.1	16.1
19	ok 2720	0.11	0.8	0.0	6.7	6.0	4.4	4.3	172.3	241.9	61.6	-453.2	-114.0	-7.1
19	ok 2721	0.12	0.8	0.0	6.8	6.1	4.8	4.4	176.2	226.9	102.1	-445.1	-114.8	-38.1
19	ok 2722	0.11	0.8	2.61e-03	6.5	5.9	4.8	4.1	169.6	194.0	77.3	-414.9	-115.4	-74.4
19	ok 2723	0.11	0.7	2.05e-02	6.2	5.7	4.5	3.9	168.1	140.2	176.8	-351.5	-89.8	-146.2
19	ok 2724	0.10	9.46e-02	6.65e-02	5.7	5.7	3.9	3.9	-210.4	-64.5	146.5	-124.8	-62.0	14.5
19	ok 3002	0.10	0.5	9.37e-02	5.7	5.7	3.9	3.9	-265.1	30.6	-275.9	102.8	319.5	-55.2
19	ok 3003	0.10	0.4	7.37e-02	5.7	5.7	3.9	3.9	17.4	-10.1	-255.4	-41.6	49.7	2.9
19	ok 3004	0.10	0.5	3.08e-02	5.7	5.7	3.9	3.9	116.0	5.8	-178.6	-140.5	-60.2	45.7
19	ok 3005	0.10	0.4	1.51e-02	5.7	5.7	3.9	3.9	127.1	53.8	-116.2	-204.8	-64.7	66.4
19	ok 3006	0.10	0.3	4.02e-03	5.7	5.7	3.9	3.9	123.5	76.1	-61.6	-241.5	-79.9	64.7
19	ok 3007	0.10	0.2	0.0	5.7	5.7	3.9	3.9	120.3	83.9	-7.5	-254.3	-88.6	56.7
19	ok 3008	0.10	0.2	0.0	5.7	5.7	3.9	3.9	121.5	80.1	32.7	-246.5	-95.2	43.4
19	ok 3009	0.10	0.2	1.14e-02	5.7	5.7	3.9	3.9	123.1	63.4	90.1	-234.6	-107.6	-21.5
19	ok 3010	0.10	0.4	2.48e-02	5.7	5.7	3.9	3.9	116.3	25.1	153.6	-164.6	-103.7	-39.3
19	ok 3011	0.10	0.4	5.45e-02	5.7	5.7	3.9	3.9	45.3	-45.6	243.7	-6.0	-88.3	-9.5
19	ok 3012	0.10	0.5	8.15e-02	5.7	5.7	3.9	3.9	-125.3	-34.0	289.5	167.6	447.3	53.8
19	ok 3262	0.10	0.6	5.62e-02	5.7	5.7	3.9	3.9	-108.4	10.1	-199.9	67.4	258.9	-30.4
19	ok 3263	0.10	0.2	6.00e-02	5.7	5.7	3.9	3.9	-27.8	-33.9	-243.1	22.1	93.1	-55.7
19	ok 3264	0.10	0.3	5.05e-02	5.7	5.7	3.9	3.9	60.8	-53.9	-219.6	-32.7	-9.2	-30.8
19	ok 3265	0.10	0.4	3.49e-02	5.7	5.7	3.9	3.9	75.6	-52.1	-153.7	-84.7	-49.8	-9.2
19	ok 3266	0.10	0.3	2.16e-02	5.7	5.7	3.9	3.9	66.0	-54.6	-84.4	-116.7	-67.2	6.0
19	ok 3267	0.10	0.3	1.37e-02	5.7	5.7	3.9	3.9	55.5	-50.7	23.0	207.7	34.3	-128.2
19	ok 3268	0.10	0.3	2.02e-02	5.7	5.7	3.9	3.9	52.9	-48.9	63.8	203.8	37.0	-107.9
19	ok 3269	0.10	0.3	2.95e-02	5.7	5.7	3.9	3.9	72.3	-47.3	106.3	-96.4	-79.6	65.2
19	ok 3270	0.10	0.3	4.26e-02	5.7	5.7	3.9	3.9	56.1	-43.8	187.1	-35.4	-58.0	47.2
19	ok 3271	0.10	0.2	5.47e-02	5.7	5.7	3.9	3.9	-3.1	-25.3	234.9	38.0	45.1	70.9
19	ok 3272	0.10	0.6	5.68e-02	5.7	5.7	3.9	3.9	-51.8	22.8	215.6	84.1	246.3	14.2
19	ok 3522	0.10	0.4	4.79e-02	5.7	5.7	3.9	3.9	-41.6	-27.1	-167.2	-42.1	712.6	-94.7
19	ok 3523	0.10	0.4	5.20e-02	5.7	5.7	3.9	3.9	41.5	-3.5	-224.1	65.8	385.9	-154.4
19	ok 3524	0.10	6.71e-02	5.31e-02	5.7	5.7	3.9	3.9	15.5	-118.1	-86.3	52.8	-129.5	-62.6
19	ok 3525	0.10	0.1	4.94e-02	5.7	5.7	3.9	3.9	15.4	-145.9	-131.5	-11.1	-4.2	-36.1
19	ok 3526	0.10	0.1	4.55e-02	5.7	5.7	3.9	3.9	15.6	-177.4	-74.8	-25.5	-24.3	-8.5
19	ok 3527	0.10	0.1	4.32e-02	5.7	5.7	3.9	3.9	14.5	-190.9	-19.5	-31.7	-36.5	14.9
19	ok 3528	0.10	0.1	4.40e-02	5.7	5.7	3.9	3.9	1.6	-176.3	57.8	161.9	49.4	-111.3
19	ok 3529	0.10	0.1	4.66e-02	5.7	5.7	3.9	3.9	9.3	-162.6	97.0	-22.1	-52.3	81.4
19	ok 3530	0.10	9.45e-02	4.88e-02	5.7	5.7	3.9	3.9	1.8	-119.6	138.5	-14.6	-51.1	90.7
19	ok 3531	0.10	0.1	4.72e-02	5.7	5.7	3.9	3.9	3.6	-54.8	184.0	20.1	23.5	86.9
19	ok 3532	0.10	0.3	3.72e-02	5.7	5.7	3.9	3.9	-13.1	4.8	165.5	31.2	94.3	12.6
19	ok 4179	0.11	0.8	1.12e-02	5.7	6.7	3.9	5.0	49.2	225.0	-151.6	-109.6	558.9	-36.6
19	ok 4180	0.10	0.7	4.24e-02	5.7	5.9	3.9	4.1	51.3	122.8	-190.3	90.9	428.2	-97.0
19	ok 4181	0.10	0.1	5.51e-02	5.7	5.7	3.9	3.9	-18.7	-240.1	-43.1	-69.6	-216.9	-43.3
19	ok 4182	0.10	7.55e-02	6.20e-02	5.7	5.7	3.9	3.9	-19.8	-232.7	-74.3	31.2	23.2	-22.5
19	ok 4183	0.10	7.87e-02	6.67e-02	5.7	5.7	3.9	3.9	-19.5	-290.4	-54.3	30.2	3.3	-6.2
19	ok 4184	0.10	8.11e-02	7.02e-02	5.7	5.7	3.9	3.9	-19.6	-315.0	-18.0	28.1	-9.8	8.8
19	ok 4185	0.10	8.03e-02	6.91e-02	5.7	5.7	3.9	3.9	-19.6	-307.4	34.2	27.3	-16.3	23.0
19	ok 4186	0.10	7.58e-02	6.33e-02	5.7	5.7	3.9	3.9	-19.3	-267.8	68.6	24.2	-16.5	37.2
19	ok 4187	0.10	6.75e-02	5.33e-02	5.7	5.7	3.9	3.9	-18.9	-197.3	98.7	10.1	-11.9	48.9
19	ok 4188	0.10	6.31e-02	4.31e-02	5.7	5.7	3.9	3.9	-10.3	-105.3	129.7	-11.5	0.9	49.9
19	ok 4189	0.10	0.1	1.13e-02	5.7	5.7	3.9	3.9	33.8	32.0	73.5	-1.5	6.3	8.4
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N z**	**N o**	**N zo**	**M z**	**M o**	**M zo**
Min									-428.35	-315.05	-275.89	-453.21	-216.94	-154.38
Max		0.12	0.84	0.12	6.91	6.73	4.98	5.01	190.95	244.50	289.46	207.71	712.61	109.88

L’armatura delle pareti è costituita da una maglia base di 1+1ϕ12/20 vert. e 1+1ϕ10/20 oriz., a cui si aggiungono ferri alternati ove necessario.

2.16.4 STATI LIMITE D' ESERCIZIO

TABELLA STATI LIMITE D' ESERCIZIO

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2707	0.12	0.73	0.0	97,97,0	0.0	0.0	0.0	0,0,0
2708	0.15	0.73	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2709	0.18	0.73	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2710	0.19	0.73	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2711	0.20	0.73	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2712	0.20	0.73	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2713	0.20	0.73	0.0	99,97,0	0.0	0.0	0.0	0,0,0
2714	0.19	0.72	0.0	99,99,0	0.0	0.0	0.0	0,0,0
2715	0.15	0.72	0.0	99,98,0	0.0	0.0	0.0	0,0,0
2716	0.07	0.67	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2725	0.10	0.67	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2726	0.13	0.72	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2727	0.16	0.73	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2728	0.17	0.73	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2729	0.18	0.73	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2730	0.18	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2731	0.18	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2732	0.16	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2733	0.14	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2734	0.12	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2743	0.11	0.73	0.0	100,100,0	0.0	0.0	0.0	0,0,0
2744	0.14	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2745	0.16	0.72	0.0	96,96,0	0.0	0.0	0.0	0,0,0
2746	0.17	0.72	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2747	0.18	0.74	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2748	0.18	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2749	0.17	0.72	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2750	0.16	0.72	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2751	0.14	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2752	0.08	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2761	0.10	0.68	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2762	0.13	0.72	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2763	0.16	0.73	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2764	0.17	0.72	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2765	0.18	0.72	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2766	0.18	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2767	0.18	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2768	0.16	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2769	0.14	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2770	0.09	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2779	0.10	0.73	0.0	95,97,0	0.0	0.0	0.0	0,0,0
2780	0.13	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2781	0.16	0.72	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2782	0.17	0.72	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2783	0.18	0.72	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2784	0.18	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2785	0.17	0.72	0.0	96,99,0	0.0	0.0	0.0	0,0,0
2786	0.16	0.72	0.0	96,99,0	0.0	0.0	0.0	0,0,0
2787	0.14	0.73	0.0	98,99,0	0.0	0.0	0.0	0,0,0
2788	0.08	0.73	0.0	96,100,0	0.0	0.0	0.0	0,0,0
2797	0.08	0.67	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2798	0.13	0.72	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2799	0.16	0.73	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2800	0.17	0.72	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2801	0.18	0.72	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2802	0.18	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2803	0.18	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2804	0.16	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2805	0.13	0.73	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2806	0.09	0.73	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2815	0.09	0.73	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2816	0.13	0.73	0.0	96,97,0	0.0	0.0	0.0	0,0,0
2817	0.16	0.73	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2818	0.17	0.72	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2819	0.18	0.72	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2820	0.18	0.73	0.0	99,100,0	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2821	0.17	0.72	0.0	96,99,0	0.0	0.0	0.0	0,0,0
2822	0.16	0.72	0.0	96,99,0	0.0	0.0	0.0	0,0,0
2823	0.14	0.73	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2824	0.07	0.73	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2833	0.07	0.66	0.0	95,98,0	0.0	0.0	0.0	0,0,0
2834	0.12	0.72	0.0	95,99,0	0.0	0.0	0.0	0,0,0
2835	0.16	0.73	0.0	98,99,0	0.0	0.0	0.0	0,0,0
2836	0.17	0.72	0.0	98,99,0	0.0	0.0	0.0	0,0,0
2837	0.17	0.72	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2838	0.18	0.73	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2839	0.18	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2840	0.16	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2841	0.13	0.73	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2842	0.08	0.73	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2851	0.08	0.73	0.0	100,100,0	0.0	0.0	0.0	0,0,0
2852	0.13	0.73	0.0	96,95,0	0.0	0.0	0.0	0,0,0
2853	0.16	0.72	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2854	0.17	0.72	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2855	0.18	0.72	0.0	99,95,0	0.0	0.0	0.0	0,0,0
2856	0.18	0.73	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2857	0.17	0.72	0.0	96,99,0	0.0	0.0	0.0	0,0,0
2858	0.16	0.72	0.0	96,99,0	0.0	0.0	0.0	0,0,0
2859	0.14	0.73	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2860	0.07	0.73	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2869	0.07	0.64	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2870	0.12	0.72	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2871	0.16	0.72	0.0	96,99,0	0.0	0.0	0.0	0,0,0
2872	0.17	0.72	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2873	0.17	0.72	0.0	96,98,0	0.0	0.0	0.0	0,0,0
2874	0.18	0.73	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2875	0.18	0.73	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2876	0.16	0.72	0.0	99,99,0	0.0	0.0	0.0	0,0,0
2877	0.13	0.73	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2878	0.08	0.73	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2887	0.08	0.73	0.0	99,100,0	0.0	0.0	0.0	0,0,0
2888	0.14	0.72	0.0	98,96,0	0.0	0.0	0.0	0,0,0
2889	0.17	0.72	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2890	0.18	0.73	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2891	0.19	0.74	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2892	0.20	0.75	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2893	0.19	0.73	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2894	0.18	0.73	0.0	98,98,0	0.0	0.0	0.0	0,0,0
2895	0.15	0.72	0.0	98,96,0	0.0	0.0	0.0	0,0,0
2896	0.08	0.73	0.0	98,100,0	0.0	0.0	0.0	0,0,0
2980	0.17	0.74	0.0	95,95,0	0.0	0.0	0.0	0,0,0
2981	0.05	0.70	0.0	96,97,0	0.0	0.0	0.0	0,0,0
2982	0.07	0.69	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2983	0.08	0.66	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2984	0.08	0.61	0.0	98,97,0	0.0	0.0	0.0	0,0,0
2985	0.08	0.53	0.0	95,97,0	0.0	0.0	0.0	0,0,0
2986	0.08	0.42	0.0	95,97,0	0.0	0.0	0.0	0,0,0
2987	0.08	0.47	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2988	0.06	0.53	0.0	95,100,0	0.0	0.0	0.0	0,0,0
2989	0.15	0.65	0.0	96,96,0	0.0	0.0	0.0	0,0,0
2998	0.15	0.58	0.0	96,96,0	0.0	0.0	0.0	0,0,0
2999	0.05	0.65	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3000	0.07	0.60	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3001	0.07	0.56	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3002	0.08	0.48	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3003	0.08	0.39	0.0	95,97,0	0.0	0.0	0.0	0,0,0
3004	0.08	0.48	0.0	95,97,0	0.0	0.0	0.0	0,0,0
3005	0.07	0.52	0.0	96,97,0	0.0	0.0	0.0	0,0,0
3006	0.05	0.56	0.0	96,97,0	0.0	0.0	0.0	0,0,0
3007	0.20	0.75	0.0	95,95,0	0.0	0.0	0.0	0,0,0
3016	0.16	0.66	0.0	95,97,0	0.0	0.0	0.0	0,0,0
3017	0.05	0.62	0.0	96,100,0	0.0	0.0	0.0	0,0,0
3018	0.06	0.58	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3019	0.07	0.53	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3020	0.08	0.45	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3021	0.08	0.38	0.0	95,97,0	0.0	0.0	0.0	0,0,0
3022	0.08	0.48	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3023	0.07	0.54	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3024	0.06	0.58	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3025	0.15	0.67	0.0	96,100,0	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
3034	0.13	0.58	0.0	96,99,0	0.0	0.0	0.0	0,0,0
3035	0.05	0.69	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3036	0.07	0.62	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3037	0.07	0.56	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3038	0.07	0.47	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3039	0.07	0.36	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3040	0.07	0.42	0.0	95,97,0	0.0	0.0	0.0	0,0,0
3041	0.07	0.48	0.0	96,100,0	0.0	0.0	0.0	0,0,0
3042	0.05	0.51	0.0	96,100,0	0.0	0.0	0.0	0,0,0
3043	0.17	0.65	0.0	95,95,0	0.0	0.0	0.0	0,0,0
3052	0.14	0.68	0.0	95,97,0	0.0	0.0	0.0	0,0,0
3053	0.05	0.65	0.0	96,97,0	0.0	0.0	0.0	0,0,0
3054	0.06	0.60	0.0	98,97,0	0.0	0.0	0.0	0,0,0
3055	0.07	0.54	0.0	98,97,0	0.0	0.0	0.0	0,0,0
3056	0.08	0.44	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3057	0.08	0.34	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3058	0.07	0.44	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3059	0.07	0.51	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3060	0.05	0.55	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3061	0.12	0.64	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3070	0.12	0.56	0.0	96,99,0	0.0	0.0	0.0	0,0,0
3071	0.05	0.69	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3072	0.07	0.63	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3073	0.07	0.56	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3074	0.07	0.46	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3075	0.07	0.35	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3076	0.07	0.40	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3077	0.06	0.46	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3078	0.05	0.50	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3079	0.14	0.58	0.0	98,97,0	0.0	0.0	0.0	0,0,0
3088	0.13	0.68	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3089	0.05	0.64	0.0	96,97,0	0.0	0.0	0.0	0,0,0
3090	0.06	0.59	0.0	98,97,0	0.0	0.0	0.0	0,0,0
3091	0.07	0.53	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3092	0.07	0.43	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3093	0.07	0.33	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3094	0.07	0.43	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3095	0.07	0.51	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3096	0.05	0.55	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3097	0.11	0.63	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3106	0.10	0.54	0.0	99,99,0	0.0	0.0	0.0	0,0,0
3107	0.05	0.68	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3108	0.07	0.62	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3109	0.07	0.55	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3110	0.07	0.45	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3111	0.07	0.34	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3112	0.07	0.41	0.0	99,97,0	0.0	0.0	0.0	0,0,0
3113	0.06	0.47	0.0	99,97,0	0.0	0.0	0.0	0,0,0
3114	0.05	0.51	0.0	99,97,0	0.0	0.0	0.0	0,0,0
3115	0.12	0.58	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3124	0.12	0.66	0.0	98,97,0	0.0	0.0	0.0	0,0,0
3125	0.05	0.62	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3126	0.06	0.58	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3127	0.07	0.51	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3128	0.07	0.41	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3129	0.07	0.34	0.0	98,97,0	0.0	0.0	0.0	0,0,0
3130	0.07	0.45	0.0	98,97,0	0.0	0.0	0.0	0,0,0
3131	0.06	0.53	0.0	98,100,0	0.0	0.0	0.0	0,0,0
3132	0.05	0.57	0.0	96,100,0	0.0	0.0	0.0	0,0,0
3133	0.10	0.64	0.0	95,100,0	0.0	0.0	0.0	0,0,0
3142	0.11	0.52	0.0	95,98,0	0.0	0.0	0.0	0,0,0
3143	0.05	0.66	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3144	0.07	0.60	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3145	0.07	0.53	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3146	0.07	0.43	0.0	99,100,0	0.0	0.0	0.0	0,0,0
3147	0.07	0.33	0.0	99,97,0	0.0	0.0	0.0	0,0,0
3148	0.07	0.43	0.0	96,97,0	0.0	0.0	0.0	0,0,0
…								
3693	0.07	0.41	0.0	99,99,0	0.0	0.0	0.0	0,0,0
	rRfck	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
Max	0.20	0.75	0.0		0.0	0.0	0.0	

2.17 SOPPALCO COMPRESSORI

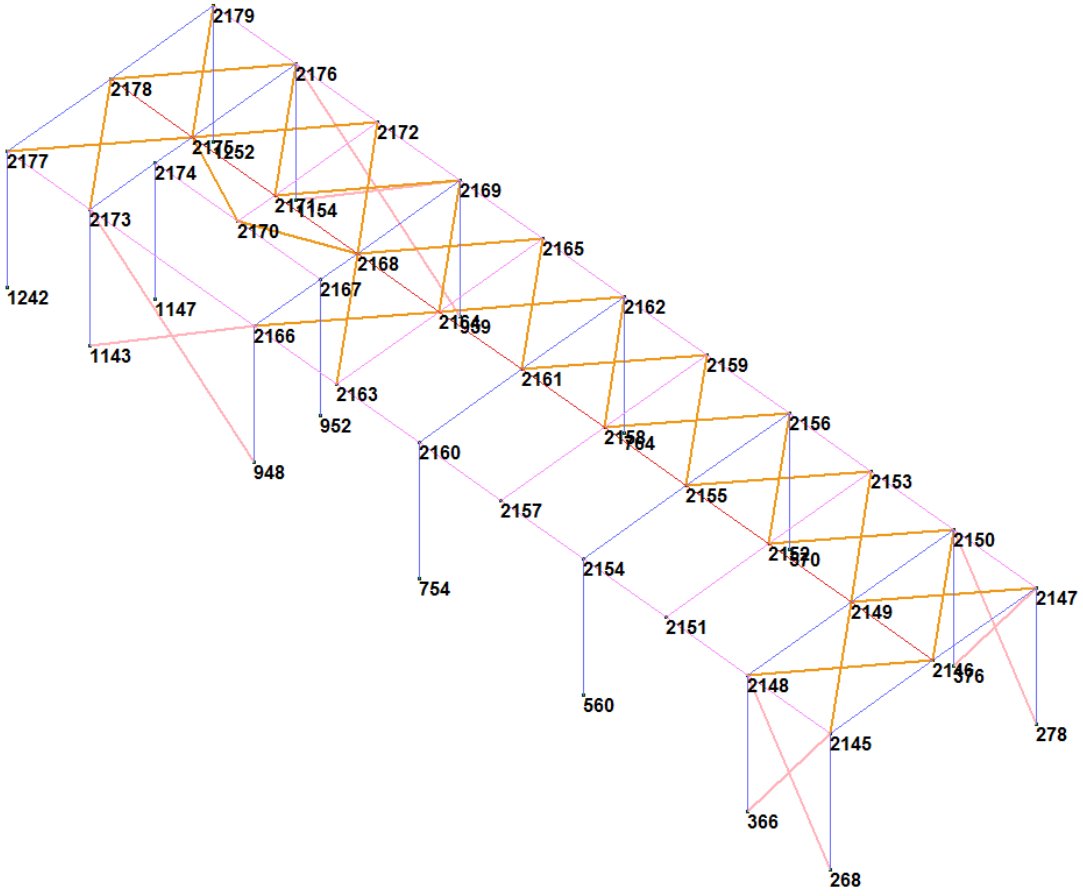
Il soppalco compressori ha struttura metallica costituita da telai trasversali in profili HEA240, controventi longitudinali costituiti da crociere in profilo UPN140, travi longitudinali e trasversali in profilo HEA340, controvento di piano costituito da correnti IPE200 e crociere L80x8.

2.17.1 MODELLAZIONE STRUTTURA: NODI

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
268	207.5	980.0	0.0	278	1007.5	980.0	0.0	366	207.5	1300.0	0.0
376	1007.5	1300.0	0.0	560	207.5	1940.0	0.0	570	1007.5	1940.0	0.0
754	207.5	2580.0	0.0	764	1007.5	2580.0	0.0	948	207.5	3220.0	0.0
952	462.5	3220.0	0.0	959	1007.5	3220.0	0.0	1143	207.5	3860.0	0.0
1147	462.5	3860.0	0.0	1154	1007.5	3860.0	0.0	1242	207.5	4180.0	0.0
1252	1007.5	4180.0	0.0	2145	207.5	980.0	530.0	2146	607.5	980.0	530.0
2147	1007.5	980.0	530.0	2148	207.5	1300.0	530.0	2149	607.5	1300.0	530.0
2150	1007.5	1300.0	530.0	2151	207.5	1620.0	530.0	2152	607.5	1620.0	530.0
2153	1007.5	1620.0	530.0	2154	207.5	1940.0	530.0	2155	607.5	1940.0	530.0
2156	1007.5	1940.0	530.0	2157	207.5	2260.0	530.0	2158	607.5	2260.0	530.0
2159	1007.5	2260.0	530.0	2160	207.5	2580.0	530.0	2161	607.5	2580.0	530.0
2162	1007.5	2580.0	530.0	2163	207.5	2900.0	530.0	2164	607.5	2900.0	530.0
2165	1007.5	2900.0	530.0	2166	207.5	3220.0	530.0	2167	462.5	3220.0	530.0
2168	607.5	3220.0	530.0	2169	1007.5	3220.0	530.0	2170	462.5	3540.0	530.0
2171	607.5	3540.0	530.0	2172	1007.5	3540.0	530.0	2173	207.5	3860.0	530.0
2174	462.5	3860.0	530.0	2175	607.5	3860.0	530.0	2176	1007.5	3860.0	530.0
2177	207.5	4180.0	530.0	2178	607.5	4180.0	530.0	2179	1007.5	4180.0	530.0

Numerazione nodi



2.17.2 MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

TABELLA DATI TRAVI

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Asta	2145	366	11	8					
2	Asta	268	2148	11	8					
3	Asta	2147	376	11	8					
4	Asta	278	2150	11	8					
5	Asta	948	2173	11	8					
6	Asta	2166	1143	11	8					
7	Asta	959	2176	11	8					
8	Asta	2169	1154	11	8					
9	Asta	2145	2149	11	10					
10	Asta	2148	2146	11	10					
11	Asta	2146	2150	11	10					
12	Asta	2149	2147	11	10					
13	Asta	2149	2153	11	10					
14	Asta	2152	2150	11	10					
15	Asta	2152	2156	11	10					
16	Asta	2155	2153	11	10					
17	Asta	2155	2159	11	10					
18	Asta	2158	2156	11	10					
19	Asta	2158	2162	11	10					
20	Asta	2161	2159	11	10					
21	Asta	2161	2165	11	10					
22	Asta	2164	2162	11	10					
23	Asta	2163	2168	11	10					
24	Asta	2166	2164	11	10					
25	Asta	2164	2169	11	10					
26	Asta	2168	2165	11	10					
27	Asta	2170	2168	11	10					
28	Asta	2168	2172	11	10					
29	Asta	2171	2169	11	10					
30	Asta	2170	2175	11	10					
31	Asta	2171	2176	11	10					
32	Asta	2175	2172	11	10					
33	Asta	2173	2178	11	10					
34	Asta	2177	2175	11	10					
35	Asta	2175	2179	11	10					
36	Asta	2178	2176	11	10					
37	Pilas.	268	2145	11	6					
38	Pilas.	278	2147	11	6					
39	Pilas.	366	2148	11	6					
40	Pilas.	376	2150	11	6					
41	Pilas.	560	2154	11	6					
42	Pilas.	570	2156	11	6					
43	Pilas.	754	2160	11	6					
44	Pilas.	764	2162	11	6					
45	Pilas.	948	2166	11	6					
46	Pilas.	952	2167	11	6					
47	Pilas.	959	2169	11	6					
48	Pilas.	1143	2173	11	6					
49	Pilas.	1147	2174	11	6					
50	Pilas.	1154	2176	11	6					
51	Pilas.	1242	2177	11	6					
52	Pilas.	1252	2179	11	6					
60	Trave	2145	2146	11	6					
61	Trave	2146	2147	11	6					
62	Trave	2145	2148	11	7		000011	000011		
63	Trave	2146	2149	11	9		000011	000011		
64	Trave	2147	2150	11	7		000011	000011		
65	Trave	2148	2149	11	6					
66	Trave	2149	2150	11	6					
67	Trave	2148	2151	11	7		000011			
68	Trave	2149	2152	11	9		000011	000011		
69	Trave	2150	2153	11	7		000011			
70	Trave	2151	2152	11	7		000011			
71	Trave	2152	2153	11	7			000011		
72	Trave	2151	2154	11	7			000011		
73	Trave	2152	2155	11	9		000011	000011		
74	Trave	2153	2156	11	7			000011		

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
75	Trave	2154	2155	11	6					
76	Trave	2155	2156	11	6					
77	Trave	2154	2157	11	7		000011			
78	Trave	2155	2158	11	9		000011	000011		
79	Trave	2156	2159	11	7		000011			
80	Trave	2157	2158	11	7		000011			
81	Trave	2158	2159	11	7			000011		
82	Trave	2157	2160	11	7			000011		
83	Trave	2158	2161	11	9		000011	000011		
84	Trave	2159	2162	11	7			000011		
85	Trave	2160	2161	11	6					
86	Trave	2161	2162	11	6					
87	Trave	2160	2163	11	7		000011			
88	Trave	2161	2164	11	9		000011	000011		
89	Trave	2162	2165	11	7		000011			
90	Trave	2163	2164	11	7		000011			
91	Trave	2164	2165	11	7			000011		
92	Trave	2163	2166	11	7			000011		
93	Trave	2164	2168	11	9		000011	000011		
94	Trave	2165	2169	11	7			000011		
95	Trave	2166	2167	11	6					
96	Trave	2167	2168	11	6					
97	Trave	2168	2169	11	6					
98	Trave	2167	2170	11	7		000011			
99	Trave	2168	2171	11	9		000011	000011		
100	Trave	2169	2172	11	7		000011			
101	Trave	2166	2173	11	7		000011	000011		
102	Trave	2170	2171	11	7		000011			
103	Trave	2171	2172	11	7			000011		
104	Trave	2170	2174	11	7			000011		
105	Trave	2171	2175	11	9		000011	000011		
106	Trave	2172	2176	11	7			000011		
107	Trave	2173	2174	11	6					
108	Trave	2174	2175	11	6					
109	Trave	2175	2176	11	6					
110	Trave	2173	2177	11	7		000011	000011		
111	Trave	2175	2178	11	9		000011	000011		
112	Trave	2176	2179	11	7		000011	000011		
113	Trave	2177	2178	11	6					
114	Trave	2178	2179	11	6					

2.17.3 VERIFICHE PER ELEMENTI IN ACCIAIO

TABELLA VERIFICHE PER ELEMENTI N ACCIAIO

Asta	Stato	Note	V N	N	V stab	N	Cl.	Beta x L	Snell.	LambDaS	Chi mn	v.Omeg	Rif. cmb
				daN		daN		cm					
1	ok	s=8,m=11	0.28	-1.479e+04			1	619.1	353.7	4.07	0.05	0.0	41,0
2	ok	s=8,m=11	0.24	-1.299e+04			1	619.1	353.7	4.07	0.05	0.0	40,0
3	ok	s=8,m=11	0.30	-1.595e+04			1	619.1	353.7	4.07	0.05	0.0	43,0
4	ok	s=8,m=11	0.24	1.281e+04			1	619.1	353.7	4.07	0.05	0.0	43,0
5	ok	s=8,m=11	0.27	-1.423e+04			1	831.0	474.7	5.47	0.03	0.0	46,0
6	ok	s=8,m=11	0.27	1.422e+04			1	831.0	474.7	5.47	0.03	0.0	40,0
7	ok	s=8,m=11	0.31	-1.673e+04			1	831.0	474.7	5.47	0.03	0.0	46,0
8	ok	s=8,m=11	0.30	-1.605e+04			1	831.0	474.7	5.47	0.03	0.0	43,0
9	oks	=10,m=11	0.07	-2222.3			3	512.2	167.6	3.81	0.06	0.0	46,0
10	oks	=10,m=11	0.07	-2187.6			3	512.2	167.6	3.81	0.06	0.0	45,0
11	oks	=10,m=11	0.07	-2206.7			3	512.2	167.6	3.81	0.06	0.0	45,0
12	oks	=10,m=11	0.07	-2352.2			3	512.2	167.6	3.81	0.06	0.0	44,0
13	oks	=10,m=11	0.07	-2116.1			3	512.2	167.6	3.81	0.06	0.0	45,0
14	oks	=10,m=11	0.08	-2511.8			3	512.2	167.6	3.81	0.06	0.0	44,0
15	oks	=10,m=11	0.08	-2455.7			3	512.2	167.6	3.81	0.06	0.0	45,0
16	oks	=10,m=11	0.08	2622.6			1	512.2	167.6	3.81	0.06	0.0	45,0
17	oks	=10,m=11	0.08	2607.0			1	512.2	167.6	3.81	0.06	0.0	44,0
18	oks	=10,m=11	0.09	-2753.5			3	512.2	167.6	3.81	0.06	0.0	44,0
19	oks	=10,m=11	0.09	-2786.9			3	512.2	167.6	3.81	0.06	0.0	45,0
20	oks	=10,m=11	0.09	-2845.0			3	512.2	167.6	3.81	0.06	0.0	44,0
21	oks	=10,m=11	0.09	2959.4			1	512.2	167.6	3.81	0.06	0.0	44,0
22	oks	=10,m=11	0.09	-2985.3			3	512.2	167.6	3.81	0.06	0.0	44,0
23	oks	=10,m=11	0.12	-3829.9			3	512.2	167.6	3.81	0.06	0.0	44,0
24	oks	=10,m=11	0.10	3231.4			1	512.2	167.6	3.81	0.06	0.0	44,0
25	oks	=10,m=11	0.10	3253.8			1	512.2	167.6	3.81	0.06	0.0	44,0
26	oks	=10,m=11	0.11	-3649.9			3	512.2	167.6	3.81	0.06	0.0	44,0
27	oks	=10,m=11	0.08	-2687.0			3	351.3	114.9	2.61	0.13	0.0	24,0
28	oks	=10,m=11	0.05	-1452.9			3	512.2	167.6	3.81	0.06	0.0	24,0
29	oks	=10,m=11	0.04	1190.3			1	512.2	167.6	3.81	0.06	0.0	24,0
30	oks	=10,m=11	0.07	2382.6			1	351.3	114.9	2.61	0.13	0.0	24,0
31	oks	=10,m=11	0.04	-1206.6			3	512.2	167.6	3.81	0.06	0.0	24,0
32	oks	=10,m=11	0.04	1356.3			1	512.2	167.6	3.81	0.06	0.0	24,0
33	oks	=10,m=11	0.11	-3632.5			3	512.2	167.6	3.81	0.06	0.0	44,0
34	oks	=10,m=11	0.13	4044.1			1	512.2	167.6	3.81	0.06	0.0	44,0
35	oks	=10,m=11	0.12	3944.6			1	512.2	167.6	3.81	0.06	0.0	44,0
36	oks	=10,m=11	0.11	-3592.6			3	512.2	167.6	3.81	0.06	0.0	44,0

Asta			V N	N	V stab	N		Beta x L	Snell.	LambDaS	Chi mn	v.Omeg	
				-1.673e+04						2.61	0.03	0.0	
			0.31	1.422e+04				830.96	474.74	5.47		0.0	

Trave	Stato	Note	V V/T	V N/M	V stab	Cl.	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT	Rif. cmb
60	ok	s=6,m=11	0.19	0.49		1					0.49	0.4	1.00	21,30,0,30
61	ok	s=6,m=11	0.19	0.46		1					0.46	0.4	1.00	20,27,0,27
62	ok	s=7,m=11	0.02	7.95e-03		1					3.58e-03	0.4	1.00	22,25,0,22
63	ok	s=9,m=11	2.18e-03	0.01		1					0.01	1.1	0.59	18,45,0,22
64	ok	s=7,m=11	0.02	7.72e-03		1					3.58e-03	0.4	1.00	20,27,0,20
65	ok	s=6,m=11	0.38	0.75		1					0.75	0.4	1.00	21,21,0,21
66	ok	s=6,m=11	0.37	0.74		1					0.74	0.4	1.00	20,21,0,22
67	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	22,20,0,21
68	ok	s=9,m=11	2.70e-03	0.02	0.08	1	1.7	0.4	143.4	0.29	0.01	1.1	0.59	26,45,44,17
69	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	20,21,0,20
70	ok	s=7,m=11	0.21	0.60		1					0.60	0.4	1.00	21,21,0,20
71	ok	s=7,m=11	0.21	0.60		1					0.60	0.4	1.00	21,21,0,21
72	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	22,20,0,20
73	ok	s=9,m=11	2.58e-03	0.02		1					0.01	1.1	0.59	29,41,0,7
74	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	22,21,0,21
75	ok	s=6,m=11	0.37	0.74		1					0.74	0.4	1.00	22,22,0,22
76	ok	s=6,m=11	0.37	0.73		1					0.73	0.4	1.00	3,21,0,22
77	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	20,20,0,22
78	ok	s=9,m=11	2.57e-03	0.01		1					0.01	1.1	0.59	26,41,0,3
79	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	20,21,0,7
80	ok	s=7,m=11	0.21	0.60		1					0.60	0.4	1.00	22,21,0,3
81	ok	s=7,m=11	0.21	0.60		1					0.60	0.4	1.00	22,21,0,22
82	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	20,20,0,3

Trave	Stato	Note	V V/T	V N/M	V stab	Cl.	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT	Rif. cmb
83	ok	s=9,m=11	2.33e-03	0.02		1					0.01	1.1	0.59	36,25,0,1
84	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	20,21,0,22
85	ok	s=6,m=11	0.37	0.74		1					0.74	0.4	1.00	20,20,0,20
86	ok	s=6,m=11	0.37	0.73		1					0.73	0.4	1.00	21,21,0,22
87	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	22,20,0,22
88	ok	s=9,m=11	2.38e-03	0.02	0.08	1	1.7	0.4	143.4	0.29	0.01	1.1	0.59	37,26,23,2
89	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	21,21,0,8
90	ok	s=7,m=11	0.21	0.60		1					0.60	0.4	1.00	4,21,0,3
91	ok	s=7,m=11	0.21	0.60		1					0.60	0.4	1.00	4,21,0,20
92	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	22,20,0,4
93	ok	s=9,m=11	6.46e-03	0.05	0.17	1	1.7	0.4	143.4	0.29	0.01	1.1	0.59	20,24,24,3
94	ok	s=7,m=11	0.11	0.49		1					0.49	0.3	1.00	21,21,0,22
95	ok	s=6,m=11	0.18	0.47		1					0.42	0.3	1.00	32,32,0,32
96	ok	s=6,m=11	0.28	0.49		1					0.47	0.2	1.00	20,33,0,22
97	ok	s=6,m=11	0.23	0.35		1					0.35	0.4	1.00	3,32,0,32
98	ok	s=7,m=11	0.08	0.34		1					0.34	0.3	1.00	20,7,0,22
99	ok	s=9,m=11	2.79e-03	0.03	0.10	1	1.7	0.4	143.4	0.29	0.01	1.1	0.59	38,41,40,17
100	ok	s=7,m=11	0.08	0.34		1					0.34	0.3	1.00	22,22,0,3
101	ok	s=7,m=11	6.37e-03	0.01		1					0.02	0.8	0.86	20,46,0,3
102	ok	s=7,m=11	0.14	0.22		1					0.22	0.2	1.00	22,21,0,21
103	ok	s=7,m=11	0.14	0.28		1					0.28	0.4	1.00	22,21,0,20
104	ok	s=7,m=11	0.08	0.34		1					0.34	0.3	1.00	3,7,0,7
105	ok	s=9,m=11	2.69e-03	0.02	0.09	1	1.7	0.4	143.4	0.29	0.01	1.1	0.59	37,44,45,8
106	ok	s=7,m=11	0.08	0.34		1					0.34	0.3	1.00	22,22,0,22
107	ok	s=6,m=11	0.18	0.44		1					0.40	0.3	1.00	35,32,0,35
108	ok	s=6,m=11	0.28	0.48		1					0.47	0.2	1.00	20,33,0,20
109	ok	s=6,m=11	0.23	0.34		1					0.34	0.4	1.00	3,32,0,32
110	ok	s=7,m=11	0.02	3.58e-03		1					3.58e-03	0.4	1.00	21,3,0,3
111	ok	s=9,m=11	6.36e-03	0.04	0.12	1	1.7	0.4	143.4	0.29	0.01	1.1	0.59	22,40,41,20
112	ok	s=7,m=11	6.25e-03	3.58e-03		1					3.58e-03	0.4	1.00	37,3,0,3
113	ok	s=6,m=11	0.19	0.44		1					0.44	0.4	1.00	20,38,0,38
114	ok	s=6,m=11	0.19	0.42		1					0.42	0.4	1.00	21,35,0,35

Trave	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
							0.29			0.59
	0.38	0.75	0.17	1.65	0.45	143.36		0.75	1.12	

Pilas.	Stato	Note	V V/T	V N/M	V stab	Cl.	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT	Rif. cmb
37	ok	s=6,m=11	0.09	0.50	0.25	1	1.0	0.6	88.3	0.53	0.49	0.4	1.00	30,30,24,30
38	ok	s=6,m=11	0.09	0.47	0.26	1	1.0	0.6	88.3	0.53	0.46	0.4	1.00	27,23,32,27
39	ok	s=6,m=11	0.12	0.75	0.52	1	1.0	0.6	88.3	0.53	0.75	0.5	1.00	30,21,25,21
40	ok	s=6,m=11	0.12	0.72	0.52	1	1.0	0.6	88.3	0.53	0.72	0.5	1.00	27,20,22,20
41	ok	s=6,m=11	0.12	0.76	0.60	1	1.0	0.6	88.3	0.53	0.74	0.5	1.00	29,22,22,22
42	ok	s=6,m=11	0.11	0.73	0.60	1	1.0	0.6	88.3	0.53	0.72	0.5	1.00	28,3,21,3
43	ok	s=6,m=11	0.11	0.75	0.60	1	1.0	0.6	88.3	0.53	0.73	0.5	1.00	37,20,22,20
44	ok	s=6,m=11	0.11	0.73	0.60	1	1.0	0.6	88.3	0.53	0.72	0.5	1.00	36,21,21,21
45	ok	s=6,m=11	0.07	0.37	0.25	1	1.0	0.6	88.3	0.53	0.37	0.5	1.00	32,35,34,32
46	ok	s=6,m=11	0.08	0.44	0.31	1	1.0	0.6	88.3	0.53	0.44	0.4	1.00	33,33,32,33
47	ok	s=6,m=11	0.07	0.37	0.34	1	1.0	0.6	88.3	0.53	0.36	0.4	1.00	32,35,32,32
48	ok	s=6,m=11	0.06	0.36		1					0.35	0.5	1.00	35,35,0,32
49	ok	s=6,m=11	0.08	0.43	0.30	1	1.0	0.6	88.3	0.53	0.43	0.4	1.00	33,33,32,33
50	ok	s=6,m=11	0.07	0.36	0.30	1	1.0	0.6	88.3	0.53	0.34	0.4	1.00	32,35,35,32
51	ok	s=6,m=11	0.08	0.44		1					0.44	0.5	1.00	33,38,0,38
52	ok	s=6,m=11	0.08	0.42		1					0.42	0.5	1.00	35,35,0,35

Pilas.	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
							0.53			1.00
	0.12	0.76	0.60	1.02	0.61	88.27		0.75	0.51	

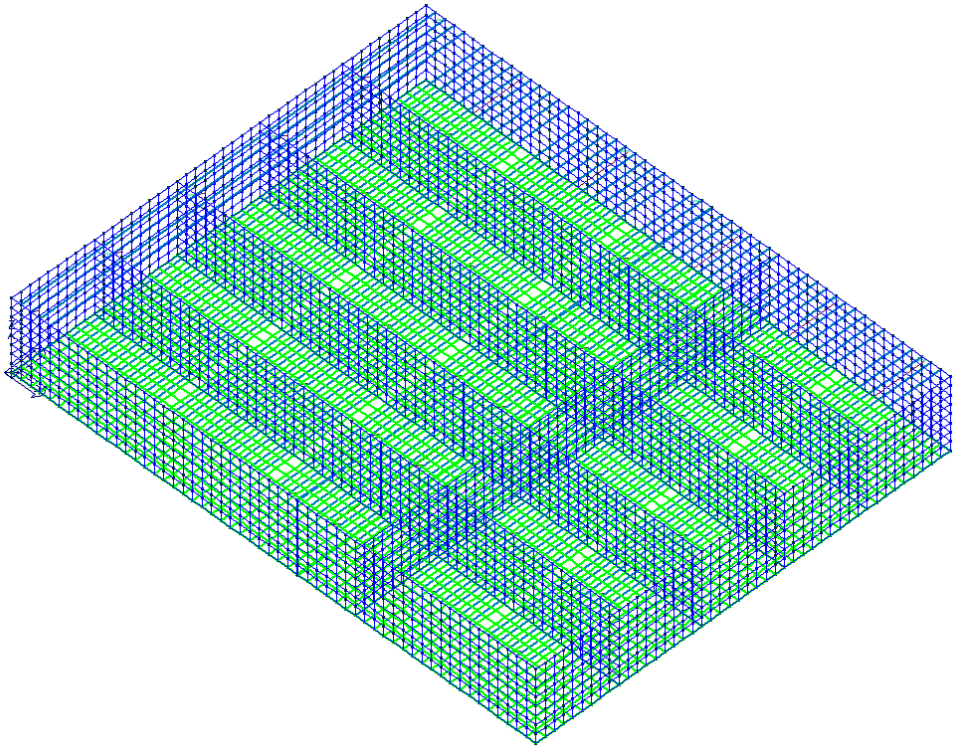
3. VASCHE BIOLOGICO

Vi sono 5 coppie di vasche con dimensioni planimetriche 34,7 m x 8 m la nitrificazione e 18,3 m x 8 m la denitrificazione, aventi platea di fondazione spessa 70 cm, pareti altezza 7,5 m e spesse 70 cm, con copertura in tegoli prefabbricati in C.A.P schematizzata con elementi solaio che applicano i carichi sulla sommità delle pareti.

Per limitare le dimensioni del manufatto, si è inserito un giunto strutturale a circa 30 m nella vasca di nitrificazione, più lunga.

Per tenere conto del collegamento realizzato fra le sommità delle pareti si sono applicati dei tiranti in acciaio al fine di valutare le sollecitazioni in essi agenti.

Di seguito si riportano alcune immagini del modello agli elementi finiti di questa zona.



Si riportano di seguito i tabulati relativi ai dati inseriti, ai principali risultati ottenuti ed alla progettazione degli elementi portanti.

3.1 DESCRIZIONE DELLA MODELLAZIONE

Tipo di analisi strutturale	
Statica lineare	SI
Statica non lineare	NO
Sismica statica lineare	NO
Sismica dinamica lineare	SI

Modellazione della geometria e proprietà meccaniche:	
nodi	6278
elementi D2 (per aste, travi, pilastri…)	250
elementi D3 (per pareti, platee, gusci…)	6150
elementi solaio	35
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	0.00
Xmax =	5510.00
Ymin =	0.00
Ymax =	4350.00
Zmin =	0.00
Zmax =	780.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	NO
Pareti	SI
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	SI
Travi	NO
Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	NO
Solai senza la proprietà piano rigido	SI
Tipo di vincoli:	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI

3.2 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
Poisson	coefficiente di contrazione trasversale
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica

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

1	***cemento armato***		
		Rck	resistenza caratteristica cubica
		Fctm	resistenza media a trazione semplice
2	***acciaio***		
		Ft	tensione di rottura a trazione
		Fy	tensione di snervamento
		Fd	resistenza di calcolo
		Fdt	resistenza di calcolo per spess. t>40 mm
		Sadm	tensione ammissibile
		Sadmt	tensione ammissibile per spess. t>40 mm

TABELLA DATI MATERIALI

Id	Tipo / Note		Young	Poisson	G	Gamma	Alfa
		daN/cm2	daN/cm2		daN/cm2	daN/cm3	
1	Calcestruzzo Classe C25/30		3.145e+05	0.20	1.310e+05	2.50e-03	1.00e-05
	Rck	300.0					
	fctm	25.6					
4	Calcestruzzo Classe C32/40		3.360e+05	0.20	1.400e+05	2.50e-03	1.00e-05
	Rck	400.0					
	fctm	31.0					
54	acciaio rigido senza peso		2.100e+07	0.30	8.077e+06	0.0	1.20e-05
	ft	5100.0					
	fy	3550.0					
	fd	3550.0					
	fdt	3150.0					
	sadm	2400.0					
	sadmt	2100.0					

Il calcestruzzo C25/30 è stato applicato ai pannelli di parete ma non ha influenza sul calcolo in quanto i pannelli applicano solo i carichi ai pilastri.

Il calcestruzzo C32/40 è per gli elementi strutturali gettati in opera.

L'acciaio rigido è stato applicato ai tiranti che simulano il collegamento fra le sommità delle pareti realizzato dal solaio di copertura e trovarne gli sforzi in gioco.

Di seguito si riportano i dati di progettazione degli elementi in calcestruzzo armato.

Pareti c.a.	**1**
Generalità	
Progetto armatura	Singolo elemento
Armatura	
Inclinazione Av [gradi]	90.00
Angolo Av-Ao [gradi]	90.00
Minima tesa	0.15
Massima tesa	4.00
Maglia unica centrale	No
Unico strato verticale	No
Unico strato orizzontale	No
Copriferro [cm]	4.00
Maglia V	
diametro	22
passo	20
diametro aggiuntivi	20
Maglia O	
diametro	16
passo	20
diametro aggiuntivi	12
Stati limite ultimi	
Tensione fy [daN/cm2]	4500.00
Tipo acciaio	tipo C
Coefficiente gamma s	1.30
Coefficiente gamma c	1.50
Fattore di confidenza FC	0.0
Verifiche con N costante	Si
Parete sismica	
Fattore amplificazione taglio V	1.50
Hcrit. par. 7.4.4.5.1 [cm]	0.0
Hcrit. par. 7.4.6.1.4 [cm]	0.0
Usa diagramma di fig. 7.4.2	No
Vincolo lati	nessun lato
Verifica come fascia	No
Diametro di estremità	0
Zona confinata	
Minima tesa	1.00
Massima tesa	4.00
Distanza barre [cm]	2.00
Interferro	2
Armatura inclinata	
Area barre [cm2]	0.0
Angolo orizzontale [gradi]	0.0
Distanza di base [cm]	0.0

Gusci c.a.	**1**
Armatura	
Inclinazione Ax [gradi]	0.0
Angolo Ax-Ay [gradi]	90.00
Minima tesa	0.20
Massima tesa	0.78
Maglia unica centrale	No
Copriferro [cm]	4.00
Maglia x	
diametro	24
passo	20
diametro aggiuntivi	20
Maglia y	
diametro	24
passo	20
diametro aggiuntivi	20
Stati limite ultimi	
Tensione fy [daN/cm2]	4500.00
Tipo acciaio	tipo C
Coefficiente gamma s	1.30
Coefficiente gamma c	1.50
Fattore di confidenza FC	0.0
Verifiche con N costante	Si
Applica SLU da DIN	No

Per limitare la fessurazione nelle pareti e nelle solette si applica all'acciaio d'armatura un $\gamma_s = 1{,}30$ per ridurre la tensione di snervamento da utilizzare nel progetto delle armature ed aumentare conseguentemente l'area di acciaio adottata.

3.3 MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

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

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

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

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

I dati soprariportati 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.

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

TABELLA DATI SEZIONI

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
2	Tirante solaio	7.07	5.96	5.96	7.95	3.98	3.98	2.65	2.65	4.50	4.50

3.4 MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO

LEGENDA TABELLA DATI SOLAI

Il programma utilizza per la modellazione di elementi a tre o più nodi denominati in generale solaio.
Ogni elemento solaio 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, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori).

