

COMUNE DI LAIGUEGLIA

PROVINCIA DI SAVONA

**PERMESSO DI COSTRUIRE CONVENZIONATO
AI SENSI DELL'ART.32 L.R. 29/2016 E S.M.I.
PER LA REALIZZAZIONE DI N.3 EDIFICI RESIDENZIALI
IN AREE COMPRESE TRA
STRADA VICINALE COLLE MICHERI E
STRADA VICINALE CUNI**

**RELAZIONE SULLE FONDAZIONI
E RELAZIONE GEOTECNICA**

Committente: La Quiete s.a.s., Rossi Manuela, Rossi Paolo

Tecnico professionista: Ing. Paolo Bagnasco

RELAZIONE SULLE FONDAZIONE E RELAZIONE GEOTECNICA

TITOLO DEL PROGETTO: Permesso di costruire convenzionato ai sensi dell'art.32 L.R. 29/2016 e s.m.i. per la realizzazione di n.3 edifici residenziali in aree comprese tra strada vicinale Colle Micheri e strada vicinale Cuni

COMMITTENTE: La Quietè s.a.s., Rossi Manuela, Rossi Paolo

PROGETTISTA: Ing. Paolo Bagnasco con studio in Cairo Montenotte (SV) – Via Verneti 14/3

DATA: Dicembre 2018

1. INDIVIDUAZIONE DEL MODELLO DI CALCOLO

1.1 DESCRIZIONE GENERALE DELL'OPERA

Oggetto della presente relazione è l'analisi delle sollecitazioni ed il calcolo delle struttura in cemento armato ordinario previste nel progetto di “Permesso di costruire convenzionato ai sensi dell'art.32 L.R. 29/2016 e s.m.i. per la realizzazione di n.3 edifici residenziali in aree comprese tra strada vicinale Colle Micheri e strada vicinale Cuni” di proprietà di La Quietè s.a.s., Rossi Manuela e Rossi Paolo da realizzarsi nel Comune di Laigueglia (SV). La destinazione dei tre edifici è di civile abitazione e si distinguono in n.3 tipologie:

- tipologia A;
- tipologia A1;
- tipologia B.

La tipologia A e A1 sono caratterizzate dalla stessa forma e geometrie strutturali, solo che un edificio è specchiato rispetto all'altro. Sono costituite da un piano interrato, un piano seminterrato ed un piano fuori terra.

La tipologia B è costituita da un piano interrato, un piano fuori terra ed un piano sottotetto.

La struttura di tutti gli edifici è composta dai seguenti elementi, previsti in calcestruzzo gettato in opera:

FONDAZIONI: del tipo diretto a platea di spessore 50 cm appoggiata su un piano regolarizzato da un getto di magrone di spessore 10 cm.

TRAVI: Travi in spessore di solaio di altezza 20 cm per i solai esterni e di copertura della tipologia A e A1, di altezza 22 cm per i solai della tipologia B e 24 cm per i solai interni della tipologia A e A1..

PILASTRI: Pilastri interni a sezione 25x40 cm ed esterni a sezione 25x60 cm.

SOLAI: Solai latero-cementizi gettati in opera di altezza 24 cm (20+4), 22 cm (18+4) e 20 cm (16+4) con travi in spessore.

1.2 NORMATIVE DI RIFERIMENTO

L'analisi della struttura in oggetto è stata fatta utilizzando i metodi usuali della Scienza delle Costruzioni ed in conformità alle normative e leggi vigenti:

- Legge 5/11/1971 n. 1086: Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso ed a struttura metallica.
- D.P.R. 6/6/2001 n. 380: Testo unico delle disposizioni legislative e regolamentari in materia edilizia.
- D.M. 17/01/2018: Norme tecniche per le costruzioni.

1.3 CRITERI DI ANALISI DELLA SICUREZZA

Con riferimento alle normative precedentemente citate, le strutture in oggetto sono verificate per quanto riguarda:

- verifica di resistenza;
- verifica a deformazione e fessurazione.

Calcestruzzo per le strutture in elevazione: classe C25/30

Acciaio in barre : B450C

1.4 SCHEMATIZZAZIONE DELLA STRUTTURA E DEI VINCOLI

La struttura è stata schematizzata escludendo il contributo degli elementi aventi rigidezza e resistenza trascurabili a fronte dei principali. È quindi stata considerata l'orditura a telaio tridimensionale, i solai ed i setti verticali ad elevata rigidezza (vano ascensore, setti in cls).

La piastra di fondazione è schematizzata come poggianti su vincoli elastici distribuiti.

1.5 MODELLAZIONE DELLA STRUTTURA E DEI VINCOLI

La struttura è modellata con il metodo degli elementi finiti, applicato a sistemi tridimensionali. Gli elementi utilizzati sono sia monodimensionali (trave con eventuali sconnessioni interne), che bidimensionali (piastre e membrane triangolari e quadrangolari). I vincoli sono considerati puntuali ed inseriti tramite le sei costanti di rigidezza elastica, oppure come elementi asta poggianti su suolo elastico. Le sezioni oggetto di verifica nelle travi sono stampate a passo costante; dei gusci si conoscono le sollecitazioni nel baricentro dell'elemento stesso.

1.6 SCHEMATIZZAZIONE DELLE AZIONI

In accordo con le sopracitate normative, sono state considerate nei calcoli le seguenti azioni:

- pesi propri strutturali

- carichi permanenti portati dalla struttura
- carichi variabili sui solai, neve, vento.
- forze di piano simulanti il sisma, ricavate tramite analisi statica semplificata

Le condizioni ed i casi di carico prese in conto nei calcolo sono specificate nella stampa dei dati di input.

1.7 MODELLAZIONE DELLE AZIONI

Sono stati adottati i seguenti valori di carico:

- peso proprio calcestruzzo	2500 daN/mc
- peso proprio solaio h =24 cm	270 daN/mq
- peso proprio solaio h =22 cm	250 daN/mq
- peso proprio solaio h =20 cm	230 daN/mq
- sovraccarico permanente	300 daN/mq
- sovraccarico permanente copertura	150 daN/mq
- sovraccarico accidentale zona abitabile	200 daN/mq
- sovraccarico accidentale zona esterna	400 daN/mq
- sovraccarico neve	100 daN/mq

Le azioni sono state modellate tramite opportuni carichi concentrati e distribuiti su nodi ed aste.

1.8 MODELLAZIONE DEI MATERIALI

I materiali costituenti la struttura sono considerati elastici e con comportamento lineare. Le loro caratteristiche sono specificate nella stampa dei dati di input.

1.9 TIPO DI ANALISI

Le analisi strutturali condotte sono statiche in regime lineare. Il metodo di calcolo è ad elementi finiti. Il calcolo sismico è stato effettuato tramite analisi statica semplificata. La verifica delle membrature in cemento armato viene eseguita considerando tutte le caratteristiche di sollecitazione.

2. INDIVIDUAZIONE DEL CODICE DI CALCOLO

Per il calcolo delle sollecitazioni e per la verifica di travi e pilastri in cemento armato si è fatto ricorso all'elaboratore elettronico utilizzando il seguente programma di calcolo:

DOLMEN WIN (R), versione 16.0 del 2016 prodotto, distribuito ed assistito dalla CDM DOLMEN srl, con sede in Torino, Via Drovetti 9/F.

Questa procedura è sviluppata in ambiente Windows, ed è stata scritta utilizzando i linguaggi Fortran e C. DOLMEN WIN permette l'analisi elastica lineare di strutture tridimensionali con nodi a sei gradi di libertà utilizzando un solutore ad elementi finiti. Gli elementi considerati sono la trave, con eventuali svincoli interni o rotazione attorno al proprio asse, ed il guscio, sia rettangolare che triangolare, avente comportamento di membrana e di piastra. I carichi possono essere applicati sia ai nodi, come forze o coppie concentrate, sia sulle travi, come forze distribuite, trapezie, concentrate, come coppie e come distorsioni termiche. I vincoli sono forniti tramite le sei costanti di rigidezza elastica.

A supporto del programma è fornito un ampio manuale d'uso contenente fra l'altro una vasta serie di test di validazione sia su esempi classici di Scienza delle Costruzioni, sia su strutture particolarmente impegnative e reperibili nella bibliografia specializzata.

2.2 GRADO DI AFFIDABILITA' DEL CODICE

L'affidabilità del codice di calcolo è garantita dall'esistenza di un'ampia documentazione di supporto, come indicato nel paragrafo precedente. La presenza di un modulo CAD per l'introduzione di dati permette la visualizzazione dettagliata degli elementi introdotti. È possibile inoltre ottenere rappresentazioni grafiche di deformate e sollecitazioni della struttura. Al termine dell'elaborazione viene inoltre valutata la qualità della soluzione, in base all'uguaglianza del lavoro esterno e dell'energia di deformazione.

2.3 MOTIVAZIONE DELLA SCELTA DEL CODICE

DOLMEN WIN permette in campo elastico lineare un'analisi dettagliata del comportamento dell'intera struttura, tenendo conto del comportamento irrigidente di setti anche complessi e solai considerati con la loro effettiva rigidezza. È possibile inoltre scegliere il grado di affinamento dell'analisi di elementi complessi utilizzando mesh via via più dettagliate.

3. ESAME DEI RISULTATI E CONTROLLI

3.1 VALUTAZIONE DELLA CORRETTEZZA DEL MODELLO

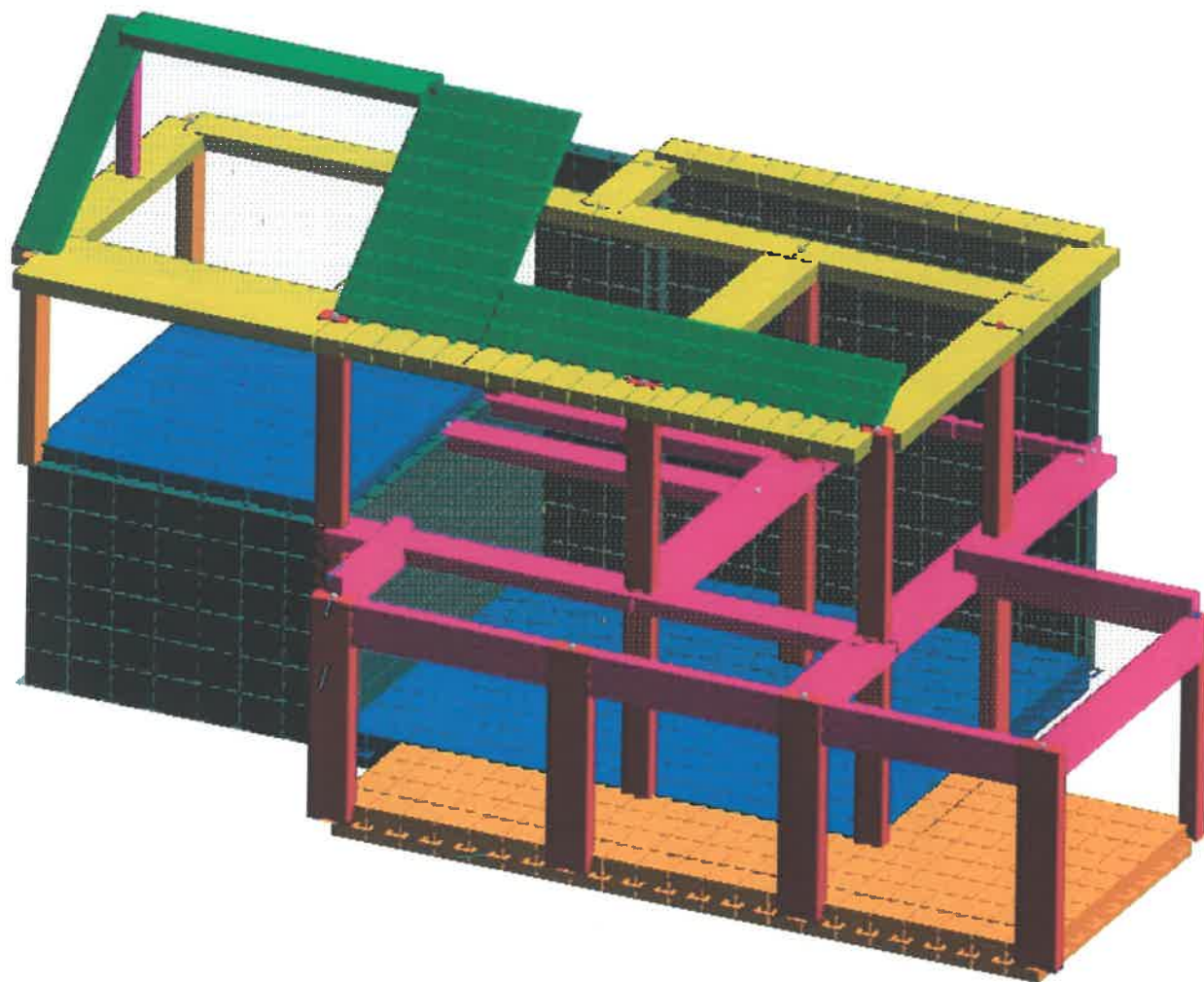
Il modello di calcolo adottato è da ritenersi appropriato in quanto non sono state riscontrate labilità, le reazioni vincolari equilibrano i carichi applicati, la simmetria di carichi e struttura da' origine a sollecitazioni simmetriche.

4. GIUDIZIO MOTIVATO DI ACCETTABILITA' DEI RISULTATI

L'analisi critica dei risultati e dei parametri di controllo nonché il confronto con calcolazioni di massima eseguite manualmente porta ad confermare la validità dei risultati.

5. VERIFICA DELLE FONDAZIONI DEGLI EDIFICI DI TIPOLOGIA A E A1

Il modello agli elementi finiti della tipologia di edificio considerato in studio è rappresentato nella figura sottostante.



5.1 DATI STRUTTURA

Unita' di misura :
 LUNGHEZZE : cm
 SUPERFICI : cm²
 DATI SEZIONALI : cm
 ANGOLI : gradi
 FORZE : daN
 MOMENTI : daNm
 CARICHI LINEARI : daN/m
 CARICHI SUPERFIC.: daN/m²
 TENSIONI : daN/cm²
 PESI DI VOLUME : daN/cm³
 COEFF. DI WINKLER: daN/cm³
 RIGIDENZE VINCOL.: daN/cm - daNm/rad

ASTE--	-----	-----	-----	-----	num.=	111
Nome	Proprieta'	Nodo iniz.	Nodo fin.	Rilasci in.	Rilasci fin.	Orient.
1	1	1	2			0.0
2	1	3	4			0.0
3	1	5	6			0.0
4	1	7	8			90.0
5	1	9	10			0.0
7	1	2	13			0.0
8	1	14	15			0.0
9	1	6	16			0.0
10	1	4	17			0.0
11	1	10	18			0.0
12	1	8	19			90.0
13	2	20	21			0.0
14	2	22	23			0.0
15	2	24	25			0.0
16	2	26	27			0.0
17	1	28	29			90.0
18	1	30	31			90.0
19	12	365	495			0.0
20	3	21	23			0.0
21	3	23	25			0.0
22	3	25	27			0.0
23	3	27	495			0.0
24	3	606	495			0.0
25	3	21	607			0.0
27	6	10	608			0.0
28	5	6	606			0.0
29	5	606	8			0.0
30	5	8	609			0.0
31	5	609	610			0.0
32	4	2	607			0.0
33	4	607	4			0.0
34	4	4	6			0.0
37	7	14	10			0.0
38	7	12	611			0.0
39	6	4	611			0.0
40	6	611	10			0.0
41	7	138	145			0.0
43	7	14	115			0.0
44	7	115	116			0.0
45	7	116	117			0.0
46	7	117	136			0.0
47	7	136	137			0.0
48	7	137	138			0.0
49	5	25	6			0.0
50	9	29	13			0.0
55	5	19	612			0.0
56	5	16	19			0.0
58	4	31	15			0.0
60	4	18	612			0.0
61	4	614	613			0.0
62	4	613	615			0.0
64	5	612	616			0.0
65	4	15	614			0.0
66	4	614	18			0.0
67	7	145	759			0.0
68	7	759	760			0.0
69	7	760	761			0.0
70	7	761	762			0.0
71	7	762	763			0.0
72	7	763	608			0.0
73	7	608	799			0.0
74	7	799	800			0.0
75	7	800	801			0.0
76	7	801	802			0.0
77	7	802	803			0.0
78	7	803	804			0.0
79	7	804	610			0.0
80	7	615	829			0.0
81	7	829	830			0.0
82	7	830	831			0.0
83	7	831	832			0.0
84	7	832	833			0.0
85	7	833	834			0.0
86	7	834	863			0.0
87	7	863	864			0.0
88	7	864	865			0.0
89	7	865	866			0.0

90	7	866	867	0.0
91	7	867	868	0.0
92	7	868	616	0.0
93	10	869	870	0.0
95	11	29	869	0.0
98	12	873	869	0.0
99	12	874	870	0.0
100	5	29	873	0.0
101	5	873	31	0.0
102	8	13	874	0.0
103	8	874	15	0.0
108	8	17	876	0.0
109	8	876	18	0.0
116	9	872	881	0.0
117	9	881	884	0.0
118	9	884	886	0.0
119	9	886	888	0.0
120	9	888	890	0.0
121	9	890	17	0.0
122	9	17	905	0.0
123	9	905	907	0.0
124	9	907	909	0.0
125	9	909	911	0.0
126	9	911	913	0.0
127	9	913	915	0.0
128	9	915	917	0.0
129	9	917	919	0.0
130	9	919	921	0.0
131	9	921	16	0.0
132	9	13	943	0.0
133	9	943	946	0.0
134	9	946	948	0.0
135	9	948	950	0.0
136	9	950	872	0.0

PROPRIETA` ASTE----	num.=	12
Nome Materiale Base Altezza Area Area tag. Y Area tag. Z		
1 1 Kw vertic. 25.00 Kw orizz. 40.00 J tors. 1.00000E+03 J fless. Y 8.33333E+02 J fless. Z 8.33333E+02		
2 1 0.000000 0.000000 1.27344E+05 5.20833E+04 1.33333E+05		
3 1 0.000000 0.000000 2.30673E+05 7.81250E+04 4.50000E+05		
4 1 0.000000 0.000000 2.30673E+05 7.81250E+04 4.50000E+05		
5 1 0.000000 0.000000 2.06954E+05 4.32000E+05 6.91200E+04		
6 1 0.000000 0.000000 2.52965E+05 6.86000E+05 8.06400E+04		
7 1 0.000000 0.000000 2.75986E+05 8.43750E+05 8.64000E+04		
8 1 0.000000 0.000000 1.61034E+05 2.50000E+05 5.76000E+04		
9 1 0.000000 0.000000 2.99012E+05 1.02400E+06 9.21600E+04		
10 1 0.000000 0.000000 5.75448E+05 5.48800E+06 1.61280E+05		
11 1 0.000000 0.000000 1.53084E+05 5.71667E+05 4.66667E+04		
12 1 0.000000 0.000000 1.26434E+05 3.60000E+05 4.00000E+04		
0.000000 0.000000 5.50122E+04 3.25521E+04 3.25521E+04		

PROPRIETA` GUSCI--	num.=	3
Nome Materiale Sp.membr. Sp. piastra Kw		
1 1 30.00 30.00 0.000000		
2 1 50.00 50.00 5.000000		
3 1 20.00 20.00 0.000000		

MATERIALI-----	num.=	1
Nome Mod. elast. Coeff. nu Mod. tang. Peso spec. Dil. te.		
1 3.00000E+05 1.50000E-01 1.30000E+05 2.50000E+03 1.00000E-05		

PESI PROPRI GUSCI-	
Cond. Nome Carichi Gusci	
1 3309-4094 1-345, 354-553, 632-872	

CONDIZIONI DI CARICO-----	num.=	8
Nome		
1 Peso_proprio_____ N. carichi: 934 Lista carichi: 2117-2153, 2228-2338, 3309-4094		
2 Permanente_____ N. carichi: 522 Lista carichi: 2154-2190, 2339-2823		
3 A:Var_abitazione_____ N. carichi: 422 Lista carichi: 2191-2225, 2824-3210		
4 Neve(<1000m_slm)_____ N. carichi: 100 Lista carichi: 2226-2227, 3211-3308		
5 sisma_x_____ N. carichi: 529 Lista carichi: 1-529		
6 sisma_y_____ N. carichi: 529 Lista carichi: 530-1058		

7 Torcente_add._X N. carichi: 529
Lista carichi: 1059-1587

8 Torcente_add._Y N. carichi: 529
Lista carichi: 1588-2116

RISULTANTI DEI CARICHI (punto di applicazione nell'origine degli assi):

cond.	FX	FY	FZ	MX	MY	MZ
1	0.000000E+00	0.000000E+00	-3.100889E+05	-1.434302E+06	6.953115E+05	0.000000E+00
2	0.000000E+00	0.000000E+00	-7.937399E+04	-3.352876E+05	2.165562E+05	0.000000E+00
3	0.000000E+00	0.000000E+00	-7.633050E+04	-3.054452E+05	2.407017E+05	0.000000E+00
4	0.000000E+00	0.000000E+00	-3.544850E+03	-1.155659E+04	-1.744723E+03	0.000000E+00
5	4.118760E+04	0.000000E+00	0.000000E+00	0.000000E+00	2.070982E+05	-1.963143E+05
6	0.000000E+00	4.118760E+04	0.000000E+00	-2.070982E+05	0.000000E+00	5.647068E+04
7	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	6.509645E+01	-1.319268E+04
8	0.000000E+00	0.000000E+00	0.000000E+00	2.164540E+01	0.000000E+00	2.621497E+04

5.2 DATI ANALISI SISMICA

Analisi sismica - Statica lineare - (NTC 2018)

DATI PROGETTO

Edificio sito in località LAIGUEGLIA (long. 8.157 lat. 43.979300)

Categoria del suolo di fondazione = B

Coeff. di amplificazione stratigrafica $S_s = 1.200$

Coeff. di amplificazione topografica $S_T = 1.200$

$S = 1.440$

Vita nominale dell'opera $V_N = 50$ anni

Coefficiente d'uso $C_U = 1.0$

Periodo di riferimento $V_R = 50.0$

PVR : probabilità di superamento in $V_R = 10 \%$

Tempo di ritorno = 474

Coeff. di smorzamento viscoso = 5.0

Valori risultanti per :

$a_g = 1.385$ [g/10]

$F_0 = 2.420$

$T_C^* = 0.280$

Edificio con struttura in cem. armato :

Fattore di comportamento $q = 3.120$

$q = q_0 * K_R * K_W$ dove :

$q_0 = 3.00 * 1.3$ (A telaio con più piani e più campate) (Classe di duttilità "B" (bassa))

$K_R = 0.8$ (Edifici non regolari in altezza)

$K_W = 1.00$

Rapporto spettro di esercizio / spettro di progetto = 0.855

Coeff. λ = 1.0000

$S_d = 0.155$

Numero condizioni generanti carichi sismici : 3

Cond. 001 : Peso_proprio_____ con coeff. 1.000

Cond. 002 : Permanente_____ con coeff. 1.000

Cond. 003 : A:Var_abitazione_____ con coeff. 0.300

Condizioni di carico sismico generate:

Cond. 005 : Sisma X

Cond. 006 : Sisma Y

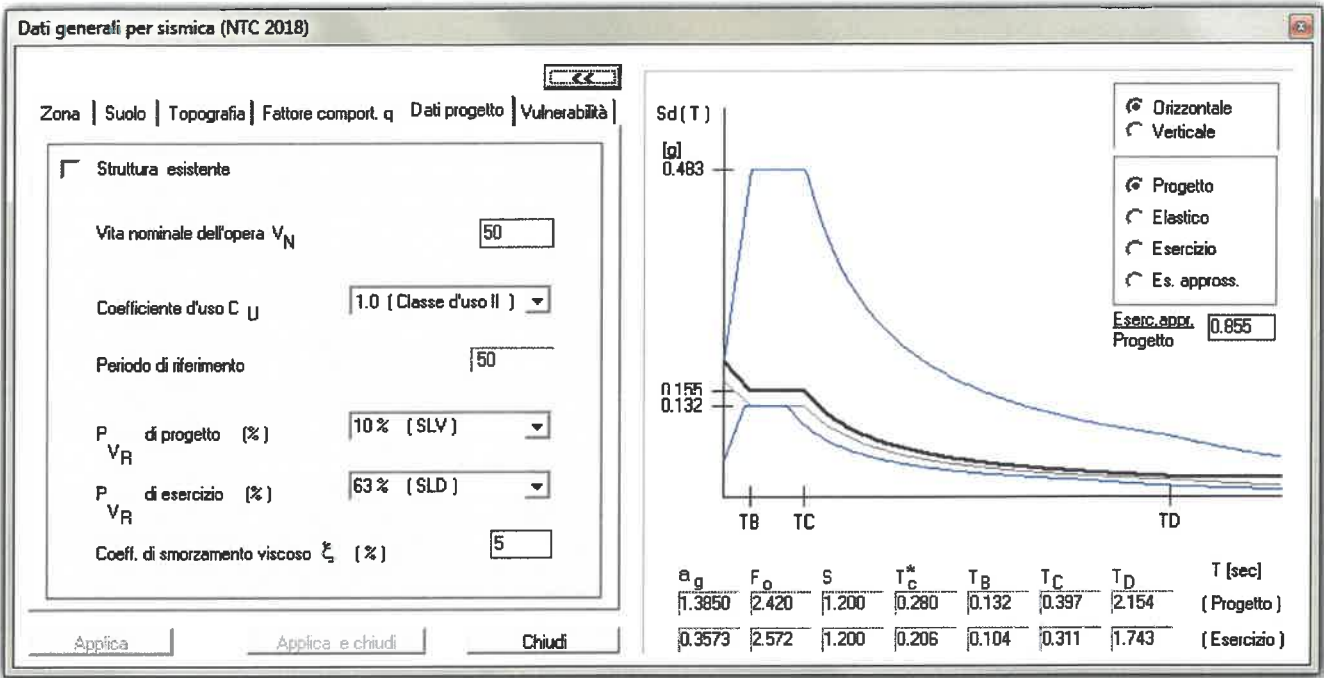
Cond. 007 : Torcente add. X

Cond. 008 : Torcente add. Y

Carichi sismici :

Piani	Pesi	C. distr.	Forze piano	Torc. piano X	Torc. piano Y	Bar. X	Bar. Y
cm	daN		daN	daNm	daNm	cm	cm
53.3	7580	0.0196	148	49	92	14.1	598.4
106.7	7580	0.0392	297	98	183	14.1	598.4
160.0	7580	0.0587	445	147	275	14.1	598.4
213.3	7580	0.0783	594	196	367	14.1	598.4
266.7	7580	0.0979	742	245	458	14.1	598.4
320.0	115427	0.1175	13559	5898	10746	230.1	410.1
380.0	3758	0.1395	524	10	208	281.1	861.4
440.0	3758	0.1615	607	12	241	281.1	861.4
500.0	3758	0.1836	690	14	274	281.1	861.4
560.0	3758	0.2056	772	15	307	281.1	861.4
620.0	85351	0.2276	19426	6411	11996	109.5	468.6
678.9	3541	0.2492	882	24	351	224.4	277.1
748.0	1682	0.2746	462	14	50	2.5	372.9
817.0	6796	0.2999	2038	60	668	-274.8	482.8

Di seguito si rappresenta lo spettro di risposta elastica.



5.3 DESCRIZIONE CASI DI CARICO

NOME	DESCRIZIONE	VERIFICA	TIPO	CONDIZ. INSERITE			CASI INSERITI	
				Num.	Coeff.	Segno	Num.	Coeff.
1	SLU SENZA SISMA	S.L.U.	somma	1	1.300	+		
				2	1.500	+		
				3	1.500	+		
				4	1.500	+		
2	SISMAX SLU	nessuna	somma	5	1.000	±		
				7	1.000	±		
3	SISMAY SLU	nessuna	somma	6	1.000	±		
				8	1.000	±		
4	SLU con SISMAX PRINC	S.L.U.	somma	1	1.000	+	2	1.000
				2	1.000	+	3	0.300
				3	0.300	+		
5	SLU con SISMAY PRINC	S.L.U.	somma	1	1.000	+	3	1.000
				2	1.000	+	2	0.300
				3	0.300	+		
6	SLD con SISMAX PRINC	S.L.Danno	somma	1	1.000	+	2	0.855
				2	1.000	+	3	0.257
				3	0.300	+		
7	SLD con SISMAY PRINC	S.L.Danno	somma	1	1.000	+	3	0.855
				2	1.000	+	2	0.257
				3	0.300	+		
8	SLU FON con SISMAX P	SLU_FON	somma	1	1.000	+	2	1.100
				2	1.000	+	3	0.330
				3	0.300	+		
9	SLU FON con SISMAY P	SLU_FON	somma	1	1.000	+	3	1.100
				2	1.000	+	2	0.330
				3	0.300	+		
10	Rara	Rara	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	1.000	+		
11	Frequente	Freq.	somma	1	1.000	+		
				2	1.000	+		
				3	0.500	+		
				4	0.200	+		
12	Quasi Perm	QuasiPerm.	somma	1	1.000	+		
				2	1.000	+		
				3	0.300	+		

5.4 VERIFICA STRUTTURALE PIASTRA DI FONDAZIONE

MACROGUSCIO fondazione_piano_ter

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

CASI DI CARICO: ->

Nome	Descrizione
1	SLU SENZA SISMA
4	SLU con SISMAX PRINC
5	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	249	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	5	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

LEGENDA:

spess = spessore guscio. Verifica effettuata su sezione BxH, con B=1 cm e H="spess" cm
 Af = area disposta al lembo teso, in cm2 al metro
 Afc = area disposta al lembo compresso, in cm2 al metro
 Mom = momento flettente [kgfm/m]
 Nor = sforzo normale [daN]
 epsC = deformazione cls [per mille]
 epsF = deformazione acciaio [per mille]

<- L'armatura è sufficiente se le deformazioni dei materiali sono ovunque minori delle corrispondenti deformazioni ultime.

GUSC	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
97	50	5.65	5.65	130.	0.	0.01	0.03	5.65	5.65	0.	0.	0.00	0.00
98	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
99	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
100	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
101	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
102	50	5.65	5.65	685.	0.	0.03	0.13	5.65	5.65	0.	0.	0.00	0.00
103	50	5.65	5.65	3287.	0.	0.13	0.64	5.65	5.65	0.	0.	0.00	0.00
104	50	5.65	5.65	305.	0.	0.01	0.06	5.65	5.65	0.	0.	0.00	0.00
105	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
106	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
107	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
108	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
109	50	5.65	5.65	995.	0.	0.04	0.19	5.65	5.65	0.	0.	0.00	0.00
110	50	5.65	5.65	4291.	0.	0.17	0.84	5.65	5.65	0.	0.	0.00	0.00
111	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
112	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
113	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
114	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
115	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	193.	0.	0.01	0.04
116	50	5.65	5.65	683.	0.	0.03	0.13	5.65	5.65	705.	0.	0.03	0.14
117	50	5.65	5.65	4687.	0.	0.19	0.92	5.65	5.65	750.	0.	0.03	0.15
118	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	24.	0.	0.00	0.00
119	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
120	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	73.	0.	0.00	0.01
121	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	536.	0.	0.02	0.10
122	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1879.	0.	0.08	0.37
123	50	5.65	5.65	709.	0.	0.03	0.14	5.65	5.65	3292.	0.	0.13	0.64
124	50	5.65	5.65	4594.	0.	0.18	0.90	5.65	5.65	3769.	0.	0.15	0.74
125	50	5.65	5.65	3621.	0.	0.14	0.71	5.65	5.65	0.	0.	0.00	0.00
126	50	5.65	5.65	1611.	0.	0.06	0.31	5.65	5.65	0.	0.	0.00	0.00
127	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	12.	0.	0.00	0.00
128	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
129	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
130	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	134.	0.	0.01	0.03
131	50	5.65	5.65	1195.	0.	0.05	0.23	5.65	5.65	76.	0.	0.00	0.01
132	50	5.65	5.65	4515.	0.	0.18	0.88	5.65	5.65	0.	0.	0.00	0.00
133	50	5.65	5.65	1895.	0.	0.08	0.37	5.65	5.65	0.	0.	0.00	0.00
134	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
135	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
136	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
137	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
138	50	5.65	5.65	1538.	0.	0.06	0.30	5.65	5.65	0.	0.	0.00	0.00
139	50	5.65	5.65	5022.	0.	0.20	0.98	5.65	5.65	701.	0.	0.03	0.14
140	50	5.65	5.65	1654.	0.	0.07	0.32	5.65	5.65	766.	0.	0.03	0.15
141	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	645.	0.	0.03	0.13
142	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	165.	0.	0.01	0.03
143	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	6.	0.	0.00	0.00
144	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
145	50	5.65	5.65	1859.	0.	0.07	0.36	5.65	5.65	0.	0.	0.00	0.00
146	50	5.65	5.65	4936.	0.	0.20	0.96	5.65	5.65	3919.	0.	0.16	0.77
147	50	5.65	5.65	1763.	0.	0.07	0.34	5.65	5.65	3570.	0.	0.14	0.70
148	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2542.	0.	0.10	0.50
149	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1290.	0.	0.05	0.25
150	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1425.	0.	0.06	0.28
151	50	5.65	5.65	150.	0.	0.01	0.03	5.65	5.65	1408.	0.	0.06	0.27
152	50	5.65	5.65	2064.	0.	0.08	0.40	5.65	5.65	1159.	0.	0.05	0.23
153	50	5.65	5.65	1469.	0.	0.06	0.29	5.65	5.65	82.	0.	0.00	0.02
154	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
155	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
156	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	94.	0.	0.00	0.02
157	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	862.	0.	0.03	0.17
158	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1348.	0.	0.05	0.26
159	50	5.65	5.65	1292.	0.	0.05	0.25	5.65	5.65	1580.	0.	0.06	0.31

160	50	5.65	5.65	1851.	0.	0.07	0.36	5.65	5.65	0.	0.	0.00	0.00
161	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
162	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
163	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
164	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
165	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
166	50	5.65	5.65	618.	0.	0.02	0.12	5.65	5.65	0.	0.	0.00	0.00
167	50	5.65	5.65	2114.	0.	0.08	0.41	5.65	5.65	0.	0.	0.00	0.00
168	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
169	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
170	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
171	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
172	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
173	50	5.65	5.65	235.	0.	0.01	0.05	5.65	5.65	0.	0.	0.00	0.00
174	50	5.65	5.65	2174.	0.	0.09	0.42	5.65	5.65	731.	0.	0.03	0.14
175	50	5.65	5.65	75.	0.	0.00	0.01	5.65	5.65	54.	0.	0.00	0.01
176	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
177	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
178	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
179	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
180	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
181	50	5.65	5.65	4267.	0.	0.17	0.83	5.65	5.65	314.	0.	0.01	0.06
182	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	88.	0.	0.00	0.02
183	50	5.65	5.65	3669.	0.	0.15	0.72	5.65	5.65	187.	0.	0.01	0.04
184	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
185	50	5.65	5.65	3154.	0.	0.13	0.62	5.65	5.65	0.	0.	0.00	0.00
186	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
187	50	5.65	5.65	2058.	0.	0.08	0.40	5.65	5.65	0.	0.	0.00	0.00
188	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
189	50	5.65	5.65	1674.	0.	0.07	0.33	5.65	5.65	0.	0.	0.00	0.00
190	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
191	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
192	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
193	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
194	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	208.	0.	0.01	0.04
195	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	650.	0.	0.03	0.13
196	50	5.65	5.65	681.	0.	0.03	0.13	5.65	5.65	2262.	0.	0.09	0.44
197	50	5.65	5.65	4089.	0.	0.16	0.80	5.65	5.65	3282.	0.	0.13	0.64
198	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3453.	0.	0.14	0.67
199	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
200	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
201	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
202	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	51.	0.	0.00	0.01
203	50	5.65	5.65	530.	0.	0.02	0.10	5.65	5.65	312.	0.	0.01	0.06
204	50	5.65	5.65	3178.	0.	0.13	0.62	5.65	5.65	0.	0.	0.00	0.00
205	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
206	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
207	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
208	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
209	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
210	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
211	50	5.65	5.65	1685.	0.	0.07	0.33	5.65	5.65	0.	0.	0.00	0.00
212	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
213	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
214	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
215	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
216	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
217	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
218	50	5.65	5.65	138.	0.	0.01	0.03	5.65	5.65	0.	0.	0.00	0.00
219	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
220	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
221	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
222	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
223	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
224	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
225	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
226	50	5.65	5.65	4594.	0.	0.18	0.90	5.65	5.65	3551.	0.	0.14	0.69
227	50	5.65	5.65	1766.	0.	0.07	0.34	5.65	5.65	3438.	0.	0.14	0.67
228	50	5.65	5.65	140.	0.	0.01	0.03	5.65	5.65	2691.	0.	0.11	0.53
229	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1612.	0.	0.06	0.31
230	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1174.	0.	0.05	0.23
231	50	5.65	5.65	231.	0.	0.01	0.05	5.65	5.65	1233.	0.	0.05	0.24
232	50	5.65	5.65	2141.	0.	0.09	0.42	5.65	5.65	1061.	0.	0.04	0.21
233	50	5.65	5.65	3837.	0.	0.15	0.75	5.65	5.65	0.	0.	0.00	0.00
234	50	5.65	5.65	1670.	0.	0.07	0.33	5.65	5.65	373.	0.	0.01	0.07
235	50	5.65	5.65	252.	0.	0.01	0.05	5.65	5.65	467.	0.	0.02	0.09
236	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	73.	0.	0.00	0.01
237	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
238	50	5.65	5.65	232.	0.	0.01	0.05	5.65	5.65	0.	0.	0.00	0.00
239	50	5.65	5.65	2062.	0.	0.08	0.40	5.65	5.65	0.	0.	0.00	0.00
240	50	5.65	5.65	2327.	0.	0.09	0.45	5.65	5.65	0.	0.	0.00	0.00
241	50	5.65	5.65	770.	0.	0.03	0.15	5.65	5.65	0.	0.	0.00	0.00
242	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
243	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
244	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
245	50	5.65	5.65	250.	0.	0.01	0.05	5.65	5.65	0.	0.	0.00	0.00
246	50	5.65	5.65	1850.	0.	0.07	0.36	5.65	5.65	0.	0.	0.00	0.00
247	50	5.65	5.65	504.	0.	0.02	0.10	5.65	5.65	0.	0.	0.00	0.00
248	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
249	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
250	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
251	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
252	50	5.65	5.65	415.	0.	0.02	0.08	5.65	5.65	0.	0.	0.00	0.00
253	50	5.65	5.65	1939.	0.	0.08	0.38	5.65	5.65	0.	0.	0.00	0.00
254	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
255	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
256	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
257	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
258	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
259	50	5.65	5.65	605.	0.	0.02	0.12	5.65	5.65	0.	0.	0.00	0.00
260	50	5.65	5.65	2785.	0.	0.11	0.54	5.65	5.65	0.	0.	0.00	0.00
261	50	5.65	5.65	2282.	0.	0.09	0.45	5.65	5.65	727.	0.	0.03	0.14
262	50	5.65	5.65	238.	0.	0.01	0.05	5.65	5.65	193.	0.	0.01	0.04
263	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00

264	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
265	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
266	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
267	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
268	50	5.65	5.65	2218.	0.	0.09	0.43	5.65	5.65	0.	0.	0.00	0.00
269	50	5.65	5.65	314.	0.	0.01	0.06	5.65	5.65	0.	0.	0.00	0.00
270	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
271	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
272	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
273	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
274	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
275	50	5.65	5.65	2022.	0.	0.08	0.39	5.65	5.65	0.	0.	0.00	0.00
276	50	5.65	5.65	172.	0.	0.01	0.03	5.65	5.65	0.	0.	0.00	0.00
277	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
278	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
279	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
280	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
281	50	5.65	5.65	375.	0.	0.01	0.07	5.65	5.65	0.	0.	0.00	0.00
282	50	5.65	5.65	1701.	0.	0.07	0.33	5.65	5.65	0.	0.	0.00	0.00
283	50	5.65	5.65	94.	0.	0.00	0.02	5.65	5.65	0.	0.	0.00	0.00
284	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
285	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
286	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
287	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
288	50	5.65	5.65	800.	0.	0.03	0.16	5.65	5.65	0.	0.	0.00	0.00
289	50	5.65	5.65	1762.	0.	0.07	0.34	5.65	5.65	0.	0.	0.00	0.00
290	50	5.65	5.65	66.	0.	0.00	0.01	5.65	5.65	0.	0.	0.00	0.00
291	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
292	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
293	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	352.	0.	0.01	0.07
294	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	875.	0.	0.03	0.17
295	50	5.65	5.65	1493.	0.	0.06	0.29	5.65	5.65	1655.	0.	0.07	0.32
296	50	5.65	5.65	1917.	0.	0.08	0.37	5.65	5.65	0.	0.	0.00	0.00
297	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
298	50	5.65	5.65	2355.	0.	0.09	0.46	5.65	5.65	0.	0.	0.00	0.00
299	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
300	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
301	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
302	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
303	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
304	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
305	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
306	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
307	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
308	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
309	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
310	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
311	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
312	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
313	50	5.65	5.65	590.	0.	0.02	0.12	5.65	5.65	0.	0.	0.00	0.00
314	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
315	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
316	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
317	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
318	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
319	50	5.65	5.65	195.	0.	0.01	0.04	5.65	5.65	0.	0.	0.00	0.00
320	50	5.65	5.65	2872.	0.	0.11	0.56	5.65	5.65	0.	0.	0.00	0.00
321	50	5.65	5.65	626.	0.	0.03	0.12	5.65	5.65	0.	0.	0.00	0.00
322	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
323	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
324	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
325	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
326	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1284.	0.	0.05	0.25
327	50	5.65	5.65	1599.	0.	0.06	0.31	5.65	5.65	2905.	0.	0.12	0.57
328	50	5.65	5.65	3027.	0.	0.12	0.59	5.65	5.65	433.	0.	0.02	0.08
329	50	5.65	5.65	606.	0.	0.02	0.12	5.65	5.65	0.	0.	0.00	0.00
330	50	5.65	5.65	3809.	0.	0.15	0.74	5.65	5.65	1261.	0.	0.05	0.25
331	50	5.65	5.65	1568.	0.	0.06	0.31	5.65	5.65	707.	0.	0.03	0.14
332	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
333	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
334	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
335	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
336	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
337	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
338	50	5.65	5.65	1776.	0.	0.07	0.35	5.65	5.65	0.	0.	0.00	0.00
339	50	5.65	5.65	6.	0.	0.00	0.00	5.65	5.65	125.	0.	0.00	0.02
340	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
341	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
342	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
343	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
344	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	535.	0.	0.02	0.10
345	50	5.65	5.65	2342.	0.	0.09	0.46	5.65	5.65	654.	0.	0.03	0.13
354	50	5.65	5.65	4165.	0.	0.17	0.81	5.65	5.65	2174.	0.	0.09	0.42
355	50	5.65	5.65	2460.	0.	0.10	0.48	5.65	5.65	1517.	0.	0.06	0.30
356	50	5.65	5.65	4464.	0.	0.18	0.87	5.65	5.65	3153.	0.	0.13	0.62
357	50	5.65	5.65	2934.	0.	0.12	0.57	5.65	5.65	2543.	0.	0.10	0.50
358	50	5.65	5.65	4610.	0.	0.18	0.90	5.65	5.65	4929.	0.	0.20	0.96
359	50	5.65	5.65	3478.	0.	0.14	0.68	5.65	5.65	4589.	0.	0.18	0.90
360	50	5.65	5.65	1158.	0.	0.05	0.23	5.65	5.65	931.	0.	0.04	0.18
361	50	5.65	5.65	1751.	0.	0.07	0.34	5.65	5.65	1964.	0.	0.08	0.38
362	50	5.65	5.65	2427.	0.	0.10	0.47	5.65	5.65	4123.	0.	0.16	0.80
363	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
364	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
365	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
366	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
367	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	659.	0.	0.03	0.13
368	50	5.65	5.65	2537.	0.	0.10	0.50	5.65	5.65	973.	0.	0.04	0.19
369	50	5.65	5.65	580.	0.	0.02	0.11	5.65	5.65	1089.	0.	0.04	0.21
370	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
371	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
372	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
373	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
374	50	5.65	5.65	2491.	0.	0.10	0.49	5.65	5.65	0.	0.	0.00	0.00
375	50	5.65	5.65	1095.	0.	0.04	0.21	5.65	5.65	3379.	0.	0.13	0.66

376	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2263.	0.	0.09	0.44
377	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	980.	0.	0.04	0.19
378	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1.	0.	0.00	0.00
379	50	5.65	5.65	196.	0.	0.01	0.04	5.65	5.65	0.	0.	0.00	0.00
380	50	5.65	5.65	2052.	0.	0.08	0.40	5.65	5.65	0.	0.	0.00	0.00
381	50	5.65	5.65	1806.	0.	0.07	0.35	5.65	5.65	0.	0.	0.00	0.00
382	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
383	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
384	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
385	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
386	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	97.	0.	0.00	0.02
387	50	5.65	5.65	141.	0.	0.01	0.03	5.65	5.65	801.	0.	0.03	0.16
388	50	5.65	5.65	2382.	0.	0.10	0.46	5.65	5.65	2006.	0.	0.08	0.39
389	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	563.	0.	0.02	0.11
390	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	524.	0.	0.02	0.10
391	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
392	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
393	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
394	50	5.65	5.65	487.	0.	0.02	0.10	5.65	5.65	254.	0.	0.01	0.05
395	50	5.65	5.65	2624.	0.	0.10	0.51	5.65	5.65	826.	0.	0.03	0.16
396	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	387.	0.	0.02	0.08
397	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
398	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
399	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
400	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
401	50	5.65	5.65	1608.	0.	0.06	0.31	5.65	5.65	0.	0.	0.00	0.00
402	50	5.65	5.65	2818.	0.	0.11	0.55	5.65	5.65	0.	0.	0.00	0.00
403	50	5.65	5.65	550.	0.	0.02	0.11	5.65	5.65	0.	0.	0.00	0.00
404	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
405	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
406	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
407	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
408	50	5.65	5.65	721.	0.	0.03	0.14	5.65	5.65	0.	0.	0.00	0.00
409	50	5.65	5.65	2602.	0.	0.10	0.51	5.65	5.65	0.	0.	0.00	0.00
410	50	5.65	5.65	1046.	0.	0.04	0.20	5.65	5.65	0.	0.	0.00	0.00
411	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
412	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
413	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
414	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
415	50	5.65	5.65	338.	0.	0.01	0.07	5.65	5.65	0.	0.	0.00	0.00
416	50	5.65	5.65	1637.	0.	0.07	0.32	5.65	5.65	3884.	0.	0.16	0.76
417	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3287.	0.	0.13	0.64
418	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2874.	0.	0.11	0.56
419	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2241.	0.	0.09	0.44
420	50	5.65	5.65	85.	0.	0.00	0.02	5.65	5.65	1716.	0.	0.07	0.34
421	50	5.65	5.65	1141.	0.	0.05	0.22	5.65	5.65	1485.	0.	0.06	0.29
422	50	5.65	5.65	1867.	0.	0.07	0.36	5.65	5.65	1459.	0.	0.06	0.28
423	50	5.65	5.65	1112.	0.	0.04	0.22	5.65	5.65	1503.	0.	0.06	0.29
424	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1475.	0.	0.06	0.29
425	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1274.	0.	0.05	0.25
426	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1019.	0.	0.04	0.20
427	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1192.	0.	0.05	0.23
428	50	5.65	5.65	160.	0.	0.01	0.03	5.65	5.65	1281.	0.	0.05	0.25

		SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
97	50	5.65	5.65	1583.	0.	0.06	0.29	5.65	5.65	1378.	0.	0.05	0.26
98	50	5.65	5.65	3294.	0.	0.12	0.61	5.65	5.65	1160.	0.	0.04	0.22
99	50	5.65	5.65	3945.	0.	0.14	0.73	5.65	5.65	1005.	0.	0.04	0.19
100	50	5.65	5.65	3707.	0.	0.13	0.69	5.65	5.65	723.	0.	0.03	0.13
101	50	5.65	5.65	2708.	0.	0.10	0.50	5.65	5.65	564.	0.	0.02	0.10
102	50	5.65	5.65	748.	0.	0.03	0.14	5.65	5.65	696.	0.	0.03	0.13
103	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	741.	0.	0.03	0.14
104	50	5.65	5.65	2719.	0.	0.10	0.51	5.65	5.65	1862.	0.	0.07	0.35
105	50	5.65	5.65	3935.	0.	0.14	0.73	5.65	5.65	1501.	0.	0.05	0.28
106	50	5.65	5.65	4352.	0.	0.16	0.81	5.65	5.65	1240.	0.	0.04	0.23
107	50	5.65	5.65	3838.	0.	0.14	0.71	5.65	5.65	1046.	0.	0.04	0.19
108	50	5.65	5.65	2804.	0.	0.10	0.52	5.65	5.65	996.	0.	0.04	0.19
109	50	5.65	5.65	964.	0.	0.03	0.18	5.65	5.65	995.	0.	0.04	0.18
110	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	914.	0.	0.03	0.17
111	50	5.65	5.65	3998.	0.	0.14	0.74	5.65	5.65	2745.	0.	0.10	0.51
112	50	5.65	5.65	4653.	0.	0.17	0.86	5.65	5.65	2196.	0.	0.08	0.41
113	50	5.65	5.65	4829.	0.	0.17	0.90	5.65	5.65	1693.	0.	0.06	0.31
114	50	5.65	5.65	4226.	0.	0.15	0.79	5.65	5.65	824.	0.	0.03	0.15
115	50	5.65	5.65	2928.	0.	0.11	0.54	5.65	5.65	640.	0.	0.02	0.12
116	50	5.65	5.65	844.	0.	0.03	0.16	5.65	5.65	558.	0.	0.02	0.10
117	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	244.	0.	0.01	0.05
118	50	5.65	5.65	5011.	0.	0.18	0.93	5.65	5.65	3079.	0.	0.11	0.57
119	50	5.65	5.65	5473.	0.	0.20	1.02	5.65	5.65	2524.	0.	0.09	0.47
120	50	5.65	5.65	5424.	0.	0.20	1.01	5.65	5.65	1948.	0.	0.07	0.36
121	50	5.65	5.65	4732.	0.	0.17	0.88	5.65	5.65	765.	0.	0.03	0.14
122	50	5.65	5.65	3396.	0.	0.12	0.63	5.65	5.65	0.	0.	0.00	0.00
123	50	5.65	5.65	1122.	0.	0.04	0.21	5.65	5.65	0.	0.	0.00	0.00
124	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
125	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	738.	0.	0.03	0.14
126	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	688.	0.	0.02	0.13
127	50	5.65	5.65	751.	0.	0.03	0.14	5.65	5.65	572.	0.	0.02	0.11
128	50	5.65	5.65	1314.	0.	0.05	0.24	5.65	5.65	469.	0.	0.02	0.09
129	50	5.65	5.65	1350.	0.	0.05	0.25	5.65	5.65	726.	0.	0.03	0.13
130	50	5.65	5.65	696.	0.	0.03	0.13	5.65	5.65	901.	0.	0.03	0.17
131	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1001.	0.	0.04	0.19
132	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	899.	0.	0.03	0.17
133	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	815.	0.	0.03	0.15
134	50	5.65	5.65	836.	0.	0.03	0.16	5.65	5.65	689.	0.	0.02	0.13
135	50	5.65	5.65	1533.	0.	0.06	0.29	5.65	5.65	708.	0.	0.03	0.13
136	50	5.65	5.65	1540.	0.	0.06	0.29	5.65	5.65	916.	0.	0.03	0.17
137	50	5.65	5.65	853.	0.	0.03	0.16	5.65	5.65	1166.	0.	0.04	0.22
138	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1430.	0.	0.05	0.27
139	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	197.	0.	0.01	0.04
140	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	212.	0.	0.01	0.04
141	50	5.65	5.65	1062.	0.	0.04	0.20	5.65	5.65	245.	0.	0.01	0.05
142	50	5.65	5.65	1786.	0.	0.06	0.33	5.65	5.65	234.	0.	0.01	0.04
143	50	5.65	5.65	1706.	0.	0.06	0.32	5.65	5.65	593.	0.	0.02	0.11
144	50	5.65	5.65	957.	0.	0.03	0.18	5.65	5.65	858.	0.	0.03	0.16