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

La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

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

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

Elem	numero dell'elemento
Tipo	codice di comportamento ***S*** elemento utilizzato solo per scarico ***C*** elemento utilizzato per scarico e per modellazione piano rigido ***M*** scarico monodirezionale ***B*** scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)

Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
Gk	carico permanente (comprensivo del peso proprio)
Qk	carico variabile
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

TABELLA DATI SOLAI

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/cm2	daN/cm2	daN/cm2							
1	Variab.	5.40e-02		3.00e-02		1.00	1.00	0.90	0.80	0.80	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5930	5857	5861	5934	
2	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5872	5945	5936	5863	
3	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5883	5956	5947	5874	
4	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5958	5885	5887	5960	
5	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5961	5888	5895	5968	
6	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5906	5979	5970	5897	
7	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5981	5908	5913	5986	
8	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6003	5930	5934	6007	
9	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5945	6018	6009	5936	
10	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5956	6029	6020	5947	
11	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6031	5958	5960	6033	
12	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6034	5961	5968	6041	
13	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	5979	6052	6043	5970	
14	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6054	5981	5986	6059	
15	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6076	6003	6007	6080	
16	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6018	6091	6082	6009	
17	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6029	6102	6093	6020	
18	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6104	6031	6033	6106	
19	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6107	6034	6041	6114	
20	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6052	6125	6116	6043	
21	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6127	6054	6059	6132	
22	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6149	6076	6080	6153	
23	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6091	6164	6155	6082	
24	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6102	6175	6166	6093	
25	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6177	6104	6106	6179	
26	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6180	6107	6114	6187	
27	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6125	6198	6189	6116	
28	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6200	6127	6132	6205	
29	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6222	6149	6153	6226	
30	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6164	6237	6228	6155	
31	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6175	6248	6239	6166	
32	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6250	6177	6179	6252	
33	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6253	6180	6187	6260	
34	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6198	6271	6262	6189	
35	SM	1	m=1	1.0	90.0	5.40e-02		3.00e-02	6273	6200	6205	6278	

I carichi applicati alla copertura sono:

- Peso proprio: 540 daN/m^2
- Variabile (comprensivo di neve): 300 daN/m^2

3.5 MODELLAZIONE DELLE AZIONI

LEGENDA TABELLA DATI AZIONI

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

1	**carico concentrato nodale** 6 dati (forza Fx, Fy, Fz, momento Mx, My, Mz)
2	**spostamento nodale impresso** 6 dati (spostamento Tx,Ty,Tz, rotazione Rx,Ry,Rz)
3	**carico distribuito globale su elemento tipo trave** 7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico) 7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	**carico distribuito locale su elemento tipo trave** 7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico) 7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	**carico concentrato globale su elemento tipo trave** 7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	**carico concentrato locale su elemento tipo trave** 7 dati (F1, F2, F3, M1, M2, M3, ascissa di carico)
7	**variazione termica applicata ad elemento tipo trave** 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	**carico di pressione uniforme su elemento tipo piastra** 1 dato (pressione)
9	**carico di pressione variabile su elemento tipo piastra** 4 dati (pressione, quota, pressione, quota)
10	**variazione termica applicata ad elemento tipo piastra** 2 dati (variazioni termiche: media e differenza nello spessore)
11	**carico variabile generale su elementi tipo trave e piastra** 1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	**gruppo di carichi con impronta su piastra** 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell' impronta, interasse tra i carichi

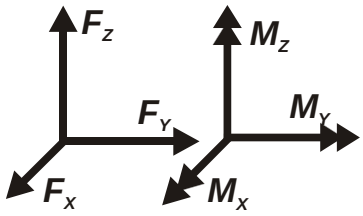
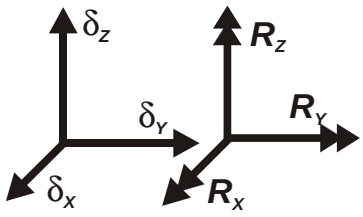
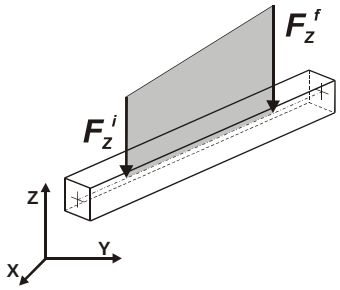
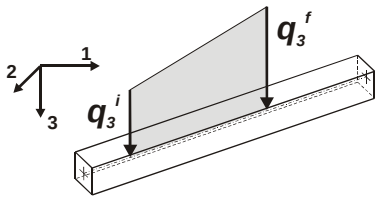
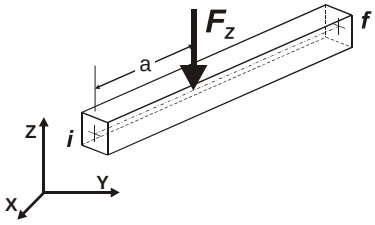
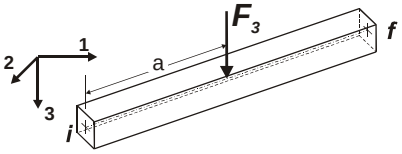
 Carico concentrato nodale	 Spostamento impresso
 Carico distribuito globale	 Carico distribuito locale
 Carico concentrato globale	 Carico concentrato locale

TABELLA DATI AZIONI

Tipo	carico variabile generale

Id	Tipo	ascissa	valore	ascissa	valore
		cm	daN/cm2	cm	daN/cm2
1	Acqua fondo				
	X - X Qz Pres. L2=0.0	-1000.00	-0.70	7000.00	-0.70
2	Pressione +x				
	Z - Z Qx Pres. L2=0.0	0.0	0.70	700.00	0.0
3	Pressione -x				
	Z - Z Qx Pres. L2=0.0	0.0	-0.70	700.00	0.0
4	Pressione +y				
	Z - Z Qy Pres. L2=0.0	0.0	0.70	700.00	0.0
5	Pressione -y				
	Z - Z Qy Pres. L2=0.0	0.0	-0.70	700.00	0.0
6	Sisma H2O +x				
	Z - Z Qx Pres. L2=0.0	0.0	0.47	700.00	0.05
7	Sisma H2O -x				
	Z - Z Qx Pres. L2=0.0	0.0	-0.47	700.00	-0.05
8	Sisma H2O +y				
	Z - Z Qy Pres. L2=0.0	0.0	0.47	700.00	0.05
9	Sisma H2O -y				
	Z - Z Qy Pres. L2=0.0	0.0	-0.47	700.00	-0.05

I carichi applicati sono descritti nella relazione generale sulle strutture.

3.6 SCHEMATIZZAZIONE DEI CASI DI CARICO

LEGENDA TABELLA CASI DI CARICO

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

Sono previsti i seguenti 11 tipi di casi di carico:

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

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

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

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

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

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

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

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

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

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

TABELLA CASI DI CARICO

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Qsk	CDC=Qsk (variabile solai 1)	
4	Qsk	CDC=Qsk (variabile solai 2)	
5	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=Qsk (variabile solai 1)
			partecipazione:1.00 per 4 CDC=Qsk (variabile solai 2)
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
7	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
13	Gk	CDC=G1k (permanente acqua 1)	D3 :da 1 a 36 Azione : Acqua fondo
			D3 :da 56 a 91 Azione : Acqua fondo
			D3 :da 111 a 146 Azione : Acqua fondo
			D3 :da 166 a 201 Azione : Acqua fondo
			D3 :da 221 a 256 Azione : Acqua fondo
			D3 :da 276 a 311 Azione : Acqua fondo
			D3 :da 331 a 366 Azione : Acqua fondo
			D3 :da 386 a 421 Azione : Acqua fondo
			D3 :da 441 a 476 Azione : Acqua fondo
			D3 :da 991 a 1026 Azione : Acqua fondo
			D3 :da 1046 a 1081 Azione : Acqua fondo
			D3 :da 1101 a 1136 Azione : Acqua fondo
			D3 :da 1156 a 1191 Azione : Acqua fondo
			D3 :da 1211 a 1246 Azione : Acqua fondo
			D3 :da 1266 a 1301 Azione : Acqua fondo
			D3 :da 1321 a 1356 Azione : Acqua fondo
			D3 :da 1376 a 1411 Azione : Acqua fondo
			D3 :da 1431 a 1466 Azione : Acqua fondo
			D3 :da 1981 a 2016 Azione : Acqua fondo
			D3 :da 2036 a 2071 Azione : Acqua fondo
			D3 :da 2091 a 2126 Azione : Acqua fondo
			D3 :da 2146 a 2181 Azione : Acqua fondo
			D3 :da 2201 a 2236 Azione : Acqua fondo
			D3 :da 2256 a 2291 Azione : Acqua fondo
			D3 :da 2311 a 2346 Azione : Acqua fondo
			D3 :da 2366 a 2401 Azione : Acqua fondo
			D3 :da 2421 a 2456 Azione : Acqua fondo
			D3 :da 2476 a 2511 Azione : Pressione -y
			D3 : 2531 Azione : Pressione -x
			D3 : 2532 Azione : Pressione +x
			D3 : 2534 Azione : Pressione -x
			D3 : 2535 Azione : Pressione +x
			D3 : 2537 Azione : Pressione -x
			D3 : 2538 Azione : Pressione +x
			D3 : 2540 Azione : Pressione -x
			D3 : 2541 Azione : Pressione +x
			D3 : 2543 Azione : Pressione -x
			D3 : 2544 Azione : Pressione +x
			D3 : 2546 Azione : Pressione -x
			D3 : 2547 Azione : Pressione +x
			D3 : 2549 Azione : Pressione -x
			D3 : 2550 Azione : Pressione +x
			…
			D3 :da 6096 a 6131 Azione : Pressione +y
14	Gk	CDC=G1k (permanente acqua 2)	D3 :da 496 a 531 Azione : Acqua fondo
			D3 :da 551 a 586 Azione : Acqua fondo
			D3 :da 606 a 641 Azione : Acqua fondo
			D3 :da 661 a 696 Azione : Acqua fondo
			D3 :da 716 a 751 Azione : Acqua fondo
			D3 :da 771 a 806 Azione : Acqua fondo
			D3 :da 826 a 861 Azione : Acqua fondo
			D3 :da 881 a 916 Azione : Acqua fondo
			D3 :da 936 a 971 Azione : Acqua fondo
			D3 :da 1486 a 1521 Azione : Acqua fondo
			D3 :da 1541 a 1576 Azione : Acqua fondo

CDC	Tipo	Sigla Id	Note
			D3 :da 1596 a 1631 Azione : Acqua fondo
			D3 :da 1651 a 1686 Azione : Acqua fondo
			D3 :da 1706 a 1741 Azione : Acqua fondo
			D3 :da 1761 a 1796 Azione : Acqua fondo
			D3 :da 1816 a 1851 Azione : Acqua fondo
			D3 :da 1871 a 1906 Azione : Acqua fondo
			D3 :da 1926 a 1961 Azione : Acqua fondo
			D3 :da 2558 a 2593 Azione : Pressione -y
			D3 : 2613 Azione : Pressione -x
			D3 : 2614 Azione : Pressione +x
			D3 : 2616 Azione : Pressione -x
			D3 : 2617 Azione : Pressione +x
			D3 : 2619 Azione : Pressione -x
			D3 : 2620 Azione : Pressione +x
			D3 : 2622 Azione : Pressione -x
			D3 : 2623 Azione : Pressione +x
			D3 : 2625 Azione : Pressione -x
			D3 : 2626 Azione : Pressione +x
			D3 : 2628 Azione : Pressione -x
			D3 : 2629 Azione : Pressione +x
			D3 : 2631 Azione : Pressione -x
			D3 : 2632 Azione : Pressione +x
			D3 : 2634 Azione : Pressione -x
			D3 : 2635 Azione : Pressione +x
			D3 : 2637 Azione : Pressione -x
			D3 : 2638 Azione : Pressione +x
			D3 :da 2640 a 2675 Azione : Pressione +y
			D3 :da 2722 a 2757 Azione : Pressione -y
			D3 : 2777 Azione : Pressione -x
			D3 : 2778 Azione : Pressione +x
			D3 : 2780 Azione : Pressione -x
			D3 : 2781 Azione : Pressione +x
			D3 : 2783 Azione : Pressione -x
			D3 : 2784 Azione : Pressione +x
			D3 : 2786 Azione : Pressione -x
			D3 : 2787 Azione : Pressione +x
			D3 : 2789 Azione : Pressione -x
			D3 : 2790 Azione : Pressione +x
			…
			D3 :da 6023 a 6058 Azione : Pressione +y
15	Gk	CDC=G1k (permanente acqua 3)	D3 :da 37 a 55 Azione : Acqua fondo
			D3 :da 92 a 110 Azione : Acqua fondo
			D3 :da 147 a 165 Azione : Acqua fondo
			D3 :da 202 a 220 Azione : Acqua fondo
			D3 :da 257 a 275 Azione : Acqua fondo
			D3 :da 312 a 330 Azione : Acqua fondo
			D3 :da 367 a 385 Azione : Acqua fondo
			D3 :da 422 a 440 Azione : Acqua fondo
			D3 :da 477 a 495 Azione : Acqua fondo
			D3 :da 1027 a 1045 Azione : Acqua fondo
			D3 :da 1082 a 1100 Azione : Acqua fondo
			D3 :da 1137 a 1155 Azione : Acqua fondo
			D3 :da 1192 a 1210 Azione : Acqua fondo
			D3 :da 1247 a 1265 Azione : Acqua fondo
			D3 :da 1302 a 1320 Azione : Acqua fondo
			D3 :da 1357 a 1375 Azione : Acqua fondo
			D3 :da 1412 a 1430 Azione : Acqua fondo
			D3 :da 1467 a 1485 Azione : Acqua fondo
			D3 :da 2017 a 2035 Azione : Acqua fondo
			D3 :da 2072 a 2090 Azione : Acqua fondo
			D3 :da 2127 a 2145 Azione : Acqua fondo
			D3 :da 2182 a 2200 Azione : Acqua fondo
			D3 :da 2237 a 2255 Azione : Acqua fondo
			D3 :da 2292 a 2310 Azione : Acqua fondo
			D3 :da 2347 a 2365 Azione : Acqua fondo
			D3 :da 2402 a 2420 Azione : Acqua fondo
			D3 :da 2457 a 2475 Azione : Acqua fondo
			D3 :da 2512 a 2530 Azione : Pressione -y
			D3 : 2532 Azione : Pressione -x
			D3 : 2533 Azione : Pressione +x
			D3 : 2535 Azione : Pressione -x
			D3 : 2536 Azione : Pressione +x
			D3 : 2538 Azione : Pressione -x

CDC	Tipo	Sigla Id	Note
			D3 : 2539 Azione : Pressione +x
			D3 : 2541 Azione : Pressione -x
			D3 : 2542 Azione : Pressione +x
			D3 : 2544 Azione : Pressione -x
			D3 : 2545 Azione : Pressione +x
			D3 : 2547 Azione : Pressione -x
			D3 : 2548 Azione : Pressione +x
			D3 : 2550 Azione : Pressione -x
			D3 : 2551 Azione : Pressione +x
			D3 : 2553 Azione : Pressione -x
			D3 : 2554 Azione : Pressione +x
			D3 : 2556 Azione : Pressione -x
			D3 : 2557 Azione : Pressione +x
			D3 :da 2594 a 2612 Azione : Pressione +y
			D3 :da 2676 a 2694 Azione : Pressione -y
			…
			D3 :da 6132 a 6150 Azione : Pressione +y
16	Gk	CDC=G1k (permanente acqua 4)	D3 :da 532 a 550 Azione : Acqua fondo
			D3 :da 587 a 605 Azione : Acqua fondo
			D3 :da 642 a 660 Azione : Acqua fondo
			D3 :da 697 a 715 Azione : Acqua fondo
			D3 :da 752 a 770 Azione : Acqua fondo
			D3 :da 807 a 825 Azione : Acqua fondo
			D3 :da 862 a 880 Azione : Acqua fondo
			D3 :da 917 a 935 Azione : Acqua fondo
			D3 :da 972 a 990 Azione : Acqua fondo
			D3 :da 1522 a 1540 Azione : Acqua fondo
			D3 :da 1577 a 1595 Azione : Acqua fondo
			D3 :da 1632 a 1650 Azione : Acqua fondo
			D3 :da 1687 a 1705 Azione : Acqua fondo
			D3 :da 1742 a 1760 Azione : Acqua fondo
			D3 :da 1797 a 1815 Azione : Acqua fondo
			D3 :da 1852 a 1870 Azione : Acqua fondo
			D3 :da 1907 a 1925 Azione : Acqua fondo
			D3 :da 1962 a 1980 Azione : Acqua fondo
			D3 :da 2594 a 2612 Azione : Pressione -y
			D3 : 2614 Azione : Pressione -x
			D3 : 2615 Azione : Pressione +x
			D3 : 2617 Azione : Pressione -x
			D3 : 2618 Azione : Pressione +x
			D3 : 2620 Azione : Pressione -x
			D3 : 2621 Azione : Pressione +x
			D3 : 2623 Azione : Pressione -x
			D3 : 2624 Azione : Pressione +x
			D3 : 2626 Azione : Pressione -x
			D3 : 2627 Azione : Pressione +x
			D3 : 2629 Azione : Pressione -x
			D3 : 2630 Azione : Pressione +x
			D3 : 2632 Azione : Pressione -x
			D3 : 2633 Azione : Pressione +x
			D3 : 2635 Azione : Pressione -x
			D3 : 2636 Azione : Pressione +x
			D3 : 2638 Azione : Pressione -x
			D3 : 2639 Azione : Pressione +x
			D3 :da 2676 a 2694 Azione : Pressione +y
			D3 :da 2758 a 2776 Azione : Pressione -y
			…
			D3 :da 6059 a 6077 Azione : Pressione +y
17	Etk	CDC=Etk (inc. sp. liquido) SLV dir + alfa=0.0	D3 : 2532 Azione : Sisma H2O +x
			D3 : 2533 Azione : Sisma H2O +x
			D3 : 2535 Azione : Sisma H2O +x
			D3 : 2536 Azione : Sisma H2O +x
			D3 : 2538 Azione : Sisma H2O +x
			D3 : 2539 Azione : Sisma H2O +x
			D3 : 2541 Azione : Sisma H2O +x
			D3 : 2542 Azione : Sisma H2O +x
			D3 : 2544 Azione : Sisma H2O +x
			D3 : 2545 Azione : Sisma H2O +x
			D3 : 2547 Azione : Sisma H2O +x
			D3 : 2548 Azione : Sisma H2O +x
			D3 : 2550 Azione : Sisma H2O +x
			D3 : 2551 Azione : Sisma H2O +x
			D3 : 2553 Azione : Sisma H2O +x

CDC	Tipo	Sigla Id	Note
			D3 : 2554 Azione : Sisma H2O +x
			D3 : 2556 Azione : Sisma H2O +x
			D3 : 2557 Azione : Sisma H2O +x
			D3 : 2614 Azione : Sisma H2O +x
			D3 : 2615 Azione : Sisma H2O +x
			D3 : 2617 Azione : Sisma H2O +x
			D3 : 2618 Azione : Sisma H2O +x
			D3 : 2620 Azione : Sisma H2O +x
			D3 : 2621 Azione : Sisma H2O +x
			D3 : 2623 Azione : Sisma H2O +x
			D3 : 2624 Azione : Sisma H2O +x
			D3 : 2626 Azione : Sisma H2O +x
			D3 : 2627 Azione : Sisma H2O +x
			D3 : 2629 Azione : Sisma H2O +x
			D3 : 2630 Azione : Sisma H2O +x
			D3 : 2632 Azione : Sisma H2O +x
			D3 : 2633 Azione : Sisma H2O +x
			D3 : 2635 Azione : Sisma H2O +x
			D3 : 2636 Azione : Sisma H2O +x
			D3 : 2638 Azione : Sisma H2O +x
			D3 : 2639 Azione : Sisma H2O +x
			D3 : 2696 Azione : Sisma H2O +x
			D3 : 2697 Azione : Sisma H2O +x
			D3 : 2699 Azione : Sisma H2O +x
			D3 : 2700 Azione : Sisma H2O +x
			D3 : 2702 Azione : Sisma H2O +x
			D3 : 2703 Azione : Sisma H2O +x
			D3 : 2705 Azione : Sisma H2O +x
			…
			D3 : 6095 Azione : Sisma H2O +x
18	Etk	CDC=Etk (inc. sp. liquido) SLV dir - alfa=0.0	D3 : 2531 Azione : Sisma H2O -x
			D3 : 2532 Azione : Sisma H2O -x
			D3 : 2534 Azione : Sisma H2O -x
			D3 : 2535 Azione : Sisma H2O -x
			D3 : 2537 Azione : Sisma H2O -x
			D3 : 2538 Azione : Sisma H2O -x
			D3 : 2540 Azione : Sisma H2O -x
			D3 : 2541 Azione : Sisma H2O -x
			D3 : 2543 Azione : Sisma H2O -x
			D3 : 2544 Azione : Sisma H2O -x
			D3 : 2546 Azione : Sisma H2O -x
			D3 : 2547 Azione : Sisma H2O -x
			D3 : 2549 Azione : Sisma H2O -x
			D3 : 2550 Azione : Sisma H2O -x
			D3 : 2552 Azione : Sisma H2O -x
			D3 : 2553 Azione : Sisma H2O -x
			D3 : 2555 Azione : Sisma H2O -x
			D3 : 2556 Azione : Sisma H2O -x
			D3 : 2613 Azione : Sisma H2O -x
			D3 : 2614 Azione : Sisma H2O -x
			D3 : 2616 Azione : Sisma H2O -x
			D3 : 2617 Azione : Sisma H2O -x
			D3 : 2619 Azione : Sisma H2O -x
			D3 : 2620 Azione : Sisma H2O -x
			D3 : 2622 Azione : Sisma H2O -x
			D3 : 2623 Azione : Sisma H2O -x
			D3 : 2625 Azione : Sisma H2O -x
			D3 : 2626 Azione : Sisma H2O -x
			D3 : 2628 Azione : Sisma H2O -x
			…
			D3 : 6094 Azione : Sisma H2O -x
19	Etk	CDC=Etk (inc. sp. liquido) SLV dir + alfa=90.00	D3 :da 2558 a 2593 Azione : Sisma H2O +y
			D3 :da 2594 a 2612 Azione : Sisma H2O +y
			D3 :da 2640 a 2675 Azione : Sisma H2O +y
			D3 :da 2676 a 2694 Azione : Sisma H2O +y
			D3 :da 2722 a 2757 Azione : Sisma H2O +y
			D3 :da 2758 a 2776 Azione : Sisma H2O +y
			D3 :da 2804 a 2839 Azione : Sisma H2O +y
			D3 :da 2840 a 2858 Azione : Sisma H2O +y
			D3 :da 2886 a 2921 Azione : Sisma H2O +y
			D3 :da 2922 a 2940 Azione : Sisma H2O +y
			D3 :da 3023 a 3058 Azione : Sisma H2O +y
			D3 :da 3059 a 3077 Azione : Sisma H2O +y

CDC	Tipo	Sigla Id	Note
			D3 :da 3105 a 3140 Azione : Sisma H2O +y
			D3 :da 3141 a 3159 Azione : Sisma H2O +y
			D3 :da 3187 a 3222 Azione : Sisma H2O +y
			D3 :da 3223 a 3241 Azione : Sisma H2O +y
			D3 :da 3269 a 3304 Azione : Sisma H2O +y
			D3 :da 3305 a 3323 Azione : Sisma H2O +y
			D3 :da 3351 a 3386 Azione : Sisma H2O +y
			D3 :da 3387 a 3405 Azione : Sisma H2O +y
			D3 :da 3488 a 3523 Azione : Sisma H2O +y
			D3 :da 3524 a 3542 Azione : Sisma H2O +y
			D3 :da 3570 a 3605 Azione : Sisma H2O +y
			D3 :da 3606 a 3624 Azione : Sisma H2O +y
			D3 :da 3652 a 3687 Azione : Sisma H2O +y
			D3 :da 3688 a 3706 Azione : Sisma H2O +y
			D3 :da 3734 a 3769 Azione : Sisma H2O +y
			D3 :da 3770 a 3788 Azione : Sisma H2O +y
			D3 :da 3816 a 3851 Azione : Sisma H2O +y
			D3 :da 3852 a 3870 Azione : Sisma H2O +y
			D3 :da 3953 a 3988 Azione : Sisma H2O +y
			D3 :da 3989 a 4007 Azione : Sisma H2O +y
			D3 :da 4035 a 4070 Azione : Sisma H2O +y
			D3 :da 4071 a 4089 Azione : Sisma H2O +y
			D3 :da 4117 a 4152 Azione : Sisma H2O +y
			D3 :da 4153 a 4171 Azione : Sisma H2O +y
			D3 :da 4199 a 4234 Azione : Sisma H2O +y
			D3 :da 4235 a 4253 Azione : Sisma H2O +y
			D3 :da 4281 a 4316 Azione : Sisma H2O +y
			D3 :da 4317 a 4335 Azione : Sisma H2O +y
			D3 :da 4418 a 4453 Azione : Sisma H2O +y
			D3 :da 4454 a 4472 Azione : Sisma H2O +y
			…
			D3 :da 6132 a 6150 Azione : Sisma H2O +y
20	Etk	CDC=Etk (inc. sp. liquido) SLV dir - alfa=90.00	D3 :da 2476 a 2511 Azione : Sisma H2O -y
			D3 :da 2512 a 2530 Azione : Sisma H2O -y
			D3 :da 2558 a 2593 Azione : Sisma H2O -y
			D3 :da 2594 a 2612 Azione : Sisma H2O -y
			D3 :da 2640 a 2675 Azione : Sisma H2O -y
			D3 :da 2676 a 2694 Azione : Sisma H2O -y
			D3 :da 2722 a 2757 Azione : Sisma H2O -y
			D3 :da 2758 a 2776 Azione : Sisma H2O -y
			D3 :da 2804 a 2839 Azione : Sisma H2O -y
			D3 :da 2840 a 2858 Azione : Sisma H2O -y
			D3 :da 2941 a 2976 Azione : Sisma H2O -y
			D3 :da 2977 a 2995 Azione : Sisma H2O -y
			D3 :da 3023 a 3058 Azione : Sisma H2O -y
			D3 :da 3059 a 3077 Azione : Sisma H2O -y
			D3 :da 3105 a 3140 Azione : Sisma H2O -y
			D3 :da 3141 a 3159 Azione : Sisma H2O -y
			D3 :da 3187 a 3222 Azione : Sisma H2O -y
			D3 :da 3223 a 3241 Azione : Sisma H2O -y
			D3 :da 3269 a 3304 Azione : Sisma H2O -y
			D3 :da 3305 a 3323 Azione : Sisma H2O -y
			D3 :da 3406 a 3441 Azione : Sisma H2O -y
			D3 :da 3442 a 3460 Azione : Sisma H2O -y
			D3 :da 3488 a 3523 Azione : Sisma H2O -y
			D3 :da 3524 a 3542 Azione : Sisma H2O -y
			D3 :da 3570 a 3605 Azione : Sisma H2O -y
			D3 :da 3606 a 3624 Azione : Sisma H2O -y
			D3 :da 3652 a 3687 Azione : Sisma H2O -y
			D3 :da 3688 a 3706 Azione : Sisma H2O -y
			D3 :da 3734 a 3769 Azione : Sisma H2O -y
			D3 :da 3770 a 3788 Azione : Sisma H2O -y
			D3 :da 3871 a 3906 Azione : Sisma H2O -y
			D3 :da 3907 a 3925 Azione : Sisma H2O -y
			D3 :da 3953 a 3988 Azione : Sisma H2O -y
			D3 :da 3989 a 4007 Azione : Sisma H2O -y
			D3 :da 4035 a 4070 Azione : Sisma H2O -y
			D3 :da 4071 a 4089 Azione : Sisma H2O -y
			D3 :da 4117 a 4152 Azione : Sisma H2O -y
			…
			D3 :da 6059 a 6077 Azione : Sisma H2O -y

3.7 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 tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: *Numero*, *Tipo*, *Sigla identificativa* e il *peso nella combinazione*, assunto per ogni caso di carico.

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

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

Combinazione caratteristica (rara) SLE

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

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

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

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

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

Dove:

NTC 2008 Tabella 2.5.I

Destinazione d'uso/azione	**ψ0**	**ψ1**	**ψ2**
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 <= 30kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota <= 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche si adotta l'approccio 2 dove si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2008 Tabella 2.6.I

		Coefficiente γf	**EQU**	**A1**	**A2**
Carichi permanenti	Favorevoli	γG1	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali	Favorevoli	γG2	0,0	0,0	0,0
(Non compiutamente definiti)	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γQi	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

TABELLA COMBINAZIONI DI CARICO

Cmb	Tipo	Sigla Id
1	SLU	Comb. SLU A1 1
2	SLU	Comb. SLU A1 2
3	SLU	Comb. SLU A1 3
4	SLU	Comb. SLU A1 4
5	SLU	Comb. SLU A1 5
6	SLU	Comb. SLU A1 6
7	SLU	Comb. SLU A1 7
8	SLU	Comb. SLU A1 8
9	SLU	Comb. SLU A1 9 vasche 1 + 3
10	SLU	Comb. SLU A1 10 vasche 2 + 4
11	SLU	Comb. SLU A1 11 vasche 1 + 2
12	SLU	Comb. SLU A1 12 vasche 3 + 4
13	SLU	Comb. SLU A1 13 vasche 1 + 2 + 3 + 4
14	SLU	Comb. SLU A1 (SLV sism.) 14
15	SLU	Comb. SLU A1 (SLV sism.) 15
16	SLU	Comb. SLU A1 (SLV sism.) 16
17	SLU	Comb. SLU A1 (SLV sism.) 17
18	SLU	Comb. SLU A1 (SLV sism.) 18
19	SLU	Comb. SLU A1 (SLV sism.) 19
20	SLU	Comb. SLU A1 (SLV sism.) 20
21	SLU	Comb. SLU A1 (SLV sism.) 21
22	SLU	Comb. SLU A1 (SLV sism.) 22
23	SLU	Comb. SLU A1 (SLV sism.) 23
24	SLU	Comb. SLU A1 (SLV sism.) 24
25	SLU	Comb. SLU A1 (SLV sism.) 25
26	SLU	Comb. SLU A1 (SLV sism.) 26
27	SLU	Comb. SLU A1 (SLV sism.) 27
28	SLU	Comb. SLU A1 (SLV sism.) 28
29	SLU	Comb. SLU A1 (SLV sism.) 29
30	SLU	Comb. SLU A1 (SLV sism.) 30
31	SLU	Comb. SLU A1 (SLV sism.) 31
32	SLU	Comb. SLU A1 (SLV sism.) 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	SLD(sis)	Comb. SLE (SLD Danno sism.) 46
47	SLD(sis)	Comb. SLE (SLD Danno sism.) 47
48	SLD(sis)	Comb. SLE (SLD Danno sism.) 48
49	SLD(sis)	Comb. SLE (SLD Danno sism.) 49
50	SLD(sis)	Comb. SLE (SLD Danno sism.) 50
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 51
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 52
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 53
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 54
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 55
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68

Cmb	Tipo	Sigla Id
69	SLD(sis)	Comb. SLE (SLD Danno sism.) 69
70	SLD(sis)	Comb. SLE (SLD Danno sism.) 70
71	SLD(sis)	Comb. SLE (SLD Danno sism.) 71
72	SLD(sis)	Comb. SLE (SLD Danno sism.) 72
73	SLD(sis)	Comb. SLE (SLD Danno sism.) 73
74	SLD(sis)	Comb. SLE (SLD Danno sism.) 74
75	SLD(sis)	Comb. SLE (SLD Danno sism.) 75
76	SLD(sis)	Comb. SLE (SLD Danno sism.) 76
77	SLD(sis)	Comb. SLE (SLD Danno sism.) 77
78	SLE(r)	Comb. SLE(rara) 78
79	SLE(r)	Comb. SLE(rara) 79
80	SLE(r)	Comb. SLE(rara) 80
81	SLE(r)	Comb. SLE(rara) 81
82	SLE(r)	Comb. SLE(rara) 82 vasche 1 + 2 + 3 + 4
83	SLE(f)	Comb. SLE(freq.) 83
84	SLE(f)	Comb. SLE(freq.) 84
85	SLE(f)	Comb. SLE(freq.) 85
86	SLE(f)	Comb. SLE(freq.) 86
87	SLE(f)	Comb. SLE(freq.) 87
88	SLE(f)	Comb. SLE(freq.) 88
89	SLE(f)	Comb. SLE(freq.) 89
90	SLE(p)	Comb. SLE(perm.) 90
91	SLE(p)	Comb. SLE(perm.) 91
92	SLE(p)	Comb. SLE(perm.) 92
93	SLE(p)	Comb. SLE(perm.) 93
94	SLE(p)	Comb. SLE(perm.) 94 vasche 1 + 3
95	SLE(p)	Comb. SLE(perm.) 95 vasche 2 + 4
96	SLE(p)	Comb. SLE(perm.) 96 vasche 1 + 2
97	SLE(p)	Comb. SLE(perm.) 97 vasche 3 + 4
98	SLE(p)	Comb. SLE(perm.) 98 vasche 1 + 2 + 3 + 4

Cmb	CDC 1/15	CDC 2/16	CDC 3/17	CDC 4/18	CDC 5/19	CDC 6/20	CDC 7	CDC 8	CDC 9	CDC 10	CDC 11	CDC 12	CDC 13	CDC 14
1	1.30	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
2	1.30	1.30	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
3	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
4	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
5	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
6	1.00	1.00	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
7	1.00	1.00	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
8	1.00	1.00	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
9	1.30	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0
	1.30	0.0	0.0	0.0	0.0	0.0								
10	1.30	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30
	0.0	1.30	0.0	0.0	0.0	0.0								
11	1.30	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.30
	0.0	0.0	0.0	0.0	0.0	0.0								
12	1.30	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.30	1.30	0.0	0.0	0.0	0.0								
13	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.30
	1.30	1.30	0.0	0.0	0.0	0.0								
14	1.00	1.00	0.80	0.80	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	1.00	0.0	0.30	0.0								
15	1.00	1.00	0.80	0.80	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	1.00	0.0	0.0	0.30								
16	1.00	1.00	0.80	0.80	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	1.00	0.30	0.0								
17	1.00	1.00	0.80	0.80	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	1.00	0.0	0.30								
18	1.00	1.00	0.80	0.80	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	1.00	0.0	0.30	0.0								
19	1.00	1.00	0.80	0.80	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	1.00	0.0	0.0	0.30								
20	1.00	1.00	0.80	0.80	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	1.00

Cmb	CDC 1/15	CDC 2/16	CDC 3/17	CDC 4/18	CDC 5/19	CDC 6/20	CDC 7	CDC 8	CDC 9	CDC 10	CDC 11	CDC 12	CDC 13	CDC 14
	1.00	1.00	0.0	1.00	0.30	0.0								
21	1.00	1.00	0.80	0.80	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	1.00	0.0	0.30								
22	1.00	1.00	0.80	0.80	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	1.00	0.0	0.30	0.0								
23	1.00	1.00	0.80	0.80	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	1.00	0.0	0.0	0.30								
24	1.00	1.00	0.80	0.80	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	1.00	0.30	0.0								
25	1.00	1.00	0.80	0.80	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	1.00	0.0	0.30								
26	1.00	1.00	0.80	0.80	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	1.00	0.0	0.30	0.0								
27	1.00	1.00	0.80	0.80	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	1.00	0.0	0.0	0.30								
28	1.00	1.00	0.80	0.80	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	1.00	0.30	0.0								
29	1.00	1.00	0.80	0.80	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	1.00	0.0	0.30								
30	1.00	1.00	0.80	0.80	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.30	0.0	1.00	0.0								
31	1.00	1.00	0.80	0.80	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.30	0.0	0.0	1.00								
32	1.00	1.00	0.80	0.80	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.30	1.00	0.0								
33	1.00	1.00	0.80	0.80	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.30	0.0	1.00								
34	1.00	1.00	0.80	0.80	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.30	0.0	1.00	0.0								
35	1.00	1.00	0.80	0.80	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.30	0.0	0.0	1.00								
36	1.00	1.00	0.80	0.80	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.30	1.00	0.0								
37	1.00	1.00	0.80	0.80	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.30	0.0	1.00								
38	1.00	1.00	0.80	0.80	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.30	0.0	1.00	0.0								
39	1.00	1.00	0.80	0.80	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.30	0.0	0.0	1.00								
40	1.00	1.00	0.80	0.80	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.30	1.00	0.0								
41	1.00	1.00	0.80	0.80	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.30	0.0	1.00								
42	1.00	1.00	0.80	0.80	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.30	0.0	1.00	0.0								
43	1.00	1.00	0.80	0.80	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.30	0.0	0.0	1.00								
44	1.00	1.00	0.80	0.80	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.30	1.00	0.0								
45	1.00	1.00	0.80	0.80	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.30	0.0	1.00								
46	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	1.00	1.00
	1.00	1.00	0.50	0.0	0.15	0.0								
47	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	1.00	1.00
	1.00	1.00	0.50	0.0	0.0	0.15								
48	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	1.00	1.00
	1.00	1.00	0.0	0.50	0.15	0.0								
49	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	1.00	1.00
	1.00	1.00	0.0	0.50	0.0	0.15								
50	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	1.00	1.00
	1.00	1.00	0.50	0.0	0.15	0.0								
51	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	1.00	1.00
	1.00	1.00	0.50	0.0	0.0	0.15								
52	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	1.00	1.00
	1.00	1.00	0.0	0.50	0.15	0.0								
53	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	1.00	1.00
	1.00	1.00	0.0	0.50	0.0	0.15								
54	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	1.00	1.00
	1.00	1.00	0.50	0.0	0.15	0.0								
55	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	1.00	1.00
	1.00	1.00	0.50	0.0	0.0	0.15								
56	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	1.00	1.00

Cmb	CDC 1/15	CDC 2/16	CDC 3/17	CDC 4/18	CDC 5/19	CDC 6/20	CDC 7	CDC 8	CDC 9	CDC 10	CDC 11	CDC 12	CDC 13	CDC 14
	1.00	1.00	0.0	0.50	0.15	0.0								
57	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	1.00	1.00
	1.00	1.00	0.0	0.50	0.0	0.15								
58	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	1.00	1.00
	1.00	1.00	0.50	0.0	0.15	0.0								
59	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	1.00	1.00
	1.00	1.00	0.50	0.0	0.0	0.15								
60	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	1.00	1.00
	1.00	1.00	0.0	0.50	0.15	0.0								
61	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	1.00	1.00
	1.00	1.00	0.0	0.50	0.0	0.15								
62	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	1.00	1.00
	1.00	1.00	0.15	0.0	0.50	0.0								
63	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	1.00	1.00
	1.00	1.00	0.15	0.0	0.0	0.50								
64	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	1.00	1.00
	1.00	1.00	0.0	0.15	0.50	0.0								
65	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	1.00	1.00
	1.00	1.00	0.0	0.15	0.0	0.50								
66	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	1.00	1.00
	1.00	1.00	0.15	0.0	0.50	0.0								
67	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	1.00	1.00
	1.00	1.00	0.15	0.0	0.0	0.50								
68	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	1.00	1.00
	1.00	1.00	0.0	0.15	0.50	0.0								
69	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	1.00	1.00
	1.00	1.00	0.0	0.15	0.0	0.50								
70	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	1.00	1.00
	1.00	1.00	0.15	0.0	0.50	0.0								
71	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	1.00	1.00
	1.00	1.00	0.15	0.0	0.0	0.50								
72	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	1.00	1.00
	1.00	1.00	0.0	0.15	0.50	0.0								
73	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	1.00	1.00
	1.00	1.00	0.0	0.15	0.0	0.50								
74	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	1.00	1.00
	1.00	1.00	0.15	0.0	0.50	0.0								
75	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	1.00	1.00
	1.00	1.00	0.15	0.0	0.0	0.50								
76	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	1.00	1.00
	1.00	1.00	0.0	0.15	0.50	0.0								
77	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	1.00	1.00
	1.00	1.00	0.0	0.15	0.0	0.50								
78	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
79	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
80	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
81	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
82	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.0	0.0	0.0								
83	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
84	1.00	1.00	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
85	1.00	1.00	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
86	1.00	1.00	0.90	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
87	1.00	1.00	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
88	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
89	1.00	1.00	0.80	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
90	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
91	1.00	1.00	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
92	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cmb	CDC 1/15	CDC 2/16	CDC 3/17	CDC 4/18	CDC 5/19	CDC 6/20	CDC 7	CDC 8	CDC 9	CDC 10	CDC 11	CDC 12	CDC 13	CDC 14
	0.0	0.0	0.0	0.0	0.0	0.0								
93	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0								
94	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
	1.00	0.0	0.0	0.0	0.0	0.0								
95	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	1.00	0.0	0.0	0.0	0.0								
96	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	0.0	0.0	0.0	0.0	0.0	0.0								
97	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	1.00	0.0	0.0	0.0	0.0								
98	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00
	1.00	1.00	0.0	0.0	0.0	0.0								

3.8 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 Vr 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 Vr e la probabilità di superamento Pver associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno Tr e i relativi parametri di pericolosità sismica (vedi tabella successiva):

ag: accelerazione orizzontale massima del terreno;

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

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

Parametri della struttura					
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]	Tipo di suolo	Categoria topografica
IV	100.0	2.0	200.0	C	T1

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

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche

mediante la relazione seguente S = Ss*St (3.2.5)

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

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

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

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

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

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	8.872	44.410	
16917	8.872	44.395	1.662
16918	8.942	44.398	5.700
16696	8.938	44.448	6.710
16695	8.868	44.445	3.892

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	120.0	0.040	2.540	0.250
SLD	63.0	201.0	0.049	2.530	0.270
SLV	10.0	1898.0	0.105	2.540	0.310
SLC	5.0	2475.0	0.115	2.540	0.310

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.040	1.500	2.540	0.689	0.138	0.415	1.762
SLD	0.049	1.500	2.530	0.758	0.146	0.437	1.797
SLV	0.105	1.500	2.540	1.111	0.160	0.479	2.020
SLC	0.115	1.500	2.540	1.161	0.160	0.479	2.059

3.9 RISULTATI ANALISI SISMICHE

LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:
9. Esk caso di carico sismico con analisi statica equivalente
10. Edk caso di carico sismico con analisi dinamica

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

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

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

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

c) **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

d) **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.

TABELLA ANALISI SISMICHE

CDC	Tipo	Sigla Id	Note
5	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.400 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.091 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
780.00	1.883e+06	2763.67	2175.00	0.0	-217.50	2755.00	2175.00	1.314	0.003	0.0
682.50	7.486e+05	2797.04	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.089	0.0
585.00	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
487.50	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
390.00	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
292.50	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
195.00	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
97.50	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
Risulta	7.346e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	3.589	0.279	0.400	4.30	5.85e-05	2.035e+06	27.7	0.03	0.0	0.0	0.0
2	5.187	0.193	0.400	5.831e+05	7.9	4.614e+05	6.3	1.142e+04	0.2	0.0	0.0
3	5.477	0.183	0.400	6.784e+05	9.2	1.835e+06	25.0	1.565e+04	0.2	0.0	0.0
4	5.839	0.171	0.400	7.298e+05	9.9	2.399e+05	3.3	1.014e+05	1.4	0.0	0.0
5	6.104	0.164	0.400	1.363e+06	18.5	4.939e+04	0.7	1.695e+05	2.3	0.0	0.0
6	7.625	0.131	0.356	1.536e+05	2.1	3759.47	5.12e-02	3.758e+06	51.2	0.0	0.0
7	9.608	0.104	0.315	8.116e+05	11.0	1.964e+04	0.3	3.052e+06	41.5	0.0	0.0
8	10.501	0.095	0.302	4.541e+04	0.6	2.357e+06	32.1	3421.80	4.66e-02	0.0	0.0
9	10.980	0.091	0.296	2.955e+06	40.2	2.449e+04	0.3	2.150e+05	2.9	0.0	0.0
Risulta				7.320e+06		7.026e+06		7.326e+06			
In percentuale				99.65		95.65		99.73			

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.400 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.091 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
780.00	1.883e+06	2763.67	2175.00	0.0	217.50	2755.00	2175.00	1.314	0.003	0.0
682.50	7.486e+05	2797.04	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.089	0.0
585.00	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
487.50	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
390.00	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
292.50	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
195.00	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
97.50	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
Risulta	7.346e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	3.589	0.279	0.400	4.30	5.85e-05	2.035e+06	27.7	0.03	0.0	0.0	0.0
2	5.187	0.193	0.400	5.831e+05	7.9	4.614e+05	6.3	1.142e+04	0.2	0.0	0.0
3	5.477	0.183	0.400	6.784e+05	9.2	1.835e+06	25.0	1.565e+04	0.2	0.0	0.0
4	5.839	0.171	0.400	7.298e+05	9.9	2.399e+05	3.3	1.014e+05	1.4	0.0	0.0
5	6.104	0.164	0.400	1.363e+06	18.5	4.939e+04	0.7	1.695e+05	2.3	0.0	0.0
6	7.625	0.131	0.356	1.536e+05	2.1	3759.46	5.12e-02	3.758e+06	51.2	0.0	0.0
7	9.608	0.104	0.315	8.116e+05	11.0	1.964e+04	0.3	3.052e+06	41.5	0.0	0.0
8	10.501	0.095	0.302	4.541e+04	0.6	2.357e+06	32.1	3421.80	4.66e-02	0.0	0.0
9	10.980	0.091	0.296	2.955e+06	40.2	2.449e+04	0.3	2.150e+05	2.9	0.0	0.0
Risulta				7.320e+06		7.026e+06		7.326e+06			
In percentuale				99.65		95.65		99.73			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.400 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.194 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
780.00	1.883e+06	2763.67	2175.00	275.50	0.0	2755.00	2175.00	1.314	0.003	0.0
682.50	7.486e+05	2797.04	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.089	0.0
585.00	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
487.50	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
390.00	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
292.50	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
195.00	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
97.50	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
Risulta	7.346e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	3.704	0.270	0.400	0.0	0.0	1.761e+06	24.0	0.0	0.0	0.0	0.0
2	5.160	0.194	0.400	0.0	0.0	2.815e+06	38.3	0.0	0.0	0.0	0.0
3	5.568	0.180	0.400	1.910e+06	26.0	0.0	0.0	9.140e+04	1.2	0.0	0.0
4	6.198	0.161	0.400	1.440e+06	19.6	0.0	0.0	2.033e+05	2.8	0.0	0.0
5	7.193	0.139	0.368	6518.40	8.87e-02	0.0	0.0	1.378e+06	18.8	0.0	0.0
6	8.213	0.122	0.342	1.291e+05	1.8	0.0	0.0	3.498e+06	47.6	0.0	0.0
7	9.863	0.101	0.311	1.800e+06	24.5	1.09e-06	0.0	1.771e+06	24.1	0.0	0.0
8	10.100	0.099	0.308	1.49e-06	0.0	2.396e+06	32.6	0.0	0.0	0.0	0.0
9	11.394	0.088	0.291	2.052e+06	27.9	0.0	0.0	3.933e+05	5.4	0.0	0.0
Risulta				7.337e+06		6.972e+06		7.335e+06			
In percentuale				99.89		94.91		99.86			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.400 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.102 sec.
			fattore di struttura q: 1.000
			fattore per spost. mu d: 1.000

CDC	Tipo	Sigla Id	Note
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
780.00	1.883e+06	2763.67	2175.00	-275.50	0.0	2755.00	2175.00	1.314	0.003	0.0
682.50	7.486e+05	2797.04	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.089	0.0
585.00	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
487.50	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
390.00	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
292.50	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
195.00	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
97.50	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
Risulta	7.346e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	3.479	0.287	0.400	0.0	0.0	2.346e+06	31.9	0.0	0.0	0.0	0.0
2	5.568	0.180	0.400	1.914e+06	26.1	1.00e-06	0.0	9.137e+04	1.2	0.0	0.0
3	5.578	0.179	0.400	0.0	0.0	1.978e+06	26.9	0.0	0.0	0.0	0.0
4	6.199	0.161	0.400	1.436e+06	19.5	0.0	0.0	2.045e+05	2.8	0.0	0.0
5	7.176	0.139	0.369	6469.72	8.81e-02	0.0	0.0	1.343e+06	18.3	0.0	0.0
6	8.213	0.122	0.342	1.279e+05	1.7	0.0	0.0	3.535e+06	48.1	0.0	0.0
7	9.825	0.102	0.312	1.60e-06	0.0	2.612e+06	35.6	2.17e-06	0.0	0.0	0.0
8	9.862	0.101	0.311	1.801e+06	24.5	2.74e-06	0.0	1.768e+06	24.1	0.0	0.0
9	11.393	0.088	0.291	2.053e+06	27.9	0.0	0.0	3.924e+05	5.3	0.0	0.0
Risulta				7.337e+06		6.937e+06		7.335e+06			
In percentuale				99.89		94.44		99.86			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.187 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.091 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
780.00	1.883e+06	2763.67	2175.00	0.0	-217.50	2755.00	2175.00	1.314	0.003	0.0
682.50	7.486e+05	2797.04	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.089	0.0
585.00	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
487.50	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
390.00	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
292.50	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
195.00	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
97.50	7.857e+05	2835.44	2175.00	0.0	-217.50	3039.81	2175.00	1.329	0.075	0.0
Risulta	7.346e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	3.589	0.279	0.187	4.30	5.85e-05	2.035e+06	27.7	0.03	0.0	0.0	0.0
2	5.187	0.193	0.187	5.831e+05	7.9	4.614e+05	6.3	1.142e+04	0.2	0.0	0.0
3	5.477	0.183	0.187	6.784e+05	9.2	1.835e+06	25.0	1.565e+04	0.2	0.0	0.0
4	5.839	0.171	0.187	7.298e+05	9.9	2.399e+05	3.3	1.014e+05	1.4	0.0	0.0
5	6.104	0.164	0.187	1.363e+06	18.5	4.939e+04	0.7	1.695e+05	2.3	0.0	0.0
6	7.625	0.131	0.175	1.536e+05	2.1	3759.47	5.12e-02	3.758e+06	51.2	0.0	0.0
7	9.608	0.104	0.154	8.116e+05	11.0	1.964e+04	0.3	3.052e+06	41.5	0.0	0.0
8	10.501	0.095	0.147	4.541e+04	0.6	2.357e+06	32.1	3421.80	4.66e-02	0.0	0.0
9	10.980	0.091	0.144	2.955e+06	40.2	2.449e+04	0.3	2.150e+05	2.9	0.0	0.0
Risulta				7.320e+06		7.026e+06		7.326e+06			
In percentuale				99.65		95.65		99.73			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.187 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.091 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
780.00	1.883e+06	2763.67	2175.00	0.0	217.50	2755.00	2175.00	1.314	0.003	0.0
682.50	7.486e+05	2797.04	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.089	0.0
585.00	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
487.50	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
390.00	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
292.50	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
195.00	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
97.50	7.857e+05	2835.44	2175.00	0.0	217.50	3039.81	2175.00	1.329	0.075	0.0
Risulta	7.346e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	3.589	0.279	0.187	4.30	5.85e-05	2.035e+06	27.7	0.03	0.0	0.0	0.0
2	5.187	0.193	0.187	5.831e+05	7.9	4.614e+05	6.3	1.142e+04	0.2	0.0	0.0
3	5.477	0.183	0.187	6.784e+05	9.2	1.835e+06	25.0	1.565e+04	0.2	0.0	0.0
4	5.839	0.171	0.187	7.298e+05	9.9	2.399e+05	3.3	1.014e+05	1.4	0.0	0.0
5	6.104	0.164	0.187	1.363e+06	18.5	4.939e+04	0.7	1.695e+05	2.3	0.0	0.0
6	7.625	0.131	0.175	1.536e+05	2.1	3759.46	5.12e-02	3.758e+06	51.2	0.0	0.0
7	9.608	0.104	0.154	8.116e+05	11.0	1.964e+04	0.3	3.052e+06	41.5	0.0	0.0
8	10.501	0.095	0.147	4.541e+04	0.6	2.357e+06	32.1	3421.80	4.66e-02	0.0	0.0
9	10.980	0.091	0.144	2.955e+06	40.2	2.449e+04	0.3	2.150e+05	2.9	0.0	0.0
Risulta				7.320e+06		7.026e+06		7.326e+06			
In percentuale				99.65		95.65		99.73			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.187 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.194 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
780.00	1.883e+06	2763.67	2175.00	275.50	0.0	2755.00	2175.00	1.314	0.003	0.0
682.50	7.486e+05	2797.04	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.089	0.0
585.00	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
487.50	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
390.00	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
292.50	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
195.00	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
97.50	7.857e+05	2835.44	2175.00	275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
Risulta	7.346e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	3.704	0.270	0.187	0.0	0.0	1.761e+06	24.0	0.0	0.0	0.0	0.0
2	5.160	0.194	0.187	0.0	0.0	2.815e+06	38.3	0.0	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
3	5.568	0.180	0.187	1.910e+06	26.0	0.0	0.0	9.140e+04	1.2	0.0	0.0
4	6.198	0.161	0.187	1.440e+06	19.6	0.0	0.0	2.033e+05	2.8	0.0	0.0
5	7.193	0.139	0.181	6518.40	8.87e-02	0.0	0.0	1.378e+06	18.8	0.0	0.0
6	8.213	0.122	0.168	1.291e+05	1.8	0.0	0.0	3.498e+06	47.6	0.0	0.0
7	9.863	0.101	0.152	1.800e+06	24.5	1.09e-06	0.0	1.771e+06	24.1	0.0	0.0
8	10.100	0.099	0.150	1.49e-06	0.0	2.396e+06	32.6	0.0	0.0	0.0	0.0
9	11.394	0.088	0.142	2.052e+06	27.9	0.0	0.0	3.933e+05	5.4	0.0	0.0
Risulta				7.337e+06		6.972e+06		7.335e+06			
In percentuale				99.89		94.91		99.86			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.187 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.102 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
780.00	1.883e+06	2763.67	2175.00	-275.50	0.0	2755.00	2175.00	1.314	0.003	0.0
682.50	7.486e+05	2797.04	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.089	0.0
585.00	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
487.50	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
390.00	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
292.50	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
195.00	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
97.50	7.857e+05	2835.44	2175.00	-275.50	0.0	3039.81	2175.00	1.329	0.075	0.0
Risulta	7.346e+06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	3.479	0.287	0.187	0.0	0.0	2.346e+06	31.9	0.0	0.0	0.0	0.0
2	5.568	0.180	0.187	1.914e+06	26.1	1.00e-06	0.0	9.137e+04	1.2	0.0	0.0
3	5.578	0.179	0.187	0.0	0.0	1.978e+06	26.9	0.0	0.0	0.0	0.0
4	6.199	0.161	0.187	1.436e+06	19.5	0.0	0.0	2.045e+05	2.8	0.0	0.0
5	7.176	0.139	0.182	6469.72	8.81e-02	0.0	0.0	1.343e+06	18.3	0.0	0.0
6	8.213	0.122	0.168	1.279e+05	1.7	0.0	0.0	3.535e+06	48.1	0.0	0.0
7	9.825	0.102	0.153	1.60e-06	0.0	2.612e+06	35.6	2.17e-06	0.0	0.0	0.0
8	9.862	0.101	0.152	1.801e+06	24.5	2.74e-06	0.0	1.768e+06	24.1	0.0	0.0
9	11.393	0.088	0.142	2.053e+06	27.9	0.0	0.0	3.924e+05	5.3	0.0	0.0
Risulta				7.337e+06		6.937e+06		7.335e+06			
In percentuale				99.89		94.44		99.86			

Di seguito si suddividono i tabulati per elemento strutturale e per livello di ciascuna delle tre zone, così da facilitare la consultazione dei dati e dei risultati ottenuti.

3.10 FONDAZIONE

La platea di fondazione ha spessore 70 cm ed è collocata circa a livello del terreno (estradosso +3,50 m).

3.10.1 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 sotto riportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

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

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

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

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	0.0	0.0	0.0	2	100.0	0.0	0.0	3	200.0	0.0	0.0
4	300.0	0.0	0.0	5	400.0	0.0	0.0	6	500.0	0.0	0.0
7	600.0	0.0	0.0	8	700.0	0.0	0.0	9	800.0	0.0	0.0
10	900.0	0.0	0.0	11	1000.0	0.0	0.0	12	1100.0	0.0	0.0
13	1200.0	0.0	0.0	14	1300.0	0.0	0.0	15	1400.0	0.0	0.0
16	1500.0	0.0	0.0	17	1600.0	0.0	0.0	18	1700.0	0.0	0.0
19	1800.0	0.0	0.0	20	1900.0	0.0	0.0	21	2000.0	0.0	0.0
22	2100.0	0.0	0.0	23	2200.0	0.0	0.0	24	2300.0	0.0	0.0
25	2400.0	0.0	0.0	26	2500.0	0.0	0.0	27	2600.0	0.0	0.0
28	2700.0	0.0	0.0	29	2800.0	0.0	0.0	30	2900.0	0.0	0.0
31	3000.0	0.0	0.0	32	3010.0	0.0	0.0	33	3110.0	0.0	0.0
34	3210.0	0.0	0.0	35	3310.0	0.0	0.0	36	3410.0	0.0	0.0
37	3510.0	0.0	0.0	38	3610.0	0.0	0.0	39	3710.0	0.0	0.0
40	3810.0	0.0	0.0	41	3910.0	0.0	0.0	42	4010.0	0.0	0.0
43	4110.0	0.0	0.0	44	4210.0	0.0	0.0	45	4310.0	0.0	0.0
46	4410.0	0.0	0.0	47	4510.0	0.0	0.0	48	4610.0	0.0	0.0
49	4710.0	0.0	0.0	50	4810.0	0.0	0.0	51	4910.0	0.0	0.0
52	5010.0	0.0	0.0	53	5110.0	0.0	0.0	54	5210.0	0.0	0.0
55	5310.0	0.0	0.0	56	5410.0	0.0	0.0	57	5510.0	0.0	0.0
58	0.0	96.7	0.0	59	100.0	96.7	0.0	60	200.0	96.7	0.0
61	300.0	96.7	0.0	62	400.0	96.7	0.0	63	500.0	96.7	0.0
64	600.0	96.7	0.0	65	700.0	96.7	0.0	66	800.0	96.7	0.0
67	900.0	96.7	0.0	68	1000.0	96.7	0.0	69	1100.0	96.7	0.0
70	1200.0	96.7	0.0	71	1300.0	96.7	0.0	72	1400.0	96.7	0.0
73	1500.0	96.7	0.0	74	1600.0	96.7	0.0	75	1700.0	96.7	0.0
76	1800.0	96.7	0.0	77	1900.0	96.7	0.0	78	2000.0	96.7	0.0
79	2100.0	96.7	0.0	80	2200.0	96.7	0.0	81	2300.0	96.7	0.0
82	2400.0	96.7	0.0	83	2500.0	96.7	0.0	84	2600.0	96.7	0.0
85	2700.0	96.7	0.0	86	2800.0	96.7	0.0	87	2900.0	96.7	0.0
88	3000.0	96.7	0.0	89	3010.0	96.7	0.0	90	3110.0	96.7	0.0
91	3210.0	96.7	0.0	92	3310.0	96.7	0.0	93	3410.0	96.7	0.0
94	3510.0	96.7	0.0	95	3610.0	96.7	0.0	96	3710.0	96.7	0.0
97	3810.0	96.7	0.0	98	3910.0	96.7	0.0	99	4010.0	96.7	0.0
100	4110.0	96.7	0.0	101	4210.0	96.7	0.0	102	4310.0	96.7	0.0
103	4410.0	96.7	0.0	104	4510.0	96.7	0.0	105	4610.0	96.7	0.0
106	4710.0	96.7	0.0	107	4810.0	96.7	0.0	108	4910.0	96.7	0.0
109	5010.0	96.7	0.0	110	5110.0	96.7	0.0	111	5210.0	96.7	0.0
112	5310.0	96.7	0.0	113	5410.0	96.7	0.0	114	5510.0	96.7	0.0
115	0.0	193.3	0.0	116	100.0	193.3	0.0	117	200.0	193.3	0.0
118	300.0	193.3	0.0	119	400.0	193.3	0.0	120	500.0	193.3	0.0
121	600.0	193.3	0.0	122	700.0	193.3	0.0	123	800.0	193.3	0.0
124	900.0	193.3	0.0	125	1000.0	193.3	0.0	126	1100.0	193.3	0.0
127	1200.0	193.3	0.0	128	1300.0	193.3	0.0	129	1400.0	193.3	0.0
130	1500.0	193.3	0.0	131	1600.0	193.3	0.0	132	1700.0	193.3	0.0
133	1800.0	193.3	0.0	134	1900.0	193.3	0.0	135	2000.0	193.3	0.0
136	2100.0	193.3	0.0	137	2200.0	193.3	0.0	138	2300.0	193.3	0.0
139	2400.0	193.3	0.0	140	2500.0	193.3	0.0	141	2600.0	193.3	0.0
142	2700.0	193.3	0.0	143	2800.0	193.3	0.0	144	2900.0	193.3	0.0
145	3000.0	193.3	0.0	146	3010.0	193.3	0.0	147	3110.0	193.3	0.0
148	3210.0	193.3	0.0	149	3310.0	193.3	0.0	150	3410.0	193.3	0.0
151	3510.0	193.3	0.0	152	3610.0	193.3	0.0	153	3710.0	193.3	0.0
154	3810.0	193.3	0.0	155	3910.0	193.3	0.0	156	4010.0	193.3	0.0
157	4110.0	193.3	0.0	158	4210.0	193.3	0.0	159	4310.0	193.3	0.0
160	4410.0	193.3	0.0	161	4510.0	193.3	0.0	162	4610.0	193.3	0.0
163	4710.0	193.3	0.0	164	4810.0	193.3	0.0	165	4910.0	193.3	0.0
166	5010.0	193.3	0.0	167	5110.0	193.3	0.0	168	5210.0	193.3	0.0
169	5310.0	193.3	0.0	170	5410.0	193.3	0.0	171	5510.0	193.3	0.0
172	0.0	290.0	0.0	173	100.0	290.0	0.0	174	200.0	290.0	0.0
175	300.0	290.0	0.0	176	400.0	290.0	0.0	177	500.0	290.0	0.0
178	600.0	290.0	0.0	179	700.0	290.0	0.0	180	800.0	290.0	0.0
181	900.0	290.0	0.0	182	1000.0	290.0	0.0	183	1100.0	290.0	0.0
184	1200.0	290.0	0.0	185	1300.0	290.0	0.0	186	1400.0	290.0	0.0
187	1500.0	290.0	0.0	188	1600.0	290.0	0.0	189	1700.0	290.0	0.0
190	1800.0	290.0	0.0	191	1900.0	290.0	0.0	192	2000.0	290.0	0.0
193	2100.0	290.0	0.0	194	2200.0	290.0	0.0	195	2300.0	290.0	0.0
196	2400.0	290.0	0.0	197	2500.0	290.0	0.0	198	2600.0	290.0	0.0
199	2700.0	290.0	0.0	200	2800.0	290.0	0.0	201	2900.0	290.0	0.0
202	3000.0	290.0	0.0	203	3010.0	290.0	0.0	204	3110.0	290.0	0.0
205	3210.0	290.0	0.0	206	3310.0	290.0	0.0	207	3410.0	290.0	0.0
208	3510.0	290.0	0.0	209	3610.0	290.0	0.0	210	3710.0	290.0	0.0
211	3810.0	290.0	0.0	212	3910.0	290.0	0.0	213	4010.0	290.0	0.0

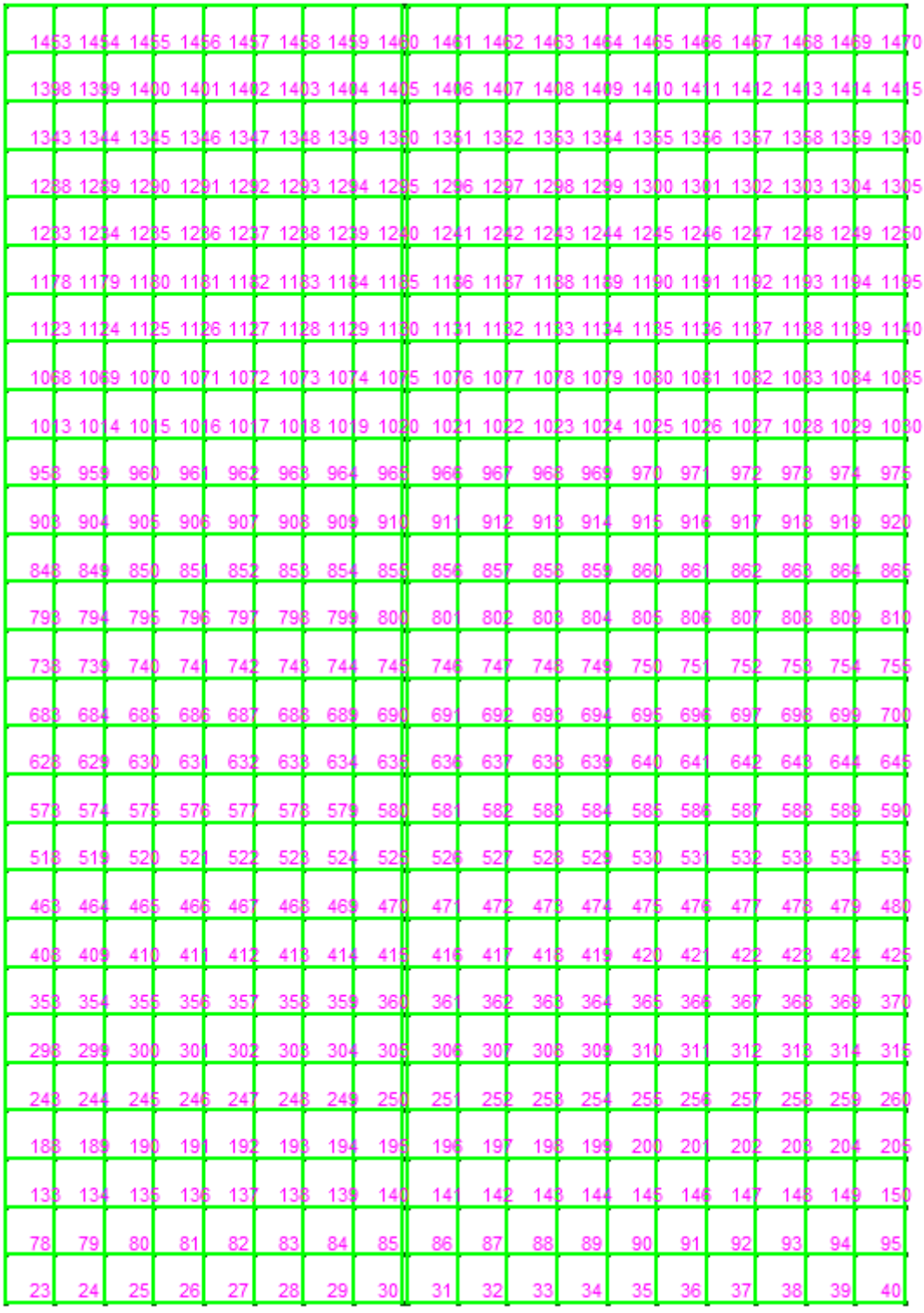
Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
214	4110.0	290.0	0.0	215	4210.0	290.0	0.0	216	4310.0	290.0	0.0
217	4410.0	290.0	0.0	218	4510.0	290.0	0.0	219	4610.0	290.0	0.0
220	4710.0	290.0	0.0	221	4810.0	290.0	0.0	222	4910.0	290.0	0.0
223	5010.0	290.0	0.0	224	5110.0	290.0	0.0	225	5210.0	290.0	0.0
226	5310.0	290.0	0.0	227	5410.0	290.0	0.0	228	5510.0	290.0	0.0
229	0.0	386.7	0.0	230	100.0	386.7	0.0	231	200.0	386.7	0.0
232	300.0	386.7	0.0	233	400.0	386.7	0.0	234	500.0	386.7	0.0
235	600.0	386.7	0.0	236	700.0	386.7	0.0	237	800.0	386.7	0.0
238	900.0	386.7	0.0	239	1000.0	386.7	0.0	240	1100.0	386.7	0.0
241	1200.0	386.7	0.0	242	1300.0	386.7	0.0	243	1400.0	386.7	0.0
244	1500.0	386.7	0.0	245	1600.0	386.7	0.0	246	1700.0	386.7	0.0
247	1800.0	386.7	0.0	248	1900.0	386.7	0.0	249	2000.0	386.7	0.0
250	2100.0	386.7	0.0	251	2200.0	386.7	0.0	252	2300.0	386.7	0.0
253	2400.0	386.7	0.0	254	2500.0	386.7	0.0	255	2600.0	386.7	0.0
256	2700.0	386.7	0.0	257	2800.0	386.7	0.0	258	2900.0	386.7	0.0
259	3000.0	386.7	0.0	260	3010.0	386.7	0.0	261	3110.0	386.7	0.0
262	3210.0	386.7	0.0	263	3310.0	386.7	0.0	264	3410.0	386.7	0.0
265	3510.0	386.7	0.0	266	3610.0	386.7	0.0	267	3710.0	386.7	0.0
268	3810.0	386.7	0.0	269	3910.0	386.7	0.0	270	4010.0	386.7	0.0
271	4110.0	386.7	0.0	272	4210.0	386.7	0.0	273	4310.0	386.7	0.0
274	4410.0	386.7	0.0	275	4510.0	386.7	0.0	276	4610.0	386.7	0.0
277	4710.0	386.7	0.0	278	4810.0	386.7	0.0	279	4910.0	386.7	0.0
280	5010.0	386.7	0.0	281	5110.0	386.7	0.0	282	5210.0	386.7	0.0
283	5310.0	386.7	0.0	284	5410.0	386.7	0.0	285	5510.0	386.7	0.0
286	0.0	483.3	0.0	287	100.0	483.3	0.0	288	200.0	483.3	0.0
289	300.0	483.3	0.0	290	400.0	483.3	0.0	291	500.0	483.3	0.0
292	600.0	483.3	0.0	293	700.0	483.3	0.0	294	800.0	483.3	0.0
295	900.0	483.3	0.0	296	1000.0	483.3	0.0	297	1100.0	483.3	0.0
298	1200.0	483.3	0.0	299	1300.0	483.3	0.0	300	1400.0	483.3	0.0
301	1500.0	483.3	0.0	302	1600.0	483.3	0.0	303	1700.0	483.3	0.0
304	1800.0	483.3	0.0	305	1900.0	483.3	0.0	306	2000.0	483.3	0.0
307	2100.0	483.3	0.0	308	2200.0	483.3	0.0	309	2300.0	483.3	0.0
310	2400.0	483.3	0.0	311	2500.0	483.3	0.0	312	2600.0	483.3	0.0
313	2700.0	483.3	0.0	314	2800.0	483.3	0.0	315	2900.0	483.3	0.0
316	3000.0	483.3	0.0	317	3010.0	483.3	0.0	318	3110.0	483.3	0.0
319	3210.0	483.3	0.0	320	3310.0	483.3	0.0	321	3410.0	483.3	0.0
322	3510.0	483.3	0.0	323	3610.0	483.3	0.0	324	3710.0	483.3	0.0
325	3810.0	483.3	0.0	326	3910.0	483.3	0.0	327	4010.0	483.3	0.0
328	4110.0	483.3	0.0	329	4210.0	483.3	0.0	330	4310.0	483.3	0.0
331	4410.0	483.3	0.0	332	4510.0	483.3	0.0	333	4610.0	483.3	0.0
334	4710.0	483.3	0.0	335	4810.0	483.3	0.0	336	4910.0	483.3	0.0
337	5010.0	483.3	0.0	338	5110.0	483.3	0.0	339	5210.0	483.3	0.0
340	5310.0	483.3	0.0	341	5410.0	483.3	0.0	342	5510.0	483.3	0.0
343	0.0	580.0	0.0	344	100.0	580.0	0.0	345	200.0	580.0	0.0
346	300.0	580.0	0.0	347	400.0	580.0	0.0	348	500.0	580.0	0.0
349	600.0	580.0	0.0	350	700.0	580.0	0.0	351	800.0	580.0	0.0
352	900.0	580.0	0.0	353	1000.0	580.0	0.0	354	1100.0	580.0	0.0
355	1200.0	580.0	0.0	356	1300.0	580.0	0.0	357	1400.0	580.0	0.0
358	1500.0	580.0	0.0	359	1600.0	580.0	0.0	360	1700.0	580.0	0.0
361	1800.0	580.0	0.0	362	1900.0	580.0	0.0	363	2000.0	580.0	0.0
364	2100.0	580.0	0.0	365	2200.0	580.0	0.0	366	2300.0	580.0	0.0
367	2400.0	580.0	0.0	368	2500.0	580.0	0.0	369	2600.0	580.0	0.0
370	2700.0	580.0	0.0	371	2800.0	580.0	0.0	372	2900.0	580.0	0.0
373	3000.0	580.0	0.0	374	3010.0	580.0	0.0	375	3110.0	580.0	0.0
376	3210.0	580.0	0.0	377	3310.0	580.0	0.0	378	3410.0	580.0	0.0
379	3510.0	580.0	0.0	380	3610.0	580.0	0.0	381	3710.0	580.0	0.0
382	3810.0	580.0	0.0	383	3910.0	580.0	0.0	384	4010.0	580.0	0.0
385	4110.0	580.0	0.0	386	4210.0	580.0	0.0	387	4310.0	580.0	0.0
388	4410.0	580.0	0.0	389	4510.0	580.0	0.0	390	4610.0	580.0	0.0
391	4710.0	580.0	0.0	392	4810.0	580.0	0.0	393	4910.0	580.0	0.0
394	5010.0	580.0	0.0	395	5110.0	580.0	0.0	396	5210.0	580.0	0.0
397	5310.0	580.0	0.0	398	5410.0	580.0	0.0	399	5510.0	580.0	0.0
400	0.0	676.7	0.0	401	100.0	676.7	0.0	402	200.0	676.7	0.0
403	300.0	676.7	0.0	404	400.0	676.7	0.0	405	500.0	676.7	0.0
406	600.0	676.7	0.0	407	700.0	676.7	0.0	408	800.0	676.7	0.0
409	900.0	676.7	0.0	410	1000.0	676.7	0.0	411	1100.0	676.7	0.0
412	1200.0	676.7	0.0	413	1300.0	676.7	0.0	414	1400.0	676.7	0.0
415	1500.0	676.7	0.0	416	1600.0	676.7	0.0	417	1700.0	676.7	0.0
418	1800.0	676.7	0.0	419	1900.0	676.7	0.0	420	2000.0	676.7	0.0
421	2100.0	676.7	0.0	422	2200.0	676.7	0.0	423	2300.0	676.7	0.0
424	2400.0	676.7	0.0	425	2500.0	676.7	0.0	426	2600.0	676.7	0.0
427	2700.0	676.7	0.0	428	2800.0	676.7	0.0	429	2900.0	676.7	0.0
430	3000.0	676.7	0.0	431	3010.0	676.7	0.0	432	3110.0	676.7	0.0
433	3210.0	676.7	0.0	434	3310.0	676.7	0.0	435	3410.0	676.7	0.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
436	3510.0	676.7	0.0	437	3610.0	676.7	0.0	438	3710.0	676.7	0.0
439	3810.0	676.7	0.0	440	3910.0	676.7	0.0	441	4010.0	676.7	0.0
442	4110.0	676.7	0.0	443	4210.0	676.7	0.0	444	4310.0	676.7	0.0
445	4410.0	676.7	0.0	446	4510.0	676.7	0.0	447	4610.0	676.7	0.0
448	4710.0	676.7	0.0	449	4810.0	676.7	0.0	450	4910.0	676.7	0.0
451	5010.0	676.7	0.0	452	5110.0	676.7	0.0	453	5210.0	676.7	0.0
454	5310.0	676.7	0.0	455	5410.0	676.7	0.0	456	5510.0	676.7	0.0
457	0.0	773.3	0.0	458	100.0	773.3	0.0	459	200.0	773.3	0.0
460	300.0	773.3	0.0	461	400.0	773.3	0.0	462	500.0	773.3	0.0
463	600.0	773.3	0.0	464	700.0	773.3	0.0	465	800.0	773.3	0.0
466	900.0	773.3	0.0	467	1000.0	773.3	0.0	468	1100.0	773.3	0.0
469	1200.0	773.3	0.0	470	1300.0	773.3	0.0	471	1400.0	773.3	0.0
472	1500.0	773.3	0.0	473	1600.0	773.3	0.0	474	1700.0	773.3	0.0
475	1800.0	773.3	0.0	476	1900.0	773.3	0.0	477	2000.0	773.3	0.0
478	2100.0	773.3	0.0	479	2200.0	773.3	0.0	480	2300.0	773.3	0.0
481	2400.0	773.3	0.0	482	2500.0	773.3	0.0	483	2600.0	773.3	0.0
484	2700.0	773.3	0.0	485	2800.0	773.3	0.0	486	2900.0	773.3	0.0
487	3000.0	773.3	0.0	488	3010.0	773.3	0.0	489	3110.0	773.3	0.0
490	3210.0	773.3	0.0	491	3310.0	773.3	0.0	492	3410.0	773.3	0.0
493	3510.0	773.3	0.0	494	3610.0	773.3	0.0	495	3710.0	773.3	0.0
496	3810.0	773.3	0.0	497	3910.0	773.3	0.0	498	4010.0	773.3	0.0
499	4110.0	773.3	0.0	500	4210.0	773.3	0.0	501	4310.0	773.3	0.0
502	4410.0	773.3	0.0	503	4510.0	773.3	0.0	504	4610.0	773.3	0.0
505	4710.0	773.3	0.0	506	4810.0	773.3	0.0	507	4910.0	773.3	0.0
508	5010.0	773.3	0.0	509	5110.0	773.3	0.0	510	5210.0	773.3	0.0
511	5310.0	773.3	0.0	512	5410.0	773.3	0.0	513	5510.0	773.3	0.0
514	0.0	870.0	0.0	515	100.0	870.0	0.0	516	200.0	870.0	0.0
517	300.0	870.0	0.0	518	400.0	870.0	0.0	519	500.0	870.0	0.0
520	600.0	870.0	0.0	521	700.0	870.0	0.0	522	800.0	870.0	0.0
523	900.0	870.0	0.0	524	1000.0	870.0	0.0	525	1100.0	870.0	0.0
526	1200.0	870.0	0.0	527	1300.0	870.0	0.0	528	1400.0	870.0	0.0
529	1500.0	870.0	0.0	530	1600.0	870.0	0.0	531	1700.0	870.0	0.0
532	1800.0	870.0	0.0	533	1900.0	870.0	0.0	534	2000.0	870.0	0.0
535	2100.0	870.0	0.0	536	2200.0	870.0	0.0	537	2300.0	870.0	0.0
538	2400.0	870.0	0.0	539	2500.0	870.0	0.0	540	2600.0	870.0	0.0
541	2700.0	870.0	0.0	542	2800.0	870.0	0.0	543	2900.0	870.0	0.0
544	3000.0	870.0	0.0	545	3010.0	870.0	0.0	546	3110.0	870.0	0.0
547	3210.0	870.0	0.0	548	3310.0	870.0	0.0	549	3410.0	870.0	0.0
550	3510.0	870.0	0.0	551	3610.0	870.0	0.0	552	3710.0	870.0	0.0
553	3810.0	870.0	0.0	554	3910.0	870.0	0.0	555	4010.0	870.0	0.0
556	4110.0	870.0	0.0	557	4210.0	870.0	0.0	558	4310.0	870.0	0.0
559	4410.0	870.0	0.0	560	4510.0	870.0	0.0	561	4610.0	870.0	0.0
562	4710.0	870.0	0.0	563	4810.0	870.0	0.0	564	4910.0	870.0	0.0
565	5010.0	870.0	0.0	566	5110.0	870.0	0.0	567	5210.0	870.0	0.0
568	5310.0	870.0	0.0	569	5410.0	870.0	0.0	570	5510.0	870.0	0.0
571	0.0	966.7	0.0	572	100.0	966.7	0.0	573	200.0	966.7	0.0
574	300.0	966.7	0.0	575	400.0	966.7	0.0	576	500.0	966.7	0.0
577	600.0	966.7	0.0	578	700.0	966.7	0.0	579	800.0	966.7	0.0
580	900.0	966.7	0.0	581	1000.0	966.7	0.0	582	1100.0	966.7	0.0
583	1200.0	966.7	0.0	584	1300.0	966.7	0.0	585	1400.0	966.7	0.0
586	1500.0	966.7	0.0	587	1600.0	966.7	0.0	588	1700.0	966.7	0.0
…											
2620	5310.0	4350.0	0.0	2621	5410.0	4350.0	0.0	2622	5510.0	4350.0	0.0

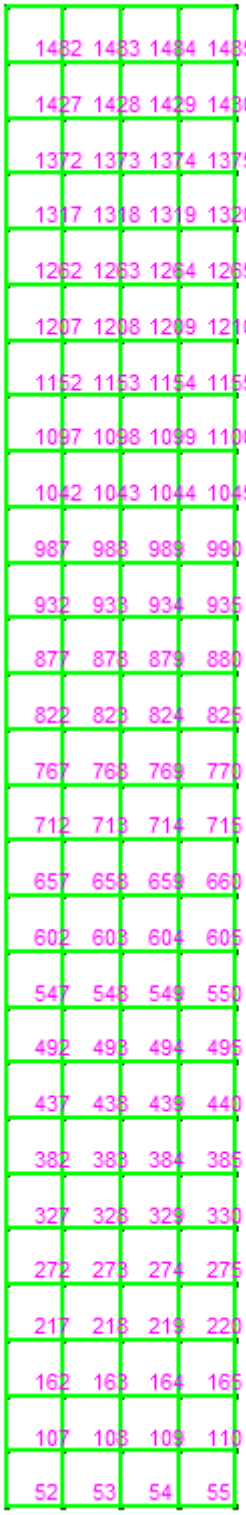
Numerazione elementi striscia laterale a sinistra



Numerazione elementi striscia centrale a cavallo del giunto strutturale



Numerazione elementi striscia laterale a destra



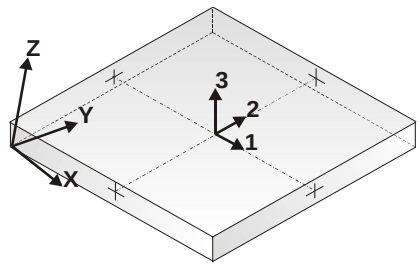
3.10.2 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

LEGENDA TABELLA DATI SHELL

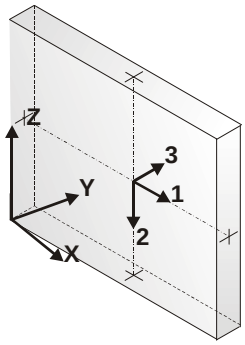
Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.

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.



orientamento elementi 3D non verticali



orientamento elementi 3D verticali

In particolare per ogni elemento viene indicato in tabella:

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

TABELLA DATI SHELL

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
1	Guscio fond.	1	2	59	58	4	70.0	1.00	1.00
2	Guscio fond.	2	3	60	59	4	70.0	1.00	1.00
3	Guscio fond.	3	4	61	60	4	70.0	1.00	1.00
4	Guscio fond.	4	5	62	61	4	70.0	1.00	1.00
5	Guscio fond.	5	6	63	62	4	70.0	1.00	1.00
6	Guscio fond.	6	7	64	63	4	70.0	1.00	1.00
7	Guscio fond.	7	8	65	64	4	70.0	1.00	1.00
8	Guscio fond.	8	9	66	65	4	70.0	1.00	1.00
9	Guscio fond.	9	10	67	66	4	70.0	1.00	1.00
10	Guscio fond.	10	11	68	67	4	70.0	1.00	1.00
11	Guscio fond.	11	12	69	68	4	70.0	1.00	1.00
12	Guscio fond.	12	13	70	69	4	70.0	1.00	1.00
13	Guscio fond.	13	14	71	70	4	70.0	1.00	1.00
14	Guscio fond.	14	15	72	71	4	70.0	1.00	1.00
15	Guscio fond.	15	16	73	72	4	70.0	1.00	1.00
16	Guscio fond.	16	17	74	73	4	70.0	1.00	1.00
17	Guscio fond.	17	18	75	74	4	70.0	1.00	1.00
18	Guscio fond.	18	19	76	75	4	70.0	1.00	1.00
19	Guscio fond.	19	20	77	76	4	70.0	1.00	1.00
20	Guscio fond.	20	21	78	77	4	70.0	1.00	1.00
21	Guscio fond.	21	22	79	78	4	70.0	1.00	1.00
22	Guscio fond.	22	23	80	79	4	70.0	1.00	1.00
23	Guscio fond.	23	24	81	80	4	70.0	1.00	1.00
24	Guscio fond.	24	25	82	81	4	70.0	1.00	1.00
25	Guscio fond.	25	26	83	82	4	70.0	1.00	1.00
26	Guscio fond.	26	27	84	83	4	70.0	1.00	1.00
27	Guscio fond.	27	28	85	84	4	70.0	1.00	1.00
28	Guscio fond.	28	29	86	85	4	70.0	1.00	1.00
29	Guscio fond.	29	30	87	86	4	70.0	1.00	1.00
30	Guscio fond.	30	31	88	87	4	70.0	1.00	1.00
31	Guscio fond.	32	33	90	89	4	70.0	1.00	1.00
32	Guscio fond.	33	34	91	90	4	70.0	1.00	1.00
33	Guscio fond.	34	35	92	91	4	70.0	1.00	1.00
34	Guscio fond.	35	36	93	92	4	70.0	1.00	1.00
35	Guscio fond.	36	37	94	93	4	70.0	1.00	1.00
36	Guscio fond.	37	38	95	94	4	70.0	1.00	1.00
37	Guscio fond.	38	39	96	95	4	70.0	1.00	1.00
38	Guscio fond.	39	40	97	96	4	70.0	1.00	1.00
39	Guscio fond.	40	41	98	97	4	70.0	1.00	1.00
40	Guscio fond.	41	42	99	98	4	70.0	1.00	1.00
41	Guscio fond.	42	43	100	99	4	70.0	1.00	1.00
42	Guscio fond.	43	44	101	100	4	70.0	1.00	1.00
43	Guscio fond.	44	45	102	101	4	70.0	1.00	1.00
44	Guscio fond.	45	46	103	102	4	70.0	1.00	1.00
45	Guscio fond.	46	47	104	103	4	70.0	1.00	1.00
46	Guscio fond.	47	48	105	104	4	70.0	1.00	1.00
47	Guscio fond.	48	49	106	105	4	70.0	1.00	1.00
48	Guscio fond.	49	50	107	106	4	70.0	1.00	1.00
49	Guscio fond.	50	51	108	107	4	70.0	1.00	1.00
50	Guscio fond.	51	52	109	108	4	70.0	1.00	1.00
51	Guscio fond.	52	53	110	109	4	70.0	1.00	1.00
52	Guscio fond.	53	54	111	110	4	70.0	1.00	1.00
53	Guscio fond.	54	55	112	111	4	70.0	1.00	1.00
54	Guscio fond.	55	56	113	112	4	70.0	1.00	1.00
55	Guscio fond.	56	57	114	113	4	70.0	1.00	1.00
56	Guscio fond.	58	59	116	115	4	70.0	1.00	1.00
57	Guscio fond.	59	60	117	116	4	70.0	1.00	1.00
58	Guscio fond.	60	61	118	117	4	70.0	1.00	1.00
59	Guscio fond.	61	62	119	118	4	70.0	1.00	1.00
60	Guscio fond.	62	63	120	119	4	70.0	1.00	1.00
61	Guscio fond.	63	64	121	120	4	70.0	1.00	1.00
62	Guscio fond.	64	65	122	121	4	70.0	1.00	1.00
63	Guscio fond.	65	66	123	122	4	70.0	1.00	1.00
64	Guscio fond.	66	67	124	123	4	70.0	1.00	1.00
65	Guscio fond.	67	68	125	124	4	70.0	1.00	1.00
66	Guscio fond.	68	69	126	125	4	70.0	1.00	1.00
67	Guscio fond.	69	70	127	126	4	70.0	1.00	1.00
68	Guscio fond.	70	71	128	127	4	70.0	1.00	1.00
69	Guscio fond.	71	72	129	128	4	70.0	1.00	1.00
70	Guscio fond.	72	73	130	129	4	70.0	1.00	1.00
71	Guscio fond.	73	74	131	130	4	70.0	1.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
72	Guscio fond.	74	75	132	131	4	70.0	1.00	1.00
73	Guscio fond.	75	76	133	132	4	70.0	1.00	1.00
74	Guscio fond.	76	77	134	133	4	70.0	1.00	1.00
75	Guscio fond.	77	78	135	134	4	70.0	1.00	1.00
76	Guscio fond.	78	79	136	135	4	70.0	1.00	1.00
77	Guscio fond.	79	80	137	136	4	70.0	1.00	1.00
78	Guscio fond.	80	81	138	137	4	70.0	1.00	1.00
79	Guscio fond.	81	82	139	138	4	70.0	1.00	1.00
80	Guscio fond.	82	83	140	139	4	70.0	1.00	1.00
81	Guscio fond.	83	84	141	140	4	70.0	1.00	1.00
82	Guscio fond.	84	85	142	141	4	70.0	1.00	1.00
83	Guscio fond.	85	86	143	142	4	70.0	1.00	1.00
84	Guscio fond.	86	87	144	143	4	70.0	1.00	1.00
85	Guscio fond.	87	88	145	144	4	70.0	1.00	1.00
86	Guscio fond.	89	90	147	146	4	70.0	1.00	1.00
87	Guscio fond.	90	91	148	147	4	70.0	1.00	1.00
88	Guscio fond.	91	92	149	148	4	70.0	1.00	1.00
89	Guscio fond.	92	93	150	149	4	70.0	1.00	1.00
90	Guscio fond.	93	94	151	150	4	70.0	1.00	1.00
91	Guscio fond.	94	95	152	151	4	70.0	1.00	1.00
92	Guscio fond.	95	96	153	152	4	70.0	1.00	1.00
93	Guscio fond.	96	97	154	153	4	70.0	1.00	1.00
94	Guscio fond.	97	98	155	154	4	70.0	1.00	1.00
95	Guscio fond.	98	99	156	155	4	70.0	1.00	1.00
96	Guscio fond.	99	100	157	156	4	70.0	1.00	1.00
97	Guscio fond.	100	101	158	157	4	70.0	1.00	1.00
98	Guscio fond.	101	102	159	158	4	70.0	1.00	1.00
99	Guscio fond.	102	103	160	159	4	70.0	1.00	1.00
100	Guscio fond.	103	104	161	160	4	70.0	1.00	1.00
101	Guscio fond.	104	105	162	161	4	70.0	1.00	1.00
102	Guscio fond.	105	106	163	162	4	70.0	1.00	1.00
103	Guscio fond.	106	107	164	163	4	70.0	1.00	1.00
104	Guscio fond.	107	108	165	164	4	70.0	1.00	1.00
105	Guscio fond.	108	109	166	165	4	70.0	1.00	1.00
106	Guscio fond.	109	110	167	166	4	70.0	1.00	1.00
107	Guscio fond.	110	111	168	167	4	70.0	1.00	1.00
108	Guscio fond.	111	112	169	168	4	70.0	1.00	1.00
109	Guscio fond.	112	113	170	169	4	70.0	1.00	1.00
110	Guscio fond.	113	114	171	170	4	70.0	1.00	1.00
111	Guscio fond.	115	116	173	172	4	70.0	1.00	1.00
112	Guscio fond.	116	117	174	173	4	70.0	1.00	1.00
113	Guscio fond.	117	118	175	174	4	70.0	1.00	1.00
114	Guscio fond.	118	119	176	175	4	70.0	1.00	1.00
115	Guscio fond.	119	120	177	176	4	70.0	1.00	1.00
116	Guscio fond.	120	121	178	177	4	70.0	1.00	1.00
117	Guscio fond.	121	122	179	178	4	70.0	1.00	1.00
118	Guscio fond.	122	123	180	179	4	70.0	1.00	1.00
119	Guscio fond.	123	124	181	180	4	70.0	1.00	1.00
120	Guscio fond.	124	125	182	181	4	70.0	1.00	1.00
121	Guscio fond.	125	126	183	182	4	70.0	1.00	1.00
122	Guscio fond.	126	127	184	183	4	70.0	1.00	1.00
123	Guscio fond.	127	128	185	184	4	70.0	1.00	1.00
124	Guscio fond.	128	129	186	185	4	70.0	1.00	1.00
125	Guscio fond.	129	130	187	186	4	70.0	1.00	1.00
126	Guscio fond.	130	131	188	187	4	70.0	1.00	1.00
127	Guscio fond.	131	132	189	188	4	70.0	1.00	1.00
128	Guscio fond.	132	133	190	189	4	70.0	1.00	1.00
129	Guscio fond.	133	134	191	190	4	70.0	1.00	1.00
130	Guscio fond.	134	135	192	191	4	70.0	1.00	1.00
131	Guscio fond.	135	136	193	192	4	70.0	1.00	1.00
132	Guscio fond.	136	137	194	193	4	70.0	1.00	1.00
133	Guscio fond.	137	138	195	194	4	70.0	1.00	1.00
134	Guscio fond.	138	139	196	195	4	70.0	1.00	1.00
135	Guscio fond.	139	140	197	196	4	70.0	1.00	1.00
136	Guscio fond.	140	141	198	197	4	70.0	1.00	1.00
137	Guscio fond.	141	142	199	198	4	70.0	1.00	1.00
138	Guscio fond.	142	143	200	199	4	70.0	1.00	1.00
139	Guscio fond.	143	144	201	200	4	70.0	1.00	1.00
140	Guscio fond.	144	145	202	201	4	70.0	1.00	1.00
141	Guscio fond.	146	147	204	203	4	70.0	1.00	1.00
142	Guscio fond.	147	148	205	204	4	70.0	1.00	1.00
143	Guscio fond.	148	149	206	205	4	70.0	1.00	1.00
144	Guscio fond.	149	150	207	206	4	70.0	1.00	1.00
145	Guscio fond.	150	151	208	207	4	70.0	1.00	1.00

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
146	Guscio fond.	151	152	209	208	4	70.0	1.00	1.00
147	Guscio fond.	152	153	210	209	4	70.0	1.00	1.00
148	Guscio fond.	153	154	211	210	4	70.0	1.00	1.00
149	Guscio fond.	154	155	212	211	4	70.0	1.00	1.00
150	Guscio fond.	155	156	213	212	4	70.0	1.00	1.00
151	Guscio fond.	156	157	214	213	4	70.0	1.00	1.00
152	Guscio fond.	157	158	215	214	4	70.0	1.00	1.00
153	Guscio fond.	158	159	216	215	4	70.0	1.00	1.00
154	Guscio fond.	159	160	217	216	4	70.0	1.00	1.00
155	Guscio fond.	160	161	218	217	4	70.0	1.00	1.00
156	Guscio fond.	161	162	219	218	4	70.0	1.00	1.00
157	Guscio fond.	162	163	220	219	4	70.0	1.00	1.00
158	Guscio fond.	163	164	221	220	4	70.0	1.00	1.00
159	Guscio fond.	164	165	222	221	4	70.0	1.00	1.00
160	Guscio fond.	165	166	223	222	4	70.0	1.00	1.00
161	Guscio fond.	166	167	224	223	4	70.0	1.00	1.00
162	Guscio fond.	167	168	225	224	4	70.0	1.00	1.00
163	Guscio fond.	168	169	226	225	4	70.0	1.00	1.00
164	Guscio fond.	169	170	227	226	4	70.0	1.00	1.00
165	Guscio fond.	170	171	228	227	4	70.0	1.00	1.00
166	Guscio fond.	172	173	230	229	4	70.0	1.00	1.00
167	Guscio fond.	173	174	231	230	4	70.0	1.00	1.00
168	Guscio fond.	174	175	232	231	4	70.0	1.00	1.00
169	Guscio fond.	175	176	233	232	4	70.0	1.00	1.00
170	Guscio fond.	176	177	234	233	4	70.0	1.00	1.00
171	Guscio fond.	177	178	235	234	4	70.0	1.00	1.00
172	Guscio fond.	178	179	236	235	4	70.0	1.00	1.00
173	Guscio fond.	179	180	237	236	4	70.0	1.00	1.00
174	Guscio fond.	180	181	238	237	4	70.0	1.00	1.00
175	Guscio fond.	181	182	239	238	4	70.0	1.00	1.00
176	Guscio fond.	182	183	240	239	4	70.0	1.00	1.00
177	Guscio fond.	183	184	241	240	4	70.0	1.00	1.00
178	Guscio fond.	184	185	242	241	4	70.0	1.00	1.00
179	Guscio fond.	185	186	243	242	4	70.0	1.00	1.00
180	Guscio fond.	186	187	244	243	4	70.0	1.00	1.00
181	Guscio fond.	187	188	245	244	4	70.0	1.00	1.00
182	Guscio fond.	188	189	246	245	4	70.0	1.00	1.00
183	Guscio fond.	189	190	247	246	4	70.0	1.00	1.00
184	Guscio fond.	190	191	248	247	4	70.0	1.00	1.00
185	Guscio fond.	191	192	249	248	4	70.0	1.00	1.00
186	Guscio fond.	192	193	250	249	4	70.0	1.00	1.00
187	Guscio fond.	193	194	251	250	4	70.0	1.00	1.00
188	Guscio fond.	194	195	252	251	4	70.0	1.00	1.00
189	Guscio fond.	195	196	253	252	4	70.0	1.00	1.00
190	Guscio fond.	196	197	254	253	4	70.0	1.00	1.00
191	Guscio fond.	197	198	255	254	4	70.0	1.00	1.00
192	Guscio fond.	198	199	256	255	4	70.0	1.00	1.00
193	Guscio fond.	199	200	257	256	4	70.0	1.00	1.00
194	Guscio fond.	200	201	258	257	4	70.0	1.00	1.00
195	Guscio fond.	201	202	259	258	4	70.0	1.00	1.00
196	Guscio fond.	203	204	261	260	4	70.0	1.00	1.00
197	Guscio fond.	204	205	262	261	4	70.0	1.00	1.00
198	Guscio fond.	205	206	263	262	4	70.0	1.00	1.00
199	Guscio fond.	206	207	264	263	4	70.0	1.00	1.00
200	Guscio fond.	207	208	265	264	4	70.0	1.00	1.00
201	Guscio fond.	208	209	266	265	4	70.0	1.00	1.00
202	Guscio fond.	209	210	267	266	4	70.0	1.00	1.00
203	Guscio fond.	210	211	268	267	4	70.0	1.00	1.00
204	Guscio fond.	211	212	269	268	4	70.0	1.00	1.00
205	Guscio fond.	212	213	270	269	4	70.0	1.00	1.00
206	Guscio fond.	213	214	271	270	4	70.0	1.00	1.00
207	Guscio fond.	214	215	272	271	4	70.0	1.00	1.00
208	Guscio fond.	215	216	273	272	4	70.0	1.00	1.00
209	Guscio fond.	216	217	274	273	4	70.0	1.00	1.00
210	Guscio fond.	217	218	275	274	4	70.0	1.00	1.00
211	Guscio fond.	218	219	276	275	4	70.0	1.00	1.00
212	Guscio fond.	219	220	277	276	4	70.0	1.00	1.00
213	Guscio fond.	220	221	278	277	4	70.0	1.00	1.00
214	Guscio fond.	221	222	279	278	4	70.0	1.00	1.00
...									
2475	Guscio fond.	2564	2565	2622	2621	4	70.0	1.00	1.00

3.10.3 RISULTATI OPERE DI FONDAZIONE

LEGENDA RISULTATI OPERE DI FONDAZIONE

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

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

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

RISULTATI OPERE DI FONDAZIONE

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
1	-0.88	-0.89	-0.91	-0.92	-0.68	-0.69	-0.70	-0.72	-1.56	-1.18	-1.87
	-0.88	-1.91	-1.16	-1.31	-1.65	-1.80	-1.14	-1.34	-1.62	-1.82	-1.19
	-1.34	-1.62	-1.77	-1.16	-1.36	-1.59	-1.80	-1.14	-1.65	-1.29	-1.80
	-1.15	-1.66	-1.28	-1.79	-1.06	-1.73	-1.21	-1.88	-1.07	-1.74	-1.20
	-1.87	-1.32	-1.39	-1.55	-1.62	-1.31	-1.40	-1.53	-1.63	-1.33	-1.40
	-1.53	-1.61	-1.32	-1.42	-1.52	-1.62	-1.31	-1.55	-1.37	-1.62	-1.31
	-1.56	-1.37	-1.62	-1.27	-1.59	-1.34	-1.66	-1.27	-1.59	-1.33	-1.66
	-0.68	-0.68	-0.69	-0.70	-1.46	-0.68	-0.68	-0.69	-0.70	-0.68	-0.69
	-0.70	-0.68	-0.68	-0.69	-0.70	-1.22	-0.93	-1.46	-0.70	-1.46	
2	-0.87	-0.89	-0.90	-0.92	-0.67	-0.68	-0.70	-0.71	-1.58	-1.16	-1.86
	-0.87	-1.91	-1.18	-1.33	-1.62	-1.78	-1.15	-1.35	-1.60	-1.80	-1.20
	-1.35	-1.60	-1.75	-1.18	-1.38	-1.57	-1.78	-1.15	-1.66	-1.28	-1.79
	-1.15	-1.67	-1.27	-1.79	-1.07	-1.74	-1.20	-1.87	-1.07	-1.74	-1.19
	-1.86	-1.32	-1.40	-1.53	-1.61	-1.31	-1.41	-1.52	-1.62	-1.33	-1.41
	-1.52	-1.60	-1.32	-1.42	-1.51	-1.61	-1.31	-1.56	-1.37	-1.62	-1.31
	-1.56	-1.37	-1.61	-1.27	-1.59	-1.33	-1.66	-1.27	-1.60	-1.33	-1.65
	-0.67	-0.68	-0.69	-0.70	-1.46	-0.67	-0.68	-0.69	-0.70	-0.68	-0.69
	-0.70	-0.67	-0.68	-0.69	-0.70	-1.24	-0.91	-1.46	-0.70	-1.46	
3	-0.87	-0.88	-0.90	-0.91	-0.67	-0.68	-0.70	-0.71	-1.60	-1.14	-1.86
	-0.87	-1.90	-1.19	-1.35	-1.60	-1.76	-1.17	-1.37	-1.58	-1.78	-1.21
	-1.37	-1.58	-1.74	-1.19	-1.39	-1.56	-1.76	-1.15	-1.67	-1.27	-1.79
	-1.15	-1.67	-1.26	-1.78	-1.07	-1.74	-1.19	-1.87	-1.08	-1.75	-1.19
	-1.86	-1.33	-1.41	-1.52	-1.60	-1.32	-1.42	-1.51	-1.61	-1.34	-1.42
	-1.51	-1.59	-1.33	-1.43	-1.50	-1.60	-1.31	-1.56	-1.36	-1.62	-1.31
	-1.56	-1.36	-1.61	-1.27	-1.60	-1.33	-1.65	-1.27	-1.60	-1.33	-1.65
	-0.67	-0.68	-0.69	-0.70	-1.46	-0.67	-0.68	-0.69	-0.69	-0.68	-0.69
	-0.69	-0.67	-0.68	-0.69	-0.69	-1.25	-0.90	-1.45	-0.69	-1.45	
4	-0.87	-0.88	-0.90	-0.91	-0.67	-0.68	-0.70	-0.71	-1.61	-1.12	-1.86
	-0.87	-1.90	-1.21	-1.37	-1.58	-1.74	-1.19	-1.39	-1.56	-1.76	-1.23
	-1.39	-1.56	-1.72	-1.20	-1.41	-1.54	-1.74	-1.15	-1.68	-1.26	-1.79
	-1.15	-1.69	-1.25	-1.79	-1.08	-1.75	-1.19	-1.86	-1.08	-1.76	-1.18
	-1.86	-1.34	-1.42	-1.51	-1.59	-1.33	-1.43	-1.50	-1.60	-1.35	-1.42
	-1.50	-1.58	-1.34	-1.43	-1.49	-1.59	-1.31	-1.56	-1.36	-1.62	-1.31
	-1.57	-1.36	-1.61	-1.27	-1.60	-1.33	-1.65	-1.28	-1.60	-1.32	-1.65
	-0.67	-0.68	-0.69	-0.70	-1.46	-0.67	-0.67	-0.69	-0.69	-0.67	-0.69
	-0.69	-0.67	-0.67	-0.69	-0.69	-1.26	-0.88	-1.45	-0.69	-1.45	
5	-0.87	-0.88	-0.90	-0.91	-0.67	-0.68	-0.70	-0.71	-1.63	-1.10	-1.86
	-0.87	-1.90	-1.22	-1.39	-1.56	-1.72	-1.20	-1.41	-1.54	-1.74	-1.24
	-1.40	-1.54	-1.70	-1.22	-1.42	-1.52	-1.73	-1.15	-1.69	-1.25	-1.79
	-1.15	-1.70	-1.25	-1.79	-1.08	-1.76	-1.18	-1.86	-1.08	-1.77	-1.17
	-1.86	-1.34	-1.42	-1.50	-1.58	-1.34	-1.43	-1.49	-1.59	-1.35	-1.43
	-1.50	-1.57	-1.34	-1.44	-1.49	-1.58	-1.31	-1.57	-1.35	-1.62	-1.31
	-1.57	-1.35	-1.62	-1.27	-1.60	-1.32	-1.65	-1.28	-1.61	-1.32	-1.65
	-0.67	-0.67	-0.69	-0.69	-1.46	-0.67	-0.67	-0.69	-0.69	-0.67	-0.68
	-0.69	-0.67	-0.67	-0.68	-0.69	-1.28	-0.87	-1.45	-0.69	-1.45	
6	-0.86	-0.87	-0.90	-0.91	-0.66	-0.67	-0.70	-0.71	-1.65	-1.08	-1.86
	-0.86	-1.90	-1.24	-1.41	-1.54	-1.70	-1.22	-1.43	-1.52	-1.72	-1.25
	-1.42	-1.52	-1.69	-1.23	-1.44	-1.50	-1.71	-1.15	-1.71	-1.24	-1.80
	-1.15	-1.71	-1.23	-1.79	-1.08	-1.77	-1.17	-1.86	-1.09	-1.78	-1.17
	-1.86	-1.35	-1.43	-1.49	-1.57	-1.34	-1.44	-1.48	-1.58	-1.36	-1.44