145	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1046.	0.	0.04	0.19
146	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
147	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
148	50	5.65	5.65	1494.	0.	0.05	0.28	5.65	5.65	0.	0.	0.00	0.00
149	50	5.65	5.65	2126.	0.	0.08	0.40	5.65	5.65	0.	0.	0.00	0.00
150	50	5.65	5.65	1940.	0.	0.07	0.36	5.65	5.65	17.	0.	0.00	0.00
151	50	5.65	5.65	1096.	0.	0.04	0.20	5.65	5.65	270.	0.	0.01	0.05
152	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	387.	0.	0.01	0.07
153	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1132.	0.	0.04	0.21
154	50	5.65	5.65	1228.	0.	0.04	0.23	5.65	5.65	1282.	0.	0.05	0.24
155	50	5.65	5.65	2582.	0.	0.09	0.48	5.65	5.65	1432.	0.	0.05	0.27
156	50	5.65	5.65	3475.	0.	0.13	0.65	5.65	5.65	1868.	0.	0.07	0.35
157	50	5.65	5.65	3827.	0.	0.14	0.71	5.65	5.65	2385.	0.	0.09	0.44
158	50	5.65	5.65	3425.	0.	0.12	0.64	5.65	5.65	2685.	0.	0.10	0.50
159	50	5.65	5.65	2111.	0.	0.08	0.39	5.65	5.65	3015.	0.	0.11	0.56
160	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1724.	0.	0.06	0.32
161	50	5.65	5.65	1194.	0.	0.04	0.22	5.65	5.65	2022.	0.	0.07	0.38
162	50	5.65	5.65	2418.	0.	0.09	0.45	5.65	5.65	2343.	0.	0.08	0.44
163	50	5.65	5.65	3229.	0.	0.12	0.60	5.65	5.65	2802.	0.	0.10	0.52
164	50	5.65	5.65	3504.	0.	0.13	0.65	5.65	5.65	3250.	0.	0.12	0.60
165	50	5.65	5.65	3094.	0.	0.11	0.58	5.65	5.65	3554.	0.	0.13	0.66
166	50	5.65	5.65	1859.	0.	0.07	0.35	5.65	5.65	3886.	0.	0.14	0.72
167	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1458.	0.	0.05	0.27
168	50	5.65	5.65	965.	0.	0.03	0.18	5.65	5.65	2006.	0.	0.07	0.37
169	50	5.65	5.65	2151.	0.	0.08	0.40	5.65	5.65	2520.	0.	0.09	0.47
170	50	5.65	5.65	2954.	0.	0.11	0.55	5.65	5.65	3025.	0.	0.11	0.56
171	50	5.65	5.65	3181.	0.	0.11	0.59	5.65	5.65	3494.	0.	0.13	0.65
172	50	5.65	5.65	2777.	0.	0.10	0.52	5.65	5.65	3798.	0.	0.14	0.71
173	50	5.65	5.65	1601.	0.	0.06	0.30	5.65	5.65	4125.	0.	0.15	0.77
174	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	524.	0.	0.02	0.10
175	50	5.65	5.65	894.	0.	0.03	0.17	5.65	5.65	946.	0.	0.03	0.18
176	50	5.65	5.65	1756.	0.	0.06	0.33	5.65	5.65	1848.	0.	0.07	0.34
177	50	5.65	5.65	2471.	0.	0.09	0.46	5.65	5.65	2657.	0.	0.10	0.49
178	50	5.65	5.65	2623.	0.	0.09	0.49	5.65	5.65	3259.	0.	0.12	0.61
179	50	5.65	5.65	2206.	0.	0.08	0.41	5.65	5.65	3605.	0.	0.13	0.67
180	50	5.65	5.65	1230.	0.	0.04	0.23	5.65	5.65	3936.	0.	0.14	0.73
181	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	658.	0.	0.02	0.12
182	50	5.65	5.65	4259.	0.	0.15	0.79	5.65	5.65	1055.	0.	0.04	0.20
183	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	863.	0.	0.03	0.16
184	50	5.65	5.65	3926.	0.	0.14	0.73	5.65	5.65	1259.	0.	0.05	0.23
185	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1139.	0.	0.04	0.21
186	50	5.65	5.65	3653.	0.	0.13	0.68	5.65	5.65	1534.	0.	0.06	0.29
187	50	5.65	5.65	120.	0.	0.00	0.02	5.65	5.65	1286.	0.	0.05	0.24
188	50	5.65	5.65	3208.	0.	0.12	0.60	5.65	5.65	1690.	0.	0.06	0.31
189	50	5.65	5.65	780.	0.	0.03	0.15	5.65	5.65	1799.	0.	0.06	0.33
190	50	5.65	5.65	3470.	0.	0.13	0.65	5.65	5.65	2185.	0.	0.08	0.41
191	50	5.65	5.65	5533.	0.	0.20	1.03	5.65	5.65	1273.	0.	0.05	0.24
192	50	5.65	5.65	5928.	0.	0.21	1.10	5.65	5.65	1652.	0.	0.06	0.31
193	50	5.65	5.65	5809.	0.	0.21	1.08	5.65	5.65	1702.	0.	0.06	0.32
194	50	5.65	5.65	5121.	0.	0.18	0.95	5.65	5.65	1494.	0.	0.05	0.28
195	50	5.65	5.65	3859.	0.	0.14	0.72	5.65	5.65	858.	0.	0.03	0.16
196	50	5.65	5.65	1781.	0.	0.06	0.33	5.65	5.65	0.	0.	0.00	0.00
197	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
198	50	5.65	5.65	5601.	0.	0.20	1.04	5.65	5.65	1611.	0.	0.06	0.30
199	50	5.65	5.65	5983.	0.	0.22	1.11	5.65	5.65	2141.	0.	0.08	0.40
200	50	5.65	5.65	5882.	0.	0.21	1.09	5.65	5.65	2524.	0.	0.09	0.47
201	50	5.65	5.65	5264.	0.	0.19	0.98	5.65	5.65	2627.	0.	0.09	0.49
202	50	5.65	5.65	4155.	0.	0.15	0.77	5.65	5.65	2723.	0.	0.10	0.51
203	50	5.65	5.65	2340.	0.	0.08	0.44	5.65	5.65	2424.	0.	0.09	0.45
204	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1867.	0.	0.07	0.35
205	50	5.65	5.65	5434.	0.	0.20	1.01	5.65	5.65	1994.	0.	0.07	0.37
206	50	5.65	5.65	5909.	0.	0.21	1.10	5.65	5.65	2623.	0.	0.09	0.49
207	50	5.65	5.65	5839.	0.	0.21	1.09	5.65	5.65	3195.	0.	0.12	0.59
208	50	5.65	5.65	5244.	0.	0.19	0.98	5.65	5.65	3607.	0.	0.13	0.67
209	50	5.65	5.65	4133.	0.	0.15	0.77	5.65	5.65	3740.	0.	0.14	0.70
210	50	5.65	5.65	2590.	0.	0.09	0.48	5.65	5.65	3759.	0.	0.14	0.70
211	50	5.65	5.65	276.	0.	0.01	0.05	5.65	5.65	3497.	0.	0.13	0.65
212	50	5.65	5.65	4724.	0.	0.17	0.88	5.65	5.65	2207.	0.	0.08	0.41
213	50	5.65	5.65	5523.	0.	0.20	1.03	5.65	5.65	2904.	0.	0.10	0.54
214	50	5.65	5.65	5555.	0.	0.20	1.03	5.65	5.65	3558.	0.	0.13	0.66
215	50	5.65	5.65	5014.	0.	0.18	0.93	5.65	5.65	4095.	0.	0.15	0.76
216	50	5.65	5.65	3926.	0.	0.14	0.73	5.65	5.65	4430.	0.	0.16	0.82
217	50	5.65	5.65	2395.	0.	0.09	0.45	5.65	5.65	4494.	0.	0.16	0.84
218	50	5.65	5.65	709.	0.	0.03	0.13	5.65	5.65	4599.	0.	0.17	0.85
219	50	5.65	5.65	4836.	0.	0.17	0.90	5.65	5.65	2675.	0.	0.10	0.50
220	50	5.65	5.65	5366.	0.	0.19	1.00	5.65	5.65	3257.	0.	0.12	0.61
221	50	5.65	5.65	5202.	0.	0.19	0.97	5.65	5.65	3760.	0.	0.14	0.70
222	50	5.65	5.65	4583.	0.	0.17	0.85	5.65	5.65	4233.	0.	0.15	0.79
223	50	5.65	5.65	3552.	0.	0.13	0.66	5.65	5.65	4684.	0.	0.17	0.87
224	50	5.65	5.65	2196.	0.	0.08	0.41	5.65	5.65	5074.	0.	0.18	0.94
225	50	5.65	5.65	1174.	0.	0.04	0.22	5.65	5.65	5358.	0.	0.19	1.00
226	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
227	50	5.65	5.65	577.	0.	0.02	0.11	5.65	5.65	0.	0.	0.00	0.00
228	50	5.65	5.65	1916.	0.	0.07	0.36	5.65	5.65	489.	0.	0.02	0.09
229	50	5.65	5.65	2441.	0.	0.09	0.45	5.65	5.65	713.	0.	0.03	0.13
230	50	5.65	5.65	2145.	0.	0.08	0.40	5.65	5.65	831.	0.	0.03	0.15
231	50	5.65	5.65	1260.	0.	0.05	0.23	5.65	5.65	1093.	0.	0.04	0.20
232	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1288.	0.	0.05	0.24
233	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2047.	0.	0.07	0.38
234	50	5.65	5.65	1212.	0.	0.04	0.23	5.65	5.65	2596.	0.	0.09	0.48
235	50	5.65	5.65	2287.	0.	0.08	0.43	5.65	5.65	2893.	0.	0.10	0.54
236	50	5.65	5.65	2666.	0.	0.10	0.50	5.65	5.65	2878.	0.	0.10	0.54
237	50	5.65	5.65	2297.	0.	0.08	0.43	5.65	5.65	2909.	0.	0.11	0.54
238	50	5.65	5.65	1385.	0.	0.05	0.26	5.65	5.65	3065.	0.	0.11	0.57
239	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3203.	0.	0.12	0.60
240	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3834.	0.	0.14	0.71
241	50	5.65	5.65	1614.	0.	0.06	0.30	5.65	5.65	4223.	0.	0.15	0.79
242	50	5.65	5.65	2471.	0.	0.09	0.46	5.65	5.65	4405.	0.	0.16	0.82
243	50	5.65	5.65	2795.	0.	0.10	0.52	5.65	5.65	4422.	0.	0.16	0.82
244	50	5.65	5.65	2465.	0.	0.09	0.46	5.65	5.65	4418.	0.	0.16	0.82
245	50	5.65	5.65	1493.	0.	0.05	0.28	5.65	5.65	4377.	0.	0.16	0.81
246	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	4261.	0.	0.15	0.79
247													

249	50	5.65	5.65	2491.	0.	0.09	0.46	5.65	5.65	5275.	0.	0.19	0.98
250	50	5.65	5.65	2911.	0.	0.11	0.54	5.65	5.65	5317.	0.	0.19	0.99
251	50	5.65	5.65	2797.	0.	0.10	0.52	5.65	5.65	5311.	0.	0.19	0.99
252	50	5.65	5.65	2112.	0.	0.08	0.39	5.65	5.65	5189.	0.	0.19	0.96
253	50	5.65	5.65	902.	0.	0.03	0.17	5.65	5.65	4834.	0.	0.17	0.90
254	50	5.65	5.65	972.	0.	0.04	0.18	5.65	5.65	5518.	0.	0.20	1.03
255	50	5.65	5.65	1666.	0.	0.06	0.31	5.65	5.65	5592.	0.	0.20	1.04
256	50	5.65	5.65	2461.	0.	0.09	0.46	5.65	5.65	5650.	0.	0.20	1.05
257	50	5.65	5.65	3011.	0.	0.11	0.56	5.65	5.65	5761.	0.	0.21	1.07
258	50	5.65	5.65	3149.	0.	0.11	0.59	5.65	5.65	5789.	0.	0.21	1.08
259	50	5.65	5.65	2801.	0.	0.10	0.52	5.65	5.65	5477.	0.	0.20	1.02
260	50	5.65	5.65	1887.	0.	0.07	0.35	5.65	5.65	4473.	0.	0.16	0.83
261	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1568.	0.	0.06	0.29
262	50	5.65	5.65	1045.	0.	0.04	0.19	5.65	5.65	2025.	0.	0.07	0.38
263	50	5.65	5.65	1939.	0.	0.07	0.36	5.65	5.65	2596.	0.	0.09	0.48
264	50	5.65	5.65	2510.	0.	0.09	0.47	5.65	5.65	3157.	0.	0.11	0.59
265	50	5.65	5.65	2576.	0.	0.09	0.48	5.65	5.65	3615.	0.	0.13	0.67
266	50	5.65	5.65	2148.	0.	0.08	0.40	5.65	5.65	3873.	0.	0.14	0.72
267	50	5.65	5.65	1276.	0.	0.05	0.24	5.65	5.65	4140.	0.	0.15	0.77
268	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3332.	0.	0.12	0.62
269	50	5.65	5.65	1109.	0.	0.04	0.21	5.65	5.65	3487.	0.	0.13	0.65
270	50	5.65	5.65	2107.	0.	0.08	0.39	5.65	5.65	3683.	0.	0.13	0.68
271	50	5.65	5.65	2818.	0.	0.10	0.52	5.65	5.65	3933.	0.	0.14	0.73
272	50	5.65	5.65	3072.	0.	0.11	0.57	5.65	5.65	4226.	0.	0.15	0.79
273	50	5.65	5.65	2797.	0.	0.10	0.52	5.65	5.65	4422.	0.	0.16	0.82
274	50	5.65	5.65	1989.	0.	0.07	0.37	5.65	5.65	4676.	0.	0.17	0.87
275	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	4176.	0.	0.15	0.78
276	50	5.65	5.65	984.	0.	0.04	0.18	5.65	5.65	4070.	0.	0.15	0.76
277	50	5.65	5.65	2241.	0.	0.08	0.42	5.65	5.65	3979.	0.	0.14	0.74
278	50	5.65	5.65	3087.	0.	0.11	0.57	5.65	5.65	4085.	0.	0.15	0.76
279	50	5.65	5.65	3526.	0.	0.13	0.66	5.65	5.65	4363.	0.	0.16	0.81
280	50	5.65	5.65	3418.	0.	0.12	0.64	5.65	5.65	4569.	0.	0.16	0.85
281	50	5.65	5.65	2707.	0.	0.10	0.50	5.65	5.65	4859.	0.	0.18	0.90
282	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	4353.	0.	0.16	0.81
283	50	5.65	5.65	822.	0.	0.03	0.15	5.65	5.65	3858.	0.	0.14	0.72
284	50	5.65	5.65	2249.	0.	0.08	0.42	5.65	5.65	3441.	0.	0.12	0.64
285	50	5.65	5.65	3211.	0.	0.12	0.60	5.65	5.65	3457.	0.	0.12	0.64
286	50	5.65	5.65	3781.	0.	0.14	0.70	5.65	5.65	3883.	0.	0.14	0.72
287	50	5.65	5.65	3770.	0.	0.14	0.70	5.65	5.65	4184.	0.	0.15	0.78
288	50	5.65	5.65	3103.	0.	0.11	0.58	5.65	5.65	4568.	0.	0.16	0.85
289	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3417.	0.	0.12	0.64
290	50	5.65	5.65	584.	0.	0.02	0.11	5.65	5.65	2609.	0.	0.09	0.49
291	50	5.65	5.65	2221.	0.	0.08	0.41	5.65	5.65	1930.	0.	0.07	0.36
292	50	5.65	5.65	3342.	0.	0.12	0.62	5.65	5.65	2003.	0.	0.07	0.37
293	50	5.65	5.65	4059.	0.	0.15	0.75	5.65	5.65	2769.	0.	0.10	0.51
294	50	5.65	5.65	4159.	0.	0.15	0.77	5.65	5.65	3195.	0.	0.12	0.59
295	50	5.65	5.65	3549.	0.	0.13	0.66	5.65	5.65	3690.	0.	0.13	0.69
296	50	5.65	5.65	1483.	0.	0.05	0.28	5.65	5.65	2522.	0.	0.09	0.47
297	50	5.65	5.65	3900.	0.	0.14	0.72	5.65	5.65	2950.	0.	0.11	0.55
298	50	5.65	5.65	2207.	0.	0.08	0.41	5.65	5.65	3287.	0.	0.12	0.61
299	50	5.65	5.65	4368.	0.	0.16	0.81	5.65	5.65	3700.	0.	0.13	0.69
300	50	5.65	5.65	5206.	0.	0.19	0.97	5.65	5.65	3451.	0.	0.12	0.64
301	50	5.65	5.65	5666.	0.	0.20	1.05	5.65	5.65	4058.	0.	0.15	0.75
302	50	5.65	5.65	5531.	0.	0.20	1.03	5.65	5.65	4551.	0.	0.16	0.85
303	50	5.65	5.65	4918.	0.	0.18	0.91	5.65	5.65	4968.	0.	0.18	0.92
304	50	5.65	5.65	3953.	0.	0.14	0.73	5.65	5.65	5286.	0.	0.19	0.98
305	50	5.65	5.65	2685.	0.	0.10	0.50	5.65	5.65	5461.	0.	0.20	1.02
306	50	5.65	5.65	1280.	0.	0.05	0.24	5.65	5.65	5482.	0.	0.20	1.02
307	50	5.65	5.65	5455.	0.	0.20	1.01	5.65	5.65	4124.	0.	0.15	0.77
308	50	5.65	5.65	5774.	0.	0.21	1.07	5.65	5.65	4640.	0.	0.17	0.86
309	50	5.65	5.65	5634.	0.	0.20	1.05	5.65	5.65	4985.	0.	0.18	0.93
310	50	5.65	5.65	5101.	0.	0.18	0.95	5.65	5.65	5237.	0.	0.19	0.97
311	50	5.65	5.65	4148.	0.	0.15	0.77	5.65	5.65	5326.	0.	0.19	0.99
312	50	5.65	5.65	2859.	0.	0.10	0.53	5.65	5.65	5305.	0.	0.19	0.99
313	50	5.65	5.65	1150.	0.	0.04	0.21	5.65	5.65	5104.	0.	0.18	0.95
314	50	5.65	5.65	919.	0.	0.03	0.17	5.65	5.65	5457.	0.	0.20	1.01
315	50	5.65	5.65	1494.	0.	0.05	0.28	5.65	5.65	5343.	0.	0.19	0.99
316	50	5.65	5.65	2362.	0.	0.09	0.44	5.65	5.65	5230.	0.	0.19	0.97
317	50	5.65	5.65	3032.	0.	0.11	0.56	5.65	5.65	5551.	0.	0.20	1.03
318	50	5.65	5.65	3324.	0.	0.12	0.62	5.65	5.65	6275.	0.	0.23	1.17
319	50	5.65	5.65	3058.	0.	0.11	0.57	5.65	5.65	6635.	0.	0.24	1.23
320	50	5.65	5.65	2423.	0.	0.09	0.45	5.65	5.65	7231.	0.	0.26	1.34
321	50	5.65	5.65	465.	0.	0.02	0.09	5.65	5.65	4754.	0.	0.17	0.88
322	50	5.65	5.65	1736.	0.	0.06	0.32	5.65	5.65	4328.	0.	0.16	0.80
323	50	5.65	5.65	2718.	0.	0.10	0.51	5.65	5.65	3884.	0.	0.14	0.72
324	50	5.65	5.65	3035.	0.	0.11	0.56	5.65	5.65	3565.	0.	0.13	0.66
325	50	5.65	5.65	3315.	0.	0.12	0.62	5.65	5.65	3593.	0.	0.13	0.67
326	50	5.65	5.65	2980.	0.	0.11	0.55	5.65	5.65	3569.	0.	0.13	0.66
327	50	5.65	5.65	2018.	0.	0.07	0.38	5.65	5.65	3601.	0.	0.13	0.67
328	50	5.65	5.65	2926.	0.	0.11	0.54	5.65	5.65	3983.	0.	0.14	0.74
329	50	5.65	5.65	4692.	0.	0.17	0.87	5.65	5.65	4300.	0.	0.16	0.80
330	50	5.65	5.65	3521.	0.	0.13	0.65	5.65	5.65	4631.	0.	0.17	0.86
331	50	5.65	5.65	4805.	0.	0.17	0.89	5.65	5.65	4711.	0.	0.17	0.88
332	50	5.65	5.65	5478.	0.	0.20	1.02	5.65	5.65	4587.	0.	0.17	0.85
333	50	5.65	5.65	5737.	0.	0.21	1.07	5.65	5.65	4856.	0.	0.18	0.90
334	50	5.65	5.65	5600.	0.	0.20	1.04	5.65	5.65	4891.	0.	0.18	0.91
335	50	5.65	5.65	5082.	0.	0.18	0.94	5.65	5.65	4879.	0.	0.18	0.91
336	50	5.65	5.65	4114.	0.	0.15	0.76	5.65	5.65	4737.	0.	0.17	0.88
337	50	5.65	5.65	2680.	0.	0.10	0.50	5.65	5.65	4362.	0.	0.16	0.81
338	50	5.65	5.65	412.	0.	0.01	0.08	5.65	5.65	3866.	0.	0.14	0.72
339	50	5.65	5.65	5326.	0.	0.19	0.99	5.65	5.65	4770.	0.	0.17	0.89
340	50	5.65	5.65	5398.	0.	0.19	1.00	5.65	5.65	4753.	0.	0.17	0.88
341	50	5.65	5.65	5307.	0.	0.19	0.99	5.65	5.65	4544.	0.	0.16	0.84
342	50	5.65	5.65	4825.	0.	0.17	0.90	5.65	5.65	4013.	0.	0.14	0.75
343	50	5.65	5.65	3792.	0.	0.14	0.71	5.65	5.65	3231.	0.	0.12	0.60
344	50	5.65	5.65	2207.	0.	0.08	0.41	5.65	5.65	2315.	0.	0.08	0.43
345	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1554.	0.	0.06	0.29
354	50	5.65	5.65	3848.	0.	0.14	0.72	5.65	5.65	4952.	0.	0.18	0.92
355	50	5.65	5.65	4687.	0.	0.17	0.87	5.65	5.65	4916.	0.	0.18	0.91
356	50	5.65	5.65	4045.	0.	0.15	0.75	5.65	5.65	4905.	0.	0.18	0.91
357	50	5.65	5.65	4642.	0.	0.17	0.86	5.65	5.65	4573.	0.	0.17	0.85
358	50	5.65	5.65	4132.	0.	0.15							

361	50	5.65	5.65	4227.	0.	0.15	0.79	5.65	5.65	4183.	0.	0.15	0.78
362	50	5.65	5.65	3761.	0.	0.14	0.70	5.65	5.65	2731.	0.	0.10	0.51
363	50	5.65	5.65	4657.	0.	0.17	0.87	5.65	5.65	4473.	0.	0.16	0.83
364	50	5.65	5.65	4795.	0.	0.17	0.89	5.65	5.65	3903.	0.	0.14	0.73
365	50	5.65	5.65	4338.	0.	0.16	0.81	5.65	5.65	2985.	0.	0.11	0.55
366	50	5.65	5.65	3237.	0.	0.12	0.60	5.65	5.65	1723.	0.	0.06	0.32
367	50	5.65	5.65	1644.	0.	0.06	0.31	5.65	5.65	816.	0.	0.03	0.15
368	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	537.	0.	0.02	0.10
369	50	5.65	5.65	3833.	0.	0.14	0.71	5.65	5.65	3635.	0.	0.13	0.68
370	50	5.65	5.65	4260.	0.	0.15	0.79	5.65	5.65	2962.	0.	0.11	0.55
371	50	5.65	5.65	3681.	0.	0.13	0.68	5.65	5.65	2216.	0.	0.08	0.41
372	50	5.65	5.65	2513.	0.	0.09	0.47	5.65	5.65	1635.	0.	0.06	0.30
373	50	5.65	5.65	1057.	0.	0.04	0.20	5.65	5.65	1539.	0.	0.06	0.29
374	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1757.	0.	0.06	0.33
375	50	5.65	5.65	3410.	0.	0.12	0.63	5.65	5.65	2198.	0.	0.08	0.41
376	50	5.65	5.65	3879.	0.	0.14	0.72	5.65	5.65	1600.	0.	0.06	0.30
377	50	5.65	5.65	3231.	0.	0.12	0.60	5.65	5.65	1168.	0.	0.04	0.22
378	50	5.65	5.65	2046.	0.	0.07	0.38	5.65	5.65	1180.	0.	0.04	0.22
379	50	5.65	5.65	1079.	0.	0.04	0.20	5.65	5.65	1398.	0.	0.05	0.26
380	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1657.	0.	0.06	0.31
381	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3376.	0.	0.12	0.63
382	50	5.65	5.65	1765.	0.	0.06	0.33	5.65	5.65	3523.	0.	0.13	0.66
383	50	5.65	5.65	2841.	0.	0.10	0.53	5.65	5.65	3436.	0.	0.12	0.64
384	50	5.65	5.65	3445.	0.	0.12	0.64	5.65	5.65	3024.	0.	0.11	0.56
385	50	5.65	5.65	3463.	0.	0.13	0.64	5.65	5.65	2101.	0.	0.08	0.39
386	50	5.65	5.65	2772.	0.	0.10	0.52	5.65	5.65	1762.	0.	0.06	0.33
387	50	5.65	5.65	1577.	0.	0.06	0.29	5.65	5.65	1360.	0.	0.05	0.25
388	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1276.	0.	0.05	0.24
389	50	5.65	5.65	1423.	0.	0.05	0.26	5.65	5.65	1867.	0.	0.07	0.35
390	50	5.65	5.65	2762.	0.	0.10	0.51	5.65	5.65	2552.	0.	0.09	0.47
391	50	5.65	5.65	3454.	0.	0.12	0.64	5.65	5.65	3232.	0.	0.12	0.60
392	50	5.65	5.65	3691.	0.	0.13	0.69	5.65	5.65	3632.	0.	0.13	0.68
393	50	5.65	5.65	3438.	0.	0.12	0.64	5.65	5.65	3816.	0.	0.14	0.71
394	50	5.65	5.65	2448.	0.	0.09	0.46	5.65	5.65	4075.	0.	0.15	0.76
395	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	598.	0.	0.02	0.11
396	50	5.65	5.65	1123.	0.	0.04	0.21	5.65	5.65	1064.	0.	0.04	0.20
397	50	5.65	5.65	2326.	0.	0.08	0.43	5.65	5.65	1768.	0.	0.06	0.33
398	50	5.65	5.65	3219.	0.	0.12	0.60	5.65	5.65	3182.	0.	0.11	0.59
399	50	5.65	5.65	3604.	0.	0.13	0.67	5.65	5.65	4134.	0.	0.15	0.77
400	50	5.65	5.65	3453.	0.	0.12	0.64	5.65	5.65	4658.	0.	0.17	0.87
401	50	5.65	5.65	2900.	0.	0.10	0.54	5.65	5.65	5103.	0.	0.18	0.95
402	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2029.	0.	0.07	0.38
403	50	5.65	5.65	1224.	0.	0.04	0.23	5.65	5.65	2346.	0.	0.08	0.44
404	50	5.65	5.65	1830.	0.	0.07	0.34	5.65	5.65	2501.	0.	0.09	0.46
405	50	5.65	5.65	2494.	0.	0.09	0.46	5.65	5.65	2991.	0.	0.11	0.56
406	50	5.65	5.65	3007.	0.	0.11	0.56	5.65	5.65	3778.	0.	0.14	0.70
407	50	5.65	5.65	3048.	0.	0.11	0.57	5.65	5.65	4296.	0.	0.16	0.80
408	50	5.65	5.65	2388.	0.	0.09	0.44	5.65	5.65	4754.	0.	0.17	0.88
409	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1924.	0.	0.07	0.36
410	50	5.65	5.65	1353.	0.	0.05	0.25	5.65	5.65	2154.	0.	0.08	0.40
411	50	5.65	5.65	1775.	0.	0.06	0.33	5.65	5.65	2236.	0.	0.08	0.42
412	50	5.65	5.65	1957.	0.	0.07	0.36	5.65	5.65	2107.	0.	0.08	0.39
413	50	5.65	5.65	2519.	0.	0.09	0.47	5.65	5.65	2588.	0.	0.09	0.48
414	50	5.65	5.65	2614.	0.	0.09	0.49	5.65	5.65	2987.	0.	0.11	0.56
415	50	5.65	5.65	2069.	0.	0.07	0.38	5.65	5.65	3386.	0.	0.12	0.63
416	50	5.65	5.65	3066.	0.	0.11	0.57	5.65	5.65	66.	0.	0.00	0.01
417	50	5.65	5.65	3534.	0.	0.13	0.66	5.65	5.65	0.	0.	0.00	0.00
418	50	5.65	5.65	2837.	0.	0.10	0.53	5.65	5.65	0.	0.	0.00	0.00
419	50	5.65	5.65	1657.	0.	0.06	0.31	5.65	5.65	179.	0.	0.01	0.03
420	50	5.65	5.65	822.	0.	0.03	0.15	5.65	5.65	245.	0.	0.01	0.05
421	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	357.	0.	0.01	0.07
422	50	5.65	5.65	1.	0.	0.00	0.00	5.65	5.65	504.	0.	0.02	0.09
423	50	5.65	5.65	1205.	0.	0.04	0.22	5.65	5.65	597.	0.	0.02	0.11
424	50	5.65	5.65	1639.	0.	0.06	0.30	5.65	5.65	551.	0.	0.02	0.10
425	50	5.65	5.65	1457.	0.	0.05	0.27	5.65	5.65	368.	0.	0.01	0.07
426	50	5.65	5.65	1980.	0.	0.07	0.37	5.65	5.65	392.	0.	0.01	0.07
427	50	5.65	5.65	2157.	0.	0.08	0.40	5.65	5.65	655.	0.	0.02	0.12
428	50	5.65	5.65	1730.	0.	0.06	0.32	5.65	5.65	938.	0.	0.03	0.17

L'ARMATURA È OVUNQUE > DELLA QUANTITÀ RICHIESTA: IL PUNTO 2.3 DELLE NTC È VERIFICATO (Rd > Ed)

MACROGUSCIO fondazione_piano_ter

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

CASI DI CARICO: -->

Nome Descrizione
10 Rara (RARA)
11 Frequente (FREQUENTE)
12 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 5 cm
copriferro superiore (asse armatura): 3 cm

Af = area effettiva tesa (cm2 al metro)

Afc = area effettiva compressa (cm2 al metro)

Mom = momento flettente [kgfm/m]

Nor = sforzo normale [daN]

σc = tensione calcestruzzo [daN/cm2]
valore max per combinazione rara = 149.4 daN/cm2
quasi permanente = 112 daN/cm2

σf = tensione acciaio [daN/cm2]
valore max per combinazione rara = 3600 daN/cm2

wkf = apertura caratteristica per combinazione frequente (mm) - valore max = 0.4 mm
wkf = apertura caratteristica per combinazione quasi permanente (mm) - valore max = 0.3 mm

<--

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA				COMB. FREQUENTE			COMB. QUASI PERMANENTE			
			Mom	Nor	σc	σf	Mom	Nor	WKF	Mom	Nor	σc	WKF
97	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
98	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
99	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
100	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
101	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
102	5.65	5.65	25	0.	0.14	10.	0.	0.	0.000	0.	0.	0.00	0.000
103	5.65	5.65	1968	0.	11.05	807.	1643	0.	0.090	1517	0.	8.53	0.083
104	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
105	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
106	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
107	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
108	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
109	5.65	5.65	115	0.	0.65	47.	0.	0.	0.000	0.	0.	0.00	0.000
110	5.65	5.65	2443	0.	13.73	1002.	2046	0.	0.112	1893	0.	10.64	0.104
111	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
112	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
113	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
114	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
115	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
116	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
117	5.65	5.65	2678	0.	15.05	1099.	2272	0.	0.125	2115	0.	11.88	0.116
118	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
119	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
120	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
121	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
122	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
123	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
124	5.65	5.65	2682	0.	15.07	1101.	2271	0.	0.125	2114	0.	11.88	0.116
125	5.65	5.65	2363	0.	13.28	970.	2012	0.	0.110	1877	0.	10.54	0.103
126	5.65	5.65	864	0.	4.85	354.	717	0.	0.039	664	0.	3.73	0.036
127	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
128	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
129	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
130	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
131	5.65	5.65	642	0.	3.61	263.	571	0.	0.031	542	0.	3.05	0.030
132	5.65	5.65	2826	0.	15.88	1160.	2421	0.	0.133	2267	0.	12.74	0.124
133	5.65	5.65	954	0.	5.36	391.	800	0.	0.044	744	0.	4.18	0.041
134	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
135	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
136	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
137	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
138	5.65	5.65	797	0.	4.48	327.	697	0.	0.038	657	0.	3.69	0.036
139	5.65	5.65	3068	0.	17.24	1259.	2623	0.	0.144	2452	0.	13.78	0.135
140	5.65	5.65	805	0.	4.52	330.	656	0.	0.036	598	0.	3.36	0.033
141	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
142	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
143	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
144	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
145	5.65	5.65	969	0.	5.44	397.	837	0.	0.046	785	0.	4.41	0.043
146	5.65	5.65	3056	0.	17.17	1254.	2612	0.	0.143	2442	0.	13.72	0.134
147	5.65	5.65	898	0.	5.04	368.	738	0.	0.040	677	0.	3.81	0.037
148	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
149	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
150	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
151	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
152	5.65	5.65	1122	0.	6.30	460.	951	0.	0.052	884	0.	4.97	0.049
153	5.65	5.65	741	0.	4.16	304.	632	0.	0.035	589	0.	3.31	0.032
154	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
155	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
156	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
157	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
158	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
159	5.65	5.65	686	0.	3.85	281.	607	0.	0.033	575	0.	3.23	0.032
160	5.65	5.65	930	0.	5.22	382.	795	0.	0.044	741	0.	4.16	0.041
161	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
162	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
163	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
164	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
165	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
166	5.65	5.65	222	0.	1.25	91.	201	0.	0.011	193	0.	1.09	0.011
167	5.65	5.65	1069	0.	6.01	439.	914	0.	0.050	852	0.	4.79	0.047
168	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
169	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
170	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
171	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
172	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
173	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
174	5.65	5.65	1135	0.	6.38	466.	966	0.	0.053	899	0.	5.05	0.049
175	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
176	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
177	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
178	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
179	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
180	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
181	5.65	5.65	1860	0.	10.45	763.	1751	0.	0.096	1747	0.	9.81	0.096
182	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
183	5.65	5.65	1554	0.	8.73	637.	1449	0.	0.079	1435	0.	8.06	0.079
184	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
185	5.65	5.65	1262	0.	7.09	518.	1235	0.	0.068	1247	0.	7.01	0.068
186	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
187	5.65	5.65	753	0.	4.23	309.	756	0.	0.041	766	0.	4.30	0.042
188	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
189	5.65	5.65	706	0.	3.97	290.	703	0.	0.039	704	0.	3.95	0.039
190	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
191	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
192	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
193	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
194	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
195	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
196	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
197	5.65	5.65	2437	0.	13.69	1000.	2053	0.	0.113	1907	0.	10.71	0.105

198	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
199	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
200	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
201	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
202	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
203	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
204	5.65	5.65	1922	0.	10.80	789.	1599	0.0088	1476	0.	8.30	0.081
205	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
206	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
207	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
208	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
209	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
210	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
211	5.65	5.65	700	0.	3.93	287.	526	0.0029	460	0.	2.58	0.025
212	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
213	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
214	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
215	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
216	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
217	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
218	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
219	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
220	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
221	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
222	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
223	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
224	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
225	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
226	5.65	5.65	2837	0.	15.94	1164.	2422	0.0133	2264	0.	12.72	0.124
227	5.65	5.65	917	0.	5.15	376.	756	0.0041	696	0.	3.91	0.038
228	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
229	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
230	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
231	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
232	5.65	5.65	1159	0.	6.51	476.	980	0.0054	910	0.	5.11	0.050
233	5.65	5.65	2355	0.	13.23	966.	2002	0.0110	1868	0.	10.50	0.102
234	5.65	5.65	856	0.	4.81	351.	704	0.0039	647	0.	3.64	0.036
235	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
236	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
237	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
238	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
239	5.65	5.65	1078	0.	6.05	442.	914	0.0050	850	0.	4.77	0.047
240	5.65	5.65	1102	0.	6.19	452.	898	0.0049	822	0.	4.62	0.045
241	5.65	5.65	239	0.	1.35	98.	152	0.0008	122	0.	0.68	0.007
242	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
243	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
244	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
245	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
246	5.65	5.65	978	0.	5.49	401.	835	0.0046	779	0.	4.38	0.043
247	5.65	5.65	38	0.	0.21	16.	0.	0.0000	0.	0.	0.00	0.000
248	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
249	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
250	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
251	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
252	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
253	5.65	5.65	1057	0.	5.94	434.	898	0.0049	836	0.	4.70	0.046
254	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
255	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
256	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
257	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
258	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
259	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
260	5.65	5.65	1357	0.	7.63	557.	1125	0.0062	1035	0.	5.81	0.057
261	5.65	5.65	1205	0.	6.77	494.	1019	0.0056	947	0.	5.32	0.052
262	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
263	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
264	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
265	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
266	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
267	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
268	5.65	5.65	1170	0.	6.57	480.	990	0.0054	920	0.	5.17	0.050
269	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
270	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
271	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
272	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
273	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
274	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
275	5.65	5.65	1052	0.	5.91	432.	905	0.0050	847	0.	4.76	0.046
276	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
277	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
278	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
279	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
280	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
281	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
282	5.65	5.65	917	0.	5.15	376.	799	0.0044	752	0.	4.23	0.041
283	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
284	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
285	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
286	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
287	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
288	5.65	5.65	335	0.	1.88	137.	259	0.0014	230	0.	1.29	0.013
289	5.65	5.65	980	0.	5.51	402.	868	0.0048	824	0.	4.63	0.045
290	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
291	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
292	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
293	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
294	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
295	5.65	5.65	865	0.	4.86	355.	710	0.0039	648	0.	3.64	0.036
296	5.65	5.65	889	0.	5.00	365.	865	0.0047	857	0.	4.82	0.047
297	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
298	5.65	5.65	1237	0.	6.95	508.	1185	0.0065	1166	0.	6.55	0.064
299	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
300	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
301	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000

302	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
303	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
304	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
305	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
306	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
307	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
308	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
309	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
310	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
311	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
312	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
313	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
314	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
315	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
316	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
317	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
318	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
319	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
320	5.65	5.65	1489	0.	8.37	611.	1292	0.0071	1153	0.	6.48	0.063
321	5.65	5.65	11	0.	0.06	5.	0.	0.0000	0.	0.	0.00	0.000
322	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
323	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
324	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
325	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
326	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
327	5.65	5.65	598	0.	3.36	246.	472	0.0026	368	0.	2.07	0.020
328	5.65	5.65	1741	0.	9.78	714.	1652	0.0091	1620	0.	9.10	0.089
329	5.65	5.65	5	0.	0.03	2.	71	0.0004	96	0.	0.54	0.005
330	5.65	5.65	2349	0.	13.20	964.	2219	0.0122	2170	0.	12.19	0.119
331	5.65	5.65	770	0.	4.33	316.	784	0.0043	790	0.	4.44	0.043
332	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
333	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
334	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
335	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
336	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
337	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
338	5.65	5.65	659	0.	3.70	270.	519	0.0028	461	0.	2.59	0.025
339	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
340	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
341	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
342	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
343	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
344	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
345	5.65	5.65	1049	0.	5.90	431.	871	0.0048	798	0.	4.48	0.044
354	5.65	5.65	2731	0.	15.34	1120.	2574	0.0141	2516	0.	14.14	0.138
355	5.65	5.65	1591	0.	8.94	653.	1550	0.0085	1534	0.	8.62	0.084
356	5.65	5.65	2959	0.	16.63	1214.	2788	0.0153	2724	0.	15.30	0.149
357	5.65	5.65	2005	0.	11.27	823.	1936	0.0106	1910	0.	10.73	0.105
358	5.65	5.65	3153	0.	17.72	1294.	2969	0.0163	2900	0.	16.29	0.159
359	5.65	5.65	2457	0.	13.80	1008.	2358	0.0129	2320	0.	13.03	0.127
360	5.65	5.65	575	0.	3.23	236.	633	0.0035	654	0.	3.68	0.036
361	5.65	5.65	1037	0.	5.83	426.	1066	0.0058	1077	0.	6.05	0.059
362	5.65	5.65	1579	0.	8.87	648.	1575	0.0086	1574	0.	8.84	0.086
363	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
364	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
365	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
366	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
367	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
368	5.65	5.65	1226	0.	6.89	503.	1043	0.0057	969	0.	5.44	0.053
369	5.65	5.65	5	0.	0.03	2.	102	0.0006	139	0.	0.78	0.008
370	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
371	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
372	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
373	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
374	5.65	5.65	1210	0.	6.80	496.	1061	0.0058	999	0.	5.62	0.055
375	5.65	5.65	377	0.	2.12	155.	449	0.0025	477	0.	2.68	0.026
376	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
377	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
378	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
379	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
380	5.65	5.65	1091	0.	6.13	448.	860	0.0047	788	0.	4.43	0.043
381	5.65	5.65	700	0.	3.93	287.	556	0.0030	498	0.	2.80	0.027
382	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
383	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
384	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
385	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
386	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
387	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
388	5.65	5.65	1101	0.	6.19	452.	919	0.0050	846	0.	4.76	0.046
389	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
390	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
391	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
392	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
393	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
394	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
395	5.65	5.65	1327	0.	7.45	544.	1139	0.0062	1062	0.	5.97	0.058
396	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
397	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
398	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
399	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
400	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
401	5.65	5.65	541	0.	3.04	222.	232	0.0013	119	0.	0.67	0.007
402	5.65	5.65	1626	0.	9.14	667.	1458	0.0080	1389	0.	7.80	0.076
403	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
404	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
405	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
406	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
407	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
408	5.65	5.65	277	0.	1.56	114.	99	0.0005	39	0.	0.22	0.002
409	5.65	5.65	1669	0.	9.38	685.	1504	0.0083	1436	0.	8.07	0.079
410	5.65	5.65	439	0.	2.47	180.	423	0.0023	391	0.	2.20	0.021
411	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
412	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
413	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000

414	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
415	5.65	5.65	60	0.	0.33	24.	0.	0.0000	0.	0.	0.00	0.000
416	5.65	5.65	760	0.	4.27	312.	803	0.0044	820	0.	4.61	0.045
417	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
418	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
419	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
420	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
421	5.65	5.65	658	0.	3.70	270.	536	0.0029	493	0.	2.77	0.027
422	5.65	5.65	1183	0.	6.65	485.	1078	0.0059	1032	0.	5.80	0.057
423	5.65	5.65	633	0.	3.55	260.	602	0.0033	588	0.	3.30	0.032
424	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
425	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
426	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
427	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
428	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA						COMB. FREQUENTE			COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	wkf	Mom	Nor	σc	wkp
97	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
98	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
99	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
100	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
101	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
102	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
103	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
104	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
105	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
106	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
107	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
108	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
109	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
110	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
111	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
112	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
113	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
114	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
115	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
116	5.65	5.65	216	0.	1.22	89.	156	0.0009	135	0.	0.76	0.007	
117	5.65	5.65	236	0.	1.33	97.	175	0.0010	154	0.	0.87	0.008	
118	5.65	5.65	0.	0.	0.00	0.	0.	0.000	28	0.	0.16	0.002	
119	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
120	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
121	5.65	5.65	164	0.	0.92	67.	133	0.0007	125	0.	0.70	0.007	
122	5.65	5.65	944	0.	5.30	387.	804	0.0044	754	0.	4.24	0.041	
123	5.65	5.65	1851	0.	10.40	760.	1592	0.0087	1496	0.	8.41	0.082	
124	5.65	5.65	2255	0.	12.67	925.	1946	0.0107	1831	0.	10.29	0.100	
125	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
126	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
127	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
128	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
129	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
130	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
131	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
132	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
133	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
134	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
135	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
136	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
137	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
138	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
139	5.65	5.65	230	0.	1.29	94.	190	0.0010	178	0.	1.00	0.010	
140	5.65	5.65	301	0.	1.69	123.	253	0.0014	239	0.	1.34	0.013	
141	5.65	5.65	247	0.	1.39	102.	207	0.0011	195	0.	1.10	0.011	
142	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
143	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
144	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
145	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
146	5.65	5.65	2322	0.	13.04	952.	2005	0.0110	1887	0.	10.60	0.103	
147	5.65	5.65	2028	0.	11.40	832.	1748	0.0096	1644	0.	9.24	0.090	
148	5.65	5.65	1356	0.	7.62	556.	1158	0.0064	1084	0.	6.09	0.059	
149	5.65	5.65	747	0.	4.20	307.	620	0.0034	574	0.	3.23	0.031	
150	5.65	5.65	805	0.	4.52	330.	664	0.0036	607	0.	3.41	0.033	
151	5.65	5.65	697	0.	3.91	286.	567	0.0031	518	0.	2.91	0.028	
152	5.65	5.65	478	0.	2.69	196.	376	0.0021	338	0.	1.90	0.019	
153	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
154	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
155	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
156	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
157	5.65	5.65	197	0.	1.10	81.	180	0.0010	174	0.	0.98	0.010	
158	5.65	5.65	496	0.	2.79	204.	440	0.0024	418	0.	2.35	0.023	
159	5.65	5.65	593	0.	3.33	243.	525	0.0029	499	0.	2.80	0.027	
160	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
161	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
162	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
163	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
164	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
165	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
166	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
167	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
168	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
169	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
170	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
171	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
172	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
173	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
174	5.65	5.65	139	0.	0.78	57.	83	0.0005	63	0.	0.35	0.003	
175	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
176	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
177	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
178	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
179	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
180	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	

181	5.65	5.65	175	0.	0.99	72.	168	0.	0.009	169	0.	0.95	0.009
182	5.65	5.65	11	0.	0.06	4.	25	0.	0.001	34	0.	0.19	0.002
183	5.65	5.65	29	0.	0.16	12.	38	0.	0.002	43	0.	0.24	0.002
184	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
185	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
186	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
187	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
188	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
189	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
190	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
191	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
192	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
193	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
194	5.65	5.65	202	0.	1.13	83.	156	0.	0.009	142	0.	0.80	0.008
195	5.65	5.65	1109	0.	6.23	455.	919	0.	0.050	853	0.	4.79	0.047
196	5.65	5.65	1820	0.	10.23	747.	1579	0.	0.087	1493	0.	8.39	0.082
197	5.65	5.65	1857	0.	10.44	762.	1610	0.	0.088	1522	0.	8.55	0.083
198	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
199	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
200	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
201	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
202	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
203	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
204	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
205	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
206	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
207	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
208	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
209	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
210	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
211	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
212	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
213	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
214	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
215	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
216	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
217	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
218	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
219	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
220	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
221	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
222	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
223	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
224	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
225	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
226	5.65	5.65	1900	0.	10.68	780.	1619	0.	0.089	1517	0.	8.52	0.083
227	5.65	5.65	1915	0.	10.76	786.	1631	0.	0.089	1527	0.	8.58	0.084
228	5.65	5.65	1549	0.	8.70	635.	1316	0.	0.072	1231	0.	6.91	0.068
229	5.65	5.65	913	0.	5.13	375.	765	0.	0.042	712	0.	4.00	0.039
230	5.65	5.65	517	0.	2.90	212.	416	0.	0.023	381	0.	2.14	0.021
231	5.65	5.65	458	0.	2.57	188.	360	0.	0.020	325	0.	1.83	0.018
232	5.65	5.65	350	0.	1.97	144.	263	0.	0.014	232	0.	1.30	0.013
233	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
234	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
235	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
236	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
237	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
238	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
239	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
240	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
241	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
242	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
243	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
244	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
245	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
246	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
247	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
248	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
249	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
250	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
251	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
252	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
253	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
254	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
255	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
256	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
257	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
258	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
259	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
260	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
261	5.65	5.65	139	0.	0.78	57.	79	0.	0.004	58	0.	0.32	0.003
262	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
263	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
264	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
265	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
266	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
267	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
268	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
269	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
270	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
271	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
272	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
273	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
274	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
275	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
276	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
277	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
278	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
279	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
280	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
281	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
282	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
283	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
284	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000

285	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
286	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
287	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
288	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
289	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
290	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
291	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
292	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
293	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
294	5.65	5.65	364	0.	2.04	149.	260	0.0014	219	0.	1.23	0.012
295	5.65	5.65	799	0.	4.49	328.	671	0.0037	620	0.	3.48	0.034
296	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
297	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
298	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
299	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
300	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
301	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
302	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
303	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
304	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
305	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
306	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
307	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
308	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
309	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
310	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
311	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
312	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
313	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
314	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
315	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
316	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
317	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
318	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
319	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
320	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
321	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
322	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
323	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
324	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
325	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
326	5.65	5.65	386	0.	2.17	158.	133	0.0007	31	0.	0.17	0.002
327	5.65	5.65	1551	0.	8.71	636.	1136	0.0062	969	0.	5.44	0.053
328	5.65	5.65	198	0.	1.11	81.	201	0.0011	201	0.	1.13	0.011
329	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
330	5.65	5.65	717	0.	4.03	294.	682	0.0037	668	0.	3.75	0.037
331	5.65	5.65	280	0.	1.57	115.	273	0.0015	269	0.	1.51	0.015
332	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
333	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
334	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
335	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
336	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
337	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
338	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
339	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
340	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
341	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
342	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
343	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
344	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
345	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
346	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
347	5.65	5.65	1351	0.	7.59	554.	1277	0.0070	1249	0.	7.02	0.069
348	5.65	5.65	856	0.	4.81	351.	815	0.0045	798	0.	4.48	0.044
349	5.65	5.65	2074	0.	11.65	851.	1962	0.0108	1919	0.	10.78	0.105
350	5.65	5.65	1602	0.	9.00	657.	1522	0.0083	1491	0.	8.38	0.082
351	5.65	5.65	3234	0.	18.17	1327.	3061	0.0168	2996	0.	16.83	0.164
352	5.65	5.65	2943	0.	16.53	1207.	2789	0.0153	2731	0.	15.34	0.150
353	5.65	5.65	412	0.	2.32	169.	398	0.0022	392	0.	2.20	0.021
354	5.65	5.65	1150	0.	6.46	472.	1101	0.0060	1081	0.	6.07	0.059
355	5.65	5.65	2574	0.	14.46	1056.	2448	0.0134	2400	0.	13.48	0.132
356	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
357	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
358	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
359	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
360	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
361	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
362	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
363	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
364	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
365	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
366	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
367	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
368	5.65	5.65	91	0.	0.51	37.	0.	0.0000	0.	0.	0.00	0.000
369	5.65	5.65	423	0.	2.38	174.	424	0.0023	423	0.	2.37	0.023
370	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
371	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
372	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
373	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
374	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
375	5.65	5.65	1962	0.	11.02	805.	1884	0.0103	1854	0.	10.41	0.102
376	5.65	5.65	1180	0.	6.63	484.	1158	0.0064	1149	0.	6.46	0.063
377	5.65	5.65	236	0.	1.33	97.	338	0.0019	384	0.	2.16	0.021
378	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
379	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
380	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
381	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
382	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
383	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
384	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
385	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
386	5.65	5.65	204	0.	1.14	84.	0.	0.0000	0.	0.	0.00	0.000
387	5.65	5.65	913	0.	5.13	374.	485	0.0027	316	0.	1.78	0.017
388	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
389	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
390	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
391	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
392	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
393	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
394	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
395	5.65	5.65	24	0.	0.13	10.	0.	0.0000	0.	0.	0.00	0.000
396	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000