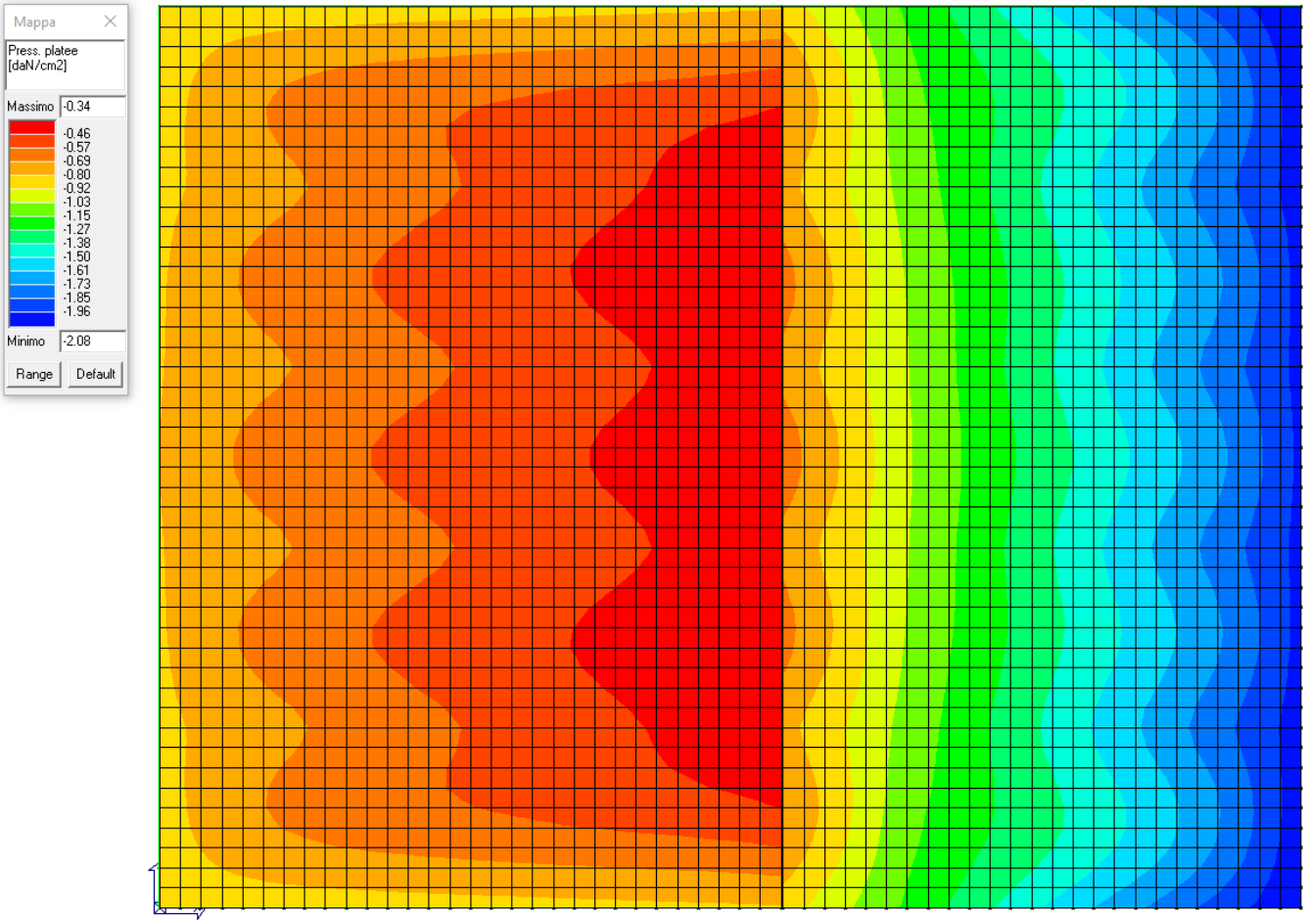
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
	-1.49	-1.57	-1.35	-1.45	-1.48	-1.58	-1.31	-1.58	-1.35	-1.62	-1.31
	-1.58	-1.35	-1.62	-1.28	-1.61	-1.32	-1.65	-1.28	-1.61	-1.32	-1.65
	-0.66	-0.67	-0.69	-0.69	-1.46	-0.66	-0.67	-0.68	-0.69	-0.67	-0.68
	-0.69	-0.66	-0.67	-0.68	-0.69	-1.29	-0.85	-1.45	-0.69	-1.45	
7	-0.86	-0.87	-0.90	-0.91	-0.66	-0.67	-0.70	-0.71	-1.67	-1.06	-1.86
	-0.86	-1.90	-1.25	-1.42	-1.52	-1.69	-1.23	-1.44	-1.50	-1.71	-1.26
	-1.44	-1.51	-1.68	-1.24	-1.46	-1.49	-1.70	-1.15	-1.72	-1.23	-1.80
	-1.15	-1.72	-1.22	-1.80	-1.08	-1.79	-1.16	-1.87	-1.09	-1.79	-1.16
	-1.86	-1.36	-1.44	-1.48	-1.57	-1.35	-1.45	-1.47	-1.58	-1.36	-1.45
	-1.48	-1.56	-1.35	-1.46	-1.47	-1.57	-1.31	-1.58	-1.34	-1.62	-1.31
	-1.59	-1.34	-1.62	-1.28	-1.61	-1.31	-1.65	-1.28	-1.62	-1.31	-1.65
	-0.66	-0.67	-0.69	-0.69	-1.46	-0.66	-0.67	-0.68	-0.69	-0.67	-0.68
	-0.69	-0.66	-0.67	-0.68	-0.69	-1.30	-0.84	-1.45	-0.69	-1.45	
8	-0.86	-0.87	-0.90	-0.90	-0.66	-0.67	-0.70	-0.70	-1.68	-1.04	-1.86
	-0.86	-1.90	-1.27	-1.44	-1.50	-1.67	-1.25	-1.46	-1.48	-1.69	-1.28
	-1.45	-1.49	-1.66	-1.26	-1.47	-1.47	-1.68	-1.15	-1.74	-1.21	-1.81
	-1.15	-1.74	-1.21	-1.80	-1.08	-1.80	-1.15	-1.87	-1.09	-1.80	-1.15
	-1.86	-1.36	-1.45	-1.47	-1.56	-1.36	-1.46	-1.47	-1.57	-1.37	-1.46
	-1.47	-1.56	-1.36	-1.46	-1.46	-1.56	-1.31	-1.59	-1.34	-1.62	-1.31
	-1.59	-1.34	-1.62	-1.28	-1.62	-1.31	-1.65	-1.28	-1.62	-1.31	-1.65
	-0.66	-0.67	-0.69	-0.69	-1.46	-0.66	-0.67	-0.68	-0.69	-0.67	-0.68
	-0.69	-0.66	-0.67	-0.68	-0.68	-1.32	-0.82	-1.45	-0.68	-1.45	
9	-0.86	-0.86	-0.89	-0.90	-0.66	-0.67	-0.70	-0.70	-1.70	-1.02	-1.86
	-0.86	-1.90	-1.28	-1.46	-1.48	-1.66	-1.26	-1.48	-1.46	-1.68	-1.29
	-1.47	-1.47	-1.65	-1.27	-1.49	-1.45	-1.67	-1.14	-1.75	-1.20	-1.81
	-1.14	-1.76	-1.20	-1.81	-1.08	-1.81	-1.14	-1.87	-1.09	-1.81	-1.14
	-1.87	-1.37	-1.46	-1.46	-1.55	-1.36	-1.47	-1.46	-1.56	-1.37	-1.46
	-1.46	-1.55	-1.37	-1.47	-1.45	-1.56	-1.30	-1.60	-1.33	-1.63	-1.30
	-1.60	-1.33	-1.63	-1.28	-1.63	-1.30	-1.66	-1.28	-1.63	-1.30	-1.65
	-0.66	-0.66	-0.68	-0.69	-1.46	-0.66	-0.66	-0.68	-0.69	-0.66	-0.68
	-0.68	-0.66	-0.66	-0.68	-0.68	-1.33	-0.81	-1.45	-0.68	-1.45	
10	-0.86	-0.86	-0.89	-0.90	-0.66	-0.66	-0.70	-0.70	-1.71	-1.00	-1.86
	-0.86	-1.90	-1.29	-1.48	-1.46	-1.65	-1.27	-1.50	-1.44	-1.66	-1.30
	-1.49	-1.45	-1.64	-1.28	-1.50	-1.43	-1.66	-1.14	-1.77	-1.19	-1.82
	-1.14	-1.77	-1.19	-1.82	-1.08	-1.82	-1.13	-1.87	-1.08	-1.83	-1.13
	-1.87	-1.38	-1.47	-1.46	-1.55	-1.37	-1.48	-1.45	-1.55	-1.38	-1.47
	-1.45	-1.54	-1.37	-1.48	-1.45	-1.55	-1.30	-1.61	-1.33	-1.63	-1.30
	-1.61	-1.32	-1.63	-1.28	-1.63	-1.30	-1.66	-1.28	-1.63	-1.30	-1.66
	-0.66	-0.66	-0.68	-0.69	-1.46	-0.66	-0.66	-0.68	-0.68	-0.66	-0.68
	-0.68	-0.66	-0.66	-0.68	-0.68	-1.34	-0.79	-1.45	-0.68	-1.45	
11	-0.85	-0.86	-0.89	-0.90	-0.66	-0.66	-0.69	-0.70	-1.73	-0.98	-1.86
	-0.85	-1.90	-1.30	-1.50	-1.44	-1.64	-1.28	-1.51	-1.42	-1.65	-1.30
	-1.50	-1.44	-1.63	-1.29	-1.52	-1.42	-1.65	-1.13	-1.79	-1.17	-1.83
	-1.13	-1.79	-1.17	-1.83	-1.08	-1.84	-1.12	-1.88	-1.08	-1.84	-1.12
	-1.88	-1.38	-1.48	-1.45	-1.54	-1.37	-1.48	-1.44	-1.55	-1.38	-1.48
	-1.45	-1.54	-1.37	-1.48	-1.44	-1.55	-1.30	-1.61	-1.32	-1.63	-1.30
	-1.62	-1.32	-1.63	-1.27	-1.64	-1.29	-1.66	-1.27	-1.64	-1.29	-1.66
	-0.66	-0.66	-0.68	-0.69	-1.46	-0.66	-0.66	-0.68	-0.68	-0.66	-0.68
	-0.68	-0.66	-0.66	-0.68	-0.68	-1.35	-0.78	-1.45	-0.68	-1.45	
12	-0.85	-0.86	-0.89	-0.90	-0.65	-0.66	-0.69	-0.70	-1.74	-0.97	-1.86
	-0.85	-1.90	-1.31	-1.51	-1.42	-1.63	-1.29	-1.52	-1.41	-1.64	-1.31
	-1.51	-1.42	-1.62	-1.29	-1.53	-1.41	-1.64	-1.12	-1.80	-1.16	-1.84
	-1.13	-1.80	-1.16	-1.84	-1.07	-1.85	-1.11	-1.89	-1.07	-1.85	-1.11
	-1.89	-1.38	-1.48	-1.44	-1.54	-1.38	-1.49	-1.43	-1.54	-1.38	-1.48
	-1.44	-1.54	-1.38	-1.49	-1.43	-1.54	-1.30	-1.62	-1.31	-1.64	-1.30
	-1.62	-1.31	-1.64	-1.27	-1.65	-1.29	-1.66	-1.27	-1.65	-1.29	-1.66
	-0.65	-0.66	-0.68	-0.68	-1.46	-0.65	-0.66	-0.68	-0.68	-0.66	-0.68
	-0.68	-0.65	-0.66	-0.68	-0.68	-1.37	-0.77	-1.45	-0.68	-1.45	
13	-0.85	-0.85	-0.89	-0.89	-0.65	-0.66	-0.69	-0.70	-1.76	-0.95	-1.86
	-0.85	-1.90	-1.31	-1.52	-1.41	-1.62	-1.29	-1.53	-1.40	-1.64	-1.31
	-1.52	-1.41	-1.62	-1.30	-1.53	-1.40	-1.64	-1.12	-1.82	-1.15	-1.85
	-1.12	-1.82	-1.15	-1.85	-1.07	-1.86	-1.10	-1.90	-1.07	-1.86	-1.10
	-1.89	-1.38	-1.49	-1.43	-1.54	-1.38	-1.49	-1.43	-1.54	-1.38	-1.49
	-1.43	-1.53	-1.38	-1.49	-1.43	-1.54	-1.29	-1.63	-1.31	-1.64	-1.29
	-1.63	-1.31	-1.64	-1.27	-1.65	-1.28	-1.67	-1.27	-1.65	-1.28	-1.67
	-0.65	-0.66	-0.68	-0.68	-1.46	-0.65	-0.66	-0.68	-0.68	-0.66	-0.67
	-0.68	-0.65	-0.66	-0.67	-0.68	-1.38	-0.75	-1.45	-0.68	-1.45	
14	-0.85	-0.85	-0.89	-0.89	-0.65	-0.66	-0.69	-0.70	-1.77	-0.93	-1.86
	-0.85	-1.90	-1.30	-1.52	-1.41	-1.62	-1.29	-1.54	-1.39	-1.64	-1.31
	-1.52	-1.40	-1.62	-1.29	-1.54	-1.39	-1.64	-1.10	-1.83	-1.14	-1.86
	-1.11	-1.83	-1.13	-1.86	-1.06	-1.88	-1.09	-1.91	-1.06	-1.88	-1.09
	-1.91	-1.38	-1.49	-1.43	-1.54	-1.38	-1.49	-1.42	-1.54	-1.38	-1.49
	-1.43	-1.54	-1.38	-1.49	-1.42	-1.54	-1.29	-1.64	-1.30	-1.65	-1.29
	-1.64	-1.30	-1.65	-1.26	-1.66	-1.28	-1.67	-1.26	-1.66	-1.28	-1.67

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
	-0.65	-0.65	-0.68	-0.68	-1.46	-0.65	-0.65	-0.68	-0.68	-0.65	-0.67
	-0.68	-0.65	-0.65	-0.67	-0.68	-1.39	-0.74	-1.45	-0.68	-1.45	
15	-0.85	-0.85	-0.89	-0.89	-0.65	-0.65	-0.69	-0.70	-1.79	-0.91	-1.86
	-0.85	-1.90	-1.40	-1.63	-1.30	-1.52	-1.39	-1.64	-1.28	-1.54	-1.40
	-1.62	-1.30	-1.53	-1.39	-1.64	-1.29	-1.54	-1.12	-1.87	-1.09	-1.84
	-1.12	-1.87	-1.09	-1.84	-1.08	-1.92	-1.05	-1.89	-1.08	-1.92	-1.05
	-1.89	-1.43	-1.54	-1.38	-1.49	-1.42	-1.54	-1.37	-1.49	-1.43	-1.54
	-1.38	-1.49	-1.42	-1.54	-1.37	-1.50	-1.29	-1.66	-1.28	-1.64	-1.29
	-1.66	-1.28	-1.64	-1.27	-1.68	-1.26	-1.66	-1.27	-1.68	-1.26	-1.66
	-0.65	-0.65	-0.68	-0.68	-1.46	-0.65	-0.65	-0.68	-0.68	-0.65	-0.67
	-0.67	-0.65	-0.65	-0.67	-0.67	-1.40	-0.73	-1.45	-0.67	-1.45	
16	-0.84	-0.85	-0.89	-0.89	-0.65	-0.65	-0.69	-0.69	-1.80	-0.90	-1.86
	-0.84	-1.90	-1.41	-1.64	-1.28	-1.51	-1.40	-1.66	-1.27	-1.53	-1.40
	-1.64	-1.29	-1.52	-1.39	-1.65	-1.27	-1.53	-1.12	-1.89	-1.08	-1.85
	-1.11	-1.89	-1.08	-1.85	-1.07	-1.93	-1.03	-1.89	-1.07	-1.93	-1.04
	-1.90	-1.43	-1.54	-1.37	-1.48	-1.43	-1.55	-1.36	-1.49	-1.43	-1.54
	-1.37	-1.49	-1.42	-1.55	-1.37	-1.49	-1.29	-1.66	-1.27	-1.65	-1.29
	-1.66	-1.27	-1.65	-1.27	-1.68	-1.25	-1.67	-1.27	-1.68	-1.25	-1.67
	-0.65	-0.65	-0.68	-0.68	-1.46	-0.65	-0.65	-0.67	-0.68	-0.65	-0.67
	-0.67	-0.65	-0.65	-0.67	-0.67	-1.41	-0.72	-1.45	-0.67	-1.45	
17	-0.84	-0.84	-0.88	-0.89	-0.65	-0.65	-0.69	-0.69	-1.82	-0.88	-1.86
	-0.84	-1.90	-1.42	-1.66	-1.26	-1.50	-1.41	-1.67	-1.25	-1.51	-1.41
	-1.65	-1.27	-1.51	-1.40	-1.66	-1.26	-1.52	-1.11	-1.91	-1.06	-1.86
	-1.10	-1.91	-1.06	-1.86	-1.07	-1.95	-1.02	-1.90	-1.06	-1.95	-1.02
	-1.90	-1.44	-1.55	-1.36	-1.48	-1.43	-1.56	-1.36	-1.48	-1.43	-1.55
	-1.37	-1.48	-1.43	-1.55	-1.36	-1.49	-1.29	-1.67	-1.26	-1.65	-1.28
	-1.67	-1.27	-1.65	-1.27	-1.69	-1.24	-1.67	-1.27	-1.69	-1.25	-1.67
	-0.65	-0.65	-0.68	-0.68	-1.46	-0.65	-0.65	-0.67	-0.67	-0.65	-0.67
	-0.67	-0.65	-0.65	-0.67	-0.67	-1.42	-0.70	-1.45	-0.67	-1.45	
18	-0.84	-0.84	-0.88	-0.88	-0.65	-0.65	-0.69	-0.69	-1.83	-0.87	-1.86
	-0.84	-1.90	-1.43	-1.68	-1.24	-1.49	-1.42	-1.69	-1.23	-1.50	-1.42
	-1.67	-1.25	-1.50	-1.41	-1.68	-1.24	-1.51	-1.10	-1.93	-1.04	-1.87
	-1.10	-1.92	-1.05	-1.87	-1.06	-1.97	-1.00	-1.91	-1.06	-1.96	-1.01
	-1.91	-1.44	-1.56	-1.35	-1.47	-1.43	-1.57	-1.35	-1.48	-1.43	-1.55
	-1.36	-1.48	-1.43	-1.56	-1.35	-1.48	-1.28	-1.68	-1.26	-1.65	-1.28
	-1.68	-1.26	-1.66	-1.26	-1.70	-1.24	-1.67	-1.26	-1.70	-1.24	-1.67
	-0.65	-0.65	-0.67	-0.68	-1.46	-0.65	-0.65	-0.67	-0.67	-0.65	-0.67
	-0.67	-0.65	-0.65	-0.67	-0.67	-1.43	-0.69	-1.45	-0.67	-1.45	
19	-0.84	-0.84	-0.88	-0.88	-0.64	-0.64	-0.69	-0.69	-1.84	-0.85	-1.85
	-0.84	-1.90	-1.44	-1.70	-1.22	-1.47	-1.43	-1.71	-1.21	-1.49	-1.43
	-1.68	-1.23	-1.49	-1.42	-1.69	-1.22	-1.50	-1.09	-1.94	-1.03	-1.88
	-1.09	-1.94	-1.03	-1.88	-1.05	-1.98	-0.99	-1.92	-1.05	-1.98	-0.99
	-1.92	-1.45	-1.57	-1.34	-1.46	-1.44	-1.57	-1.33	-1.47	-1.44	-1.56
	-1.35	-1.47	-1.43	-1.57	-1.34	-1.48	-1.28	-1.69	-1.25	-1.66	-1.28
	-1.69	-1.25	-1.66	-1.26	-1.71	-1.23	-1.68	-1.26	-1.71	-1.23	-1.68
	-0.64	-0.64	-0.67	-0.67	-1.46	-0.64	-0.64	-0.67	-0.67	-0.64	-0.67
	-0.67	-0.64	-0.64	-0.67	-0.67	-1.44	-0.68	-1.45	-0.67	-1.45	
20	-0.83	-0.84	-0.88	-0.88	-0.64	-0.64	-0.69	-0.69	-1.85	-0.83	-1.85
	-0.83	-1.90	-1.45	-1.72	-1.20	-1.46	-1.44	-1.73	-1.18	-1.47	-1.44
	-1.70	-1.21	-1.48	-1.42	-1.71	-1.20	-1.49	-1.08	-1.96	-1.01	-1.89
	-1.08	-1.96	-1.01	-1.89	-1.05	-2.00	-0.97	-1.92	-1.04	-2.00	-0.97
	-1.93	-1.45	-1.58	-1.33	-1.46	-1.44	-1.58	-1.32	-1.46	-1.44	-1.57
	-1.34	-1.46	-1.44	-1.57	-1.33	-1.47	-1.27	-1.70	-1.24	-1.66	-1.27
	-1.70	-1.24	-1.66	-1.26	-1.72	-1.22	-1.68	-1.25	-1.71	-1.22	-1.68
	-0.64	-0.64	-0.67	-0.67	-1.46	-0.64	-0.64	-0.67	-0.67	-0.64	-0.67
	-0.67	-0.64	-0.64	-0.67	-0.67	-1.45	-0.67	-1.45	-0.67	-1.45	
....											
2622	-0.88	-0.90	-0.91	-0.92	-0.68	-0.69	-0.71	-0.72	-1.58	-1.20	-0.70
	-2.08	-1.93	-1.97	-1.75	-1.26	-1.04	-1.95	-1.77	-1.24	-1.06	-2.02
	-1.80	-1.21	-0.99	-2.00	-1.82	-1.19	-1.01	-1.97	-1.23	-1.76	-1.01
	-1.98	-1.24	-1.74	-1.00	-1.90	-1.30	-1.68	-1.09	-1.91	-1.31	-1.67
	-1.07	-1.71	-1.61	-1.38	-1.27	-1.70	-1.62	-1.37	-1.28	-1.74	-1.63
	-1.35	-1.25	-1.73	-1.64	-1.34	-1.26	-1.71	-1.36	-1.61	-1.26	-1.72
	-1.36	-1.60	-1.25	-1.68	-1.39	-1.58	-1.29	-1.69	-1.40	-1.57	-1.28
	-0.68	-0.69	-0.70	-0.71	-1.48	-0.68	-0.69	-0.70	-0.70	-0.69	-0.69
	-0.70	-0.68	-0.69	-0.69	-0.70	-1.24	-0.94	-0.56	-1.62	-1.48	

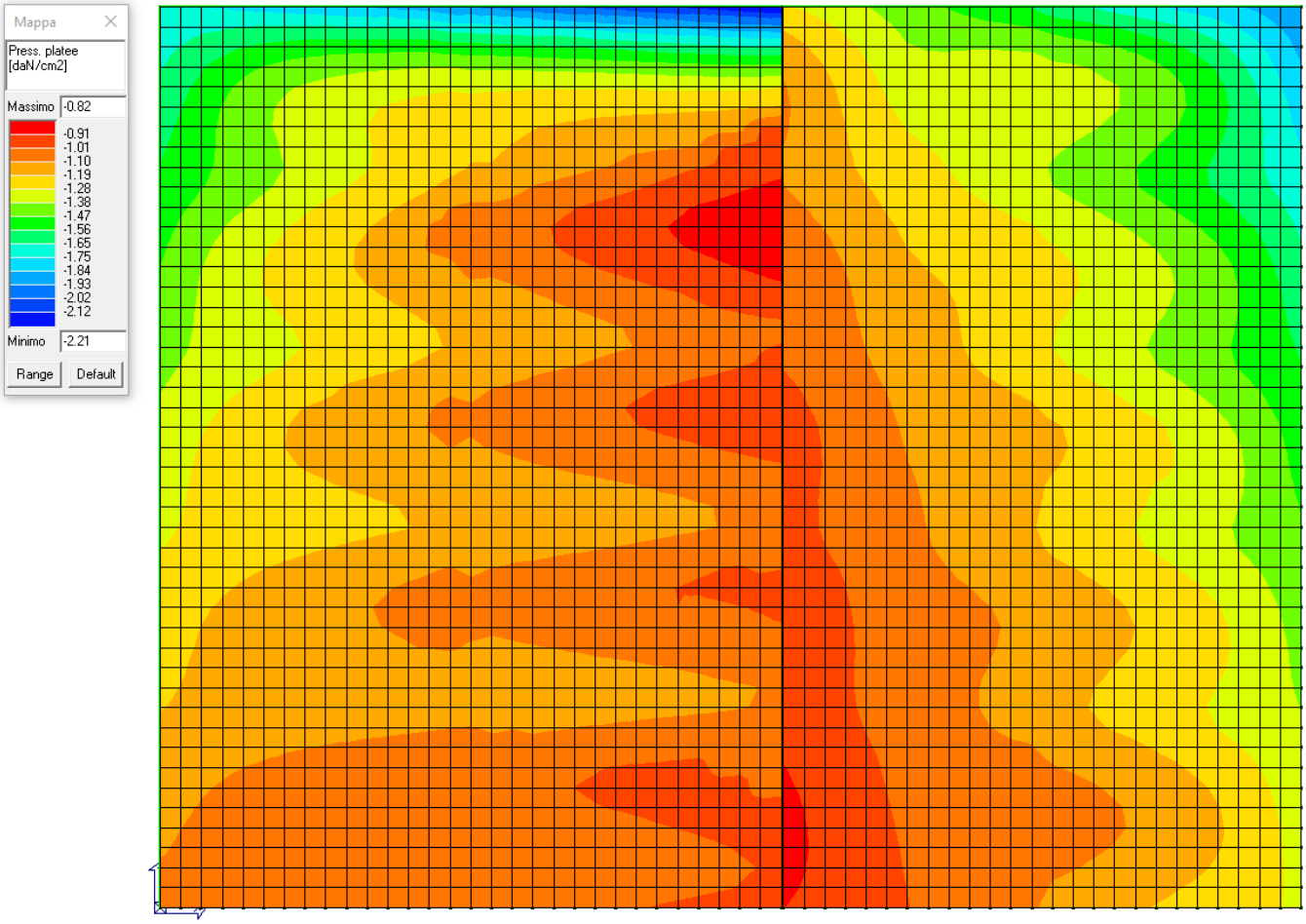
Min/Max
-2.21
-0.26

PRESSIONE PLATEA

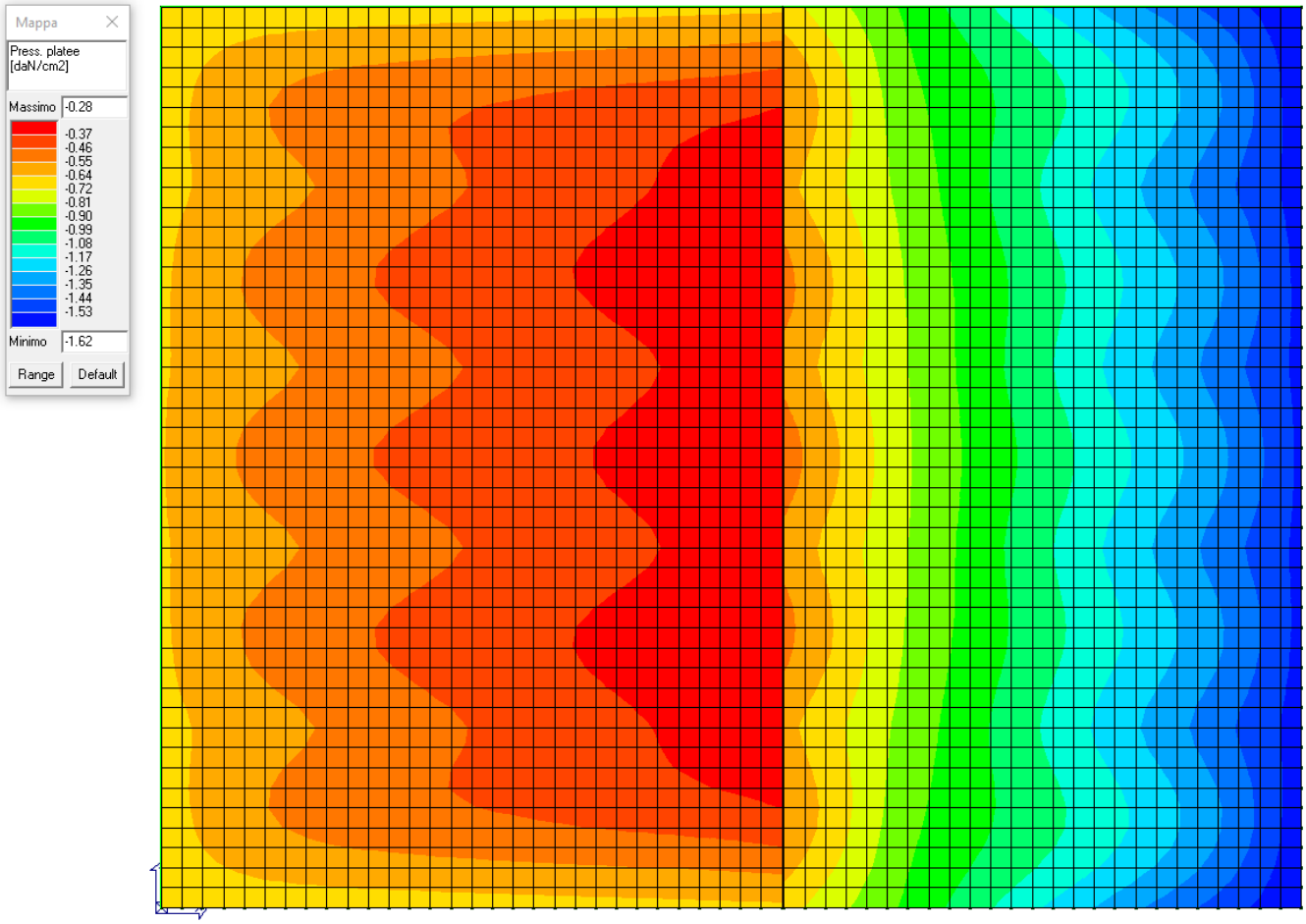
Pressione massima combinazioni SLU STR A1 (CMB 12)



Pressione massima combinazioni SLV sismiche (CMB 42)



Pressione massima combinazioni SLE (rara) (CMB 97)



3.10.4 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

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

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

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

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

La progettazione degli elementi strutturali con proprietà fondazione è effettuata (per travi e platee) incrementando le sollecitazioni delle combinazioni con sisma del fattore: γrd= 1.1 in CDB e γrd=1.3 in CDA per pali, plinti, travi e platee.

In particolare i simboli utilizzati assumono il seguente significato:

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

		piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	**Af sec+**	valori analoghi a quelli soprariportati ma relativi alla armatura secondaria
N	**M**	azioni membranali e flessionali (in direzione dell'armatura principale e secondaria) estratte, poiché rappresentative, tra quelle utilizzate per il progetto e la verifica

TABELLA VERIFICHE ELEMENTI GUSCIO IN C.A.

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok 1	0.08	0.1	3.63e-02	22.6	22.6	22.6	22.6	-169.0	-307.4	162.8	-3756.4	-1934.3	-3373.1
1	ok 2	0.08	0.3	2.30e-02	22.6	22.6	22.6	22.6	-81.5	-91.7	43.3	-2340.7	-3223.9	-9864.1
1	ok 3	0.08	0.3	1.22e-02	22.6	22.6	22.6	22.6	-112.0	-57.5	-4.1	-1498.4	-1.245e+04	-3949.9
1	ok 4	0.08	0.3	1.16e-02	22.6	22.6	22.6	22.6	-129.6	-49.8	-11.3	-2060.7	-1.630e+04	-3277.8
1	ok 5	0.08	0.4	1.27e-02	22.6	22.6	22.6	22.6	-142.8	-43.2	-16.0	-2560.6	-1.856e+04	-2480.4
1	ok 23	0.08	1.0	3.64e-03	22.6	22.6	23.4	25.7	102.9	93.7	30.6	-9452.3	-4.708e+04	1654.5
1	ok 24	0.08	1.0	3.17e-03	22.7	23.0	23.7	25.7	91.5	91.6	-52.6	-9564.1	-4.762e+04	1790.7
1	ok 25	0.08	1.0	2.72e-03	22.7	23.0	23.9	25.6	-0.4	90.1	-44.3	-9661.0	-4.806e+04	1621.6
1	ok 26	0.08	1.0	2.84e-03	22.7	22.8	24.0	25.5	-5.7	87.3	-34.9	-9754.2	-4.842e+04	1442.4
1	ok 27	0.08	1.0	3.49e-03	22.7	22.8	24.1	25.3	-14.0	81.5	-36.5	-9845.8	-4.874e+04	1241.1
1	ok 28	0.08	1.0	5.08e-03	22.7	22.9	24.0	25.1	-30.2	68.4	-38.2	-9900.0	-4.896e+04	1005.8
1	ok 29	0.08	1.0	7.62e-03	22.6	23.0	23.5	24.7	-60.5	46.3	-40.0	-9588.7	-4.866e+04	698.5
1	ok 30	0.08	1.0	1.30e-02	22.6	23.4	22.6	24.2	-95.8	39.2	-53.0	-8147.1	-4.631e+04	682.7
1	ok 31	0.08	1.0	3.58e-03	23.0	22.9	27.8	22.9	-3.9	597.9	-147.7	-1784.7	-3.993e+04	1489.9
1	ok 58	0.08	0.3	3.40e-02	22.6	22.6	22.6	22.6	-145.8	-350.8	-31.6	-1.149e+04	-1695.9	-6986.8
1	ok 59	0.08	0.4	1.41e-02	22.6	22.6	22.6	22.6	-95.7	-65.8	69.2	-2528.1	4127.3	-2.014e+04
1	ok 60	0.08	0.5	9.41e-03	22.6	22.6	22.6	22.6	-14.5	42.3	75.3	3976.2	8312.6	-2.022e+04
1	ok 61	0.08	0.6	1.02e-02	22.6	22.6	22.6	22.6	20.9	151.6	73.1	5226.9	1.466e+04	-1.796e+04
1	ok 62	0.08	0.7	1.07e-02	22.6	22.6	22.6	22.6	58.0	257.3	82.2	6368.1	2.007e+04	-1.579e+04
1	ok 80	0.09	1.0	3.20e-03	22.6	23.3	22.6	30.6	61.1	367.1	22.0	1.075e+04	5.347e+04	-3067.9
1	ok 81	0.09	1.0	2.74e-03	22.6	23.3	22.6	30.6	73.2	370.3	96.6	1.071e+04	5.338e+04	-3259.7
1	ok 82	0.09	1.0	2.53e-03	22.6	23.4	22.6	30.5	67.3	369.4	81.2	1.063e+04	5.318e+04	-3183.9
1	ok 83	0.09	1.0	2.65e-03	22.6	23.3	22.6	30.4	125.5	368.3	64.8	1.047e+04	5.288e+04	-3185.9
1	ok 84	0.09	1.0	2.87e-03	22.6	23.3	22.6	30.2	116.2	367.5	58.4	1.019e+04	5.246e+04	-3336.1
1	ok 85	0.09	1.0	3.33e-03	22.6	23.5	22.6	30.0	106.7	369.0	50.0	9621.7	5.189e+04	-3778.0
1	ok 86	0.09	1.0	4.28e-03	22.6	24.1	22.6	29.7	93.3	375.0	36.5	8412.2	5.114e+04	-4734.6
1	ok 87	0.09	1.0	4.29e-03	22.6	25.3	22.6	30.4	41.3	392.0	21.7	5383.9	5.009e+04	-6784.6
1	ok 88	0.08	1.0	4.88e-03	22.6	23.2	22.6	27.5	-37.3	207.0	70.0	-75.0	5.078e+04	-5550.5
1	ok 115	0.08	0.4	2.89e-02	22.6	22.6	22.6	22.6	-84.1	-304.5	-24.7	-1.870e+04	-942.6	-6212.4
1	ok 116	0.08	0.4	1.46e-02	22.6	22.6	22.6	22.6	-27.6	-114.9	22.0	-2919.8	5969.6	-1.586e+04
1	ok 117	0.08	0.5	8.80e-03	22.6	22.6	22.6	22.6	-18.7	1.6	-23.6	6682.6	1.426e+04	-1.369e+04
1	ok 118	0.08	0.6	9.10e-03	22.6	22.6	22.6	22.6	1.0	93.4	-8.0	9633.5	2.100e+04	-1.220e+04
1	ok 119	0.08	0.7	9.35e-03	22.6	22.6	22.6	22.6	40.8	207.2	38.3	1.077e+04	2.684e+04	-1.070e+04
1	ok 137	0.09	1.0	2.39e-03	22.6	23.1	22.6	31.2	43.7	337.5	12.6	1.130e+04	5.539e+04	-4105.4
1	ok 138	0.09	1.0	2.33e-03	22.6	23.1	22.6	31.2	47.8	338.1	36.0	1.124e+04	5.535e+04	-4074.4
1	ok 139	0.09	1.0	2.40e-03	22.6	23.2	22.6	31.1	43.8	336.8	26.7	1.111e+04	5.522e+04	-4032.2
1	ok 140	0.09	1.0	2.54e-03	22.6	23.2	22.6	31.0	39.8	335.8	16.1	1.086e+04	5.499e+04	-4052.0
1	ok 141	0.09	1.0	2.78e-03	22.6	23.3	22.6	30.9	36.1	335.8	11.7	1.036e+04	5.467e+04	-4187.6
1	ok 142	0.09	1.0	3.13e-03	22.6	23.4	22.6	30.7	32.2	338.2	7.1	9416.3	5.430e+04	-4527.8
1	ok 143	0.09	1.0	3.38e-03	22.6	23.6	22.6	30.8	25.8	343.5	3.8	7595.9	5.404e+04	-5153.0
1	ok 144	0.09	1.0	2.63e-03	22.6	23.6	22.6	31.0	9.5	343.3	15.4	4495.7	5.459e+04	-5911.2
1	ok 145	0.09	1.0	9.16e-04	22.6	23.1	22.6	29.6	-2.4	216.9	26.9	460.2	5.594e+04	-4396.2
1	ok 172	0.08	0.4	2.33e-02	22.6	22.6	22.6	22.6	-10.0	-234.7	54.3	-1.925e+04	-1129.2	-4864.7
1	ok 173	0.08	0.3	1.57e-02	22.6	22.6	22.6	22.6	150.2	-115.0	-30.4	5643.4	8065.0	-7701.5
1	ok 174	0.08	0.4	8.25e-03	22.6	22.6	22.6	22.6	13.8	-36.9	-34.9	8646.2	1.628e+04	-8273.2
1	ok 175	0.08	0.6	8.24e-03	22.6	22.6	22.6	22.6	9.1	50.1	-25.5	1.189e+04	2.347e+04	-7273.9
1	ok 176	0.08	0.7	8.31e-03	22.6	22.6	22.6	22.6	30.8	120.0	15.1	1.295e+04	2.933e+04	-6383.1
1	ok 194	0.09	1.0	2.87e-03	22.6	23.0	22.6	29.4	34.0	308.9	3.2	1.077e+04	5.247e+04	-3852.0
1	ok 195	0.09	1.0	2.38e-03	22.6	23.0	22.6	29.4	31.5	307.5	-1.9	1.069e+04	5.253e+04	-3855.8
1	ok 196	0.09	1.0	2.27e-03	22.6	23.0	22.6	29.4	35.3	307.8	17.7	1.055e+04	5.253e+04	-3854.4
1	ok 197	0.09	1.0	2.42e-03	22.6	23.1	22.6	29.4	32.0	307.0	12.0	1.025e+04	5.246e+04	-3919.5
1	ok 198	0.09	1.0	2.64e-03	22.6	23.1	22.6	29.3	28.3	307.2	9.2	9668.3	5.236e+04	-4045.6
1	ok 199	0.09	1.0	2.87e-03	22.6	23.1	22.6	29.3	23.7	308.4	10.9	8617.2	5.234e+04	-4241.0
1	ok 200	0.09	1.0	2.89e-03	22.6	23.2	22.6	29.5	16.7	308.4	15.2	6843.0	5.261e+04	-4413.1
1	ok 201	0.09	1.0	2.48e-03	22.6	23.1	22.6	29.9	7.7	303.5	22.0	4102.3	5.360e+04	-4366.9
1	ok 202	0.09	1.0	2.08e-03	22.6	22.7	22.6	29.1	1.4	203.6	21.8	671.5	5.441e+04	-2732.4
1	ok 229	0.08	0.4	1.96e-02	22.6	22.6	22.6	22.6	-69.2	-25.0	59.0	-2.203e+04	-2524.0	-382.8
1	ok 230	0.08	0.3	1.66e-02	22.6	22.6	22.6	22.6	188.3	-102.5	-18.2	6880.2	8496.9	-3686.5
1	ok 231	0.08	0.4	1.01e-02	22.6	22.6	22.6	22.6	46.2	-68.3	-28.2	9517.1	1.592e+04	-3396.0
1	ok 232	0.08	0.5	7.45e-03	22.6	22.6	22.6	22.6	40.4	10.2	-0.5	1.224e+04	2.252e+04	-2730.1
1	ok 233	0.08	0.6	7.42e-03	22.6	22.6	22.6	22.6	21.9	77.8	9.4	1.333e+04	2.776e+04	-767.4

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok 251	0.08	1.0	3.89e-03	22.6	22.9	22.6	25.2	24.3	280.7	2.2	9198.8	4.477e+04	-3641.9
1	ok 252	0.08	1.0	3.44e-03	22.6	23.0	22.6	25.3	23.0	279.2	-2.8	9127.3	4.494e+04	-3690.4
1	ok 253	0.08	1.0	3.01e-03	22.6	23.0	22.6	25.4	27.9	279.4	17.0	8992.1	4.507e+04	-3700.7
1	ok 254	0.08	1.0	2.60e-03	22.6	23.0	22.6	25.4	25.3	278.3	15.1	8689.0	4.517e+04	-3766.6
1	ok 255	0.08	1.0	2.53e-03	22.6	23.0	22.6	25.4	22.0	277.7	15.2	8129.4	4.529e+04	-3829.6
1	ok 256	0.08	1.0	2.72e-03	22.6	22.9	22.6	25.5	17.7	277.4	17.4	7181.8	4.551e+04	-3829.9
1	ok 257	0.08	1.0	2.80e-03	22.6	22.9	22.6	25.7	12.4	276.2	21.6	5691.6	4.597e+04	-3621.3
1	ok 258	0.08	1.0	2.70e-03	22.6	22.8	22.6	26.0	7.0	274.1	24.8	3475.2	4.685e+04	-3000.9
1	ok 259	0.08	1.0	2.68e-03	22.6	22.6	22.6	25.5	2.4	188.8	20.7	766.5	4.763e+04	-203.3
1	ok 286	0.08	0.4	2.11e-02	22.6	22.6	22.6	22.6	-64.2	-2.0	66.8	-2.106e+04	-2481.6	1181.0
1	ok 287	0.08	0.2	1.78e-02	22.6	22.6	22.6	22.6	199.3	-117.1	-25.1	7335.1	7763.5	2622.4
1	ok 288	0.08	0.3	1.15e-02	22.6	22.6	22.6	22.6	138.2	-87.6	-28.0	1.121e+04	1.344e+04	2463.9
1	ok 289	0.08	0.4	7.99e-03	22.6	22.6	22.6	22.6	25.6	-27.0	-11.5	1.171e+04	1.901e+04	2560.4
1	ok 290	0.08	0.5	6.61e-03	22.6	22.6	22.6	22.6	17.7	39.0	15.6	1.210e+04	2.290e+04	1991.2
1	ok 308	0.08	0.8	4.86e-03	22.6	22.6	22.6	22.6	13.9	251.7	1.1	6813.7	3.318e+04	-3434.8
1	ok 309	0.08	0.8	4.43e-03	22.6	22.6	22.6	22.6	14.1	249.9	-2.6	6760.0	3.346e+04	-3498.5
1	ok 310	0.08	0.8	4.01e-03	22.6	22.6	22.6	22.6	20.4	249.7	17.9	6653.6	3.372e+04	-3508.9
1	ok 311	0.08	0.8	3.59e-03	22.6	22.6	22.6	22.6	19.1	248.0	15.4	6398.8	3.398e+04	-3546.0
1	ok 312	0.08	0.8	3.15e-03	22.6	22.6	22.6	22.6	16.9	246.6	15.5	5936.7	3.427e+04	-3529.7
1	ok 313	0.08	0.8	2.65e-03	22.6	22.6	22.6	22.6	13.9	245.8	18.9	5199.4	3.464e+04	-3377.2
1	ok 314	0.08	0.8	2.84e-03	22.6	22.6	22.6	22.6	10.2	246.0	23.4	4118.8	3.511e+04	-2926.5
1	ok 315	0.08	0.8	2.98e-03	22.6	22.6	22.6	22.6	6.4	186.4	25.3	2598.2	3.584e+04	-1935.5
1	ok 316	0.08	0.8	3.14e-03	22.6	22.6	22.6	22.6	2.7	173.9	20.1	760.4	3.642e+04	30.5
1	ok 343	0.08	0.4	2.45e-02	22.6	22.6	22.6	22.6	-57.3	32.0	74.1	-1.765e+04	-2230.3	2531.4
1	ok 344	0.08	0.3	1.98e-02	22.6	22.6	22.6	22.6	158.7	-117.4	-1.9	6952.7	6339.6	5969.8
1	ok 345	0.08	0.3	1.27e-02	22.6	22.6	22.6	22.6	162.2	-79.6	8.8	9045.4	1.039e+04	5356.0
1	ok 346	0.08	0.4	8.34e-03	22.6	22.6	22.6	22.6	-62.6	12.1	-3.9	9403.5	1.340e+04	6330.8
1	ok 347	0.08	0.4	6.83e-03	22.6	22.6	22.6	22.6	-63.3	-1.0	-15.5	9676.5	1.603e+04	4872.1
1	ok 365	0.08	0.5	5.81e-03	22.6	22.6	22.6	22.6	3.3	221.9	-2.0	3799.3	1.849e+04	-3197.9
1	ok 366	0.08	0.5	5.39e-03	22.6	22.6	22.6	22.6	5.5	220.0	-12.4	3787.3	1.891e+04	-3251.7
1	ok 367	0.08	0.5	4.99e-03	22.6	22.6	22.6	22.6	13.3	219.8	8.8	3734.1	1.934e+04	-3251.7
1	ok 368	0.08	0.5	4.59e-03	22.6	22.6	22.6	22.6	13.8	218.3	11.1	3572.2	1.979e+04	-3245.0
1	ok 369	0.08	0.5	4.17e-03	22.6	22.6	22.6	22.6	13.5	193.5	13.4	3258.4	2.027e+04	-3157.9
1	ok 370	0.08	0.5	3.63e-03	22.6	22.6	22.6	22.6	12.0	185.3	16.4	2768.5	2.077e+04	-2923.9
1	ok 371	0.08	0.5	2.94e-03	22.6	22.6	22.6	22.6	9.1	176.5	23.1	2150.3	2.127e+04	-2394.3
1	ok 372	0.08	0.5	3.31e-03	22.6	22.6	22.6	22.6	5.4	168.2	27.0	1446.9	2.179e+04	-995.3
1	ok 373	0.08	0.5	3.64e-03	22.6	22.6	22.6	22.6	2.3	159.0	20.7	679.1	2.217e+04	597.6
1	ok 400	0.08	0.3	3.06e-02	22.6	22.6	22.6	22.6	-49.6	76.4	78.1	-1.232e+04	-2089.1	3391.8
1	ok 401	0.08	0.3	2.27e-02	22.6	22.6	22.6	22.6	102.0	-129.5	15.4	5346.7	3070.1	7980.9
1	ok 402	0.08	0.3	1.47e-02	22.6	22.6	22.6	22.6	-51.6	45.1	11.0	4450.5	3654.7	9580.2
1	ok 403	0.08	0.3	9.13e-03	22.6	22.6	22.6	22.6	-52.0	24.5	-6.3	5714.3	4736.7	7872.1
1	ok 404	0.08	0.2	7.30e-03	22.6	22.6	22.6	22.6	-53.6	6.4	-16.7	5441.8	5043.4	5872.6
1	ok 422	0.08	0.7	6.79e-03	22.6	22.6	22.6	22.6	59.1	302.2	19.5	5320.5	2.616e+04	-235.8
1	ok 423	0.08	0.7	6.39e-03	22.6	22.6	22.6	22.6	55.6	302.5	16.8	5343.8	2.634e+04	-202.9
1	ok 424	0.08	0.7	6.00e-03	22.6	22.6	22.6	22.6	51.1	303.5	14.4	5364.1	2.644e+04	-169.5
1	ok 425	0.08	0.7	5.62e-03	22.6	22.6	22.6	22.6	44.9	305.7	12.5	5374.8	2.647e+04	-133.9
1	ok 426	0.08	0.7	5.26e-03	22.6	22.6	22.6	22.6	37.1	309.9	10.8	5335.0	2.640e+04	-84.4
1	ok 427	0.08	0.7	4.85e-03	22.6	22.6	22.6	22.6	28.6	315.7	1.6	5073.4	2.620e+04	31.1
1	ok 428	0.08	0.7	4.09e-03	22.6	22.6	22.6	22.6	24.3	321.1	-22.9	4420.2	2.588e+04	307.5
1	ok 429	0.08	0.7	3.67e-03	22.6	22.6	22.6	22.6	3.3	308.9	-28.3	2215.3	2.596e+04	216.7
1	ok 430	0.08	0.6	4.35e-03	22.6	22.6	22.6	22.6	0.5	233.6	-31.9	840.0	2.665e+04	-233.5
1	ok 457	0.08	0.2	4.13e-02	22.6	22.6	22.6	22.6	-78.4	120.8	75.0	-6165.2	-2923.2	3217.3
1	ok 458	0.08	0.3	2.59e-02	22.6	22.6	22.6	22.6	22.6	-140.5	9.1	2677.7	-3870.1	7880.9
1	ok 459	0.08	0.3	1.69e-02	22.6	22.6	22.6	22.6	-41.0	64.9	8.3	883.6	-6947.7	8583.6
1	ok 460	0.08	0.3	1.18e-02	22.6	22.6	22.6	22.6	-38.3	-85.6	69.0	-259.8	-1.548e+04	3345.8
1	ok 461	0.08	0.4	9.32e-03	22.6	22.6	22.6	22.6	-61.4	-42.6	47.3	-1791.2	-2.061e+04	481.6
1	ok 479	0.08	0.8	8.68e-03	22.6	22.6	22.6	22.6	77.7	338.9	8.6	6437.2	3.180e+04	-104.0
1	ok 480	0.08	0.8	8.26e-03	22.6	22.6	22.6	22.6	74.7	340.1	7.3	6527.3	3.235e+04	-138.0
1	ok 481	0.08	0.8	7.85e-03	22.6	22.6	22.6	22.6	70.2	341.7	6.8	6610.4	3.283e+04	-172.6
1	ok 482	0.08	0.9	7.47e-03	22.6	22.6	22.6	22.6	63.9	344.5	7.4	6688.7	3.323e+04	-209.2
1	ok 483	0.08	0.9	7.13e-03	22.6	22.6	22.6	22.6	54.8	348.9	9.5	6756.8	3.354e+04	-241.4
1	ok 484	0.08	0.9	6.88e-03	22.6	22.6	22.6	22.6	44.6	357.2	12.3	6782.5	3.373e+04	-231.3
1	ok 485	0.08	0.9	6.63e-03	22.6	22.6	22.6	22.6	43.1	373.1	-21.5	6430.4	3.361e+04	-714.5
1	ok 486	0.08	0.9	4.48e-03	22.6	22.6	22.6	22.6	-4.4	376.9	-34.6	5039.4	3.280e+04	776.7
1	ok 487	0.08	0.7	5.50e-03	22.6	22.6	22.6	22.6	-22.1	153.5	-59.2	-154.7	3.181e+04	1348.0
1	ok 514	0.08	8.67e-02	6.15e-02	22.6	22.6	22.6	22.6	-69.8	-652.6	-179.0	-2431.0	-2481.9	-894.7
…														
1	ok 2596	0.08	1.0	3.58e-03	23.4	22.9	27.8	22.9	112.2	353.4	113.8	2063.1	3.664e+04	3621.5
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N x**	**N y**	**N xy**	**M x**	**M y**	**M xy**
Min									-169.02	-652.62	-181.63	-2.203e+04	-5.838e+04	-2.022e+04
Max		0.09	0.99	0.06	23.78	25.64	30.43	33.97	221.60	597.92	181.63	1.335e+04	5.839e+04	2.022e+04