397	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
398	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
399	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
400	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
401	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
402	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
403	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
404	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
405	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
406	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
407	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
408	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
409	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
410	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
411	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
412	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
413	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
414	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
415	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
416	5.65	5.65	2764	0.	15.53	1134.	2645	0.0.145	2598	0.	14.60	0.143
417	5.65	5.65	2345	0.	13.17	962.	2263	0.0.124	2231	0.	12.54	0.122
418	5.65	5.65	2000	0.	11.24	820.	1948	0.0.107	1928	0.	10.83	0.106
419	5.65	5.65	1376	0.	7.73	564.	1378	0.0.076	1379	0.	7.75	0.076
420	5.65	5.65	974	0.	5.47	400.	1005	0.0.055	1017	0.	5.71	0.056
421	5.65	5.65	792	0.	4.45	325.	832	0.0.046	847	0.	4.76	0.046
422	5.65	5.65	752	0.	4.23	309.	789	0.0.043	801	0.	4.50	0.044
423	5.65	5.65	752	0.	4.22	308.	784	0.0.043	794	0.	4.46	0.044
424	5.65	5.65	692	0.	3.89	284.	731	0.0.040	743	0.	4.18	0.041
425	5.65	5.65	519	0.	2.92	213.	582	0.0.032	604	0.	3.39	0.033
426	5.65	5.65	276	0.	1.55	113.	329	0.0.018	370	0.	2.08	0.020
427	5.65	5.65	339	0.	1.90	139.	294	0.0.016	292	0.	1.64	0.016
428	5.65	5.65	435	0.	2.44	179.	383	0.0.021	345	0.	1.94	0.019

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA						COMB. FREQUENTE			COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	wkF	Mom	Nor	σc	wkP
97	5.65	5.65	889	0.	5.00	365.	810	0.	0.044	781	0.	4.39	0.043
98	5.65	5.65	2261	0.	12.71	928.	2063	0.	0.113	1989	0.	11.18	0.109
99	5.65	5.65	2867	0.	16.11	1176.	2594	0.	0.142	2490	0.	13.99	0.137
100	5.65	5.65	2714	0.	15.25	1113.	2480	0.	0.136	2391	0.	13.43	0.131
101	5.65	5.65	1805	0.	10.14	741.	1682	0.	0.092	1636	0.	9.19	0.090
102	5.65	5.65	195	0.	1.09	80.	261	0.	0.014	288	0.	1.62	0.016
103	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
104	5.65	5.65	1703	0.	9.57	699.	1557	0.	0.085	1504	0.	8.45	0.082
105	5.65	5.65	2734	0.	15.36	1121.	2495	0.	0.137	2407	0.	13.52	0.133
106	5.65	5.65	3096	0.	17.40	1270.	2832	0.	0.155	2733	0.	15.36	0.150
107	5.65	5.65	2748	0.	15.44	1127.	2532	0.	0.139	2450	0.	13.77	0.134
108	5.65	5.65	1857	0.	10.43	762.	1729	0.	0.095	1681	0.	9.44	0.092
109	5.65	5.65	244	0.	1.37	100.	306	0.	0.017	330	0.	1.86	0.018
110	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
111	5.65	5.65	2492	0.	14.00	1023.	2274	0.	0.125	2194	0.	12.33	0.120
112	5.65	5.65	3179	0.	17.86	1304.	2897	0.	0.159	2793	0.	15.69	0.153
113	5.65	5.65	3395	0.	19.08	1393.	3100	0.	0.170	2989	0.	16.79	0.164
114	5.65	5.65	2998	0.	16.84	1230.	2753	0.	0.151	2660	0.	14.95	0.146
115	5.65	5.65	1898	0.	10.66	779.	1787	0.	0.098	1745	0.	9.80	0.096
116	5.65	5.65	129	0.	0.73	53.	213	0.	0.012	246	0.	1.38	0.013
117	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
118	5.65	5.65	3463	0.	19.46	1421.	3155	0.	0.173	3041	0.	17.08	0.167
119	5.65	5.65	3826	0.	21.50	1570.	3482	0.	0.191	3354	0.	18.85	0.184
120	5.65	5.65	3837	0.	21.56	1574.	3494	0.	0.192	3366	0.	18.91	0.185
121	5.65	5.65	3355	0.	18.85	1376.	3066	0.	0.168	2958	0.	16.62	0.162
122	5.65	5.65	2265	0.	12.73	929.	2103	0.	0.115	2042	0.	11.47	0.112
123	5.65	5.65	303	0.	1.70	124.	372	0.	0.020	399	0.	2.24	0.022
124	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
125	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
126	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
127	5.65	5.65	397	0.	2.23	163.	386	0.	0.021	382	0.	2.15	0.021
128	5.65	5.65	944	0.	5.31	387.	856	0.	0.047	821	0.	4.62	0.045
129	5.65	5.65	927	0.	5.21	380.	827	0.	0.045	791	0.	4.45	0.043
130	5.65	5.65	409	0.	2.30	168.	371	0.	0.020	357	0.	2.01	0.020
131	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
132	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
133	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
134	5.65	5.65	430	0.	2.41	176.	411	0.	0.023	404	0.	2.27	0.022
135	5.65	5.65	1053	0.	5.92	432.	927	0.	0.051	876	0.	4.92	0.048
136	5.65	5.65	1066	0.	5.99	437.	928	0.	0.051	873	0.	4.90	0.048
137	5.65	5.65	453	0.	2.54	186.	385	0.	0.021	359	0.	2.02	0.020
138	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
139	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
140	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
141	5.65	5.65	549	0.	3.09	225.	504	0.	0.028	483	0.	2.72	0.027
142	5.65	5.65	1221	0.	6.86	501.	1074	0.	0.059	1015	0.	5.70	0.056
143	5.65	5.65	1179	0.	6.62	484.	1027	0.	0.056	967	0.	5.43	0.053
144	5.65	5.65	500	0.	2.81	205.	429	0.	0.024	402	0.	2.26	0.022
145	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
146	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
147	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
148	5.65	5.65	902	0.	5.07	370.	809	0.	0.044	771	0.	4.33	0.042
149	5.65	5.65	1453	0.	8.16	596.	1277	0.	0.070	1207	0.	6.78	0.066
150	5.65	5.65	1342	0.	7.54	550.	1171	0.	0.064	1104	0.	6.20	0.061
151	5.65	5.65	608	0.	3.42	250.	527	0.	0.029	496	0.	2.79	0.027
152	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
153	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
154	5.65	5.65	660	0.	3.71	271.	586	0.	0.032	557	0.	3.13	0.031
155	5.65	5.65	1755	0.	9.86	720.	1537	0.	0.084	1450	0.	8.15	0.080
156	5.65	5.65	2431	0.	13.66	997.	2120	0.	0.116	1997	0.	11.22	0.110
157	5.65	5.65	2660	0.	14.95	1091.	2315	0.	0.127	2178	0.	12.24	0.119
158	5.65	5.65	2368	0.	13.30	971.	2057	0.	0.113	1933	0.	10.86	0.106
159	5.65	5.65	1302	0.	7.31	534.	1121	0.	0.061	1049	0.	5.90	0.058
160	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
161	5.65	5.65	605	0.	3.40	248.	539	0.	0.030	513	0.	2.88	0.028
162	5.65	5.65	1639	0.	9.21	672.	1436	0.	0.079	1355	0.	7.61	0.074
163	5.65	5.65	2248	0.	12.63	922.	1962	0.	0.108	1848	0.	10.38	0.101

164	5.65	5.65	2427	0.	13.64	996.	2114	0.	0.116	1989	0.	11.18	0.109
165	5.65	5.65	2135	0.	12.00	876.	1857	0.	0.102	1747	0.	9.81	0.096
166	5.65	5.65	1180	0.	6.63	484.	1021	0.	0.056	957	0.	5.38	0.052
167	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
168	5.65	5.65	427	0.	2.40	175.	386	0.	0.021	370	0.	2.08	0.020
169	5.65	5.65	1452	0.	8.16	596.	1275	0.	0.070	1205	0.	6.77	0.066
170	5.65	5.65	2027	0.	11.39	832.	1772	0.	0.097	1670	0.	9.38	0.092
171	5.65	5.65	2176	0.	12.23	893.	1898	0.	0.104	1787	0.	10.04	0.098
172	5.65	5.65	1885	0.	10.59	773.	1643	0.	0.090	1547	0.	8.69	0.085
173	5.65	5.65	1030	0.	5.79	423.	896	0.	0.049	843	0.	4.73	0.046
174	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
175	5.65	5.65	473	0.	2.66	194.	412	0.	0.023	389	0.	2.18	0.021
176	5.65	5.65	1228	0.	6.90	504.	1063	0.	0.058	998	0.	5.61	0.055
177	5.65	5.65	1653	0.	9.29	678.	1450	0.	0.080	1369	0.	7.69	0.075
178	5.65	5.65	1744	0.	9.80	715.	1526	0.	0.084	1439	0.	8.08	0.079
179	5.65	5.65	1436	0.	8.07	589.	1258	0.	0.069	1187	0.	6.67	0.065
180	5.65	5.65	747	0.	4.20	307.	659	0.	0.036	624	0.	3.50	0.034
181	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
182	5.65	5.65	2271	0.	12.76	932.	2101	0.	0.115	2041	0.	11.46	0.112
183	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
184	5.65	5.65	2165	0.	12.17	888.	2001	0.	0.110	1941	0.	10.91	0.106
185	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
186	5.65	5.65	2160	0.	12.14	886.	1993	0.	0.109	1932	0.	10.86	0.106
187	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
188	5.65	5.65	2031	0.	11.41	833.	1869	0.	0.103	1808	0.	10.16	0.099
189	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
190	5.65	5.65	2257	0.	12.68	926.	2077	0.	0.114	2009	0.	11.29	0.110
191	5.65	5.65	3943	0.	22.15	1618.	3575	0.	0.196	3438	0.	19.32	0.189
192	5.65	5.65	4247	0.	23.86	1742.	3855	0.	0.211	3708	0.	20.84	0.203
193	5.65	5.65	4174	0.	23.45	1712.	3791	0.	0.208	3647	0.	20.49	0.200
194	5.65	5.65	3671	0.	20.62	1506.	3342	0.	0.183	3218	0.	18.08	0.177
195	5.65	5.65	2627	0.	14.76	1078.	2416	0.	0.133	2337	0.	13.13	0.128
196	5.65	5.65	840	0.	4.72	344.	836	0.	0.046	836	0.	4.69	0.046
197	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
198	5.65	5.65	4100	0.	23.03	1682.	3702	0.	0.203	3553	0.	19.96	0.195
199	5.65	5.65	4382	0.	24.62	1798.	3965	0.	0.218	3809	0.	21.40	0.209
200	5.65	5.65	4302	0.	24.17	1765.	3897	0.	0.214	3745	0.	21.04	0.205
201	5.65	5.65	3838	0.	21.56	1575.	3484	0.	0.191	3352	0.	18.83	0.184
202	5.65	5.65	2903	0.	16.31	1191.	2653	0.	0.146	2559	0.	14.38	0.140
203	5.65	5.65	1334	0.	7.50	547.	1264	0.	0.069	1239	0.	6.96	0.068
204	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
205	5.65	5.65	3775	0.	21.21	1549.	3394	0.	0.186	3251	0.	18.26	0.178
206	5.65	5.65	4232	0.	23.78	1736.	3821	0.	0.210	3667	0.	20.60	0.201
207	5.65	5.65	4214	0.	23.68	1729.	3811	0.	0.209	3659	0.	20.56	0.201
208	5.65	5.65	3802	0.	21.36	1560.	3446	0.	0.189	3312	0.	18.61	0.182
209	5.65	5.65	2974	0.	16.71	1220.	2710	0.	0.149	2611	0.	14.67	0.143
210	5.65	5.65	1690	0.	9.50	693.	1571	0.	0.086	1526	0.	8.58	0.084
211	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
212	5.65	5.65	3285	0.	18.45	1348.	2986	0.	0.164	2889	0.	16.23	0.158
213	5.65	5.65	3908	0.	21.96	1603.	3523	0.	0.193	3379	0.	18.98	0.185
214	5.65	5.65	3956	0.	22.22	1623.	3573	0.	0.196	3429	0.	19.27	0.188
215	5.65	5.65	3578	0.	20.10	1468.	3241	0.	0.178	3114	0.	17.50	0.171
216	5.65	5.65	2811	0.	15.79	1153.	2561	0.	0.140	2467	0.	13.86	0.135
217	5.65	5.65	1730	0.	9.72	710.	1600	0.	0.088	1552	0.	8.72	0.085
218	5.65	5.65	424	0.	2.38	174.	442	0.	0.024	450	0.	2.53	0.025
219	5.65	5.65	3479	0.	19.55	1427.	3200	0.	0.176	3095	0.	17.39	0.170
220	5.65	5.65	3873	0.	21.76	1589.	3562	0.	0.195	3445	0.	19.35	0.189
221	5.65	5.65	3749	0.	21.06	1538.	3455	0.	0.190	3344	0.	18.79	0.183
222	5.65	5.65	3245	0.	18.23	1331.	2975	0.	0.163	2884	0.	16.20	0.158
223	5.65	5.65	2512	0.	14.11	1031.	2292	0.	0.126	2211	0.	12.42	0.121
224	5.65	5.65	1561	0.	8.77	640.	1446	0.	0.079	1404	0.	7.89	0.077
225	5.65	5.65	784	0.	4.40	322.	781	0.	0.043	780	0.	4.38	0.043
226	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
227	5.65	5.65	23	0.	0.13	10.	57	0.	0.003	67	0.	0.38	0.004
228	5.65	5.65	1248	0.	7.01	512.	1112	0.	0.061	1058	0.	5.94	0.058
229	5.65	5.65	1688	0.	9.49	693.	1483	0.	0.081	1403	0.	7.88	0.077
230	5.65	5.65	1497	0.	8.41	614.	1308	0.	0.072	1234	0.	6.93	0.068
231	5.65	5.65	735	0.	4.13	301.	640	0.	0.035	603	0.	3.39	0.033
232	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
233	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
234	5.65	5.65	574	0.	3.23	235.	540	0.	0.030	525	0.	2.95	0.029
235	5.65	5.65	1569	0.	8.81	644.	1394	0.	0.076	1325	0.	7.45	0.073
236	5.65	5.65	1877	0.	10.55	770.	1650	0.	0.091	1561	0.	8.77	0.086
237	5.65	5.65	1620	0.	9.10	665.	1417	0.	0.078	1338	0.	7.52	0.073
238	5.65	5.65	845	0.	4.75	347.	737	0.	0.040	695	0.	3.90	0.038
239	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
240	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
241	5.65	5.65	1037	0.	5.83	426.	949	0.	0.052	913	0.	5.13	0.050
242	5.65	5.65	1773	0.	9.96	728.	1575	0.	0.086	1497	0.	8.41	0.082
243	5.65	5.65	2000	0.	11.24	820.	1760	0.	0.097	1666	0.	9.36	0.091
244	5.65	5.65	1737	0.	9.76	713.	1521	0.	0.083	1436	0.	8.07	0.079
245	5.65	5.65	983	0.	5.53	403.	857	0.	0.047	808	0.	4.54	0.044
246	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
247	5.65	5.65	412	0.	2.32	169.	427	0.	0.023	432	0.	2.43	0.024
248	5.65	5.65	1219	0.	6.85	500.	1111	0.	0.061	1069	0.	6.00	0.059
249	5.65	5.65	1819	0.	10.22	746.	1620	0.	0.089	1542	0.	8.66	0.085
250	5.65	5.65	2084	0.	11.71	855.	1838	0.	0.101	1741	0.	9.78	0.095
251	5.65	5.65	1934	0.	10.87	793.	1696	0.	0.093	1603	0.	9.01	0.088
252	5.65	5.65	1351	0.	7.59	554.	1179	0.	0.065	1111	0.	6.24	0.061
253	5.65	5.65	360	0.	2.02	148.	303	0.	0.017	281	0.	1.58	0.015
254	5.65	5.65	733	0.	4.12	301.	713	0.	0.039	705	0.	3.96	0.039
255	5.65	5.65	1211	0.	6.80	497.	1110	0.	0.061	1070	0.	6.01	0.059
256	5.65	5.65	1780	0.	10.00	730.	1593	0.	0.087	1519	0.	8.53	0.083
257	5.65	5.65	2156	0.	12.11	884.	1907	0.	0.105	1809	0.	10.17	0.099
258	5.65	5.65	2187	0.	12.29	897.	1925	0.	0.106	1821	0.	10.23	0.100
259	5.65	5.65	1847	0.	10.38	758.	1617	0.	0.089	1526	0.	8.57	0.084
260	5.65	5.65	1127	0.	6.33	462.	978	0.	0.054	919	0.	5.16	0.050
261	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
262	5.65	5.65	576	0.	3.24	236.	497	0.	0.027	465	0.	2.61	0.026
263	5.65	5.65	1355	0.	7.61	556.	1169	0.	0.064	1095	0.	6.15	0.060
264	5.65	5.65	1731	0.	9.73	710.	1493	0.	0.082	1399	0.	7.86	0.077
265	5.65	5.65	1738	0.	9.77	713.	1498	0.	0.082	1403	0.	7.88	0.077
266	5.65	5.65	1393	0.	7.83								

268	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
269	5.65	5.65	615	0.	3.45	252.	523	0.	0.029	487	0.	2.73	0.027
270	5.65	5.65	1461	0.	8.21	599.	1255	0.	0.069	1173	0.	6.59	0.064
271	5.65	5.65	1950	0.	10.95	800.	1679	0.	0.092	1572	0.	8.83	0.086
272	5.65	5.65	2084	0.	11.71	855.	1796	0.	0.099	1682	0.	9.45	0.092
273	5.65	5.65	1846	0.	10.37	758.	1589	0.	0.087	1487	0.	8.35	0.082
274	5.65	5.65	1248	0.	7.01	512.	1071	0.	0.059	1000	0.	5.62	0.055
275	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
276	5.65	5.65	511	0.	2.87	210.	422	0.	0.023	387	0.	2.18	0.021
277	5.65	5.65	1521	0.	8.55	624.	1302	0.	0.071	1215	0.	6.82	0.067
278	5.65	5.65	2172	0.	12.20	891.	1869	0.	0.103	1749	0.	9.83	0.096
279	5.65	5.65	2456	0.	13.80	1007.	2117	0.	0.116	1982	0.	11.14	0.109
280	5.65	5.65	2353	0.	13.22	965.	2029	0.	0.111	1900	0.	10.68	0.104
281	5.65	5.65	1833	0.	10.30	752.	1580	0.	0.087	1479	0.	8.31	0.081
282	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
283	5.65	5.65	420	0.	2.36	172.	338	0.	0.019	306	0.	1.72	0.017
284	5.65	5.65	1518	0.	8.53	623.	1296	0.	0.071	1208	0.	6.79	0.066
285	5.65	5.65	2270	0.	12.75	931.	1952	0.	0.107	1826	0.	10.26	0.100
286	5.65	5.65	2644	0.	14.85	1085.	2280	0.	0.125	2135	0.	11.99	0.117
287	5.65	5.65	2611	0.	14.67	1071.	2254	0.	0.124	2112	0.	11.87	0.116
288	5.65	5.65	2123	0.	11.93	871.	1833	0.	0.101	1717	0.	9.65	0.094
289	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
290	5.65	5.65	328	0.	1.84	135.	326	0.	0.018	324	0.	1.82	0.018
291	5.65	5.65	1474	0.	8.28	605.	1254	0.	0.069	1167	0.	6.55	0.064
292	5.65	5.65	2355	0.	13.23	966.	2025	0.	0.111	1894	0.	10.64	0.104
293	5.65	5.65	2832	0.	15.91	1162.	2443	0.	0.134	2288	0.	12.85	0.125
294	5.65	5.65	2876	0.	16.16	1180.	2484	0.	0.136	2328	0.	13.08	0.128
295	5.65	5.65	2425	0.	13.63	995.	2097	0.	0.115	1965	0.	11.04	0.108
296	5.65	5.65	455	0.	2.55	186.	429	0.	0.024	418	0.	2.35	0.023
297	5.65	5.65	2606	0.	14.64	1069.	2401	0.	0.132	2323	0.	13.05	0.127
298	5.65	5.65	1015	0.	5.70	416.	953	0.	0.052	928	0.	5.21	0.051
299	5.65	5.65	2992	0.	16.81	1228.	2761	0.	0.151	2673	0.	15.02	0.147
300	5.65	5.65	3742	0.	21.02	1535.	3441	0.	0.189	3327	0.	18.69	0.182
301	5.65	5.65	4103	0.	23.05	1683.	3770	0.	0.207	3645	0.	20.48	0.200
302	5.65	5.65	4000	0.	22.47	1641.	3681	0.	0.202	3560	0.	20.00	0.195
303	5.65	5.65	3530	0.	19.83	1448.	3257	0.	0.179	3153	0.	17.71	0.173
304	5.65	5.65	2804	0.	15.76	1150.	2601	0.	0.143	2524	0.	14.18	0.138
305	5.65	5.65	1900	0.	10.68	780.	1788	0.	0.098	1745	0.	9.81	0.096
306	5.65	5.65	982	0.	5.52	403.	960	0.	0.053	952	0.	5.35	0.052
307	5.65	5.65	3965	0.	22.28	1627.	3648	0.	0.200	3528	0.	19.82	0.194
308	5.65	5.65	4240	0.	23.82	1739.	3895	0.	0.214	3765	0.	21.15	0.206
309	5.65	5.65	4139	0.	23.26	1698.	3806	0.	0.209	3679	0.	20.67	0.202
310	5.65	5.65	3736	0.	20.99	1533.	3442	0.	0.189	3330	0.	18.71	0.183
311	5.65	5.65	3047	0.	17.12	1250.	2821	0.	0.155	2734	0.	15.36	0.150
312	5.65	5.65	2047	0.	11.50	840.	1924	0.	0.106	1878	0.	10.55	0.103
313	5.65	5.65	607	0.	3.41	249.	644	0.	0.035	659	0.	3.70	0.036
314	5.65	5.65	584	0.	3.28	240.	588	0.	0.032	590	0.	3.32	0.032
315	5.65	5.65	1027	0.	5.77	421.	957	0.	0.052	929	0.	5.22	0.051
316	5.65	5.65	1692	0.	9.51	694.	1525	0.	0.084	1459	0.	8.20	0.080
317	5.65	5.65	2200	0.	12.36	903.	1957	0.	0.107	1860	0.	10.45	0.102
318	5.65	5.65	2385	0.	13.40	979.	2112	0.	0.116	2003	0.	11.25	0.110
319	5.65	5.65	2183	0.	12.27	896.	1918	0.	0.105	1813	0.	10.19	0.099
320	5.65	5.65	1432	0.	8.05	588.	1251	0.	0.069	1178	0.	6.62	0.065
321	5.65	5.65	158	0.	0.88	65.	170	0.	0.009	177	0.	0.99	0.010
322	5.65	5.65	1258	0.	7.07	516.	1129	0.	0.062	1079	0.	6.06	0.059
323	5.65	5.65	1842	0.	10.35	756.	1630	0.	0.089	1547	0.	8.69	0.085
324	5.65	5.65	2167	0.	12.18	889.	1942	0.	0.107	1853	0.	10.41	0.102
325	5.65	5.65	2348	0.	13.19	963.	2095	0.	0.115	1994	0.	11.20	0.109
326	5.65	5.65	2060	0.	11.57	845.	1828	0.	0.100	1735	0.	9.75	0.095
327	5.65	5.65	1095	0.	6.15	449.	975	0.	0.053	927	0.	5.21	0.051
328	5.65	5.65	1594	0.	8.96	654.	1495	0.	0.082	1456	0.	8.18	0.080
329	5.65	5.65	3303	0.	18.56	1355.	3054	0.	0.167	2959	0.	16.62	0.162
330	5.65	5.65	2139	0.	12.02	878.	2006	0.	0.110	1955	0.	10.98	0.107
331	5.65	5.65	3462	0.	19.45	1420.	3208	0.	0.176	3111	0.	17.48	0.171
332	5.65	5.65	4014	0.	22.55	1647.	3696	0.	0.203	3576	0.	20.09	0.196
333	5.65	5.65	4160	0.	23.37	1707.	3825	0.	0.210	3697	0.	20.77	0.203
334	5.65	5.65	4067	0.	22.85	1669.	3741	0.	0.205	3617	0.	20.32	0.198
335	5.65	5.65	3700	0.	20.79	1518.	3412	0.	0.187	3302	0.	18.55	0.181
336	5.65	5.65	2984	0.	16.76	1224.	2770	0.	0.152	2689	0.	15.11	0.147
337	5.65	5.65	1802	0.	10.12	739.	1715	0.	0.094	1682	0.	9.45	0.092
338	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
339	5.65	5.65	3814	0.	21.43	1565.	3517	0.	0.193	3404	0.	19.13	0.187
340	5.65	5.65	3822	0.	21.47	1568.	3517	0.	0.193	3401	0.	19.11	0.187
341	5.65	5.65	3796	0.	21.33	1557.	3499	0.	0.192	3386	0.	19.02	0.186
342	5.65	5.65	3455	0.	19.41	1417.	3197	0.	0.175	3099	0.	17.41	0.170
343	5.65	5.65	2691	0.	15.12	1104.	2516	0.	0.138	2449	0.	13.76	0.134
344	5.65	5.65	1393	0.	7.83	571.	1359	0.	0.075	1348	0.	7.57	0.074
345	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
346	5.65	5.65	2478	0.	13.92	1017.	2326	0.	0.128	2268	0.	12.74	0.124
347	5.65	5.65	3429	0.	19.26	1407.	3186	0.	0.175	3094	0.	17.38	0.170
348	5.65	5.65	2648	0.	14.88	1087.	2486	0.	0.136	2424	0.	13.62	0.133
349	5.65	5.65	3428	0.	19.26	1406.	3190	0.	0.175	3099	0.	17.41	0.170
350	5.65	5.65	2778	0.	15.61	1140.	2609	0.	0.143	2544	0.	14.29	0.140
351	5.65	5.65	3354	0.	18.85	1376.	3126	0.	0.171	3040	0.	17.08	0.167
352	5.65	5.65	3277	0.	18.41	1344.	3026	0.	0.166	2931	0.	16.47	0.161
353	5.65	5.65	3027	0.	17.00	1242.	2798	0.	0.153	2711	0.	15.23	0.149
354	5.65	5.65	2637	0.	14.81	1082.	2441	0.	0.134	2367	0.	13.30	0.130
355	5.65	5.65	3213	0.	18.05	1318.	2960	0.	0.162	2864	0.	16.09	0.157
356	5.65	5.65	3406	0.	19.14	1397.	3154	0.	0.173	3057	0.	17.18	0.168
357	5.65	5.65	3060	0.	17.19	1255.	2851	0.	0.156	2772	0.	15.57	0.152
358	5.65	5.65	2249	0.	12.63	923.	2128	0.	0.117	2082	0.	11.70	0.114
359	5.65	5.65	955	0.	5.36	392.	974	0.	0.053	983	0.	5.52	0.054
360	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
361	5.65	5.65	2700	0.	15.17	1108.	2497	0.	0.137	2419	0.	13.59	0.133
362	5.65	5.65	3054	0.	17.16	1253.	2846	0.	0.156	2766	0.	15.54	0.152
363	5.65	5.65	2609	0.	14.66	1070.	2453	0.	0.135	2394	0.	13.45	0.131
364	5.65	5.65	1748	0.	9.82	717.	1682	0.	0.092	1658	0.	9.32	0.091
365	5.65	5.65	543	0.	3.05	223.	595	0.	0.033	622	0.	3.49	0.034
366	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000	
367	5.65	5.65	2334	0.	13.12	958.	2164	0.	0.119	2100	0.	11.80	0.115
368	5.65	5.65	2794	0.	15.70	1146.	2616	0.	0.143	2548	0.	14.32	0.140
369	5.65	5.65	2312										

380	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
381	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
382	5.65	5.65	1148	0.	6.45	471.	1022	0.0056	974	0.	5.47	0.053
383	5.65	5.65	2054	0.	11.54	843.	1810	0.0099	1713	0.	9.63	0.094
384	5.65	5.65	2410	0.	13.54	989.	2111	0.0116	1993	0.	11.20	0.109
385	5.65	5.65	2346	0.	13.18	962.	2042	0.0112	1922	0.	10.80	0.105
386	5.65	5.65	1760	0.	9.89	722.	1585	0.0087	1514	0.	8.51	0.083
387	5.65	5.65	876	0.	4.92	359.	808	0.0044	779	0.	4.38	0.043
388	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
389	5.65	5.65	802	0.	4.51	329.	707	0.0039	671	0.	3.77	0.037
390	5.65	5.65	1912	0.	10.74	784.	1675	0.0092	1583	0.	8.89	0.087
391	5.65	5.65	2460	0.	13.82	1009.	2146	0.0118	2022	0.	11.36	0.111
392	5.65	5.65	2611	0.	14.67	1071.	2266	0.0124	2130	0.	11.97	0.117
393	5.65	5.65	2314	0.	13.00	949.	2003	0.0110	1881	0.	10.57	0.103
394	5.65	5.65	1371	0.	7.71	563.	1173	0.0064	1096	0.	6.16	0.060
395	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
396	5.65	5.65	652	0.	3.67	268.	662	0.0036	665	0.	3.74	0.036
397	5.65	5.65	1511	0.	8.49	620.	1349	0.0074	1309	0.	7.35	0.072
398	5.65	5.65	2163	0.	12.15	887.	1874	0.0103	1761	0.	9.89	0.097
399	5.65	5.65	2471	0.	13.88	1014.	2135	0.0117	2003	0.	11.25	0.110
400	5.65	5.65	2422	0.	13.61	994.	2088	0.0115	1956	0.	10.99	0.107
401	5.65	5.65	1824	0.	10.25	748.	1557	0.0085	1453	0.	8.16	0.080
402	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
403	5.65	5.65	730	0.	4.10	300.	728	0.0040	725	0.	4.07	0.040
404	5.65	5.65	1322	0.	7.43	542.	1239	0.0068	1204	0.	6.77	0.066
405	5.65	5.65	1633	0.	9.18	670.	1396	0.0077	1304	0.	7.32	0.072
406	5.65	5.65	2014	0.	11.32	826.	1723	0.0095	1609	0.	9.04	0.088
407	5.65	5.65	2064	0.	11.59	847.	1758	0.0096	1639	0.	9.21	0.090
408	5.65	5.65	1620	0.	9.10	664.	1365	0.0075	1266	0.	7.11	0.069
409	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
410	5.65	5.65	864	0.	4.85	354.	844	0.0046	834	0.	4.68	0.046
411	5.65	5.65	1285	0.	7.22	527.	1207	0.0066	1173	0.	6.59	0.064
412	5.65	5.65	1260	0.	7.08	517.	1125	0.0062	1095	0.	6.15	0.060
413	5.65	5.65	1674	0.	9.41	687.	1419	0.0078	1319	0.	7.41	0.072
414	5.65	5.65	1758	0.	9.88	721.	1485	0.0081	1378	0.	7.74	0.076
415	5.65	5.65	1388	0.	7.80	569.	1158	0.0064	1068	0.	6.00	0.059
416	5.65	5.65	1965	0.	11.04	806.	1828	0.0100	1776	0.	9.98	0.097
417	5.65	5.65	2584	0.	14.52	1060.	2432	0.0133	2374	0.	13.34	0.130
418	5.65	5.65	2056	0.	11.55	843.	1966	0.0108	1932	0.	10.85	0.106
419	5.65	5.65	1140	0.	6.40	468.	1142	0.0063	1144	0.	6.43	0.063
420	5.65	5.65	508	0.	2.86	209.	397	0.0022	355	0.	1.99	0.019
421	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
422	5.65	5.65	0.	0.	0.00	0.	0.	0.000	29	0.	0.16	0.002
423	5.65	5.65	850	0.	4.77	349.	827	0.0045	817	0.	4.59	0.045
424	5.65	5.65	1169	0.	6.57	479.	1102	0.0060	1073	0.	6.03	0.059
425	5.65	5.65	1022	0.	5.74	419.	970	0.0053	947	0.	5.32	0.052
426	5.65	5.65	1300	0.	7.30	533.	1083	0.0059	1000	0.	5.62	0.055
427	5.65	5.65	1440	0.	8.09	591.	1199	0.0066	1106	0.	6.21	0.061
428	5.65	5.65	1156	0.	6.49	474.	951	0.0052	871	0.	4.89	0.048

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA						COMB. FREQUENTE				COMB. QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	WkF		Mom	Nor	σc	WkP	
97	5.65	5.65	900	0.	5.06	369.	787	0.	0.043		742	0.	4.17	0.041	
98	5.65	5.65	777	0.	4.37	319.	680	0.	0.037		642	0.	3.60	0.035	
99	5.65	5.65	668	0.	3.75	274.	584	0.	0.032		551	0.	3.10	0.030	
100	5.65	5.65	460	0.	2.58	189.	405	0.	0.022		384	0.	2.16	0.021	
101	5.65	5.65	384	0.	2.16	157.	355	0.	0.019		344	0.	1.93	0.019	
102	5.65	5.65	403	0.	2.27	165.	372	0.	0.020		360	0.	2.02	0.020	
103	5.65	5.65	362	0.	2.04	149.	322	0.	0.018		307	0.	1.73	0.017	
104	5.65	5.65	1281	0.	7.19	525.	1197	0.	0.066		1166	0.	6.55	0.064	
105	5.65	5.65	1048	0.	5.89	430.	982	0.	0.054		957	0.	5.37	0.052	
106	5.65	5.65	883	0.	4.96	362.	830	0.	0.046		809	0.	4.55	0.044	
107	5.65	5.65	748	0.	4.20	307.	662	0.	0.036		627	0.	3.53	0.034	
108	5.65	5.65	716	0.	4.02	294.	633	0.	0.035		599	0.	3.37	0.033	
109	5.65	5.65	714	0.	4.01	293.	630	0.	0.035		596	0.	3.35	0.033	
110	5.65	5.65	615	0.	3.45	252.	551	0.	0.030		525	0.	2.95	0.029	
111	5.65	5.65	1882	0.	10.57	772.	1727	0.	0.095		1667	0.	9.37	0.091	
112	5.65	5.65	1499	0.	8.42	615.	1381	0.	0.076		1335	0.	7.50	0.073	
113	5.65	5.65	1144	0.	6.43	469.	1063	0.	0.058		1031	0.	5.79	0.057	
114	5.65	5.65	425	0.	2.39	175.	418	0.	0.023		413	0.	2.32	0.023	
115	5.65	5.65	349	0.	1.96	143.	313	0.	0.017		296	0.	1.66	0.016	
116	5.65	5.65	156	0.	0.88	64.	147	0.	0.008		141	0.	0.79	0.008	
117	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000	
118	5.65	5.65	2113	0.	11.87	867.	1890	0.	0.104		1802	0.	10.12	0.099	
119	5.65	5.65	1715	0.	9.64	704.	1540	0.	0.084		1469	0.	8.25	0.081	
120	5.65	5.65	1277	0.	7.17	524.	1155	0.	0.063		1104	0.	6.21	0.061	
121	5.65	5.65	227	0.	1.28	93.	232	0.	0.013		230	0.	1.29	0.013	
122	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000	
123	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000	
124	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000	
125	5.65	5.65	350	0.	1.97	144.	310	0.	0.017		294	0.	1.65	0.016	
126	5.65	5.65	331	0.	1.86	136.	291	0.	0.016		275	0.	1.54	0.015	
127	5.65	5.65	314	0.	1.76	129.	272	0.	0.015		254	0.	1.43	0.014	
128	5.65	5.65	285	0.	1.60	117.	262	0.	0.014		253	0.	1.42	0.014	
129	5.65	5.65	469	0.	2.64	193.	412	0.	0.023		391	0.	2.19	0.021	
130	5.65	5.65	528	0.	2.97	217.	457	0.	0.025		429	0.	2.41	0.024	
131	5.65	5.65	575	0.	3.23	236.	494	0.	0.027		463	0.	2.60	0.025	
132	5.65	5.65	584	0.	3.28	240.	525	0.	0.029		500	0.	2.81	0.027	
133	5.65	5.65	538	0.	3.02	221.	485	0.	0.027		463	0.	2.60	0.025	
134	5.65	5.65	482	0.	2.71	198.	442	0.	0.024		428	0.	2.40	0.023	
135	5.65	5.65	511	0.	2.87	210.	467	0.	0.026		450	0.	2.53	0.025	
136	5.65	5.65	613	0.	3.44	251.	553	0.	0.030		529	0.	2.97	0.029	
137	5.65	5.65	778	0.	4.37	319.	692	0.	0.038		657	0.	3.69	0.036	
138	5.65	5.65	962	0.	5.40	395.	847	0.	0.046		801	0.	4.50	0.044	
139	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000	
140	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000	
141	5.65	5.65	19	0.	0.11	8.	63	0.	0.003		82	0.	0.46	0.004	
142	5.65	5.65	86	0.	0.48	35.	105	0.	0.006		111	0.	0.62	0.006	
143	5.65	5.65	339	0.	1.90	139.	303	0.	0.017		285	0.	1.60	0.016	
144	5.65	5.65	574	0.	3.23	236.	508	0.	0.028		480	0.	2.69	0.026	
145	5.65	5.65	707	0.	3.97	290.	625	0.	0.034		589	0.	3.31	0.032	
146	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000	

147	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
148	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
149	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
150	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
151	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
152	5.65	5.65	38	0.	0.21	16.	56	0.0003	61	0.	0.34	0.003
153	5.65	5.65	648	0.	3.64	266.	556	0.0031	520	0.	2.92	0.029
154	5.65	5.65	749	0.	4.21	307.	643	0.0035	601	0.	3.37	0.033
155	5.65	5.65	889	0.	4.99	365.	770	0.0042	723	0.	4.06	0.040
156	5.65	5.65	1219	0.	6.85	500.	1060	0.0058	996	0.	5.60	0.055
157	5.65	5.65	1532	0.	8.61	629.	1322	0.0073	1238	0.	6.95	0.068
158	5.65	5.65	1721	0.	9.67	706.	1482	0.0081	1387	0.	7.79	0.076
159	5.65	5.65	1901	0.	10.68	780.	1634	0.0090	1526	0.	8.58	0.084
160	5.65	5.65	1163	0.	6.53	477.	1018	0.0056	960	0.	5.39	0.053
161	5.65	5.65	1376	0.	7.73	564.	1199	0.0066	1129	0.	6.34	0.062
162	5.65	5.65	1601	0.	8.99	657.	1393	0.0076	1311	0.	7.36	0.072
163	5.65	5.65	1902	0.	10.68	780.	1655	0.0091	1556	0.	8.74	0.085
164	5.65	5.65	2267	0.	12.74	930.	1971	0.0108	1852	0.	10.40	0.102
165	5.65	5.65	2473	0.	13.89	1015.	2148	0.0118	2018	0.	11.34	0.111
166	5.65	5.65	2702	0.	15.18	1109.	2346	0.0129	2203	0.	12.38	0.121
167	5.65	5.65	933	0.	5.24	383.	833	0.0046	792	0.	4.45	0.043
168	5.65	5.65	1311	0.	7.37	538.	1157	0.0063	1095	0.	6.15	0.060
169	5.65	5.65	1699	0.	9.55	697.	1491	0.0082	1407	0.	7.90	0.077
170	5.65	5.65	2061	0.	11.58	845.	1802	0.0099	1698	0.	9.54	0.093
171	5.65	5.65	2445	0.	13.74	1003.	2134	0.0117	2009	0.	11.29	0.110
172	5.65	5.65	2651	0.	14.90	1088.	2313	0.0127	2177	0.	12.23	0.119
173	5.65	5.65	2878	0.	16.17	1181.	2508	0.0138	2360	0.	13.26	0.129
174	5.65	5.65	147	0.	0.83	60.	151	0.0008	150	0.	0.84	0.008
175	5.65	5.65	435	0.	2.45	179.	397	0.0022	380	0.	2.13	0.021
176	5.65	5.65	1106	0.	6.22	454.	989	0.0054	941	0.	5.29	0.052
177	5.65	5.65	1735	0.	9.75	712.	1531	0.0084	1448	0.	8.14	0.079
178	5.65	5.65	2256	0.	12.67	925.	1980	0.0109	1869	0.	10.50	0.102
179	5.65	5.65	2508	0.	14.09	1029.	2197	0.0121	2072	0.	11.64	0.114
180	5.65	5.65	2746	0.	15.43	1126.	2402	0.0132	2264	0.	12.72	0.124
181	5.65	5.65	311	0.	1.75	128.	183	0.0010	129	0.	0.72	0.007
182	5.65	5.65	672	0.	3.77	276.	519	0.0028	455	0.	2.55	0.025
183	5.65	5.65	496	0.	2.79	203.	371	0.0020	318	0.	1.79	0.017
184	5.65	5.65	813	0.	4.57	334.	661	0.0036	598	0.	3.36	0.033
185	5.65	5.65	718	0.	4.03	294.	592	0.0032	542	0.	3.04	0.030
186	5.65	5.65	1015	0.	5.70	416.	861	0.0047	799	0.	4.49	0.044
187	5.65	5.65	830	0.	4.66	340.	711	0.0039	664	0.	3.73	0.036
188	5.65	5.65	1131	0.	6.35	464.	982	0.0054	924	0.	5.19	0.051
189	5.65	5.65	1219	0.	6.85	500.	1139	0.0062	1107	0.	6.22	0.061
190	5.65	5.65	1528	0.	8.58	627.	1421	0.0078	1379	0.	7.75	0.076
191	5.65	5.65	855	0.	4.80	351.	694	0.0038	627	0.	3.52	0.034
192	5.65	5.65	1120	0.	6.29	459.	944	0.0052	872	0.	4.90	0.048
193	5.65	5.65	1241	0.	6.97	509.	1081	0.0059	1015	0.	5.70	0.056
194	5.65	5.65	921	0.	5.17	378.	820	0.0045	778	0.	4.37	0.043
195	5.65	5.65	155	0.	0.87	63.	164	0.0009	164	0.	0.92	0.009
196	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
197	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
198	5.65	5.65	1056	0.	5.93	433.	884	0.0048	815	0.	4.58	0.045
199	5.65	5.65	1429	0.	8.03	586.	1227	0.0067	1146	0.	6.44	0.063
200	5.65	5.65	1761	0.	9.90	723.	1538	0.0084	1449	0.	8.14	0.079
201	5.65	5.65	1911	0.	10.73	784.	1684	0.0092	1593	0.	8.95	0.087
202	5.65	5.65	1785	0.	10.03	732.	1582	0.0087	1501	0.	8.43	0.082
203	5.65	5.65	1411	0.	7.93	579.	1260	0.0069	1199	0.	6.74	0.066
204	5.65	5.65	908	0.	5.10	373.	837	0.0046	800	0.	4.49	0.044
205	5.65	5.65	1296	0.	7.28	532.	1115	0.0061	1044	0.	5.86	0.057
206	5.65	5.65	1754	0.	9.86	720.	1530	0.0084	1441	0.	8.10	0.079
207	5.65	5.65	2195	0.	12.33	900.	1930	0.0106	1826	0.	10.26	0.100
208	5.65	5.65	2540	0.	14.27	1042.	2245	0.0123	2129	0.	11.96	0.117
209	5.65	5.65	2705	0.	15.20	1110.	2399	0.0132	2279	0.	12.80	0.125
210	5.65	5.65	2648	0.	14.88	1086.	2356	0.0129	2241	0.	12.59	0.123
211	5.65	5.65	2393	0.	13.44	982.	2138	0.0117	2037	0.	11.44	0.112
212	5.65	5.65	1434	0.	8.05	588.	1256	0.0069	1186	0.	6.67	0.065
213	5.65	5.65	1949	0.	10.95	799.	1720	0.0094	1631	0.	9.16	0.089
214	5.65	5.65	2441	0.	13.71	1001.	2164	0.0119	2057	0.	11.56	0.113
215	5.65	5.65	2863	0.	16.09	1175.	2546	0.0140	2423	0.	13.61	0.133
216	5.65	5.65	3158	0.	17.75	1296.	2815	0.0154	2682	0.	15.07	0.147
217	5.65	5.65	3270	0.	18.37	1341.	2921	0.0160	2785	0.	15.65	0.153
218	5.65	5.65	3236	0.	18.18	1328.	2915	0.0160	2789	0.	15.67	0.153
219	5.65	5.65	1801	0.	10.12	739.	1669	0.0092	1618	0.	9.09	0.089
220	5.65	5.65	2270	0.	12.75	931.	2095	0.0115	2027	0.	11.39	0.111
221	5.65	5.65	2650	0.	14.89	1087.	2436	0.0134	2353	0.	13.22	0.129
222	5.65	5.65	2995	0.	16.83	1229.	2742	0.0150	2643	0.	14.85	0.145
223	5.65	5.65	3322	0.	18.66	1363.	3029	0.0166	2914	0.	16.37	0.160
224	5.65	5.65	3617	0.	20.32	1484.	3287	0.0180	3158	0.	17.74	0.173
225	5.65	5.65	3847	0.	21.61	1578.	3487	0.0191	3346	0.	18.80	0.184
226	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
227	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
228	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
229	5.65	5.65	262	0.	1.47	107.	251	0.0014	242	0.	1.36	0.013
230	5.65	5.65	308	0.	1.73	127.	293	0.0016	284	0.	1.59	0.016
231	5.65	5.65	366	0.	2.06	150.	344	0.0019	332	0.	1.86	0.018
232	5.65	5.65	490	0.	2.75	201.	450	0.0025	432	0.	2.43	0.024
233	5.65	5.65	971	0.	5.46	398.	913	0.0050	889	0.	4.99	0.049
234	5.65	5.65	1498	0.	8.42	615.	1343	0.0074	1278	0.	7.18	0.070
235	5.65	5.65	1787	0.	10.04	733.	1593	0.0087	1513	0.	8.50	0.083
236	5.65	5.65	1866	0.	10.48	765.	1659	0.0091	1576	0.	8.85	0.086
237	5.65	5.65	1888	0.	10.61	775.	1677	0.0092	1592	0.	8.94	0.087
238	5.65	5.65	1985	0.	11.15	814.	1758	0.0096	1666	0.	9.36	0.091
239	5.65	5.65	2105	0.	11.83	864.	1859	0.0102	1759	0.	9.89	0.097
240	5.65	5.65	2605	0.	14.64	1069.	2331	0.0128	2222	0.	12.48	0.122
241	5.65	5.65	2908	0.	16.34	1193.	2594	0.0142	2469	0.	13.87	0.135
242	5.65	5.65	3064	0.	17.22	1257.	2728	0.0150	2594	0.	14.58	0.142
243	5.65	5.65	3100	0.	17.42	1272.	2756	0.0151	2619	0.	14.72	0.144
244	5.65	5.65	3103	0.	17.43	1273.	2754	0.0151	2615	0.	14.69	0.143
245	5.65	5.65	3097	0.	17.40	1271.	2742	0.0150	2601	0.	14.61	0.143
246	5.65	5.65	3054	0.	17.16	1253.	2696	0.0148	2553	0.	14.35	0.140
247	5.65	5.65	3523	0.	19.79	1445.	3164	0.0174	3023	0.	16.98	0.166
248	5.65	5.65	3717	0.	20.88	1525.	3332	0.0183	3180	0.	17.87	0.174
249	5.65	5.65	3821	0.	21.47	1567.	3419	0.0188	3261	0.	18.32	0.179
250	5.65	5.65	3861	0.	21.69	1584.	3450	0.0189	3288	0.	18.47	0.180

251	5.65	5.65	3847	0.	21.61	1578.	3431	0.	0.188	3267	0.	18.35	0.179
252	5.65	5.65	3681	0.	20.68	1510.	3275	0.	0.180	3114	0.	17.49	0.171
253	5.65	5.65	3376	0.	18.97	1385.	2992	0.	0.164	2840	0.	15.95	0.156
254	5.65	5.65	3992	0.	22.43	1638.	3613	0.	0.198	3465	0.	19.47	0.190
255	5.65	5.65	4067	0.	22.85	1668.	3677	0.	0.202	3525	0.	19.80	0.193
256	5.65	5.65	4112	0.	23.10	1687.	3716	0.	0.204	3560	0.	20.00	0.195
257	5.65	5.65	4179	0.	23.48	1714.	3771	0.	0.207	3610	0.	20.28	0.198
258	5.65	5.65	4211	0.	23.66	1727.	3789	0.	0.208	3623	0.	20.35	0.199
259	5.65	5.65	3730	0.	20.96	1530.	3347	0.	0.184	3195	0.	17.95	0.175
260	5.65	5.65	2940	0.	16.52	1206.	2605	0.	0.143	2477	0.	13.91	0.136
261	5.65	5.65	707	0.	3.97	290.	636	0.	0.035	606	0.	3.40	0.033
262	5.65	5.65	1084	0.	6.09	445.	959	0.	0.053	907	0.	5.10	0.050
263	5.65	5.65	1661	0.	9.33	681.	1454	0.	0.080	1371	0.	7.70	0.075
264	5.65	5.65	2137	0.	12.01	877.	1863	0.	0.102	1752	0.	9.85	0.096
265	5.65	5.65	2534	0.	14.24	1040.	2203	0.	0.121	2070	0.	11.63	0.114
266	5.65	5.65	2718	0.	15.27	1115.	2361	0.	0.129	2217	0.	12.46	0.122
267	5.65	5.65	2902	0.	16.31	1191.	2519	0.	0.138	2365	0.	13.29	0.130
268	5.65	5.65	2242	0.	12.60	920.	1972	0.	0.108	1863	0.	10.47	0.102
269	5.65	5.65	2417	0.	13.58	992.	2118	0.	0.116	1998	0.	11.22	0.110
270	5.65	5.65	2605	0.	14.64	1069.	2274	0.	0.125	2142	0.	12.03	0.117
271	5.65	5.65	2771	0.	15.57	1137.	2413	0.	0.132	2269	0.	12.75	0.124
272	5.65	5.65	3000	0.	16.86	1231.	2607	0.	0.143	2450	0.	13.76	0.134
273	5.65	5.65	3122	0.	17.54	1281.	2711	0.	0.149	2546	0.	14.30	0.140
274	5.65	5.65	3287	0.	18.47	1349.	2853	0.	0.156	2679	0.	15.05	0.147
275	5.65	5.65	2980	0.	16.74	1223.	2621	0.	0.144	2478	0.	13.92	0.136
276	5.65	5.65	2902	0.	16.30	1190.	2541	0.	0.139	2397	0.	13.47	0.131
277	5.65	5.65	2850	0.	16.01	1169.	2486	0.	0.136	2340	0.	13.15	0.128
278	5.65	5.65	2895	0.	16.27	1188.	2517	0.	0.138	2366	0.	13.29	0.130
279	5.65	5.65	3103	0.	17.43	1273.	2692	0.	0.148	2528	0.	14.20	0.139
280	5.65	5.65	3222	0.	18.10	1322.	2794	0.	0.153	2622	0.	14.73	0.144
281	5.65	5.65	3407	0.	19.14	1398.	2953	0.	0.162	2772	0.	15.57	0.152
282	5.65	5.65	3012	0.	16.92	1236.	2655	0.	0.146	2513	0.	14.12	0.138
283	5.65	5.65	2661	0.	14.95	1092.	2330	0.	0.128	2199	0.	12.35	0.121
284	5.65	5.65	2404	0.	13.50	986.	2090	0.	0.115	1965	0.	11.04	0.108
285	5.65	5.65	2418	0.	13.59	992.	2092	0.	0.115	1962	0.	11.02	0.108
286	5.65	5.65	2731	0.	15.34	1120.	2360	0.	0.129	2212	0.	12.43	0.121
287	5.65	5.65	2921	0.	16.41	1198.	2524	0.	0.138	2366	0.	13.29	0.130
288	5.65	5.65	3174	0.	17.83	1302.	2744	0.	0.150	2571	0.	14.45	0.141
289	5.65	5.65	2254	0.	12.66	925.	2022	0.	0.111	1935	0.	10.87	0.106
290	5.65	5.65	1746	0.	9.81	716.	1617	0.	0.089	1565	0.	8.79	0.086
291	5.65	5.65	1121	0.	6.30	460.	1000	0.	0.055	972	0.	5.46	0.053
292	5.65	5.65	1249	0.	7.01	512.	1057	0.	0.058	981	0.	5.51	0.054
293	5.65	5.65	1874	0.	10.53	769.	1603	0.	0.088	1495	0.	8.40	0.082
294	5.65	5.65	2177	0.	12.23	893.	1866	0.	0.102	1742	0.	9.79	0.096
295	5.65	5.65	2515	0.	14.13	1032.	2161	0.	0.119	2019	0.	11.35	0.111
296	5.65	5.65	1742	0.	9.78	714.	1626	0.	0.089	1582	0.	8.89	0.087
297	5.65	5.65	2086	0.	11.72	856.	1943	0.	0.107	1888	0.	10.61	0.104
298	5.65	5.65	2266	0.	12.73	930.	2121	0.	0.116	2066	0.	11.61	0.113
299	5.65	5.65	2643	0.	14.85	1084.	2471	0.	0.136	2405	0.	13.51	0.132
300	5.65	5.65	2379	0.	13.37	976.	2211	0.	0.121	2146	0.	12.06	0.118
301	5.65	5.65	2861	0.	16.07	1174.	2650	0.	0.145	2568	0.	14.43	0.141
302	5.65	5.65	3242	0.	18.21	1330.	2993	0.	0.164	2897	0.	16.28	0.159
303	5.65	5.65	3563	0.	20.02	1462.	3279	0.	0.180	3169	0.	17.80	0.174
304	5.65	5.65	3814	0.	21.43	1565.	3501	0.	0.192	3379	0.	18.99	0.185
305	5.65	5.65	3973	0.	22.32	1630.	3641	0.	0.200	3512	0.	19.73	0.193
306	5.65	5.65	4022	0.	22.60	1650.	3684	0.	0.202	3553	0.	19.96	0.195
307	5.65	5.65	2924	0.	16.43	1200.	2731	0.	0.150	2657	0.	14.93	0.146
308	5.65	5.65	3328	0.	18.70	1365.	3101	0.	0.170	3014	0.	16.94	0.165
309	5.65	5.65	3614	0.	20.30	1483.	3362	0.	0.184	3265	0.	18.34	0.179
310	5.65	5.65	3824	0.	21.48	1569.	3551	0.	0.195	3446	0.	19.36	0.189
311	5.65	5.65	3927	0.	22.06	1611.	3646	0.	0.200	3537	0.	19.87	0.194
312	5.65	5.65	3886	0.	21.83	1594.	3612	0.	0.198	3506	0.	19.70	0.192
313	5.65	5.65	3700	0.	20.79	1518.	3452	0.	0.189	3355	0.	18.85	0.184
314	5.65	5.65	3978	0.	22.35	1632.	3647	0.	0.200	3517	0.	19.76	0.193
315	5.65	5.65	3889	0.	21.85	1595.	3570	0.	0.196	3445	0.	19.35	0.189
316	5.65	5.65	3839	0.	21.57	1575.	3528	0.	0.194	3407	0.	19.14	0.187
317	5.65	5.65	3978	0.	22.35	1632.	3655	0.	0.200	3528	0.	19.82	0.194
318	5.65	5.65	4545	0.	25.54	1865.	4164	0.	0.228	4013	0.	22.55	0.220
319	5.65	5.65	4761	0.	26.75	1953.	4358	0.	0.239	4198	0.	23.58	0.230
320	5.65	5.65	5123	0.	28.78	2102.	4681	0.	0.257	4505	0.	25.31	0.247
321	5.65	5.65	3431	0.	19.27	1407.	3219	0.	0.177	3137	0.	17.62	0.172
322	5.65	5.65	3110	0.	17.47	1276.	2942	0.	0.161	2877	0.	16.16	0.158
323	5.65	5.65	2781	0.	15.63	1141.	2659	0.	0.146	2612	0.	14.68	0.143
324	5.65	5.65	2478	0.	13.92	1017.	2402	0.	0.132	2373	0.	13.33	0.130
325	5.65	5.65	2195	0.	12.33	900.	2164	0.	0.119	2152	0.	12.09	0.118
326	5.65	5.65	2077	0.	11.67	852.	2066	0.	0.113	2062	0.	11.59	0.113
327	5.65	5.65	1935	0.	10.87	794.	1948	0.	0.107	1954	0.	10.98	0.107
328	5.65	5.65	2834	0.	15.92	1163.	2661	0.	0.146	2595	0.	14.58	0.142
329	5.65	5.65	3128	0.	17.58	1283.	2936	0.	0.161	2863	0.	16.09	0.157
330	5.65	5.65	3399	0.	19.10	1395.	3199	0.	0.175	3123	0.	17.55	0.171
331	5.65	5.65	3504	0.	19.69	1437.	3300	0.	0.181	3223	0.	18.11	0.177
332	5.65	5.65	3309	0.	18.59	1358.	3107	0.	0.170	3030	0.	17.02	0.166
333	5.65	5.65	3563	0.	20.02	1462.	3345	0.	0.183	3262	0.	18.33	0.179
334	5.65	5.65	3647	0.	20.49	1496.	3427	0.	0.188	3343	0.	18.78	0.183
335	5.65	5.65	3623	0.	20.36	1486.	3410	0.	0.187	3329	0.	18.71	0.183
336	5.65	5.65	3468	0.	19.48	1423.	3278	0.	0.180	3206	0.	18.01	0.176
337	5.65	5.65	3121	0.	17.53	1280.	2977	0.	0.163	2922	0.	16.42	0.160
338	5.65	5.65	2695	0.	15.14	1106.	2607	0.	0.143	2575	0.	14.47	0.141
339	5.65	5.65	3515	0.	19.75	1442.	3316	0.	0.182	3241	0.	18.21	0.178
340	5.65	5.65	3523	0.	19.79	1445.	3333	0.	0.183	3262	0.	18.33	0.179
341	5.65	5.65	3295	0.	18.51	1352.	3138	0.	0.172	3080	0.	17.30	0.169
342	5.65	5.65	2847	0.	16.00	1168.	2748	0.	0.151	2711	0.	15.23	0.149
343	5.65	5.65	2143	0.	12.04	879.	2135	0.	0.117	2134	0.	11.99	0.117
344	5.65	5.65	1246	0.	7.00	511.	1351	0.	0.074	1395	0.	7.84	0.077
345	5.65	5.65	657	0.	3.69	269.	839	0.	0.046	914	0.	5.13	0.050
354	5.65	5.65	3699	0.	20.79	1518.	3486	0.	0.191	3405	0.	19.13	0.187
355	5.65	5.65	3628	0.	20.38	1488.	3425	0.	0.188	3348	0.	18.81	0.184
356	5.65	5.65	3564	0.	20.02	1462.	3360	0.	0.184	3283	0.	18.44	0.180
357	5.65	5.65	3296	0.	18.52	1352.	3116	0.	0.171	3049	0.	17.13	0.167
358	5.65	5.65	2209										

363	5.65	5.65	3242	0.	18.22	1330.	3090	0.	0.169	3034	0.	17.05	0.166
364	5.65	5.65	2750	0.	15.45	1128.	2659	0.	0.146	2626	0.	14.75	0.144
365	5.65	5.65	2008	0.	11.28	824.	2007	0.	0.110	2010	0.	11.29	0.110
366	5.65	5.65	1057	0.	5.94	434.	1179	0.	0.065	1229	0.	6.91	0.067
367	5.65	5.65	416	0.	2.34	171.	624	0.	0.034	708	0.	3.98	0.039
368	5.65	5.65	104	0.	0.59	43.	394	0.	0.022	494	0.	2.78	0.027
369	5.65	5.65	2586	0.	14.53	1061.	2483	0.	0.136	2446	0.	13.74	0.134
370	5.65	5.65	2070	0.	11.63	849.	2028	0.	0.111	2014	0.	11.31	0.110
371	5.65	5.65	1559	0.	8.76	640.	1579	0.	0.087	1589	0.	8.93	0.087
372	5.65	5.65	1245	0.	6.99	511.	1309	0.	0.072	1337	0.	7.51	0.073
373	5.65	5.65	1210	0.	6.80	497.	1288	0.	0.071	1319	0.	7.41	0.072
374	5.65	5.65	1314	0.	7.38	539.	1385	0.	0.076	1414	0.	7.94	0.078
375	5.65	5.65	1171	0.	6.58	481.	1155	0.	0.063	1150	0.	6.46	0.063
376	5.65	5.65	837	0.	4.70	343.	862	0.	0.047	873	0.	4.90	0.048
377	5.65	5.65	703	0.	3.95	289.	752	0.	0.041	773	0.	4.34	0.042
378	5.65	5.65	830	0.	4.66	340.	878	0.	0.048	898	0.	5.05	0.049
379	5.65	5.65	999	0.	5.61	410.	1034	0.	0.057	1048	0.	5.89	0.057
380	5.65	5.65	1171	0.	6.58	480.	1185	0.	0.065	1191	0.	6.69	0.065
381	5.65	5.65	2356	0.	13.24	967.	2262	0.	0.124	2251	0.	12.65	0.123
382	5.65	5.65	2549	0.	14.32	1046.	2425	0.	0.133	2379	0.	13.37	0.130
383	5.65	5.65	2530	0.	14.21	1038.	2421	0.	0.133	2381	0.	13.38	0.131
384	5.65	5.65	2115	0.	11.88	868.	2069	0.	0.114	2054	0.	11.54	0.113
385	5.65	5.65	1382	0.	7.77	567.	1441	0.	0.079	1466	0.	8.24	0.080
386	5.65	5.65	1024	0.	5.75	420.	1133	0.	0.062	1178	0.	6.62	0.065
387	5.65	5.65	551	0.	3.10	226.	725	0.	0.040	796	0.	4.47	0.044
388	5.65	5.65	474	0.	2.66	194.	587	0.	0.032	677	0.	3.81	0.037
389	5.65	5.65	975	0.	5.48	400.	1039	0.	0.057	1068	0.	6.00	0.059
390	5.65	5.65	1727	0.	9.70	709.	1714	0.	0.094	1711	0.	9.62	0.094
391	5.65	5.65	2316	0.	13.01	950.	2242	0.	0.123	2215	0.	12.45	0.122
392	5.65	5.65	2686	0.	15.09	1102.	2575	0.	0.141	2533	0.	14.23	0.139
393	5.65	5.65	2839	0.	15.95	1165.	2714	0.	0.149	2666	0.	14.98	0.146
394	5.65	5.65	2948	0.	16.56	1210.	2813	0.	0.154	2761	0.	15.51	0.151
395	5.65	5.65	95	0.	0.53	39.	372	0.	0.020	509	0.	2.86	0.028
396	5.65	5.65	431	0.	2.42	177.	659	0.	0.036	750	0.	4.22	0.041
397	5.65	5.65	1055	0.	5.93	433.	1133	0.	0.062	1200	0.	6.74	0.066
398	5.65	5.65	2094	0.	11.76	859.	2023	0.	0.111	1998	0.	11.22	0.110
399	5.65	5.65	2945	0.	16.55	1208.	2776	0.	0.152	2712	0.	15.23	0.149
400	5.65	5.65	3348	0.	18.81	1373.	3133	0.	0.172	3049	0.	17.13	0.167
401	5.65	5.65	3684	0.	20.70	1511.	3430	0.	0.188	3331	0.	18.72	0.183
402	5.65	5.65	1497	0.	8.41	614.	1551	0.	0.085	1572	0.	8.83	0.086
403	5.65	5.65	1735	0.	9.75	712.	1765	0.	0.097	1776	0.	9.98	0.097
404	5.65	5.65	1920	0.	10.79	788.	1933	0.	0.106	1937	0.	10.88	0.106
405	5.65	5.65	2023	0.	11.37	830.	1938	0.	0.106	1944	0.	10.92	0.107
406	5.65	5.65	2675	0.	15.03	1097.	2482	0.	0.136	2408	0.	13.53	0.132
407	5.65	5.65	3052	0.	17.15	1252.	2815	0.	0.154	2723	0.	15.30	0.149
408	5.65	5.65	3394	0.	19.07	1393.	3116	0.	0.171	3007	0.	16.90	0.165
409	5.65	5.65	1342	0.	7.54	551.	1335	0.	0.073	1332	0.	7.48	0.073
410	5.65	5.65	1477	0.	8.30	606.	1452	0.	0.080	1442	0.	8.10	0.079
411	5.65	5.65	1503	0.	8.44	617.	1475	0.	0.081	1463	0.	8.22	0.080
412	5.65	5.65	1412	0.	7.93	579.	1396	0.	0.077	1388	0.	7.80	0.076
413	5.65	5.65	1619	0.	9.10	664.	1446	0.	0.079	1380	0.	7.75	0.076
414	5.65	5.65	1882	0.	10.58	772.	1678	0.	0.092	1599	0.	8.98	0.088
415	5.65	5.65	2155	0.	12.11	884.	1916	0.	0.105	1824	0.	10.25	0.100
416	5.65	5.65	19	0.	0.11	8.	71	0.	0.004	92	0.	0.52	0.005
417	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	24	0.	0.13	0.001
418	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
419	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
420	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
421	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
422	5.65	5.65	0.	0.	0.00	0.	22	0.	0.001	31	0.	0.18	0.002
423	5.65	5.65	21	0.	0.12	8.	36	0.	0.002	41	0.	0.23	0.002
424	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
425	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
426	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
427	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
428	5.65	5.65	95	0.	0.53	39.	0.	0.	0.000	0.	0.	0.00	0.000

MACROGUSCIO fondazione_primo_pia

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

CASI DI CARICO: ->

Nome	Descrizione
1	SLU SENZA SISMA
4	SLU con SISMAX PRINC
5	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2
 coefficiente sicurezza acciaio : 1.15
 deformazione ultima acciaio : 67.5 per mille
 deformazione ultima cls : 3.5 per mille
 rapporto rottura/snervamento (k): 1.15
 resistenza cilindrica cls (fck): 249 daN/cm2
 coefficiente sicurezza cls : 1.5
 coefficiente riduttivo (alfa): 0.85
 copriferro inferiore (asse armatura): 5 cm
 copriferro superiore (asse armatura): 3 cm
 moltiplicatore sollecitazioni : 1

LEGENDA:

spess = spessore guscio. Verifica effettuata su sezione BxH, con B=1 cm e H="spess" cm
 Af = area disposta al lembo teso, in cm2 al metro
 Afc = area disposta al lembo compresso, in cm2 al metro
 Mom = momento flettente [kgfm/m]
 Nor = sforzo normale [daN]
 epsC = deformazione cls [per mille]
 epsF = deformazione acciaio [per mille]

<- L'armatura è sufficiente se le deformazioni dei materiali sono ovunque minori delle corrispondenti deformazioni ultime.

INFERIORE ORIZZONTALE												INFERIORE VERTICALE													
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
471	50	5.65	5.65	1531.	0.	0.06	0.30	5.65	5.65	3800.	1.	0.15	0.75	5.65	5.65	3481.	1.	0.14	0.68	5.65	5.65	3616.	1.	0.14	0.71
472	50	5.65	5.65	679.	1.	0.02	0.14	5.65	5.65	4087.	1.	0.16	0.80	5.65	5.65	4275.	0.	0.17	0.84	5.65	5.65	4203.	0.	0.17	0.82
473	50	5.65	5.65	774.	1.	0.03	0.15	5.65	5.65	4110.	0.	0.16	0.80	5.65	5.65	36.	0.	0.00	0.01	5.65	5.65	182.	0.	0.00	0.04
474	50	5.65	5.65	1052.	0.	0.04	0.21	5.65	5.65	394.	0.	0.02	0.08	5.65	5.65	1012.	0.	0.04	0.20	5.65	5.65	1583.	0.	0.06	0.31
475	50	5.65	5.65	1504.	0.	0.06	0.29	5.65	5.65	1836.	0.	0.07	0.36	5.65	5.65	2009.	0.	0.08	0.39	5.65	5.65	0.	0.	0.00	0.00
476	50	5.65	5.65	1816.	0.	0.07	0.36	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
477	50	5.65	5.65	4055.	0.	0.16	0.79	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
478	50	5.65	5.65	726.	0.	0.03	0.14	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
479	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
480	50	5.65	5.65	44.	1.	0.00	0.01	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
481	50	5.65	5.65	578.	0.	0.02	0.11	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
482	50	5.65	5.65	1052.	0.	0.04	0.21	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
483	50	5.65	5.65	1452.	0.	0.06	0.28	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
484	50	5.65	5.65	3909.	0.	0.16	0.76	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
485	50	5.65	5.65	267.	0.	0.01	0.05	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
486	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
487	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
488	50	5.65	5.65	94.	0.	0.00	0.02	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
489	50	5.65	5.65	635.	0.	0.03	0.12	5.65	5.65	295.	0.	0.01	0.06	5.65	5.65	975.	0.	0.04	0.19	5.65	5.65	1442.	0.	0.06	0.28
490	50	5.65	5.65	1078.	0.	0.04	0.21	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
491	50	5.65	5.65	3679.	0.	0.15	0.72	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
492	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
493	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
494	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
495	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
496	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
497	50	5.65	5.65	708.	0.	0.03	0.14	5.65	5.65	290.	0.	0.01	0.06	5.65	5.65	828.	0.	0.03	0.16	5.65	5.65	0.	0.	0.00	0.00
498	50	5.65	5.65	3236.	0.	0.13	0.63	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
499	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
500	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
501	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
502	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
503	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
504	50	5.65	5.65	87.	0.	0.00	0.02	5.65	5.65	0.	0.	0.00	0.01	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
505	50	5.65	5.65	2762.	1.	0.11	0.54	5.65	5.65	186.	1.	0.00	0.04	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
506	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
507	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
508	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
509	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
510	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
511	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.01	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
512	50	5.65	5.65	1870.	1.	0.07	0.37	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
513	50	5.65	5.65	391.	0.	0.01	0.08	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
514	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
515	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
516	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
517	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
518	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.01	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
519	50	5.65	5.65	1334.	3.	0.05	0.27	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
520	50	5.65	5.65	1493.	0.	0.06	0.29	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
521	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
522	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
523	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
524	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
525	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
526	50	5.65	5.65	1763.	1.	0.07	0.35	5.65	5.65	0.	0.	0.00	0.02	5.											

503	50	5.65	5.65	5506.	0.	0.20	1.02	5.65	5.65	5681.	0.	0.20	1.06
504	50	5.65	5.65	5070.	0.	0.18	0.94	5.65	5.65	4987.	1.	0.18	0.93
505	50	5.65	5.65	3290.	1.	0.12	0.62	5.65	5.65	4594.	1.	0.16	0.86
506	50	5.65	5.65	3149.	0.	0.11	0.59	5.65	5.65	8306.	0.	0.30	1.54
507	50	5.65	5.65	4564.	0.	0.16	0.85	5.65	5.65	7620.	0.	0.28	1.42
508	50	5.65	5.65	5086.	0.	0.18	0.95	5.65	5.65	6781.	0.	0.24	1.26
509	50	5.65	5.65	5061.	0.	0.18	0.94	5.65	5.65	5349.	0.	0.19	0.99
510	50	5.65	5.65	5441.	0.	0.20	1.01	5.65	5.65	4841.	0.	0.17	0.90
511	50	5.65	5.65	4707.	0.	0.17	0.88	5.65	5.65	4151.	1.	0.15	0.78
512	50	5.65	5.65	2512.	2.	0.08	0.48	5.65	5.65	3757.	2.	0.13	0.71
513	50	5.65	5.65	4679.	0.	0.17	0.87	5.65	5.65	8658.	0.	0.31	1.61
514	50	5.65	5.65	5884.	0.	0.21	1.09	5.65	5.65	7876.	0.	0.28	1.46
515	50	5.65	5.65	6316.	0.	0.23	1.17	5.65	5.65	6967.	0.	0.25	1.30
516	50	5.65	5.65	5907.	0.	0.21	1.10	5.65	5.65	5484.	0.	0.20	1.02
517	50	5.65	5.65	5423.	0.	0.20	1.01	5.65	5.65	4092.	0.	0.15	0.76
518	50	5.65	5.65	4431.	0.	0.16	0.82	5.65	5.65	3161.	1.	0.11	0.59
519	50	5.65	5.65	1664.	3.	0.05	0.32	5.65	5.65	2817.	2.	0.10	0.53
520	50	5.65	5.65	5770.	0.	0.21	1.07	5.65	5.65	8513.	0.	0.31	1.58
521	50	5.65	5.65	6829.	0.	0.25	1.27	5.65	5.65	7579.	0.	0.27	1.41
522	50	5.65	5.65	7198.	0.	0.26	1.34	5.65	5.65	6550.	0.	0.24	1.22
523	50	5.65	5.65	6665.	0.	0.24	1.24	5.65	5.65	4941.	0.	0.18	0.92
524	50	5.65	5.65	5440.	0.	0.20	1.01	5.65	5.65	3725.	0.	0.13	0.69
525	50	5.65	5.65	4259.	0.	0.15	0.79	5.65	5.65	3093.	2.	0.10	0.59
526	50	5.65	5.65	939.	3.	0.02	0.19	5.65	5.65	2774.	3.	0.09	0.53
527	50	5.65	5.65	6891.	0.	0.25	1.28	5.65	5.65	9317.	0.	0.34	1.73
528	50	5.65	5.65	7746.	0.	0.28	1.44	5.65	5.65	7597.	0.	0.27	1.41
529	50	5.65	5.65	7995.	0.	0.29	1.49	5.65	5.65	5890.	0.	0.21	1.09
530	50	5.65	5.65	7295.	0.	0.26	1.36	5.65	5.65	3285.	0.	0.12	0.61
531	50	5.65	5.65	5769.	0.	0.21	1.07	5.65	5.65	1966.	1.	0.07	0.37
532	50	5.65	5.65	4137.	0.	0.15	0.77	5.65	5.65	1883.	1.	0.06	0.36
533	50	5.65	5.65	332.	5.	0.00	0.08	5.65	5.65	2345.	2.	0.08	0.44

L'ARMATURA È OVUNQUE > DELLA QUANTITÀ RICHIESTA: IL PUNTO 2.3 DELLE NTC È VERIFICATO (Rd > Ed)

MACROGUSCIO fondazione_primo_pia

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

CASI DI CARICO: ->

Nome	Descrizione
10	Rara (RARA)
11	Frequente (FREQUENTE)
12	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 5 cm
copriferro superiore (asse armatura): 3 cm

Af = area effettiva tesa (cm2 al metro)

Afc = area effettiva compressa (cm2 al metro)

Mom = momento flettente [kgfm/m]

Nor = sforzo normale [daN]

σc = tensione calcestruzzo [daN/cm2]

valore max per combinazione rara = 149.4 daN/cm2

quasi permanente = 112 daN/cm2

σf = tensione acciaio [daN/cm2]

valore max per combinazione rara = 3600 daN/cm2

wkf = apertura caratteristica per combinazione frequente (mm) - valore max = 0.4 mm

wkp = apertura caratteristica per combinazione quasi permanente (mm) - valore max = 0.3 mm

<-

ARMATURA INFERIORE ORIZZONTALE

GUSCICI	COMBINAZIONE RARA					COMB. FREQUENTE			COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	σc	Mom	Nor	wkf	Mom	Nor	σc	wkp
471	5.65	5.65	34	0.	0.19	84	0.	0.005	105	0.	0.59	0.006
472	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
473	5.65	5.65	0.	0.	0.00	0.	0.	0.001	0.	0.	0.00	0.000
474	5.65	5.65	380	0.	2.14	390	0.	0.022	393	0.	2.21	0.022
475	5.65	5.65	858	0.	4.82	829	0.	0.046	818	0.	4.60	0.045
476	5.65	5.65	1262	0.	7.09	1215	0.	0.067	1196	0.	6.72	0.066
477	5.65	5.65	1534	1	8.61	1508	0.	0.083	1498	0.	8.41	0.083
478	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
479	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
480	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
481	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
482	5.65	5.65	393	0.	2.21	407	0.	0.022	412	0.	2.31	0.023
483	5.65	5.65	948	0.	5.32	925	0.	0.051	916	0.	5.15	0.050
484	5.65	5.65	1621	0.	9.10	1575	0.	0.087	1557	0.	8.75	0.086
485	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
486	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
487	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
488	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
489	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
490	5.65	5.65	599	0.	3.37	607	0.	0.033	610	0.	3.43	0.034
491	5.65	5.65	1561	0.	8.77	1513	0.	0.083	1495	0.	8.40	0.082
492	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
493	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
494	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
495	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
496	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
497	5.65	5.65	0.	0.	0.00	43	0.	0.002	66	0.	0.37	0.004
498	5.65	5.65	1700	1	9.55	1617	1	0.090	1585	1	8.90	0.088
499	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
500	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
501	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
502	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
503	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
504	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000

505	5.65	5.65	1229	1	6.90	512.	1187	1	0.067	1171	1	6.57	0.066
506	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
507	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
508	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
509	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
510	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
511	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
512	5.65	5.65	629	1	3.52	268.	647	1	0.037	654	1	3.66	0.038
513	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
514	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
515	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
516	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
517	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
518	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
519	5.65	5.65	139	1	0.76	69.	215	1	0.014	247	1	1.37	0.016
520	5.65	5.65	438	0.	2.46	180.	280	0.	0.015	220	0.	1.24	0.012
521	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
522	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
523	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
524	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
525	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
526	5.65	5.65	467	1	2.61	204.	495	1	0.029	508	1	2.84	0.030
527	5.65	5.65	1396	0.	7.84	573.	1103	0.	0.061	992	0.	5.58	0.054
528	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
529	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
530	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
531	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
532	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
533	5.65	5.65	607	1	3.40	261.	608	1	0.036	611	1	3.42	0.036

ARMATURA INFERIORE VERTICALE

GUSCI			COMBINAZIONE RARA				COMB. FREQUENTE				COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	wkF		Mom	Nor	σc	wkP
471	5.65	5.65	1371	1	7.70	569.	1369	1	0.076		1370	1	7.69	0.076
472	5.65	5.65	1576	1	8.85	653.	1539	1	0.085		1526	1	8.57	0.085
473	5.65	5.65	2055	0.	11.54	848.	1928	0.	0.107		1881	0.	10.57	0.104
474	5.65	5.65	2332	0.	13.10	961.	2188	0.	0.121		2135	0.	11.99	0.118
475	5.65	5.65	2532	0.	14.22	1041.	2382	0.	0.131		2327	0.	13.07	0.128
476	5.65	5.65	2027	1	11.39	838.	1969	1	0.109		1947	1	10.93	0.108
477	5.65	5.65	1788	1	10.04	742.	1776	1	0.099		1770	1	9.94	0.098
478	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
479	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
480	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
481	5.65	5.65	23	0.	0.13	9.	93	0.	0.005		119	0.	0.67	0.007
482	5.65	5.65	707	0.	3.97	291.	715	0.	0.039		718	0.	4.03	0.039
483	5.65	5.65	1063	0.	5.97	439.	1047	0.	0.058		1040	0.	5.84	0.057
484	5.65	5.65	1328	0.	7.46	549.	1294	0.	0.072		1280	0.	7.19	0.071
485	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
486	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
487	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
488	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
489	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
490	5.65	5.65	286	0.	1.61	119.	326	0.	0.018		340	0.	1.91	0.019
491	5.65	5.65	820	0.	4.61	339.	812	0.	0.045		808	0.	4.54	0.045
492	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
493	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
494	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
495	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
496	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
497	5.65	5.65	211	0.	1.18	91.	254	0.	0.015		270	0.	1.51	0.016
498	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
499	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
500	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
501	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
502	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
503	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000		0.	0.	0.00	0.000
504	5.65	5.65	0.	0.	0.00	4.	0.	0.	0.001		0.	0.	0.00	0.001
505	5.65	5.65	0.	1	0.00	5.	0.	1	0.001		0.	1	0.00	0.001
506	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
507	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
508	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
509	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
510	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000		0.	0.	0.00	0.000
511	5.65	5.65	0.	1	0.00	6.	0.	1	0.002		0.	1	0.00	0.001
512	5.65	5.65	0.	1	0.00	8.	0.	1	0.002		0.	1	0.00	0.002
513	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
514	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
515	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
516	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
517	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000		0.	0.	0.00	0.000
518	5.65	5.65	0.	1	0.00	5.	0.	1	0.001		0.	1	0.00	0.001
519	5.65	5.65	0.	1	0.00	8.	0.	1	0.002		0.	1	0.00	0.002
520	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
521	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
522	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
523	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
524	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.001		0.	0.	0.00	0.001
525	5.65	5.65	0.	1	0.00	7.	0.	1	0.002		0.	1	0.00	0.002
526	5.65	5.65	0.	1	0.00	10.	0.	1	0.002		0.	1	0.00	0.002
527	5.65	5.65	894	0.	5.03	367.	744	0.	0.041		687	0.	3.86	0.038
528	5.65	5.65	251	0.	1.41	103.	84	0.	0.005		24	0.	0.13	0.001
529	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
530	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000		0.	0.	0.00	0.000
531	5.65	5.65	0.	0.	0.00	3.	0.	0.	0.001		0.	0.	0.00	0.001
532	5.65	5.65	0.	1	0.00	7.	0.	1	0.002		0.	1	0.00	0.002
533	5.65	5.65	0.	1	0.00	9.	0.	1	0.002		0.	1	0.00	0.002

ARMATURA SUPERIORE ORIZZONTALE

GUSCI			COMBINAZIONE RARA				COMB. FREQUENTE				COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	wkF		Mom	Nor	σc	wkP
471	5.65	5.65	1953	0.	10.97	804.	1762	0.	0.097		1694	0.	9.51	0.093

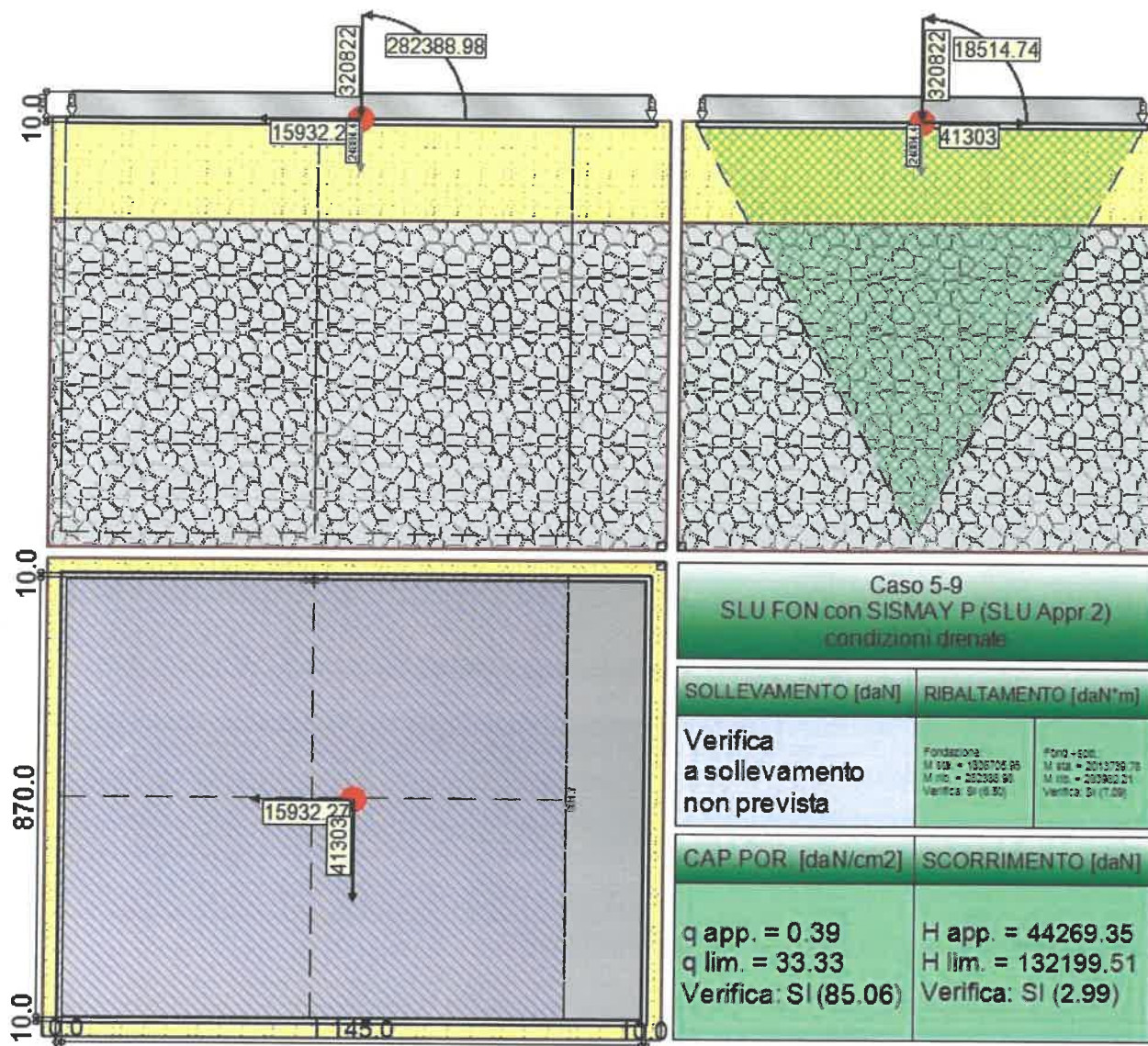
472	5.65	5.65	1910	0.	10.73	786.	1756	0.	0.097	1699	0.	9.55	0.094
473	5.65	5.65	2277	0.	12.79	936.	2107	0.	0.116	2044	0.	11.48	0.112
474	5.65	5.65	2936	0.	16.50	1206.	2717	0.	0.149	2635	0.	14.80	0.145
475	5.65	5.65	3633	0.	20.41	1492.	3357	0.	0.184	3253	0.	18.28	0.179
476	5.65	5.65	4127	0.	23.19	1695.	3802	0.	0.209	3680	0.	20.68	0.202
477	5.65	5.65	2898	1	16.28	1194.	2705	0.	0.149	2630	0.	14.77	0.145
478	5.65	5.65	1688	0.	9.48	694.	1539	0.	0.085	1486	0.	8.35	0.082
479	5.65	5.65	1913	0.	10.75	786.	1768	0.	0.097	1715	0.	9.64	0.094
480	5.65	5.65	2426	0.	13.63	997.	2248	0.	0.124	2182	0.	12.26	0.120
481	5.65	5.65	3130	0.	17.59	1285.	2898	0.	0.159	2811	0.	15.79	0.154
482	5.65	5.65	3782	0.	21.25	1552.	3495	0.	0.192	3388	0.	19.03	0.186
483	5.65	5.65	4098	0.	23.02	1682.	3779	0.	0.207	3659	0.	20.56	0.201
484	5.65	5.65	2765	0.	15.53	1138.	2581	0.	0.142	2510	0.	14.10	0.138
485	5.65	5.65	1445	0.	8.12	594.	1331	0.	0.073	1291	0.	7.25	0.071
486	5.65	5.65	1876	0.	10.54	771.	1741	0.	0.096	1691	0.	9.50	0.093
487	5.65	5.65	2517	0.	14.14	1034.	2336	0.	0.128	2268	0.	12.74	0.125
488	5.65	5.65	3254	0.	18.28	1336.	3014	0.	0.165	2924	0.	16.43	0.160
489	5.65	5.65	3853	0.	21.65	1581.	3562	0.	0.195	3453	0.	19.40	0.190
490	5.65	5.65	4013	0.	22.54	1647.	3704	0.	0.203	3588	0.	20.16	0.197
491	5.65	5.65	2571	0.	14.44	1056.	2401	0.	0.132	2337	0.	13.13	0.128
492	5.65	5.65	875	0.	4.92	359.	849	0.	0.047	841	0.	4.72	0.046
493	5.65	5.65	1814	0.	10.19	744.	1702	0.	0.093	1660	0.	9.33	0.091
494	5.65	5.65	2720	0.	15.28	1116.	2530	0.	0.139	2459	0.	13.82	0.135
495	5.65	5.65	3532	0.	19.85	1449.	3274	0.	0.180	3177	0.	17.85	0.174
496	5.65	5.65	4036	0.	22.68	1656.	3735	0.	0.205	3622	0.	20.35	0.199
497	5.65	5.65	3859	0.	21.68	1583.	3570	0.	0.196	3462	0.	19.45	0.190
498	5.65	5.65	2237	1	12.57	922.	2089	1	0.116	2033	1	11.42	0.113
499	5.65	5.65	1265	0.	7.11	519.	1065	0.	0.058	989	0.	5.56	0.054
500	5.65	5.65	2193	0.	12.32	900.	1907	0.	0.105	1799	0.	10.11	0.099
501	5.65	5.65	2789	0.	15.67	1144.	2600	0.	0.143	2530	0.	14.21	0.139
502	5.65	5.65	3661	0.	20.57	1502.	3395	0.	0.186	3296	0.	18.52	0.181
503	5.65	5.65	4057	0.	22.79	1664.	3757	0.	0.206	3645	0.	20.48	0.200
504	5.65	5.65	3620	0.	20.34	1485.	3355	0.	0.184	3256	0.	18.29	0.179
505	5.65	5.65	1810	1	10.16	750.	1700	1	0.095	1658	1	9.31	0.093
506	5.65	5.65	1992	0.	11.19	817.	1713	0.	0.094	1608	0.	9.04	0.088
507	5.65	5.65	3004	0.	16.88	1233.	2629	0.	0.144	2488	0.	13.98	0.136
508	5.65	5.65	3382	0.	19.00	1388.	2981	0.	0.164	2830	0.	15.90	0.155
509	5.65	5.65	3721	0.	20.91	1527.	3454	0.	0.189	3354	0.	18.84	0.184
510	5.65	5.65	4006	0.	22.51	1644.	3713	0.	0.204	3603	0.	20.24	0.198
511	5.65	5.65	3320	0.	18.65	1362.	3084	0.	0.169	2995	0.	16.83	0.164
512	5.65	5.65	1260	1	7.07	527.	1194	1	0.067	1169	1	6.56	0.066
513	5.65	5.65	2862	0.	16.08	1174.	2489	0.	0.137	2348	0.	13.19	0.129
514	5.65	5.65	3890	0.	21.85	1596.	3417	0.	0.187	3238	0.	18.19	0.178
515	5.65	5.65	4250	0.	23.88	1744.	3753	0.	0.206	3566	0.	20.04	0.196
516	5.65	5.65	4005	0.	22.50	1643.	3548	0.	0.195	3399	0.	19.10	0.186
517	5.65	5.65	3974	0.	22.33	1630.	3682	0.	0.202	3573	0.	20.07	0.196
518	5.65	5.65	3059	0.	17.19	1255.	2843	0.	0.156	2761	0.	15.52	0.151
519	5.65	5.65	618	1	3.46	266.	592	1	0.035	582	1	3.26	0.034
520	5.65	5.65	3756	0.	21.10	1541.	3286	0.	0.180	3109	0.	17.47	0.171
521	5.65	5.65	4718	0.	26.51	1935.	4151	0.	0.228	3938	0.	22.12	0.216
522	5.65	5.65	5008	0.	28.14	2054.	4426	0.	0.243	4207	0.	23.64	0.231
523	5.65	5.65	4657	0.	26.16	1910.	4127	0.	0.226	3928	0.	22.07	0.215
524	5.65	5.65	4009	0.	22.52	1645.	3711	0.	0.204	3599	0.	20.22	0.197
525	5.65	5.65	2915	0.	16.38	1196.	2705	0.	0.148	2625	0.	14.75	0.144
526	5.65	5.65	17	1	0.00	19.	22	1	0.004	23	1	0.03	0.004
527	5.65	5.65	4448	0.	24.99	1825.	3903	0.	0.214	3698	0.	20.78	0.203
528	5.65	5.65	5376	0.	30.21	2206.	4736	0.	0.260	4495	0.	25.25	0.247
529	5.65	5.65	5601	0.	31.47	2298.	4953	0.	0.272	4709	0.	26.46	0.258
530	5.65	5.65	5143	0.	28.90	2110.	4559	0.	0.250	4339	0.	24.38	0.238
531	5.65	5.65	4045	0.	22.72	1659.	3741	0.	0.205	3626	0.	20.37	0.199
532	5.65	5.65	2801	0.	15.74	1149.	2596	0.	0.142	2519	0.	14.15	0.138
533	5.65	5.65	0.	1	0.00	12.	0.	1	0.003	0.	1	0.00	0.003

ARMATURA SUPERIORE VERTICALE

GUSCI	Af	Afc	COMBINAZIONE RARA				COMB. FREQUENTE				COMB. QUASI PERMANENTE			
			Mom	Nor	σc	σf	Mom	Nor	WkF	Mom	Nor	σc	WkP	
471	5.65	5.65	1723	1	9.68	714.	1427	1	0.079	1317	1	7.39	0.073	
472	5.65	5.65	1532	1	8.60	634.	1294	1	0.072	1205	1	6.77	0.067	
473	5.65	5.65	1181	1	6.63	490.	1047	0.	0.058	997	0.	5.60	0.056	
474	5.65	5.65	1415	0.	7.95	585.	1295	0.	0.072	1249	0.	7.01	0.069	
475	5.65	5.65	1699	0.	9.54	700.	1579	0.	0.087	1533	0.	8.61	0.084	
476	5.65	5.65	2033	1	11.42	840.	1869	1	0.104	1807	1	10.15	0.100	
477	5.65	5.65	2209	1	12.40	915.	2028	1	0.113	1960	1	11.01	0.109	
478	5.65	5.65	3568	0.	20.05	1464.	3198	0.	0.175	3060	0.	17.19	0.168	
479	5.65	5.65	3502	0.	19.68	1437.	3156	0.	0.173	3026	0.	17.00	0.166	
480	5.65	5.65	3422	0.	19.23	1404.	3108	0.	0.170	2990	0.	16.80	0.164	
481	5.65	5.65	3550	0.	19.94	1456.	3246	0.	0.178	3133	0.	17.60	0.172	
482	5.65	5.65	3743	0.	21.03	1536.	3434	0.	0.188	3318	0.	18.64	0.182	
483	5.65	5.65	3969	0.	22.30	1631.	3639	0.	0.200	3516	0.	19.76	0.193	
484	5.65	5.65	4083	0.	22.94	1679.	3743	0.	0.206	3616	0.	20.31	0.199	
485	5.65	5.65	4709	0.	26.46	1932.	4278	0.	0.235	4116	0.	23.13	0.226	
486	5.65	5.65	4646	0.	26.10	1906.	4229	0.	0.232	4073	0.	22.89	0.223	
487	5.65	5.65	4554	0.	25.59	1868.	4158	0.	0.228	4010	0.	22.53	0.220	
488	5.65	5.65	4531	0.	25.46	1859.	4150	0.	0.228	4008	0.	22.52	0.220	
489	5.65	5.65	4454	0.	25.03	1828.	4090	0.	0.224	3954	0.	22.22	0.217	
490	5.65	5.65	4302	0.	24.17	1767.	3957	0.	0.217	3828	0.	21.51	0.210	
491	5.65	5.65	4178	0.	23.47	1717.	3847	0.	0.212	3724	0.	20.92	0.205	
492	5.65	5.65	5158	0.	28.98	2116.	4704	0.	0.258	4534	0.	25.47	0.249	
493	5.65	5.65	5063	0.	28.45	2077.	4623	0.	0.254	4459	0.	25.05	0.245	
494	5.65	5.65	4905	0.	27.56	2012.	4488	0.	0.246	4332	0.	24.34	0.238	
495	5.65	5.65	4734	0.	26.60	1942.	4343	0.	0.238	4196	0.	23.58	0.230	
496	5.65	5.65	4440	0.	24.94	1822.	4083	0.	0.224	3950	0.	22.19	0.217	
497	5.65	5.65	4077	0.	22.90	1675.	3758	0.	0.207	3639	0.	20.44	0.200	
498	5.65	5.65	3805	0.	21.37	1565.	3514	0.	0.194	3405	0.	19.13	0.188	
499	5.65	5.65	5393	0.	30.30	2213.	4773	0.	0.262	4540	0.	25.51	0.249	
500	5.65	5.65	4924	0.	27.67	2020.	4497	0.	0.247	4339	0.	24.38	0.238	
501	5.65	5.65	4706	0.	26.44	1931.	4311	0.	0.236	4163	0.	23.39	0.228	
502	5.65	5.65	4442	0.	24.96	1822.	4080	0.	0.224	3945	0.	22.17	0.216	
503	5.65	5.65	4035	0.	22.67	1657.	3718	0.	0.204	3600	0.	20.22	0.198	
504	5.65	5.65	3585	0.	20.14	1474.	3313	0.	0.182	3211	0.	18.04	0.177	
505	5.65	5.65	3251	1	18.26	1339.	3012	1	0.166	2922	1	16.41	0.161	
506	5.65	5.65	5893	0.	33.11	2418.	5208	0.	0.286	4951	0.	27.81	0.272	
507	5.65	5.65	5373	0.	30.19	2204.	4745	0.	0.260	4508	0.	25.33	0.247	

508	5.65	5.65	4566	0.	25.65	1873.	4025	0.	0.221	3822	0.	21.47	0.210
509	5.65	5.65	3831	0.	21.53	1572.	3527	0.	0.193	3413	0.	19.17	0.187
510	5.65	5.65	3415	0.	19.19	1403.	3155	0.	0.173	3058	0.	17.18	0.168
511	5.65	5.65	2971	1	16.69	1225.	2755	1	0.152	2674	1	15.02	0.148
512	5.65	5.65	2638	1	14.81	1091.	2455	1	0.136	2386	1	13.40	0.132
513	5.65	5.65	6116	0.	34.36	2509.	5388	0.	0.296	5114	0.	28.73	0.281
514	5.65	5.65	5533	0.	31.09	2270.	4870	0.	0.267	4621	0.	25.96	0.253
515	5.65	5.65	4658	0.	26.17	1911.	4092	0.	0.224	3879	0.	21.79	0.213
516	5.65	5.65	3598	0.	20.22	1476.	3148	0.	0.173	2979	0.	16.74	0.163
517	5.65	5.65	2700	0.	15.17	1110.	2505	0.	0.138	2431	0.	13.66	0.134
518	5.65	5.65	2265	1	12.72	935.	2114	1	0.117	2057	1	11.55	0.114
519	5.65	5.65	1963	1	11.02	813.	1841	1	0.102	1795	1	10.08	0.100
520	5.65	5.65	5957	0.	33.47	2444.	5221	0.	0.286	4945	0.	27.78	0.271
521	5.65	5.65	5277	0.	29.65	2165.	4619	0.	0.253	4372	0.	24.56	0.240
522	5.65	5.65	4285	0.	24.07	1758.	3739	0.	0.205	3534	0.	19.85	0.194
523	5.65	5.65	3185	0.	17.89	1307.	2763	0.	0.152	2604	0.	14.63	0.143
524	5.65	5.65	2423	0.	13.61	997.	2085	0.	0.115	1958	0.	11.00	0.108
525	5.65	5.65	2092	1	11.75	866.	1790	1	0.099	1675	1	9.41	0.093
526	5.65	5.65	1918	1	10.77	797.	1633	1	0.091	1525	1	8.56	0.085
527	5.65	5.65	5430	0.	30.51	2228.	4724	0.	0.259	4459	0.	25.05	0.245
528	5.65	5.65	4563	0.	25.64	1872.	3961	0.	0.217	3735	0.	20.99	0.205
529	5.65	5.65	3218	0.	18.08	1320.	2778	0.	0.152	2613	0.	14.68	0.143
530	5.65	5.65	2013	0.	11.31	826.	1714	0.	0.094	1601	0.	9.00	0.088
531	5.65	5.65	1162	0.	6.53	479.	960	0.	0.053	884	0.	4.97	0.049
532	5.65	5.65	1286	1	7.22	534.	1061	1	0.059	977	1	5.48	0.055
533	5.65	5.65	1232	1	6.91	515.	1105	1	0.062	1058	1	5.94	0.060

Valutazione della stabilità, capacità portante e resistenza a scorrimento di una fondazione superficiale



Descrizione dei Casi di calcolo e riassunto dei risultati.

Segue il riassunto dei Casi di calcolo analizzati. I dettagli di ciascun Caso (sollecitazioni, verifiche, ecc.) sono specificati nei paragrafi successivi.