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok 32	0.08	0.8	3.40e-04	22.6	22.6	22.6	22.6	82.5	716.3	168.7	1049.3	2.118e+04	2277.9
2	ok 33	0.08	0.4	1.37e-02	22.6	22.6	22.6	22.6	1.7	-156.1	12.0	-4067.9	-1.939e+04	2578.2
2	ok 34	0.08	0.3	5.77e-03	22.6	22.6	22.6	22.6	11.5	-56.5	27.2	-3207.1	-1.648e+04	2002.4
2	ok 35	0.08	0.3	5.83e-03	22.6	22.6	22.6	22.6	5.5	-45.6	37.8	-2360.5	-1.353e+04	2257.5
2	ok 36	0.08	0.2	1.28e-02	22.6	22.6	22.6	22.6	-5.6	-46.8	47.9	-1960.2	-9926.1	2511.1
2	ok 37	0.08	0.1	2.96e-02	22.6	22.6	22.6	22.6	-32.6	-87.8	54.9	-2722.2	-5821.5	2242.0
2	ok 38	0.08	8.77e-02	5.96e-02	22.6	22.6	22.6	22.6	-212.4	-161.7	9.6	-3690.5	-596.8	-2160.9
2	ok 39	0.08	0.2	2.80e-02	22.6	22.6	22.6	22.6	-279.2	-94.4	-87.5	-2773.9	-6435.6	-2798.6
2	ok 40	0.08	0.3	2.48e-02	22.6	22.6	22.6	22.6	-253.5	-49.0	-83.9	-1841.2	-1.093e+04	-3116.5
2	ok 41	0.08	0.4	2.29e-02	22.6	22.6	22.6	22.6	48.5	187.3	-22.9	2396.4	1.062e+04	-8676.4
2	ok 42	0.08	0.5	2.04e-02	22.6	22.6	22.6	22.6	112.4	265.2	-136.7	3582.6	1.550e+04	-7758.3
2	ok 53	0.08	0.4	1.33e-02	22.6	22.6	22.6	22.6	-151.3	-45.1	11.1	-2740.1	-1.971e+04	2685.2
2	ok 54	0.08	0.4	1.23e-02	22.6	22.6	22.6	22.6	-137.6	-52.6	6.9	-2209.0	-1.723e+04	3505.9
2	ok 55	0.08	0.3	1.11e-02	22.6	22.6	22.6	22.6	-119.6	-61.2	4.99e-02	-1611.0	-1.314e+04	4179.0
2	ok 56	0.08	0.2	1.95e-02	22.6	22.6	22.6	22.6	-82.9	-89.0	-24.7	-1082.4	-6533.7	7254.6
2	ok 57	0.08	0.1	3.39e-02	22.6	22.6	22.6	22.6	-171.5	-206.3	-144.9	-1534.1	-2812.1	2885.7
2	ok 89	0.08	0.7	1.62e-03	22.6	22.6	22.6	22.6	3.3	501.0	-36.4	-260.1	2.268e+04	2971.0
2	ok 90	0.08	0.6	6.66e-03	22.6	22.6	22.6	22.6	21.3	304.3	79.5	2154.5	1.870e+04	7504.5
2	ok 91	0.08	0.4	6.54e-03	22.6	22.6	22.6	22.6	34.7	239.6	-0.5	3135.3	1.393e+04	8531.0
2	ok 92	0.08	0.4	8.20e-03	22.6	22.6	22.6	22.6	7.7	148.4	1.9	2633.6	1.069e+04	9183.2
2	ok 93	0.08	0.3	1.62e-02	22.6	22.6	22.6	22.6	-18.8	70.1	10.3	-280.8	6845.6	9279.1
2	ok 94	0.08	0.2	2.51e-02	22.6	22.6	22.6	22.6	-28.0	-46.0	22.1	-4642.3	3077.8	7057.0
2	ok 95	0.08	0.3	2.72e-02	22.6	22.6	22.6	22.6	-57.7	-135.6	-75.1	-1.450e+04	-334.8	-2539.1
2	ok 96	0.08	0.2	2.92e-02	22.6	22.6	22.6	22.6	-65.8	-44.1	-105.2	-5864.2	3217.1	-1.063e+04
2	ok 97	0.08	0.4	2.56e-02	22.6	22.6	22.6	22.6	-2.3	86.3	-182.8	808.8	8924.1	-1.323e+04
2	ok 98	0.08	0.6	2.35e-02	22.6	22.6	22.6	22.6	36.2	179.4	-171.5	3864.7	1.501e+04	-1.315e+04
2	ok 99	0.08	0.7	2.18e-02	22.6	22.6	22.6	22.6	51.0	254.9	-79.7	5634.9	2.079e+04	-1.217e+04
2	ok 110	0.08	0.7	1.11e-02	22.6	22.6	22.6	22.6	100.2	228.7	-43.9	8396.5	2.355e+04	9709.3
2	ok 111	0.08	0.6	1.08e-02	22.6	22.6	22.6	22.6	45.8	152.4	-19.4	7369.7	1.807e+04	1.211e+04
2	ok 112	0.08	0.5	1.01e-02	22.6	22.6	22.6	22.6	-3.6	50.3	-10.2	5307.7	1.192e+04	1.431e+04
2	ok 113	0.08	0.4	1.07e-02	22.6	22.6	22.6	22.6	-45.6	-56.4	-68.7	-1196.1	4160.5	1.831e+04
2	ok 114	0.08	0.3	3.26e-02	22.6	22.6	22.6	22.6	-119.1	-354.6	-67.6	-1.095e+04	517.0	6632.6
2	ok 146	0.08	0.6	5.60e-03	22.6	22.6	22.6	22.6	-1.8	345.9	2.5	138.6	2.136e+04	2050.1
2	ok 147	0.08	0.5	6.26e-03	22.6	22.6	22.6	22.6	15.6	269.3	51.6	3258.4	1.967e+04	4132.8
2	ok 148	0.08	0.4	7.07e-03	22.6	22.6	22.6	22.6	19.8	143.7	55.8	4466.7	1.653e+04	4626.4
2	ok 149	0.08	0.3	7.96e-03	22.6	22.6	22.6	22.6	7.8	71.6	82.5	3680.5	1.276e+04	5053.1
2	ok 150	0.08	0.2	1.34e-02	22.6	22.6	22.6	22.6	-30.5	4.7	95.1	-1204.6	6876.9	6396.2
2	ok 151	0.08	0.2	1.71e-02	22.6	22.6	22.6	22.6	-27.7	-65.6	94.7	-1.024e+04	1757.9	4624.3
2	ok 152	0.08	0.5	2.30e-02	22.6	22.6	22.6	22.6	22.6	-102.7	-76.8	-2.462e+04	-2466.0	-1907.6
2	ok 153	0.08	0.3	2.40e-02	22.6	22.6	22.6	22.6	28.2	-50.8	-69.3	-1.028e+04	3663.0	-6641.5
2	ok 154	0.08	0.3	2.32e-02	22.6	22.6	22.6	22.6	22.3	12.9	-100.7	1130.0	1.121e+04	-7236.6
2	ok 155	0.08	0.5	2.22e-02	22.6	22.6	22.6	22.6	30.9	125.3	-121.9	5879.6	1.767e+04	-7273.0
2	ok 156	0.08	0.6	2.09e-02	22.6	22.6	22.6	22.6	39.4	209.8	-81.7	8183.9	2.348e+04	-6493.8
2	ok 167	0.08	0.7	9.60e-03	22.6	22.6	22.6	22.6	59.6	212.1	-29.2	1.227e+04	2.842e+04	6654.3
2	ok 168	0.08	0.6	9.57e-03	22.6	22.6	22.6	22.6	18.3	154.8	17.3	1.121e+04	2.274e+04	8490.9
2	ok 169	0.08	0.5	9.40e-03	22.6	22.6	22.6	22.6	-7.9	33.0	35.3	8196.5	1.582e+04	1.045e+04
2	ok 170	0.08	0.4	1.43e-02	22.6	22.6	22.6	22.6	123.7	-92.4	-5.0	4686.7	6024.4	1.256e+04
2	ok 171	0.08	0.4	2.76e-02	22.6	22.6	22.6	22.6	-36.9	-310.3	39.2	-1.585e+04	328.8	5401.4
2	ok 203	0.08	0.5	7.84e-03	22.6	22.6	22.6	22.6	-6.1	144.5	3.4	526.2	2.110e+04	1798.3
2	ok 204	0.08	0.5	7.14e-03	22.6	22.6	22.6	22.6	-7.5	116.9	41.9	3834.6	1.932e+04	3042.7
2	ok 205	0.08	0.4	7.29e-03	22.6	22.6	22.6	22.6	-9.9	80.0	63.2	5056.9	1.603e+04	3286.7
2	ok 206	0.08	0.3	7.99e-03	22.6	22.6	22.6	22.6	13.2	-68.5	38.3	5311.4	1.079e+04	3694.8
2	ok 207	0.08	0.2	1.20e-02	22.6	22.6	22.6	22.6	20.3	-69.0	39.5	1869.0	6747.1	3999.2
2	ok 208	0.08	0.3	1.43e-02	22.6	22.6	22.6	22.6	-6.7	-66.0	81.0	-1.386e+04	756.5	2367.1
2	ok 209	0.08	0.6	2.19e-02	22.6	22.6	22.6	22.6	16.4	-85.6	43.7	-3.094e+04	-4494.3	-733.7
2	ok 210	0.08	0.3	2.22e-02	22.6	22.6	22.6	22.6	36.1	-24.8	-75.1	-1.288e+04	2224.5	-2738.4
2	ok 211	0.08	0.3	2.13e-02	22.6	22.6	22.6	22.6	-206.3	-76.5	-65.0	3183.8	8177.2	-4677.2
2	ok 212	0.08	0.4	2.10e-02	22.6	22.6	22.6	22.6	37.1	90.5	-94.7	6566.5	1.753e+04	-2788.2
2	ok 213	0.08	0.5	2.03e-02	22.6	22.6	22.6	22.6	31.1	154.7	-65.2	9104.0	2.320e+04	-2355.9
2	ok 224	0.08	0.7	8.44e-03	22.6	22.6	22.6	22.6	32.1	168.1	-0.6	1.460e+04	3.036e+04	2487.0
2	ok 225	0.08	0.6	8.57e-03	22.6	22.6	22.6	22.6	11.8	82.4	40.5	1.363e+04	2.474e+04	3517.6
2	ok 226	0.08	0.4	8.70e-03	22.6	22.6	22.6	22.6	11.8	-7.1	53.3	1.025e+04	1.746e+04	4714.2
2	ok 227	0.08	0.3	1.65e-02	22.6	22.6	22.6	22.6	212.8	-57.7	116.6	8874.7	7021.8	6646.0
2	ok 228	0.08	0.4	2.26e-02	22.6	22.6	22.6	22.6	-76.5	-47.9	-53.9	-2.102e+04	-2339.3	2118.2
2	ok 260	0.08	0.4	9.54e-03	22.6	22.6	22.6	22.6	-2.8	112.7	1.1	457.3	1.997e+04	957.5
2	ok 261	0.08	0.4	8.04e-03	22.6	22.6	22.6	22.6	-5.9	95.6	39.6	3847.6	1.826e+04	915.3
2	ok 262	0.08	0.3	7.48e-03	22.6	22.6	22.6	22.6	7.4	-77.5	25.6	5873.6	1.521e+04	719.7
2	ok 263	0.08	0.2	8.43e-03	22.6	22.6	22.6	22.6	14.7	-72.4	32.0	5931.5	1.181e+04	927.2
2	ok 264	0.08	0.1	1.10e-02	22.6	22.6	22.6	22.6	20.9	-68.3	32.3	1892.9	7118.1	949.4
2	ok 265	0.08	0.3	1.33e-02	22.6	22.6	22.6	22.6	2.4	-65.4	68.3	-1.538e+04	-396.9	294.6
2	ok 266	0.08	0.7	2.20e-02	22.6	22.6	22.6	22.6	11.0	-85.3	79.4	-3.431e+04	-5162.4	-243.7
2	ok 267	0.08	0.3	2.14e-02	22.6	22.6	22.6	22.6	46.0	-53.3	-54.1	-1.130e+04	1787.7	1277.8
2	ok 268	0.08	0.2	2.00e-02	22.6	22.6	22.6	22.6	-200.4	-76.4	-66.3	3353.6	8698.1	-1232.2

M_G	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok 269	0.08	0.3	1.99e-02	22.6	22.6	22.6	22.6	-201.4	-72.7	-51.7	8892.1	1.419e+04	-1021.8
2	ok 270	0.08	0.4	1.97e-02	22.6	22.6	22.6	22.6	23.8	118.6	-55.7	8873.7	2.042e+04	1337.5
2	ok 281	0.08	0.6	8.04e-03	22.6	22.6	22.6	22.6	16.6	107.7	10.5	1.490e+04	2.841e+04	-1383.9
2	ok 282	0.08	0.5	8.66e-03	22.6	22.6	22.6	22.6	11.6	37.0	45.8	1.418e+04	2.341e+04	-1238.8
2	ok 283	0.08	0.3	1.07e-02	22.6	22.6	22.6	22.6	115.3	-81.7	55.9	1.354e+04	1.670e+04	-534.0
2	ok 284	0.08	0.3	1.76e-02	22.6	22.6	22.6	22.6	233.4	-36.6	122.4	1.006e+04	7036.5	2294.1
2	ok 285	0.08	0.4	2.10e-02	22.6	22.6	22.6	22.6	-71.9	-31.7	-61.5	-2.267e+04	-2582.7	572.7
2	ok 317	0.08	0.4	1.08e-02	22.6	22.6	22.6	22.6	2.6	-7.3	2.3	-567.1	1.841e+04	-1324.0
2	ok 318	0.08	0.4	8.68e-03	22.6	22.6	22.6	22.6	0.7	-12.1	2.3	2769.4	1.723e+04	-2477.6
2	ok 319	0.08	0.3	7.68e-03	22.6	22.6	22.6	22.6	5.0	-10.8	7.1	5107.2	1.443e+04	-2112.7
2	ok 320	0.08	0.2	9.06e-03	22.6	22.6	22.6	22.6	19.2	-75.4	23.4	5718.2	1.098e+04	-2031.9
2	ok 321	0.08	0.1	1.06e-02	22.6	22.6	22.6	22.6	26.0	-69.0	26.5	1810.6	6603.5	-2164.1
2	ok 322	0.08	0.3	1.33e-02	22.6	22.6	22.6	22.6	8.6	-63.8	58.2	-1.461e+04	-593.8	-2114.4
2	ok 323	0.08	0.7	2.28e-02	22.6	22.6	22.6	22.6	5.0	-67.5	118.2	-3.309e+04	-5031.7	357.9
2	ok 324	0.08	0.3	2.10e-02	22.6	22.6	22.6	22.6	-17.1	-28.2	88.4	-1.121e+04	1616.1	2204.8
2	ok 325	0.08	0.2	1.88e-02	22.6	22.6	22.6	22.6	-182.7	-72.6	-37.8	2990.8	8093.7	2383.5
2	ok 326	0.08	0.3	1.90e-02	22.6	22.6	22.6	22.6	-199.4	-74.2	-37.2	8607.7	1.319e+04	2210.0
2	ok 327	0.08	0.4	1.91e-02	22.6	22.6	22.6	22.6	-44.3	-20.8	56.8	9010.4	1.820e+04	2392.9
2	ok 338	0.08	0.5	9.20e-03	22.6	22.6	22.6	22.6	1.4	64.1	9.3	1.328e+04	2.298e+04	-4291.7
2	ok 339	0.08	0.4	9.27e-03	22.6	22.6	22.6	22.6	105.0	-23.5	16.8	1.413e+04	1.999e+04	-3742.6
2	ok 340	0.08	0.4	1.21e-02	22.6	22.6	22.6	22.6	113.7	-80.3	21.8	1.322e+04	1.532e+04	-4228.3
2	ok 341	0.08	0.3	1.87e-02	22.6	22.6	22.6	22.6	156.6	-129.7	51.2	8368.4	8426.4	-4927.1
2	ok 342	0.08	0.4	2.23e-02	22.6	22.6	22.6	22.6	-66.0	-7.2	-69.2	-2.163e+04	-2524.2	-1039.8
2	ok 374	0.08	0.3	1.14e-02	22.6	22.6	22.6	22.6	2.4	-15.9	2.5	-547.2	1.360e+04	-2446.4
2	ok 375	0.08	0.3	8.98e-03	22.6	22.6	22.6	22.6	1.1	-16.6	5.9	2066.7	1.274e+04	-4942.6
2	ok 376	0.08	0.3	8.42e-03	22.6	22.6	22.6	22.6	6.3	-11.5	13.6	3971.7	1.086e+04	-4319.4
2	ok 377	0.08	0.2	9.60e-03	22.6	22.6	22.6	22.6	29.6	-81.2	13.4	4704.1	8291.3	-4429.5
2	ok 378	0.08	0.2	1.08e-02	22.6	22.6	22.6	22.6	39.7	-72.8	20.0	1630.0	5138.0	-4753.6
2	ok 379	0.08	0.3	1.41e-02	22.6	22.6	22.6	22.6	18.6	-62.0	19.3	-1.193e+04	-691.4	-3164.7
2	ok 380	0.08	0.6	2.37e-02	22.6	22.6	22.6	22.6	-160.4	-80.6	-44.0	-2.690e+04	-4466.4	1401.3
2	ok 381	0.08	0.2	2.07e-02	22.6	22.6	22.6	22.6	-18.1	-3.0	105.5	-9276.7	1142.8	4765.2
2	ok 382	0.08	0.2	1.73e-02	22.6	22.6	22.6	22.6	-175.6	-72.4	-19.6	2630.8	6207.7	5316.1
2	ok 383	0.08	0.3	1.80e-02	22.6	22.6	22.6	22.6	-198.5	-75.8	-18.0	7190.0	9905.4	4846.3
2	ok 384	0.08	0.3	1.88e-02	22.6	22.6	22.6	22.6	-39.9	-16.5	66.7	7196.9	1.341e+04	4909.3
2	ok 395	0.08	0.4	1.07e-02	22.6	22.6	22.6	22.6	44.4	12.7	13.7	1.093e+04	1.595e+04	-4557.3
2	ok 396	0.08	0.4	9.77e-03	22.6	22.6	22.6	22.6	78.1	-32.5	21.1	1.154e+04	1.426e+04	-6218.5
2	ok 397	0.08	0.4	1.30e-02	22.6	22.6	22.6	22.6	86.1	-86.6	19.2	1.121e+04	1.133e+04	-7513.4
2	ok 398	0.08	0.3	2.03e-02	22.6	22.6	22.6	22.6	135.3	-124.9	23.5	7702.1	6782.4	-8442.1
2	ok 399	0.08	0.4	2.53e-02	22.6	22.6	22.6	22.6	-57.9	29.2	-76.4	-1.807e+04	-2251.1	-2442.3
2	ok 431	0.08	0.1	1.09e-02	22.6	22.6	22.6	22.6	1.6	-27.9	2.2	-434.9	4203.7	-3251.4
2	ok 432	0.08	0.2	8.96e-03	22.6	22.6	22.6	22.6	2.6	-24.3	7.7	700.7	3972.2	-6308.0
2	ok 433	0.08	0.2	9.07e-03	22.6	22.6	22.6	22.6	9.9	-15.2	18.7	1842.7	3720.4	-5499.8
2	ok 434	0.08	0.2	1.01e-02	22.6	22.6	22.6	22.6	44.3	-89.6	-1.7	2807.7	3026.6	-5630.9
2	ok 435	0.08	0.2	1.12e-02	22.6	22.6	22.6	22.6	62.4	-81.2	8.4	1107.0	2142.0	-6172.5
2	ok 436	0.08	0.2	1.54e-02	22.6	22.6	22.6	22.6	39.0	-62.9	19.1	-8163.6	-1244.1	-3626.7
2	ok 437	0.08	0.4	2.51e-02	22.6	22.6	22.6	22.6	-133.6	-68.2	-19.9	-1.911e+04	-3267.3	1892.1
2	ok 438	0.08	0.2	2.02e-02	22.6	22.6	22.6	22.6	-14.5	30.0	116.9	-6443.3	-155.2	6282.8
2	ok 439	0.08	0.2	1.57e-02	22.6	22.6	22.6	22.6	-164.7	-74.1	6.9	1795.5	2455.7	6899.4
2	ok 440	0.08	0.2	1.76e-02	22.6	22.6	22.6	22.6	-200.1	-77.9	9.5	4604.8	3643.6	6168.3
2	ok 441	0.08	0.2	1.93e-02	22.6	22.6	22.6	22.6	-35.4	-13.0	78.5	3986.9	4379.9	6152.6
2	ok 452	0.08	0.2	1.26e-02	22.6	22.6	22.6	22.6	-52.0	6.3	22.8	5636.7	5419.1	-5815.5
2	ok 453	0.08	0.3	1.14e-02	22.6	22.6	22.6	22.6	-50.6	24.7	11.3	5868.7	5035.3	-7857.1
2	ok 454	0.08	0.3	1.35e-02	22.6	22.6	22.6	22.6	70.1	-77.1	12.1	7005.5	4072.9	-9318.1
2	ok 455	0.08	0.3	2.26e-02	22.6	22.6	22.6	22.6	77.9	-130.0	12.9	5835.6	2993.2	-1.048e+04
2	ok 456	0.08	0.3	3.09e-02	22.6	22.6	22.6	22.6	-48.9	77.4	-80.4	-1.255e+04	-2092.8	-3348.4
2	ok 488	0.08	0.4	9.06e-03	22.6	22.6	22.6	22.6	-3.5	-15.4	-15.2	-1242.5	-1.849e+04	-3025.5
2	ok 489	0.08	0.4	9.16e-03	22.6	22.6	22.6	22.6	10.7	-84.3	-4.3	-3039.2	-1.725e+04	-3379.5
2	ok 490	0.08	0.3	9.72e-03	22.6	22.6	22.6	22.6	17.2	-75.3	39.3	-2614.4	-1.341e+04	-3577.0
2	ok 491	0.08	0.2	1.06e-02	22.6	22.6	22.6	22.6	57.7	-83.6	-12.3	-1555.5	-9128.6	-3918.6
2	ok 492	0.08	0.2	1.23e-02	22.6	22.6	22.6	22.6	57.3	-63.8	4.5	-1950.3	-5022.0	-4332.5
…														
2	ok 2622	0.08	0.1	3.39e-02	22.6	22.6	22.6	22.6	-129.3	-296.9	151.4	-3436.4	-1547.5	-3328.5
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N x**	**N y**	**N xy**	**M x**	**M y**	**M xy**
Min									-279.24	-617.25	-281.03	-3.472e+04	-4.901e+04	-1.831e+04
Max		0.08	0.98	0.06	22.62	22.62	22.62	22.62	237.44	716.29	276.34	1.490e+04	3.036e+04	1.831e+04

L’armatura della platea è costituita da una maglia base di 1ϕ24/20/20 inf/sup a cui si aggiungono ferri alternati con sezione variabile.

3.10.5 STATI LIMITE D' ESERCIZIO

LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

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

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

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

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

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

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

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

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

TABELLA STATI LIMITE D' ESERCIZIO

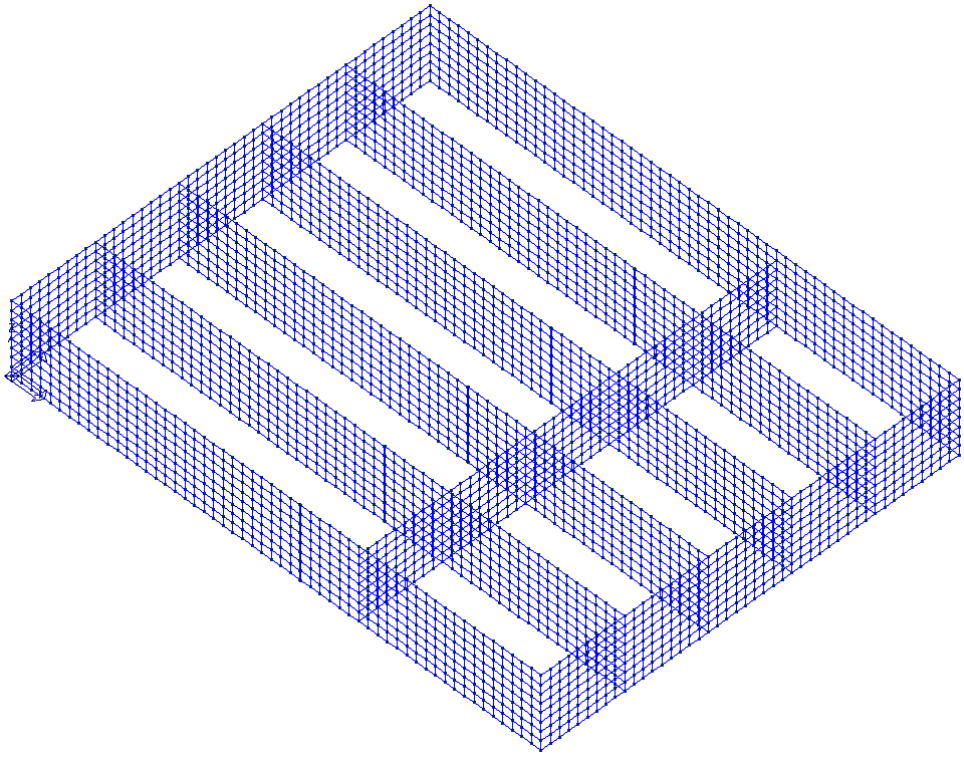
Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1	0.12	0.28	0.16	82,82,96	0.0	0.0	0.0	0,0,0
2	0.11	0.31	0.15	82,82,96	0.0	0.0	0.0	0,0,0
3	0.11	0.31	0.15	82,82,95	0.0	0.0	0.0	0,0,0
4	0.11	0.32	0.17	81,82,95	0.0	0.0	0.0	0,0,0
23	0.14	0.34	0.18	80,80,92	0.0	0.0	0.0	0,0,0
24	0.14	0.34	0.19	80,80,92	0.0	0.0	0.0	0,0,0
25	0.14	0.34	0.19	80,80,92	0.0	0.0	0.0	0,0,0
26	0.14	0.34	0.19	80,80,92	0.0	0.0	0.0	0,0,0
27	0.15	0.34	0.19	80,80,92	0.0	0.0	0.0	0,0,0
28	0.15	0.35	0.20	80,80,92	0.0	0.0	0.0	0,0,0
29	0.15	0.37	0.20	80,80,92	0.0	0.0	0.0	0,0,0
30	0.16	0.35	0.21	80,80,92	0.0	0.0	0.0	0,0,0
31	0.09	0.37	0.18	81,82,97	0.0	0.0	0.0	0,0,0
32	0.08	0.29	0.17	81,82,97	0.0	0.0	0.0	0,0,0
33	0.07	0.25	0.15	81,82,97	0.0	0.0	0.0	0,0,0
34	0.07	0.23	0.12	82,82,97	0.0	0.0	0.0	0,0,0
35	0.06	0.19	0.10	82,82,97	0.0	0.0	0.0	0,0,0
36	0.05	0.12	0.08	82,82,95	0.0	0.0	0.0	0,0,0
37	0.06	0.17	0.10	82,82,95	0.0	0.0	0.0	0,0,0
38	0.07	0.27	0.11	82,82,96	0.0	0.0	0.0	0,0,0
39	0.08	0.32	0.14	82,82,96	0.0	0.0	0.0	0,0,0
40	0.08	0.34	0.16	82,82,96	0.0	0.0	0.0	0,0,0
52	0.10	0.32	0.18	81,82,95	0.0	0.0	0.0	0,0,0
53	0.10	0.31	0.16	82,82,95	0.0	0.0	0.0	0,0,0
54	0.10	0.30	0.14	82,82,97	0.0	0.0	0.0	0,0,0
55	0.11	0.27	0.15	82,82,97	0.0	0.0	0.0	0,0,0
56	0.10	0.28	0.15	82,82,95	0.0	0.0	0.0	0,0,0
57	0.11	0.33	0.15	82,82,96	0.0	0.0	0.0	0,0,0
58	0.12	0.36	0.15	82,82,95	0.0	0.0	0.0	0,0,0
59	0.12	0.38	0.16	82,82,96	0.0	0.0	0.0	0,0,0
78	0.09	0.28	0.12	82,82,95	0.0	0.0	0.0	0,0,0
79	0.08	0.27	0.12	82,82,95	0.0	0.0	0.0	0,0,0
80	0.08	0.27	0.12	82,82,95	0.0	0.0	0.0	0,0,0
81	0.08	0.27	0.11	82,82,95	0.0	0.0	0.0	0,0,0
82	0.08	0.26	0.11	82,82,95	0.0	0.0	0.0	0,0,0
83	0.08	0.26	0.11	82,82,95	0.0	0.0	0.0	0,0,0
84	0.08	0.27	0.11	82,82,95	0.0	0.0	0.0	0,0,0
85	0.08	0.29	0.11	82,82,95	0.0	0.0	0.0	0,0,0
86	0.07	0.35	0.12	82,82,95	0.0	0.0	0.0	0,0,0
87	0.07	0.31	0.11	82,82,95	0.0	0.0	0.0	0,0,0
88	0.06	0.27	0.11	82,82,95	0.0	0.0	0.0	0,0,0
89	0.06	0.23	0.10	82,82,95	0.0	0.0	0.0	0,0,0
90	0.04	0.18	0.09	82,82,97	0.0	0.0	0.0	0,0,0
91	0.10	0.28	0.18	82,82,95	0.0	0.0	0.0	0,0,0
92	0.12	0.32	0.20	82,82,96	0.0	0.0	0.0	0,0,0
93	0.06	0.25	0.11	82,82,96	0.0	0.0	0.0	0,0,0
94	0.07	0.32	0.13	82,82,95	0.0	0.0	0.0	0,0,0
95	0.09	0.37	0.14	82,82,95	0.0	0.0	0.0	0,0,0
107	0.11	0.38	0.16	82,82,95	0.0	0.0	0.0	0,0,0
108	0.11	0.36	0.16	82,82,95	0.0	0.0	0.0	0,0,0
109	0.10	0.32	0.15	82,82,95	0.0	0.0	0.0	0,0,0
110	0.09	0.27	0.15	82,82,95	0.0	0.0	0.0	0,0,0
111	0.10	0.30	0.18	82,82,95	0.0	0.0	0.0	0,0,0
112	0.11	0.34	0.14	82,82,96	0.0	0.0	0.0	0,0,0
113	0.12	0.37	0.17	82,82,95	0.0	0.0	0.0	0,0,0
114	0.13	0.41	0.19	82,82,95	0.0	0.0	0.0	0,0,0
133	0.12	0.36	0.17	82,82,95	0.0	0.0	0.0	0,0,0
134	0.12	0.36	0.17	82,82,95	0.0	0.0	0.0	0,0,0
135	0.11	0.35	0.17	82,82,95	0.0	0.0	0.0	0,0,0
136	0.11	0.35	0.16	82,82,95	0.0	0.0	0.0	0,0,0
137	0.11	0.34	0.16	82,82,95	0.0	0.0	0.0	0,0,0
138	0.11	0.34	0.16	82,82,95	0.0	0.0	0.0	0,0,0
139	0.11	0.34	0.15	82,82,95	0.0	0.0	0.0	0,0,0
140	0.11	0.35	0.16	82,82,95	0.0	0.0	0.0	0,0,0
141	0.07	0.35	0.15	81,82,95	0.0	0.0	0.0	0,0,0
142	0.07	0.31	0.15	81,82,95	0.0	0.0	0.0	0,0,0
143	0.06	0.27	0.13	81,82,97	0.0	0.0	0.0	0,0,0
144	0.05	0.23	0.11	82,82,97	0.0	0.0	0.0	0,0,0
145	0.05	0.17	0.09	82,82,95	0.0	0.0	0.0	0,0,0
146	0.13	0.37	0.25	82,82,95	0.0	0.0	0.0	0,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
147	0.15	0.42	0.27	82,82,95	0.0	0.0	0.17	0,0,95
148	0.06	0.24	0.10	82,82,96	0.0	0.0	0.0	0,0,0
149	0.07	0.32	0.14	82,82,95	0.0	0.0	0.0	0,0,0
150	0.09	0.36	0.17	82,82,95	0.0	0.0	0.0	0,0,0
162	0.13	0.41	0.20	82,82,95	0.0	0.0	0.0	0,0,0
163	0.11	0.36	0.18	82,82,95	0.0	0.0	0.0	0,0,0
164	0.10	0.33	0.15	82,82,95	0.0	0.0	0.0	0,0,0
165	0.09	0.28	0.19	81,82,95	0.0	0.0	0.0	0,0,0
166	0.10	0.27	0.19	81,82,95	0.0	0.0	0.0	0,0,0
167	0.10	0.32	0.14	82,82,95	0.0	0.0	0.0	0,0,0
168	0.12	0.37	0.17	82,82,95	0.0	0.0	0.0	0,0,0
169	0.13	0.42	0.20	82,82,95	0.0	0.0	0.0	0,0,0
188	0.13	0.44	0.20	82,82,95	0.0	0.0	0.0	0,0,0
189	0.13	0.43	0.19	82,82,95	0.0	0.0	0.0	0,0,0
190	0.13	0.43	0.19	82,82,95	0.0	0.0	0.0	0,0,0
191	0.13	0.42	0.19	82,82,95	0.0	0.0	0.0	0,0,0
192	0.13	0.42	0.18	82,82,95	0.0	0.0	0.0	0,0,0
193	0.13	0.41	0.18	82,82,95	0.0	0.0	0.0	0,0,0
194	0.13	0.41	0.18	82,82,95	0.0	0.0	0.0	0,0,0
195	0.13	0.42	0.18	82,82,95	0.0	0.0	0.0	0,0,0
196	0.08	0.34	0.17	81,82,97	0.0	0.0	0.0	0,0,0
197	0.08	0.30	0.16	81,82,97	0.0	0.0	0.0	0,0,0
198	0.07	0.26	0.14	81,82,97	0.0	0.0	0.0	0,0,0
199	0.05	0.21	0.11	81,82,97	0.0	0.0	0.0	0,0,0
200	0.05	0.16	0.09	82,82,95	0.0	0.0	0.0	0,0,0
201	0.14	0.40	0.27	82,82,95	0.0	0.0	0.19	0,0,97
202	0.16	0.45	0.30	82,82,95	0.0	0.0	0.23	0,0,95
203	0.06	0.20	0.10	82,82,95	0.0	0.0	0.0	0,0,0
204	0.07	0.29	0.14	82,82,95	0.0	0.0	0.0	0,0,0
205	0.09	0.35	0.17	82,82,95	0.0	0.0	0.0	0,0,0
217	0.13	0.41	0.21	82,82,95	0.0	0.0	0.0	0,0,0
218	0.11	0.37	0.18	82,82,95	0.0	0.0	0.0	0,0,0
219	0.09	0.31	0.14	82,82,95	0.0	0.0	0.0	0,0,0
220	0.10	0.25	0.20	81,82,95	0.0	0.0	0.0	0,0,0
221	0.10	0.22	0.19	81,81,95	0.0	0.0	0.0	0,0,0
222	0.08	0.27	0.12	82,82,95	0.0	0.0	0.0	0,0,0
223	0.11	0.34	0.17	82,82,95	0.0	0.0	0.0	0,0,0
224	0.13	0.40	0.20	82,82,95	0.0	0.0	0.0	0,0,0
243	0.14	0.49	0.21	82,82,95	0.0	0.0	0.0	0,0,0
244	0.14	0.48	0.20	82,82,95	0.0	0.0	0.0	0,0,0
245	0.14	0.48	0.20	82,82,95	0.0	0.0	0.0	0,0,0
246	0.13	0.47	0.19	82,82,95	0.0	0.0	0.0	0,0,0
247	0.13	0.46	0.19	82,82,95	0.0	0.0	0.0	0,0,0
248	0.13	0.46	0.19	82,82,95	0.0	0.0	0.0	0,0,0
249	0.13	0.47	0.18	82,82,95	0.0	0.0	0.0	0,0,0
250	0.13	0.47	0.18	82,82,95	0.0	0.0	0.0	0,0,0
251	0.08	0.31	0.17	81,82,97	0.0	0.0	0.0	0,0,0
252	0.08	0.27	0.16	81,82,97	0.0	0.0	0.0	0,0,0
253	0.07	0.23	0.14	81,82,97	0.0	0.0	0.0	0,0,0
254	0.05	0.18	0.11	81,82,97	0.0	0.0	0.0	0,0,0
255	0.05	0.17	0.09	82,82,95	0.0	0.0	0.0	0,0,0
256	0.14	0.40	0.28	82,82,95	0.0	0.0	0.19	0,0,95
257	0.16	0.44	0.30	82,82,95	0.0	0.0	0.23	0,0,95
258	0.06	0.20	0.10	82,82,95	0.0	0.0	0.0	0,0,0
259	0.07	0.24	0.13	82,82,95	0.0	0.0	0.0	0,0,0
260	0.09	0.31	0.17	82,82,95	0.0	0.0	0.0	0,0,0
272	0.13	0.39	0.21	82,82,95	0.0	0.0	0.0	0,0,0
273	0.11	0.33	0.17	82,82,95	0.0	0.0	0.0	0,0,0
274	0.08	0.26	0.12	82,82,95	0.0	0.0	0.0	0,0,0
275	0.10	0.22	0.20	81,81,95	0.0	0.0	0.0	0,0,0
276	0.09	0.21	0.19	81,81,95	0.0	0.0	0.0	0,0,0
277	0.08	0.20	0.13	82,82,95	0.0	0.0	0.0	0,0,0
278	0.10	0.28	0.17	82,82,95	0.0	0.0	0.0	0,0,0
279	0.12	0.34	0.20	82,82,95	0.0	0.0	0.0	0,0,0
298	0.13	0.46	0.19	82,82,95	0.0	0.0	0.0	0,0,0
299	0.13	0.46	0.18	82,82,95	0.0	0.0	0.0	0,0,0
300	0.13	0.45	0.18	82,82,95	0.0	0.0	0.0	0,0,0
301	0.13	0.45	0.17	82,82,95	0.0	0.0	0.0	0,0,0
302	0.12	0.45	0.17	82,82,95	0.0	0.0	0.0	0,0,0
303	0.12	0.45	0.17	82,82,95	0.0	0.0	0.0	0,0,0
304	0.12	0.45	0.16	82,82,95	0.0	0.0	0.0	0,0,0
305	0.13	0.45	0.17	82,82,95	0.0	0.0	0.0	0,0,0
306	0.08	0.26	0.16	81,82,95	0.0	0.0	0.0	0,0,0
307	0.07	0.23	0.15	81,82,95	0.0	0.0	0.0	0,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
308	0.06	0.19	0.13	81,82,97	0.0	0.0	0.0	0,0,0
309	0.05	0.14	0.11	81,82,97	0.0	0.0	0.0	0,0,0
310	0.04	0.17	0.09	82,82,95	0.0	0.0	0.0	0,0,0
311	0.13	0.37	0.27	82,82,95	0.0	0.0	0.17	0,0,97
312	0.15	0.42	0.29	82,82,95	0.0	0.0	0.21	0,0,95
313	0.05	0.20	0.10	82,82,95	0.0	0.0	0.0	0,0,0
314	0.07	0.19	0.13	82,82,96	0.0	0.0	0.0	0,0,0
315	0.08	0.26	0.16	82,82,95	0.0	0.0	0.0	0,0,0
327	0.12	0.34	0.20	82,82,95	0.0	0.0	0.0	0,0,0
328	0.10	0.27	0.17	82,82,95	0.0	0.0	0.0	0,0,0
329	0.09	0.22	0.13	82,82,95	0.0	0.0	0.0	0,0,0
330	0.09	0.21	0.19	81,81,95	0.0	0.0	0.0	0,0,0
331	0.08	0.18	0.16	81,81,95	0.0	0.0	0.0	0,0,0
332	0.08	0.19	0.13	82,82,95	0.0	0.0	0.0	0,0,0
333	0.08	0.22	0.16	82,82,95	0.0	0.0	0.0	0,0,0
334	0.09	0.26	0.16	82,82,95	0.0	0.0	0.0	0,0,0
353	0.10	0.39	0.14	82,82,94	0.0	0.0	0.0	0,0,0
354	0.10	0.39	0.15	82,82,94	0.0	0.0	0.0	0,0,0
355	0.10	0.39	0.15	82,82,94	0.0	0.0	0.0	0,0,0
356	0.10	0.39	0.16	82,82,94	0.0	0.0	0.0	0,0,0
357	0.10	0.39	0.16	82,82,94	0.0	0.0	0.0	0,0,0
358	0.10	0.39	0.16	82,82,94	0.0	0.0	0.0	0,0,0
359	0.10	0.39	0.17	82,82,94	0.0	0.0	0.0	0,0,0
360	0.10	0.39	0.18	82,82,94	0.0	0.0	0.0	0,0,0
361	0.06	0.18	0.13	81,82,95	0.0	0.0	0.0	0,0,0
362	0.06	0.17	0.12	81,82,95	0.0	0.0	0.0	0,0,0
363	0.05	0.14	0.11	81,82,95	0.0	0.0	0.0	0,0,0
364	0.05	0.12	0.10	81,82,97	0.0	0.0	0.0	0,0,0
365	0.04	0.17	0.09	81,82,95	0.0	0.0	0.0	0,0,0
366	0.10	0.31	0.22	82,82,95	0.0	0.0	0.0	0,0,0
367	0.12	0.35	0.24	82,82,96	0.0	0.0	0.0	0,0,0
368	0.05	0.19	0.10	82,82,95	0.0	0.0	0.0	0,0,0
369	0.06	0.16	0.12	82,82,96	0.0	0.0	0.0	0,0,0
370	0.07	0.20	0.14	82,82,95	0.0	0.0	0.0	0,0,0
382	0.09	0.25	0.17	82,82,95	0.0	0.0	0.0	0,0,0
383	0.09	0.23	0.16	82,82,95	0.0	0.0	0.0	0,0,0
384	0.09	0.21	0.14	82,82,95	0.0	0.0	0.0	0,0,0
385	0.08	0.19	0.16	81,82,95	0.0	0.0	0.0	0,0,0
386	0.06	0.16	0.12	82,82,95	0.0	0.0	0.0	0,0,0
387	0.06	0.17	0.12	82,82,95	0.0	0.0	0.0	0,0,0
388	0.06	0.16	0.12	82,82,95	0.0	0.0	0.0	0,0,0
389	0.06	0.19	0.13	82,82,95	0.0	0.0	0.0	0,0,0
408	0.06	0.29	0.15	80,82,94	0.0	0.0	0.0	0,0,0
409	0.06	0.30	0.16	80,82,94	0.0	0.0	0.0	0,0,0
410	0.07	0.30	0.17	80,82,94	0.0	0.0	0.0	0,0,0
411	0.07	0.31	0.18	80,82,94	0.0	0.0	0.0	0,0,0
412	0.07	0.31	0.19	80,82,94	0.0	0.0	0.0	0,0,0
413	0.07	0.31	0.20	80,82,94	0.0	0.0	0.0	0,0,0
414	0.07	0.31	0.20	80,82,94	0.0	0.0	0.0	0,0,0
415	0.07	0.30	0.21	80,82,94	0.0	0.0	0.0	0,0,0
416	0.06	0.18	0.12	81,82,97	0.0	0.0	0.0	0,0,0
417	0.05	0.17	0.11	81,82,97	0.0	0.0	0.0	0,0,0
418	0.05	0.15	0.10	81,82,97	0.0	0.0	0.0	0,0,0
419	0.04	0.14	0.08	81,82,95	0.0	0.0	0.0	0,0,0
420	0.03	0.16	0.08	81,82,95	0.0	0.0	0.0	0,0,0
421	0.07	0.22	0.15	81,82,97	0.0	0.0	0.0	0,0,0
422	0.08	0.26	0.17	82,82,96	0.0	0.0	0.0	0,0,0
423	0.04	0.17	0.10	82,82,95	0.0	0.0	0.0	0,0,0
424	0.05	0.17	0.11	82,82,95	0.0	0.0	0.0	0,0,0
425	0.06	0.19	0.12	82,82,95	0.0	0.0	0.0	0,0,0
437	0.07	0.25	0.13	82,82,95	0.0	0.0	0.0	0,0,0
438	0.07	0.21	0.12	82,82,95	0.0	0.0	0.0	0,0,0
439	0.07	0.17	0.12	82,82,95	0.0	0.0	0.0	0,0,0
440	0.08	0.17	0.12	82,82,95	0.0	0.0	0.0	0,0,0
441	0.05	0.14	0.11	82,82,95	0.0	0.0	0.0	0,0,0
…								
2475	0.11	0.27	0.15	82,82,97	0.0	0.0	0.0	0,0,0
	rRfck	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
Max	0.21	0.59	0.42		0.17	0.0	0.35	

3.11 PARETI

Le pareti della vasca hanno spessore 50 cm.



3.11.1 MODELLAZIONE STRUTTURA: NODI

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	0.0	0.0	0.0	2	100.0	0.0	0.0	3	200.0	0.0	0.0
4	300.0	0.0	0.0	5	400.0	0.0	0.0	6	500.0	0.0	0.0
7	600.0	0.0	0.0	8	700.0	0.0	0.0	9	800.0	0.0	0.0
10	900.0	0.0	0.0	11	1000.0	0.0	0.0	12	1100.0	0.0	0.0
13	1200.0	0.0	0.0	14	1300.0	0.0	0.0	15	1400.0	0.0	0.0
16	1500.0	0.0	0.0	17	1600.0	0.0	0.0	18	1700.0	0.0	0.0
19	1800.0	0.0	0.0	20	1900.0	0.0	0.0	21	2000.0	0.0	0.0
22	2100.0	0.0	0.0	23	2200.0	0.0	0.0	24	2300.0	0.0	0.0
25	2400.0	0.0	0.0	26	2500.0	0.0	0.0	27	2600.0	0.0	0.0
28	2700.0	0.0	0.0	29	2800.0	0.0	0.0	30	2900.0	0.0	0.0
31	3000.0	0.0	0.0	32	3010.0	0.0	0.0	33	3110.0	0.0	0.0
34	3210.0	0.0	0.0	35	3310.0	0.0	0.0	36	3410.0	0.0	0.0
37	3510.0	0.0	0.0	38	3610.0	0.0	0.0	39	3710.0	0.0	0.0
40	3810.0	0.0	0.0	41	3910.0	0.0	0.0	42	4010.0	0.0	0.0
43	4110.0	0.0	0.0	44	4210.0	0.0	0.0	45	4310.0	0.0	0.0
46	4410.0	0.0	0.0	47	4510.0	0.0	0.0	48	4610.0	0.0	0.0
49	4710.0	0.0	0.0	50	4810.0	0.0	0.0	51	4910.0	0.0	0.0
52	5010.0	0.0	0.0	53	5110.0	0.0	0.0	54	5210.0	0.0	0.0
55	5310.0	0.0	0.0	56	5410.0	0.0	0.0	57	5510.0	0.0	0.0
58	0.0	96.7	0.0	95	3610.0	96.7	0.0	114	5510.0	96.7	0.0
115	0.0	193.3	0.0	152	3610.0	193.3	0.0	171	5510.0	193.3	0.0
172	0.0	290.0	0.0	209	3610.0	290.0	0.0	228	5510.0	290.0	0.0
229	0.0	386.7	0.0	266	3610.0	386.7	0.0	285	5510.0	386.7	0.0
286	0.0	483.3	0.0	323	3610.0	483.3	0.0	342	5510.0	483.3	0.0
343	0.0	580.0	0.0	380	3610.0	580.0	0.0	399	5510.0	580.0	0.0
400	0.0	676.7	0.0	437	3610.0	676.7	0.0	456	5510.0	676.7	0.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
457	0.0	773.3	0.0	494	3610.0	773.3	0.0	513	5510.0	773.3	0.0
514	0.0	870.0	0.0	515	100.0	870.0	0.0	516	200.0	870.0	0.0
517	300.0	870.0	0.0	518	400.0	870.0	0.0	519	500.0	870.0	0.0
520	600.0	870.0	0.0	521	700.0	870.0	0.0	522	800.0	870.0	0.0
523	900.0	870.0	0.0	524	1000.0	870.0	0.0	525	1100.0	870.0	0.0
526	1200.0	870.0	0.0	527	1300.0	870.0	0.0	528	1400.0	870.0	0.0
529	1500.0	870.0	0.0	530	1600.0	870.0	0.0	531	1700.0	870.0	0.0
532	1800.0	870.0	0.0	533	1900.0	870.0	0.0	534	2000.0	870.0	0.0
535	2100.0	870.0	0.0	536	2200.0	870.0	0.0	537	2300.0	870.0	0.0
538	2400.0	870.0	0.0	539	2500.0	870.0	0.0	540	2600.0	870.0	0.0
541	2700.0	870.0	0.0	542	2800.0	870.0	0.0	543	2900.0	870.0	0.0
544	3000.0	870.0	0.0	545	3010.0	870.0	0.0	546	3110.0	870.0	0.0
547	3210.0	870.0	0.0	548	3310.0	870.0	0.0	549	3410.0	870.0	0.0
550	3510.0	870.0	0.0	551	3610.0	870.0	0.0	552	3710.0	870.0	0.0
553	3810.0	870.0	0.0	554	3910.0	870.0	0.0	555	4010.0	870.0	0.0
556	4110.0	870.0	0.0	557	4210.0	870.0	0.0	558	4310.0	870.0	0.0
559	4410.0	870.0	0.0	560	4510.0	870.0	0.0	561	4610.0	870.0	0.0
562	4710.0	870.0	0.0	563	4810.0	870.0	0.0	564	4910.0	870.0	0.0
565	5010.0	870.0	0.0	566	5110.0	870.0	0.0	567	5210.0	870.0	0.0
568	5310.0	870.0	0.0	569	5410.0	870.0	0.0	570	5510.0	870.0	0.0
571	0.0	966.7	0.0	608	3610.0	966.7	0.0	627	5510.0	966.7	0.0
628	0.0	1063.3	0.0	665	3610.0	1063.3	0.0	684	5510.0	1063.3	0.0
685	0.0	1160.0	0.0	722	3610.0	1160.0	0.0	741	5510.0	1160.0	0.0
742	0.0	1256.7	0.0	779	3610.0	1256.7	0.0	798	5510.0	1256.7	0.0
799	0.0	1353.3	0.0	836	3610.0	1353.3	0.0	855	5510.0	1353.3	0.0
856	0.0	1450.0	0.0	893	3610.0	1450.0	0.0	912	5510.0	1450.0	0.0
913	0.0	1546.7	0.0	950	3610.0	1546.7	0.0	969	5510.0	1546.7	0.0
970	0.0	1643.3	0.0	1007	3610.0	1643.3	0.0	1026	5510.0	1643.3	0.0
1027	0.0	1740.0	0.0	1028	100.0	1740.0	0.0	1029	200.0	1740.0	0.0
1030	300.0	1740.0	0.0	1031	400.0	1740.0	0.0	1032	500.0	1740.0	0.0
1033	600.0	1740.0	0.0	1034	700.0	1740.0	0.0	1035	800.0	1740.0	0.0
1036	900.0	1740.0	0.0	1037	1000.0	1740.0	0.0	1038	1100.0	1740.0	0.0
1039	1200.0	1740.0	0.0	1040	1300.0	1740.0	0.0	1041	1400.0	1740.0	0.0
1042	1500.0	1740.0	0.0	1043	1600.0	1740.0	0.0	1044	1700.0	1740.0	0.0
1045	1800.0	1740.0	0.0	1046	1900.0	1740.0	0.0	1047	2000.0	1740.0	0.0
1048	2100.0	1740.0	0.0	1049	2200.0	1740.0	0.0	1050	2300.0	1740.0	0.0
1051	2400.0	1740.0	0.0	1052	2500.0	1740.0	0.0	1053	2600.0	1740.0	0.0
1054	2700.0	1740.0	0.0	1055	2800.0	1740.0	0.0	1056	2900.0	1740.0	0.0
1057	3000.0	1740.0	0.0	1058	3010.0	1740.0	0.0	1059	3110.0	1740.0	0.0
1060	3210.0	1740.0	0.0	1061	3310.0	1740.0	0.0	1062	3410.0	1740.0	0.0
1063	3510.0	1740.0	0.0	1064	3610.0	1740.0	0.0	1065	3710.0	1740.0	0.0
1066	3810.0	1740.0	0.0	1067	3910.0	1740.0	0.0	1068	4010.0	1740.0	0.0
1069	4110.0	1740.0	0.0	1070	4210.0	1740.0	0.0	1071	4310.0	1740.0	0.0
1072	4410.0	1740.0	0.0	1073	4510.0	1740.0	0.0	1074	4610.0	1740.0	0.0
1075	4710.0	1740.0	0.0	1076	4810.0	1740.0	0.0	1077	4910.0	1740.0	0.0
1078	5010.0	1740.0	0.0	1079	5110.0	1740.0	0.0	1080	5210.0	1740.0	0.0
1081	5310.0	1740.0	0.0	1082	5410.0	1740.0	0.0	1083	5510.0	1740.0	0.0
1084	0.0	1836.7	0.0	1121	3610.0	1836.7	0.0	1140	5510.0	1836.7	0.0
1141	0.0	1933.3	0.0	1178	3610.0	1933.3	0.0	1197	5510.0	1933.3	0.0
1198	0.0	2030.0	0.0	1235	3610.0	2030.0	0.0	1254	5510.0	2030.0	0.0
1255	0.0	2126.7	0.0	1292	3610.0	2126.7	0.0	1311	5510.0	2126.7	0.0
1312	0.0	2223.3	0.0	1349	3610.0	2223.3	0.0	1368	5510.0	2223.3	0.0
1369	0.0	2320.0	0.0	1406	3610.0	2320.0	0.0	1425	5510.0	2320.0	0.0
1426	0.0	2416.7	0.0	1463	3610.0	2416.7	0.0	1482	5510.0	2416.7	0.0
1483	0.0	2513.3	0.0	1520	3610.0	2513.3	0.0	1539	5510.0	2513.3	0.0
1540	0.0	2610.0	0.0	1541	100.0	2610.0	0.0	1542	200.0	2610.0	0.0
1543	300.0	2610.0	0.0	1544	400.0	2610.0	0.0	1545	500.0	2610.0	0.0
1546	600.0	2610.0	0.0	1547	700.0	2610.0	0.0	1548	800.0	2610.0	0.0
1549	900.0	2610.0	0.0	1550	1000.0	2610.0	0.0	1551	1100.0	2610.0	0.0
1552	1200.0	2610.0	0.0	1553	1300.0	2610.0	0.0	1554	1400.0	2610.0	0.0
1555	1500.0	2610.0	0.0	1556	1600.0	2610.0	0.0	1557	1700.0	2610.0	0.0
1558	1800.0	2610.0	0.0	1559	1900.0	2610.0	0.0	1560	2000.0	2610.0	0.0
1561	2100.0	2610.0	0.0	1562	2200.0	2610.0	0.0	1563	2300.0	2610.0	0.0
1564	2400.0	2610.0	0.0	1565	2500.0	2610.0	0.0	1566	2600.0	2610.0	0.0
1567	2700.0	2610.0	0.0	1568	2800.0	2610.0	0.0	1569	2900.0	2610.0	0.0
1570	3000.0	2610.0	0.0	1571	3010.0	2610.0	0.0	1572	3110.0	2610.0	0.0
1573	3210.0	2610.0	0.0	1574	3310.0	2610.0	0.0	1575	3410.0	2610.0	0.0
1576	3510.0	2610.0	0.0	1577	3610.0	2610.0	0.0	1578	3710.0	2610.0	0.0
1579	3810.0	2610.0	0.0	1580	3910.0	2610.0	0.0	1581	4010.0	2610.0	0.0
1582	4110.0	2610.0	0.0	1583	4210.0	2610.0	0.0	1584	4310.0	2610.0	0.0
1585	4410.0	2610.0	0.0	1586	4510.0	2610.0	0.0	1587	4610.0	2610.0	0.0
1588	4710.0	2610.0	0.0	1589	4810.0	2610.0	0.0	1590	4910.0	2610.0	0.0
1591	5010.0	2610.0	0.0	1592	5110.0	2610.0	0.0	1593	5210.0	2610.0	0.0
1594	5310.0	2610.0	0.0	1595	5410.0	2610.0	0.0	1596	5510.0	2610.0	0.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1597	0.0	2706.7	0.0	1634	3610.0	2706.7	0.0	1653	5510.0	2706.7	0.0
1654	0.0	2803.3	0.0	1691	3610.0	2803.3	0.0	1710	5510.0	2803.3	0.0
1711	0.0	2900.0	0.0	1748	3610.0	2900.0	0.0	1767	5510.0	2900.0	0.0
1768	0.0	2996.7	0.0	1805	3610.0	2996.7	0.0	1824	5510.0	2996.7	0.0
1825	0.0	3093.3	0.0	1862	3610.0	3093.3	0.0	1881	5510.0	3093.3	0.0
1882	0.0	3190.0	0.0	1919	3610.0	3190.0	0.0	1938	5510.0	3190.0	0.0
1939	0.0	3286.7	0.0	1976	3610.0	3286.7	0.0	1995	5510.0	3286.7	0.0
1996	0.0	3383.3	0.0	2033	3610.0	3383.3	0.0	2052	5510.0	3383.3	0.0
2053	0.0	3480.0	0.0	2054	100.0	3480.0	0.0	2055	200.0	3480.0	0.0
2056	300.0	3480.0	0.0	2057	400.0	3480.0	0.0	2058	500.0	3480.0	0.0
2059	600.0	3480.0	0.0	2060	700.0	3480.0	0.0	2061	800.0	3480.0	0.0
2062	900.0	3480.0	0.0	2063	1000.0	3480.0	0.0	2064	1100.0	3480.0	0.0
2065	1200.0	3480.0	0.0	2066	1300.0	3480.0	0.0	2067	1400.0	3480.0	0.0
2068	1500.0	3480.0	0.0	2069	1600.0	3480.0	0.0	2070	1700.0	3480.0	0.0
2071	1800.0	3480.0	0.0	2072	1900.0	3480.0	0.0	2073	2000.0	3480.0	0.0
2074	2100.0	3480.0	0.0	2075	2200.0	3480.0	0.0	2076	2300.0	3480.0	0.0
2077	2400.0	3480.0	0.0	2078	2500.0	3480.0	0.0	2079	2600.0	3480.0	0.0
2080	2700.0	3480.0	0.0	2081	2800.0	3480.0	0.0	2082	2900.0	3480.0	0.0
2083	3000.0	3480.0	0.0	2084	3010.0	3480.0	0.0	2085	3110.0	3480.0	0.0
2086	3210.0	3480.0	0.0	2087	3310.0	3480.0	0.0	2088	3410.0	3480.0	0.0
2089	3510.0	3480.0	0.0	2090	3610.0	3480.0	0.0	2091	3710.0	3480.0	0.0
2092	3810.0	3480.0	0.0	2093	3910.0	3480.0	0.0	2094	4010.0	3480.0	0.0
2095	4110.0	3480.0	0.0	2096	4210.0	3480.0	0.0	2097	4310.0	3480.0	0.0
2098	4410.0	3480.0	0.0	2099	4510.0	3480.0	0.0	2100	4610.0	3480.0	0.0
2101	4710.0	3480.0	0.0	2102	4810.0	3480.0	0.0	2103	4910.0	3480.0	0.0
2104	5010.0	3480.0	0.0	2105	5110.0	3480.0	0.0	2106	5210.0	3480.0	0.0
2107	5310.0	3480.0	0.0	2108	5410.0	3480.0	0.0	2109	5510.0	3480.0	0.0
2110	0.0	3576.7	0.0	2147	3610.0	3576.7	0.0	2166	5510.0	3576.7	0.0
2167	0.0	3673.3	0.0	2204	3610.0	3673.3	0.0	2223	5510.0	3673.3	0.0
2224	0.0	3770.0	0.0	2261	3610.0	3770.0	0.0	2280	5510.0	3770.0	0.0
2281	0.0	3866.7	0.0	2318	3610.0	3866.7	0.0	2337	5510.0	3866.7	0.0
2338	0.0	3963.3	0.0	2375	3610.0	3963.3	0.0	2394	5510.0	3963.3	0.0
2395	0.0	4060.0	0.0	2432	3610.0	4060.0	0.0	2451	5510.0	4060.0	0.0
2452	0.0	4156.7	0.0	2489	3610.0	4156.7	0.0	2508	5510.0	4156.7	0.0
2509	0.0	4253.3	0.0	2546	3610.0	4253.3	0.0	2565	5510.0	4253.3	0.0
2566	0.0	4350.0	0.0	2567	100.0	4350.0	0.0	2568	200.0	4350.0	0.0
2569	300.0	4350.0	0.0	2570	400.0	4350.0	0.0	2571	500.0	4350.0	0.0
2572	600.0	4350.0	0.0	2573	700.0	4350.0	0.0	2574	800.0	4350.0	0.0
2575	900.0	4350.0	0.0	2576	1000.0	4350.0	0.0	2577	1100.0	4350.0	0.0
2578	1200.0	4350.0	0.0	2579	1300.0	4350.0	0.0	2580	1400.0	4350.0	0.0
2581	1500.0	4350.0	0.0	2582	1600.0	4350.0	0.0	2583	1700.0	4350.0	0.0
2584	1800.0	4350.0	0.0	2585	1900.0	4350.0	0.0	2586	2000.0	4350.0	0.0
2587	2100.0	4350.0	0.0	2588	2200.0	4350.0	0.0	2589	2300.0	4350.0	0.0
2590	2400.0	4350.0	0.0	2591	2500.0	4350.0	0.0	2592	2600.0	4350.0	0.0
2593	2700.0	4350.0	0.0	2594	2800.0	4350.0	0.0	2595	2900.0	4350.0	0.0
2596	3000.0	4350.0	0.0	2597	3010.0	4350.0	0.0	2598	3110.0	4350.0	0.0
2599	3210.0	4350.0	0.0	2600	3310.0	4350.0	0.0	2601	3410.0	4350.0	0.0
2602	3510.0	4350.0	0.0	2603	3610.0	4350.0	0.0	2604	3710.0	4350.0	0.0
2605	3810.0	4350.0	0.0	2606	3910.0	4350.0	0.0	2607	4010.0	4350.0	0.0
2608	4110.0	4350.0	0.0	2609	4210.0	4350.0	0.0	2610	4310.0	4350.0	0.0
2611	4410.0	4350.0	0.0	2612	4510.0	4350.0	0.0	2613	4610.0	4350.0	0.0
2614	4710.0	4350.0	0.0	2615	4810.0	4350.0	0.0	2616	4910.0	4350.0	0.0
2617	5010.0	4350.0	0.0	2618	5110.0	4350.0	0.0	2619	5210.0	4350.0	0.0
2620	5310.0	4350.0	0.0	2621	5410.0	4350.0	0.0	2622	5510.0	4350.0	0.0
2623	0.0	0.0	97.5	2624	100.0	0.0	97.5	2625	200.0	0.0	97.5
2626	300.0	0.0	97.5	2627	400.0	0.0	97.5	2628	500.0	0.0	97.5
2629	600.0	0.0	97.5	2630	700.0	0.0	97.5	2631	800.0	0.0	97.5
2632	900.0	0.0	97.5	2633	1000.0	0.0	97.5	2634	1100.0	0.0	97.5
2635	1200.0	0.0	97.5	2636	1300.0	0.0	97.5	2637	1400.0	0.0	97.5
2638	1500.0	0.0	97.5	2639	1600.0	0.0	97.5	2640	1700.0	0.0	97.5
2641	1800.0	0.0	97.5	2642	1900.0	0.0	97.5	2643	2000.0	0.0	97.5
2644	2100.0	0.0	97.5	2645	2200.0	0.0	97.5	2646	2300.0	0.0	97.5
2647	2400.0	0.0	97.5	2648	2500.0	0.0	97.5	2649	2600.0	0.0	97.5
2650	2700.0	0.0	97.5	2651	2800.0	0.0	97.5	2652	2900.0	0.0	97.5
2653	3000.0	0.0	97.5	2654	3010.0	0.0	97.5	2655	3110.0	0.0	97.5
2656	3210.0	0.0	97.5	2657	3310.0	0.0	97.5	2658	3410.0	0.0	97.5
2659	3510.0	0.0	97.5	2660	3610.0	0.0	97.5	2661	3710.0	0.0	97.5
2662	3810.0	0.0	97.5	2663	3910.0	0.0	97.5	2664	4010.0	0.0	97.5
2665	4110.0	0.0	97.5	2666	4210.0	0.0	97.5	2667	4310.0	0.0	97.5
2668	4410.0	0.0	97.5	2669	4510.0	0.0	97.5	2670	4610.0	0.0	97.5
…											
6274	5110.0	4350.0	780.0	6275	5210.0	4350.0	780.0	6276	5310.0	4350.0	780.0
6277	5410.0	4350.0	780.0	6278	5510.0	4350.0	780.0				