Indici e nomi dei casi di carico			Elenco delle verifiche eseguite per ciascun caso				Sisma
Caso	Nome	Sestetti	Ver. dren.	Ver. non dren.	Ver. equ.	Ver. upl.	Coef. sism.
1	SLU SENZA SISMA (SLU Appr.2)	1-1	Si	No	Si	No	Non sismico
1-1 Caso 1-1							
2	SLU con SISMAX da PRINC (SLU Appr.2)	2-1 a 2-16	Si	No	Si	No	$k_{h,x} = 0.16$, $k_{h,y} = 0.00$
2-1 Caso 4-1; 2-2 Caso 4-2; 2-3 Caso 4-3; 2-4 Caso 4-4; 2-5 Caso 4-5; 2-6 Caso 4-6; 2-7 Caso 4-7; 2-8 Caso 4-8; 2-9 Caso 4-9; 2-10 Caso 4-10; 2-11 Caso 4-							

11; 2-12 Caso 4-12; 2-13 Caso 4-13; 2-14 Caso 4-14; 2-15 Caso 4-15; 2-16 Caso 4-16							
3	SLU con SISMAYda PRINC (SLU Appr.2)	3-1	Si	No	Si	No	$k_{h,x} = 0.00, k_{h,y} = 0.16$
3-1 Caso 5-1; 3-2 Caso 5-2; 3-3 Caso 5-3; 3-4 Caso 5-4; 3-5 Caso 5-5; 3-6 Caso 5-6; 3-7 Caso 5-7; 3-8 Caso 5-8; 3-9 Caso 5-9; 3-10 Caso 5-10; 3-11 Caso 5-11; 3-12 Caso 5-12; 3-13 Caso 5-13; 3-14 Caso 5-14; 3-15 Caso 5-15; 3-16 Caso 5-16							
4	SLU FON con SISMAY P (SLU Appr.2)	4-1	Si	No	Si	No	$k_{h,x} = 0.16, k_{h,y} = 0.00$
4-1 Caso 8-1; 4-2 Caso 8-2; 4-3 Caso 8-3; 4-4 Caso 8-4; 4-5 Caso 8-5; 4-6 Caso 8-6; 4-7 Caso 8-7; 4-8 Caso 8-8; 4-9 Caso 8-9; 4-10 Caso 8-10; 4-11 Caso 8-11; 4-12 Caso 8-12; 4-13 Caso 8-13; 4-14 Caso 8-14; 4-15 Caso 8-15; 4-16 Caso 8-16							
5	SLU FON con SISMAY P (SLU Appr.2)	5-1	Si	No	Si	No	$k_{h,x} = 0.00, k_{h,y} = 0.16$
5-1 Caso 9-1; 5-2 Caso 9-2; 5-3 Caso 9-3; 5-4 Caso 9-4; 5-5 Caso 9-5; 5-6 Caso 9-6; 5-7 Caso 9-7; 5-8 Caso 9-8; 5-9 Caso 9-9; 5-10 Caso 9-10; 5-11 Caso 9-11; 5-12 Caso 9-12; 5-13 Caso 9-13; 5-14 Caso 9-14; 5-15 Caso 9-15; 5-16 Caso 9-16							
6	SLD con SISMAYda PRINC (SLD)	6-1	Si	No	Si	No	$k_{h,x} = 0.16, k_{h,y} = 0.00$
6-1 Caso 6-1; 6-2 Caso 6-2; 6-3 Caso 6-3; 6-4 Caso 6-4; 6-5 Caso 6-5; 6-6 Caso 6-6; 6-7 Caso 6-7; 6-8 Caso 6-8; 6-9 Caso 6-9; 6-10 Caso 6-10; 6-11 Caso 6-11; 6-12 Caso 6-12; 6-13 Caso 6-13; 6-14 Caso 6-14; 6-15 Caso 6-15; 6-16 Caso 6-16							
7	SLD con SISMAYda PRINC (SLD)	7-1	Si	No	Si	No	$k_{h,x} = 0.00, k_{h,y} = 0.16$
7-1 Caso 7-1; 7-2 Caso 7-2; 7-3 Caso 7-3; 7-4 Caso 7-4; 7-5 Caso 7-5; 7-6 Caso 7-6; 7-7 Caso 7-7; 7-8 Caso 7-8; 7-9 Caso 7-9; 7-10 Caso 7-10; 7-11 Caso 7-11; 7-12 Caso 7-12; 7-13 Caso 7-13; 7-14 Caso 7-14; 7-15 Caso 7-15; 7-16 Caso 7-16							

La seguente tabella elenca i coefficienti di sicurezza parziali, applicati alle caratteristiche meccaniche del terreno, alla capacità portante, alla resistenza a scorrimento e del terreno, per ciascun Caso di calcolo.

Caso	$\gamma_{G1,lev}$	$\gamma_{G1,sta}$	$\gamma_{G2,lev}$	$\gamma_{G2,sta}$	$\gamma_{Q1,lev}$	$\gamma_{Q1,sta}$
1	1.00	1.30	0.80	1.50	0.00	1.50
2	1.00	1.00	1.00	1.00	1.00	1.00
3	1.00	1.00	1.00	1.00	1.00	1.00
4	1.00	1.00	1.00	1.00	1.00	1.00
5	1.00	1.00	1.00	1.00	1.00	1.00
6	-	-	-	-	-	-
7	-	-	-	-	-	-

Caso	γ_r	γ_e	γ_c	$\gamma_{R,v}$	$\gamma_{R,h}$	$\gamma_{R,x}$	$\gamma_{R,ssu}$	$\gamma_{R,imp}$
1	1.00	1.00	1.00	2.30	1.10	1.00	1.00	1.00
2	-	-	-	1.80	1.10	1.30	1.00	1.00
3	-	-	-	1.80	1.10	1.30	1.00	1.00
4	-	-	-	1.80	1.10	1.30	1.00	1.00
5	-	-	-	1.80	1.10	1.30	1.00	1.00
6	-	-	-	2.30	1.10	1.30	-	-
7	-	-	-	2.30	1.10	1.30	-	-

Segue la tabella riassuntiva di tutte le verifiche a **ribaltamento**.

Caso	Fondazione		Verifica	Fondazione e Sottofondo		
	R_d [daN*m]	E_d [daN*m]		R_d [daN*m]	E_d [daN*m]	Verifica
1-1	2888674.7	403493.1	SI (2888674.7/403493.1 = 7.16 >= 1.0)	3127569	404319	SI (3127569/404319 = 7.74 >= 1.0)
2-1	1854442	282024.4	SI (1854442/282024.4 = 6.58 >= 1.0)	2031785.6	284432.6	SI (2031785.6/284432.6 = 7.14 >= 1.0)
2-2	1859210.9	281943.7	SI (1859210.9/281943.7 = 6.59 >= 1.0)	2036637.9	284169.6	SI (2036637.9/284169.6 = 7.17 >= 1.0)
2-3	1853611.9	281667.6	SI (1853611.9/281667.6 = 6.58 >= 1.0)	2030941	284107.5	SI (2030941/284107.5 = 7.15 >= 1.0)
2-4	1858380.8	281586.9	SI (1858380.8/281586.9 = 6.60 >= 1.0)	2035793.2	283844.6	SI (2035793.2/283844.6 = 7.17 >= 1.0)
2-5	1825175.8	284816.4	SI (1825175.8/284816.4 = 6.41 >= 1.0)	2002935.1	284816.4	SI (2002935.1/284816.4 = 7.03 >= 1.0)
2-6	1829950.4	284735.7	SI (1829950.4/284735.7 = 6.43 >= 1.0)	2007975.4	284735.7	SI (2007975.4/284735.7 = 7.05 >= 1.0)
2-7	1824345.7	284459.6	SI (1824345.7/284459.6 = 6.41 >= 1.0)	2002058.7	284459.6	SI (2002058.7/284459.6 = 7.04 >= 1.0)
2-8	1829114.6	284378.9	SI (1829114.6/284378.9 = 6.43 >= 1.0)	2007093.2	284378.9	SI (2007093.2/284378.9 = 7.06 >= 1.0)
2-9	1855546.9	282484.6	SI (1855546.9/282484.6 = 6.57 >= 1.0)	2032909.9	284848.6	SI (2032909.9/284848.6 = 7.14 >= 1.0)
2-10	1860315.8	282403.9	SI (1860315.8/282403.9 = 6.59 >= 1.0)	2037762.1	284585.7	SI (2037762.1/284585.7 = 7.16 >= 1.0)
2-11	1854716.8	282127.8	SI (1854716.8/282127.8 = 6.57 >= 1.0)	2032065.2	284523.6	SI (2032065.2/284523.6 = 7.14 >= 1.0)
2-12	1859485.7	282047	SI (1859485.7/282047 = 6.59 >= 1.0)	2036917.5	284260.6	SI (2036917.5/284260.6 = 7.17 >= 1.0)
2-13	1826280.7	285276.6	SI (1826280.7/285276.6 = 6.40 >= 1.0)	2004103.5	285276.6	SI (2004103.5/285276.6 = 7.03 >= 1.0)
2-14	1831055.4	285195.8	SI (1831055.4/285195.8 = 6.42 >= 1.0)	2009143.8	285195.8	SI (2009143.8/285195.8 = 7.04 >= 1.0)
2-15	1825450.6	284919.8	SI (1825450.6/284919.8 = 6.41 >= 1.0)	2003227.1	284919.8	SI (2003227.1/284919.8 = 7.03 >= 1.0)
2-16	1830225.2	284839	SI (1830225.2/284839 = 6.43 >= 1.0)	2008267.4	284839	SI (2008267.4/284839 = 7.05 >= 1.0)
3-1	1839992.1	283673.2	SI (1839992.1/283673.2 = 6.49 >= 1.0)	2017083.3	285074.2	SI (2017083.3/285074.2 = 7.08 >= 1.0)
3-2	1831209.9	284510.8	SI (1831209.9/284510.8 = 6.44 >= 1.0)	2008147.8	284911.3	SI (2008147.8/284911.3 = 7.05 >= 1.0)

3-3	1840324.2	283811.2	SI (1840324.2/283811.2 = 6.48 >= 1.0)	2017421.2	285199	SI (2017421.2/285199 = 7.07 >= 1.0)
3-4	1831542	284648.8	SI (1831542/284648.8 = 6.43 >= 1.0)	2008485.6	285036.1	SI (2008485.6/285036.1 = 7.05 >= 1.0)
3-5	1855890.4	283404	SI (1855890.4/283404 = 6.55 >= 1.0)	2033259.4	284197.6	SI (2033259.4/284197.6 = 7.15 >= 1.0)
3-6	1847114	284241.6	SI (1847114/284241.6 = 6.50 >= 1.0)	2024536.6	284241.6	SI (2024536.6/284241.6 = 7.12 >= 1.0)
3-7	1856222.5	283542.1	SI (1856222.5/283542.1 = 6.55 >= 1.0)	2033597.2	284322.4	SI (2033597.2/284322.4 = 7.15 >= 1.0)
3-8	1847446	284379.7	SI (1847446/284379.7 = 6.50 >= 1.0)	2024887.7	284379.7	SI (2024887.7/284379.7 = 7.12 >= 1.0)
3-9	1837221.2	282483.8	SI (1837221.2/282483.8 = 6.50 >= 1.0)	2014264	283990.7	SI (2014264/283990.7 = 7.09 >= 1.0)
3-10	1828439	283321.4	SI (1828439/283321.4 = 6.45 >= 1.0)	2005328.5	283827.7	SI (2005328.5/283827.7 = 7.07 >= 1.0)
3-11	1837553.2	282621.8	SI (1837553.2/282621.8 = 6.50 >= 1.0)	2014601.9	284115.5	SI (2014601.9/284115.5 = 7.09 >= 1.0)
3-12	1828771.1	283459.4	SI (1828771.1/283459.4 = 6.45 >= 1.0)	2005666.3	283952.5	SI (2005666.3/283952.5 = 7.06 >= 1.0)
3-13	1853119.5	282214.6	SI (1853119.5/282214.6 = 6.57 >= 1.0)	2030440.1	283114	SI (2030440.1/283114 = 7.17 >= 1.0)
3-14	1844343.1	283052.2	SI (1844343.1/283052.2 = 6.52 >= 1.0)	2021611.4	283052.2	SI (2021611.4/283052.2 = 7.14 >= 1.0)
3-15	1853451.6	282352.7	SI (1853451.6/282352.7 = 6.56 >= 1.0)	2030777.9	283238.8	SI (2030777.9/283238.8 = 7.17 >= 1.0)
3-16	1844675.2	283190.3	SI (1844675.2/283190.3 = 6.51 >= 1.0)	2021962.5	283190.3	SI (2021962.5/283190.3 = 7.14 >= 1.0)
4-1	1855655.7	281883.7	SI (1855655.7/281883.7 = 6.58 >= 1.0)	2033020.5	284468.4	SI (2033020.5/284468.4 = 7.15 >= 1.0)
4-2	1860899.8	281794.9	SI (1860899.8/281794.9 = 6.60 >= 1.0)	2038356.2	284179.1	SI (2038356.2/284179.1 = 7.17 >= 1.0)
4-3	1854739.7	281491.2	SI (1854739.7/281491.2 = 6.59 >= 1.0)	2032088.5	284110.8	SI (2032088.5/284110.8 = 7.15 >= 1.0)
4-4	1859983.8	281402.4	SI (1859983.8/281402.4 = 6.61 >= 1.0)	2037424.2	283821.5	SI (2037424.2/283821.5 = 7.18 >= 1.0)
4-5	1823464	284954.9	SI (1823464/284954.9 = 6.40 >= 1.0)	2001350.5	284954.9	SI (2001350.5/284954.9 = 7.02 >= 1.0)
4-6	1828708.1	284866.1	SI (1828708.1/284866.1 = 6.42 >= 1.0)	2006886.6	284866.1	SI (2006886.6/284866.1 = 7.05 >= 1.0)
4-7	1822548	284562.4	SI (1822548/284562.4 = 6.40 >= 1.0)	2000383.5	284562.4	SI (2000383.5/284562.4 = 7.03 >= 1.0)
4-8	1827797.8	284473.6	SI (1827797.8/284473.6 = 6.43 >= 1.0)	2005925.5	284473.6	SI (2005925.5/284473.6 = 7.05 >= 1.0)
4-9	1856869.4	282389.9	SI (1856869.4/282389.9 = 6.58 >= 1.0)	2034255.4	284926	SI (2034255.4/284926 = 7.14 >= 1.0)
4-10	1862113.5	282301.1	SI (1862113.5/282301.1 = 6.60 >= 1.0)	2039591.1	284636.7	SI (2039591.1/284636.7 = 7.17 >= 1.0)
4-11	1855953.4	281997.4	SI (1855953.4/281997.4 = 6.58 >= 1.0)	2033323.4	284568.4	SI (2033323.4/284568.4 = 7.15 >= 1.0)
4-12	1861203.2	281908.6	SI (1861203.2/281908.6 = 6.60 >= 1.0)	2038665	284279.1	SI (2038665/284279.1 = 7.17 >= 1.0)
4-13	1824677.7	285461.1	SI (1824677.7/285461.1 = 6.39 >= 1.0)	2002633.9	285461.1	SI (2002633.9/285461.1 = 7.02 >= 1.0)
4-14	1829927.5	285372.2	SI (1829927.5/285372.2 = 6.41 >= 1.0)	2008175.9	285372.2	SI (2008175.9/285372.2 = 7.04 >= 1.0)
4-15	1823761.7	285068.6	SI (1823761.7/285068.6 = 6.40 >= 1.0)	2001667	285068.6	SI (2001667/285068.6 = 7.02 >= 1.0)
4-16	1829011.5	284979.7	SI (1829011.5/284979.7 = 6.42 >= 1.0)	2007209	284979.7	SI (2007209/284979.7 = 7.04 >= 1.0)
5-1	1839757.4	283697.4	SI (1839757.4/283697.4 = 6.48 >= 1.0)	2016844.5	285174.1	SI (2016844.5/285174.1 = 7.07 >= 1.0)
5-2	1830099.3	284618.7	SI (1830099.3/284618.7 = 6.43 >= 1.0)	2007017.7	284994.9	SI (2007017.7/284994.9 = 7.04 >= 1.0)
5-3	1840123.8	283849.2	SI (1840123.8/283849.2 = 6.48 >= 1.0)	2017217.3	285311.4	SI (2017217.3/285311.4 = 7.07 >= 1.0)
5-4	1830465.7	284770.5	SI (1830465.7/284770.5 = 6.43 >= 1.0)	2007390.5	285132.2	SI (2007390.5/285132.2 = 7.04 >= 1.0)
5-5	1857247.2	283401.3	SI (1857247.2/283401.3 = 6.55 >= 1.0)	2034639.9	284209.8	SI (2034639.9/284209.8 = 7.16 >= 1.0)
5-6	1847589.2	284322.6	SI (1847589.2/284322.6 = 6.50 >= 1.0)	2025105.1	284322.6	SI (2025105.1/284322.6 = 7.12 >= 1.0)
5-7	1857613.7	283553.1	SI (1857613.7/283553.1 = 6.55 >= 1.0)	2035012.7	284347.1	SI (2035012.7/284347.1 = 7.16 >= 1.0)
5-8	1847955.6	284474.5	SI (1847955.6/284474.5 = 6.50 >= 1.0)	2025492.5	284474.5	SI (2025492.5/284474.5 = 7.12 >= 1.0)
5-9	1836705.9	282389	SI (1836705.9/282389 = 6.50 >= 1.0)	2013739.8	283982.2	SI (2013739.8/283982.2 = 7.09 >= 1.0)
5-10	1827053.6	283310.3	SI (1827053.6/283310.3 = 6.45 >= 1.0)	2003918.8	283803	SI (2003918.8/283803 = 7.06 >= 1.0)
5-11	1837072.3	282540.8	SI (1837072.3/282540.8 = 6.50 >= 1.0)	2014112.6	284119.5	SI (2014112.6/284119.5 = 7.09 >= 1.0)
5-12	1827414.3	283462.2	SI (1827414.3/283462.2 = 6.45 >= 1.0)	2004285.8	283940.3	SI (2004285.8/283940.3 = 7.06 >= 1.0)
5-13	1854201.5	282092.9	SI (1854201.5/282092.9 = 6.57 >= 1.0)	2031541	283017.9	SI (2031541/283017.9 = 7.18 >= 1.0)
5-14	1844543.5	283014.3	SI (1844543.5/283014.3 = 6.52 >= 1.0)	2021889.8	283014.3	SI (2021889.8/283014.3 = 7.14 >= 1.0)
5-15	1854562.2	282244.8	SI (1854562.2/282244.8 = 6.57 >= 1.0)	2031908	283155.2	SI (2031908/283155.2 = 7.18 >= 1.0)
5-16	1844909.9	283166.1	SI (1844909.9/283166.1 = 6.52 >= 1.0)	2022277.1	283166.1	SI (2022277.1/283166.1 = 7.14 >= 1.0)
6-1	1852684.4	282228.5	SI (1852684.4/282228.5 = 6.56 >= 1.0)	2029997.4	284380.8	SI (2029997.4/284380.8 = 7.14 >= 1.0)
6-2	1856766.3	282159.5	SI (1856766.3/282159.5 = 6.58 >= 1.0)	2034150.6	284155.9	SI (2034150.6/284155.9 = 7.16 >= 1.0)
6-3	1851974.5	281923.4	SI (1851974.5/281923.4 = 6.57 >= 1.0)	2029275.1	284102.8	SI (2029275.1/284102.8 = 7.14 >= 1.0)
6-4	1856056.4	281854.4	SI (1856056.4/281854.4 = 6.59 >= 1.0)	2033428.3	283878	SI (2033428.3/283878 = 7.16 >= 1.0)
6-5	1827666.2	284615.6	SI (1827666.2/284615.6 = 6.42 >= 1.0)	2005241.3	284615.6	SI (2005241.3/284615.6 = 7.05 >= 1.0)
6-6	1831742.4	284546.6	SI (1831742.4/284546.6 = 6.44 >= 1.0)	2009544.5	284546.6	SI (2009544.5/284546.6 = 7.06 >= 1.0)
6-7	1826956.3	284310.5	SI (1826956.3/284310.5 = 6.43 >= 1.0)	2004491.9	284310.5	SI (2004491.9/284310.5 = 7.05 >= 1.0)
6-8	1831032.5	284241.5	SI (1831032.5/284241.5 = 6.44 >= 1.0)	2008795.1	284241.5	SI (2008795.1/284241.5 = 7.07 >= 1.0)
6-9	1853629	282621.9	SI (1853629/282621.9 = 6.56 >= 1.0)	2030958.5	284736.5	SI (2030958.5/284736.5 = 7.13 >= 1.0)
6-10	1857711	282552.9	SI (1857711/282552.9 = 6.57 >= 1.0)	2035111.7	284511.6	SI (2035111.7/284511.6 = 7.15 >= 1.0)
6-11	1852919.2	282316.9	SI (1852919.2/282316.9 = 6.56 >= 1.0)	2030236.2	284458.5	SI (2030236.2/284458.5 = 7.14 >= 1.0)
6-12	1857001.1	282247.8	SI (1857001.1/282247.8 = 6.58 >= 1.0)	2034389.4	284233.7	SI (2034389.4/284233.7 = 7.16 >= 1.0)
6-13	1828610.8	285009.1	SI (1828610.8/285009.1 = 6.42 >= 1.0)	2006240.2	285009.1	SI (2006240.2/285009.1 = 7.04 >= 1.0)
6-14	1832687	284940	SI (1832687/284940 = 6.43 >= 1.0)	2010543.4	284940	SI (2010543.4/284940 = 7.06 >= 1.0)
6-15	1827900.9	284704	SI (1827900.9/284704 = 6.42 >= 1.0)	2005490.7	284704	SI (2005490.7/284704 = 7.04 >= 1.0)
6-16	1831977.1	284635	SI (1831977.1/284635 = 6.44 >= 1.0)	2009793.9	284635	SI (2009793.9/284635 = 7.06 >= 1.0)
7-1	1840329.9	283638.2	SI (1840329.9/283638.2 = 6.49 >= 1.0)	2017427	284929.3	SI (2017427/284929.3 = 7.08 >= 1.0)
7-2	1832824.4	284354.3	SI (1832824.4/284354.3 = 6.45 >= 1.0)	2009790.4	284790	SI (2009790.4/284790 = 7.06 >= 1.0)
7-3	1840616.1	283756.2	SI (1840616.1/283756.2 = 6.49 >= 1.0)	2017718.3	285036	SI (2017718.3/285036 = 7.08 >= 1.0)
7-4	1833104.9	284472.4	SI (1833104.9/284472.4 = 6.44 >= 1.0)	2010075.9	284896.7	SI (2010075.9/284896.7 = 7.06 >= 1.0)
7-5	1853926.7	283408.1	SI (1853926.7/283408.1 = 6.54 >= 1.0)	2031261.4	284179.8	SI (2031261.4/284179.8 = 7.15 >= 1.0)
7-6	1846421.3	284124.2	SI (1846421.3/284124.2 = 6.50 >= 1.0)	2023708.5	284124.2	SI (2023708.5/284124.2 = 7.12 >= 1.0)
7-7	1854207.3	283526.1	SI (1854207.3/283526.1 = 6.54 >= 1.0)	2031546.8	284286.5	SI (2031546.8/284286.5 = 7.15 >= 1.0)

7-8	1846701.8	284242.2	SI (1846701.8/284242.2 = 6.50 >= 1.0)	2024005.2	284242.2	SI (2024005.2/284242.2 = 7.12 >= 1.0)
7-9	1837959.7	282621.2	SI (1837959.7/282621.2 = 6.50 >= 1.0)	2015015.5	284002.9	SI (2015015.5/284002.9 = 7.10 >= 1.0)
7-10	1830454.2	283337.4	SI (1830454.2/283337.4 = 6.46 >= 1.0)	2007378.9	283863.6	SI (2007378.9/283863.6 = 7.07 >= 1.0)
7-11	1838246	282739.3	SI (1838246/282739.3 = 6.50 >= 1.0)	2015306.7	284109.6	SI (2015306.7/284109.6 = 7.09 >= 1.0)
7-12	1830740.5	283455.4	SI (1830740.5/283455.4 = 6.46 >= 1.0)	2007670.1	283970.3	SI (2007670.1/283970.3 = 7.07 >= 1.0)
7-13	1851556.6	282391.1	SI (1851556.6/282391.1 = 6.56 >= 1.0)	2028849.8	283253.4	SI (2028849.8/283253.4 = 7.16 >= 1.0)
7-14	1844051.1	283107.2	SI (1844051.1/283107.2 = 6.51 >= 1.0)	2021213.3	283114.1	SI (2021213.3/283114.1 = 7.14 >= 1.0)
7-15	1851842.8	282509.1	SI (1851842.8/282509.1 = 6.55 >= 1.0)	2029141.1	283360.1	SI (2029141.1/283360.1 = 7.16 >= 1.0)
7-16	1844331.7	283225.3	SI (1844331.7/283225.3 = 6.51 >= 1.0)	2021503.2	283225.3	SI (2021503.2/283225.3 = 7.14 >= 1.0)

Segue la tabella riassuntiva di tutte le verifiche di *capacità portante*, i dettagli sono riportati nei paragrafi successivi.

Caso	Cond. drenate			Cond. non drenate		
	E_d [daN]	R_d [daN]	Verifica	E_d [daN]	R_d [daN]	Verifica
1-1	536921.7	37558424.8	SI (37558424.8/536921.7 = 69.95 >= 1.0)	Verifica non richiesta.		
2-1	348804.4	29933158.8	SI (29933158.8/348804.4 = 85.82 >= 1.0)	Verifica non richiesta.		
2-2	349637.4	30640649	SI (30640649/349637.4 = 87.64 >= 1.0)	Verifica non richiesta.		
2-3	348659.4	29932724.2	SI (29932724.2/348659.4 = 85.85 >= 1.0)	Verifica non richiesta.		
2-4	349492.4	30640231	SI (30640231/349492.4 = 87.67 >= 1.0)	Verifica non richiesta.		
2-5	343692.4	30538348.7	SI (30538348.7/343692.4 = 88.85 >= 1.0)	Verifica non richiesta.		
2-6	344526.4	31131407.1	SI (31131407.1/344526.4 = 90.36 >= 1.0)	Verifica non richiesta.		
2-7	343547.4	30560397.6	SI (30560397.6/343547.4 = 88.96 >= 1.0)	Verifica non richiesta.		
2-8	344380.4	31153838.1	SI (31153838.1/344380.4 = 90.46 >= 1.0)	Verifica non richiesta.		
2-9	348997.4	29932071.9	SI (29932071.9/348997.4 = 85.77 >= 1.0)	Verifica non richiesta.		
2-10	349830.4	30639528.3	SI (30639528.3/349830.4 = 87.58 >= 1.0)	Verifica non richiesta.		
2-11	348852.4	29931627	SI (29931627/348852.4 = 85.80 >= 1.0)	Verifica non richiesta.		
2-12	349685.4	30639100.4	SI (30639100.4/349685.4 = 87.62 >= 1.0)	Verifica non richiesta.		
2-13	343885.4	30505994.6	SI (30505994.6/343885.4 = 88.71 >= 1.0)	Verifica non richiesta.		
2-14	344719.4	31098501.6	SI (31098501.6/344719.4 = 90.21 >= 1.0)	Verifica non richiesta.		
2-15	343740.4	30528017.3	SI (30528017.3/343740.4 = 88.81 >= 1.0)	Verifica non richiesta.		
2-16	344574.4	31120917.9	SI	Verifica non richiesta.		

			{31120917.9/344574 .4 = 90.32 >= 1.0)	
3-1	346280.4	29542370.3	SI (29542370.3/346280 .4 = 85.31 >= 1.0)	Verifica non richiesta.
3-2	344746.4	29910456.6	SI (29910456.6/344746 .4 = 86.76 >= 1.0)	Verifica non richiesta.
3-3	346338.4	29542027.3	SI (29542027.3/346338 .4 = 85.30 >= 1.0)	Verifica non richiesta.
3-4	344804.4	29910085	SI (29910085/344804.4 = 86.75 >= 1.0)	Verifica non richiesta.
3-5	349057.4	31763068.7	SI (31763068.7/349057 .4 = 91.00 >= 1.0)	Verifica non richiesta.
3-6	347524.4	31944146.5	SI (31944146.5/347524 .4 = 91.92 >= 1.0)	Verifica non richiesta.
3-7	349115.4	31769674.6	SI (31769674.6/349115 .4 = 91.00 >= 1.0)	Verifica non richiesta.
3-8	347582.4	31941141.8	SI (31941141.8/347582 .4 = 91.90 >= 1.0)	Verifica non richiesta.
3-9	345796.4	29541040.8	SI (29541040.8/345796 .4 = 85.43 >= 1.0)	Verifica non richiesta.
3-10	344262.4	29909306.9	SI (29909306.9/344262 .4 = 86.88 >= 1.0)	Verifica non richiesta.
3-11	345854.4	29540688.2	SI (29540688.2/345854 .4 = 85.41 >= 1.0)	Verifica non richiesta.
3-12	344320.4	29908924.9	SI (29908924.9/344320 .4 = 86.86 >= 1.0)	Verifica non richiesta.
3-13	348573.4	31713791.7	SI (31713791.7/348573 .4 = 90.98 >= 1.0)	Verifica non richiesta.
3-14	347040.4	31971729.3	SI (31971729.3/347040 .4 = 92.13 >= 1.0)	Verifica non richiesta.
3-15	348631.4	31720399.7	SI (31720399.7/348631 .4 = 90.99 >= 1.0)	Verifica non richiesta.
3-16	347098.4	31968728.9	SI (31968728.9/347098 .4 = 92.10 >= 1.0)	Verifica non richiesta.
4-1	349016.4	29836147.3	SI (29836147.3/349016 .4 = 85.49 >= 1.0)	Verifica non richiesta.
4-2	349932.4	30612836	SI (30612836/349932.4 = 87.48 >= 1.0)	Verifica non richiesta.
4-3	348856.4	29835652.5	SI (29835652.5/348856 .4 = 85.52 >= 1.0)	Verifica non richiesta.
4-4	349772.4	30612362.1	SI (30612362.1/349772 .4 = 87.52 >= 1.0)	Verifica non richiesta.
4-5	343393.4	30455249.2	SI	Verifica non richiesta.

			(30455249.2/343393 .4 = 88.69 >= 1.0)	
4-6	344309.4	31106796.8	SI (31106796.8/344309 .4 = 90.35 >= 1.0)	Verifica non richiesta.
4-7	343233.4	30479464.3	SI (30479464.3/343233 .4 = 88.80 >= 1.0)	Verifica non richiesta.
4-8	344150.4	31131499.7	SI (31131499.7/344150 .4 = 90.46 >= 1.0)	Verifica non richiesta.
4-9	349228.4	29834967.7	SI (29834967.7/349228 .4 = 85.43 >= 1.0)	Verifica non richiesta.
4-10	350144.4	30611616.5	SI (30611616.5/350144 .4 = 87.43 >= 1.0)	Verifica non richiesta.
4-11	349068.4	29834461.3	SI (29834461.3/349068 .4 = 85.47 >= 1.0)	Verifica non richiesta.
4-12	349985.4	30611142.1	SI (30611142.1/349985 .4 = 87.46 >= 1.0)	Verifica non richiesta.
4-13	343605.4	30419707.7	SI (30419707.7/343605 .4 = 88.53 >= 1.0)	Verifica non richiesta.
4-14	344522.4	31070600	SI (31070600/344522.4 = 90.18 >= 1.0)	Verifica non richiesta.
4-15	343445.4	30443891.1	SI (30443891.1/343445 .4 = 88.64 >= 1.0)	Verifica non richiesta.
4-16	344362.4	31095259.6	SI (31095259.6/344362 .4 = 90.30 >= 1.0)	Verifica non richiesta.
5-1	346239.4	29406837.6	SI (29406837.6/346239 .4 = 84.93 >= 1.0)	Verifica non richiesta.
5-2	344552.4	29810173.1	SI (29810173.1/344552 .4 = 86.52 >= 1.0)	Verifica non richiesta.
5-3	346303.4	29406467.4	SI (29406467.4/346303 .4 = 84.92 >= 1.0)	Verifica non richiesta.
5-4	344616.4	29809766.7	SI (29809766.7/344616 .4 = 86.50 >= 1.0)	Verifica non richiesta.
5-5	349294.4	31769368.5	SI (31769368.5/349294 .4 = 90.95 >= 1.0)	Verifica non richiesta.
5-6	347607.4	31892892.5	SI (31892892.5/347607 .4 = 91.75 >= 1.0)	Verifica non richiesta.
5-7	349358.4	31778271.3	SI (31778271.3/349358 .4 = 90.96 >= 1.0)	Verifica non richiesta.
5-8	347671.4	31891235.8	SI (31891235.8/347671 .4 = 91.73 >= 1.0)	Verifica non richiesta.
5-9	345706.4	29405346.8	SI (29405346.8/345706 .4 = 85.06 >= 1.0)	Verifica non richiesta.
5-10	344020.4	29808912.3	SI	Verifica non richiesta.

			(29808912.3/344020 .4 = 86.65 >= 1.0)	
5-11	345770.4	29404965	SI (29404965/345770.4 = 85.04 >= 1.0)	Verifica non richiesta.
5-12	344083.4	29808481.9	SI (29808481.9/344083 .4 = 86.63 >= 1.0)	Verifica non richiesta.
5-13	348762.4	31704687	SI (31704687/348762.4 = 90.91 >= 1.0)	Verifica non richiesta.
5-14	347075.4	31912642.7	SI (31912642.7/347075 .4 = 91.95 >= 1.0)	Verifica non richiesta.
5-15	348825.4	31713578.1	SI (31713578.1/348825 .4 = 90.92 >= 1.0)	Verifica non richiesta.
5-16	347139.4	31910995.6	SI (31910995.6/347139 .4 = 91.93 >= 1.0)	Verifica non richiesta.
6-1	348497.4	23539867.6	SI (23539867.6/348497 .4 = 67.55 >= 1.0)	Verifica non richiesta.
6-2	349210.4	24014655.5	SI (24014655.5/349210 .4 = 68.77 >= 1.0)	Verifica non richiesta.
6-3	348373.4	23539585.9	SI (23539585.9/348373 .4 = 67.57 >= 1.0)	Verifica non richiesta.
6-4	349086.4	24014383.5	SI (24014383.5/349086 .4 = 68.79 >= 1.0)	Verifica non richiesta.
6-5	344127.4	23997496.2	SI (23997496.2/344127 .4 = 69.73 >= 1.0)	Verifica non richiesta.
6-6	344839.4	24395036.9	SI (24395036.9/344839 .4 = 70.74 >= 1.0)	Verifica non richiesta.
6-7	344003.4	24012279.4	SI (24012279.4/344003 .4 = 69.80 >= 1.0)	Verifica non richiesta.
6-8	344715.4	24410045.3	SI (24410045.3/344715 .4 = 70.81 >= 1.0)	Verifica non richiesta.
6-9	348662.4	23539121.3	SI (23539121.3/348662 .4 = 67.51 >= 1.0)	Verifica non richiesta.
6-10	349375.4	24013889.8	SI (24013889.8/349375 .4 = 68.73 >= 1.0)	Verifica non richiesta.
6-11	348538.4	23538834.2	SI (23538834.2/348538 .4 = 67.54 >= 1.0)	Verifica non richiesta.
6-12	349251.4	24013612.5	SI (24013612.5/349251 .4 = 68.76 >= 1.0)	Verifica non richiesta.
6-13	344292.4	23975800.8	SI (23975800.8/344292 .4 = 69.64 >= 1.0)	Verifica non richiesta.
6-14	345004.4	24373026.2	SI (24373026.2/345004 .4 = 70.65 >= 1.0)	Verifica non richiesta.
6-15	344168.4	23990568.7	SI	Verifica non richiesta.

			(23990568.7/344168.4 = 69.71 >= 1.0)	
6-16	344880.4	24388019.5	SI (24388019.5/344880.4 = 70.71 >= 1.0)	Verifica non richiesta.
7-1	346339.4	23277867.2	SI (23277867.2/346339.4 = 67.21 >= 1.0)	Verifica non richiesta.
7-2	345028.4	23525552.9	SI (23525552.9/345028.4 = 68.18 >= 1.0)	Verifica non richiesta.
7-3	346389.4	23277638	SI (23277638/346389.4 = 67.20 >= 1.0)	Verifica non richiesta.
7-4	345077.4	23525296.7	SI (23525296.7/345077.4 = 68.17 >= 1.0)	Verifica non richiesta.
7-5	348714.4	24825100	SI (24825100/348714.4 = 71.19 >= 1.0)	Verifica non richiesta.
7-6	347403.4	24999065.6	SI (24999065.6/347403.4 = 71.96 >= 1.0)	Verifica non richiesta.
7-7	348763.4	24829505.4	SI (24829505.4/348763.4 = 71.19 >= 1.0)	Verifica non richiesta.
7-8	347452.4	24997051.6	SI (24997051.6/347452.4 = 71.94 >= 1.0)	Verifica non richiesta.
7-9	345925.4	23276995.9	SI (23276995.9/345925.4 = 67.29 >= 1.0)	Verifica non richiesta.
7-10	344614.4	23524784.5	SI (23524784.5/344614.4 = 68.26 >= 1.0)	Verifica non richiesta.
7-11	345975.4	23276760.9	SI (23276760.9/345975.4 = 67.28 >= 1.0)	Verifica non richiesta.
7-12	344664.4	23524533.1	SI (23524533.1/344664.4 = 68.25 >= 1.0)	Verifica non richiesta.
7-13	348300.4	24792210.3	SI (24792210.3/348300.4 = 71.18 >= 1.0)	Verifica non richiesta.
7-14	346989.4	25013627	SI (25013627/346989.4 = 72.09 >= 1.0)	Verifica non richiesta.
7-15	348350.4	24796625.8	SI (24796625.8/348350.4 = 71.18 >= 1.0)	Verifica non richiesta.
7-16	347038.4	25015506.8	SI (25015506.8/347038.4 = 72.08 >= 1.0)	Verifica non richiesta.

Segue la tabella riassuntiva di tutte le verifiche di **resistenza a scorrimento**, i dettagli sono riportati nei paragrafi successivi.

Caso	Cond. drenate			Cond. non drenate		
	E_d [daN]	R_d [daN]	Verifica	E_d [daN]	R_d [daN]	Verifica
1-1	26776.3	204763.7	SI (204763.7/26776.3 = 7.65 >= 1.0)			Verifica non richiesta.
2-1	35854.2	133443.1	SI (133443.1/35854.2 = 3.72 >= 1.0)			Verifica non richiesta.
2-2	26934.8	133657.1	SI (133657.1/26934.8 = 4.96 >= 1.0)			Verifica non richiesta.
2-3	36040.3	133387.2	SI (133387.2/36040.3 = 3.70 >= 1.0)			Verifica non richiesta.

2-4	27176.7	133597.3	SI (133597.3/27176.7 = 4.92 >= 1.0)	Verifica non richiesta.
2-5	27039.2	131430	SI (131430/27039.2 = 4.86 >= 1.0)	Verifica non richiesta.
2-6	17864.1	131839.3	SI (131839.3/17864.1 = 7.38 >= 1.0)	Verifica non richiesta.
2-7	26896.1	131368.6	SI (131368.6/26896.1 = 4.88 >= 1.0)	Verifica non richiesta.
2-8	17638.5	131784.6	SI (131784.6/17638.5 = 7.47 >= 1.0)	Verifica non richiesta.
2-9	35608.7	133517.5	SI (133517.5/35608.7 = 3.75 >= 1.0)	Verifica non richiesta.
2-10	26609	133737.2	SI (133737.2/26609 = 5.03 >= 1.0)	Verifica non richiesta.
2-11	35792	133461.7	SI (133461.7/35792 = 3.73 >= 1.0)	Verifica non richiesta.
2-12	26848.5	133677.5	SI (133677.5/26848.5 = 4.98 >= 1.0)	Verifica non richiesta.
2-13	27255.3	131511.5	SI (131511.5/27255.3 = 4.83 >= 1.0)	Verifica non richiesta.
2-14	18192.5	131911.1	SI (131911.1/18192.5 = 7.25 >= 1.0)	Verifica non richiesta.
2-15	27108.1	131450.5	SI (131450.5/27108.1 = 4.85 >= 1.0)	Verifica non richiesta.
2-16	17963	131857.2	SI (131857.2/17963 = 7.34 >= 1.0)	Verifica non richiesta.
3-1	41930.3	132398.7	SI (132398.7/41930.3 = 3.16 >= 1.0)	Verifica non richiesta.
3-2	39376	131611.4	SI (131611.4/39376 = 3.34 >= 1.0)	Verifica non richiesta.
3-3	41904.9	132418.5	SI (132418.5/41904.9 = 3.16 >= 1.0)	Verifica non richiesta.
3-4	39382.4	131629.5	SI (131629.5/39382.4 = 3.34 >= 1.0)	Verifica non richiesta.
3-5	8081.6	133012.2	SI (133012.2/8081.6 = 16.46 >= 1.0)	Verifica non richiesta.
3-6	2383.4	132802.7	SI (132802.7/2383.4 = 55.72 >= 1.0)	Verifica non richiesta.
3-7	7955.5	133041.9	SI (133041.9/7955.5 = 16.72 >= 1.0)	Verifica non richiesta.
3-8	2508.7	132808.3	SI (132808.3/2508.7 = 52.94 >= 1.0)	Verifica non richiesta.
3-9	42177.1	132231.7	SI (132231.7/42177.1 = 3.14 >= 1.0)	Verifica non richiesta.
3-10	39371.7	131458.3	SI (131458.3/39371.7 = 3.34 >= 1.0)	Verifica non richiesta.
3-11	42148.5	132251.7	SI (132251.7/42148.5 = 3.14 >= 1.0)	Verifica non richiesta.
3-12	39374.5	131476.6	SI (131476.6/39374.5 = 3.34 >= 1.0)	Verifica non richiesta.
3-13	9102.9	132778.9	SI (132778.9/9102.9 = 14.59 >= 1.0)	Verifica non richiesta.
3-14	1461.2	132773.1	SI (132773.1/1461.2 = 90.87 >= 1.0)	Verifica non richiesta.
3-15	8975.2	132807.2	SI (132807.2/8975.2 = 14.80 >= 1.0)	Verifica non richiesta.
3-16	1569.2	132779.9	SI (132779.9/1569.2 = 84.61 >= 1.0)	Verifica non richiesta.
4-1	37514.3	133518.2	SI (133518.2/37514.3 = 3.56 >= 1.0)	Verifica non richiesta.
4-2	27984.7	133734.8	SI (133734.8/27984.7 = 4.78 >= 1.0)	Verifica non richiesta.
4-3	37725.7	133456.2	SI (133456.2/37725.7 = 3.54 >= 1.0)	Verifica non richiesta.
4-4	28261.2	133668.7	SI (133668.7/28261.2 = 4.73 >= 1.0)	Verifica non richiesta.
4-5	28087	131344.3	SI (131344.3/28087 = 4.68 >= 1.0)	Verifica non richiesta.
4-6	18543	131744.5	SI (131744.5/18543 = 7.10 >= 1.0)	Verifica non richiesta.
4-7	27915.2	131278.1	SI (131278.1/27915.2 = 4.70 >= 1.0)	Verifica non richiesta.
4-8	18272.1	131687.4	SI (131687.4/18272.1 = 7.21 >= 1.0)	Verifica non richiesta.
4-9	37234.6	133600.3	SI (133600.3/37234.6 = 3.59 >= 1.0)	Verifica non richiesta.
4-10	27611	133823.2	SI (133823.2/27611 = 4.85 >= 1.0)	Verifica non richiesta.
4-11	37443	133538.5	SI (133538.5/37443 = 3.57 >= 1.0)	Verifica non richiesta.
4-12	27885	133757.4	SI (133757.4/27885 = 4.80 >= 1.0)	Verifica non richiesta.
4-13	28344.5	131431.8	SI (131431.8/28344.5 = 4.64 >= 1.0)	Verifica non richiesta.
4-14	18934	131820.7	SI (131820.7/18934 = 6.96 >= 1.0)	Verifica non richiesta.
4-15	28168.1	131366	SI (131366/28168.1 = 4.66 >= 1.0)	Verifica non richiesta.
4-16	18659.6	131763.5	SI (131763.5/18659.6 = 7.06 >= 1.0)	Verifica non richiesta.
5-1	43995.3	132384.3	SI (132384.3/43995.3 = 3.01 >= 1.0)	Verifica non richiesta.
5-2	41231.2	131526.7	SI (131526.7/41231.2 = 3.19 >= 1.0)	Verifica non richiesta.
5-3	43967.2	132406.3	SI (132406.3/43967.2 = 3.01 >= 1.0)	Verifica non richiesta.
5-4	41239.8	131546.8	SI (131546.8/41239.8 = 3.19 >= 1.0)	Verifica non richiesta.
5-5	8093	132878.1	SI (132878.1/8093 = 16.42 >= 1.0)	Verifica non richiesta.
5-6	3009.9	132540	SI (132540/3009.9 = 44.04 >= 1.0)	Verifica non richiesta.
5-7	7946.6	132899.1	SI (132899.1/7946.6 = 16.72 >= 1.0)	Verifica non richiesta.
5-8	3146.4	132540.3	SI (132540.3/3146.4 = 42.12 >= 1.0)	Verifica non richiesta.
5-9	44269.3	132199.5	SI (132199.5/44269.3 = 2.99 >= 1.0)	Verifica non richiesta.
5-10	41214.9	131357.5	SI (131357.5/41214.9 = 3.19 >= 1.0)	Verifica non richiesta.
5-11	44237.5	132221.7	SI (132221.7/44237.5 = 2.99 >= 1.0)	Verifica non richiesta.
5-12	41219.4	131377.4	SI (131377.4/41219.4 = 3.19 >= 1.0)	Verifica non richiesta.
5-13	9262.9	132693.4	SI (132693.4/9262.9 = 14.33 >= 1.0)	Verifica non richiesta.
5-14	1959.1	132581.9	SI (132581.9/1959.1 = 67.68 >= 1.0)	Verifica non richiesta.
5-15	9116.3	132714.7	SI (132714.7/9116.3 = 14.56 >= 1.0)	Verifica non richiesta.
5-16	2081.6	132566.8	SI (132566.8/2081.6 = 63.69 >= 1.0)	Verifica non richiesta.
6-1	33487.1	133332.8	SI (133332.8/33487.1 = 3.98 >= 1.0)	Verifica non richiesta.
6-2	25528.7	133540.3	SI (133540.3/25528.7 = 5.23 >= 1.0)	Verifica non richiesta.
6-3	33637.4	133285.4	SI (133285.4/33637.4 = 3.96 >= 1.0)	Verifica non richiesta.
6-4	25721.5	133489.6	SI (133489.6/25721.5 = 5.19 >= 1.0)	Verifica non richiesta.
6-5	25633	131542.2	SI (131542.2/25633 = 5.13 >= 1.0)	Verifica non richiesta.
6-6	17193.3	131939.2	SI (131939.2/17193.3 = 7.67 >= 1.0)	Verifica non richiesta.
6-7	25528.8	131487.8	SI (131487.8/25528.8 = 5.15 >= 1.0)	Verifica non richiesta.
6-8	17031.4	131888.8	SI (131888.8/17031.4 = 7.74 >= 1.0)	Verifica non richiesta.

6-9	33289.4	133395.7	SI (133395.7/33289.4 = 4.01 >= 1.0)	Verifica non richiesta.
6-10	25270.4	133607.9	SI (133607.9/25270.4 = 5.29 >= 1.0)	Verifica non richiesta.
6-11	33437.5	133348.5	SI (133348.5/33437.5 = 3.99 >= 1.0)	Verifica non richiesta.
6-12	25461	133557.4	SI (133557.4/25461 = 5.25 >= 1.0)	Verifica non richiesta.
6-13	25792.6	131614.6	SI (131614.6/25792.6 = 5.10 >= 1.0)	Verifica non richiesta.
6-14	17432.5	132005.8	SI (132005.8/17432.5 = 7.57 >= 1.0)	Verifica non richiesta.
6-15	25685	131560.5	SI (131560.5/25685 = 5.12 >= 1.0)	Verifica non richiesta.
6-16	17266.8	131955.9	SI (131955.9/17266.8 = 7.64 >= 1.0)	Verifica non richiesta.
7-1	38936.2	132419.2	SI (132419.2/38936.2 = 3.40 >= 1.0)	Verifica non richiesta.
7-2	36694.6	131736.2	SI (131736.2/36694.6 = 3.59 >= 1.0)	Verifica non richiesta.
7-3	38914.8	132436.1	SI (132436.1/38914.8 = 3.40 >= 1.0)	Verifica non richiesta.
7-4	36698.1	131751.3	SI (131751.3/36698.1 = 3.59 >= 1.0)	Verifica non richiesta.
7-5	8811.3	133238	SI (133238/8811.3 = 15.12 >= 1.0)	Verifica non richiesta.
7-6	4041.2	132719	SI (132719/4041.2 = 32.84 >= 1.0)	Verifica non richiesta.
7-7	8720.6	133263.2	SI (133263.2/8720.6 = 15.28 >= 1.0)	Verifica non richiesta.
7-8	4082.6	132760.6	SI (132760.6/4082.6 = 32.52 >= 1.0)	Verifica non richiesta.
7-9	39144	132277.5	SI (132277.5/39144 = 3.38 >= 1.0)	Verifica non richiesta.
7-10	36705.5	131606.4	SI (131606.4/36705.5 = 3.59 >= 1.0)	Verifica non richiesta.
7-11	39120.1	132294.6	SI (132294.6/39120.1 = 3.38 >= 1.0)	Verifica non richiesta.
7-12	36706.3	131622	SI (131622/36706.3 = 3.59 >= 1.0)	Verifica non richiesta.
7-13	9566.5	133032	SI (133032/9566.5 = 13.91 >= 1.0)	Verifica non richiesta.
7-14	3845.6	132357.2	SI (132357.2/3845.6 = 34.42 >= 1.0)	Verifica non richiesta.
7-15	9472	133057.2	SI (133057.2/9472 = 14.05 >= 1.0)	Verifica non richiesta.
7-16	3862.2	132367.9	SI (132367.9/3862.2 = 34.27 >= 1.0)	Verifica non richiesta.

Descrizione del metodo di calcolo.

Il calcolo della capacità portante viene eseguito secondo la formula trinomia, considerando separatamente i contributi dovuti alla coesione, al sovraccarico laterale ed al peso del terreno.

Per le verifiche in condizioni drenate, si utilizzano i coefficienti di capacità portante N_q (Prandtl, 1921), N_c (Reissner, 1924), N_s (Vesic, 1973), i coefficienti correttivi dovuti alla forma della fondazione (s , Meyerhof, 1951 e 1963), all'approfondimento (d , Brinch Hansen, 1970), all'inclinazione del carico (i , Vesic, 1973), all'inclinazione del piano di posa (b , Vesic, 1973), all'inclinazione del piano campagna (g , Vesic, 1973), e all'azione sismica (h - Maugeri e Novità, 2004).

Nel caso di terreno eterogeneo (litologie differenti, presenza di falda), i parametri meccanici utilizzati nel calcolo sono ottenuti come media ponderata dei valori rinvenuti all'interno del cuneo di rottura.

La resistenza a scorrimento, viene ottenuta sommando i contributi del carico normale al piano di posa moltiplicato per il coefficiente d'attrito, e dell'area del piano di posa (eventualmente ridotta per carico verticale eccentrico) per l'adesione fondazione-terreno. In condizioni drenate, l'attrito fondazione terreno è assunto pari all'angolo di resistenza al taglio del terreno moltiplicato per il coefficiente 0.75, l'adesione fondazione terreno è trascurata (assunta pari a 0). Si considera il contributo della pressione del terreno a lato della fondazione. La resistenza laterale del terreno è assunta pari alla resistenza passiva disponibile moltiplicata per 0.50.

Descrizione della fondazione.

La fondazione ha piano di posa rettangolare, con lato X di 1165 [cm], lato Y di 890 [cm], e centro alla quota $z = -10$ [cm]. Il piano di posa è orizzontale.

Descrizione del terreno.

La stratigrafia è eterogenea, presenta 2 strati

n.	nome	z_1 [cm]	z_2 [cm]	γ_d [daN/m ³]	γ_t [daN/m ³]	c' [daN/cm ²]	ϕ' [°]
1	Coltri sciolte	0	-200	1800	1900	0.1	30
2	Roccia alterata	-200	-1000	2500	2600	1.5	35

La stratigrafia non contiene una falda

Verifiche in condizioni drenate.

Sollecitazioni al piano di posa.

Si riportano di seguito le componenti della sollecitazione applicata e la distanza del punto di applicazione dal centro del piano di posa della fondazione.

Rispetto al sistema di rif. globale:

Caso	F_x [daN]	F_y [daN]	F_z [daN]	M_x [daN*m]	M_y [daN*m]	dx [cm]	dy [cm]	dz [cm]
1-1	-8259.23	-25470.66	-536921.72	25226.71	-403493.06	0	0	10
2-1	-24081.59	-26563.21	-348804.4	-11688.74	-282024.45	0	0	10
2-2	-22259.18	-15166.24	-349637.4	-5778.02	-281943.7	0	0	10
2-3	-24399.18	-26525.1	-348659.4	-11532.35	-281667.62	0	0	10
2-4	-22576.77	-15128.13	-349492.4	-5621.63	-281586.88	0	0	10
2-5	9268.89	-25400.91	-343692.4	-9375.93	-284816.42	0	0	10
2-6	11091.3	-14003.94	-344526.4	-3465.21	-284735.67	0	0	10
2-7	8951.29	-25362.81	-343547.4	-9219.54	-284459.59	0	0	10
2-8	10773.7	-13965.83	-344380.4	-3308.83	-284378.85	0	0	10
2-9	-23640.26	-26629.24	-348997.4	-11941.69	-282484.62	0	0	10
2-10	-21817.85	-15232.27	-349830.4	-6030.98	-282403.87	0	0	10
2-11	-23957.86	-26591.13	-348852.4	-11785.31	-282127.79	0	0	10
2-12	-22135.45	-15194.16	-349685.4	-5874.59	-282047.04	0	0	10
2-13	9710.22	-25466.95	-343885.4	-9628.88	-285276.59	0	0	10
2-14	11532.63	-14069.98	-344719.4	-3718.17	-285195.84	0	0	10
2-15	9392.62	-25428.84	-343740.4	-9472.5	-284919.76	0	0	10
2-16	11215.03	-14031.87	-344574.4	-3561.78	-284839.01	0	0	10
3-1	-14010.07	-39520.44	-346280.4	-18046.08	-283673.2	0	0	10
3-2	-4004.93	-39171.75	-344746.4	-17352.24	-284510.79	0	0	10
3-3	-13877.68	-39540.25	-346338.4	-18121.96	-283811.25	0	0	10
3-4	-3872.53	-39191.56	-344804.4	-17428.12	-284648.84	0	0	10
3-5	-7935.37	-1530.54	-349057.4	1656.31	-283404.04	0	0	10
3-6	2069.77	-1181.85	-347524.4	2350.15	-284241.64	0	0	10
3-7	-7802.97	-1550.35	-349115.4	1580.42	-283542.09	0	0	10
3-8	2202.17	-1201.66	-347582.4	2274.26	-284379.69	0	0	10
3-9	-15068.73	-39393.41	-345796.4	-17524.78	-282483.78	0	0	10
3-10	-5063.58	-39044.73	-344262.4	-16830.94	-283321.37	0	0	10
3-11	-14936.33	-39413.22	-345854.4	-17600.67	-282621.83	0	0	10
3-12	-4931.19	-39064.54	-344320.4	-16906.83	-283459.42	0	0	10
3-13	-8994.03	-1403.51	-348573.4	2177.6	-282214.62	0	0	10
3-14	1011.12	-1054.82	-347040.4	2871.45	-283052.21	0	0	10
3-15	-8861.63	-1423.32	-348631.4	2101.72	-282352.67	0	0	10
3-16	1143.52	-1074.63	-347098.4	2795.56	-283190.26	0	0	10
4-1	-25846.42	-27189.78	-349016.4	-12095.09	-281883.72	0	0	10
4-2	-23841.77	-14653.11	-349932.4	-5593.3	-281794.9	0	0	10
4-3	-26195.78	-27147.86	-348856.4	-11923.06	-281491.21	0	0	10
4-4	-24191.12	-14611.19	-349772.4	-5421.27	-281402.39	0	0	10
4-5	10839.11	-25911.25	-343393.4	-9551	-284954.89	0	0	10
4-6	12843.76	-13374.58	-344309.4	-3049.21	-284866.07	0	0	10
4-7	10489.75	-25869.33	-343233.4	-9378.97	-284562.38	0	0	10
4-8	12494.4	-13332.66	-344150.4	-2877.18	-284473.56	0	0	10
4-9	-25360.96	-27262.41	-349228.4	-12373.34	-282389.9	0	0	10
4-10	-23356.31	-14725.74	-350144.4	-5871.55	-282301.08	0	0	10
4-11	-25710.32	-27220.49	-349068.4	-12201.31	-281997.4	0	0	10
4-12	-23705.66	-14683.83	-349985.4	-5699.52	-281908.57	0	0	10
4-13	11324.57	-25983.89	-343605.4	-9829.25	-285461.07	0	0	10
4-14	13329.22	-13447.22	-344522.4	-3327.46	-285372.25	0	0	10
4-15	10975.21	-25941.97	-343445.4	-9657.22	-285068.56	0	0	10
4-16	12979.86	-13405.3	-344362.4	-3155.43	-284979.74	0	0	10

5-1	-14767.75	-41442.73	-346239.4	-19088.16	-283697.35	0	0	10
5-2	-3762.09	-41059.17	-344552.4	-18324.93	-284618.7	0	0	10
5-3	-14622.11	-41464.52	-346303.4	-19171.63	-283849.2	0	0	10
5-4	-3616.46	-41080.97	-344616.4	-18408.41	-284770.55	0	0	10
5-5	-8085.58	346.16	-349294.4	2584.46	-283401.28	0	0	10
5-6	2920.08	729.72	-347607.4	3347.69	-284322.63	0	0	10
5-7	-7939.94	324.37	-349358.4	2500.99	-283553.13	0	0	10
5-8	3065.71	707.93	-347671.4	3264.22	-284474.48	0	0	10
5-9	-15932.27	-41303	-345706.4	-18514.74	-282388.98	0	0	10
5-10	-4926.61	-40919.44	-344020.4	-17751.51	-283310.33	0	0	10
5-11	-15786.63	-41324.79	-345770.4	-18598.21	-282540.84	0	0	10
5-12	-4780.98	-40941.23	-344083.4	-17834.98	-283462.19	0	0	10
5-13	-9250.1	485.89	-348762.4	3157.89	-282092.91	0	0	10
5-14	1755.56	869.45	-347075.4	3921.12	-283014.26	0	0	10
5-15	-9104.46	464.1	-348825.4	3074.41	-282244.77	0	0	10
5-16	1901.19	847.66	-347139.4	3837.64	-283166.12	0	0	10
6-1	-21522.58	-25654.69	-348497.4	-11099.53	-282228.5	0	0	10
6-2	-19964.42	-15910.28	-349210.4	-6045.87	-282159.47	0	0	10
6-3	-21794.13	-25622.1	-348373.4	-10965.82	-281923.42	0	0	10
6-4	-20235.97	-15877.69	-349086.4	-5912.16	-281854.38	0	0	10
6-5	6992.08	-24660.92	-344127.4	-9122.08	-284615.64	0	0	10
6-6	8550.24	-14916.51	-344839.4	-4068.42	-284546.6	0	0	10
6-7	6720.53	-24628.34	-344003.4	-8988.37	-284310.55	0	0	10
6-8	8278.69	-14883.93	-344715.4	-3934.71	-284241.51	0	0	10
6-9	-21145.25	-25711.14	-348662.4	-11315.81	-282621.95	0	0	10
6-10	-19587.09	-15966.74	-349375.4	-6262.15	-282552.91	0	0	10
6-11	-21416.79	-25678.56	-348538.4	-11182.1	-282316.86	0	0	10
6-12	-19858.63	-15934.15	-349251.4	-6128.44	-282247.82	0	0	10
6-13	7369.41	-24717.38	-344292.4	-9338.36	-285009.08	0	0	10
6-14	8927.57	-14972.97	-345004.4	-4284.7	-284940.04	0	0	10
6-15	7097.87	-24684.8	-344168.4	-9204.65	-284704	0	0	10
6-16	8656.03	-14940.39	-344880.4	-4150.98	-284634.96	0	0	10
7-1	-12911.44	-36733.12	-346339.4	-16535.06	-283638.19	0	0	10
7-2	-4357.04	-36434.99	-345028.4	-15941.82	-284354.33	0	0	10
7-3	-12798.24	-36750.06	-346389.4	-16599.94	-283756.22	0	0	10
7-4	-4243.84	-36451.93	-345077.4	-16006.71	-284472.36	0	0	10
7-5	-7717.57	-4251.76	-348714.4	310.48	-283408.06	0	0	10
7-6	836.83	-3953.63	-347403.4	903.72	-284124.2	0	0	10
7-7	-7604.37	-4268.69	-348763.4	245.6	-283526.09	0	0	10
7-8	950.03	-3970.56	-347452.4	838.83	-284242.23	0	0	10
7-9	-13816.59	-36624.51	-345925.4	-16089.35	-282621.23	0	0	10
7-10	-5262.19	-36326.38	-344614.4	-15496.12	-283337.37	0	0	10
7-11	-13703.39	-36641.45	-345975.4	-16154.24	-282739.26	0	0	10
7-12	-5148.99	-36343.32	-344664.4	-15561	-283455.4	0	0	10
7-13	-8622.72	-4143.15	-348300.4	756.19	-282391.1	0	0	10
7-14	-68.32	-3845.02	-346989.4	1349.42	-283107.24	0	0	10
7-15	-8509.52	-4160.08	-348350.4	691.3	-282509.13	0	0	10
7-16	44.88	-3861.96	-347038.4	1284.54	-283225.28	0	0	10

Rispetto al sistema di rif. locale (centro piano di posa):

Caso	Hx [daN]	Hy [daN]	Vz [daN]	Mx [daN*m]	My [daN*m]	dx [cm]	dy [cm]	dz [cm]
1-1	-8259.23	-25470.66	-536921.72	27773.78	-404318.98	-	-	-
2-1	-24081.59	-26563.21	-348804.4	-9032.42	-284432.61	-	-	-
2-2	-22259.18	-15166.24	-349637.4	-4261.4	-284169.62	-	-	-
2-3	-24399.18	-26525.1	-348659.4	-8879.84	-284107.54	-	-	-
2-4	-22576.77	-15128.13	-349492.4	-4108.82	-283844.56	-	-	-
2-5	9268.89	-25400.91	-343692.4	-6835.84	-283889.53	-	-	-
2-6	11091.3	-14003.94	-344526.4	-2064.82	-283626.54	-	-	-
2-7	8951.29	-25362.81	-343547.4	-6683.26	-283564.46	-	-	-
2-8	10773.7	-13965.83	-344380.4	-1912.25	-283301.48	-	-	-
2-9	-23640.26	-26629.24	-348997.4	-9278.77	-284848.65	-	-	-
2-10	-21817.85	-15232.27	-349830.4	-4507.75	-284585.66	-	-	-
2-11	-23957.86	-26591.13	-348852.4	-9126.2	-284523.58	-	-	-
2-12	-22135.45	-15194.16	-349685.4	-4355.17	-284260.59	-	-	-
2-13	9710.22	-25466.95	-343885.4	-7082.19	-284305.57	-	-	-
2-14	11532.63	-14069.98	-344719.4	-2311.17	-284042.58	-	-	-
2-15	9392.62	-25428.84	-343740.4	-6929.62	-283980.5	-	-	-
2-16	11215.03	-14031.87	-344574.4	-2158.59	-283717.51	-	-	-
3-1	-14010.07	-39520.44	-346280.4	-14094.04	-285074.21	-	-	-
3-2	-4004.93	-39171.75	-344746.4	-13435.07	-284911.28	-	-	-

3-3	-13877.68	-39540.25	-346338.4	-14167.93	-285199.02	-	-	-
3-4	-3872.53	-39191.56	-344804.4	-13508.96	-285036.09	-	-	-
3-5	-7935.37	-1530.54	-349057.4	1809.36	-284197.58	-	-	-
3-6	2069.77	-1181.85	-347524.4	2468.33	-284034.66	-	-	-
3-7	-7802.97	-1550.35	-349115.4	1735.45	-284322.39	-	-	-
3-8	2202.17	-1201.66	-347582.4	2394.43	-284159.47	-	-	-
3-9	-15068.73	-39393.41	-345796.4	-13585.44	-283990.65	-	-	-
3-10	-5063.58	-39044.73	-344262.4	-12926.47	-283827.73	-	-	-
3-11	-14936.33	-39413.22	-345854.4	-13659.35	-284115.46	-	-	-
3-12	-4931.19	-39064.54	-344320.4	-13000.38	-283952.54	-	-	-
3-13	-8994.03	-1403.51	-348573.4	2317.95	-283114.02	-	-	-
3-14	1011.12	-1054.82	-347040.4	2976.93	-282951.1	-	-	-
3-15	-8861.63	-1423.32	-348631.4	2244.05	-283238.83	-	-	-
3-16	1143.52	-1074.63	-347098.4	2903.02	-283075.91	-	-	-
4-1	-25846.42	-27189.78	-349016.4	-9376.11	-284468.36	-	-	-
4-2	-23841.77	-14653.11	-349932.4	-4127.99	-284179.08	-	-	-
4-3	-26195.78	-27147.86	-348856.4	-9208.27	-284110.79	-	-	-
4-4	-24191.12	-14611.19	-349772.4	-3960.15	-283821.5	-	-	-
4-5	10839.11	-25911.25	-343393.4	-6959.87	-283870.98	-	-	-
4-6	12843.76	-13374.58	-344309.4	-1711.75	-283581.69	-	-	-
4-7	10489.75	-25869.33	-343233.4	-6792.04	-283513.41	-	-	-
4-8	12494.4	-13332.66	-344150.4	-1543.91	-283224.12	-	-	-
4-9	-25360.96	-27262.41	-349228.4	-9647.1	-284926	-	-	-
4-10	-23356.31	-14725.74	-350144.4	-4398.98	-284636.71	-	-	-
4-11	-25710.32	-27220.49	-349068.4	-9479.26	-284568.43	-	-	-
4-12	-23705.66	-14683.83	-349985.4	-4231.14	-284279.14	-	-	-
4-13	11324.57	-25983.89	-343605.4	-7230.86	-284328.61	-	-	-
4-14	13329.22	-13447.22	-344522.4	-1982.74	-284039.33	-	-	-
4-15	10975.21	-25941.97	-343445.4	-7063.02	-283971.04	-	-	-
4-16	12979.86	-13405.3	-344362.4	-1814.9	-283681.75	-	-	-
5-1	-14767.75	-41442.73	-346239.4	-14943.89	-285174.12	-	-	-
5-2	-3762.09	-41059.17	-344552.4	-14219.01	-284994.91	-	-	-
5-3	-14622.11	-41464.52	-346303.4	-15025.18	-285311.41	-	-	-
5-4	-3616.46	-41080.97	-344616.4	-14300.31	-285132.2	-	-	-
5-5	-8085.58	346.16	-349294.4	2549.84	-284209.84	-	-	-
5-6	2920.08	729.72	-347607.4	3274.72	-284030.62	-	-	-
5-7	-7939.94	324.37	-349358.4	2468.55	-284347.12	-	-	-
5-8	3065.71	707.93	-347671.4	3193.43	-284167.91	-	-	-
5-9	-15932.27	-41303	-345706.4	-14384.44	-283982.21	-	-	-
5-10	-4926.61	-40919.44	-344020.4	-13659.57	-283802.99	-	-	-
5-11	-15786.63	-41324.79	-345770.4	-14465.73	-284119.5	-	-	-
5-12	-4780.98	-40941.23	-344083.4	-13740.86	-283940.29	-	-	-
5-13	-9250.1	485.89	-348762.4	3109.3	-283017.92	-	-	-
5-14	1755.56	869.45	-347075.4	3834.18	-282838.7	-	-	-
5-15	-9104.46	464.1	-348825.4	3028	-283155.22	-	-	-
5-16	1901.19	847.66	-347139.4	3752.87	-282976	-	-	-
6-1	-21522.58	-25654.69	-348497.4	-8534.06	-284380.76	-	-	-
6-2	-19964.42	-15910.28	-349210.4	-4454.84	-284155.91	-	-	-
6-3	-21794.13	-25622.1	-348373.4	-8403.61	-284102.83	-	-	-
6-4	-20235.97	-15877.69	-349086.4	-4324.39	-283877.98	-	-	-
6-5	6992.08	-24660.92	-344127.4	-6655.99	-283916.43	-	-	-
6-6	8550.24	-14916.51	-344839.4	-2576.77	-283691.58	-	-	-
6-7	6720.53	-24628.34	-344003.4	-6525.54	-283638.5	-	-	-
6-8	8278.69	-14883.93	-344715.4	-2446.32	-283413.64	-	-	-
6-9	-21145.25	-25711.14	-348662.4	-8744.7	-284736.48	-	-	-
6-10	-19587.09	-15966.74	-349375.4	-4665.48	-284511.62	-	-	-
6-11	-21416.79	-25678.56	-348538.4	-8614.24	-284458.54	-	-	-
6-12	-19858.63	-15934.15	-349251.4	-4535.03	-284233.68	-	-	-
6-13	7369.41	-24717.38	-344292.4	-6866.62	-284272.14	-	-	-
6-14	8927.57	-14972.97	-345004.4	-2787.4	-284047.28	-	-	-
6-15	7097.87	-24684.8	-344168.4	-6736.17	-283994.21	-	-	-
6-16	8656.03	-14940.39	-344880.4	-2656.94	-283769.36	-	-	-
7-1	-12911.44	-36733.12	-346339.4	-12861.75	-284929.33	-	-	-
7-2	-4357.04	-36434.99	-345028.4	-12298.32	-284790.03	-	-	-
7-3	-12798.24	-36750.06	-346389.4	-12924.93	-285036.04	-	-	-
7-4	-4243.84	-36451.93	-345077.4	-12361.52	-284896.74	-	-	-
7-5	-7717.57	-4251.76	-348714.4	735.66	-284179.82	-	-	-
7-6	836.83	-3953.63	-347403.4	1299.08	-284040.52	-	-	-
7-7	-7604.37	-4268.69	-348763.4	672.47	-284286.53	-	-	-

7-8	950.03	-3970.56	-347452.4	1235.89	-284147.23	-	-	-
7-9	-13816.59	-36624.51	-345925.4	-12426.9	-284002.89	-	-	-
7-10	-5262.19	-36326.38	-344614.4	-11863.48	-283863.59	-	-	-
7-11	-13703.39	-36641.45	-345975.4	-12490.1	-284109.6	-	-	-
7-12	-5148.99	-36343.32	-344664.4	-11926.67	-283970.3	-	-	-
7-13	-8622.72	-4143.15	-348300.4	1170.51	-283253.37	-	-	-
7-14	-68.32	-3845.02	-346989.4	1733.92	-283114.07	-	-	-
7-15	-8509.52	-4160.08	-348350.4	1107.31	-283360.08	-	-	-
7-16	44.88	-3861.96	-347038.4	1670.74	-283220.79	-	-	-

Le sollecitazioni applicate provocano un' eccentricità lungo X (max = 82.75 [cm]) e lungo Y (max = 5.17 [cm]), perciò le verifiche vengono eseguite sulla fondazione ridotta rettangolare.

Caso	ecc. X [cm]	ecc. Y [cm]	Asse B	Asse L
1-1	75.3	5.17	asse Y	asse X
2-1	81.55	2.59	asse Y	asse X
2-2	81.28	1.22	asse Y	asse X
2-3	81.49	2.55	asse Y	asse X
2-4	81.22	1.18	asse Y	asse X
2-5	82.6	1.99	asse Y	asse X
2-6	82.32	0.6	asse Y	asse X
2-7	82.54	1.95	asse Y	asse X
2-8	82.26	0.56	asse Y	asse X
2-9	81.62	2.66	asse Y	asse X
2-10	81.35	1.29	asse Y	asse X
2-11	81.56	2.62	asse Y	asse X
2-12	81.29	1.25	asse Y	asse X
2-13	82.67	2.06	asse Y	asse X
2-14	82.4	0.67	asse Y	asse X
2-15	82.61	2.02	asse Y	asse X
2-16	82.34	0.63	asse Y	asse X
3-1	82.32	4.07	asse Y	asse X
3-2	82.64	3.9	asse Y	asse X
3-3	82.35	4.09	asse Y	asse X
3-4	82.67	3.92	asse Y	asse X
3-5	81.42	0.52	asse Y	asse X
3-6	81.73	0.71	asse Y	asse X
3-7	81.44	0.5	asse Y	asse X
3-8	81.75	0.69	asse Y	asse X
3-9	82.13	3.93	asse Y	asse X
3-10	82.45	3.75	asse Y	asse X
3-11	82.15	3.95	asse Y	asse X
3-12	82.47	3.78	asse Y	asse X
3-13	81.22	0.66	asse Y	asse X
3-14	81.53	0.86	asse Y	asse X
3-15	81.24	0.64	asse Y	asse X
3-16	81.55	0.84	asse Y	asse X
4-1	81.51	2.69	asse Y	asse X
4-2	81.21	1.18	asse Y	asse X
4-3	81.44	2.64	asse Y	asse X
4-4	81.14	1.13	asse Y	asse X
4-5	82.67	2.03	asse Y	asse X
4-6	82.36	0.5	asse Y	asse X
4-7	82.6	1.98	asse Y	asse X
4-8	82.3	0.45	asse Y	asse X
4-9	81.59	2.76	asse Y	asse X
4-10	81.29	1.26	asse Y	asse X
4-11	81.52	2.72	asse Y	asse X
4-12	81.23	1.21	asse Y	asse X
4-13	82.75	2.1	asse Y	asse X
4-14	82.44	0.58	asse Y	asse X
4-15	82.68	2.06	asse Y	asse X
4-16	82.38	0.53	asse Y	asse X
5-1	82.36	4.32	asse Y	asse X
5-2	82.71	4.13	asse Y	asse X
5-3	82.39	4.34	asse Y	asse X
5-4	82.74	4.15	asse Y	asse X
5-5	81.37	0.73	asse Y	asse X
5-6	81.71	0.94	asse Y	asse X

5-7	81.39	0.71	asse Y	asse X
5-8	81.73	0.92	asse Y	asse X
5-9	82.15	4.16	asse Y	asse X
5-10	82.5	3.97	asse Y	asse X
5-11	82.17	4.18	asse Y	asse X
5-12	82.52	3.99	asse Y	asse X
5-13	81.15	0.89	asse Y	asse X
5-14	81.49	1.1	asse Y	asse X
5-15	81.17	0.87	asse Y	asse X
5-16	81.52	1.08	asse Y	asse X
6-1	81.6	2.45	asse Y	asse X
6-2	81.37	1.28	asse Y	asse X
6-3	81.55	2.41	asse Y	asse X
6-4	81.32	1.24	asse Y	asse X
6-5	82.5	1.93	asse Y	asse X
6-6	82.27	0.75	asse Y	asse X
6-7	82.45	1.9	asse Y	asse X
6-8	82.22	0.71	asse Y	asse X
6-9	81.67	2.51	asse Y	asse X
6-10	81.43	1.34	asse Y	asse X
6-11	81.61	2.47	asse Y	asse X
6-12	81.38	1.3	asse Y	asse X
6-13	82.57	1.99	asse Y	asse X
6-14	82.33	0.81	asse Y	asse X
6-15	82.52	1.96	asse Y	asse X
6-16	82.28	0.77	asse Y	asse X
7-1	82.27	3.71	asse Y	asse X
7-2	82.54	3.56	asse Y	asse X
7-3	82.29	3.73	asse Y	asse X
7-4	82.56	3.58	asse Y	asse X
7-5	81.49	0.21	asse Y	asse X
7-6	81.76	0.37	asse Y	asse X
7-7	81.51	0.19	asse Y	asse X
7-8	81.78	0.36	asse Y	asse X
7-9	82.1	3.59	asse Y	asse X
7-10	82.37	3.44	asse Y	asse X
7-11	82.12	3.61	asse Y	asse X
7-12	82.39	3.46	asse Y	asse X
7-13	81.32	0.34	asse Y	asse X
7-14	81.59	0.5	asse Y	asse X
7-15	81.34	0.32	asse Y	asse X
7-16	81.61	0.48	asse Y	asse X

Capacità portante.

Le seguenti tabelle elencano il valore dell'angolo di resistenza al taglio, del peso di volume alleggerito, della coesione efficace, del sovraccarico alleggerito, e dei fattori e coefficienti introdotti nel calcolo della capacità portante.

Caso	γ_{ψ}	γ_r	ϕ [°]	γ' [daN/m³]	N_r	s_r	d_r	i_{br}	i_{hr}	b_r	g_r	h_r	$q'_{lim,r}$ [daN/cm²]
1-1	1.00	1.00	32.9	2210	34.79	1.29	1.00	0.96	0.99	1.00	1.00	-	41.69
2-1	-	-	32.9	2210	34.84	1.30	1.00	0.96	0.96	1.00	1.00	0.49	19.86
2-2	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.97	1.00	1.00	0.49	20.39
2-3	-	-	32.9	2210	34.84	1.30	1.00	0.96	0.96	1.00	1.00	0.49	19.85
2-4	-	-	32.9	2210	34.88	1.30	1.00	0.98	0.97	1.00	1.00	0.49	20.38
2-5	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.99	1.00	1.00	0.49	20.41
2-6	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.98	1.00	1.00	0.49	20.83
2-7	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.99	1.00	1.00	0.49	20.42
2-8	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.98	1.00	1.00	0.49	20.85
2-9	-	-	32.9	2210	34.84	1.30	1.00	0.96	0.96	1.00	1.00	0.49	19.86
2-10	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.97	1.00	1.00	0.49	20.39
2-11	-	-	32.9	2210	34.84	1.30	1.00	0.96	0.96	1.00	1.00	0.49	19.86
2-12	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.97	1.00	1.00	0.49	20.39
2-13	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.99	1.00	1.00	0.49	20.39
2-14	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.98	1.00	1.00	0.49	20.81

2-15	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.99	1.00	1.00	0.49	20.4
2-16	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.98	1.00	1.00	0.49	20.83
3-1	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.64
3-2	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.99	1.00	1.00	0.49	19.97
3-3	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.64
3-4	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.99	1.00	1.00	0.49	19.98
3-5	-	-	32.9	2210	34.89	1.30	1.00	1.00	0.99	1.00	1.00	0.49	21.35
3-6	-	-	32.9	2210	34.89	1.30	1.00	1.00	1.00	1.00	1.00	0.49	21.54
3-7	-	-	32.9	2210	34.89	1.30	1.00	1.00	0.99	1.00	1.00	0.49	21.36
3-8	-	-	32.9	2210	34.89	1.30	1.00	1.00	1.00	1.00	1.00	0.49	21.54
3-9	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.62
3-10	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.99	1.00	1.00	0.49	19.95
3-11	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.62
3-12	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.99	1.00	1.00	0.49	19.96
3-13	-	-	32.9	2210	34.89	1.30	1.00	1.00	0.99	1.00	1.00	0.49	21.31
3-14	-	-	32.9	2210	34.88	1.30	1.00	1.00	1.00	1.00	1.00	0.49	21.57
3-15	-	-	32.9	2210	34.89	1.30	1.00	1.00	0.99	1.00	1.00	0.49	21.31
3-16	-	-	32.9	2210	34.88	1.30	1.00	1.00	1.00	1.00	1.00	0.49	21.56
4-1	-	-	32.9	2210	34.84	1.30	1.00	0.96	0.96	1.00	1.00	0.49	19.77
4-2	-	-	32.9	2210	34.88	1.30	1.00	0.98	0.96	1.00	1.00	0.49	20.35
4-3	-	-	32.9	2210	34.84	1.30	1.00	0.96	0.96	1.00	1.00	0.49	19.77
4-4	-	-	32.9	2210	34.88	1.30	1.00	0.98	0.96	1.00	1.00	0.49	20.35
4-5	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.98	1.00	1.00	0.49	20.34
4-6	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.98	1.00	1.00	0.49	20.81
4-7	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.98	1.00	1.00	0.49	20.35
4-8	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.98	1.00	1.00	0.49	20.82
4-9	-	-	32.9	2210	34.84	1.30	1.00	0.96	0.96	1.00	1.00	0.49	19.78
4-10	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.96	1.00	1.00	0.49	20.36
4-11	-	-	32.9	2210	34.84	1.30	1.00	0.96	0.96	1.00	1.00	0.49	19.78
4-12	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.96	1.00	1.00	0.49	20.36
4-13	-	-	32.9	2210	34.85	1.30	1.00	0.96	0.98	1.00	1.00	0.49	20.32
4-14	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.98	1.00	1.00	0.49	20.78
4-15	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.98	1.00	1.00	0.49	20.33
4-16	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.98	1.00	1.00	0.49	20.8
5-1	-	-	32.9	2210	34.80	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.54
5-2	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.99	1.00	1.00	0.49	19.9
5-3	-	-	32.9	2210	34.80	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.54
5-4	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.99	1.00	1.00	0.49	19.9
5-5	-	-	32.9	2210	34.89	1.30	1.00	1.00	0.99	1.00	1.00	0.49	21.37
5-6	-	-	32.9	2210	34.88	1.30	1.00	1.00	1.00	1.00	1.00	0.49	21.51
5-7	-	-	32.9	2210	34.89	1.30	1.00	1.00	0.99	1.00	1.00	0.49	21.37
5-8	-	-	32.9	2210	34.88	1.30	1.00	1.00	1.00	1.00	1.00	0.49	21.51
5-9	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.52
5-10	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.99	1.00	1.00	0.49	19.88
5-11	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.52
5-12	-	-	32.9	2210	34.81	1.30	1.00	0.94	0.99	1.00	1.00	0.49	19.88
5-13	-	-	32.9	2210	34.88	1.30	1.00	1.00	0.99	1.00	1.00	0.49	21.31
5-14	-	-	32.9	2210	34.88	1.30	1.00	1.00	1.00	1.00	1.00	0.49	21.53
5-15	-	-	32.9	2210	34.88	1.30	1.00	1.00	0.99	1.00	1.00	0.49	21.32
5-16	-	-	32.9	2210	34.88	1.30	1.00	1.00	1.00	1.00	1.00	0.49	21.53
6-1	-	-	32.9	2210	34.85	1.30	1.00	0.96	0.97	1.00	1.00	0.49	19.98
6-2	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.97	1.00	1.00	0.49	20.43
6-3	-	-	32.9	2210	34.85	1.30	1.00	0.96	0.97	1.00	1.00	0.49	19.97
6-4	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.97	1.00	1.00	0.49	20.42
6-5	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.99	1.00	1.00	0.49	20.51
6-6	-	-	32.9	2210	34.88	1.30	1.00	0.98	0.99	1.00	1.00	0.49	20.87
6-7	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.99	1.00	1.00	0.49	20.52
6-8	-	-	32.9	2210	34.89	1.30	1.00	0.98	0.99	1.00	1.00	0.49	20.89
6-9	-	-	32.9	2210	34.85	1.30	1.00	0.96	0.97	1.00	1.00	0.49	19.98
6-10	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.97	1.00	1.00	0.49	20.44
6-11	-	-	32.9	2210	34.85	1.30	1.00	0.96	0.97	1.00	1.00	0.49	19.98
6-12	-	-	32.9	2210	34.87	1.30	1.00	0.98	0.97	1.00	1.00	0.49	20.43
6-13	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.99	1.00	1.00	0.49	20.49
6-14	-	-	32.9	2210	34.88	1.30	1.00	0.98	0.99	1.00	1.00	0.49	20.85
6-15	-	-	32.9	2210	34.86	1.30	1.00	0.96	0.99	1.00	1.00	0.49	20.5
6-16	-	-	32.9	2210	34.88	1.30	1.00	0.98	0.99	1.00	1.00	0.49	20.87
7-1	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.79
7-2	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.99	1.00	1.00	0.49	20.08
7-3	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.79

7-4	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.99	1.00	1.00	0.49	20.08
7-5	-	-	32.9	2210	34.90	1.30	1.00	0.99	0.99	1.00	1.00	0.49	21.29
7-6	-	-	32.9	2210	34.89	1.30	1.00	0.99	1.00	1.00	1.00	0.49	21.52
7-7	-	-	32.9	2210	34.90	1.30	1.00	0.99	0.99	1.00	1.00	0.49	21.3
7-8	-	-	32.9	2210	34.89	1.30	1.00	0.99	1.00	1.00	1.00	0.49	21.51
7-9	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.77
7-10	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.99	1.00	1.00	0.49	20.06
7-11	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.98	1.00	1.00	0.49	19.78
7-12	-	-	32.9	2210	34.82	1.30	1.00	0.94	0.99	1.00	1.00	0.49	20.06
7-13	-	-	32.9	2210	34.89	1.30	1.00	0.99	0.99	1.00	1.00	0.49	21.25
7-14	-	-	32.9	2210	34.89	1.30	1.00	0.99	1.00	1.00	1.00	0.49	21.53
7-15	-	-	32.9	2210	34.89	1.30	1.00	0.99	0.99	1.00	1.00	0.49	21.26
7-16	-	-	32.9	2210	34.89	1.30	1.00	0.99	1.00	1.00	1.00	0.49	21.53

Caso	γ_c	c' [daN/cm ²]	N_c	s_c	d_c	i_{bc}	i_c	b_c	g_c	h_c	$q'_{lim,c}$ [daN/cm ²]
1-1	1.00	0.92	38.39	1.59	1.00	0.98	0.99	1.00	1.00	-	54.51
2-1	-	0.92	38.43	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.52
2-2	-	0.92	38.44	1.60	1.00	0.99	0.98	1.00	1.00	0.75	41.19
2-3	-	0.92	38.43	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.51
2-4	-	0.92	38.45	1.60	1.00	0.99	0.98	1.00	1.00	0.75	41.19
2-5	-	0.92	38.43	1.60	1.00	0.97	0.99	1.00	1.00	0.75	41.23
2-6	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.78
2-7	-	0.92	38.43	1.60	1.00	0.97	0.99	1.00	1.00	0.75	41.25
2-8	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.79
2-9	-	0.92	38.42	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.53
2-10	-	0.92	38.44	1.60	1.00	0.99	0.98	1.00	1.00	0.75	41.2
2-11	-	0.92	38.43	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.52
2-12	-	0.92	38.44	1.60	1.00	0.99	0.98	1.00	1.00	0.75	41.19
2-13	-	0.92	38.43	1.60	1.00	0.97	0.99	1.00	1.00	0.75	41.21
2-14	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.75
2-15	-	0.92	38.43	1.60	1.00	0.97	0.99	1.00	1.00	0.75	41.23
2-16	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.77
3-1	-	0.92	38.41	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.24
3-2	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.67
3-3	-	0.92	38.40	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.24
3-4	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.67
3-5	-	0.92	38.45	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.41
3-6	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.65
3-7	-	0.92	38.45	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.41
3-8	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.64
3-9	-	0.92	38.41	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.21
3-10	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.64
3-11	-	0.92	38.41	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.21
3-12	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.64
3-13	-	0.92	38.45	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.35
3-14	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.67
3-15	-	0.92	38.45	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.35
3-16	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.67
4-1	-	0.92	38.42	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.41
4-2	-	0.92	38.45	1.60	1.00	0.99	0.98	1.00	1.00	0.75	41.15
4-3	-	0.92	38.43	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.4
4-4	-	0.92	38.45	1.60	1.00	0.99	0.98	1.00	1.00	0.75	41.15
4-5	-	0.92	38.43	1.60	1.00	0.97	0.99	1.00	1.00	0.75	41.15
4-6	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.75
4-7	-	0.92	38.43	1.60	1.00	0.97	0.99	1.00	1.00	0.75	41.17
4-8	-	0.92	38.46	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.76
4-9	-	0.92	38.42	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.42
4-10	-	0.92	38.44	1.60	1.00	0.99	0.98	1.00	1.00	0.75	41.17
4-11	-	0.92	38.42	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.41
4-12	-	0.92	38.44	1.60	1.00	0.99	0.98	1.00	1.00	0.75	41.16
4-13	-	0.92	38.43	1.60	1.00	0.97	0.99	1.00	1.00	0.75	41.12
4-14	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.72
4-15	-	0.92	38.43	1.60	1.00	0.97	0.99	1.00	1.00	0.75	41.14
4-16	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.74
5-1	-	0.92	38.40	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.1
5-2	-	0.92	38.40	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.57
5-3	-	0.92	38.40	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.11
5-4	-	0.92	38.40	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.58

5-5	-	0.92	38.45	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.43
5-6	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.61
5-7	-	0.92	38.45	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.44
5-8	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.6
5-9	-	0.92	38.40	1.60	1.00	0.96	0.98	1.00	1.00	0.75	40.07
5-10	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.54
5-11	-	0.92	38.40	1.60	1.00	0.96	0.98	1.00	1.00	0.75	40.08
5-12	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.55
5-13	-	0.92	38.45	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.35
5-14	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.62
5-15	-	0.92	38.45	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.36
5-16	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.62
6-1	-	0.92	38.43	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.67
6-2	-	0.92	38.44	1.60	1.00	0.98	0.98	1.00	1.00	0.75	41.25
6-3	-	0.92	38.43	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.66
6-4	-	0.92	38.44	1.60	1.00	0.98	0.98	1.00	1.00	0.75	41.24
6-5	-	0.92	38.43	1.60	1.00	0.98	0.99	1.00	1.00	0.75	41.36
6-6	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.82
6-7	-	0.92	38.44	1.60	1.00	0.98	0.99	1.00	1.00	0.75	41.37
6-8	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.84
6-9	-	0.92	38.43	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.68
6-10	-	0.92	38.44	1.60	1.00	0.98	0.98	1.00	1.00	0.75	41.26
6-11	-	0.92	38.43	1.60	1.00	0.97	0.98	1.00	1.00	0.75	40.67
6-12	-	0.92	38.44	1.60	1.00	0.98	0.98	1.00	1.00	0.75	41.25
6-13	-	0.92	38.43	1.60	1.00	0.98	0.99	1.00	1.00	0.75	41.34
6-14	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.8
6-15	-	0.92	38.43	1.60	1.00	0.98	0.99	1.00	1.00	0.75	41.35
6-16	-	0.92	38.45	1.60	1.00	0.99	0.99	1.00	1.00	0.75	41.82
7-1	-	0.92	38.41	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.43
7-2	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.8
7-3	-	0.92	38.41	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.43
7-4	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.8
7-5	-	0.92	38.46	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.34
7-6	-	0.92	38.46	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.62
7-7	-	0.92	38.46	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.34
7-8	-	0.92	38.46	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.61
7-9	-	0.92	38.41	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.41
7-10	-	0.92	38.41	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.78
7-11	-	0.92	38.41	1.60	1.00	0.96	0.99	1.00	1.00	0.75	40.41
7-12	-	0.92	38.41	1.60	1.00	0.96	1.00	1.00	1.00	0.75	40.78
7-13	-	0.92	38.46	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.29
7-14	-	0.92	38.45	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.63
7-15	-	0.92	38.46	1.60	1.00	1.00	0.99	1.00	1.00	0.75	42.29
7-16	-	0.92	38.46	1.60	1.00	1.00	1.00	1.00	1.00	0.75	42.64
Caso	q' [daN/cm²]	N _q	s _q	d _q	i _{bq}	i _{la}	b _q	g _q	h _q	q' _{lim,q} [daN/cm²]	
1-1	0.02	25.86	1.29	1.00	0.98	0.99	1.00	1.00	-	0.59	
2-1	0.02	25.89	1.30	1.00	0.97	0.98	1.00	1.00	0.67	0.39	
2-2	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.39	
2-3	0.02	25.89	1.30	1.00	0.97	0.98	1.00	1.00	0.67	0.39	
2-4	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.39	
2-5	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.4	
2-6	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4	
2-7	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.4	
2-8	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4	
2-9	0.02	25.89	1.30	1.00	0.97	0.98	1.00	1.00	0.67	0.39	
2-10	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.4	
2-11	0.02	25.89	1.30	1.00	0.97	0.98	1.00	1.00	0.67	0.39	
2-12	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.39	
2-13	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.4	
2-14	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4	
2-15	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.4	
2-16	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4	
3-1	0.02	25.87	1.30	1.00	0.96	0.99	1.00	1.00	0.67	0.39	
3-2	0.02	25.88	1.30	1.00	0.96	1.00	1.00	1.00	0.67	0.39	
3-3	0.02	25.87	1.30	1.00	0.96	0.99	1.00	1.00	0.67	0.39	
3-4	0.02	25.88	1.30	1.00	0.96	1.00	1.00	1.00	0.67	0.39	
3-5	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.41	

3-6	0.02	25.92	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
3-7	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.41
3-8	0.02	25.92	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
3-9	0.02	25.88	1.30	1.00	0.96	0.99	1.00	1.00	0.67	0.39
3-10	0.02	25.88	1.30	1.00	0.96	1.00	1.00	1.00	0.67	0.39
3-11	0.02	25.88	1.30	1.00	0.96	0.99	1.00	1.00	0.67	0.39
3-12	0.02	25.88	1.30	1.00	0.96	1.00	1.00	1.00	0.67	0.39
3-13	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.41
3-14	0.02	25.92	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
3-15	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.41
3-16	0.02	25.92	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
4-1	0.02	25.89	1.30	1.00	0.97	0.98	1.00	1.00	0.67	0.39
4-2	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.39
4-3	0.02	25.89	1.30	1.00	0.97	0.98	1.00	1.00	0.67	0.39
4-4	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.39
4-5	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.39
4-6	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4
4-7	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.39
4-8	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4
4-9	0.02	25.89	1.30	1.00	0.97	0.98	1.00	1.00	0.67	0.39
4-10	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.39
4-11	0.02	25.89	1.30	1.00	0.97	0.98	1.00	1.00	0.67	0.39
4-12	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.39
4-13	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.39
4-14	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4
4-15	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.39
4-16	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4
5-1	0.02	25.87	1.30	1.00	0.96	0.99	1.00	1.00	0.67	0.39
5-2	0.02	25.87	1.30	1.00	0.96	1.00	1.00	1.00	0.67	0.39
5-3	0.02	25.87	1.30	1.00	0.96	0.99	1.00	1.00	0.67	0.39
5-4	0.02	25.87	1.30	1.00	0.96	1.00	1.00	1.00	0.67	0.39
5-5	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.41
5-6	0.02	25.91	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
5-7	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.41
5-8	0.02	25.91	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
5-9	0.02	25.87	1.30	1.00	0.96	0.99	1.00	1.00	0.67	0.39
5-10	0.02	25.87	1.30	1.00	0.96	1.00	1.00	1.00	0.67	0.39
5-11	0.02	25.87	1.30	1.00	0.96	0.99	1.00	1.00	0.67	0.39
5-12	0.02	25.87	1.30	1.00	0.96	1.00	1.00	1.00	0.67	0.39
5-13	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.41
5-14	0.02	25.91	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
5-15	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.41
5-16	0.02	25.91	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
6-1	0.02	25.89	1.30	1.00	0.98	0.98	1.00	1.00	0.67	0.39
6-2	0.02	25.91	1.30	1.00	0.98	0.98	1.00	1.00	0.67	0.4
6-3	0.02	25.90	1.30	1.00	0.98	0.98	1.00	1.00	0.67	0.39
6-4	0.02	25.91	1.30	1.00	0.99	0.98	1.00	1.00	0.67	0.4
6-5	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.4
6-6	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4
6-7	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.4
6-8	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4
6-9	0.02	25.89	1.30	1.00	0.98	0.98	1.00	1.00	0.67	0.39
6-10	0.02	25.91	1.30	1.00	0.98	0.98	1.00	1.00	0.67	0.4
6-11	0.02	25.89	1.30	1.00	0.98	0.98	1.00	1.00	0.67	0.39
6-12	0.02	25.91	1.30	1.00	0.98	0.98	1.00	1.00	0.67	0.4
6-13	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.4
6-14	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4
6-15	0.02	25.90	1.30	1.00	0.98	0.99	1.00	1.00	0.67	0.4
6-16	0.02	25.92	1.30	1.00	0.99	0.99	1.00	1.00	0.67	0.4
7-1	0.02	25.88	1.30	1.00	0.97	0.99	1.00	1.00	0.67	0.39
7-2	0.02	25.88	1.30	1.00	0.97	1.00	1.00	1.00	0.67	0.39
7-3	0.02	25.88	1.30	1.00	0.97	0.99	1.00	1.00	0.67	0.39
7-4	0.02	25.88	1.30	1.00	0.97	1.00	1.00	1.00	0.67	0.39
7-5	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.4
7-6	0.02	25.92	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
7-7	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.4
7-8	0.02	25.92	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
7-9	0.02	25.88	1.30	1.00	0.97	0.99	1.00	1.00	0.67	0.39
7-10	0.02	25.88	1.30	1.00	0.97	1.00	1.00	1.00	0.67	0.39

7-11	0.02	25.88	1.30	1.00	0.97	0.99	1.00	1.00	0.67	0.39
7-12	0.02	25.88	1.30	1.00	0.97	1.00	1.00	1.00	0.67	0.39
7-13	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.4
7-14	0.02	25.92	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41
7-15	0.02	25.92	1.30	1.00	1.00	0.99	1.00	1.00	0.67	0.4
7-16	0.02	25.92	1.30	1.00	1.00	1.00	1.00	1.00	0.67	0.41

Segue il confronto fra la pressione limite ed applicata.