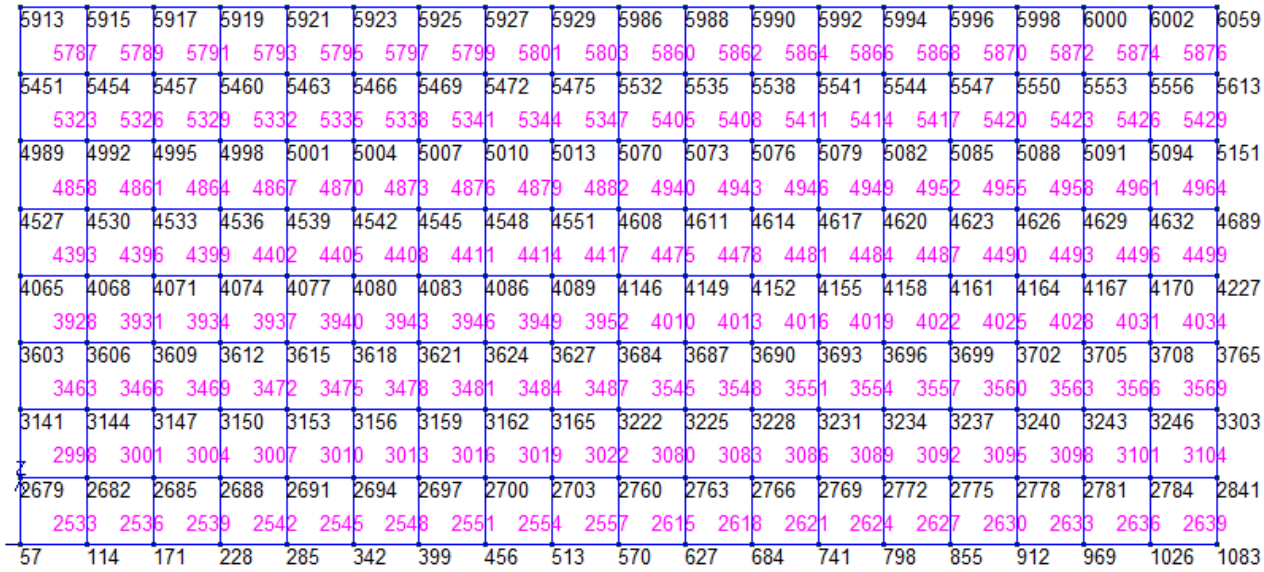
Numerazione nodi ed elementi tratto parete laterale sinistra



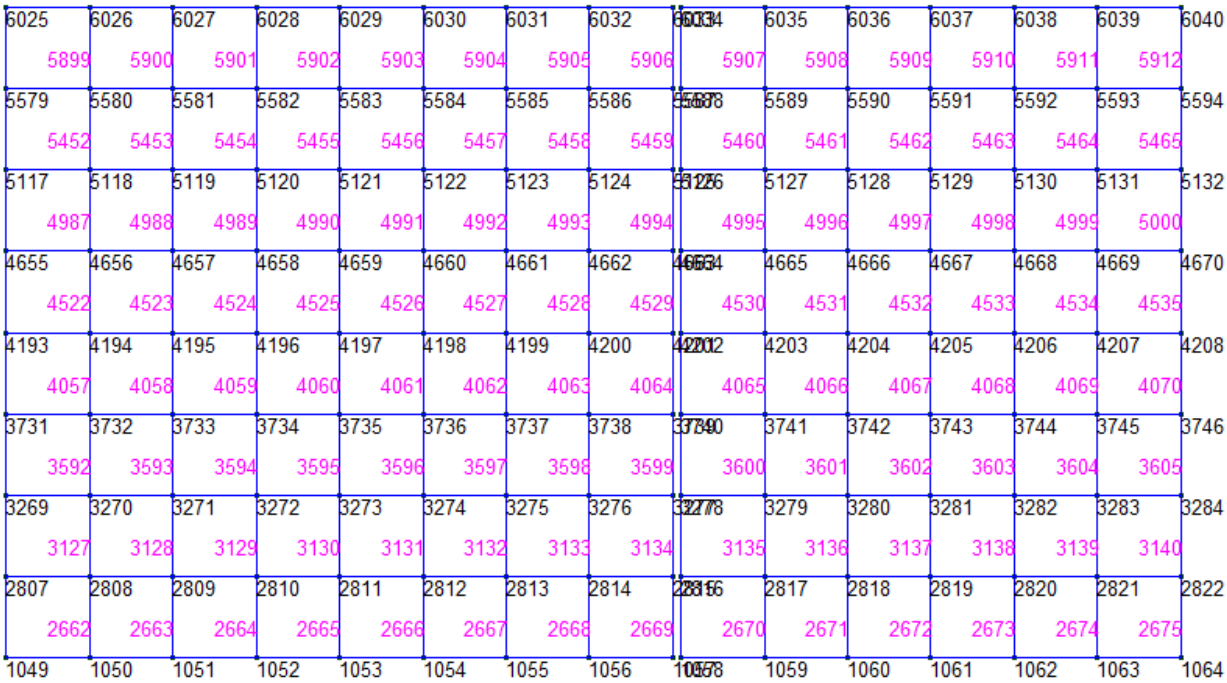
Numerazione nodi ed elementi tratto parete centrale



Numerazione nodi ed elementi tratto parete laterale destra



Numerazione nodi ed elementi parete longitudinale interna



3.11.2 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

TABELLA DATI SHELL

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
2476	Setto	2623	2624	2	1	4	70.0		
2477	Setto	2624	2625	3	2	4	70.0		
2478	Setto	2625	2626	4	3	4	70.0		
2479	Setto	2626	2627	5	4	4	70.0		
2480	Setto	2627	2628	6	5	4	70.0		
2481	Setto	2628	2629	7	6	4	70.0		
2482	Setto	2629	2630	8	7	4	70.0		
2483	Setto	2630	2631	9	8	4	70.0		
2484	Setto	2631	2632	10	9	4	70.0		
2485	Setto	2632	2633	11	10	4	70.0		
2486	Setto	2633	2634	12	11	4	70.0		
2487	Setto	2634	2635	13	12	4	70.0		
2488	Setto	2635	2636	14	13	4	70.0		
2489	Setto	2636	2637	15	14	4	70.0		
2490	Setto	2637	2638	16	15	4	70.0		
2491	Setto	2638	2639	17	16	4	70.0		
2492	Setto	2639	2640	18	17	4	70.0		
2493	Setto	2640	2641	19	18	4	70.0		
2494	Setto	2641	2642	20	19	4	70.0		
2495	Setto	2642	2643	21	20	4	70.0		
2496	Setto	2643	2644	22	21	4	70.0		
2497	Setto	2644	2645	23	22	4	70.0		
2498	Setto	2645	2646	24	23	4	70.0		
2499	Setto	2646	2647	25	24	4	70.0		
2500	Setto	2647	2648	26	25	4	70.0		
2501	Setto	2648	2649	27	26	4	70.0		
2502	Setto	2649	2650	28	27	4	70.0		
2503	Setto	2650	2651	29	28	4	70.0		
2504	Setto	2651	2652	30	29	4	70.0		
2505	Setto	2652	2653	31	30	4	70.0		
2506	Setto	2654	2655	33	32	4	70.0		
2507	Setto	2655	2656	34	33	4	70.0		
2508	Setto	2656	2657	35	34	4	70.0		
2509	Setto	2657	2658	36	35	4	70.0		
2510	Setto	2658	2659	37	36	4	70.0		
2511	Setto	2659	2660	38	37	4	70.0		
2512	Setto	2660	2661	39	38	4	70.0		
2513	Setto	2661	2662	40	39	4	70.0		
2514	Setto	2662	2663	41	40	4	70.0		
2515	Setto	2663	2664	42	41	4	70.0		
2516	Setto	2664	2665	43	42	4	70.0		
2517	Setto	2665	2666	44	43	4	70.0		
2518	Setto	2666	2667	45	44	4	70.0		
2519	Setto	2667	2668	46	45	4	70.0		
2520	Setto	2668	2669	47	46	4	70.0		
2521	Setto	2669	2670	48	47	4	70.0		
2522	Setto	2670	2671	49	48	4	70.0		
2523	Setto	2671	2672	50	49	4	70.0		
2524	Setto	2672	2673	51	50	4	70.0		
2525	Setto	2673	2674	52	51	4	70.0		
2526	Setto	2674	2675	53	52	4	70.0		
2527	Setto	2675	2676	54	53	4	70.0		
2528	Setto	2676	2677	55	54	4	70.0		
2529	Setto	2677	2678	56	55	4	70.0		
2530	Setto	2678	2679	57	56	4	70.0		
2531	Setto	1	58	2680	2623	4	70.0		
2532	Setto	38	95	2681	2660	4	70.0		
2533	Setto	57	114	2682	2679	4	70.0		
2534	Setto	58	115	2683	2680	4	70.0		
2535	Setto	95	152	2684	2681	4	70.0		
2536	Setto	114	171	2685	2682	4	70.0		
2537	Setto	115	172	2686	2683	4	70.0		
2538	Setto	152	209	2687	2684	4	70.0		
2539	Setto	171	228	2688	2685	4	70.0		
2540	Setto	172	229	2689	2686	4	70.0		
2541	Setto	209	266	2690	2687	4	70.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
2542	Setto	228	285	2691	2688	4	70.0		
2543	Setto	229	286	2692	2689	4	70.0		
2544	Setto	266	323	2693	2690	4	70.0		
2545	Setto	285	342	2694	2691	4	70.0		
2546	Setto	286	343	2695	2692	4	70.0		
2547	Setto	323	380	2696	2693	4	70.0		
2548	Setto	342	399	2697	2694	4	70.0		
2549	Setto	343	400	2698	2695	4	70.0		
2550	Setto	380	437	2699	2696	4	70.0		
2551	Setto	399	456	2700	2697	4	70.0		
2552	Setto	400	457	2701	2698	4	70.0		
2553	Setto	437	494	2702	2699	4	70.0		
2554	Setto	456	513	2703	2700	4	70.0		
2555	Setto	457	514	2704	2701	4	70.0		
2556	Setto	494	551	2741	2702	4	70.0		
2557	Setto	513	570	2760	2703	4	70.0		
2558	Setto	2704	2705	515	514	4	70.0		
2559	Setto	2705	2706	516	515	4	70.0		
2560	Setto	2706	2707	517	516	4	70.0		
2561	Setto	2707	2708	518	517	4	70.0		
2562	Setto	2708	2709	519	518	4	70.0		
2563	Setto	2709	2710	520	519	4	70.0		
2564	Setto	2710	2711	521	520	4	70.0		
2565	Setto	2711	2712	522	521	4	70.0		
2566	Setto	2712	2713	523	522	4	70.0		
2567	Setto	2713	2714	524	523	4	70.0		
2568	Setto	2714	2715	525	524	4	70.0		
2569	Setto	2715	2716	526	525	4	70.0		
2570	Setto	2716	2717	527	526	4	70.0		
2571	Setto	2717	2718	528	527	4	70.0		
2572	Setto	2718	2719	529	528	4	70.0		
2573	Setto	2719	2720	530	529	4	70.0		
2574	Setto	2720	2721	531	530	4	70.0		
2575	Setto	2721	2722	532	531	4	70.0		
2576	Setto	2722	2723	533	532	4	70.0		
2577	Setto	2723	2724	534	533	4	70.0		
2578	Setto	2724	2725	535	534	4	70.0		
2579	Setto	2725	2726	536	535	4	70.0		
2580	Setto	2726	2727	537	536	4	70.0		
2581	Setto	2727	2728	538	537	4	70.0		
2582	Setto	2728	2729	539	538	4	70.0		
2583	Setto	2729	2730	540	539	4	70.0		
2584	Setto	2730	2731	541	540	4	70.0		
2585	Setto	2731	2732	542	541	4	70.0		
2586	Setto	2732	2733	543	542	4	70.0		
2587	Setto	2733	2734	544	543	4	70.0		
2588	Setto	2735	2736	546	545	4	70.0		
2589	Setto	2736	2737	547	546	4	70.0		
2590	Setto	2737	2738	548	547	4	70.0		
2591	Setto	2738	2739	549	548	4	70.0		
2592	Setto	2739	2740	550	549	4	70.0		
2593	Setto	2740	2741	551	550	4	70.0		
2594	Setto	2741	2742	552	551	4	70.0		
2595	Setto	2742	2743	553	552	4	70.0		
2596	Setto	2743	2744	554	553	4	70.0		
2597	Setto	2744	2745	555	554	4	70.0		
2598	Setto	2745	2746	556	555	4	70.0		
2599	Setto	2746	2747	557	556	4	70.0		
2600	Setto	2747	2748	558	557	4	70.0		
2601	Setto	2748	2749	559	558	4	70.0		
2602	Setto	2749	2750	560	559	4	70.0		
2603	Setto	2750	2751	561	560	4	70.0		
2604	Setto	2751	2752	562	561	4	70.0		
2605	Setto	2752	2753	563	562	4	70.0		
2606	Setto	2753	2754	564	563	4	70.0		
2607	Setto	2754	2755	565	564	4	70.0		
2608	Setto	2755	2756	566	565	4	70.0		
2609	Setto	2756	2757	567	566	4	70.0		
2610	Setto	2757	2758	568	567	4	70.0		
2611	Setto	2758	2759	569	568	4	70.0		
2612	Setto	2759	2760	570	569	4	70.0		
2613	Setto	514	571	2761	2704	4	70.0		
2614	Setto	551	608	2762	2741	4	70.0		
2615	Setto	570	627	2763	2760	4	70.0		

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore	Wink V	Wink O
							cm	daN/cm3	daN/cm3
2616	Setto	571	628	2764	2761	4	70.0		
2617	Setto	608	665	2765	2762	4	70.0		
2618	Setto	627	684	2766	2763	4	70.0		
2619	Setto	628	685	2767	2764	4	70.0		
2620	Setto	665	722	2768	2765	4	70.0		
2621	Setto	684	741	2769	2766	4	70.0		
2622	Setto	685	742	2770	2767	4	70.0		
2623	Setto	722	779	2771	2768	4	70.0		
2624	Setto	741	798	2772	2769	4	70.0		
2625	Setto	742	799	2773	2770	4	70.0		
2626	Setto	779	836	2774	2771	4	70.0		
2627	Setto	798	855	2775	2772	4	70.0		
2628	Setto	799	856	2776	2773	4	70.0		
2629	Setto	836	893	2777	2774	4	70.0		
2630	Setto	855	912	2778	2775	4	70.0		
2631	Setto	856	913	2779	2776	4	70.0		
2632	Setto	893	950	2780	2777	4	70.0		
2633	Setto	912	969	2781	2778	4	70.0		
2634	Setto	913	970	2782	2779	4	70.0		
2635	Setto	950	1007	2783	2780	4	70.0		
2636	Setto	969	1026	2784	2781	4	70.0		
2637	Setto	970	1027	2785	2782	4	70.0		
2638	Setto	1007	1064	2822	2783	4	70.0		
2639	Setto	1026	1083	2841	2784	4	70.0		
2640	Setto	2785	2786	1028	1027	4	70.0		
2641	Setto	2786	2787	1029	1028	4	70.0		
2642	Setto	2787	2788	1030	1029	4	70.0		
2643	Setto	2788	2789	1031	1030	4	70.0		
2644	Setto	2789	2790	1032	1031	4	70.0		
2645	Setto	2790	2791	1033	1032	4	70.0		
2646	Setto	2791	2792	1034	1033	4	70.0		
2647	Setto	2792	2793	1035	1034	4	70.0		
2648	Setto	2793	2794	1036	1035	4	70.0		
2649	Setto	2794	2795	1037	1036	4	70.0		
2650	Setto	2795	2796	1038	1037	4	70.0		
2651	Setto	2796	2797	1039	1038	4	70.0		
2652	Setto	2797	2798	1040	1039	4	70.0		
2653	Setto	2798	2799	1041	1040	4	70.0		
2654	Setto	2799	2800	1042	1041	4	70.0		
2655	Setto	2800	2801	1043	1042	4	70.0		
2656	Setto	2801	2802	1044	1043	4	70.0		
2657	Setto	2802	2803	1045	1044	4	70.0		
2658	Setto	2803	2804	1046	1045	4	70.0		
2659	Setto	2804	2805	1047	1046	4	70.0		
2660	Setto	2805	2806	1048	1047	4	70.0		
2661	Setto	2806	2807	1049	1048	4	70.0		
2662	Setto	2807	2808	1050	1049	4	70.0		
2663	Setto	2808	2809	1051	1050	4	70.0		
2664	Setto	2809	2810	1052	1051	4	70.0		
2665	Setto	2810	2811	1053	1052	4	70.0		
2666	Setto	2811	2812	1054	1053	4	70.0		
2667	Setto	2812	2813	1055	1054	4	70.0		
2668	Setto	2813	2814	1056	1055	4	70.0		
2669	Setto	2814	2815	1057	1056	4	70.0		
2670	Setto	2816	2817	1059	1058	4	70.0		
2671	Setto	2817	2818	1060	1059	4	70.0		
2672	Setto	2818	2819	1061	1060	4	70.0		
2673	Setto	2819	2820	1062	1061	4	70.0		
2674	Setto	2820	2821	1063	1062	4	70.0		
2675	Setto	2821	2822	1064	1063	4	70.0		
2676	Setto	2822	2823	1065	1064	4	70.0		
2677	Setto	2823	2824	1066	1065	4	70.0		
2678	Setto	2824	2825	1067	1066	4	70.0		
2679	Setto	2825	2826	1068	1067	4	70.0		
2680	Setto	2826	2827	1069	1068	4	70.0		
2681	Setto	2827	2828	1070	1069	4	70.0		
2682	Setto	2828	2829	1071	1070	4	70.0		
2683	Setto	2829	2830	1072	1071	4	70.0		
…									
6150	Setto	6277	6278	5856	5855	4	70.0		

3.11.3 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

TABELLA VERIFICHE ELEMENTI PARETE IN C.A.

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
5	ok 1	0.07	0.2	2.01e-02	19.0	19.0	10.1	10.1	275.1	-212.7	-2.0	-2523.5	5587.2	-380.7
5	ok 58	0.07	0.3	3.79e-02	19.0	19.0	10.1	10.1	-164.2	-360.4	101.7	-1.149e+04	1094.9	-6092.3
5	ok 115	0.07	0.5	4.02e-02	19.0	19.0	10.1	10.1	-301.8	-367.3	92.2	-1.791e+04	-2883.9	-6647.0
5	ok 172	0.07	0.5	3.84e-02	19.0	19.0	10.1	10.1	-330.3	-333.9	85.9	-1.894e+04	-4509.6	-5534.6
5	ok 229	0.07	0.5	3.57e-02	19.0	19.0	10.1	10.1	-305.1	-269.5	11.0	-1.668e+04	-4620.8	-3755.3
5	ok 286	0.07	0.4	3.27e-02	19.0	19.0	10.1	10.1	-265.5	-268.6	88.8	-1.242e+04	-4153.5	-1445.2
5	ok 343	0.07	0.4	3.21e-02	19.0	19.0	10.1	10.1	-189.4	-219.3	29.0	-7582.0	-3096.3	445.2
5	ok 400	0.07	0.3	3.66e-02	19.0	19.0	10.1	10.1	-100.0	-215.9	42.3	-3168.1	-1791.1	3613.2
5	ok 457	0.07	0.2	4.65e-02	19.0	19.0	10.1	10.1	-21.7	-436.3	-166.4	-576.8	438.3	1174.4
5	ok 514	0.07	0.3	6.84e-02	19.0	19.0	10.1	10.1	53.4	-611.1	-7.5	-1437.7	4794.8	-837.0
5	ok 571	0.07	0.3	6.01e-02	19.0	19.0	10.1	10.1	-62.8	-544.1	-103.8	-6549.0	-334.1	-2749.2
5	ok 628	0.07	0.3	6.31e-02	19.0	19.0	10.1	10.1	-204.7	-569.3	-99.5	-1.315e+04	-2916.0	-2801.8
5	ok 685	0.07	0.4	6.55e-02	19.0	19.0	10.1	10.1	-295.6	-603.6	-76.1	-1.862e+04	-4458.4	-1911.2
5	ok 742	0.07	0.4	6.56e-02	19.0	19.0	10.1	10.1	-338.3	-621.5	-48.2	-2.167e+04	-5224.2	-589.6
5	ok 799	0.07	0.4	6.33e-02	19.0	19.0	10.1	10.1	-337.3	-619.1	-137.3	-2.181e+04	-5216.4	1082.8
5	ok 856	0.07	0.4	5.90e-02	19.0	19.0	10.1	10.1	-293.8	-591.6	-108.7	-1.899e+04	-4433.1	2325.0
5	ok 913	0.07	0.3	5.31e-02	19.0	19.0	10.1	10.1	-203.3	-544.0	-83.8	-1.359e+04	-2885.2	3071.7
5	ok 970	0.07	0.2	4.80e-02	19.0	19.0	10.1	10.1	-63.7	-495.9	-72.9	-6786.7	-494.4	2859.7
5	ok 1027	0.07	0.2	5.18e-02	19.0	19.0	10.1	10.1	1.1	-547.0	-12.3	-1172.2	3573.8	423.3
5	ok 1084	0.07	0.3	3.51e-02	19.0	19.0	10.1	10.1	-66.8	-197.8	187.7	-3122.3	994.5	-2026.8
5	ok 1141	0.07	0.3	3.15e-02	19.0	19.0	10.1	10.1	-120.7	-148.5	206.6	-4087.3	-866.6	-2236.5
5	ok 1198	0.07	0.4	3.18e-02	19.0	19.0	10.1	10.1	-143.6	-102.3	222.8	-3497.2	-1533.1	-1556.7
5	ok 1255	0.07	0.4	3.09e-02	19.0	19.0	10.1	10.1	-140.6	-56.2	236.4	-1846.4	-1578.6	-404.6
5	ok 1312	0.07	0.4	3.09e-02	19.0	19.0	10.1	10.1	-304.1	14.6	58.9	-2.020e+04	-4842.3	519.5
5	ok 1369	0.07	0.4	3.18e-02	19.0	19.0	10.1	10.1	-143.6	-102.3	-222.8	-3497.2	-1533.1	1556.7
5	ok 1426	0.07	0.3	3.15e-02	19.0	19.0	10.1	10.1	-120.7	-148.5	-206.6	-4087.3	-866.6	2236.5
5	ok 1483	0.07	0.3	3.51e-02	19.0	19.0	10.1	10.1	-66.8	-197.8	-187.7	-3122.3	994.5	2026.8
5	ok 1540	0.07	0.2	5.18e-02	19.0	19.0	10.1	10.1	1.1	-547.0	12.3	-1172.2	3573.8	-423.3
5	ok 1597	0.07	0.2	4.80e-02	19.0	19.0	10.1	10.1	-63.7	-495.9	72.9	-6786.7	-494.4	-2859.7
5	ok 1654	0.07	0.3	5.31e-02	19.0	19.0	10.1	10.1	-203.3	-544.0	83.8	-1.359e+04	-2885.2	-3071.7
5	ok 1711	0.07	0.4	5.90e-02	19.0	19.0	10.1	10.1	-293.8	-591.6	108.7	-1.899e+04	-4433.1	-2325.0
5	ok 1768	0.07	0.4	6.33e-02	19.0	19.0	10.1	10.1	-337.3	-619.1	137.3	-2.181e+04	-5216.4	-1082.8
5	ok 1825	0.07	0.4	6.56e-02	19.0	19.0	10.1	10.1	-338.3	-621.5	48.2	-2.167e+04	-5224.3	589.6
5	ok 1882	0.07	0.4	6.55e-02	19.0	19.0	10.1	10.1	-295.6	-603.6	76.1	-1.862e+04	-4458.4	1911.2
5	ok 1939	0.07	0.3	6.31e-02	19.0	19.0	10.1	10.1	-204.7	-569.3	99.5	-1.315e+04	-2916.0	2801.8
5	ok 1996	0.07	0.3	6.01e-02	19.0	19.0	10.1	10.1	-62.8	-544.1	103.8	-6549.1	-334.2	2749.2
5	ok 2053	0.07	0.3	6.84e-02	19.0	19.0	10.1	10.1	53.4	-611.1	7.5	-1437.7	4794.8	837.0
5	ok 2110	0.07	0.2	4.65e-02	19.0	19.0	10.1	10.1	-21.7	-436.3	166.4	-576.8	438.3	-1174.4
5	ok 2167	0.07	0.3	3.66e-02	19.0	19.0	10.1	10.1	-41.2	-303.3	175.6	310.6	-665.8	-855.8
5	ok 2224	0.07	0.4	3.21e-02	19.0	19.0	10.1	10.1	-196.8	-250.2	-99.0	-7514.5	-3166.7	-410.8
5	ok 2281	0.07	0.4	3.27e-02	19.0	19.0	10.1	10.1	-265.5	-268.6	-88.8	-1.242e+04	-4153.5	1445.2
5	ok 2338	0.07	0.5	3.57e-02	19.0	19.0	10.1	10.1	-305.1	-269.5	-11.0	-1.668e+04	-4620.8	3755.3
5	ok 2395	0.07	0.5	3.84e-02	19.0	19.0	10.1	10.1	-330.3	-333.9	-85.9	-1.894e+04	-4509.6	5534.6
5	ok 2452	0.07	0.5	4.02e-02	19.0	19.0	10.1	10.1	-301.8	-367.3	-92.2	-1.791e+04	-2883.9	6647.0
5	ok 2509	0.07	0.3	3.79e-02	19.0	19.0	10.1	10.1	-163.3	-362.8	-99.8	-1.141e+04	1077.3	6169.8
5	ok 2566	0.07	0.2	2.01e-02	19.0	19.0	10.1	10.1	258.7	-211.3	-1.7	-2892.5	5232.5	27.7
5	ok 2623	0.07	0.9	0.0	19.0	20.1	10.1	13.4	368.4	224.7	-145.7	849.7	2.170e+04	2013.5
5	ok 2680	0.07	0.5	1.39e-02	19.0	19.0	10.1	10.1	-121.1	139.4	-23.8	-7053.8	6282.0	-6866.1
5	ok 2683	0.07	0.6	2.72e-02	19.0	19.0	10.1	10.1	-281.8	32.8	10.2	-1.484e+04	-1812.3	-1.157e+04
5	ok 2686	0.07	0.7	3.05e-02	19.0	19.0	10.1	10.1	-316.2	-30.7	24.4	-1.886e+04	-5904.3	-1.103e+04
5	ok 2689	0.07	0.6	2.97e-02	19.0	19.0	10.1	10.1	-299.9	-74.5	77.6	-1.948e+04	-7381.8	-8679.7
5	ok 2692	0.07	0.5	2.99e-02	19.0	19.0	10.1	10.1	-251.3	-97.3	80.5	-1.760e+04	-7742.1	-4710.3
5	ok 2695	0.07	0.5	3.22e-02	19.0	19.0	10.1	10.1	-183.0	-118.8	83.2	-1.404e+04	-7000.5	-811.2
5	ok 2698	0.07	0.4	3.72e-02	19.0	19.0	10.1	10.1	-102.2	-150.3	78.0	-9542.5	-5087.9	2513.8
5	ok 2701	0.07	0.3	4.54e-02	19.0	19.0	10.1	10.1	-47.8	-282.6	-302.1	-3638.1	-286.5	2221.0
5	ok 2704	0.07	0.6	4.82e-02	19.0	19.0	10.1	10.1	1.1	-338.2	-273.7	-616.8	8514.1	-640.0
5	ok 2761	0.07	0.3	4.43e-02	19.0	19.0	10.1	10.1	-98.8	-365.9	-202.2	-3550.5	767.7	-3131.8
5	ok 2764	0.07	0.4	4.65e-02	19.0	19.0	10.1	10.1	-185.2	-354.4	-134.5	-7629.1	-2375.2	-3337.1
5	ok 2767	0.07	0.4	4.62e-02	19.0	19.0	10.1	10.1	-263.3	-347.8	-108.9	-1.111e+04	-3992.5	-2128.0
5	ok 2770	0.07	0.3	4.38e-02	19.0	19.0	10.1	10.1	-302.0	-344.9	-69.2	-1.304e+04	-4722.5	-315.8
5	ok 2773	0.07	0.4	3.94e-02	19.0	19.0	10.1	10.1	-301.2	-339.4	-105.0	-1.308e+04	-4615.6	1750.3
5	ok 2776	0.07	0.4	3.42e-02	19.0	19.0	10.1	10.1	-260.9	-328.5	-63.8	-1.122e+04	-3676.0	3313.2
5	ok 2779	0.07	0.4	3.13e-02	19.0	19.0	10.1	10.1	-180.5	-320.3	-34.2	-7776.8	-1896.6	4054.0
5	ok 2782	0.07	0.3	3.16e-02	19.0	19.0	10.1	10.1	-88.9	-318.8	39.6	-3683.2	1054.0	3275.9
5	ok 2785	0.07	0.6	2.82e-02	19.0	19.0	10.1	10.1	23.3	-257.1	53.1	-44.8	9463.8	-138.3

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
5	ok 2842	0.07	0.3	2.47e-02	19.0	19.0	10.1	10.1	-47.7	-38.4	171.9	-4236.0	2888.8	-3425.3
5	ok 2845	0.07	0.4	2.69e-02	19.0	19.0	10.1	10.1	-109.8	-34.5	218.7	-7687.2	-1440.5	-5030.6
5	ok 2848	0.07	0.4	2.85e-02	19.0	19.0	10.1	10.1	-123.8	24.8	194.7	-9354.6	-3863.8	-4148.6
5	ok 2851	0.07	0.4	2.87e-02	19.0	19.0	10.1	10.1	-128.5	20.2	250.2	-9349.3	-4648.8	-2100.9
5	ok 2854	0.07	0.4	2.87e-02	19.0	19.0	10.1	10.1	-128.5	20.2	-250.2	-9349.3	-4648.8	2100.9
5	ok 2857	0.07	0.4	2.85e-02	19.0	19.0	10.1	10.1	-123.8	24.8	-194.7	-9354.6	-3863.8	4148.6
5	ok 2860	0.07	0.4	2.69e-02	19.0	19.0	10.1	10.1	-109.8	-34.5	-218.7	-7687.2	-1440.5	5030.6
5	ok 2863	0.07	0.3	2.47e-02	19.0	19.0	10.1	10.1	-47.7	-38.4	-171.9	-4236.0	2888.8	3425.3
5	ok 2866	0.07	0.6	2.82e-02	19.0	19.0	10.1	10.1	59.0	102.2	167.4	-97.1	7334.4	3147.0
5	ok 2923	0.07	0.3	3.16e-02	19.0	19.0	10.1	10.1	-88.9	-318.8	-39.6	-3683.2	1054.0	-3275.9
5	ok 2926	0.07	0.4	3.13e-02	19.0	19.0	10.1	10.1	-180.5	-320.3	34.2	-7776.8	-1896.6	-4054.0
5	ok 2929	0.07	0.4	3.42e-02	19.0	19.0	10.1	10.1	-260.9	-328.5	63.8	-1.122e+04	-3676.0	-3313.2
5	ok 2932	0.07	0.4	3.94e-02	19.0	19.0	10.1	10.1	-301.2	-339.4	105.0	-1.308e+04	-4615.6	-1750.3
5	ok 2935	0.07	0.3	4.38e-02	19.0	19.0	10.1	10.1	-302.0	-344.9	69.2	-1.304e+04	-4722.5	315.8
5	ok 2938	0.07	0.4	4.62e-02	19.0	19.0	10.1	10.1	-263.3	-347.8	108.9	-1.111e+04	-3992.5	2128.0
5	ok 2941	0.07	0.4	4.65e-02	19.0	19.0	10.1	10.1	-185.2	-354.4	134.5	-7629.1	-2375.2	3337.1
5	ok 2944	0.07	0.3	4.43e-02	19.0	19.0	10.1	10.1	-98.8	-365.9	202.2	-3550.5	767.7	3131.8
5	ok 2947	0.07	0.6	4.82e-02	19.0	19.0	10.1	10.1	1.1	-338.2	273.7	-616.8	8514.1	640.0
5	ok 3004	0.07	0.3	4.54e-02	19.0	19.0	10.1	10.1	-47.8	-282.6	302.1	-3638.1	-286.5	-2221.1
5	ok 3007	0.07	0.4	3.72e-02	19.0	19.0	10.1	10.1	-102.2	-150.3	-78.0	-9542.5	-5087.9	-2513.8
5	ok 3010	0.07	0.5	3.22e-02	19.0	19.0	10.1	10.1	-183.0	-118.8	-83.2	-1.404e+04	-7000.5	811.2
5	ok 3013	0.07	0.5	2.99e-02	19.0	19.0	10.1	10.1	-251.3	-97.3	-80.5	-1.760e+04	-7742.1	4710.3
5	ok 3016	0.07	0.6	2.97e-02	19.0	19.0	10.1	10.1	-299.9	-74.5	-77.6	-1.948e+04	-7381.8	8679.7
5	ok 3019	0.07	0.7	3.05e-02	19.0	19.0	10.1	10.1	-316.2	-30.7	-24.4	-1.886e+04	-5904.3	1.103e+04
5	ok 3022	0.07	0.6	2.72e-02	19.0	19.0	10.1	10.1	-281.8	32.8	-10.2	-1.484e+04	-1812.3	1.157e+04
5	ok 3025	0.07	0.5	1.39e-02	19.0	19.0	10.1	10.1	-121.1	139.4	23.8	-7053.8	6282.0	6866.1
5	ok 3028	0.07	0.9	0.0	19.0	20.2	10.1	13.4	368.4	224.7	145.7	849.7	2.170e+04	-2013.5
5	ok 3085	0.08	1.0	0.0	19.0	20.5	10.1	22.3	325.1	340.5	-158.2	5573.8	3.710e+04	3044.4
5	ok 3142	0.07	0.9	1.17e-02	19.0	19.9	10.1	12.5	-51.5	305.8	-138.1	-1341.7	1.627e+04	-1537.0
5	ok 3145	0.07	0.5	2.10e-02	19.0	19.0	10.1	10.1	-228.0	246.6	-53.0	-8254.3	1882.8	-7406.8
5	ok 3148	0.07	0.7	2.50e-02	19.0	19.0	10.1	10.1	-278.3	189.0	-22.7	-1.277e+04	-5992.7	-8750.7
5	ok 3151	0.07	0.7	2.49e-02	19.0	19.0	10.1	10.1	-266.0	137.9	16.9	-1.476e+04	-9173.8	-8178.3
5	ok 3154	0.07	0.7	2.70e-02	19.0	19.0	10.1	10.1	-75.7	43.9	-235.9	-1.038e+04	-8607.2	-4218.1
5	ok 3157	0.07	0.6	2.95e-02	19.0	19.0	10.1	10.1	-76.6	1.0	-258.1	-9394.9	-7865.6	-2308.5
5	ok 3160	0.07	0.4	3.29e-02	19.0	19.0	10.1	10.1	-40.0	-27.4	-309.3	-6856.8	-5402.4	-764.5
5	ok 3163	0.07	0.4	3.60e-02	19.0	19.0	10.1	10.1	-28.5	-56.7	-315.4	-3259.9	791.8	-215.3
5	ok 3166	0.07	1.0	3.96e-02	19.0	19.8	10.1	12.3	35.1	127.5	158.7	1448.2	1.417e+04	-159.1
5	ok 3223	0.07	0.3	2.85e-02	19.0	19.0	10.1	10.1	-98.3	-166.6	-172.8	-1831.5	1294.5	-632.3
5	ok 3226	0.07	0.3	2.99e-02	19.0	19.0	10.1	10.1	-134.8	-146.3	-168.7	-3969.3	-2148.2	-255.6
5	ok 3229	0.07	0.5	2.97e-02	19.0	19.0	10.1	10.1	-185.9	-128.4	-147.1	-5777.1	-4051.8	116.1
5	ok 3232	0.07	0.5	2.77e-02	19.0	19.0	10.1	10.1	-214.1	-114.9	-110.6	-6792.3	-4815.9	516.1
5	ok 3235	0.07	0.6	2.42e-02	19.0	19.0	10.1	10.1	-46.2	152.1	-232.5	-7958.0	-5362.5	1810.5
5	ok 3238	0.07	0.5	2.11e-02	19.0	19.0	10.1	10.1	-46.0	154.4	-212.7	-7129.9	-3608.1	2535.3
5	ok 3241	0.07	0.4	1.98e-02	19.0	19.0	10.1	10.1	-44.0	144.9	-231.3	-5119.3	-269.1	1775.1
5	ok 3244	0.07	0.4	1.83e-02	19.0	19.0	10.1	10.1	-10.4	138.8	-219.4	-1984.2	6197.5	156.3
5	ok 3247	0.07	1.0	1.91e-02	19.0	19.6	10.1	12.1	26.7	72.3	228.9	1890.9	1.784e+04	4023.7
5	ok 3304	0.07	0.4	2.03e-02	19.0	19.0	10.1	10.1	-43.1	92.8	223.4	-2188.1	6482.0	79.8
5	ok 3307	0.07	0.3	2.16e-02	19.0	19.0	10.1	10.1	-69.3	110.5	224.1	-5489.6	-14.6	-1784.9
5	ok 3310	0.07	0.5	2.29e-02	19.0	19.0	10.1	10.1	-81.9	123.7	229.5	-7553.1	-3875.4	-2263.0
5	ok 3313	0.07	0.6	2.39e-02	19.0	19.0	10.1	10.1	-82.5	111.5	-253.3	-9945.3	-8011.3	339.7
5	ok 3316	0.07	0.6	2.39e-02	19.0	19.0	10.1	10.1	-82.5	111.5	253.3	-9945.3	-8011.3	-339.7
5	ok 3319	0.07	0.5	2.29e-02	19.0	19.0	10.1	10.1	-81.9	123.7	-229.5	-7553.1	-3875.4	2263.0
5	ok 3322	0.07	0.3	2.16e-02	19.0	19.0	10.1	10.1	-69.3	110.5	-224.1	-5489.6	-14.6	1784.9
5	ok 3325	0.07	0.4	2.03e-02	19.0	19.0	10.1	10.1	-15.7	94.9	-224.0	-2044.9	6560.6	-156.2
5	ok 3328	0.07	1.0	1.91e-02	19.0	19.7	10.1	12.1	26.7	72.3	-228.9	1890.9	1.784e+04	-4023.7
5	ok 3385	0.07	0.4	1.83e-02	19.0	19.0	10.1	10.1	-10.4	138.8	219.4	-1984.2	6197.5	-156.3
5	ok 3388	0.07	0.4	1.98e-02	19.0	19.0	10.1	10.1	-44.0	144.9	231.3	-5119.3	-269.1	-1775.1
5	ok 3391	0.07	0.5	2.11e-02	19.0	19.0	10.1	10.1	-46.0	154.4	212.7	-7129.9	-3608.1	-2535.3
5	ok 3394	0.07	0.6	2.42e-02	19.0	19.0	10.1	10.1	-60.1	142.3	221.3	-9612.5	-7164.5	-2123.4
5	ok 3397	0.07	0.5	2.77e-02	19.0	19.0	10.1	10.1	-214.1	-114.9	110.6	-6792.3	-4815.9	-516.1
5	ok 3400	0.07	0.5	2.97e-02	19.0	19.0	10.1	10.1	-185.9	-128.4	147.1	-5777.1	-4051.8	-116.1
5	ok 3403	0.07	0.3	2.99e-02	19.0	19.0	10.1	10.1	-134.8	-146.3	168.7	-3969.3	-2148.2	255.6
5	ok 3406	0.07	0.3	2.85e-02	19.0	19.0	10.1	10.1	-98.3	-166.6	172.8	-1831.5	1294.5	632.3
5	ok 3409	0.07	1.0	3.95e-02	19.0	20.0	10.1	12.3	-7.5	-78.7	327.6	1088.0	1.335e+04	1249.6
5	ok 3466	0.07	0.4	3.60e-02	19.0	19.0	10.1	10.1	-28.5	-56.7	315.4	-3259.9	791.8	215.3
5	ok 3469	0.07	0.4	3.29e-02	19.0	19.0	10.1	10.1	-40.0	-27.4	309.3	-6856.8	-5402.4	764.5
5	ok 3472	0.07	0.6	2.95e-02	19.0	19.0	10.1	10.1	-76.3	0.5	282.0	-9390.5	-7939.8	2238.3
…														
5	ok 6222	0.08	1.0	6.62e-02	19.0	19.0	10.1	21.7	-124.4	-698.3	131.3	-2272.9	-2.804e+04	2649.5
		x/d	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N z**	**N o**	**N zo**	**M z**	**M o**	**M zo**
Min									-338.26	-698.28	-327.89	-2.181e+04	-2.804e+04	-1.157e+04
Max		0.09	0.99	0.07	19.63	23.53	32.95	32.97	368.45	1448.57	327.89	1.097e+04	5.503e+04	1.157e+04

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
6	ok 38	0.07	6.72e-02	1.15e-02	19.0	19.0	10.1	10.1	169.3	68.7	-208.5	-389.3	700.8	-29.0
6	ok 95	0.07	0.2	3.24e-02	19.0	19.0	10.1	10.1	-177.6	-93.4	-177.8	2545.2	301.9	-1640.5
6	ok 152	0.07	0.3	4.55e-02	19.0	19.0	10.1	10.1	-399.6	-152.3	-189.5	5470.6	847.2	-106.1
6	ok 209	0.07	0.4	5.10e-02	19.0	19.0	10.1	10.1	-477.5	-180.9	-178.0	7725.5	1193.2	254.5
6	ok 266	0.07	0.5	5.80e-02	19.0	19.0	10.1	10.1	-575.3	-197.1	175.3	-2499.0	-693.4	-79.1
6	ok 323	0.07	0.5	6.00e-02	19.0	19.0	10.1	10.1	-556.6	-172.3	116.9	-2351.0	-655.8	57.6
6	ok 380	0.07	0.4	5.69e-02	19.0	19.0	10.1	10.1	-472.1	-116.9	166.5	-2024.0	-565.8	160.8
6	ok 437	0.07	0.3	5.22e-02	19.0	19.0	10.1	10.1	-318.7	-28.1	318.7	-1619.6	-458.6	208.3
6	ok 494	0.07	0.2	5.51e-02	19.0	19.0	10.1	10.1	-55.6	-243.0	-434.6	-1640.9	-427.6	184.6
6	ok 551	0.07	0.1	5.82e-02	19.0	19.0	10.1	10.1	66.8	293.5	-191.4	-1452.7	640.4	-125.2
6	ok 608	0.07	0.2	6.49e-02	19.0	19.0	10.1	10.1	-158.7	-376.0	-419.8	-1868.3	-577.8	-112.9
6	ok 665	0.07	0.3	7.52e-02	19.0	19.0	10.1	10.1	-378.7	-460.0	-394.1	-1876.3	-593.4	-104.2
6	ok 722	0.07	0.4	7.91e-02	19.0	19.0	10.1	10.1	-544.4	-529.5	-185.4	-2031.3	-629.8	-58.1
6	ok 779	0.07	0.5	7.65e-02	19.0	19.0	10.1	10.1	-623.3	-565.2	-238.8	-2133.4	-663.0	60.4
6	ok 836	0.07	0.5	6.83e-02	19.0	19.0	10.1	10.1	-622.6	-561.2	-151.1	-2105.6	-654.9	161.7
6	ok 893	0.07	0.4	5.50e-02	19.0	19.0	10.1	10.1	-541.8	-518.4	-68.0	-1922.5	-600.4	246.9
6	ok 950	0.07	0.3	5.02e-02	19.0	19.0	10.1	10.1	-380.2	-437.2	-0.1	-1650.6	-500.3	291.3
6	ok 1007	0.07	0.2	4.00e-02	19.0	19.0	10.1	10.1	-167.4	-328.0	163.2	-1439.6	-422.9	236.3
6	ok 1064	0.07	0.1	2.70e-02	19.0	19.0	10.1	10.1	59.9	236.4	-238.0	-1475.7	563.6	-142.2
6	ok 1121	0.07	0.2	3.83e-02	19.0	19.0	10.1	10.1	64.1	173.8	-373.7	-1184.9	-546.6	222.6
6	ok 1178	0.07	0.3	4.41e-02	19.0	19.0	10.1	10.1	-21.8	137.9	-410.8	-1798.2	-661.0	104.9
6	ok 1235	0.07	0.4	4.90e-02	19.0	19.0	10.1	10.1	-493.2	-97.7	-153.4	-1643.5	-458.2	-126.4
6	ok 1292	0.07	0.5	5.24e-02	19.0	19.0	10.1	10.1	-565.9	-138.0	27.9	-1809.9	-503.1	-56.7
6	ok 1349	0.07	0.5	5.24e-02	19.0	19.0	10.1	10.1	-565.9	-138.0	-27.9	-1809.9	-503.1	56.7
6	ok 1406	0.07	0.4	4.90e-02	19.0	19.0	10.1	10.1	-493.1	-98.2	32.3	-1651.3	-457.1	143.0
6	ok 1463	0.07	0.3	4.41e-02	19.0	19.0	10.1	10.1	-49.9	100.0	442.5	1909.1	100.2	245.9
6	ok 1520	0.07	0.2	3.83e-02	19.0	19.0	10.1	10.1	64.1	173.8	373.7	-1184.9	-546.6	-222.6
6	ok 1577	0.07	0.1	2.70e-02	19.0	19.0	10.1	10.1	20.2	110.7	260.8	-1512.5	546.8	159.9
6	ok 1634	0.07	0.2	4.00e-02	19.0	19.0	10.1	10.1	-90.8	107.7	329.2	-3210.6	-593.1	69.1
6	ok 1691	0.07	0.3	5.02e-02	19.0	19.0	10.1	10.1	-380.2	-437.2	0.1	-1650.6	-500.3	-291.3
6	ok 1748	0.07	0.4	5.50e-02	19.0	19.0	10.1	10.1	-541.8	-518.4	68.0	-1922.5	-600.4	-246.9
6	ok 1805	0.07	0.5	6.83e-02	19.0	19.0	10.1	10.1	-622.6	-561.2	151.1	-2105.6	-654.9	-161.7
6	ok 1862	0.07	0.5	7.65e-02	19.0	19.0	10.1	10.1	-623.3	-565.2	238.8	-2133.4	-663.0	-60.4
6	ok 1919	0.07	0.4	7.91e-02	19.0	19.0	10.1	10.1	-544.4	-529.5	185.4	-2031.3	-629.8	58.1
6	ok 1976	0.07	0.3	7.52e-02	19.0	19.0	10.1	10.1	-378.7	-460.0	394.1	-1876.3	-593.4	104.2
6	ok 2033	0.07	0.2	6.49e-02	19.0	19.0	10.1	10.1	-158.7	-376.0	419.8	-1868.3	-577.8	112.9
6	ok 2090	0.07	0.1	5.82e-02	19.0	19.0	10.1	10.1	29.0	-301.4	159.1	-1492.4	1614.5	-79.1
6	ok 2147	0.07	0.2	5.51e-02	19.0	19.0	10.1	10.1	-55.6	-243.0	434.6	-1640.9	-427.6	-184.6
6	ok 2204	0.07	0.3	5.22e-02	19.0	19.0	10.1	10.1	-47.6	-172.4	452.0	-1708.3	-442.5	-206.5
6	ok 2261	0.07	0.4	5.69e-02	19.0	19.0	10.1	10.1	-472.1	-116.9	-166.5	-2024.0	-565.8	-160.8
6	ok 2318	0.07	0.5	6.00e-02	19.0	19.0	10.1	10.1	-556.6	-172.3	-116.9	-2351.0	-655.8	-57.6
6	ok 2375	0.07	0.5	5.80e-02	19.0	19.0	10.1	10.1	-575.3	-197.1	-175.3	-2499.0	-693.4	79.1
6	ok 2432	0.07	0.4	5.10e-02	19.0	19.0	10.1	10.1	-477.5	-180.9	178.0	7725.5	1193.2	-254.5
6	ok 2489	0.07	0.3	4.55e-02	19.0	19.0	10.1	10.1	-403.6	-181.9	122.2	5526.0	920.4	53.9
6	ok 2546	0.07	0.2	3.24e-02	19.0	19.0	10.1	10.1	-177.6	-93.4	177.8	2545.2	301.9	1640.5
6	ok 2603	0.07	6.72e-02	1.15e-02	19.0	19.0	10.1	10.1	130.7	-38.1	132.2	616.5	681.0	370.0
6	ok 2660	0.07	0.4	1.76e-02	19.0	19.0	10.1	10.1	87.1	331.5	-383.2	246.3	1409.6	180.6
6	ok 2681	0.07	0.2	3.11e-02	19.0	19.0	10.1	10.1	-68.4	254.1	-383.3	-260.2	394.2	26.5
6	ok 2684	0.07	0.2	4.07e-02	19.0	19.0	10.1	10.1	-374.9	156.4	-209.4	966.9	-433.5	-3642.8
6	ok 2687	0.07	0.2	4.51e-02	19.0	19.0	10.1	10.1	-451.3	104.3	-139.5	1418.9	-855.4	-1288.9
6	ok 2690	0.07	0.1	4.99e-02	19.0	19.0	10.1	10.1	-509.2	-34.7	157.1	-1466.0	-593.9	-184.4
6	ok 2693	0.07	0.1	5.32e-02	19.0	19.0	10.1	10.1	-467.0	-33.0	191.6	-1383.4	-606.5	-29.6
6	ok 2696	0.07	0.1	5.29e-02	19.0	19.0	10.1	10.1	-415.5	-20.0	230.6	-1198.8	-496.4	151.0
6	ok 2699	0.07	0.1	4.99e-02	19.0	19.0	10.1	10.1	-49.8	7.0	-521.9	-904.7	-344.2	318.7
6	ok 2702	0.07	0.1	5.27e-02	19.0	19.0	10.1	10.1	-43.4	-53.9	-517.9	-521.9	-129.1	258.2
6	ok 2741	0.07	0.2	5.86e-02	19.0	19.0	10.1	10.1	-59.2	-79.2	-457.6	296.7	1796.3	133.3
6	ok 2762	0.07	0.2	5.40e-02	19.0	19.0	10.1	10.1	-144.6	-132.6	-388.1	-443.4	105.2	57.1
6	ok 2765	0.07	0.2	5.88e-02	19.0	19.0	10.1	10.1	-316.5	-136.9	-316.1	-894.8	-437.3	-80.5
6	ok 2768	0.07	0.1	5.94e-02	19.0	19.0	10.1	10.1	-430.6	-134.1	-274.6	-1146.8	-574.8	39.1
6	ok 2771	0.07	0.1	5.62e-02	19.0	19.0	10.1	10.1	-525.7	-130.7	-218.8	-1294.5	-595.5	170.6
6	ok 2774	0.07	0.1	4.95e-02	19.0	19.0	10.1	10.1	-524.6	-122.6	-109.0	-1276.3	-581.5	322.9
6	ok 2777	0.07	0.1	4.23e-02	19.0	19.0	10.1	10.1	-452.5	-108.4	-4.1	-1125.5	-507.4	444.9
6	ok 2780	0.07	0.1	3.70e-02	19.0	19.0	10.1	10.1	-83.2	197.4	-339.7	-1151.7	215.6	-419.1
6	ok 2783	0.07	0.2	3.16e-02	19.0	19.0	10.1	10.1	-50.6	174.8	-333.2	-654.5	392.5	-1049.2
6	ok 2822	0.07	0.3	2.84e-02	19.0	19.0	10.1	10.1	12.8	188.4	-345.6	47.3	1599.7	-941.9
6	ok 2843	0.07	0.2	3.27e-02	19.0	19.0	10.1	10.1	4.0	155.7	-431.2	679.8	-38.1	-926.4
6	ok 2846	0.07	0.1	3.97e-02	19.0	19.0	10.1	10.1	-51.3	190.8	-411.2	661.2	-627.3	-891.5
6	ok 2849	0.07	0.1	4.41e-02	19.0	19.0	10.1	10.1	-425.1	-37.9	-90.7	-963.2	-392.9	-198.5
6	ok 2852	0.07	0.1	4.51e-02	19.0	19.0	10.1	10.1	-155.4	169.5	-437.9	-486.4	-815.2	492.8
6	ok 2855	0.07	0.1	4.51e-02	19.0	19.0	10.1	10.1	-173.9	162.0	-406.2	-803.1	-705.8	914.7
6	ok 2858	0.07	0.1	4.41e-02	19.0	19.0	10.1	10.1	-425.1	-37.9	90.7	-963.2	-392.9	198.5
6	ok 2861	0.07	0.1	3.97e-02	19.0	19.0	10.1	10.1	-51.3	190.8	411.2	661.2	-627.3	891.5
6	ok 2864	0.07	0.2	3.27e-02	19.0	19.0	10.1	10.1	14.5	172.3	398.4	204.7	-691.4	-605.4