Caso	γ_{Rv}	q'_{lim} [daN/cm ²]	A [cm ²]	R_d [daN]	E_d [daN]	Verifica
1-1	2.30	42.09	892315.92	37558424.8	536921.7	SI (37558424.8/536921.7 = 69.95 >= 1.0)
2-1	1.80	33.77	886510.9	29933158.8	348804.4	SI (29933158.8/348804.4 = 85.82 >= 1.0)
2-2	1.80	34.44	889735.99	30640649	349637.4	SI (30640649/349637.4 = 87.64 >= 1.0)
2-3	1.80	33.76	886701.42	29932724.2	348659.4	SI (29932724.2/348659.4 = 85.85 >= 1.0)
2-4	1.80	34.43	889927.77	30640231	349492.4	SI (30640231/349492.4 = 87.67 >= 1.0)
2-5	1.80	34.47	885845.12	30538348.7	343692.4	SI (30538348.7/343692.4 = 88.85 >= 1.0)
2-6	1.80	35.01	889114.93	31131407.1	344526.4	SI (31131407.1/344526.4 = 90.36 >= 1.0)
2-7	1.80	34.49	886038.15	30560397.6	343547.4	SI (30560397.6/343547.4 = 88.96 >= 1.0)
2-8	1.80	35.03	889308.81	31153838.1	344380.4	SI (31153838.1/344380.4 = 90.46 >= 1.0)
2-9	1.80	33.77	886241.19	29932071.9	348997.4	SI (29932071.9/348997.4 = 85.77 >= 1.0)
2-10	1.80	34.45	889464.66	30639528.3	349830.4	SI (30639528.3/349830.4 = 87.58 >= 1.0)
2-11	1.80	33.77	886431.46	29931627	348852.4	SI (29931627/348852.4 = 85.80 >= 1.0)
2-12	1.80	34.44	889656.19	30639100.4	349685.4	SI (30639100.4/349685.4 = 87.62 >= 1.0)
2-13	1.80	34.45	885571.89	30505994.6	343885.4	SI (30505994.6/343885.4 = 88.71 >= 1.0)
2-14	1.80	34.99	888840.03	31098501.6	344719.4	SI (31098501.6/344719.4 = 90.21 >= 1.0)
2-15	1.80	34.47	885764.66	30528017.3	343740.4	SI (30528017.3/343740.4 = 88.81 >= 1.0)
2-16	1.80	35.01	889034.1	31120917.9	344574.4	SI (31120917.9/344574.4 = 90.32 >= 1.0)
3-1	1.80	33.49	882168.98	29542370.3	346280.4	SI (29542370.3/346280.4 = 85.31 >= 1.0)
3-2	1.80	33.91	881952.23	29910456.6	344746.4	SI (29910456.6/344746.4 = 86.76 >= 1.0)
3-3	1.80	33.49	882088.42	29542027.3	346338.4	SI (29542027.3/346338.4 = 85.30 >= 1.0)
3-4	1.80	33.92	881871.35	29910085	344804.4	SI (29910085/344804.4 = 86.75 >= 1.0)
3-5	1.80	35.65	890885.97	31763068.7	349057.4	SI (31763068.7/349057.4 = 91.00 >= 1.0)
3-6	1.80	35.89	889946.37	31944146.5	347524.4	SI (31944146.5/347524.4 = 91.92 >= 1.0)
3-7	1.80	35.66	890889.06	31769674.6	349115.4	SI (31769674.6/349115.4 = 91.00 >= 1.0)
3-8	1.80	35.89	889949.62	31941141.8	347582.4	SI (31941141.8/347582.4 = 91.90 >= 1.0)
3-9	1.80	33.46	882801.39	29541040.8	345796.4	SI (29541040.8/345796.4 = 85.43 >= 1.0)
3-10	1.80	33.89	882587.11	29909306.9	344262.4	SI (29909306.9/344262.4 = 86.88 >= 1.0)
3-11	1.80	33.47	882720.57	29540688.2	345854.4	SI (29540688.2/345854.4 = 85.41 >= 1.0)
3-12	1.80	33.89	882505.98	29908924.9	344320.4	SI (29908924.9/344320.4 = 86.86 >= 1.0)
3-13	1.80	35.6	890943.65	31713791.7	348573.4	SI (31713791.7/348573.4 = 90.98 >= 1.0)
3-14	1.80	35.92	890003.02	31971729.3	347040.4	SI (31971729.3/347040.4 = 92.13 >= 1.0)
3-15	1.80	35.6	890946.76	31720399.7	348631.4	SI (31720399.7/348631.4 = 90.99 >= 1.0)
3-16	1.80	35.92	890006.3	31968728.9	347098.4	SI (31968728.9/347098.4 = 92.10 >= 1.0)
4-1	1.80	33.66	886386.24	29836147.3	349016.4	SI (29836147.3/349016.4 = 85.49 >= 1.0)
4-2	1.80	34.4	889931.33	30612836	349932.4	SI (30612836/349932.4 = 87.48 >= 1.0)
4-3	1.80	33.65	886595.4	29835652.5	348856.4	SI (29835652.5/348856.4 = 85.52 >= 1.0)
4-4	1.80	34.39	890142.01	30612362.1	349772.4	SI (30612362.1/349772.4 = 87.52 >= 1.0)
4-5	1.80	34.39	885651.56	30455249.2	343393.4	SI (30455249.2/343393.4 = 88.69 >= 1.0)
4-6	1.80	34.98	889250.24	31106796.8	344309.4	SI (31106796.8/344309.4 = 90.35 >= 1.0)
4-7	1.80	34.41	885863.76	30479464.3	343233.4	SI (30479464.3/343233.4 = 88.80 >= 1.0)
4-8	1.80	35	889464.43	31131499.7	344150.4	SI (31131499.7/344150.4 = 90.46 >= 1.0)
4-9	1.80	33.67	886089.73	29834967.7	349228.4	SI (29834967.7/349228.4 = 85.43 >= 1.0)
4-10	1.80	34.41	889632.86	30611616.5	350144.4	SI (30611616.5/350144.4 = 87.43 >= 1.0)
4-11	1.80	33.66	886298.59	29834461.3	349068.4	SI (29834461.3/349068.4 = 85.47 >= 1.0)
4-12	1.80	34.4	889843.67	30611142.1	349985.4	SI (30611142.1/349985.4 = 87.46 >= 1.0)
4-13	1.80	34.36	885350.79	30419707.7	343605.4	SI (30419707.7/343605.4 = 88.53 >= 1.0)
4-14	1.80	34.95	888947.88	31070600	344522.4	SI (31070600/344522.4 = 90.18 >= 1.0)
4-15	1.80	34.38	885562.68	30443891.1	343445.4	SI (30443891.1/343445.4 = 88.64 >= 1.0)
4-16	1.80	34.97	889161.34	31095259.6	344362.4	SI (31095259.6/344362.4 = 90.30 >= 1.0)
5-1	1.80	33.36	881608.89	29406837.6	346239.4	SI (29406837.6/346239.4 = 84.93 >= 1.0)
5-2	1.80	33.82	881368.06	29810173.1	344552.4	SI (29810173.1/344552.4 = 86.52 >= 1.0)
5-3	1.80	33.36	881520.48	29406467.4	346303.4	SI (29406467.4/346303.4 = 84.92 >= 1.0)
5-4	1.80	33.83	881279.27	29809766.7	344616.4	SI (29809766.7/344616.4 = 86.50 >= 1.0)
5-5	1.80	35.67	890553.71	31769368.5	349294.4	SI (31769368.5/349294.4 = 90.95 >= 1.0)
5-6	1.80	35.85	889518.76	31892892.5	347607.4	SI (31892892.5/347607.4 = 91.75 >= 1.0)
5-7	1.80	35.68	890557.27	31778271.3	349358.4	SI (31778271.3/349358.4 = 90.96 >= 1.0)
5-8	1.80	35.85	889522.52	31891235.8	347671.4	SI (31891235.8/347671.4 = 91.73 >= 1.0)
5-9	1.80	33.33	882303.37	29405346.8	345706.4	SI (29405346.8/345706.4 = 85.06 >= 1.0)
5-10	1.80	33.79	882065.96	29808912.3	344020.4	SI (29808912.3/344020.4 = 86.65 >= 1.0)

5-11	1.80	33.33	882214.65	29404965	345770.4	SI (29404965/345770.4 = 85.04 >= 1.0)
5-12	1.80	33.8	881976.42	29808481.9	344083.4	SI (29808481.9/344083.4 = 86.63 >= 1.0)
5-13	1.80	35.6	890616.55	31704687	348762.4	SI (31704687/348762.4 = 90.91 >= 1.0)
5-14	1.80	35.87	889580.36	31912642.7	347075.4	SI (31912642.7/347075.4 = 91.95 >= 1.0)
5-15	1.80	35.61	890619.72	31713578.1	348825.4	SI (31713578.1/348825.4 = 90.92 >= 1.0)
5-16	1.80	35.87	889584.15	31910995.6	347139.4	SI (31910995.6/347139.4 = 91.93 >= 1.0)
6-1	2.30	26.55	886692.06	23539867.6	348497.4	SI (23539867.6/348497.4 = 67.55 >= 1.0)
6-2	2.30	27	889452.52	24014655.5	349210.4	SI (24014655.5/349210.4 = 68.77 >= 1.0)
6-3	2.30	26.54	886855.15	23539585.9	348373.4	SI (23539585.9/348373.4 = 67.57 >= 1.0)
6-4	2.30	26.99	889616.54	24014383.5	349086.4	SI (24014383.5/349086.4 = 68.79 >= 1.0)
6-5	2.30	27.08	886125.84	23997496.2	344127.4	SI (23997496.2/344127.4 = 69.73 >= 1.0)
6-6	2.30	27.44	888918.26	24395036.9	344839.4	SI (24395036.9/344839.4 = 70.74 >= 1.0)
6-7	2.30	27.09	886290.78	24012279.4	344003.4	SI (24012279.4/344003.4 = 69.80 >= 1.0)
6-8	2.30	27.46	889084.14	24410045.3	344715.4	SI (24410045.3/344715.4 = 70.81 >= 1.0)
6-9	2.30	26.55	886461.11	23539121.3	348662.4	SI (23539121.3/348662.4 = 67.51 >= 1.0)
6-10	2.30	27.01	889220.4	24013889.8	349375.4	SI (24013889.8/349375.4 = 68.73 >= 1.0)
6-11	2.30	26.55	886624.03	23538834.2	348538.4	SI (23538834.2/348538.4 = 67.54 >= 1.0)
6-12	2.30	27	889384.23	24013612.5	349251.4	SI (24013612.5/349251.4 = 68.76 >= 1.0)
6-13	2.30	27.06	885892.32	23975800.8	344292.4	SI (23975800.8/344292.4 = 69.64 >= 1.0)
6-14	2.30	27.43	888683.53	24373026.2	345004.4	SI (24373026.2/345004.4 = 70.65 >= 1.0)
6-15	2.30	27.08	886057.07	23990568.7	344168.4	SI (23990568.7/344168.4 = 69.71 >= 1.0)
6-16	2.30	27.44	888849.22	24388019.5	344880.4	SI (24388019.5/344880.4 = 70.71 >= 1.0)
7-1	2.30	26.36	882980.82	23277867.2	346339.4	SI (23277867.2/346339.4 = 67.21 >= 1.0)
7-2	2.30	26.65	882798.66	23525552.9	345028.4	SI (23525552.9/345028.4 = 68.18 >= 1.0)
7-3	2.30	26.36	882911.98	23277638	346389.4	SI (23277638/346389.4 = 67.20 >= 1.0)
7-4	2.30	26.65	882729.14	23525296.7	345077.4	SI (23525296.7/345077.4 = 68.17 >= 1.0)
7-5	2.30	27.85	891368.67	24825100	348714.4	SI (24825100/348714.4 = 71.19 >= 1.0)
7-6	2.30	28.07	890566.42	24999065.6	347403.4	SI (24999065.6/347403.4 = 71.96 >= 1.0)
7-7	2.30	27.86	891370.97	24829505.4	348763.4	SI (24829505.4/348763.4 = 71.19 >= 1.0)
7-8	2.30	28.07	890568.84	24997051.6	347452.4	SI (24997051.6/347452.4 = 71.94 >= 1.0)
7-9	2.30	26.35	883522.48	23276995.9	345925.4	SI (23276995.9/345925.4 = 67.29 >= 1.0)
7-10	2.30	26.63	883342.12	23524784.5	344614.4	SI (23524784.5/344614.4 = 68.26 >= 1.0)
7-11	2.30	26.35	883453.45	23276760.9	345975.4	SI (23276760.9/345975.4 = 67.28 >= 1.0)
7-12	2.30	26.63	883272.87	23524533.1	344664.4	SI (23524533.1/344664.4 = 68.25 >= 1.0)
7-13	2.30	27.81	891418.78	24792210.3	348300.4	SI (24792210.3/348300.4 = 71.18 >= 1.0)
7-14	2.30	28.09	890615.79	25013627	346989.4	SI (25013627/346989.4 = 72.09 >= 1.0)
7-15	2.30	27.82	891421.52	24796625.8	348350.4	SI (24796625.8/348350.4 = 71.18 >= 1.0)
7-16	2.30	28.09	890618.22	25015506.8	347038.4	SI (25015506.8/347038.4 = 72.08 >= 1.0)

Scorrimento.

Le seguenti tabelle elencano il valore dell'angolo di resistenza al taglio, della coesione efficace, dell'attrito e dell'aderenza fondazione-terreno, e della resistenza disponibile sul piano di posa e sulle pareti laterali.

Caso	γ_*	γ_c	φ [°]	c' [daN/cm ²]	δ [°]	a [daN/cm ²]	$\gamma_{R,b}$	$\gamma_{R,e}$	R_b [daN]	R_e [daN]
1-1	1.00	1.00	30	0.1	22.5	0	1.10	1.00	202182.05	2581.6
2-1	-	-	30	0.1	22.5	0	1.10	1.30	131345.01	2098.11
2-2	-	-	30	0.1	22.5	0	1.10	1.30	131658.68	1998.44
2-3	-	-	30	0.1	22.5	0	1.10	1.30	131290.41	2096.77
2-4	-	-	30	0.1	22.5	0	1.10	1.30	131604.08	1993.25
2-5	-	-	30	0.1	22.5	0	1.10	1.30	129420.05	2009.95
2-6	-	-	30	0.1	22.5	0	1.10	1.30	129734.1	2105.22
2-7	-	-	30	0.1	22.5	0	1.10	1.30	129365.45	2003.19
2-8	-	-	30	0.1	22.5	0	1.10	1.30	129679.12	2105.52
2-9	-	-	30	0.1	22.5	0	1.10	1.30	131417.69	2099.84
2-10	-	-	30	0.1	22.5	0	1.10	1.30	131731.36	2005.86
2-11	-	-	30	0.1	22.5	0	1.10	1.30	131363.09	2098.64
2-12	-	-	30	0.1	22.5	0	1.10	1.30	131676.76	2000.71
2-13	-	-	30	0.1	22.5	0	1.10	1.30	129492.72	2018.76
2-14	-	-	30	0.1	22.5	0	1.10	1.30	129806.77	2104.31
2-15	-	-	30	0.1	22.5	0	1.10	1.30	129438.12	2012.4
2-16	-	-	30	0.1	22.5	0	1.10	1.30	129752.17	2105.04
3-1	-	-	30	0.1	22.5	0	1.10	1.30	130394.58	2004.09
3-2	-	-	30	0.1	22.5	0	1.10	1.30	129816.94	1794.49
3-3	-	-	30	0.1	22.5	0	1.10	1.30	130416.42	2002.06
3-4	-	-	30	0.1	22.5	0	1.10	1.30	129838.78	1790.74
3-5	-	-	30	0.1	22.5	0	1.10	1.30	131440.28	1571.95

3-6	-	-	30	0.1	22.5	0	1.10	1.30	130863.02	1939.66
3-7	-	-	30	0.1	22.5	0	1.10	1.30	131462.12	1579.77
3-8	-	-	30	0.1	22.5	0	1.10	1.30	130884.86	1923.48
3-9	-	-	30	0.1	22.5	0	1.10	1.30	130212.33	2019.41
3-10	-	-	30	0.1	22.5	0	1.10	1.30	129634.69	1823.66
3-11	-	-	30	0.1	22.5	0	1.10	1.30	130234.17	2017.55
3-12	-	-	30	0.1	22.5	0	1.10	1.30	129656.53	1820.07
3-13	-	-	30	0.1	22.5	0	1.10	1.30	131258.03	1520.9
3-14	-	-	30	0.1	22.5	0	1.10	1.30	130680.76	2092.38
3-15	-	-	30	0.1	22.5	0	1.10	1.30	131279.87	1527.37
3-16	-	-	30	0.1	22.5	0	1.10	1.30	130702.6	2077.26
4-1	-	-	30	0.1	22.5	0	1.10	1.30	131424.84	2093.34
4-2	-	-	30	0.1	22.5	0	1.10	1.30	131769.77	1965.07
4-3	-	-	30	0.1	22.5	0	1.10	1.30	131364.59	2091.59
4-4	-	-	30	0.1	22.5	0	1.10	1.30	131709.52	1959.16
4-5	-	-	30	0.1	22.5	0	1.10	1.30	129307.46	2036.83
4-6	-	-	30	0.1	22.5	0	1.10	1.30	129652.38	2092.16
4-7	-	-	30	0.1	22.5	0	1.10	1.30	129247.21	2030.86
4-8	-	-	30	0.1	22.5	0	1.10	1.30	129592.51	2094.9
4-9	-	-	30	0.1	22.5	0	1.10	1.30	131504.67	2095.66
4-10	-	-	30	0.1	22.5	0	1.10	1.30	131849.6	1973.6
4-11	-	-	30	0.1	22.5	0	1.10	1.30	131444.42	2094.05
4-12	-	-	30	0.1	22.5	0	1.10	1.30	131789.73	1967.7
4-13	-	-	30	0.1	22.5	0	1.10	1.30	129387.29	2044.51
4-14	-	-	30	0.1	22.5	0	1.10	1.30	129732.59	2088.15
4-15	-	-	30	0.1	22.5	0	1.10	1.30	129327.04	2038.97
4-16	-	-	30	0.1	22.5	0	1.10	1.30	129672.34	2091.17
5-1	-	-	30	0.1	22.5	0	1.10	1.30	130379.14	2005.14
5-2	-	-	30	0.1	22.5	0	1.10	1.30	129743.89	1782.81
5-3	-	-	30	0.1	22.5	0	1.10	1.30	130403.24	2003.02
5-4	-	-	30	0.1	22.5	0	1.10	1.30	129767.99	1778.81
5-5	-	-	30	0.1	22.5	0	1.10	1.30	131529.53	1348.61
5-6	-	-	30	0.1	22.5	0	1.10	1.30	130894.27	1645.72
5-7	-	-	30	0.1	22.5	0	1.10	1.30	131553.62	1345.44
5-8	-	-	30	0.1	22.5	0	1.10	1.30	130918.37	1621.9
5-9	-	-	30	0.1	22.5	0	1.10	1.30	130178.44	2021.07
5-10	-	-	30	0.1	22.5	0	1.10	1.30	129543.56	1813.96
5-11	-	-	30	0.1	22.5	0	1.10	1.30	130202.54	2019.14
5-12	-	-	30	0.1	22.5	0	1.10	1.30	129567.28	1810.13
5-13	-	-	30	0.1	22.5	0	1.10	1.30	131329.2	1364.22
5-14	-	-	30	0.1	22.5	0	1.10	1.30	130693.94	1888
5-15	-	-	30	0.1	22.5	0	1.10	1.30	131352.92	1361.73
5-16	-	-	30	0.1	22.5	0	1.10	1.30	130718.04	1848.77
6-1	-	-	30	0.1	22.5	0	1.10	1.30	131229.41	2103.35
6-2	-	-	30	0.1	22.5	0	1.10	1.30	131497.89	2042.38
6-3	-	-	30	0.1	22.5	0	1.10	1.30	131182.72	2102.64
6-4	-	-	30	0.1	22.5	0	1.10	1.30	131451.2	2038.44
6-5	-	-	30	0.1	22.5	0	1.10	1.30	129583.85	1958.38
6-6	-	-	30	0.1	22.5	0	1.10	1.30	129851.96	2087.26
6-7	-	-	30	0.1	22.5	0	1.10	1.30	129537.16	1950.64
6-8	-	-	30	0.1	22.5	0	1.10	1.30	129805.27	2083.52
6-9	-	-	30	0.1	22.5	0	1.10	1.30	131291.54	2104.19
6-10	-	-	30	0.1	22.5	0	1.10	1.30	131560.03	2047.91
6-11	-	-	30	0.1	22.5	0	1.10	1.30	131244.85	2103.61
6-12	-	-	30	0.1	22.5	0	1.10	1.30	131513.33	2044.07
6-13	-	-	30	0.1	22.5	0	1.10	1.30	129645.98	1968.63
6-14	-	-	30	0.1	22.5	0	1.10	1.30	129914.09	2091.7
6-15	-	-	30	0.1	22.5	0	1.10	1.30	129599.29	1961.24
6-16	-	-	30	0.1	22.5	0	1.10	1.30	129867.4	2088.52
7-1	-	-	30	0.1	22.5	0	1.10	1.30	130416.8	2002.36
7-2	-	-	30	0.1	22.5	0	1.10	1.30	129923.13	1813.1
7-3	-	-	30	0.1	22.5	0	1.10	1.30	130435.62	2000.47
7-4	-	-	30	0.1	22.5	0	1.10	1.30	129941.58	1809.75
7-5	-	-	30	0.1	22.5	0	1.10	1.30	131311.12	1926.92
7-6	-	-	30	0.1	22.5	0	1.10	1.30	130817.45	1901.58
7-7	-	-	30	0.1	22.5	0	1.10	1.30	131329.57	1933.62
7-8	-	-	30	0.1	22.5	0	1.10	1.30	130835.91	1924.67
7-9	-	-	30	0.1	22.5	0	1.10	1.30	130260.9	2016.64
7-10	-	-	30	0.1	22.5	0	1.10	1.30	129767.23	1839.13

7-11	-	-	30	0.1	22.5	0	1.10	1.30	130279.73	2014.9
7-12	-	-	30	0.1	22.5	0	1.10	1.30	129786.06	1835.92
7-13	-	-	30	0.1	22.5	0	1.10	1.30	131155.23	1876.75
7-14	-	-	30	0.1	22.5	0	1.10	1.30	130661.56	1695.61
7-15	-	-	30	0.1	22.5	0	1.10	1.30	131174.05	1883.18
7-16	-	-	30	0.1	22.5	0	1.10	1.30	130680.01	1687.9

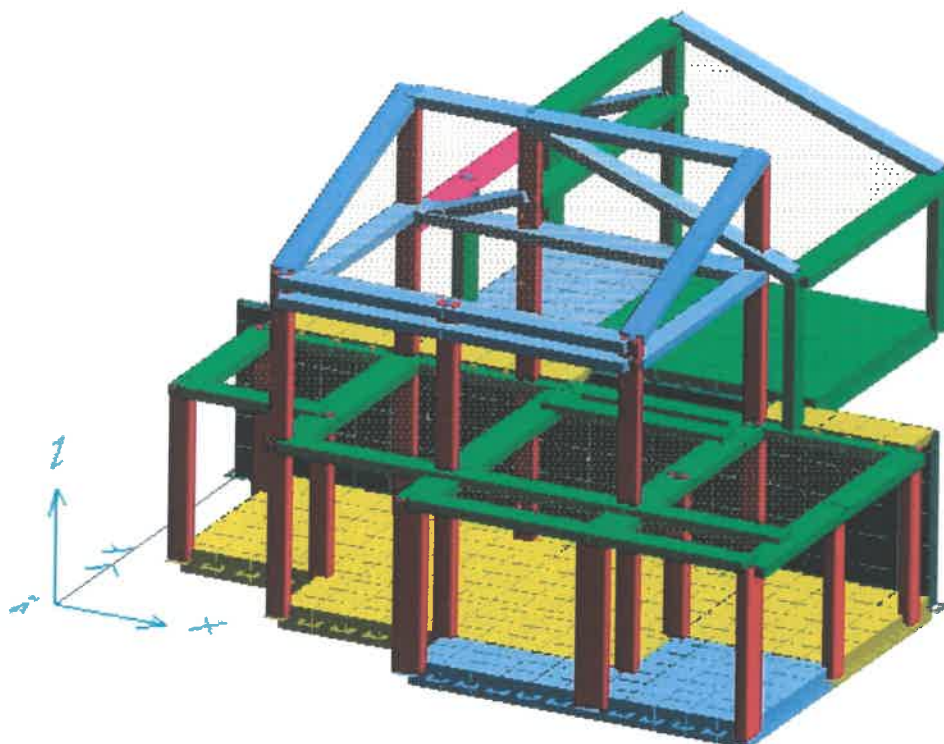
Segue il confronto fra la resistenza a scorrimento e l'azione applicata.

Caso	R_g [daN]	E_g [daN]	Verifica
1-1	204763.7	26776.3	SI (204763.7/26776.3 = 7.65 >= 1.0)
2-1	133443.1	35854.2	SI (133443.1/35854.2 = 3.72 >= 1.0)
2-2	133657.1	26934.8	SI (133657.1/26934.8 = 4.96 >= 1.0)
2-3	133387.2	36040.3	SI (133387.2/36040.3 = 3.70 >= 1.0)
2-4	133597.3	27176.7	SI (133597.3/27176.7 = 4.92 >= 1.0)
2-5	131430	27039.2	SI (131430/27039.2 = 4.86 >= 1.0)
2-6	131839.3	17864.1	SI (131839.3/17864.1 = 7.38 >= 1.0)
2-7	131368.6	26896.1	SI (131368.6/26896.1 = 4.88 >= 1.0)
2-8	131784.6	17638.5	SI (131784.6/17638.5 = 7.47 >= 1.0)
2-9	133517.5	35608.7	SI (133517.5/35608.7 = 3.75 >= 1.0)
2-10	133737.2	26609	SI (133737.2/26609 = 5.03 >= 1.0)
2-11	133461.7	35792	SI (133461.7/35792 = 3.73 >= 1.0)
2-12	133677.5	26848.5	SI (133677.5/26848.5 = 4.98 >= 1.0)
2-13	131511.5	27255.3	SI (131511.5/27255.3 = 4.83 >= 1.0)
2-14	131911.1	18192.5	SI (131911.1/18192.5 = 7.25 >= 1.0)
2-15	131450.5	27108.1	SI (131450.5/27108.1 = 4.85 >= 1.0)
2-16	131857.2	17963	SI (131857.2/17963 = 7.34 >= 1.0)
3-1	132398.7	41930.3	SI (132398.7/41930.3 = 3.16 >= 1.0)
3-2	131611.4	39376	SI (131611.4/39376 = 3.34 >= 1.0)
3-3	132418.5	41904.9	SI (132418.5/41904.9 = 3.16 >= 1.0)
3-4	131629.5	39382.4	SI (131629.5/39382.4 = 3.34 >= 1.0)
3-5	133012.2	8081.6	SI (133012.2/8081.6 = 16.46 >= 1.0)
3-6	132802.7	2383.4	SI (132802.7/2383.4 = 55.72 >= 1.0)
3-7	133041.9	7955.5	SI (133041.9/7955.5 = 16.72 >= 1.0)
3-8	132808.3	2508.7	SI (132808.3/2508.7 = 52.94 >= 1.0)
3-9	132231.7	42177.1	SI (132231.7/42177.1 = 3.14 >= 1.0)
3-10	131458.3	39371.7	SI (131458.3/39371.7 = 3.34 >= 1.0)
3-11	132251.7	42148.5	SI (132251.7/42148.5 = 3.14 >= 1.0)
3-12	131476.6	39374.5	SI (131476.6/39374.5 = 3.34 >= 1.0)
3-13	132778.9	9102.9	SI (132778.9/9102.9 = 14.59 >= 1.0)
3-14	132773.1	1461.2	SI (132773.1/1461.2 = 90.87 >= 1.0)
3-15	132807.2	8975.2	SI (132807.2/8975.2 = 14.80 >= 1.0)
3-16	132779.9	1569.2	SI (132779.9/1569.2 = 84.61 >= 1.0)
4-1	133518.2	37514.3	SI (133518.2/37514.3 = 3.56 >= 1.0)
4-2	133734.8	27984.7	SI (133734.8/27984.7 = 4.78 >= 1.0)
4-3	133456.2	37725.7	SI (133456.2/37725.7 = 3.54 >= 1.0)
4-4	133668.7	28261.2	SI (133668.7/28261.2 = 4.73 >= 1.0)
4-5	131344.3	28087	SI (131344.3/28087 = 4.68 >= 1.0)
4-6	131744.5	18543	SI (131744.5/18543 = 7.10 >= 1.0)
4-7	131278.1	27915.2	SI (131278.1/27915.2 = 4.70 >= 1.0)
4-8	131687.4	18272.1	SI (131687.4/18272.1 = 7.21 >= 1.0)
4-9	133600.3	37234.6	SI (133600.3/37234.6 = 3.59 >= 1.0)
4-10	133823.2	27611	SI (133823.2/27611 = 4.85 >= 1.0)
4-11	133538.5	37443	SI (133538.5/37443 = 3.57 >= 1.0)
4-12	133757.4	27885	SI (133757.4/27885 = 4.80 >= 1.0)
4-13	131431.8	28344.5	SI (131431.8/28344.5 = 4.64 >= 1.0)
4-14	131820.7	18934	SI (131820.7/18934 = 6.96 >= 1.0)
4-15	131366	28168.1	SI (131366/28168.1 = 4.66 >= 1.0)
4-16	131763.5	18659.6	SI (131763.5/18659.6 = 7.06 >= 1.0)
5-1	132384.3	43995.3	SI (132384.3/43995.3 = 3.01 >= 1.0)
5-2	131526.7	41231.2	SI (131526.7/41231.2 = 3.19 >= 1.0)
5-3	132406.3	43967.2	SI (132406.3/43967.2 = 3.01 >= 1.0)
5-4	131546.8	41239.8	SI (131546.8/41239.8 = 3.19 >= 1.0)
5-5	132878.1	8093	SI (132878.1/8093 = 16.42 >= 1.0)
5-6	132540	3009.9	SI (132540/3009.9 = 44.04 >= 1.0)
5-7	132899.1	7946.6	SI (132899.1/7946.6 = 16.72 >= 1.0)
5-8	132540.3	3146.4	SI (132540.3/3146.4 = 42.12 >= 1.0)
5-9	132199.5	44269.3	SI (132199.5/44269.3 = 2.99 >= 1.0)
5-10	131357.5	41214.9	SI (131357.5/41214.9 = 3.19 >= 1.0)

5-11	132221.7	44237.5	SI (132221.7/44237.5 = 2.99 >= 1.0)
5-12	131377.4	41219.4	SI (131377.4/41219.4 = 3.19 >= 1.0)
5-13	132693.4	9262.9	SI (132693.4/9262.9 = 14.33 >= 1.0)
5-14	132581.9	1959.1	SI (132581.9/1959.1 = 67.68 >= 1.0)
5-15	132714.7	9116.3	SI (132714.7/9116.3 = 14.56 >= 1.0)
5-16	132566.8	2081.6	SI (132566.8/2081.6 = 63.69 >= 1.0)
6-1	133332.8	33487.1	SI (133332.8/33487.1 = 3.98 >= 1.0)
6-2	133540.3	25528.7	SI (133540.3/25528.7 = 5.23 >= 1.0)
6-3	133285.4	33637.4	SI (133285.4/33637.4 = 3.96 >= 1.0)
6-4	133489.6	25721.5	SI (133489.6/25721.5 = 5.19 >= 1.0)
6-5	131542.2	25633	SI (131542.2/25633 = 5.13 >= 1.0)
6-6	131939.2	17193.3	SI (131939.2/17193.3 = 7.67 >= 1.0)
6-7	131487.8	25528.8	SI (131487.8/25528.8 = 5.15 >= 1.0)
6-8	131888.8	17031.4	SI (131888.8/17031.4 = 7.74 >= 1.0)
6-9	133395.7	33289.4	SI (133395.7/33289.4 = 4.01 >= 1.0)
6-10	133607.9	25270.4	SI (133607.9/25270.4 = 5.29 >= 1.0)
6-11	133348.5	33437.5	SI (133348.5/33437.5 = 3.99 >= 1.0)
6-12	133557.4	25461	SI (133557.4/25461 = 5.25 >= 1.0)
6-13	131614.6	25792.6	SI (131614.6/25792.6 = 5.10 >= 1.0)
6-14	132005.8	17432.5	SI (132005.8/17432.5 = 7.57 >= 1.0)
6-15	131560.5	25685	SI (131560.5/25685 = 5.12 >= 1.0)
6-16	131955.9	17266.8	SI (131955.9/17266.8 = 7.64 >= 1.0)
7-1	132419.2	38936.2	SI (132419.2/38936.2 = 3.40 >= 1.0)
7-2	131736.2	36694.6	SI (131736.2/36694.6 = 3.59 >= 1.0)
7-3	132436.1	38914.8	SI (132436.1/38914.8 = 3.40 >= 1.0)
7-4	131751.3	36698.1	SI (131751.3/36698.1 = 3.59 >= 1.0)
7-5	133238	8811.3	SI (133238/8811.3 = 15.12 >= 1.0)
7-6	132719	4041.2	SI (132719/4041.2 = 32.84 >= 1.0)
7-7	133263.2	8720.6	SI (133263.2/8720.6 = 15.28 >= 1.0)
7-8	132760.6	4082.6	SI (132760.6/4082.6 = 32.52 >= 1.0)
7-9	132277.5	39144	SI (132277.5/39144 = 3.38 >= 1.0)
7-10	131606.4	36705.5	SI (131606.4/36705.5 = 3.59 >= 1.0)
7-11	132294.6	39120.1	SI (132294.6/39120.1 = 3.38 >= 1.0)
7-12	131622	36706.3	SI (131622/36706.3 = 3.59 >= 1.0)
7-13	133032	9566.5	SI (133032/9566.5 = 13.91 >= 1.0)
7-14	132357.2	3845.6	SI (132357.2/3845.6 = 34.42 >= 1.0)
7-15	133057.2	9472	SI (133057.2/9472 = 14.05 >= 1.0)
7-16	132367.9	3862.2	SI (132367.9/3862.2 = 34.27 >= 1.0)

6. VERIFICA DELLE FONDAZIONI DEGLI EDIFICI DI TIPOLOGIA B

Il modello agli elementi finiti della tipologia di edificio considerato in studio è rappresentato nella figura sottostante.



6.1 DATI STRUTTURA

*** DATI STRUTTURA

Unita` di misura :
 LUNGHEZZE : cm
 SUPERFICI : cm²
 DATI SEZIONALI : cm
 ANGOLI : gradi
 FORZE : daN
 MOMENTI : daNm
 CARICHI LINEARI : daN/m
 CARICHI SUPERFIC. : daN/m²
 TENSIONI : daN/cm²
 PESI DI VOLUME : daN/m³
 COEFF. DI WINKLER : daN/cm³
 RIGIDEZZE VINCOL. : daN/cm - daNm/rad

PROPRIETA` ASTE		Base		Altezza		Area		Area tag. Y		Area tag. Z		num.=
Nome	Materiale	Kw vertic.	Kw orizz.	J tors.	J fless. Y	J fless. Y	J fless. Z	J fless. Y	J fless. Z	J fless. Y	J fless. Z	
1	1	25.00	40.00	1.00000E+03	8.33333E+02	8.33333E+02	8.33333E+02	8.33333E+02	8.33333E+02	8.33333E+02	8.33333E+02	5
		0.000000	0.000000	1.27344E+05	5.20833E+04	1.33333E+05	1.33333E+05	1.33333E+05	1.33333E+05	1.33333E+05	1.33333E+05	
2	1	70.00	22.00	1.54000E+03	1.28333E+03	1.28333E+03	1.28333E+03	1.28333E+03	1.28333E+03	1.28333E+03	1.28333E+03	
		0.000000	0.000000	1.99298E+05	6.28833E+05	6.21133E+04	6.21133E+04	6.21133E+04	6.21133E+04	6.21133E+04	6.21133E+04	
3	1	60.00	22.00	1.32000E+03	1.10000E+03	1.10000E+03	1.10000E+03	1.10000E+03	1.10000E+03	1.10000E+03	1.10000E+03	
		0.000000	0.000000	1.63839E+05	3.96000E+05	5.32400E+04	5.32400E+04	5.32400E+04	5.32400E+04	5.32400E+04	5.32400E+04	
4	1	50.00	22.00	1.10000E+03	9.16667E+02	9.16667E+02	9.16667E+02	9.16667E+02	9.16667E+02	9.16667E+02	9.16667E+02	
		0.000000	0.000000	1.28425E+05	2.29167E+05	4.43667E+04	4.43667E+04	4.43667E+04	4.43667E+04	4.43667E+04	4.43667E+04	
5	1	25.00	60.00	1.50000E+03	1.25000E+03	1.25000E+03	1.25000E+03	1.25000E+03	1.25000E+03	1.25000E+03	1.25000E+03	
		0.000000	0.000000	2.30673E+05	7.81250E+04	4.50000E+05	4.50000E+05	4.50000E+05	4.50000E+05	4.50000E+05	4.50000E+05	

PROPRIETA` GUSCI		Sp.membr.		Sp. piastra		Kw		num.=
Nome	Materiale							
1	1	50.00	50.00	5.000000				3
2	1	30.00	30.00	0.000000				

3	1	20.00	20.00	0.000000		
MATERIALI----- ----- ----- ----- ----- num.= 1						
Nome Mod. elast.		Coeff. nu	Mod. tang.	Peso spec.	Dil. te.	
1 3.00000E+05		1.50000E-01	1.30000E+05	2.50000E+03	1.00000E-05	
PESI PROPRI GUSCI----- ----- ----- ----- -----						
Cond. Nome Carichi		Gusci				
1 1871-2321		1-410, 418-458				
CONDIZIONI DI CARICO----- ----- ----- ----- num.= 8						
Nome						
1 Peso proprio_____ N. carichi: 581						
Lista carichi: 1037-1069, 1136-1232, 1871-2321						
2 Permanente_____ N. carichi: 352						
Lista carichi: 1070-1102, 1233-1551						
3 A:Var_abitazione____ N. carichi: 342						
Lista carichi: 1103-1125, 1552-1870						
4 Neve(<1000m_slm)____ N. carichi: 10						
Lista carichi: 1126-1135						
5 _____ N. carichi: 282						
Lista carichi: 1-282						
6 _____ N. carichi: 282						
Lista carichi: 283-564						
7 Torcente_add._X_____ N. carichi: 190						
Lista carichi: 565-754						
8 Torcente_add._Y_____ N. carichi: 282						
Lista carichi: 755-1036						
RISULTANTI DEI CARICHI (punto di applicazione nell'origine degli assi):						
cond.	FX	FY	FZ	MX	MY	MZ
1	0.000000E+00	0.000000E+00	-3.205827E+05	-1.871900E+06	2.550264E+06	0.000000E+00
2	0.000000E+00	0.000000E+00	-8.552416E+04	-4.553265E+05	6.891574E+05	0.000000E+00
3	0.000000E+00	0.000000E+00	-6.145220E+04	-2.960258E+05	5.125108E+05	0.000000E+00
4	0.000000E+00	0.000000E+00	-8.352000E+03	-5.903100E+04	6.451200E+04	0.000000E+00
5	4.257100E+04	0.000000E+00	0.000000E+00	0.000000E+00	2.297720E+05	-2.747638E+05
6	0.000000E+00	4.257100E+04	0.000000E+00	-2.297720E+05	0.000000E+00	3.296991E+05
7	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	-2.125345E+02	-2.194885E+04
8	0.000000E+00	0.000000E+00	0.000000E+00	7.427443E+01	0.000000E+00	2.244229E+04

6.2 DATI ANALISI SISMICA

Analisi sismica - Statica lineare - (NTC 2018)

DATI PROGETTO

Edificio sito in località LAIGUEGLIA (long. 8.157 lat. 43.979300)

Categoria del suolo di fondazione = B

Coeff. di amplificazione stratigrafica $S_s = 1.200$

Coeff. di amplificazione topografica $S_T = 1.200$

$S = 1.440$

Vita nominale dell'opera $V_N = 50$ anni

Coefficiente d'uso $C_U = 1.0$

Periodo di riferimento $V_R = 50.0$

PVR : probabilità di superamento in $V_R = 10 \%$

Tempo di ritorno = 474

Coeff. di smorzamento viscoso = 5.0

Valori risultanti per :

ag 1.385 [g/10]

Fo 2.420

TC* 0.280

Edificio con struttura in cem. armato :

Fattore di comportamento $q = 3.120$

$q = q_0 * K_R * K_W$ dove :

$q_0 = 3.00 * 1.3$ (A telaio con più piani e più campate) (Classe di duttilità "B" (bassa))

$K_R = 0.8$ (Edifici non regolari in altezza)

$K_W = 1.00$

Rapporto spettro di esercizio / spettro di progetto = 0.855

Coeff. λ = 1.0000

$S_d = 0.155$

Numero condizioni generanti carichi sismici : 3

Cond. 001 : Peso proprio _____ con coeff. 1.000

Cond. 002 : Permanente _____ con coeff. 1.000

Cond. 003 : A:Var_abitazione _____ con coeff. 0.300

Condizioni di carico sismico generate:

Cond. 005 : Sisma X

Cond. 006 : Sisma Y

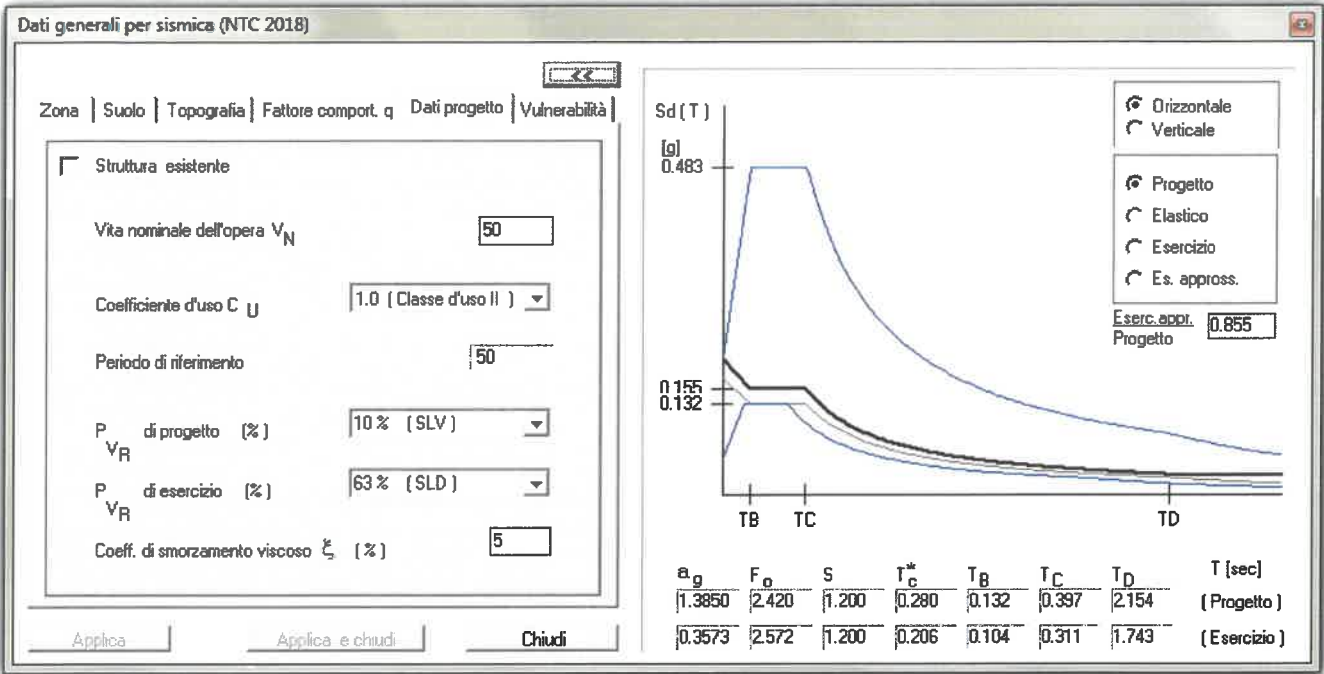
Cond. 007 : Torcente add. X

Cond. 008 : Torcente add. Y

Carichi sismici :

Piani	Pesi	C. distr.	Forze piano	Torc. piano X	Torc. piano Y	Bar. X	Bar. Y
cm	daN		daN	daNm	daNm	cm	cm
61.7	6637	0.0227	150	0	108	717.5	750.0
123.3	6637	0.0453	301	0	216	717.5	750.0
185.0	6637	0.0680	451	0	324	717.5	750.0
246.7	6637	0.0906	602	0	432	717.5	750.0
308.3	155142	0.1133	17576	10897	12611	804.8	660.8
610.0	40162	0.2241	9002	4928	3241	687.8	493.7
672.6	29915	0.2471	7393	4047	2957	892.8	631.1
844.0	22885	0.3101	7097	2076	2555	698.0	792.4

Di seguito si rappresenta lo spettro di risposta elastica.



6.3 DESCRIZIONE CASI DI CARICO

NOME	DESCRIZIONE	VERIFICA	TIPO	CONDIZ. INSERITE			CASI INSERITI	
				Num.	Coeff.	Segno	Num.	Coeff.
1	SLU SENZA SISMA	S.L.U.	somma	1	1.300	+		
				2	1.500	+		
				3	1.500	+		
				4	1.500	+		
2	SISMAX SLU	nessuna	somma	5	1.000	±		
				7	1.000	±		
3	SISMAY SLU	nessuna	somma	6	1.000	±		
				8	1.000	±		
4	SLU con SISMAX PRINC	S.L.U.	somma	1	1.000	+	2	1.000
				2	1.000	+	3	0.300
				3	0.300	+		
5	SLU con SISMAY PRINC	S.L.U.	somma	1	1.000	+	3	1.000
				2	1.000	+	2	0.300
				3	0.300	+		
6	SLD con SISMAX PRINC	S.L.Danno	somma	1	1.000	+	2	0.855
				2	1.000	+	3	0.257
				3	0.300	+		
7	SLD con SISMAY PRINC	S.L.Danno	somma	1	1.000	+	3	0.855
				2	1.000	+	2	0.257
				3	0.300	+		
8	SLU FON con SISMAX P	SLU_FON	somma	1	1.000	+	2	1.100
				2	1.000	+	3	0.330
				3	0.300	+		
9	SLU FON con SISMAY P	SLU_FON	somma	1	1.000	+	3	1.100
				2	1.000	+	2	0.330
				3	0.300	+		
10	SLUGeo	SLU_GEO	somma	1	1.000	+		
				2	1.300	+		
				3	1.300	+		
				4	1.300	+		
11	SLUEqu	SLU_EQU	somma	1	0.900	+		
				2	1.500	+		
				3	1.500	+		
				4	1.500	+		
12	Rara	Rara	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	1.000	+		
13	Frequente	Freq.	somma	1	1.000	+		
				2	1.000	+		
				3	0.500	+		
				4	0.200	+		
14	Quasi Perm	QuasiPerm.	somma	1	1.000	+		
				2	1.000	+		
				3	0.300	+		

6.4 VERIFICA STRUTTURALE PIASTRA DI FONDAZIONE

MACROGUSCIO fondazione

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

CASI DI CARICO: ->

Nome	Descrizione
1	SLU SENZA SISMA
4	SLU con SISMAX PRINC
5	SLU con SISMAX PRINC
11	SLUEqu

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	249	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	5	cm
copriferro superiore (asse armatura):	5	cm
moltiplicatore sollecitazioni	: 1	

LEGENDA:

spess	= spessore guscio. Verifica effettuata su sezione BxH, con B=1 cm e H="spess" cm
Af	= area disposta al lembo teso, in cm2 al metro
Afc	= area disposta al lembo compresso, in cm2 al metro
Mom	= momento flettente [kgfm/m]
Nor	= sforzo normale [daN]
epsC	= deformazione cls [per mille]
epsF	= deformazione acciaio [per mille]

<- L'armatura è sufficiente se le deformazioni dei materiali sono ovunque minori delle corrispondenti deformazioni ultime.

GUSC	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
1	50	5.65	5.65	2718.	0.	0.11	0.53	5.65	5.65	1213.	0.	0.05	0.24
2	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	556.	0.	0.02	0.11
3	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	178.	0.	0.01	0.03
4	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3.	0.	0.00	0.00
5	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
6	50	5.65	5.65	1945.	0.	0.08	0.38	5.65	5.65	0.	0.	0.00	0.00
7	50	5.65	5.65	3904.	0.	0.16	0.76	5.65	5.65	1874.	0.	0.07	0.37
8	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1408.	0.	0.06	0.27
9	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	819.	0.	0.03	0.16
10	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	248.	0.	0.01	0.05
11	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
12	50	5.65	5.65	2124.	0.	0.08	0.41	5.65	5.65	0.	0.	0.00	0.00
13	50	5.65	5.65	4071.	0.	0.16	0.79	5.65	5.65	6516.	0.	0.26	1.27
14	50	5.65	5.65	116.	0.	0.00	0.02	5.65	5.65	4993.	0.	0.20	0.97
15	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2565.	0.	0.10	0.50
16	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	938.	0.	0.04	0.18
17	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1016.	0.	0.04	0.20
18	50	5.65	5.65	1970.	0.	0.08	0.38	5.65	5.65	1027.	0.	0.04	0.20
19	50	5.65	5.65	2101.	0.	0.08	0.41	5.65	5.65	0.	0.	0.00	0.00
20	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
21	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
22	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
23	50	5.65	5.65	586.	0.	0.02	0.11	5.65	5.65	326.	0.	0.01	0.06
24	50	5.65	5.65	2464.	0.	0.10	0.48	5.65	5.65	605.	0.	0.02	0.12
25	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
26	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
27	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
28	50	5.65	5.65	44.	0.	0.00	0.01	5.65	5.65	0.	0.	0.00	0.00
29	50	5.65	5.65	2379.	0.	0.10	0.46	5.65	5.65	732.	0.	0.03	0.14
30	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
31	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
32	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
33	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
34	50	5.65	5.65	3720.	0.	0.15	0.73	5.65	5.65	1976.	0.	0.08	0.39
35	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	947.	0.	0.04	0.18
36	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	64.	0.	0.00	0.01
37	50	5.65	5.65	201.	0.	0.01	0.04	5.65	5.65	1277.	0.	0.05	0.25
38	50	5.65	5.65	4643.	0.	0.19	0.91	5.65	5.65	3019.	0.	0.12	0.59
39	50	5.65	5.65	3116.	0.	0.12	0.61	5.65	5.65	0.	0.	0.00	0.00
40	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
41	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
42	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
43	50	5.65	5.65	3232.	0.	0.13	0.63	5.65	5.65	0.	0.	0.00	0.00
44	50	5.65	5.65	2438.	0.	0.10	0.48	5.65	5.65	0.	0.	0.00	0.00
45	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
46	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
47	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
48	50	5.65	5.65	1994.	0.	0.08	0.39	5.65	5.65	0.	0.	0.00	0.00
49	50	5.65	5.65	2152.	0.	0.09	0.42	5.65	5.65	724.	0.	0.03	0.14
50	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	201.	0.	0.01	0.04
51	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
52	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
53	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
54	50	5.65	5.65	2283.	0.	0.09	0.45	5.65	5.65	0.	0.	0.00	0.00
55	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
56	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
57	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
58	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
59	50	5.65	5.65	1874.	0.	0.07	0.37	5.65	5.65	0.	0.	0.00	0.00
60	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
61	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
62	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
63	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00

64	50	5.65	5.65	4333.	0.	0.17	0.85	5.65	5.65	4094.	0.	0.16	0.80
65	50	5.65	5.65	571.	0.	0.02	0.11	5.65	5.65	4014.	0.	0.16	0.78
66	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2669.	0.	0.11	0.52
67	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	751.	0.	0.03	0.15
68	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	786.	0.	0.03	0.15
69	50	5.65	5.65	2022.	0.	0.08	0.39	5.65	5.65	934.	0.	0.04	0.18
70	50	5.65	5.65	4472.	0.	0.18	0.87	5.65	5.65	118.	0.	0.00	0.02
71	50	5.65	5.65	989.	0.	0.04	0.19	5.65	5.65	777.	0.	0.03	0.15
72	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	758.	0.	0.03	0.15
73	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
74	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
75	50	5.65	5.65	2138.	0.	0.09	0.42	5.65	5.65	0.	0.	0.00	0.00
76	50	5.65	5.65	2854.	0.	0.11	0.56	5.65	5.65	0.	0.	0.00	0.00
77	50	5.65	5.65	456.	0.	0.02	0.09	5.65	5.65	0.	0.	0.00	0.00
78	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
79	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
80	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
81	50	5.65	5.65	1702.	0.	0.07	0.33	5.65	5.65	0.	0.	0.00	0.00
82	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
83	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
84	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	264.	0.	0.01	0.05
85	50	5.65	5.65	2392.	0.	0.10	0.47	5.65	5.65	0.	0.	0.00	0.00
86	50	5.65	5.65	1942.	0.	0.08	0.38	5.65	5.65	0.	0.	0.00	0.00
87	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
88	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
89	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
90	50	5.65	5.65	528.	0.	0.02	0.10	5.65	5.65	0.	0.	0.00	0.00
91	50	5.65	5.65	1475.	0.	0.06	0.29	5.65	5.65	0.	0.	0.00	0.00
92	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
93	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
94	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
95	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	208.	0.	0.01	0.04
96	50	5.65	5.65	461.	0.	0.02	0.09	5.65	5.65	0.	0.	0.00	0.00
97	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
98	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
99	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
100	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
101	50	5.65	5.65	1412.	0.	0.06	0.28	5.65	5.65	0.	0.	0.00	0.00
102	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
103	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
104	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
105	50	5.65	5.65	1866.	0.	0.07	0.36	5.65	5.65	0.	0.	0.00	0.00
106	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
107	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
108	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
109	50	5.65	5.65	1519.	0.	0.06	0.30	5.65	5.65	0.	0.	0.00	0.00
110	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
111	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
112	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
113	50	5.65	5.65	960.	0.	0.04	0.19	5.65	5.65	0.	0.	0.00	0.00
114	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
115	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
116	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
117	50	5.65	5.65	1058.	0.	0.04	0.21	5.65	5.65	0.	0.	0.00	0.00
118	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
119	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
120	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	243.	0.	0.01	0.05
121	50	5.65	5.65	1301.	0.	0.05	0.25	5.65	5.65	914.	0.	0.04	0.18
122	50	5.65	5.65	1730.	0.	0.07	0.34	5.65	5.65	0.	0.	0.00	0.00
123	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
124	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
125	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
126	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
127	50	5.65	5.65	1279.	0.	0.05	0.25	5.65	5.65	0.	0.	0.00	0.00
128	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
129	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
130	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
131	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
132	50	5.65	5.65	932.	0.	0.04	0.18	5.65	5.65	0.	0.	0.00	0.00
133	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
134	50	5.65	5.65	123.	0.	0.00	0.02	5.65	5.65	0.	0.	0.00	0.00
135	50	5.65	5.65	1164.	0.	0.05	0.23	5.65	5.65	0.	0.	0.00	0.00
136	50	5.65	5.65	516.	0.	0.02	0.10	5.65	5.65	0.	0.	0.00	0.00
137	50	5.65	5.65	1099.	0.	0.04	0.21	5.65	5.65	0.	0.	0.00	0.00
138	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
139	50	5.65	5.65	699.	0.	0.03	0.14	5.65	5.65	0.	0.	0.00	0.00
140	50	5.65	5.65	2927.	0.	0.12	0.57	5.65	5.65	0.	0.	0.00	0.00
141	50	5.65	5.65	1186.	0.	0.05	0.23	5.65	5.65	0.	0.	0.00	0.00
142	50	5.65	5.65	1381.	0.	0.06	0.27	5.65	5.65	1512.	0.	0.06	0.30
143	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2321.	0.	0.09	0.45
144	50	5.65	5.65	773.	0.	0.03	0.15	5.65	5.65	3005.	0.	0.12	0.59
145	50	5.65	5.65	3361.	0.	0.13	0.66	5.65	5.65	3294.	0.	0.13	0.64
146	50	5.65	5.65	2484.	0.	0.10	0.48	5.65	5.65	2817.	0.	0.11	0.55
147	50	5.65	5.65	1274.	0.	0.05	0.25	5.65	5.65	0.	0.	0.00	0.00
148	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
149	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
150	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
151	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
152	50	5.65	5.65	1191.	0.	0.05	0.23	5.65	5.65	0.	0.	0.00	0.00
153	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
154	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
155	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
156	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
157	50	5.65	5.65	1374.	0.	0.05	0.27	5.65	5.65	0.	0.	0.00	0.00
158	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
159	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
160	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
161	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
162	50	5.65	5.65	1962.	0.	0.08	0.38	5.65	5.65	0.	0.	0.00	0.00
163	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
164	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
165	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
166	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
167	50	5.65	5.65	2660.	0.	0.11	0.52	5.65	5.65	1647.	0.	0.07	0.32