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
6	ok 2903	0.07	0.3	2.84e-02	19.0	19.0	10.1	10.1	12.8	188.4	345.6	47.3	1599.7	941.9
6	ok 2924	0.07	0.2	3.16e-02	19.0	19.0	10.1	10.1	-50.6	174.8	333.2	-654.5	392.5	1049.2
6	ok 2927	0.07	0.1	3.70e-02	19.0	19.0	10.1	10.1	-83.2	197.4	339.7	-1151.7	215.6	419.1
6	ok 2930	0.07	0.1	4.23e-02	19.0	19.0	10.1	10.1	-452.5	-108.4	4.1	-1125.5	-507.4	-444.9
6	ok 2933	0.07	0.1	4.95e-02	19.0	19.0	10.1	10.1	-524.6	-122.6	109.0	-1276.3	-581.5	-322.9
6	ok 2936	0.07	0.1	5.62e-02	19.0	19.0	10.1	10.1	-525.7	-130.7	218.8	-1294.5	-595.5	-170.6
6	ok 2939	0.07	0.1	5.94e-02	19.0	19.0	10.1	10.1	-430.6	-134.1	274.6	-1146.8	-574.8	-39.1
6	ok 2942	0.07	0.2	5.88e-02	19.0	19.0	10.1	10.1	-316.5	-136.9	316.1	-894.8	-437.3	80.5
6	ok 2945	0.07	0.2	5.40e-02	19.0	19.0	10.1	10.1	-144.6	-132.6	388.1	-443.4	105.2	-57.1
6	ok 2984	0.07	0.2	5.86e-02	19.0	19.0	10.1	10.1	-59.2	-79.2	457.6	296.7	1796.3	-133.3
6	ok 3005	0.07	0.1	5.27e-02	19.0	19.0	10.1	10.1	-43.4	-53.9	517.9	-521.9	-129.1	-258.2
6	ok 3008	0.07	0.1	4.99e-02	19.0	19.0	10.1	10.1	-49.8	7.0	521.9	-904.7	-344.2	-318.7
6	ok 3011	0.07	0.1	5.29e-02	19.0	19.0	10.1	10.1	-415.5	-20.0	-230.6	-1198.8	-496.4	-151.0
6	ok 3014	0.07	0.1	5.32e-02	19.0	19.0	10.1	10.1	-467.2	-33.1	-201.1	-1385.7	-607.3	34.2
6	ok 3017	0.07	0.1	4.99e-02	19.0	19.0	10.1	10.1	-509.2	-34.7	-157.1	-1466.0	-593.9	184.4
6	ok 3020	0.07	0.2	4.51e-02	19.0	19.0	10.1	10.1	-451.3	104.3	139.5	1418.9	-855.4	1288.9
6	ok 3023	0.07	0.2	4.07e-02	19.0	19.0	10.1	10.1	-374.9	156.4	209.4	966.9	-433.5	3642.8
6	ok 3026	0.07	0.2	3.11e-02	19.0	19.0	10.1	10.1	-188.6	223.5	221.2	764.4	866.6	3255.4
6	ok 3065	0.07	0.4	1.76e-02	19.0	19.0	10.1	10.1	87.1	331.5	383.2	246.3	1409.6	-180.6
6	ok 3122	0.07	0.8	2.01e-02	19.0	20.4	10.1	12.1	172.9	585.5	-261.3	1080.8	6298.5	1419.9
6	ok 3143	0.07	0.7	3.18e-02	19.0	19.0	10.1	10.1	-168.6	510.8	-158.2	73.3	3337.1	574.2
6	ok 3146	0.07	0.3	3.98e-02	19.0	19.0	10.1	10.1	-153.9	366.5	-459.9	-176.5	155.9	109.9
6	ok 3149	0.07	0.3	4.31e-02	19.0	19.0	10.1	10.1	-166.4	330.5	-459.4	-419.4	-185.7	25.4
6	ok 3152	0.07	0.3	4.36e-02	19.0	19.0	10.1	10.1	-139.0	300.4	-477.5	-557.0	-357.4	2.8
6	ok 3155	0.07	0.3	4.30e-02	19.0	19.0	10.1	10.1	-95.1	277.9	-515.4	-576.7	-417.6	19.6
6	ok 3158	0.07	0.3	4.40e-02	19.0	19.0	10.1	10.1	-73.8	255.4	-530.8	-485.2	-386.3	47.3
6	ok 3161	0.07	0.2	4.30e-02	19.0	19.0	10.1	10.1	-42.4	243.5	-544.7	-287.1	-231.2	51.8
6	ok 3164	0.07	0.2	4.25e-02	19.0	19.0	10.1	10.1	-7.9	249.0	-529.8	-49.8	202.5	7.2
6	ok 3203	0.07	0.5	4.34e-02	19.0	19.0	10.1	10.1	4.6	309.4	198.0	155.8	394.2	1372.7
6	ok 3224	0.07	0.2	3.80e-02	19.0	19.0	10.1	10.1	-32.3	311.7	240.8	293.1	1269.2	1429.9
6	ok 3227	0.07	0.2	4.02e-02	19.0	19.0	10.1	10.1	-216.4	152.3	-321.2	-286.5	-276.3	202.4
6	ok 3230	0.07	0.2	4.12e-02	19.0	19.0	10.1	10.1	-316.6	191.1	-249.1	-505.4	-498.8	177.0
6	ok 3233	0.07	0.3	3.98e-02	19.0	19.0	10.1	10.1	-153.3	317.6	310.6	-1563.9	-1425.3	-921.1
6	ok 3236	0.07	0.3	3.59e-02	19.0	19.0	10.1	10.1	-147.0	311.1	351.0	-1519.4	-1858.4	-571.2
6	ok 3239	0.07	0.3	3.23e-02	19.0	19.0	10.1	10.1	-117.5	293.9	361.6	-1278.0	-2075.5	30.6
6	ok 3242	0.07	0.2	2.89e-02	19.0	19.0	10.1	10.1	-70.6	269.0	354.6	-855.8	-1655.4	714.3
6	ok 3245	0.07	0.2	2.56e-02	19.0	19.0	10.1	10.1	-21.6	281.3	-330.0	312.5	1100.9	-1288.4
6	ok 3284	0.07	0.6	3.10e-02	19.0	19.0	10.1	10.1	8.8	357.3	315.6	159.8	353.6	1441.3
6	ok 3305	0.07	0.3	3.13e-02	19.0	19.0	10.1	10.1	-26.8	345.2	353.2	303.4	1253.6	1399.9
6	ok 3308	0.07	0.2	3.46e-02	19.0	19.0	10.1	10.1	-58.3	340.0	366.0	383.7	1396.1	629.7
6	ok 3311	0.07	0.3	3.75e-02	19.0	19.0	10.1	10.1	-97.0	253.2	-450.8	-1161.6	-1660.8	278.3
6	ok 3314	0.07	0.3	3.73e-02	19.0	19.0	10.1	10.1	-121.6	277.2	-430.8	-1390.2	-1442.5	774.4
6	ok 3317	0.07	0.3	3.73e-02	19.0	19.0	10.1	10.1	-125.4	293.9	-396.5	-1501.3	-1346.4	1092.0
6	ok 3320	0.07	0.3	3.75e-02	19.0	19.0	10.1	10.1	-83.6	316.3	-395.5	444.8	1367.0	146.9
6	ok 3323	0.07	0.2	3.46e-02	19.0	19.0	10.1	10.1	-58.3	340.0	-366.0	383.7	1396.1	-629.7
6	ok 3326	0.07	0.3	3.13e-02	19.0	19.0	10.1	10.1	-26.8	345.2	-353.2	303.4	1253.6	-1399.9
6	ok 3365	0.07	0.6	3.10e-02	19.0	19.0	10.1	10.1	8.8	357.3	-315.6	159.8	353.6	-1441.3
6	ok 3386	0.07	0.2	2.56e-02	19.0	19.0	10.1	10.1	-21.6	281.3	330.0	312.5	1100.9	1288.4
6	ok 3389	0.07	0.2	2.89e-02	19.0	19.0	10.1	10.1	-70.6	269.0	-354.6	-855.8	-1655.4	-714.3
6	ok 3392	0.07	0.3	3.23e-02	19.0	19.0	10.1	10.1	-117.5	293.9	-361.6	-1278.0	-2075.5	-30.6
6	ok 3395	0.07	0.3	3.59e-02	19.0	19.0	10.1	10.1	-147.0	311.1	-351.0	-1519.4	-1858.4	571.2
6	ok 3398	0.07	0.3	3.98e-02	19.0	19.0	10.1	10.1	-153.3	317.6	-310.6	-1563.9	-1425.3	921.1
6	ok 3401	0.07	0.2	4.12e-02	19.0	19.0	10.1	10.1	-105.6	331.0	-296.4	310.1	873.0	202.3
6	ok 3404	0.07	0.2	4.02e-02	19.0	19.0	10.1	10.1	-216.4	152.3	321.2	-286.5	-276.3	-202.4
6	ok 3407	0.07	0.2	3.80e-02	19.0	19.0	10.1	10.1	-32.3	311.7	-240.8	293.1	1269.2	-1429.9
6	ok 3446	0.07	0.5	4.34e-02	19.0	19.0	10.1	10.1	4.6	309.4	-198.0	155.8	394.2	-1372.7
6	ok 3467	0.07	0.2	4.25e-02	19.0	19.0	10.1	10.1	-7.9	249.0	529.8	-49.8	202.5	-7.2
6	ok 3470	0.07	0.2	4.30e-02	19.0	19.0	10.1	10.1	-42.4	243.5	544.7	-287.1	-231.2	-51.8
6	ok 3473	0.07	0.3	4.40e-02	19.0	19.0	10.1	10.1	-73.8	255.4	530.8	-485.2	-386.3	-47.3
6	ok 3476	0.07	0.3	4.30e-02	19.0	19.0	10.1	10.1	-95.1	277.9	515.4	-576.7	-417.6	-19.6
6	ok 3479	0.07	0.3	4.36e-02	19.0	19.0	10.1	10.1	-139.0	300.4	477.5	-557.0	-357.4	-2.8
6	ok 3482	0.07	0.3	4.31e-02	19.0	19.0	10.1	10.1	-166.4	330.5	459.4	-419.4	-185.7	-25.4
6	ok 3485	0.07	0.3	3.98e-02	19.0	19.0	10.1	10.1	-153.9	366.5	459.9	-176.5	155.9	-109.9
6	ok 3488	0.07	0.7	3.18e-02	19.0	19.0	10.1	10.1	-107.0	406.5	429.4	157.2	739.5	-355.4
6	ok 3527	0.07	0.8	2.01e-02	19.0	20.3	10.1	12.1	172.9	585.5	261.3	1080.8	6298.5	-1419.9
6	ok 3584	0.08	0.9	2.16e-02	19.9	21.7	11.5	15.1	79.2	662.3	-315.9	1643.2	8670.2	1666.8
6	ok 3605	0.07	0.9	3.30e-02	19.0	19.4	10.1	12.6	-91.2	619.9	-245.9	766.6	5538.5	1017.4
…														
6	ok 5837	0.07	0.9	0.2	19.0	19.0	10.1	10.1	-390.1	-2178.4	623.2	-1244.8	-1.409e+04	2751.2

	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
Min								-623.34	-2178.37	-623.20	-3210.56	-1.409e+04	-4452.29
Max	0.11	0.92	0.22	22.40	25.78	46.93	49.28	290.76	2514.73	623.20	7725.47	2.135e+04	4452.29

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
7	ok 57	0.07	0.2	2.08e-02	19.0	19.0	10.1	10.1	234.1	-219.7	-10.9	2458.7	-5100.8	344.2
7	ok 114	0.07	0.3	3.78e-02	19.0	19.0	10.1	10.1	-191.9	-367.7	85.6	1.127e+04	-927.1	4770.4
7	ok 171	0.07	0.4	3.96e-02	19.0	19.0	10.1	10.1	-328.6	-370.3	75.6	1.773e+04	3032.1	4747.7
7	ok 228	0.07	0.5	3.76e-02	19.0	19.0	10.1	10.1	-348.6	-302.4	-11.3	1.896e+04	4452.6	3351.5
7	ok 285	0.07	0.5	3.45e-02	19.0	19.0	10.1	10.1	-326.3	-262.6	-11.4	1.683e+04	4670.2	1376.4
7	ok 342	0.07	0.4	3.25e-02	19.0	19.0	10.1	10.1	-281.7	-251.4	71.7	1.278e+04	4175.5	-1266.1
7	ok 399	0.07	0.4	3.28e-02	19.0	19.0	10.1	10.1	-206.0	-224.2	82.8	7923.0	3108.9	-3149.1
7	ok 456	0.07	0.3	3.63e-02	19.0	19.0	10.1	10.1	-98.3	-178.9	23.1	3419.6	1635.4	-4432.0
7	ok 513	0.07	0.2	4.50e-02	19.0	19.0	10.1	10.1	-2.3	-399.8	-195.0	352.2	-861.0	-1996.7
7	ok 570	0.07	0.3	6.58e-02	19.0	19.0	10.1	10.1	67.9	-572.6	-33.9	1437.0	-4910.7	501.9
7	ok 627	0.07	0.3	5.85e-02	19.0	19.0	10.1	10.1	-56.7	-507.8	-123.7	6868.1	264.7	2715.8
7	ok 684	0.07	0.3	6.19e-02	19.0	19.0	10.1	10.1	-205.3	-536.2	-116.2	1.384e+04	2971.3	2963.1
7	ok 741	0.07	0.4	6.45e-02	19.0	19.0	10.1	10.1	-301.5	-573.9	-90.0	1.957e+04	4624.5	2183.4
7	ok 798	0.07	0.4	6.46e-02	19.0	19.0	10.1	10.1	-347.4	-594.6	-59.8	2.272e+04	5461.0	903.3
7	ok 855	0.07	0.4	6.21e-02	19.0	19.0	10.1	10.1	-347.6	-593.7	-149.0	2.280e+04	5480.8	-779.9
7	ok 912	0.07	0.4	5.74e-02	19.0	19.0	10.1	10.1	-303.4	-566.6	-118.3	1.977e+04	4685.0	-2065.9
7	ok 969	0.07	0.3	5.12e-02	19.0	19.0	10.1	10.1	-210.4	-518.4	-91.2	1.407e+04	3099.3	-2874.4
7	ok 1026	0.07	0.2	4.56e-02	19.0	19.0	10.1	10.1	-66.7	-468.8	-77.8	6958.0	670.9	-2728.5
7	ok 1083	0.07	0.2	4.91e-02	19.0	19.0	10.1	10.1	5.6	-515.6	-13.0	1159.9	-3546.1	-322.1
7	ok 1140	0.07	0.3	3.29e-02	19.0	19.0	10.1	10.1	-67.5	-175.5	211.8	3067.0	-1024.5	2299.1
7	ok 1197	0.07	0.3	3.35e-02	19.0	19.0	10.1	10.1	-128.6	-137.9	230.6	4321.2	918.2	2564.7
7	ok 1254	0.07	0.4	3.47e-02	19.0	19.0	10.1	10.1	-155.1	-98.7	250.0	3929.4	1648.5	1863.8
7	ok 1311	0.07	0.4	3.42e-02	19.0	19.0	10.1	10.1	-154.5	-57.4	263.8	2484.4	1742.1	699.6
7	ok 1368	0.07	0.4	3.42e-02	19.0	19.0	10.1	10.1	-154.5	-57.4	-263.8	2484.4	1742.1	-699.6
7	ok 1425	0.07	0.4	3.47e-02	19.0	19.0	10.1	10.1	-155.1	-98.7	-250.0	3929.4	1648.5	-1863.8
7	ok 1482	0.07	0.3	3.35e-02	19.0	19.0	10.1	10.1	-128.6	-137.9	-230.6	4321.2	918.2	-2564.7
7	ok 1539	0.07	0.3	3.29e-02	19.0	19.0	10.1	10.1	59.9	143.6	268.3	-3365.9	-1434.7	-2356.1
7	ok 1596	0.07	0.2	4.91e-02	19.0	19.0	10.1	10.1	5.6	-515.6	13.0	1159.9	-3546.1	322.1
7	ok 1653	0.07	0.2	4.56e-02	19.0	19.0	10.1	10.1	-66.7	-468.8	77.8	6958.0	670.9	2728.5
7	ok 1710	0.07	0.3	5.12e-02	19.0	19.0	10.1	10.1	-210.4	-518.4	91.2	1.407e+04	3099.3	2874.4
7	ok 1767	0.07	0.4	5.74e-02	19.0	19.0	10.1	10.1	-303.4	-566.6	118.3	1.977e+04	4685.0	2065.9
7	ok 1824	0.07	0.4	6.21e-02	19.0	19.0	10.1	10.1	-347.6	-593.7	149.0	2.280e+04	5480.8	779.9
7	ok 1881	0.07	0.4	6.46e-02	19.0	19.0	10.1	10.1	-347.4	-594.6	59.8	2.272e+04	5461.0	-903.3
7	ok 1938	0.07	0.4	6.45e-02	19.0	19.0	10.1	10.1	-301.5	-573.9	90.0	1.957e+04	4624.5	-2183.4
7	ok 1995	0.07	0.3	6.19e-02	19.0	19.0	10.1	10.1	-205.3	-536.2	116.2	1.384e+04	2971.3	-2963.1
7	ok 2052	0.07	0.3	5.85e-02	19.0	19.0	10.1	10.1	-56.7	-507.8	123.7	6868.2	264.7	-2715.8
7	ok 2109	0.07	0.3	6.58e-02	19.0	19.0	10.1	10.1	67.9	-572.6	33.9	1437.0	-4910.7	-501.9
7	ok 2166	0.07	0.2	4.50e-02	19.0	19.0	10.1	10.1	-2.3	-399.8	195.0	352.2	-861.0	1996.7
7	ok 2223	0.07	0.3	3.63e-02	19.0	19.0	10.1	10.1	-27.6	-274.4	203.5	-649.3	305.4	2095.5
7	ok 2280	0.07	0.4	3.28e-02	19.0	19.0	10.1	10.1	-206.0	-224.2	-82.8	7923.0	3108.9	3149.1
7	ok 2337	0.07	0.4	3.25e-02	19.0	19.0	10.1	10.1	-281.7	-251.4	-71.7	1.278e+04	4175.5	1266.1
7	ok 2394	0.07	0.5	3.45e-02	19.0	19.0	10.1	10.1	-326.3	-262.6	11.4	1.683e+04	4670.2	-1376.4
7	ok 2451	0.07	0.5	3.76e-02	19.0	19.0	10.1	10.1	-348.6	-302.4	11.3	1.896e+04	4452.6	-3351.5
7	ok 2508	0.07	0.4	3.96e-02	19.0	19.0	10.1	10.1	-328.6	-370.3	-75.6	1.773e+04	3032.1	-4747.7
7	ok 2565	0.07	0.3	3.78e-02	19.0	19.0	10.1	10.1	-192.2	-370.4	-81.9	1.123e+04	-926.4	-4826.4
7	ok 2622	0.07	0.2	2.08e-02	19.0	19.0	10.1	10.1	233.2	-219.7	9.4	2438.8	-5101.8	-283.6
7	ok 2679	0.07	0.9	1.77e-03	19.6	19.0	12.4	10.1	319.7	215.0	-157.3	-615.4	-1.982e+04	-2687.7
7	ok 2682	0.07	0.4	1.59e-02	19.0	19.0	10.1	10.1	-147.8	133.6	-38.3	7754.6	-4895.3	5597.7
7	ok 2685	0.07	0.5	2.88e-02	19.0	19.0	10.1	10.1	-306.9	31.9	-3.2	1.567e+04	2622.4	7980.0
7	ok 2688	0.07	0.6	3.16e-02	19.0	19.0	10.1	10.1	-338.5	-26.2	7.5	1.965e+04	6476.2	6811.8
7	ok 2691	0.07	0.5	3.06e-02	19.0	19.0	10.1	10.1	-319.0	-64.5	61.0	2.017e+04	7660.7	4211.2
7	ok 2694	0.07	0.4	3.07e-02	19.0	19.0	10.1	10.1	-263.5	-70.0	18.1	1.814e+04	7903.5	-201.5
7	ok 2697	0.07	0.5	3.30e-02	19.0	19.0	10.1	10.1	-188.2	-87.1	23.2	1.431e+04	6721.5	-3965.6
7	ok 2700	0.07	0.5	3.75e-02	19.0	19.0	10.1	10.1	-98.9	-120.9	69.4	9556.9	4364.4	-6133.6
7	ok 2703	0.07	0.3	4.55e-02	19.0	19.0	10.1	10.1	-16.1	-247.7	-282.9	3157.3	-1406.7	-4222.8
7	ok 2760	0.07	0.6	4.79e-02	19.0	19.0	10.1	10.1	20.5	-311.4	-298.8	434.4	-9970.7	-256.2
7	ok 2763	0.07	0.3	4.42e-02	19.0	19.0	10.1	10.1	-90.1	-344.4	-223.4	3633.2	-1254.4	2856.5
7	ok 2766	0.07	0.4	4.66e-02	19.0	19.0	10.1	10.1	-183.3	-331.1	-153.1	7887.0	2063.2	3582.8
7	ok 2769	0.07	0.4	4.65e-02	19.0	19.0	10.1	10.1	-266.6	-324.2	-125.2	1.154e+04	3882.0	2730.1
7	ok 2772	0.07	0.4	4.40e-02	19.0	19.0	10.1	10.1	-308.6	-321.7	-82.8	1.358e+04	4777.9	1115.0
7	ok 2775	0.07	0.4	3.95e-02	19.0	19.0	10.1	10.1	-309.1	-316.5	-116.7	1.364e+04	4789.1	-893.2
7	ok 2778	0.07	0.5	3.35e-02	19.0	19.0	10.1	10.1	-268.2	-306.1	-72.9	1.172e+04	3926.8	-2500.6
7	ok 2781	0.07	0.4	2.93e-02	19.0	19.0	10.1	10.1	-185.2	-298.4	-40.8	8169.3	2197.5	-3371.0
7	ok 2784	0.07	0.3	2.98e-02	19.0	19.0	10.1	10.1	-89.8	-298.4	35.8	3958.4	-711.8	-2787.9
7	ok 2841	0.07	0.6	2.67e-02	19.0	19.0	10.1	10.1	77.5	70.7	-215.2	159.3	-9067.5	3385.4
7	ok 2844	0.07	0.3	2.55e-02	19.0	19.0	10.1	10.1	-47.6	-18.1	184.8	4427.9	-2869.8	3956.6
7	ok 2847	0.07	0.4	2.79e-02	19.0	19.0	10.1	10.1	-108.7	12.0	196.2	8039.6	1674.7	5394.3
7	ok 2850	0.07	0.4	3.01e-02	19.0	19.0	10.1	10.1	-134.0	36.1	212.6	9766.4	4034.2	4465.4
7	ok 2853	0.07	0.4	3.10e-02	19.0	19.0	10.1	10.1	-141.1	27.8	271.3	9805.1	4812.5	2367.5
7	ok 2856	0.07	0.4	3.10e-02	19.0	19.0	10.1	10.1	-134.8	57.7	-225.2	9836.2	5023.3	-2147.0
7	ok 2859	0.07	0.4	3.01e-02	19.0	19.0	10.1	10.1	-134.0	36.1	-212.6	9766.4	4034.2	-4465.4
7	ok 2862	0.07	0.4	2.79e-02	19.0	19.0	10.1	10.1	-108.7	12.0	-196.2	8039.6	1674.7	-5394.3
7	ok 2865	0.07	0.3	2.55e-02	19.0	19.0	10.1	10.1	-47.6	-18.1	-184.8	4427.9	-2869.8	-3956.6
7	ok 2922	0.07	0.6	2.67e-02	19.0	19.0	10.1	10.1	59.6	111.8	191.8	103.6	-7309.6	-3027.8

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
7	ok 2925	0.07	0.3	2.98e-02	19.0	19.0	10.1	10.1	-89.8	-298.4	-35.8	3958.4	-711.8	2787.9
7	ok 2928	0.07	0.4	2.93e-02	19.0	19.0	10.1	10.1	-185.2	-298.4	40.8	8169.3	2197.5	3371.0
7	ok 2931	0.07	0.5	3.35e-02	19.0	19.0	10.1	10.1	-268.2	-306.1	72.9	1.172e+04	3926.8	2500.6
7	ok 2934	0.07	0.4	3.95e-02	19.0	19.0	10.1	10.1	-309.1	-316.5	116.7	1.364e+04	4789.1	893.2
7	ok 2937	0.07	0.4	4.40e-02	19.0	19.0	10.1	10.1	-308.6	-321.7	82.8	1.358e+04	4777.9	-1115.0
7	ok 2940	0.07	0.4	4.65e-02	19.0	19.0	10.1	10.1	-266.6	-324.2	125.2	1.154e+04	3882.0	-2730.1
7	ok 2943	0.07	0.4	4.66e-02	19.0	19.0	10.1	10.1	-183.3	-331.1	153.1	7887.0	2063.2	-3582.8
7	ok 2946	0.07	0.3	4.42e-02	19.0	19.0	10.1	10.1	-90.1	-344.4	223.4	3633.2	-1254.4	-2856.5
7	ok 3003	0.07	0.6	4.79e-02	19.0	19.0	10.1	10.1	20.5	-311.4	298.8	434.4	-9970.7	256.2
7	ok 3006	0.07	0.3	4.55e-02	19.0	19.0	10.1	10.1	-16.1	-247.7	282.9	3157.3	-1406.7	4222.8
7	ok 3009	0.07	0.5	3.75e-02	19.0	19.0	10.1	10.1	-98.9	-120.9	-69.4	9556.8	4364.4	6133.6
7	ok 3012	0.07	0.5	3.30e-02	19.0	19.0	10.1	10.1	-188.2	-87.1	-23.2	1.431e+04	6721.4	3965.6
7	ok 3015	0.07	0.4	3.07e-02	19.0	19.0	10.1	10.1	-263.5	-70.0	-18.1	1.814e+04	7903.5	201.5
7	ok 3018	0.07	0.5	3.06e-02	19.0	19.0	10.1	10.1	-319.0	-64.5	-61.0	2.017e+04	7660.7	-4211.2
7	ok 3021	0.07	0.6	3.16e-02	19.0	19.0	10.1	10.1	-338.5	-26.2	-7.5	1.965e+04	6476.2	-6811.8
7	ok 3024	0.07	0.5	2.88e-02	19.0	19.0	10.1	10.1	-306.9	31.9	3.2	1.567e+04	2622.3	-7980.0
7	ok 3027	0.07	0.4	1.59e-02	19.0	19.0	10.1	10.1	-147.8	133.6	38.3	7754.7	-4895.2	-5597.8
7	ok 3084	0.07	0.9	1.77e-03	19.6	19.0	12.4	10.1	319.7	215.0	157.3	-615.4	-1.982e+04	2687.7
7	ok 3141	0.07	1.0	3.67e-03	20.4	19.0	20.6	10.1	282.6	331.7	-171.3	-4953.2	-3.363e+04	-3845.2
7	ok 3144	0.07	0.9	1.52e-02	19.1	19.0	10.9	10.1	-84.9	293.4	-145.5	1897.6	-1.378e+04	-297.7
7	ok 3147	0.07	0.5	2.32e-02	19.0	19.0	10.1	10.1	-254.2	237.0	-50.2	8651.6	-1203.1	3274.9
7	ok 3150	0.07	0.6	2.69e-02	19.0	19.0	10.1	10.1	-266.1	151.8	-82.4	1.529e+04	1.054e+04	5090.8
7	ok 3153	0.07	0.7	2.62e-02	19.0	19.0	10.1	10.1	-265.0	110.4	-66.7	1.760e+04	1.330e+04	1772.9
7	ok 3156	0.07	0.7	2.80e-02	19.0	19.0	10.1	10.1	-205.0	103.6	-93.2	1.325e+04	9864.5	75.0
7	ok 3159	0.07	0.6	3.02e-02	19.0	19.0	10.1	10.1	-67.0	5.2	-297.0	8953.9	6645.8	-1356.5
7	ok 3162	0.07	0.4	3.34e-02	19.0	19.0	10.1	10.1	-49.2	-25.2	-326.3	6438.9	3461.6	-2361.6
7	ok 3165	0.07	0.4	3.64e-02	19.0	19.0	10.1	10.1	-36.0	-48.3	-337.1	2783.7	-3318.4	-1955.3
7	ok 3222	0.07	1.0	4.01e-02	19.1	19.0	12.2	10.1	8.5	-62.3	-349.7	-1615.2	-1.650e+04	200.5
7	ok 3225	0.07	0.3	2.91e-02	19.0	19.0	10.1	10.1	-89.7	-156.0	-189.5	1790.5	-2480.0	302.0
7	ok 3228	0.07	0.3	3.07e-02	19.0	19.0	10.1	10.1	-131.7	-132.2	-185.7	4026.9	1289.7	386.9
7	ok 3231	0.07	0.5	3.06e-02	19.0	19.0	10.1	10.1	-187.0	-112.3	-162.9	5927.5	3548.0	344.3
7	ok 3234	0.07	0.6	2.87e-02	19.0	19.0	10.1	10.1	-56.3	130.1	-262.2	9564.3	7644.1	-264.7
7	ok 3237	0.07	0.6	2.51e-02	19.0	19.0	10.1	10.1	-68.0	139.0	-241.3	9768.8	7318.5	-1836.1
7	ok 3240	0.07	0.5	2.27e-02	19.0	19.0	10.1	10.1	-67.0	136.8	-230.4	8673.5	5047.0	-3231.9
7	ok 3243	0.07	0.4	2.09e-02	19.0	19.0	10.1	10.1	-43.0	150.0	-250.8	5069.1	421.6	-1677.8
7	ok 3246	0.07	0.4	1.96e-02	19.0	19.0	10.1	10.1	-8.3	145.0	-239.7	1884.8	-6020.4	-196.7
7	ok 3303	0.07	0.9	1.94e-02	19.9	19.0	12.4	10.1	30.0	100.7	250.6	-1960.8	-1.801e+04	-3676.1
7	ok 3306	0.07	0.4	2.12e-02	19.0	19.0	10.1	10.1	-42.7	115.9	245.6	2209.2	-6316.1	258.5
7	ok 3309	0.07	0.4	2.28e-02	19.0	19.0	10.1	10.1	-69.8	129.9	246.7	5536.4	172.2	2015.0
7	ok 3312	0.07	0.5	2.49e-02	19.0	19.0	10.1	10.1	-82.9	139.5	252.7	7625.3	4066.4	2353.3
7	ok 3315	0.07	0.6	2.57e-02	19.0	19.0	10.1	10.1	-92.6	121.5	-277.1	1.022e+04	8169.3	-644.8
7	ok 3318	0.07	0.6	2.57e-02	19.0	19.0	10.1	10.1	-87.8	129.3	-254.0	1.029e+04	7811.9	-2327.7
7	ok 3321	0.07	0.5	2.49e-02	19.0	19.0	10.1	10.1	-82.9	139.5	-252.7	7625.3	4066.4	-2353.3
7	ok 3324	0.07	0.4	2.28e-02	19.0	19.0	10.1	10.1	-69.8	129.9	-246.7	5536.4	172.2	-2015.0
7	ok 3327	0.07	0.4	2.12e-02	19.0	19.0	10.1	10.1	-42.7	115.9	-245.6	2209.2	-6316.1	-258.5
7	ok 3384	0.07	0.9	1.94e-02	19.9	19.0	12.4	10.1	30.0	100.7	-250.6	-1960.8	-1.801e+04	3676.1
7	ok 3387	0.07	0.4	1.96e-02	19.0	19.0	10.1	10.1	-8.3	145.0	239.7	1884.8	-6020.4	196.7
7	ok 3390	0.07	0.4	2.09e-02	19.0	19.0	10.1	10.1	-43.0	150.0	250.8	5069.1	421.6	1677.8
7	ok 3393	0.07	0.5	2.27e-02	19.0	19.0	10.1	10.1	-67.0	136.8	230.4	8673.5	5047.0	3231.9
7	ok 3396	0.07	0.6	2.51e-02	19.0	19.0	10.1	10.1	-68.0	139.0	241.3	9768.8	7318.5	1836.1
7	ok 3399	0.07	0.6	2.87e-02	19.0	19.0	10.1	10.1	-56.2	133.9	243.8	9702.5	8214.3	175.1
7	ok 3402	0.07	0.5	3.06e-02	19.0	19.0	10.1	10.1	-187.0	-112.3	162.9	5927.5	3548.0	-344.3
7	ok 3405	0.07	0.3	3.07e-02	19.0	19.0	10.1	10.1	-131.7	-132.2	185.7	4026.9	1289.7	-386.9
7	ok 3408	0.07	0.3	2.91e-02	19.0	19.0	10.1	10.1	-89.7	-156.0	189.5	1790.5	-2480.0	-302.0
7	ok 3465	0.07	1.0	4.01e-02	19.1	19.0	12.2	10.1	8.5	-62.3	349.7	-1615.2	-1.650e+04	-200.5
7	ok 3468	0.07	0.4	3.64e-02	19.0	19.0	10.1	10.1	-36.0	-48.3	337.1	2783.7	-3318.4	1955.3
7	ok 3471	0.07	0.4	3.34e-02	19.0	19.0	10.1	10.1	-49.2	-25.2	326.3	6438.9	3461.6	2361.6
7	ok 3474	0.07	0.6	3.02e-02	19.0	19.0	10.1	10.1	-162.3	83.0	63.7	1.154e+04	8025.6	1577.7
7	ok 3477	0.07	0.7	2.80e-02	19.0	19.0	10.1	10.1	-205.5	103.2	67.3	1.326e+04	9854.9	-144.2
7	ok 3480	0.07	0.7	2.62e-02	19.0	19.0	10.1	10.1	-237.6	114.8	79.0	1.618e+04	1.303e+04	-1699.8
7	ok 3483	0.07	0.6	2.69e-02	19.0	19.0	10.1	10.1	-235.8	150.2	105.9	1.409e+04	1.071e+04	-5085.2
7	ok 3486	0.07	0.5	2.32e-02	19.0	19.0	10.1	10.1	-254.2	237.0	50.2	8651.5	-1203.1	-3274.9
7	ok 3489	0.07	0.9	1.52e-02	19.1	19.0	10.9	10.1	-84.9	293.4	145.5	1897.6	-1.378e+04	297.7
7	ok 3546	0.07	1.0	3.67e-03	20.3	19.0	20.6	10.1	282.6	331.7	171.3	-4953.2	-3.363e+04	3845.3
7	ok 3603	0.08	1.0	6.29e-03	20.3	19.0	24.5	10.1	225.7	350.3	-164.5	-7625.4	-4.137e+04	-4017.8
7	ok 3606	0.07	0.9	1.62e-02	19.5	19.0	14.6	10.1	30.8	327.2	-133.4	-2316.9	-2.062e+04	-2922.0
…														
7	ok 6278	0.07	1.0	6.61e-02	19.0	19.0	16.4	10.1	-121.0	-689.2	123.0	2066.4	2.427e+04	-2939.4

	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
Min								-348.59	-689.22	-349.68	-9215.07	-4.580e+04	-7980.00
Max		0.09	0.98	0.07	21.23	19.81	35.52	25.87	319.75	1383.81	349.68	2.280e+04	2.427e+04	7980.01

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 514	0.07	0.1	6.76e-03	19.0	19.0	10.1	10.1	139.7	16.8	93.7	1261.9	21.8	436.6
8	ok 515	0.07	0.2	2.72e-02	19.0	19.0	10.1	10.1	-211.3	-70.6	80.1	5223.2	1648.7	1473.8
8	ok 516	0.07	0.4	4.33e-02	19.0	19.0	10.1	10.1	-417.9	-136.8	70.9	1.206e+04	2827.2	2028.2
8	ok 517	0.07	0.5	4.98e-02	19.0	19.0	10.1	10.1	-461.0	-155.6	90.6	-2.730e+04	-5574.2	614.2
8	ok 518	0.07	0.6	5.07e-02	19.0	19.0	10.1	10.1	-489.0	-181.1	166.3	-3.237e+04	-6615.9	483.4
8	ok 536	0.09	1.0	2.47e-02	39.6	41.9	10.5	11.9	-205.1	-55.5	-151.9	1219.8	237.9	169.5
8	ok 537	0.09	1.0	2.27e-02	40.7	43.0	11.2	12.5	-183.3	-25.4	-108.8	1011.9	199.9	173.1
8	ok 538	0.09	1.0	2.07e-02	41.1	43.5	11.1	12.4	-167.6	-18.0	-99.9	807.7	160.6	168.0
8	ok 539	0.09	1.0	1.86e-02	41.5	43.9	11.1	12.3	-151.2	-12.3	-89.2	604.0	119.3	156.6
8	ok 540	0.09	1.0	1.64e-02	41.9	44.3	11.0	12.0	-201.9	-50.4	-22.3	-2.431e+04	-4840.1	547.9
8	ok 541	0.09	1.0	1.55e-02	42.1	44.7	10.9	12.4	-193.7	-38.0	8.9	-2.435e+04	-4841.3	487.7
8	ok 542	0.09	1.0	1.53e-02	42.2	45.0	10.5	11.8	-197.6	-51.0	-6.0	-2.427e+04	-4732.7	470.0
8	ok 543	0.09	1.0	1.67e-02	41.0	44.1	10.1	10.9	-156.4	-41.8	3.3	2.799e+04	3427.5	-155.5
8	ok 544	0.09	1.0	1.89e-02	37.6	38.9	10.4	10.5	-224.6	-31.4	46.1	2.652e+04	1509.8	-713.8
8	ok 2704	0.07	0.4	1.07e-02	19.0	19.0	10.1	10.1	109.8	314.7	131.4	1698.7	3392.4	1593.8
8	ok 2705	0.07	0.5	2.92e-02	19.0	19.0	10.1	10.1	-201.8	225.3	203.6	3468.0	3010.8	5439.8
8	ok 2706	0.07	0.5	4.19e-02	19.0	19.0	10.1	10.1	-391.1	138.7	192.2	7380.8	2715.0	7282.1
8	ok 2707	0.07	0.5	4.70e-02	19.0	19.0	10.1	10.1	-480.1	63.3	114.2	1.271e+04	3423.5	7947.2
8	ok 2708	0.07	0.6	4.80e-02	19.0	19.0	10.1	10.1	-504.1	7.9	87.1	1.885e+04	4078.5	8313.1
8	ok 2726	0.09	1.0	2.24e-02	31.4	33.4	10.1	10.8	-70.0	31.1	-215.8	1.955e+04	4161.1	455.1
8	ok 2727	0.09	1.0	2.43e-02	32.5	34.7	11.2	12.2	-48.9	37.3	-220.5	1.941e+04	4198.1	-794.9
8	ok 2728	0.09	1.0	2.24e-02	33.1	35.3	11.1	12.2	-180.5	-6.1	-97.4	739.6	136.9	299.5
8	ok 2729	0.09	1.0	2.04e-02	33.4	35.6	10.9	12.0	-169.3	-18.8	-127.8	583.2	94.8	274.5
8	ok 2730	0.09	1.0	1.83e-02	33.6	35.9	10.7	11.8	-208.2	-23.9	2.2	-1.950e+04	-4704.6	699.0
8	ok 2731	0.09	1.0	1.73e-02	33.6	36.1	10.5	12.2	-210.6	-38.4	-15.8	-1.938e+04	-4751.3	648.3
8	ok 2732	0.09	1.0	1.75e-02	33.4	36.0	10.7	12.3	-214.2	-35.6	-5.3	-1.908e+04	-3568.0	665.5
8	ok 2733	0.09	1.0	1.93e-02	32.4	35.1	10.7	11.9	-229.8	-23.5	7.4	-1.829e+04	-2488.6	1022.0
8	ok 2734	0.09	1.0	1.69e-02	32.5	34.3	10.3	10.5	-205.7	9.36e-02	-1.1	-1.813e+04	-522.3	956.5
8	ok 3166	0.08	0.9	1.51e-02	19.3	21.6	10.3	12.6	150.3	570.6	246.1	511.3	2097.1	866.7
8	ok 3167	0.07	0.9	2.96e-02	19.0	20.2	10.1	11.2	-205.9	482.7	128.8	1146.7	1648.9	1663.9
8	ok 3168	0.07	0.9	3.93e-02	19.0	19.0	10.1	10.1	-382.4	395.7	110.4	2175.7	1257.6	2495.6
8	ok 3169	0.07	0.8	4.36e-02	19.0	19.0	10.1	10.1	-462.0	318.4	59.3	3577.8	1038.7	2927.6
8	ok 3170	0.07	0.7	4.34e-02	19.0	19.0	10.1	10.1	-478.0	253.4	27.6	5125.0	955.7	3204.6
8	ok 3188	0.08	1.0	2.27e-02	22.2	23.7	10.1	10.3	-77.8	55.3	-211.3	1.587e+04	3299.1	435.4
8	ok 3189	0.08	1.0	2.28e-02	23.3	25.6	11.2	12.1	-60.2	48.1	-219.5	1.576e+04	3328.6	-1006.4
8	ok 3190	0.08	1.0	2.11e-02	23.6	25.7	11.0	11.8	-173.0	8.4	-129.5	669.9	111.1	135.1
8	ok 3191	0.08	1.0	1.93e-02	23.7	26.0	10.8	11.7	-159.5	3.1	-115.6	559.1	61.6	125.9
8	ok 3192	0.08	1.0	1.74e-02	23.8	26.1	10.6	11.6	-170.1	-9.7	-42.7	-1394.9	-311.7	96.3
8	ok 3193	0.08	1.0	1.70e-02	23.7	26.1	10.5	12.1	-194.4	-9.8	-3.9	-1.403e+04	-3053.2	883.9
8	ok 3194	0.08	1.0	1.74e-02	23.4	25.8	10.6	12.1	-201.5	-13.5	-7.9	-1.389e+04	-2878.2	919.5
8	ok 3195	0.08	1.0	1.76e-02	23.7	25.8	10.3	10.8	-204.3	-7.1	-3.9	-1.394e+04	-1395.8	966.4
8	ok 3196	0.08	1.0	1.61e-02	24.8	26.4	10.1	10.2	-187.1	1.4	-1.3	-1.440e+04	-499.8	616.0
8	ok 3628	0.08	0.9	1.87e-02	20.9	24.1	13.6	16.1	120.1	589.4	278.9	882.9	4113.2	1035.9
8	ok 3629	0.08	0.9	3.05e-02	20.5	23.4	11.5	14.4	-156.5	528.0	217.1	685.8	2509.2	2803.8
8	ok 3630	0.08	0.9	3.72e-02	19.0	22.0	10.1	13.1	-289.4	485.4	182.4	922.8	2033.7	3144.7
8	ok 3631	0.07	0.9	4.00e-02	19.0	20.4	10.1	11.5	-388.2	423.5	141.4	2578.2	1389.8	3688.3
8	ok 3632	0.07	0.9	3.91e-02	19.0	19.1	10.1	10.1	-407.5	372.0	82.5	3622.3	1032.0	3968.3
8	ok 3650	0.07	0.9	2.14e-02	19.0	19.0	10.1	10.1	-77.5	84.6	-200.4	1.139e+04	2219.7	456.1
8	ok 3651	0.07	1.0	2.16e-02	19.0	19.0	10.1	10.1	-62.1	74.0	-206.8	1.134e+04	2212.0	-1323.3
8	ok 3652	0.07	1.0	2.00e-02	19.0	19.0	10.1	10.1	-163.8	32.0	-121.0	581.1	95.9	60.1
8	ok 3653	0.07	1.0	1.83e-02	19.0	19.0	10.1	10.1	-128.9	25.8	-106.9	505.1	40.8	62.1
8	ok 3654	0.07	1.0	1.66e-02	19.0	19.0	10.1	10.1	-138.7	11.0	-70.0	441.5	-9.5	53.2
8	ok 3655	0.07	1.0	1.61e-02	19.0	19.0	10.1	10.1	-175.0	8.2	-10.7	-8992.3	-1668.3	924.2
8	ok 3656	0.07	1.0	1.64e-02	19.0	19.0	10.1	10.1	-182.1	4.3	-14.7	-1.006e+04	-1719.5	912.1
8	ok 3657	0.07	1.0	1.65e-02	19.0	19.0	10.1	10.1	-183.8	3.3	-12.0	-1.029e+04	-1165.3	812.2
8	ok 3658	0.07	1.0	1.61e-02	19.0	19.0	10.1	10.1	-180.6	1.0	-3.3	-1.042e+04	-400.4	581.0
8	ok 4090	0.08	0.9	2.20e-02	22.1	25.1	16.1	18.8	71.0	529.5	317.8	1354.3	6419.9	1190.3
8	ok 4091	0.08	0.9	3.10e-02	22.7	25.6	13.8	16.7	-147.7	511.5	286.2	1053.3	4282.8	2907.6
8	ok 4092	0.08	0.9	3.51e-02	20.9	24.5	11.9	15.5	-257.2	502.2	221.2	1050.0	3069.3	3332.4
8	ok 4093	0.08	0.9	3.53e-02	19.0	22.6	10.1	13.6	-313.5	472.9	167.6	1203.2	2021.9	3990.5
8	ok 4094	0.07	0.9	3.34e-02	19.0	20.8	10.1	11.8	-327.1	448.4	122.7	1463.9	1205.7	4459.1
8	ok 4112	0.07	0.6	1.93e-02	19.0	19.0	10.1	10.1	-173.6	86.6	-110.7	603.3	187.7	-46.2
8	ok 4113	0.07	0.7	1.96e-02	19.0	19.0	10.1	10.1	-165.7	70.5	-121.5	532.3	149.1	-9.9
8	ok 4114	0.07	0.7	1.81e-02	19.0	19.0	10.1	10.1	-155.3	54.4	-107.7	475.6	90.2	16.2
8	ok 4115	0.07	0.7	1.64e-02	19.0	19.0	10.1	10.1	-120.2	42.4	-93.6	429.5	25.1	26.2
8	ok 4116	0.07	0.7	1.48e-02	19.0	19.0	10.1	10.1	-129.1	21.9	-58.3	390.3	-32.0	20.8
8	ok 4117	0.07	0.7	1.41e-02	19.0	19.0	10.1	10.1	-140.6	15.8	-22.0	9097.9	748.9	-17.2
8	ok 4118	0.07	0.7	1.45e-02	19.0	19.0	10.1	10.1	-160.4	7.0	-18.0	-7007.0	-1017.9	887.7
8	ok 4119	0.07	0.7	1.51e-02	19.0	19.0	10.1	10.1	-167.8	2.9	-16.2	-7170.4	-704.2	787.7
8	ok 4120	0.07	0.7	1.57e-02	19.0	19.0	10.1	10.1	-175.6	0.5	-6.5	-7272.2	-422.4	-322.4
8	ok 4552	0.08	1.0	2.50e-02	21.9	25.0	18.4	21.2	17.3	435.1	270.9	1888.2	8891.7	1353.8
8	ok 4553	0.08	1.0	2.92e-02	24.0	26.3	16.3	19.3	-119.4	466.2	290.9	1389.9	6282.5	2329.0
8	ok 4554	0.08	0.9	3.13e-02	22.4	26.1	13.5	17.2	-204.8	487.9	232.1	1169.4	4208.1	3517.5
8	ok 4555	0.08	0.9	2.98e-02	19.7	23.9	10.8	15.0	-239.3	493.0	184.8	1121.8	2753.3	4242.3

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok 4556	0.08	0.9	2.64e-02	19.0	22.0	10.1	13.1	-243.3	501.7	140.8	1191.2	1445.8	4774.8
8	ok 4574	0.07	0.4	1.70e-02	19.0	19.0	10.1	10.1	-90.0	139.7	-126.7	1.232e+04	1283.9	4508.8
8	ok 4575	0.07	0.5	1.74e-02	19.0	19.0	10.1	10.1	-78.2	118.2	-133.8	1.244e+04	1273.1	-3178.4
8	ok 4576	0.07	0.5	1.61e-02	19.0	19.0	10.1	10.1	-147.1	75.0	-89.4	357.1	93.9	-1.1
8	ok 4577	0.07	0.5	1.44e-02	19.0	19.0	10.1	10.1	-111.2	57.6	-74.5	338.6	9.9	14.0
8	ok 4578	0.07	0.4	1.26e-02	19.0	19.0	10.1	10.1	-116.3	31.3	-40.9	320.8	-61.2	4.6
8	ok 4579	0.07	0.4	1.17e-02	19.0	19.0	10.1	10.1	-119.3	23.0	-16.0	6077.6	190.8	-17.8
8	ok 4580	0.07	0.4	1.24e-02	19.0	19.0	10.1	10.1	-125.7	14.7	-26.7	6179.2	196.4	-17.3
8	ok 4581	0.07	0.4	1.38e-02	19.0	19.0	10.1	10.1	-152.3	4.0	-18.3	-4702.3	-490.6	782.1
8	ok 4582	0.07	0.4	1.54e-02	19.0	19.0	10.1	10.1	-171.6	0.6	-8.8	-4761.9	-321.6	-336.5
8	ok 5014	0.08	1.0	2.63e-02	22.0	22.9	21.0	24.2	-80.2	339.3	186.4	2403.0	1.148e+04	490.0
8	ok 5015	0.08	1.0	2.62e-02	25.5	26.0	18.8	21.7	-137.4	396.2	252.7	1652.9	8040.9	2284.3
8	ok 5016	0.08	1.0	2.54e-02	23.4	26.5	14.5	18.4	-166.6	445.0	240.7	1205.0	5665.8	3439.1
8	ok 5017	0.08	0.9	2.27e-02	20.4	24.7	11.4	15.8	-173.6	504.9	168.5	995.2	3576.1	4412.6
8	ok 5018	0.08	0.9	1.83e-02	19.0	22.9	10.1	14.0	-162.4	553.5	130.7	976.4	1706.5	4995.1
8	ok 5036	0.07	0.3	1.45e-02	19.0	19.0	10.1	10.1	-92.5	169.2	-100.2	1.053e+04	1434.1	4619.1
8	ok 5037	0.07	0.3	1.51e-02	19.0	19.0	10.1	10.1	-86.4	141.2	-111.3	1.064e+04	1424.6	-3222.2
8	ok 5038	0.07	0.3	1.42e-02	19.0	19.0	10.1	10.1	-85.3	122.9	-66.6	6266.7	-2575.2	-2907.1
8	ok 5039	0.07	0.3	1.24e-02	19.0	19.0	10.1	10.1	-99.9	86.6	-15.9	2220.0	-1149.4	14.5
8	ok 5040	0.07	0.3	1.01e-02	19.0	19.0	10.1	10.1	-107.8	44.0	13.8	-2604.4	-682.3	1083.1
8	ok 5041	0.07	0.3	9.01e-03	19.0	19.0	10.1	10.1	-98.0	29.2	-5.3	-2641.0	-722.0	992.0
8	ok 5042	0.07	0.3	1.01e-02	19.0	19.0	10.1	10.1	-103.0	15.0	-12.7	3824.2	-150.1	-59.2
8	ok 5043	0.07	0.3	1.23e-02	19.0	19.0	10.1	10.1	-102.7	12.9	-9.1	2249.7	-334.0	858.1
8	ok 5044	0.07	0.3	1.52e-02	19.0	19.0	10.1	10.1	-169.5	1.9	-11.2	-2838.4	-265.2	-332.1
8	ok 5476	0.08	1.0	2.71e-02	20.8	21.3	24.2	27.3	-177.0	-38.0	189.7	1.096e+04	5.661e+04	4589.6
8	ok 5477	0.08	1.0	2.07e-02	25.9	25.6	21.0	23.6	-144.5	279.4	136.3	1431.3	1.024e+04	1740.0
8	ok 5478	0.08	1.0	1.87e-02	23.6	26.7	14.7	18.9	-131.0	400.1	130.2	756.7	7172.6	3540.6
8	ok 5479	0.08	0.9	1.63e-02	20.7	25.0	11.8	16.1	-122.6	527.7	102.6	652.7	4449.1	4656.0
8	ok 5480	0.08	0.9	1.25e-02	19.1	23.7	10.1	14.8	-58.8	634.1	82.5	681.1	1883.3	5224.7
8	ok 5498	0.07	0.4	1.25e-02	19.0	19.0	10.1	10.1	-97.3	209.5	-29.6	5503.9	-3823.5	4842.6
8	ok 5499	0.07	0.3	1.31e-02	19.0	19.0	10.1	10.1	-95.2	175.2	-60.7	5542.4	-3769.9	-3444.2
8	ok 5500	0.07	0.3	1.27e-02	19.0	19.0	10.1	10.1	-93.4	135.3	-54.3	5602.2	-3680.3	-2906.1
8	ok 5501	0.07	0.2	1.13e-02	19.0	19.0	10.1	10.1	-109.8	101.6	-6.3	1966.8	-1622.0	48.1
8	ok 5502	0.07	0.2	8.70e-03	19.0	19.0	10.1	10.1	-80.3	68.4	28.0	2011.6	-273.3	8.8
8	ok 5503	0.07	0.2	5.21e-03	19.0	19.0	10.1	10.1	-52.0	57.2	-5.3	1940.1	-270.0	-47.1
8	ok 5504	0.07	0.2	1.00e-02	19.0	19.0	10.1	10.1	-81.6	-20.1	-44.1	-1830.1	-98.9	-1203.1
8	ok 5505	0.07	0.2	1.10e-02	19.0	19.0	10.1	10.1	-79.7	10.5	-39.3	-252.5	-43.8	-180.8
8	ok 5506	0.07	0.2	1.48e-02	19.0	19.0	10.1	10.1	-165.0	16.2	-11.8	2061.0	52.5	731.5
8	ok 5930	0.08	1.0	3.29e-02	20.4	20.1	22.9	26.1	-99.0	-263.5	178.4	3376.1	6.198e+04	3437.6
8	ok 5931	0.08	1.0	2.31e-02	22.4	23.4	19.1	23.1	-89.2	-19.1	-89.9	3443.1	4.950e+04	7772.7
8	ok 5932	0.08	1.0	1.89e-02	19.7	23.9	12.1	16.6	-102.2	356.1	-116.0	113.8	8289.2	2164.1
8	ok 5933	0.08	0.9	2.03e-02	19.0	22.5	10.1	14.6	-101.7	597.9	91.9	52.3	5540.7	3148.9
8	ok 5934	0.07	0.9	2.31e-03	19.0	20.3	10.4	13.9	12.9	778.4	-83.9	254.1	3196.9	3352.1
8	ok 5952	0.07	0.4	1.79e-02	19.0	19.0	10.1	10.1	-111.7	174.1	166.9	-18.8	412.1	-46.3
8	ok 5953	0.07	0.4	1.88e-02	19.0	19.0	10.1	10.1	-112.5	125.8	166.7	-17.7	348.6	8.6
8	ok 5954	0.07	0.3	1.97e-02	19.0	19.0	10.1	10.1	-118.2	81.8	165.3	-13.8	192.4	47.3
8	ok 5955	0.07	0.3	2.28e-02	19.0	19.0	10.1	10.1	-101.7	48.8	-166.8	5.0	-103.3	71.6
8	ok 5956	0.07	0.2	1.34e-02	19.0	19.0	10.1	10.1	-123.7	47.7	69.9	41.0	-369.5	-62.5
8	ok 5957	0.07	0.1	1.19e-03	19.0	19.0	10.1	10.1	31.6	134.0	37.4	529.2	-260.3	-68.0
8	ok 5958	0.07	0.2	1.37e-02	19.0	19.0	10.1	10.1	19.4	91.4	89.5	-417.1	-10.8	-299.2
8	ok 5959	0.07	0.1	2.33e-02	19.0	19.0	10.1	10.1	-181.0	-9.0	-138.0	-10.4	-107.5	-88.7
8	ok 5960	0.07	7.03e-02	1.74e-02	19.0	19.0	10.1	10.1	-139.7	69.6	-118.2	-34.7	-91.2	-112.9

M_S		x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-504.14	-263.54	-220.49	-3.237e+04	-6615.86	-3444.18
		0.09	0.99	0.05	42.19	45.00	24.21	27.26	150.31	778.37	317.82	2.799e+04	6.198e+04	8313.11

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
9	ok 545	0.07	0.8	5.06e-02	19.0	19.0	10.1	10.1	-563.8	-52.6	-35.6	476.8	52.6	125.1
9	ok 546	0.07	0.8	5.30e-02	19.0	19.0	10.1	10.1	-585.0	-82.4	-60.7	401.4	80.4	385.1
9	ok 547	0.07	0.7	4.45e-02	19.0	19.0	10.1	10.1	-454.2	-47.8	-48.3	162.5	8.6	306.1
9	ok 548	0.07	0.5	4.08e-02	19.0	19.0	10.1	10.1	-387.0	-11.2	-171.4	-100.0	-67.5	291.4
9	ok 549	0.07	0.4	3.34e-02	19.0	19.0	10.1	10.1	-275.1	59.5	-202.1	-502.3	-195.8	238.5
9	ok 550	0.07	0.3	1.92e-02	19.0	19.0	10.1	10.1	-97.2	165.1	-208.7	-1009.0	-376.0	123.5
9	ok 551	0.07	0.2	1.44e-02	19.0	19.0	10.1	10.1	101.8	277.8	67.6	-6291.0	1210.9	-68.0
9	ok 552	0.07	0.3	4.51e-02	19.0	19.0	10.1	10.1	-96.0	-90.5	397.6	-846.1	-364.6	-187.7
9	ok 553	0.07	0.4	6.09e-02	19.0	19.0	10.1	10.1	-318.9	-222.9	391.2	-193.2	-136.5	-305.7
9	ok 554	0.07	0.5	6.83e-02	19.0	19.0	10.1	10.1	-462.0	-321.7	348.4	332.1	21.3	-347.6
9	ok 555	0.07	0.7	6.98e-02	19.0	19.0	10.1	10.1	-534.9	-382.6	297.0	695.1	122.4	-337.3
9	ok 566	0.07	0.6	5.84e-02	19.0	19.0	10.1	10.1	-647.6	-198.3	52.6	1.245e+04	2469.6	356.3
9	ok 567	0.07	0.5	6.06e-02	19.0	19.0	10.1	10.1	-567.4	-205.9	-125.9	2.225e+04	4607.1	-1798.3
9	ok 568	0.07	0.4	5.16e-02	19.0	19.0	10.1	10.1	-463.7	-142.8	-146.6	1.415e+04	3210.3	-1596.4

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
9	ok 569	0.07	0.2	3.22e-02	19.0	19.0	10.1	10.1	-217.5	-54.0	-132.2	6121.0	1056.0	-1305.7
9	ok 570	0.07	0.1	7.77e-03	19.0	19.0	10.1	10.1	143.4	-10.1	-90.6	1598.6	54.4	-529.9
9	ok 2735	0.07	0.3	4.58e-02	19.0	19.0	10.1	10.1	-496.2	24.0	40.9	292.2	-29.3	272.2
9	ok 2736	0.07	0.3	4.63e-02	19.0	19.0	10.1	10.1	-469.9	-19.9	-66.2	4694.2	533.6	-1401.4
9	ok 2737	0.07	0.3	4.24e-02	19.0	19.0	10.1	10.1	-422.0	-10.9	-151.3	-56.2	-50.0	675.2
9	ok 2738	0.07	0.2	3.91e-02	19.0	19.0	10.1	10.1	-357.0	13.1	-118.4	-184.5	-147.5	622.5
9	ok 2739	0.07	0.2	3.43e-02	19.0	19.0	10.1	10.1	-247.1	35.0	-156.4	-286.6	-273.8	481.4
9	ok 2740	0.07	0.2	2.64e-02	19.0	19.0	10.1	10.1	-95.4	43.3	-152.9	-232.4	-311.0	305.5
9	ok 2741	0.07	0.3	4.51e-02	19.0	19.0	10.1	10.1	-16.9	-55.0	292.6	239.0	719.2	3.6
9	ok 2742	0.07	0.5	5.36e-02	19.0	19.0	10.1	10.1	-114.7	-122.4	352.5	-66.6	-267.8	-406.8
9	ok 2743	0.07	0.6	6.07e-02	19.0	19.0	10.1	10.1	-277.8	-142.2	360.0	-19.3	-213.5	-567.4
9	ok 2744	0.07	0.6	6.34e-02	19.0	19.0	10.1	10.1	-407.2	-188.8	381.8	197.3	-49.8	-689.4
9	ok 2745	0.07	0.6	5.75e-02	19.0	19.0	10.1	10.1	-477.1	-206.3	240.1	411.1	78.0	-711.2
9	ok 2756	0.07	0.5	5.71e-02	19.0	19.0	10.1	10.1	-590.6	42.0	57.6	7679.9	1496.4	-951.0
9	ok 2757	0.07	0.5	5.46e-02	19.0	19.0	10.1	10.1	-571.0	91.1	22.1	5534.8	1109.7	-1094.4
9	ok 2758	0.07	0.5	4.59e-02	19.0	19.0	10.1	10.1	-476.4	184.2	-12.9	3385.4	392.3	-1167.5
9	ok 2759	0.07	0.5	3.01e-02	19.0	19.0	10.1	10.1	-221.6	211.3	-157.5	3744.2	1500.2	-5315.7
9	ok 2760	0.07	0.4	1.17e-02	19.0	19.0	10.1	10.1	126.6	313.7	-131.2	1873.9	2561.6	-2048.8
9	ok 3197	0.07	0.1	3.92e-02	19.0	19.0	10.1	10.1	-438.4	-6.3	-7.0	1668.3	116.5	-1490.6
9	ok 3198	0.07	0.2	3.70e-02	19.0	19.0	10.1	10.1	-395.1	-8.0	-60.0	1408.6	135.4	-2034.4
9	ok 3199	0.07	0.2	3.62e-02	19.0	19.0	10.1	10.1	-360.5	-0.7	-105.0	-222.3	-89.3	523.8
9	ok 3200	0.07	0.2	3.39e-02	19.0	19.0	10.1	10.1	-293.9	-6.7	-148.0	-222.1	-237.6	512.2
9	ok 3201	0.07	0.2	3.05e-02	19.0	19.0	10.1	10.1	-183.8	-19.2	-176.1	-151.9	-394.4	453.0
9	ok 3202	0.07	0.2	2.59e-02	19.0	19.0	10.1	10.1	-98.4	-45.2	-185.5	-33.8	-386.1	343.0
9	ok 3203	0.07	0.6	4.97e-02	19.0	19.0	10.1	10.1	-48.7	47.6	293.6	192.2	259.4	-35.9
9	ok 3204	0.07	0.7	5.15e-02	19.0	19.0	10.1	10.1	-132.9	-154.8	416.4	90.1	-365.1	-319.6
9	ok 3205	0.07	0.7	5.44e-02	19.0	19.0	10.1	10.1	-227.7	-127.0	383.3	78.2	-332.5	-429.8
9	ok 3206	0.07	0.7	5.50e-02	19.0	19.0	10.1	10.1	-301.8	-110.5	343.9	111.9	-138.7	-485.6
9	ok 3207	0.07	0.7	5.10e-02	19.0	19.0	10.1	10.1	-389.8	-108.4	280.1	196.2	56.6	-493.1
9	ok 3218	0.07	0.5	4.94e-02	19.0	19.0	10.1	10.1	-515.7	234.6	-1.0	4579.6	109.8	-1891.7
9	ok 3219	0.07	0.6	4.76e-02	19.0	19.0	10.1	10.1	-474.7	201.2	-192.8	7714.9	2005.9	-9756.7
9	ok 3220	0.07	0.8	4.18e-02	19.0	19.0	10.1	10.1	-435.4	390.1	-96.7	2459.1	261.7	-1857.1
9	ok 3221	0.07	0.9	3.04e-02	19.0	19.7	10.1	10.7	-215.7	481.4	-90.7	283.2	-400.4	-2817.8
9	ok 3222	0.08	0.9	1.72e-02	19.2	21.3	10.8	12.3	163.5	582.7	-190.4	192.2	384.6	-1322.6
9	ok 3659	0.07	0.2	3.25e-02	19.0	19.0	10.1	10.1	-363.9	1.9	-5.8	-154.9	89.4	-1537.7
9	ok 3660	0.07	0.2	3.05e-02	19.0	19.0	10.1	10.1	-328.3	-9.5	-50.2	-184.4	267.1	-2182.6
9	ok 3661	0.07	0.2	3.03e-02	19.0	19.0	10.1	10.1	-269.7	-8.1	-97.5	-404.5	-87.4	541.5
9	ok 3662	0.07	0.2	2.93e-02	19.0	19.0	10.1	10.1	-218.6	-26.8	-132.1	-365.4	-272.0	593.0
9	ok 3663	0.07	0.2	2.73e-02	19.0	19.0	10.1	10.1	-156.0	-55.2	-147.3	-248.5	-499.2	582.1
9	ok 3664	0.07	0.4	2.47e-02	19.0	19.0	10.1	10.1	-125.3	-94.7	-159.1	-98.1	-603.3	449.6
9	ok 3665	0.07	0.9	4.75e-02	19.0	20.1	10.1	11.2	-114.5	-174.2	371.6	9.2	-578.1	-71.9
9	ok 3666	0.07	0.9	4.68e-02	19.0	19.0	10.1	10.1	-129.4	-137.4	375.9	-5.6	-592.3	-327.4
9	ok 3667	0.07	0.9	4.74e-02	19.0	19.0	10.1	10.1	-164.4	-87.0	352.3	-38.3	-445.8	-469.2
9	ok 3668	0.07	0.8	4.67e-02	19.0	19.0	10.1	10.1	-152.7	56.9	379.6	3422.3	1621.9	1.306e+04
9	ok 3669	0.07	0.7	4.29e-02	19.0	19.0	10.1	10.1	-198.7	73.5	350.7	4573.2	609.3	1.303e+04
9	ok 3680	0.07	0.6	4.29e-02	19.0	19.0	10.1	10.1	-467.2	357.5	-57.3	3397.2	-452.6	-2330.2
9	ok 3681	0.07	0.8	4.33e-02	19.0	19.0	10.1	10.1	-442.4	417.7	-124.9	2386.1	-222.9	-2405.4
9	ok 3682	0.07	0.9	3.96e-02	19.0	20.8	10.1	11.8	-359.4	485.6	-171.9	387.1	212.3	-2295.5
9	ok 3683	0.08	0.9	3.16e-02	19.5	22.5	10.6	13.5	-170.9	536.6	-168.7	146.2	336.7	-3255.8
9	ok 3684	0.08	0.9	2.11e-02	20.6	22.8	13.3	15.7	131.8	603.2	-231.8	382.6	1736.2	-1521.6
9	ok 4121	0.07	0.2	2.64e-02	19.0	19.0	10.1	10.1	-295.6	1.8	-3.5	-824.9	141.7	-1488.7
9	ok 4122	0.07	0.2	2.48e-02	19.0	19.0	10.1	10.1	-271.8	0.4	-38.8	-745.4	209.8	-2139.8
9	ok 4123	0.07	0.2	2.48e-02	19.0	19.0	10.1	10.1	-211.0	-18.4	-80.5	-602.1	-18.0	555.5
9	ok 4124	0.07	0.2	2.47e-02	19.0	19.0	10.1	10.1	-175.6	-42.8	-106.2	-608.5	-231.2	688.2
9	ok 4125	0.07	0.3	2.38e-02	19.0	19.0	10.1	10.1	-135.1	-73.4	-114.5	-504.4	-604.0	765.6
9	ok 4126	0.07	0.5	2.25e-02	19.0	19.0	10.1	10.1	-128.0	-109.8	-125.9	-308.9	-928.6	623.4
9	ok 4127	0.08	1.0	4.09e-02	19.6	21.5	13.9	15.0	-122.3	-131.0	326.6	-105.1	-956.8	-72.5
9	ok 4128	0.08	1.0	3.95e-02	19.8	21.3	10.9	12.4	-122.5	-88.5	326.3	-195.3	-909.8	-407.9
9	ok 4129	0.07	0.9	3.88e-02	19.0	20.4	10.1	11.4	-118.1	113.6	263.7	3553.1	1.153e+04	1.094e+04
9	ok 4130	0.07	0.9	3.85e-02	19.0	19.2	10.1	10.2	-147.1	142.2	263.9	2658.5	5104.3	1.266e+04
9	ok 4131	0.07	0.7	3.67e-02	19.0	19.0	10.1	10.1	-181.7	119.1	327.5	3505.4	268.6	1.347e+04
9	ok 4142	0.07	0.6	3.65e-02	19.0	19.0	10.1	10.1	-372.9	444.3	-107.0	252.4	-1827.1	-2632.2
9	ok 4143	0.07	0.9	3.81e-02	19.0	20.2	10.1	11.2	-352.1	481.1	-177.3	147.1	-1165.1	-2651.9
9	ok 4144	0.08	0.9	3.64e-02	19.2	22.8	10.2	13.8	-288.5	502.9	-202.3	183.2	394.1	-2437.8
9	ok 4145	0.08	0.9	3.20e-02	20.9	23.9	12.8	15.8	-136.8	532.6	-243.2	298.7	1557.4	-1887.9
9	ok 4146	0.08	0.9	2.36e-02	20.7	23.1	15.6	18.0	81.3	542.5	-245.1	682.2	3258.1	-1679.1
9	ok 4583	0.07	0.2	2.13e-02	19.0	19.0	10.1	10.1	-238.0	1.6	-0.6	-829.8	11.5	-1386.5
9	ok 4584	0.07	0.2	2.02e-02	19.0	19.0	10.1	10.1	-222.9	-0.2	-27.1	-720.4	-95.0	-2016.1
9	ok 4585	0.07	0.2	1.97e-02	19.0	19.0	10.1	10.1	-160.6	-25.1	-59.2	-765.2	126.6	502.1
9	ok 4586	0.07	0.2	2.02e-02	19.0	19.0	10.1	10.1	-139.1	-51.0	-78.7	-906.5	-70.3	714.8
9	ok 4587	0.07	0.4	2.02e-02	19.0	19.0	10.1	10.1	-115.4	-80.3	-83.7	-981.2	-586.8	966.2
9	ok 4588	0.07	0.8	1.99e-02	19.0	19.0	10.1	10.1	-102.9	-109.4	-96.9	-768.7	-1377.0	965.2
9	ok 4589	0.08	1.0	3.45e-02	19.8	21.6	18.0	18.9	-75.3	-97.9	260.7	2938.1	1.348e+04	1955.5
9	ok 4590	0.08	1.0	3.34e-02	21.7	22.9	15.0	16.2	-97.8	112.8	244.0	6161.1	2.134e+04	9305.4

M_S	Nodo	x/d	verif.	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
9	ok 4591	0.08	0.9	3.26e-02	19.5	21.7	10.5	12.8	-102.1	137.7	233.4	4791.5	1.563e+04	1.112e+04
9	ok 4592	0.07	0.9	3.17e-02	19.0	19.5	10.1	10.6	-139.1	179.1	233.1	3094.2	6553.3	1.256e+04
9	ok 4593	0.07	0.7	2.95e-02	19.0	19.0	10.1	10.1	-162.6	228.4	219.6	2110.3	11.4	1.388e+04
9	ok 4604	0.07	0.7	2.91e-02	19.0	19.0	10.1	10.1	-244.3	513.2	-135.3	-189.8	-1991.4	-2828.6
9	ok 4605	0.07	0.9	3.16e-02	19.0	21.1	10.1	12.1	-235.4	519.7	-201.2	-125.0	-1109.4	-2793.0
9	ok 4606	0.08	0.9	3.22e-02	20.4	24.2	11.5	15.2	-227.3	489.6	-215.6	183.3	946.9	-2450.4
9	ok 4607	0.08	0.9	3.04e-02	21.9	24.1	15.0	18.3	-127.5	459.9	-218.2	550.5	2607.4	-1666.5
9	ok 4608	0.08	1.0	2.56e-02	19.9	22.5	17.4	20.2	26.7	452.8	-230.0	1036.6	4767.7	-1840.5
9	ok 5045	0.07	0.1	1.73e-02	19.0	19.0	10.1	10.1	-161.6	-6.3	5.7	-695.6	11.8	-1104.0
9	ok 5046	0.07	0.2	1.62e-02	19.0	19.0	10.1	10.1	-143.1	9.6	-16.0	-597.6	55.1	-1702.7
9	ok 5047	0.07	0.2	1.51e-02	19.0	19.0	10.1	10.1	-116.1	-28.5	-39.3	-785.6	332.0	345.4
9	ok 5048	0.07	0.3	1.60e-02	19.0	19.0	10.1	10.1	-106.1	-53.8	-54.8	-1080.9	219.5	580.3
9	ok 5049	0.07	0.5	1.67e-02	19.0	19.0	10.1	10.1	-97.1	-80.0	-59.2	-1504.1	-310.9	902.6
9	ok 5050	0.07	1.0	1.70e-02	19.0	19.0	10.1	10.1	-90.5	-107.9	-66.1	-1985.3	-1519.2	1278.0
9	ok 5051	0.08	1.0	3.30e-02	21.1	21.4	24.5	22.9	-77.8	-131.3	218.4	4979.7	1.701e+04	2728.1
9	ok 5052	0.08	1.0	2.78e-02	22.3	22.8	19.3	19.2	-76.4	116.7	204.2	6852.8	2.467e+04	9274.9
9	ok 5053	0.08	1.0	2.52e-02	20.6	22.6	11.6	13.6	-96.9	150.4	193.0	5420.1	1.878e+04	1.084e+04
9	ok 5054	0.07	0.9	2.31e-02	19.0	19.6	10.1	10.6	-107.9	218.2	179.2	3301.4	7917.5	1.243e+04
9	ok 5055	0.07	0.7	2.10e-02	19.0	19.0	10.1	10.1	-128.9	292.8	166.9	2000.9	146.2	1.401e+04
9	ok 5066	0.07	0.8	2.07e-02	19.0	19.0	10.1	10.1	-166.2	575.7	-132.2	-141.1	-2269.3	-2990.5
9	ok 5067	0.08	0.9	2.35e-02	19.0	21.4	10.1	12.5	-167.1	546.4	-183.2	-110.4	-1091.7	-2919.9
9	ok 5068	0.08	0.9	2.57e-02	21.2	24.3	12.2	16.2	-158.4	467.6	-203.3	200.2	1636.4	-2483.1
9	ok 5069	0.08	1.0	2.66e-02	22.0	23.8	17.4	20.3	-126.7	401.3	-194.9	760.1	3832.2	-1568.6
9	ok 5070	0.08	1.0	2.60e-02	20.2	21.3	19.5	21.8	-75.0	365.7	-185.3	1336.9	6189.9	-518.6
9	ok 5507	0.07	9.33e-02	1.45e-02	19.0	19.0	10.1	10.1	-161.2	16.0	9.8	-344.7	-41.9	-1036.1
9	ok 5508	0.07	0.1	1.27e-02	19.0	19.0	10.1	10.1	-139.4	-10.5	-14.9	31.1	135.3	-1663.0
9	ok 5509	0.07	0.2	1.32e-02	19.0	19.0	10.1	10.1	-127.6	16.0	-16.5	188.7	1388.9	-1988.8
9	ok 5510	0.07	0.4	1.31e-02	19.0	19.0	10.1	10.1	-58.1	-57.6	-35.5	-879.8	1631.3	-703.9
9	ok 5511	0.07	0.6	1.38e-02	19.0	19.0	10.1	10.1	-64.0	-69.9	-41.0	-1072.6	2975.1	-31.8
9	ok 5512	0.07	1.0	1.85e-02	19.0	19.0	12.4	12.0	-167.8	-53.6	-75.6	-5085.5	-5457.0	-1994.2
9	ok 5513	0.08	1.0	2.75e-02	21.0	21.3	27.7	23.4	-72.3	-81.8	-106.5	-1.334e+04	-2.219e+04	829.2
9	ok 5514	0.08	1.0	2.29e-02	21.2	22.2	20.6	20.8	-71.1	-70.7	129.8	3247.2	1.705e+04	3951.7
9	ok 5515	0.08	1.0	1.56e-02	20.6	22.2	12.4	14.3	-46.8	218.3	121.8	-1031.2	-468.2	-281.0
9	ok 5516	0.07	0.9	1.28e-02	19.0	20.1	10.1	11.1	-61.3	303.0	74.7	-713.9	338.4	-360.3
9	ok 5517	0.07	0.8	1.22e-02	19.0	19.0	10.1	10.1	-106.6	362.5	87.3	1943.9	478.9	1.475e+04
9	ok 5528	0.07	0.9	1.46e-02	19.9	19.6	12.3	10.7	-118.5	665.8	-117.2	35.6	-2784.4	-3472.5
9	ok 5529	0.08	0.9	1.66e-02	19.0	21.3	10.1	12.4	-108.8	583.4	-77.3	-181.3	-1267.0	-3339.8
9	ok 5530	0.08	0.9	1.76e-02	21.1	23.5	12.1	16.4	-114.5	427.0	-170.4	-78.1	2557.0	-2711.9
9	ok 5531	0.08	1.0	2.06e-02	21.3	23.1	19.3	22.3	-150.9	319.0	-138.7	662.4	5173.9	-1286.4
9	ok 5532	0.08	1.0	2.44e-02	19.8	21.7	21.8	24.4	-66.4	246.7	-119.8	1247.8	7274.3	-415.9
9	ok 5961	0.07	9.12e-02	1.71e-02	19.0	19.0	10.1	10.1	-133.8	70.9	121.0	235.9	227.1	-452.6
9	ok 5962	0.07	0.1	2.07e-02	19.0	19.0	10.1	10.1	-84.8	17.0	-172.1	-23.8	506.3	-436.8
9	ok 5963	0.07	0.1	2.17e-02	19.0	19.0	10.1	10.1	-100.6	-74.7	135.0	-2.3	360.5	-427.1
9	ok 5964	0.07	0.3	2.27e-02	19.0	19.0	10.1	10.1	-98.1	-115.9	135.5	-58.5	1961.2	-234.7
9	ok 5965	0.07	0.7	2.49e-02	19.0	19.0	10.1	10.1	-94.7	-156.3	-95.3	-132.5	3079.8	-417.4
9	ok 5966	0.07	1.0	2.95e-02	20.0	19.6	17.0	12.1	-91.0	-264.7	116.0	1459.6	1.307e+04	1629.3
9	ok 5967	0.07	1.0	3.22e-02	19.9	20.2	19.9	14.6	-146.1	-319.0	77.5	2077.1	-1.198e+04	1131.2
9	ok 5968	0.07	1.0	1.81e-02	19.7	20.7	19.8	15.8	22.9	-84.1	-39.3	-1279.8	-8170.4	973.3
9	ok 5969	0.07	1.0	6.24e-03	19.4	21.0	15.0	15.1	22.2	359.9	30.0	73.7	-748.2	-100.3
9	ok 5970	0.07	0.9	1.23e-02	19.0	19.8	10.1	10.8	-78.5	437.6	-45.0	-111.8	731.0	-323.6
9	ok 5971	0.07	0.7	1.99e-02	19.0	19.0	10.1	10.1	-110.2	521.8	-89.8	-36.0	867.9	-104.8
9	ok 5982	0.07	0.9	1.40e-02	21.0	19.8	15.5	11.5	-52.4	786.0	121.3	106.0	-3408.0	-1928.6
9	ok 5983	0.07	0.9	1.68e-02	19.0	19.8	10.2	11.0	-61.2	655.7	-107.7	-66.8	-1302.3	-1978.1
9	ok 5984	0.08	0.9	1.81e-02	19.0	21.6	10.1	14.4	-105.3	403.8	114.4	33.5	3051.7	-1519.5
9	ok 5985	0.08	1.0	2.25e-02	20.2	21.7	17.8	21.6	-48.5	202.3	-120.4	-183.1	4997.9	-1351.5
9	ok 5986	0.08	1.0	3.03e-02	19.7	21.0	20.3	22.4	-112.6	-181.5	-192.6	2898.6	4.741e+04	-3750.9
M_S		**x/d**	**verif.**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N z**	**N o**	**N zo**	**M z**	**M o**	**M zo**
									-647.63	-382.60	-245.12	-1.334e+04	-2.219e+04	-9756.67
		0.08	0.99	0.07	22.34	24.29	27.68	24.41	163.51	785.96	416.35	2.225e+04	4.741e+04	1.475e+04

L’armatura delle pareti della vasca è costituita da una maglia base di 1+1ϕ22/20 vert. e 1+1ϕ16/20 oriz., a cui si aggiungono ferri alternati ove necessario.

3.11.4 STATI LIMITE D' ESERCIZIO

TABELLA STATI LIMITE D' ESERCIZIO

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2476	0.11	0.59	0.15	82,82,96	0.0	0.0	0.0	0,0,0
2477	0.14	0.56	0.19	82,82,96	0.0	0.0	0.0	0,0,0
2478	0.17	0.58	0.22	82,82,96	0.0	0.0	0.0	0,0,0
2479	0.17	0.58	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2498	0.16	0.33	0.29	80,80,94	0.0	0.0	0.11	0,0,94
2499	0.16	0.33	0.30	80,80,94	0.0	0.0	0.12	0,0,94
2500	0.17	0.34	0.31	80,80,94	0.0	0.0	0.13	0,0,94
2501	0.17	0.34	0.31	80,80,94	0.0	0.0	0.14	0,0,94
2502	0.17	0.35	0.32	80,80,94	0.0	0.0	0.15	0,0,94
2503	0.17	0.36	0.33	80,80,94	0.0	0.0	0.16	0,0,94
2504	0.18	0.36	0.34	82,80,94	0.0	0.0	0.18	0,0,94
2505	0.19	0.34	0.35	82,80,94	0.0	0.0	0.18	0,0,94
2506	0.11	0.23	0.21	82,82,97	0.0	0.0	0.0	0,0,0
2507	0.11	0.27	0.19	82,82,97	0.0	0.0	0.0	0,0,0
2508	0.10	0.30	0.17	82,82,97	0.0	0.0	0.0	0,0,0
2509	0.10	0.32	0.14	82,82,97	0.0	0.0	0.0	0,0,0
2510	0.09	0.29	0.12	82,82,98	0.0	0.0	0.0	0,0,0
2511	0.12	0.34	0.16	82,82,94	0.0	0.0	0.0	0,0,0
2512	0.14	0.41	0.18	82,82,98	0.0	0.0	0.0	0,0,0
2513	0.11	0.34	0.15	82,82,98	0.0	0.0	0.0	0,0,0
2514	0.13	0.39	0.17	82,82,98	0.0	0.0	0.0	0,0,0
2515	0.13	0.41	0.18	82,82,96	0.0	0.0	0.0	0,0,0
2527	0.15	0.61	0.21	82,82,97	0.0	0.0	0.0	0,0,0
2528	0.15	0.60	0.20	82,82,97	0.0	0.0	0.0	0,0,0
2529	0.13	0.56	0.18	82,82,97	0.0	0.0	0.0	0,0,0
2530	0.11	0.60	0.14	82,82,97	0.0	0.0	0.0	0,0,0
2531	0.11	0.64	0.15	82,82,96	0.0	0.0	0.0	0,0,0
2532	0.02	0.42	0.07	82,82,96	0.0	0.0	0.0	0,0,0
2533	0.11	0.64	0.15	82,82,97	0.0	0.0	0.0	0,0,0
2534	0.13	0.45	0.17	82,82,96	0.0	0.0	0.0	0,0,0
2535	0.03	0.35	0.14	82,82,96	0.0	0.0	0.0	0,0,0
2536	0.12	0.40	0.17	82,82,95	0.0	0.0	0.0	0,0,0
2537	0.14	0.40	0.21	82,82,95	0.0	0.0	0.0	0,0,0
2538	0.04	0.28	0.20	82,82,96	0.0	0.0	0.0	0,0,0
2539	0.13	0.33	0.21	82,82,95	0.0	0.0	0.0	0,0,0
2540	0.14	0.35	0.22	82,82,95	0.0	0.0	0.0	0,0,0
2541	0.04	0.24	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2542	0.13	0.28	0.23	82,82,95	0.0	0.0	0.0	0,0,0
2543	0.13	0.29	0.22	82,82,95	0.0	0.0	0.0	0,0,0
2544	0.03	0.21	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2545	0.11	0.26	0.23	82,82,95	0.0	0.0	0.0	0,0,0
2546	0.11	0.25	0.21	81,82,95	0.0	0.0	0.0	0,0,0
2547	0.03	0.18	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2548	0.11	0.30	0.22	81,82,95	0.0	0.0	0.0	0,0,0
2549	0.09	0.28	0.18	82,82,95	0.0	0.0	0.0	0,0,0
2550	0.03	0.16	0.20	82,82,96	0.0	0.0	0.0	0,0,0
2551	0.10	0.34	0.18	82,82,95	0.0	0.0	0.0	0,0,0
2552	0.08	0.28	0.13	82,82,95	0.0	0.0	0.0	0,0,0
2553	0.02	0.15	0.15	82,82,96	0.0	0.0	0.0	0,0,0
2554	0.09	0.33	0.13	82,82,97	0.0	0.0	0.0	0,0,0
2555	0.10	0.28	0.13	82,82,96	0.0	0.0	0.0	0,0,0
2556	0.01	0.14	0.09	82,82,96	0.0	0.0	0.0	0,0,0
2557	0.10	0.31	0.14	82,82,97	0.0	0.0	0.0	0,0,0
2558	0.02	0.34	0.10	80,82,94	0.0	0.0	0.0	0,0,0
2559	0.02	0.28	0.19	82,82,94	0.0	0.0	0.0	0,0,0
2560	0.03	0.20	0.26	81,82,94	0.0	0.0	0.0	0,0,0
2561	0.03	0.13	0.31	82,82,95	0.0	0.0	0.0	0,0,0
2580	0.02	0.05	0.28	82,82,94	0.0	0.0	0.09	0,0,94
2581	0.02	0.04	0.27	82,82,94	0.0	0.0	0.09	0,0,94
2582	0.02	0.04	0.27	80,82,94	0.0	0.0	0.09	0,0,94
2583	0.02	0.03	0.27	80,82,94	0.0	0.0	0.09	0,0,94
2584	0.02	0.03	0.27	80,78,94	0.0	0.0	0.10	0,0,94
2585	0.02	0.03	0.28	80,78,94	0.0	0.0	0.10	0,0,94
2586	0.01	0.02	0.28	80,78,94	0.0	0.0	0.11	0,0,94
2587	0.01	0.01	0.29	80,78,94	0.0	0.0	0.12	0,0,94
2588	0.03	0.02	0.38	82,82,95	0.0	0.0	0.29	0,0,95

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2589	0.02	0.02	0.35	82,80,95	0.0	0.0	0.23	0,0,95
2590	0.02	0.04	0.29	82,82,95	0.0	0.0	0.0	0,0,0
2591	0.01	0.08	0.23	81,82,95	0.0	0.0	0.0	0,0,0
2592	9.90e-03	0.14	0.17	81,82,94	0.0	0.0	0.0	0,0,0
2593	7.67e-03	0.20	0.10	82,82,94	0.0	0.0	0.0	0,0,0
2594	0.01	0.27	0.10	82,82,94	0.0	0.0	0.0	0,0,0
2595	0.02	0.23	0.17	82,82,94	0.0	0.0	0.0	0,0,0
2596	0.03	0.23	0.24	82,82,95	0.0	0.0	0.0	0,0,0
2597	0.03	0.18	0.30	82,82,95	0.0	0.0	0.0	0,0,0
2609	0.04	0.11	0.31	82,82,95	0.0	0.0	0.0	0,0,0
2610	0.03	0.19	0.26	82,82,95	0.0	0.0	0.0	0,0,0
2611	0.03	0.28	0.18	82,82,95	0.0	0.0	0.0	0,0,0
2612	0.02	0.33	0.09	80,82,94	0.0	0.0	0.0	0,0,0
2613	0.10	0.31	0.14	82,82,96	0.0	0.0	0.0	0,0,0
2614	0.02	0.16	0.08	80,82,96	0.0	0.0	0.0	0,0,0
2615	0.10	0.33	0.14	82,82,97	0.0	0.0	0.0	0,0,0
2616	0.09	0.21	0.13	82,82,94	0.0	0.0	0.0	0,0,0
2617	0.02	0.14	0.15	80,82,96	0.0	0.0	0.0	0,0,0
2618	0.09	0.21	0.14	82,82,94	0.0	0.0	0.0	0,0,0
2619	0.09	0.23	0.18	82,82,94	0.0	0.0	0.0	0,0,0
2620	0.02	0.16	0.20	81,82,96	0.0	0.0	0.0	0,0,0
2621	0.09	0.24	0.19	82,82,94	0.0	0.0	0.0	0,0,0
2622	0.08	0.20	0.21	82,82,94	0.0	0.0	0.0	0,0,0
2623	0.02	0.17	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2624	0.09	0.23	0.22	82,82,94	0.0	0.0	0.0	0,0,0
2625	0.08	0.22	0.21	81,82,94	0.0	0.0	0.0	0,0,0
2626	0.02	0.17	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2627	0.08	0.23	0.22	81,82,94	0.0	0.0	0.0	0,0,0
2628	0.09	0.26	0.21	82,82,94	0.0	0.0	0.0	0,0,0
2629	0.02	0.17	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2630	0.09	0.27	0.22	82,82,94	0.0	0.0	0.0	0,0,0
2631	0.09	0.30	0.19	82,82,94	0.0	0.0	0.0	0,0,0
2632	0.02	0.16	0.20	82,82,96	0.0	0.0	0.0	0,0,0
2633	0.09	0.30	0.19	82,82,94	0.0	0.0	0.0	0,0,0
2634	0.09	0.28	0.14	82,82,94	0.0	0.0	0.0	0,0,0
2635	0.01	0.16	0.15	82,82,96	0.0	0.0	0.0	0,0,0
2636	0.08	0.29	0.14	82,82,94	0.0	0.0	0.0	0,0,0
2637	0.10	0.33	0.13	82,82,96	0.0	0.0	0.0	0,0,0
2638	0.01	0.16	0.08	82,82,96	0.0	0.0	0.0	0,0,0
2639	0.09	0.33	0.13	82,82,97	0.0	0.0	0.0	0,0,0
2640	0.01	0.30	0.08	81,82,94	0.0	0.0	0.0	0,0,0
2641	0.02	0.25	0.17	82,82,94	0.0	0.0	0.0	0,0,0
2642	0.02	0.18	0.25	82,82,94	0.0	0.0	0.0	0,0,0
2643	0.03	0.12	0.30	82,82,94	0.0	0.0	0.0	0,0,0
2662	0.02	0.04	0.26	82,82,94	0.0	0.0	0.06	0,0,94
2663	0.02	0.03	0.25	82,82,94	0.0	0.0	0.06	0,0,94
2664	0.02	0.03	0.25	82,82,94	0.0	0.0	0.06	0,0,94
2665	0.02	0.02	0.25	82,82,94	0.0	0.0	0.06	0,0,94
2666	0.02	0.02	0.25	82,82,94	0.0	0.0	0.06	0,0,94
2667	0.01	0.01	0.25	82,82,94	0.0	0.0	0.07	0,0,94
2668	0.01	0.02	0.26	82,82,94	0.0	0.0	0.07	0,0,94
2669	0.02	0.02	0.27	82,82,94	0.0	0.0	0.09	0,0,94
2670	0.02	0.02	0.36	81,82,95	0.0	0.0	0.24	0,0,95
2671	0.02	0.01	0.33	81,81,95	0.0	0.0	0.19	0,0,95
2672	0.01	0.02	0.28	81,82,95	0.0	0.0	0.0	0,0,0
2673	0.01	0.05	0.22	81,82,95	0.0	0.0	0.0	0,0,0
2674	8.22e-03	0.08	0.15	82,82,95	0.0	0.0	0.0	0,0,0
2675	7.05e-03	0.11	0.07	82,82,95	0.0	0.0	0.0	0,0,0
2676	0.01	0.16	0.08	82,82,95	0.0	0.0	0.0	0,0,0
2677	0.02	0.14	0.16	82,82,94	0.0	0.0	0.0	0,0,0
2678	0.02	0.14	0.23	82,82,94	0.0	0.0	0.0	0,0,0
2679	0.02	0.12	0.29	82,82,94	0.0	0.0	0.0	0,0,0
2691	0.02	0.11	0.29	82,82,95	0.0	0.0	0.0	0,0,0
2692	0.02	0.18	0.24	82,82,95	0.0	0.0	0.0	0,0,0
2693	0.02	0.25	0.17	82,82,95	0.0	0.0	0.0	0,0,0
2694	0.01	0.31	0.08	81,82,95	0.0	0.0	0.0	0,0,0
2695	0.10	0.33	0.13	82,82,96	0.0	0.0	0.0	0,0,0
2696	0.01	0.17	0.08	82,82,96	0.0	0.0	0.0	0,0,0
2697	0.10	0.35	0.13	82,82,97	0.0	0.0	0.0	0,0,0
2698	0.08	0.25	0.12	82,82,95	0.0	0.0	0.0	0,0,0
2699	0.02	0.17	0.15	81,82,96	0.0	0.0	0.0	0,0,0
2700	0.09	0.27	0.13	82,82,95	0.0	0.0	0.0	0,0,0
2701	0.09	0.27	0.17	82,82,95	0.0	0.0	0.0	0,0,0
2702	0.02	0.18	0.20	82,82,96	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2703	0.09	0.29	0.17	82,82,95	0.0	0.0	0.0	0,0,0
2704	0.09	0.25	0.20	82,82,95	0.0	0.0	0.0	0,0,0
2705	0.02	0.18	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2706	0.09	0.27	0.20	82,82,95	0.0	0.0	0.0	0,0,0
2707	0.08	0.23	0.20	81,82,95	0.0	0.0	0.0	0,0,0
2708	0.02	0.18	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2709	0.08	0.24	0.20	81,82,95	0.0	0.0	0.0	0,0,0
2710	0.09	0.25	0.20	82,82,95	0.0	0.0	0.0	0,0,0
2711	0.02	0.18	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2712	0.09	0.27	0.20	82,82,95	0.0	0.0	0.0	0,0,0
2713	0.09	0.27	0.17	82,82,95	0.0	0.0	0.0	0,0,0
2714	0.02	0.18	0.20	82,82,96	0.0	0.0	0.0	0,0,0
2715	0.09	0.29	0.17	82,82,95	0.0	0.0	0.0	0,0,0
2716	0.08	0.25	0.12	82,82,95	0.0	0.0	0.0	0,0,0
2717	0.02	0.17	0.15	81,82,96	0.0	0.0	0.0	0,0,0
2718	0.09	0.27	0.13	82,82,95	0.0	0.0	0.0	0,0,0
2719	0.10	0.33	0.13	82,82,96	0.0	0.0	0.0	0,0,0
2720	0.01	0.17	0.08	82,82,96	0.0	0.0	0.0	0,0,0
2721	0.10	0.35	0.13	82,82,97	0.0	0.0	0.0	0,0,0
2722	0.01	0.30	0.08	81,82,94	0.0	0.0	0.0	0,0,0
2723	0.02	0.25	0.17	82,82,94	0.0	0.0	0.0	0,0,0
2724	0.02	0.18	0.25	82,82,94	0.0	0.0	0.0	0,0,0
2725	0.03	0.12	0.30	82,82,94	0.0	0.0	0.0	0,0,0
2744	0.02	0.04	0.26	82,82,94	0.0	0.0	0.06	0,0,94
2745	0.02	0.03	0.25	82,82,94	0.0	0.0	0.06	0,0,94
2746	0.02	0.03	0.25	82,82,94	0.0	0.0	0.06	0,0,94
2747	0.02	0.03	0.25	82,82,94	0.0	0.0	0.06	0,0,94
2748	0.02	0.02	0.25	82,82,94	0.0	0.0	0.06	0,0,94
2749	0.01	0.01	0.25	82,82,94	0.0	0.0	0.07	0,0,94
2750	0.01	0.02	0.26	82,82,94	0.0	0.0	0.07	0,0,94
2751	0.02	0.02	0.27	82,82,94	0.0	0.0	0.09	0,0,94
2752	0.02	0.02	0.36	81,82,95	0.0	0.0	0.24	0,0,95
2753	0.02	0.01	0.33	81,81,95	0.0	0.0	0.19	0,0,95
2754	0.01	0.02	0.28	81,82,95	0.0	0.0	0.0	0,0,0
2755	0.01	0.05	0.22	81,82,95	0.0	0.0	0.0	0,0,0
2756	8.22e-03	0.08	0.15	82,82,95	0.0	0.0	0.0	0,0,0
2757	7.05e-03	0.11	0.07	82,82,95	0.0	0.0	0.0	0,0,0
2758	0.01	0.16	0.08	82,82,95	0.0	0.0	0.0	0,0,0
2759	0.02	0.14	0.16	82,82,94	0.0	0.0	0.0	0,0,0
2760	0.02	0.14	0.23	82,82,94	0.0	0.0	0.0	0,0,0
2761	0.02	0.12	0.29	82,82,94	0.0	0.0	0.0	0,0,0
2773	0.02	0.11	0.29	82,82,95	0.0	0.0	0.0	0,0,0
2774	0.02	0.18	0.24	82,82,95	0.0	0.0	0.0	0,0,0
2775	0.02	0.25	0.17	82,82,95	0.0	0.0	0.0	0,0,0
2776	0.01	0.31	0.08	81,82,95	0.0	0.0	0.0	0,0,0
2777	0.10	0.33	0.13	82,82,96	0.0	0.0	0.0	0,0,0
2778	0.01	0.16	0.08	82,82,96	0.0	0.0	0.0	0,0,0
2779	0.09	0.33	0.13	82,82,97	0.0	0.0	0.0	0,0,0
2780	0.09	0.28	0.14	82,82,94	0.0	0.0	0.0	0,0,0
2781	0.01	0.16	0.15	82,82,96	0.0	0.0	0.0	0,0,0
2782	0.08	0.29	0.14	82,82,94	0.0	0.0	0.0	0,0,0
2783	0.09	0.30	0.19	82,82,94	0.0	0.0	0.0	0,0,0
2784	0.02	0.16	0.20	82,82,96	0.0	0.0	0.0	0,0,0
2785	0.09	0.30	0.19	82,82,94	0.0	0.0	0.0	0,0,0
2786	0.09	0.26	0.21	82,82,94	0.0	0.0	0.0	0,0,0
2787	0.02	0.17	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2788	0.09	0.27	0.22	82,82,94	0.0	0.0	0.0	0,0,0
2789	0.08	0.22	0.21	81,82,94	0.0	0.0	0.0	0,0,0
2790	0.02	0.17	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2791	0.08	0.23	0.22	81,82,94	0.0	0.0	0.0	0,0,0
2792	0.08	0.20	0.21	82,82,94	0.0	0.0	0.0	0,0,0
2793	0.02	0.17	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2794	0.09	0.23	0.22	82,82,94	0.0	0.0	0.0	0,0,0
2795	0.09	0.23	0.18	82,82,94	0.0	0.0	0.0	0,0,0
2796	0.02	0.16	0.20	81,82,96	0.0	0.0	0.0	0,0,0
2797	0.09	0.24	0.19	82,82,94	0.0	0.0	0.0	0,0,0
2798	0.09	0.21	0.13	82,82,94	0.0	0.0	0.0	0,0,0
2799	0.02	0.14	0.15	80,82,96	0.0	0.0	0.0	0,0,0
2800	0.09	0.21	0.14	82,82,94	0.0	0.0	0.0	0,0,0
2801	0.10	0.31	0.14	82,82,96	0.0	0.0	0.0	0,0,0
2802	0.02	0.16	0.08	80,82,96	0.0	0.0	0.0	0,0,0
2803	0.10	0.33	0.14	82,82,97	0.0	0.0	0.0	0,0,0
2804	0.02	0.34	0.10	80,82,94	0.0	0.0	0.0	0,0,0
2805	0.02	0.28	0.19	82,82,94	0.0	0.0	0.0	0,0,0

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
2806	0.03	0.20	0.26	81,82,94	0.0	0.0	0.0	0,0,0
2807	0.03	0.13	0.31	82,82,95	0.0	0.0	0.0	0,0,0
2826	0.02	0.05	0.28	82,82,94	0.0	0.0	0.09	0,0,94
2827	0.02	0.04	0.28	82,82,94	0.0	0.0	0.09	0,0,94
2828	0.02	0.04	0.27	80,82,94	0.0	0.0	0.09	0,0,94
2829	0.02	0.03	0.27	80,82,94	0.0	0.0	0.09	0,0,94
2830	0.02	0.03	0.27	80,78,94	0.0	0.0	0.10	0,0,94
2831	0.02	0.02	0.28	80,78,94	0.0	0.0	0.10	0,0,94
2832	0.01	0.02	0.28	80,78,94	0.0	0.0	0.11	0,0,94
2833	0.01	0.01	0.29	80,78,94	0.0	0.0	0.12	0,0,94
2834	0.03	0.02	0.38	82,82,95	0.0	0.0	0.29	0,0,95
2835	0.02	0.02	0.35	82,80,95	0.0	0.0	0.23	0,0,95
2836	0.02	0.04	0.29	82,82,95	0.0	0.0	0.0	0,0,0
2837	0.01	0.08	0.23	81,82,95	0.0	0.0	0.0	0,0,0
2838	9.90e-03	0.14	0.17	81,82,94	0.0	0.0	0.0	0,0,0
2839	7.67e-03	0.20	0.10	82,82,94	0.0	0.0	0.0	0,0,0
2840	0.01	0.27	0.10	82,82,94	0.0	0.0	0.0	0,0,0
2841	0.02	0.23	0.17	82,82,94	0.0	0.0	0.0	0,0,0
2842	0.03	0.23	0.24	82,82,95	0.0	0.0	0.0	0,0,0
2843	0.03	0.18	0.30	82,82,95	0.0	0.0	0.0	0,0,0
2855	0.04	0.11	0.31	82,82,95	0.0	0.0	0.0	0,0,0
2856	0.03	0.19	0.26	82,82,95	0.0	0.0	0.0	0,0,0
2857	0.03	0.28	0.18	82,82,95	0.0	0.0	0.0	0,0,0
2858	0.02	0.33	0.09	80,82,94	0.0	0.0	0.0	0,0,0
2859	0.10	0.28	0.13	82,82,96	0.0	0.0	0.0	0,0,0
2860	0.01	0.14	0.09	82,82,96	0.0	0.0	0.0	0,0,0
2861	0.10	0.31	0.14	82,82,97	0.0	0.0	0.0	0,0,0
2862	0.08	0.28	0.13	82,82,95	0.0	0.0	0.0	0,0,0
2863	0.02	0.15	0.15	82,82,96	0.0	0.0	0.0	0,0,0
2864	0.09	0.33	0.13	82,82,97	0.0	0.0	0.0	0,0,0
2865	0.09	0.28	0.18	82,82,95	0.0	0.0	0.0	0,0,0
2866	0.03	0.16	0.20	82,82,96	0.0	0.0	0.0	0,0,0
2867	0.10	0.34	0.18	82,82,95	0.0	0.0	0.0	0,0,0
2868	0.11	0.25	0.21	81,82,95	0.0	0.0	0.0	0,0,0
2869	0.03	0.18	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2870	0.11	0.30	0.22	81,82,95	0.0	0.0	0.0	0,0,0
2871	0.13	0.29	0.22	82,82,95	0.0	0.0	0.0	0,0,0
2872	0.03	0.21	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2873	0.11	0.26	0.23	82,82,95	0.0	0.0	0.0	0,0,0
2874	0.14	0.35	0.22	82,82,95	0.0	0.0	0.0	0,0,0
2875	0.04	0.24	0.23	82,82,96	0.0	0.0	0.0	0,0,0
2876	0.13	0.28	0.23	82,82,95	0.0	0.0	0.0	0,0,0
2877	0.14	0.40	0.21	82,82,95	0.0	0.0	0.0	0,0,0
2878	0.04	0.28	0.20	82,82,96	0.0	0.0	0.0	0,0,0
2879	0.13	0.33	0.21	82,82,95	0.0	0.0	0.0	0,0,0
2880	0.13	0.45	0.17	82,82,96	0.0	0.0	0.0	0,0,0
2881	0.03	0.35	0.14	82,82,96	0.0	0.0	0.0	0,0,0
2882	0.12	0.40	0.17	82,82,95	0.0	0.0	0.0	0,0,0
2883	0.11	0.64	0.15	82,82,96	0.0	0.0	0.0	0,0,0
2884	0.02	0.42	0.07	82,82,96	0.0	0.0	0.0	0,0,0
2885	0.11	0.64	0.15	82,82,97	0.0	0.0	0.0	0,0,0
2886	0.11	0.59	0.15	82,82,96	0.0	0.0	0.0	0,0,0
…								
6150	0.10	0.31	0.13	82,82,98	0.0	0.0	0.0	0,0,0
	rRfck	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
Max	0.25	0.65	0.41		0.17	0.0	0.35	