168	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1152.	0.	0.05	0.22
169	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	235.	0.	0.01	0.05
170	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
171	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	12.	0.	0.00	0.00
172	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
173	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
174	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
175	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
176	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
177	50	5.65	5.65	1253.	0.	0.05	0.24	5.65	5.65	0.	0.	0.00	0.00
178	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
179	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
180	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
181	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
182	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
183	50	5.65	5.65	1197.	0.	0.05	0.23	5.65	5.65	0.	0.	0.00	0.00
184	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
185	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
186	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
187	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
188	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
189	50	5.65	5.65	1409.	0.	0.06	0.27	5.65	5.65	0.	0.	0.00	0.00
190	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
191	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
192	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
193	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
194	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
195	50	5.65	5.65	1991.	0.	0.08	0.39	5.65	5.65	0.	0.	0.00	0.00
196	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1156.	0.	0.05	0.23
197	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
198	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
199	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
200	50	5.65	5.65	106.	0.	0.00	0.02	5.65	5.65	945.	0.	0.04	0.18
201	50	5.65	5.65	2792.	0.	0.11	0.55	5.65	5.65	1602.	0.	0.06	0.31
439	50	5.65	5.65	183.	0.	0.01	0.04	5.65	5.65	1129.	0.	0.05	0.22
440	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	609.	0.	0.02	0.12
441	50	5.65	5.65	57.	0.	0.00	0.01	5.65	5.65	1155.	0.	0.05	0.23
442	50	5.65	5.65	3173.	0.	0.13	0.62	5.65	5.65	1817.	0.	0.07	0.35
443	50	5.65	5.65	3393.	0.	0.14	0.66	5.65	5.65	3283.	0.	0.13	0.64
444	50	5.65	5.65	4225.	0.	0.17	0.82	5.65	5.65	3410.	0.	0.14	0.67
445	50	5.65	5.65	652.	0.	0.03	0.13	5.65	5.65	2866.	0.	0.11	0.56
446	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2174.	0.	0.09	0.42
447	50	5.65	5.65	1657.	0.	0.07	0.32	5.65	5.65	1843.	0.	0.07	0.36
448	50	5.65	5.65	1832.	0.	0.07	0.36	5.65	5.65	1451.	0.	0.06	0.28
449	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	997.	0.	0.04	0.19
450	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	782.	0.	0.03	0.15
451	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1300.	0.	0.05	0.25
452	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	731.	0.	0.03	0.14
453	50	5.65	5.65	3487.	0.	0.14	0.68	5.65	5.65	2035.	0.	0.08	0.40
454	50	5.65	5.65	561.	0.	0.02	0.11	5.65	5.65	1667.	0.	0.07	0.33
455	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1046.	0.	0.04	0.20
456	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	258.	0.	0.01	0.05
457	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1298.	0.	0.05	0.25
458	50	5.65	5.65	59.	0.	0.00	0.01	5.65	5.65	2261.	0.	0.09	0.44

		SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
1	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	460.	0.	0.02	0.09
2	50	5.65	5.65	2718.	0.	0.11	0.53	5.65	5.65	294.	0.	0.01	0.06
3	50	5.65	5.65	4095.	0.	0.16	0.80	5.65	5.65	162.	0.	0.01	0.03
4	50	5.65	5.65	3974.	0.	0.16	0.78	5.65	5.65	221.	0.	0.01	0.04
5	50	5.65	5.65	2736.	0.	0.11	0.53	5.65	5.65	394.	0.	0.02	0.08
6	50	5.65	5.65	361.	0.	0.01	0.07	5.65	5.65	595.	0.	0.02	0.12
7	50	5.65	5.65	68.	0.	0.00	0.01	5.65	5.65	0.	0.	0.00	0.00
8	50	5.65	5.65	3251.	0.	0.13	0.63	5.65	5.65	0.	0.	0.00	0.00
9	50	5.65	5.65	4264.	0.	0.17	0.83	5.65	5.65	0.	0.	0.00	0.00
10	50	5.65	5.65	4054.	0.	0.16	0.79	5.65	5.65	468.	0.	0.02	0.09
11	50	5.65	5.65	2748.	0.	0.11	0.54	5.65	5.65	778.	0.	0.03	0.15
12	50	5.65	5.65	344.	0.	0.01	0.07	5.65	5.65	825.	0.	0.03	0.16
13	50	5.65	5.65	445.	0.	0.02	0.09	5.65	5.65	0.	0.	0.00	0.00
14	50	5.65	5.65	3539.	0.	0.14	0.69	5.65	5.65	0.	0.	0.00	0.00
15	50	5.65	5.65	4315.	0.	0.17	0.84	5.65	5.65	0.	0.	0.00	0.00
16	50	5.65	5.65	4050.	0.	0.16	0.79	5.65	5.65	397.	0.	0.02	0.08
17	50	5.65	5.65	2680.	0.	0.11	0.52	5.65	5.65	470.	0.	0.02	0.09
18	50	5.65	5.65	294.	0.	0.01	0.06	5.65	5.65	455.	0.	0.02	0.09
19	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	608.	0.	0.02	0.12
20	50	5.65	5.65	1619.	0.	0.06	0.32	5.65	5.65	730.	0.	0.03	0.14
21	50	5.65	5.65	2800.	0.	0.11	0.55	5.65	5.65	992.	0.	0.04	0.19
22	50	5.65	5.65	3094.	0.	0.12	0.60	5.65	5.65	1210.	0.	0.05	0.24
23	50	5.65	5.65	2379.	0.	0.10	0.46	5.65	5.65	1476.	0.	0.06	0.29
24	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	869.	0.	0.03	0.17
25	50	5.65	5.65	1611.	0.	0.06	0.31	5.65	5.65	1278.	0.	0.05	0.25
26	50	5.65	5.65	2554.	0.	0.10	0.50	5.65	5.65	1757.	0.	0.07	0.34
27	50	5.65	5.65	2806.	0.	0.11	0.55	5.65	5.65	2136.	0.	0.09	0.42
28	50	5.65	5.65	2040.	0.	0.08	0.40	5.65	5.65	2503.	0.	0.10	0.49
29	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	487.	0.	0.02	0.10
30	50	5.65	5.65	1649.	0.	0.07	0.32	5.65	5.65	829.	0.	0.03	0.16
31	50	5.65	5.65	2321.	0.	0.09	0.45	5.65	5.65	1752.	0.	0.07	0.34
32	50	5.65	5.65	2530.	0.	0.10	0.49	5.65	5.65	2301.	0.	0.09	0.45
33	50	5.65	5.65	1723.	0.	0.07	0.34	5.65	5.65	2728.	0.	0.11	0.53
34	50	5.65	5.65	3508.	0.	0.14	0.68	5.65	5.65	3874.	0.	0.15	0.76
35	50	5.65	5.65	4276.	0.	0.17	0.83	5.65	5.65	3161.	0.	0.13	0.62
36	50	5.65	5.65	3364.	0.	0.13	0.66	5.65	5.65	2324.	0.	0.09	0.45
37	50	5.65	5.65	1972.	0.	0.08	0.38	5.65	5.65	1618.	0.	0.06	0.32
38	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1590.	0.	0.06	0.31
39	50	5.65	5.65	2618.	0.	0.10	0.51	5.65	5.65	5912.	0.	0.24	1.15
40	50	5.65	5.65	3666.	0.	0.15	0.72	5.65	5.65	5131.	0.	0.20	1.00
41	50	5.65	5.65	3028.	0.	0.12	0.59	5.65	5.65	4296.	0.	0.17	0.84
42	50	5.65	5.65	1747.	0.	0.07	0.34	5.65	5.65	3677.	0.	0.15	0.72
43	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3949.	0.	0.16	0.77
44	50	5.65	5.65	2050.	0.	0.08	0.40	5.65	5.65	6699.	0.	0.27	1.31
45	50	5.65	5.65	3277.	0.	0.13	0.64	5.65	5.65	6098.	0.	0.24	1.19
46	50	5.65	5.65	2710.	0.	0.11	0.53	5.65	5.65	5406.	0.	0.22	1.06
47	50	5.65	5.65	1519.	0.	0.06	0.30	5.65	5.65	5035.	0.	0.20	0.98

48	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	5187.	0.	0.21	1.01
49	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	1250.	0.	0.05	0.24
50	50	5.65	5.65	1636.	0.	0.07	0.32	5.65	5.65	1542.	0.	0.06	0.30
51	50	5.65	5.65	2302.	0.	0.09	0.45	5.65	5.65	2015.	0.	0.08	0.39
52	50	5.65	5.65	2134.	0.	0.09	0.42	5.65	5.65	2320.	0.	0.09	0.45
53	50	5.65	5.65	1144.	0.	0.05	0.22	5.65	5.65	2541.	0.	0.10	0.50
54	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2321.	0.	0.09	0.45
55	50	5.65	5.65	1710.	0.	0.07	0.33	5.65	5.65	2417.	0.	0.10	0.47
56	50	5.65	5.65	2367.	0.	0.09	0.46	5.65	5.65	2579.	0.	0.10	0.50
57	50	5.65	5.65	2306.	0.	0.09	0.45	5.65	5.65	2728.	0.	0.11	0.53
58	50	5.65	5.65	1528.	0.	0.06	0.30	5.65	5.65	2903.	0.	0.12	0.57
59	50	5.65	5.65	141.	0.	0.01	0.03	5.65	5.65	2488.	0.	0.10	0.49
60	50	5.65	5.65	1688.	0.	0.07	0.33	5.65	5.65	2339.	0.	0.09	0.46
61	50	5.65	5.65	2346.	0.	0.09	0.46	5.65	5.65	2318.	0.	0.09	0.45
62	50	5.65	5.65	2290.	0.	0.09	0.45	5.65	5.65	2395.	0.	0.10	0.47
63	50	5.65	5.65	1542.	0.	0.06	0.30	5.65	5.65	2439.	0.	0.10	0.48
64	50	5.65	5.65	1272.	0.	0.05	0.25	5.65	5.65	1825.	0.	0.07	0.36
65	50	5.65	5.65	3746.	0.	0.15	0.73	5.65	5.65	1944.	0.	0.08	0.38
66	50	5.65	5.65	4358.	0.	0.17	0.85	5.65	5.65	1709.	0.	0.07	0.33
67	50	5.65	5.65	4007.	0.	0.16	0.78	5.65	5.65	1365.	0.	0.05	0.27
68	50	5.65	5.65	2625.	0.	0.10	0.51	5.65	5.65	1132.	0.	0.05	0.22
69	50	5.65	5.65	322.	0.	0.01	0.06	5.65	5.65	1126.	0.	0.04	0.22
70	50	5.65	5.65	1795.	0.	0.07	0.35	5.65	5.65	4196.	0.	0.17	0.82
71	50	5.65	5.65	3792.	0.	0.15	0.74	5.65	5.65	4107.	0.	0.16	0.80
72	50	5.65	5.65	4299.	0.	0.17	0.84	5.65	5.65	3572.	0.	0.14	0.70
73	50	5.65	5.65	3794.	0.	0.15	0.74	5.65	5.65	2976.	0.	0.12	0.58
74	50	5.65	5.65	2453.	0.	0.10	0.48	5.65	5.65	2528.	0.	0.10	0.49
75	50	5.65	5.65	276.	0.	0.01	0.05	5.65	5.65	2374.	0.	0.09	0.46
76	50	5.65	5.65	1718.	0.	0.07	0.34	5.65	5.65	5218.	0.	0.21	1.02
77	50	5.65	5.65	3333.	0.	0.13	0.65	5.65	5.65	5115.	0.	0.20	1.00
78	50	5.65	5.65	3968.	0.	0.16	0.77	5.65	5.65	4634.	0.	0.19	0.90
79	50	5.65	5.65	3397.	0.	0.14	0.66	5.65	5.65	3930.	0.	0.16	0.77
80	50	5.65	5.65	2099.	0.	0.08	0.41	5.65	5.65	3306.	0.	0.13	0.65
81	50	5.65	5.65	123.	0.	0.00	0.02	5.65	5.65	2789.	0.	0.11	0.54
82	50	5.65	5.65	2017.	0.	0.08	0.39	5.65	5.65	1851.	0.	0.07	0.36
83	50	5.65	5.65	1971.	0.	0.08	0.38	5.65	5.65	1253.	0.	0.05	0.24
84	50	5.65	5.65	2069.	0.	0.08	0.40	5.65	5.65	2570.	0.	0.10	0.50
85	50	5.65	5.65	269.	0.	0.01	0.05	5.65	5.65	3400.	0.	0.14	0.66
86	50	5.65	5.65	1333.	0.	0.05	0.26	5.65	5.65	4174.	0.	0.17	0.81
87	50	5.65	5.65	2557.	0.	0.10	0.50	5.65	5.65	5572.	0.	0.22	1.09
88	50	5.65	5.65	2250.	0.	0.09	0.44	5.65	5.65	5772.	0.	0.23	1.13
89	50	5.65	5.65	1245.	0.	0.05	0.24	5.65	5.65	5824.	0.	0.23	1.14
90	50	5.65	5.65	361.	0.	0.01	0.07	5.65	5.65	5839.	0.	0.23	1.14
91	50	5.65	5.65	30.	0.	0.00	0.01	5.65	5.65	1900.	0.	0.08	0.37
92	50	5.65	5.65	1529.	0.	0.06	0.30	5.65	5.65	1787.	0.	0.07	0.35
93	50	5.65	5.65	2225.	0.	0.09	0.43	5.65	5.65	1830.	0.	0.07	0.36
94	50	5.65	5.65	2159.	0.	0.09	0.42	5.65	5.65	1544.	0.	0.06	0.30
95	50	5.65	5.65	1371.	0.	0.05	0.27	5.65	5.65	1310.	0.	0.05	0.26
96	50	5.65	5.65	1460.	0.	0.06	0.28	5.65	5.65	5817.	0.	0.23	1.14
97	50	5.65	5.65	2935.	0.	0.12	0.57	5.65	5.65	5551.	0.	0.22	1.08
98	50	5.65	5.65	3477.	0.	0.14	0.68	5.65	5.65	4982.	0.	0.20	0.97
99	50	5.65	5.65	2971.	0.	0.12	0.58	5.65	5.65	4169.	0.	0.17	0.81
100	50	5.65	5.65	1811.	0.	0.07	0.35	5.65	5.65	3134.	0.	0.13	0.61
101	50	5.65	5.65	19.	0.	0.00	0.00	5.65	5.65	2297.	0.	0.09	0.45
102	50	5.65	5.65	1767.	0.	0.07	0.34	5.65	5.65	3312.	0.	0.13	0.65
103	50	5.65	5.65	1823.	0.	0.07	0.36	5.65	5.65	3099.	0.	0.12	0.60
104	50	5.65	5.65	1831.	0.	0.07	0.36	5.65	5.65	3842.	0.	0.15	0.75
105	50	5.65	5.65	145.	0.	0.01	0.03	5.65	5.65	4272.	0.	0.17	0.83
106	50	5.65	5.65	1427.	0.	0.06	0.28	5.65	5.65	4289.	0.	0.17	0.84
107	50	5.65	5.65	1682.	0.	0.07	0.33	5.65	5.65	4233.	0.	0.17	0.83
108	50	5.65	5.65	1545.	0.	0.06	0.30	5.65	5.65	4644.	0.	0.19	0.91
109	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	5295.	0.	0.21	1.03
110	50	5.65	5.65	916.	0.	0.04	0.18	5.65	5.65	4255.	0.	0.17	0.83
111	50	5.65	5.65	1537.	0.	0.06	0.30	5.65	5.65	4300.	0.	0.17	0.84
112	50	5.65	5.65	1157.	0.	0.05	0.23	5.65	5.65	4606.	0.	0.18	0.90
113	50	5.65	5.65	100.	0.	0.00	0.02	5.65	5.65	4892.	0.	0.20	0.96
114	50	5.65	5.65	1059.	0.	0.04	0.21	5.65	5.65	3431.	0.	0.14	0.67
115	50	5.65	5.65	1509.	0.	0.06	0.29	5.65	5.65	3161.	0.	0.13	0.62
116	50	5.65	5.65	1175.	0.	0.05	0.23	5.65	5.65	3370.	0.	0.13	0.66
117	50	5.65	5.65	195.	0.	0.01	0.04	5.65	5.65	3476.	0.	0.14	0.68
118	50	5.65	5.65	1051.	0.	0.04	0.21	5.65	5.65	1679.	0.	0.07	0.33
119	50	5.65	5.65	1440.	0.	0.06	0.28	5.65	5.65	1364.	0.	0.05	0.27
120	50	5.65	5.65	1103.	0.	0.04	0.22	5.65	5.65	1274.	0.	0.05	0.25
121	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	964.	0.	0.04	0.19
122	50	5.65	5.65	851.	0.	0.03	0.17	5.65	5.65	5376.	0.	0.21	1.05
123	50	5.65	5.65	2121.	0.	0.08	0.41	5.65	5.65	6006.	0.	0.24	1.17
124	50	5.65	5.65	1967.	0.	0.08	0.38	5.65	5.65	6018.	0.	0.24	1.17
125	50	5.65	5.65	1002.	0.	0.04	0.20	5.65	5.65	5939.	0.	0.24	1.16
126	50	5.65	5.65	612.	0.	0.02	0.12	5.65	5.65	5820.	0.	0.23	1.14
127	50	5.65	5.65	566.	0.	0.02	0.11	5.65	5.65	5815.	0.	0.23	1.14
128	50	5.65	5.65	1692.	0.	0.07	0.33	5.65	5.65	6005.	0.	0.24	1.17
129	50	5.65	5.65	1645.	0.	0.07	0.32	5.65	5.65	5965.	0.	0.24	1.16
130	50	5.65	5.65	785.	0.	0.03	0.15	5.65	5.65	5732.	0.	0.23	1.12
131	50	5.65	5.65	687.	0.	0.03	0.13	5.65	5.65	5424.	0.	0.22	1.06
132	50	5.65	5.65	442.	0.	0.02	0.09	5.65	5.65	5040.	0.	0.20	0.98
133	50	5.65	5.65	1457.	0.	0.06	0.28	5.65	5.65	5134.	0.	0.21	1.00
134	50	5.65	5.65	1411.	0.	0.06	0.28	5.65	5.65	4986.	0.	0.20	0.97
135	50	5.65	5.65	218.	0.	0.01	0.04	5.65	5.65	4649.	0.	0.19	0.91
136	50	5.65	5.65	728.	0.	0.03	0.14	5.65	5.65	4368.	0.	0.17	0.85
137	50	5.65	5.65	236.	0.	0.01	0.05	5.65	5.65	3442.	0.	0.14	0.67
138	50	5.65	5.65	1272.	0.	0.05	0.25	5.65	5.65	3348.	0.	0.13	0.65
139	50	5.65	5.65	1160.	0.	0.05	0.23	5.65	5.65	3165.	0.	0.13	0.62
140	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2837.	0.	0.11	0.55
141	50	5.65	5.65	378.	0.	0.02	0.07	5.65	5.65	2859.	0.	0.11	0.56
142	50	5.65	5.65	99.	0.	0.00	0.02	5.65	5.65	574.	0.	0.02	0.11
143	50	5.65	5.65	1049.	0.	0.04	0.20	5.65	5.65	133.	0.	0.01	0.03
144	50	5.65	5.65	856.	0.	0.03	0.17	5.65	5.65	0.	0.	0.00	0.00
145	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
146	50	5.65	5.65	446.	0.	0.02	0.09	5.65	5.65	0.	0.	0.00	0.00
147	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2669.	0.	0.11	0.52
148	50	5.65	5.65	1293.	0.	0.05	0.25	5.65	5.65	2420.	0.	0.10	0.47
149	50	5.65	5.65	2060.	0.	0.08	0.40	5.65	5.65	2077.	0.	0.08	0.41
150	50	5.65											

152	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3441.	0.	0.14	0.67
153	50	5.65	5.65	958.	0.	0.04	0.19	5.65	5.65	3144.	0.	0.13	0.61
154	50	5.65	5.65	1794.	0.	0.07	0.35	5.65	5.65	2918.	0.	0.12	0.57
155	50	5.65	5.65	1931.	0.	0.08	0.38	5.65	5.65	2984.	0.	0.12	0.58
156	50	5.65	5.65	1360.	0.	0.05	0.27	5.65	5.65	3089.	0.	0.12	0.60
157	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3393.	0.	0.14	0.66
158	50	5.65	5.65	1096.	0.	0.04	0.21	5.65	5.65	3368.	0.	0.13	0.66
159	50	5.65	5.65	1841.	0.	0.07	0.36	5.65	5.65	3261.	0.	0.13	0.64
160	50	5.65	5.65	1921.	0.	0.08	0.38	5.65	5.65	3223.	0.	0.13	0.63
161	50	5.65	5.65	1230.	0.	0.05	0.24	5.65	5.65	3244.	0.	0.13	0.63
162	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2717.	0.	0.11	0.53
163	50	5.65	5.65	1108.	0.	0.04	0.22	5.65	5.65	2771.	0.	0.11	0.54
164	50	5.65	5.65	1839.	0.	0.07	0.36	5.65	5.65	2627.	0.	0.10	0.51
165	50	5.65	5.65	1889.	0.	0.08	0.37	5.65	5.65	2508.	0.	0.10	0.49
166	50	5.65	5.65	1188.	0.	0.05	0.23	5.65	5.65	2452.	0.	0.10	0.48
167	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	491.	0.	0.02	0.10
168	50	5.65	5.65	877.	0.	0.04	0.17	5.65	5.65	1008.	0.	0.04	0.20
169	50	5.65	5.65	1669.	0.	0.07	0.33	5.65	5.65	1157.	0.	0.05	0.23
170	50	5.65	5.65	1815.	0.	0.07	0.35	5.65	5.65	1033.	0.	0.04	0.20
171	50	5.65	5.65	1334.	0.	0.05	0.26	5.65	5.65	1011.	0.	0.04	0.20
172	50	5.65	5.65	1395.	0.	0.06	0.27	5.65	5.65	5638.	0.	0.23	1.10
173	50	5.65	5.65	2625.	0.	0.10	0.51	5.65	5.65	5322.	0.	0.21	1.04
174	50	5.65	5.65	3110.	0.	0.12	0.61	5.65	5.65	4811.	0.	0.19	0.94
175	50	5.65	5.65	2667.	0.	0.11	0.52	5.65	5.65	4096.	0.	0.16	0.80
176	50	5.65	5.65	1536.	0.	0.06	0.30	5.65	5.65	3300.	0.	0.13	0.64
177	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2905.	0.	0.12	0.57
178	50	5.65	5.65	1359.	0.	0.05	0.27	5.65	5.65	5086.	0.	0.20	0.99
179	50	5.65	5.65	2234.	0.	0.09	0.44	5.65	5.65	4762.	0.	0.19	0.93
180	50	5.65	5.65	2635.	0.	0.11	0.51	5.65	5.65	4435.	0.	0.18	0.87
181	50	5.65	5.65	2268.	0.	0.09	0.44	5.65	5.65	4114.	0.	0.16	0.80
182	50	5.65	5.65	1254.	0.	0.05	0.24	5.65	5.65	3854.	0.	0.15	0.75
183	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3659.	0.	0.15	0.71
184	50	5.65	5.65	1625.	0.	0.06	0.32	5.65	5.65	4364.	0.	0.17	0.85
185	50	5.65	5.65	2036.	0.	0.08	0.40	5.65	5.65	4150.	0.	0.17	0.81
186	50	5.65	5.65	2364.	0.	0.09	0.46	5.65	5.65	3801.	0.	0.15	0.74
187	50	5.65	5.65	2020.	0.	0.08	0.39	5.65	5.65	3689.	0.	0.15	0.72
188	50	5.65	5.65	1102.	0.	0.04	0.22	5.65	5.65	3689.	0.	0.15	0.72
189	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	3565.	0.	0.14	0.70
190	50	5.65	5.65	1597.	0.	0.06	0.31	5.65	5.65	3080.	0.	0.12	0.60
191	50	5.65	5.65	2075.	0.	0.08	0.41	5.65	5.65	2958.	0.	0.12	0.58
192	50	5.65	5.65	2187.	0.	0.09	0.43	5.65	5.65	2722.	0.	0.11	0.53
193	50	5.65	5.65	1804.	0.	0.07	0.35	5.65	5.65	2824.	0.	0.11	0.55
194	50	5.65	5.65	893.	0.	0.04	0.17	5.65	5.65	2819.	0.	0.11	0.55
195	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2587.	0.	0.10	0.51
196	50	5.65	5.65	1754.	0.	0.07	0.34	5.65	5.65	721.	0.	0.03	0.14
197	50	5.65	5.65	2039.	0.	0.08	0.40	5.65	5.65	1257.	0.	0.05	0.25
198	50	5.65	5.65	1949.	0.	0.08	0.38	5.65	5.65	1363.	0.	0.05	0.27
199	50	5.65	5.65	1750.	0.	0.07	0.34	5.65	5.65	1302.	0.	0.05	0.25
200	50	5.65	5.65	1148.	0.	0.05	0.22	5.65	5.65	838.	0.	0.03	0.16
201	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	484.	0.	0.02	0.09
439	50	5.65	5.65	1542.	0.	0.06	0.30	5.65	5.65	617.	0.	0.02	0.12
440	50	5.65	5.65	1465.	0.	0.06	0.29	5.65	5.65	0.	0.	0.00	0.00
441	50	5.65	5.65	964.	0.	0.04	0.19	5.65	5.65	0.	0.	0.00	0.00
442	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
443	50	5.65	5.65	801.	0.	0.03	0.16	5.65	5.65	749.	0.	0.03	0.15
444	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	191.	0.	0.01	0.04
445	50	5.65	5.65	630.	0.	0.03	0.12	5.65	5.65	0.	0.	0.00	0.00
446	50	5.65	5.65	864.	0.	0.03	0.17	5.65	5.65	0.	0.	0.00	0.00
447	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
448	50	5.65	5.65	225.	0.	0.01	0.04	5.65	5.65	0.	0.	0.00	0.00
449	50	5.65	5.65	1220.	0.	0.05	0.24	5.65	5.65	0.	0.	0.00	0.00
450	50	5.65	5.65	1419.	0.	0.06	0.28	5.65	5.65	0.	0.	0.00	0.00
451	50	5.65	5.65	1307.	0.	0.05	0.26	5.65	5.65	31.	0.	0.00	0.01
452	50	5.65	5.65	1756.	0.	0.07	0.34	5.65	5.65	261.	0.	0.01	0.05
453	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	333.	0.	0.01	0.06
454	50	5.65	5.65	1475.	0.	0.06	0.29	5.65	5.65	643.	0.	0.03	0.13
455	50	5.65	5.65	1843.	0.	0.07	0.36	5.65	5.65	504.	0.	0.02	0.10
456	50	5.65	5.65	1755.	0.	0.07	0.34	5.65	5.65	336.	0.	0.01	0.07
457	50	5.65	5.65	2050.	0.	0.08	0.40	5.65	5.65	682.	0.	0.03	0.13
458	50	5.65	5.65	2191.	0.	0.09	0.43	5.65	5.65	925.	0.	0.04	0.18

L'ARMATURA È OVUNQUE > DELLA QUANTITÀ RICHIESTA: IL PUNTO 2.3 DELLE NTC È VERIFICATO (Rd > Ed)

MACROGUSCIO fondazione

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

CASI DI CARICO: ->

Nome	Descrizione
12	Rara (RARA)
13	Frequente (FREQUENTE)
14	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 5 cm
copriferro superiore (asse armatura): 5 cm

Af = area effettiva tesa (cm2 al metro)

Afc = area effettiva compressa (cm2 al metro)

Mom = momento flettente [kgfm/m]

Nor = sforzo normale [daN]

σc = tensione calcestruzzo [daN/cm2]

valore max per combinazione rara = 149.4 daN/cm2
quasi permanente = 112 daN/cm2

σf = tensione acciaio [daN/cm2]

valore max per combinazione rara = 3600 daN/cm2

wkF = apertura caratteristica per combinazione frequente (mm) - valore max = 0.4 mm

wkP = apertura caratteristica per combinazione quasi permanente (mm) - valore max = 0.3 mm

<-

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA						COMB. FREQUENTE			COMB. QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	WkF	Mom	Nor	σc	WkP	
1	5.65	5.65	1098	0.	6.17	450.	1003	0.	0.055	972	0.	5.46	0.053	
2	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
3	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
4	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
5	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
6	5.65	5.65	850	0.	4.78	349.	740	0.	0.041	697	0.	3.91	0.038	
7	5.65	5.65	2027	0.	11.39	831.	1830	0.	0.100	1762	0.	9.90	0.097	
8	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
9	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
10	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
11	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
12	5.65	5.65	895	0.	5.03	367.	783	0.	0.043	739	0.	4.15	0.041	
13	5.65	5.65	2288	0.	12.85	939.	2062	0.	0.113	1984	0.	11.15	0.109	
14	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
15	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
16	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
17	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
18	5.65	5.65	829	0.	4.66	340.	715	0.	0.039	673	0.	3.78	0.037	
19	5.65	5.65	1014	0.	5.70	416.	917	0.	0.050	882	0.	4.96	0.048	
20	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
21	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
22	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
23	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
24	5.65	5.65	1218	0.	6.84	500.	1097	0.	0.060	1053	0.	5.92	0.058	
25	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
26	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
27	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
28	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
29	5.65	5.65	1207	0.	6.78	495.	1069	0.	0.059	1020	0.	5.73	0.056	
30	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
31	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
32	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
33	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
34	5.65	5.65	1379	0.	7.75	566.	1359	0.	0.075	1359	0.	7.64	0.075	
35	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
36	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
37	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
38	5.65	5.65	2059	0.	11.57	845.	1827	0.	0.100	1746	0.	9.81	0.096	
39	5.65	5.65	1270	0.	7.14	521.	1214	0.	0.067	1197	0.	6.72	0.066	
40	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
41	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
42	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
43	5.65	5.65	1416	0.	7.95	581.	1253	0.	0.069	1198	0.	6.73	0.066	
44	5.65	5.65	994	0.	5.58	408.	940	0.	0.052	922	0.	5.18	0.051	
45	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
46	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
47	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
48	5.65	5.65	690	0.	3.88	283.	607	0.	0.033	580	0.	3.26	0.032	
49	5.65	5.65	1022	0.	5.74	419.	907	0.	0.050	865	0.	4.86	0.047	
50	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
51	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
52	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
53	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
54	5.65	5.65	1055	0.	5.93	433.	927	0.	0.051	881	0.	4.95	0.048	
55	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
56	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
57	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
58	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
59	5.65	5.65	879	0.	4.94	361.	771	0.	0.042	730	0.	4.10	0.040	
60	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
61	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
62	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
63	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
64	5.65	5.65	2451	0.	13.77	1005.	2202	0.	0.121	2116	0.	11.89	0.116	
65	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
66	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
67	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
68	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
69	5.65	5.65	911	0.	5.12	374.	789	0.	0.043	744	0.	4.18	0.041	
70	5.65	5.65	2520	0.	14.16	1034.	2264	0.	0.124	2175	0.	12.22	0.119	
71	5.65	5.65	216	0.	1.22	89.	206	0.	0.011	206	0.	1.16	0.011	
72	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
73	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
74	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
75	5.65	5.65	949	0.	5.33	390.	820	0.	0.045	771	0.	4.33	0.042	
76	5.65	5.65	1036	0.	5.82	425.	927	0.	0.051	892	0.	5.01	0.049	
77	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
78	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
79	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
80	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
81	5.65	5.65	688	0.	3.87	282.	598	0.	0.033	562	0.	3.16	0.031	
82	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
83	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
84	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
85	5.65	5.65	1408	0.	7.91	578.	1319	0.	0.072	1289	0.	7.24	0.071	
86	5.65	5.65	817	0.	4.59	335.	764	0.	0.042	745	0.	4.19	0.041	
87	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
88	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
89	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
90	5.65	5.65	30	0.	0.17	12.	19	0.	0.001	19	0.	0.11	0.001	
91	5.65	5.65	673	0.	3.78	276.	589	0.	0.032	558	0.	3.13	0.031	
92	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
93	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
94	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
95	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
96	5.65	5.65	25	0.	0.14	10.	22	0.	0.001	24	0.	0.13	0.001	
97	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
98	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	
99	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000	

100	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
101	5.65	5.65	570	0.	3.20	234.	493	0.0027	462	0.	2.60	0.025
102	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
103	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
104	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
105	5.65	5.65	972	0.	5.46	399.	912	0.0050	893	0.	5.02	0.049
106	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
107	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
108	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
109	5.65	5.65	664	0.	3.73	273.	624	0.0034	612	0.	3.44	0.034
110	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
111	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
112	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
113	5.65	5.65	239	0.	1.34	98.	225	0.0012	220	0.	1.24	0.012
114	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
115	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
116	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
117	5.65	5.65	351	0.	1.97	144.	320	0.0018	310	0.	1.74	0.017
118	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
119	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
120	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
121	5.65	5.65	454	0.	2.55	186.	416	0.0023	402	0.	2.26	0.022
122	5.65	5.65	738	0.	4.15	303.	683	0.0037	663	0.	3.73	0.036
123	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
124	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
125	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
126	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
127	5.65	5.65	527	0.	2.96	216.	485	0.0027	469	0.	2.64	0.026
128	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
129	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
130	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
131	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
132	5.65	5.65	249	0.	1.40	102.	228	0.0013	220	0.	1.24	0.012
133	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
134	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
135	5.65	5.65	416	0.	2.34	171.	376	0.0021	367	0.	2.06	0.020
136	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
137	5.65	5.65	379	0.	2.13	155.	345	0.0019	332	0.	1.87	0.018
138	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
139	5.65	5.65	233	0.	1.31	96.	194	0.0011	184	0.	1.03	0.010
140	5.65	5.65	1677	0.	9.42	688.	1514	0.0083	1461	0.	8.21	0.080
141	5.65	5.65	392	0.	2.20	161.	347	0.0019	336	0.	1.89	0.018
142	5.65	5.65	483	0.	2.72	198.	438	0.0024	420	0.	2.36	0.023
143	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
144	5.65	5.65	300	0.	1.69	123.	272	0.0015	263	0.	1.48	0.014
145	5.65	5.65	2432	0.	13.66	998.	2207	0.0121	2131	0.	11.97	0.117
146	5.65	5.65	946	0.	5.32	388.	858	0.0047	830	0.	4.66	0.046
147	5.65	5.65	538	0.	3.02	221.	471	0.0026	446	0.	2.51	0.024
148	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
149	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
150	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
151	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
152	5.65	5.65	476	0.	2.67	195.	421	0.0023	401	0.	2.25	0.022
153	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
154	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
155	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
156	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
157	5.65	5.65	605	0.	3.40	248.	545	0.0030	525	0.	2.95	0.029
158	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
159	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
160	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
161	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
162	5.65	5.65	1055	0.	5.93	433.	951	0.0052	917	0.	5.15	0.050
163	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
164	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
165	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
166	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
167	5.65	5.65	1323	0.	7.43	543.	1188	0.0065	1142	0.	6.41	0.063
168	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
169	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
170	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
171	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
172	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
173	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
174	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
175	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
176	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
177	5.65	5.65	491	0.	2.76	202.	423	0.0023	397	0.	2.23	0.022
178	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
179	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
180	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
181	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
182	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
183	5.65	5.65	466	0.	2.62	191.	406	0.0022	384	0.	2.16	0.021
184	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
185	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
186	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
187	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
188	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
189	5.65	5.65	617	0.	3.47	253.	556	0.0031	536	0.	3.01	0.029
190	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
191	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
192	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
193	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
194	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
195	5.65	5.65	1061	0.	5.96	435.	964	0.0053	932	0.	5.24	0.051
196	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
197	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
198	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
199	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
200	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
201	5.65	5.65	1438	0.	8.08	590.	1290	0.0071	1238	0.	6.96	0.068
439	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
440	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000

441	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
442	5.65	5.65	1478	0.	8.30	606.	1367	0.0075	1334	0.	7.49	0.073
443	5.65	5.65	1485	0.	8.34	609.	1345	0.0074	1299	0.	7.30	0.071
444	5.65	5.65	3040	0.	17.08	1247.	2759	0.0151	2664	0.	14.97	0.146
445	5.65	5.65	126	0.	0.71	52.	117	0.0006	113	0.	0.64	0.006
446	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
447	5.65	5.65	665	0.	3.74	273.	609	0.0033	590	0.	3.32	0.032
448	5.65	5.65	807	0.	4.54	331.	751	0.0041	733	0.	4.12	0.040
449	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
450	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
451	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
452	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
453	5.65	5.65	1903	0.	10.69	781.	1715	0.0094	1650	0.	9.27	0.091
454	5.65	5.65	45	0.	0.25	19.	28	0.0002	21	0.	0.12	0.001
455	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
456	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
457	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
458	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA						COMB. FREQUENTE			COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	WkF	Mom	Nor	σc	WkP
1	5.65	5.65	750	0.	4.21	308.	646	0.	0.035	608	0.	3.41	0.033
2	5.65	5.65	256	0.	1.44	105.	212	0.	0.012	196	0.	1.10	0.011
3	5.65	5.65	29	0.	0.17	12.	19	0.	0.001	15	0.	0.09	0.001
4	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
5	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
6	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
7	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
8	5.65	5.65	1124	0.	6.31	461.	975	0.	0.053	920	0.	5.17	0.050
9	5.65	5.65	784	0.	4.40	321.	678	0.	0.037	640	0.	3.60	0.035
10	5.65	5.65	369	0.	2.07	151.	312	0.	0.017	292	0.	1.64	0.016
11	5.65	5.65	38	0.	0.21	16.	20	0.	0.001	14	0.	0.08	0.001
12	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
13	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
14	5.65	5.65	3907	0.	21.95	1603.	3483	0.	0.191	3330	0.	18.71	0.183
15	5.65	5.65	2706	0.	15.20	1110.	2409	0.	0.132	2304	0.	12.94	0.126
16	5.65	5.65	1061	0.	5.96	435.	932	0.	0.051	886	0.	4.98	0.049
17	5.65	5.65	407	0.	2.29	167.	345	0.	0.019	324	0.	1.82	0.018
18	5.65	5.65	475	0.	2.67	195.	402	0.	0.022	378	0.	2.12	0.021
19	5.65	5.65	478	0.	2.68	196.	404	0.	0.022	379	0.	2.13	0.021
20	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
21	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
22	5.65	5.65	30	0.	0.17	12.	34	0.	0.002	35	0.	0.20	0.002
23	5.65	5.65	258	0.	1.45	106.	241	0.	0.013	234	0.	1.32	0.013
24	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
25	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
26	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
27	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
28	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
29	5.65	5.65	198	0.	1.11	81.	154	0.	0.008	139	0.	0.78	0.008
30	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
31	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
32	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
33	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
34	5.65	5.65	651	0.	3.66	267.	674	0.	0.037	682	0.	3.83	0.037
35	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
36	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
37	5.65	5.65	222	0.	1.25	91.	232	0.	0.013	239	0.	1.34	0.013
38	5.65	5.65	1424	0.	8.00	584.	1291	0.	0.071	1246	0.	7.00	0.068
39	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
40	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
41	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
42	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
43	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
44	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
45	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
46	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
47	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
48	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
49	5.65	5.65	160	0.	0.90	66.	110	0.	0.006	93	0.	0.52	0.005
50	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
51	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
52	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
53	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
54	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
55	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
56	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
57	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
58	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
59	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
60	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
61	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
62	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
63	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
64	5.65	5.65	2186	0.	12.28	897.	1959	0.	0.107	1880	0.	10.56	0.103
65	5.65	5.65	2511	0.	14.11	1030.	2240	0.	0.123	2144	0.	12.04	0.118
66	5.65	5.65	1371	0.	7.70	562.	1217	0.	0.067	1164	0.	6.54	0.064
67	5.65	5.65	212	0.	1.19	87.	171	0.	0.009	158	0.	0.89	0.009
68	5.65	5.65	255	0.	1.43	104.	202	0.	0.011	184	0.	1.03	0.010
69	5.65	5.65	321	0.	1.81	132.	258	0.	0.014	236	0.	1.32	0.013
70	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
71	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
72	5.65	5.65	149	0.	0.84	61.	115	0.	0.006	104	0.	0.58	0.006
73	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
74	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
75	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
76	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
77	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
78	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
79	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
80	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
81	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000

[illegible]

186	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
187	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
188	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
189	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
190	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
191	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
192	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
193	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
194	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
195	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
196	5.65	5.65	315	0.	1.77	129.	236	0.013	214	0.	1.20	0.012
197	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
198	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
199	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
200	5.65	5.65	12	0.	0.07	5.	0.	0.000	0.	0.	0.00	0.000
201	5.65	5.65	576	0.	3.23	236.	498	0.027	474	0.	2.67	0.026
439	5.65	5.65	745	0.	4.19	306.	649	0.036	604	0.	3.40	0.033
440	5.65	5.65	271	0.	1.52	111.	275	0.015	282	0.	1.58	0.015
441	5.65	5.65	669	0.	3.76	274.	639	0.035	635	0.	3.57	0.035
442	5.65	5.65	830	0.	4.66	340.	755	0.041	729	0.	4.10	0.040
443	5.65	5.65	1788	0.	10.04	733.	1611	0.088	1552	0.	8.72	0.085
444	5.65	5.65	1623	0.	9.12	666.	1459	0.080	1403	0.	7.88	0.077
445	5.65	5.65	1271	0.	7.14	522.	1140	0.063	1094	0.	6.15	0.060
446	5.65	5.65	1224	0.	6.88	502.	1105	0.061	1067	0.	6.00	0.059
447	5.65	5.65	1013	0.	5.69	416.	921	0.051	893	0.	5.02	0.049
448	5.65	5.65	854	0.	4.80	350.	784	0.043	763	0.	4.29	0.042
449	5.65	5.65	623	0.	3.50	255.	583	0.032	573	0.	3.22	0.031
450	5.65	5.65	424	0.	2.38	174.	380	0.021	364	0.	2.05	0.020
451	5.65	5.65	696	0.	3.91	286.	606	0.033	568	0.	3.19	0.031
452	5.65	5.65	342	0.	1.92	140.	302	0.017	285	0.	1.60	0.016
453	5.65	5.65	1111	0.	6.24	456.	1009	0.055	973	0.	5.47	0.053
454	5.65	5.65	1104	0.	6.21	453.	1002	0.055	967	0.	5.44	0.053
455	5.65	5.65	572	0.	3.21	235.	512	0.028	490	0.	2.75	0.027
456	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.	0.00	0.000
457	5.65	5.65	539	0.	3.03	221.	493	0.027	480	0.	2.70	0.026
458	5.65	5.65	1480	0.	8.32	607.	1336	0.073	1288	0.	7.24	0.071

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA		COMB. FREQUENTE				COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	σc	σf
1	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
2	5.65	5.65	1560	0.	8.76	640.	1418	0.078	1365	0.
3	5.65	5.65	2874	0.	16.15	1179.	2622	0.144	2527	0.
4	5.65	5.65	2811	0.	15.79	1153.	2533	0.139	2431	0.
5	5.65	5.65	1649	0.	9.26	676.	1483	0.081	1424	0.
6	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
7	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
8	5.65	5.65	1780	0.	10.00	730.	1633	0.090	1579	0.
9	5.65	5.65	3047	0.	17.12	1250.	2750	0.151	2641	0.
10	5.65	5.65	2847	0.	15.99	1168.	2562	0.141	2457	0.
11	5.65	5.65	1624	0.	9.13	666.	1459	0.080	1400	0.
12	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
13	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
14	5.65	5.65	2168	0.	12.18	890.	1967	0.108	1893	0.
15	5.65	5.65	3104	0.	17.44	1273.	2798	0.153	2685	0.
16	5.65	5.65	2835	0.	15.93	1163.	2548	0.140	2443	0.
17	5.65	5.65	1588	0.	8.92	651.	1425	0.078	1366	0.
18	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
19	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
20	5.65	5.65	880	0.	4.94	361.	780	0.043	740	0.
21	5.65	5.65	1908	0.	10.72	783.	1700	0.093	1617	0.
22	5.65	5.65	2170	0.	12.19	890.	1939	0.106	1847	0.
23	5.65	5.65	1472	0.	8.27	604.	1327	0.073	1270	0.
24	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
25	5.65	5.65	934	0.	5.25	383.	829	0.045	788	0.
26	5.65	5.65	1752	0.	9.84	719.	1561	0.086	1484	0.
27	5.65	5.65	1964	0.	11.03	806.	1756	0.096	1673	0.
28	5.65	5.65	1269	0.	7.13	521.	1147	0.063	1099	0.
29	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
30	5.65	5.65	976	0.	5.48	401.	868	0.048	826	0.
31	5.65	5.65	1615	0.	9.07	663.	1435	0.079	1365	0.
32	5.65	5.65	1775	0.	9.97	728.	1587	0.087	1512	0.
33	5.65	5.65	1062	0.	5.96	436.	963	0.053	923	0.
34	5.65	5.65	2296	0.	12.90	942.	2157	0.118	2113	0.
35	5.65	5.65	2972	0.	16.70	1219.	2747	0.151	2669	0.
36	5.65	5.65	2319	0.	13.03	951.	2150	0.118	2090	0.
37	5.65	5.65	1354	0.	7.61	556.	1185	0.065	1118	0.
38	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
39	5.65	5.65	1560	0.	8.77	640.	1462	0.080	1431	0.
40	5.65	5.65	2575	0.	14.47	1057.	2373	0.130	2302	0.
41	5.65	5.65	2091	0.	11.75	858.	1933	0.106	1876	0.
42	5.65	5.65	1235	0.	6.94	507.	1080	0.059	1018	0.
43	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
44	5.65	5.65	1161	0.	6.52	476.	1081	0.059	1055	0.
45	5.65	5.65	2188	0.	12.29	898.	2009	0.110	1944	0.
46	5.65	5.65	1845	0.	10.37	757.	1700	0.093	1647	0.
47	5.65	5.65	1093	0.	6.14	449.	955	0.052	900	0.
48	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
49	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
50	5.65	5.65	979	0.	5.50	402.	873	0.048	832	0.
51	5.65	5.65	1645	0.	9.24	675.	1458	0.080	1386	0.
52	5.65	5.65	1483	0.	8.33	608.	1308	0.072	1240	0.
53	5.65	5.65	695	0.	3.90	285.	637	0.035	614	0.
54	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
55	5.65	5.65	1036	0.	5.82	425.	926	0.051	883	0.
56	5.65	5.65	1695	0.	9.53	696.	1501	0.082	1426	0.
57	5.65	5.65	1624	0.	9.13	666.	1429	0.078	1352	0.
58	5.65	5.65	931	0.	5.23	382.	807	0.044	759	0.
59	5.65	5.65	0.	0.	0.00	0.	0.	0.000	0.	0.
60	5.65	5.65	1052	0.	5.91	432.	941	0.052	899	0.
61	5.65	5.65	1666	0.	9.36	683.	1475	0.081	1401	0.
62	5.65	5.65	1620	0.	9.10	665.	1425	0.078	1349	0.
63	5.65	5.65	940	0.	5.28	386.	823	0.045	778	0.

64	5.65	5.65	159	0.	0.89	65.	168	0.	0.009	170	0.	0.95	0.009
65	5.65	5.65	2402	0.	13.50	986.	2173	0.	0.119	2088	0.	11.73	0.115
66	5.65	5.65	3157	0.	17.74	1295.	2840	0.	0.156	2723	0.	15.30	0.149
67	5.65	5.65	2798	0.	15.72	1148.	2510	0.	0.138	2405	0.	13.51	0.132
68	5.65	5.65	1566	0.	8.80	643.	1403	0.	0.077	1344	0.	7.55	0.074
69	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
70	5.65	5.65	573	0.	3.22	235.	538	0.	0.030	524	0.	2.94	0.029
71	5.65	5.65	2479	0.	13.93	1017.	2237	0.	0.123	2147	0.	12.06	0.118
72	5.65	5.65	3043	0.	17.10	1248.	2734	0.	0.150	2619	0.	14.72	0.144
73	5.65	5.65	2630	0.	14.78	1079.	2357	0.	0.129	2257	0.	12.68	0.124
74	5.65	5.65	1457	0.	8.19	598.	1306	0.	0.072	1251	0.	7.03	0.069
75	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
76	5.65	5.65	920	0.	5.17	377.	846	0.	0.046	818	0.	4.59	0.045
77	5.65	5.65	2307	0.	12.96	946.	2080	0.	0.114	1996	0.	11.22	0.109
78	5.65	5.65	2737	0.	15.38	1123.	2459	0.	0.135	2356	0.	13.24	0.129
79	5.65	5.65	2335	0.	13.12	958.	2095	0.	0.115	2007	0.	11.28	0.110
80	5.65	5.65	1249	0.	7.02	513.	1125	0.	0.062	1080	0.	6.07	0.059
81	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
82	5.65	5.65	1404	0.	7.89	576.	1246	0.	0.068	1183	0.	6.65	0.065
83	5.65	5.65	1389	0.	7.80	570.	1259	0.	0.069	1222	0.	6.87	0.067
84	5.65	5.65	1458	0.	8.19	598.	1338	0.	0.073	1296	0.	7.28	0.071
85	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
86	5.65	5.65	736	0.	4.14	302.	678	0.	0.037	658	0.	3.70	0.036
87	5.65	5.65	1776	0.	9.98	729.	1622	0.	0.089	1565	0.	8.79	0.086
88	5.65	5.65	1587	0.	8.92	651.	1456	0.	0.080	1407	0.	7.90	0.077
89	5.65	5.65	909	0.	5.11	373.	793	0.	0.044	746	0.	4.19	0.041
90	5.65	5.65	0.	0.	0.00	0.	29	0.	0.002	37	0.	0.21	0.002
91	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
92	5.65	5.65	986	0.	5.54	404.	883	0.	0.048	843	0.	4.74	0.046
93	5.65	5.65	1572	0.	8.83	645.	1394	0.	0.076	1324	0.	7.44	0.073
94	5.65	5.65	1520	0.	8.54	624.	1342	0.	0.074	1273	0.	7.15	0.070
95	5.65	5.65	818	0.	4.60	336.	725	0.	0.040	690	0.	3.87	0.038
96	5.65	5.65	980	0.	5.50	402.	897	0.	0.049	865	0.	4.86	0.047
97	5.65	5.65	2066	0.	11.61	847.	1864	0.	0.102	1788	0.	10.05	0.098
98	5.65	5.65	2441	0.	13.72	1002.	2196	0.	0.120	2105	0.	11.83	0.115
99	5.65	5.65	2086	0.	11.72	856.	1877	0.	0.103	1800	0.	10.11	0.099
100	5.65	5.65	1112	0.	6.25	456.	1007	0.	0.055	970	0.	5.45	0.053
101	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
102	5.65	5.65	1197	0.	6.72	491.	1060	0.	0.058	1006	0.	5.65	0.055
103	5.65	5.65	1275	0.	7.16	523.	1161	0.	0.064	1127	0.	6.33	0.062
104	5.65	5.65	1259	0.	7.07	516.	1155	0.	0.063	1118	0.	6.28	0.061
105	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
106	5.65	5.65	962	0.	5.41	395.	850	0.	0.047	805	0.	4.52	0.044
107	5.65	5.65	1199	0.	6.73	492.	1105	0.	0.061	1071	0.	6.02	0.059
108	5.65	5.65	1075	0.	6.04	441.	986	0.	0.054	955	0.	5.36	0.052
109	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
110	5.65	5.65	574	0.	3.23	236.	536	0.	0.029	524	0.	2.95	0.029
111	5.65	5.65	1079	0.	6.06	443.	991	0.	0.054	959	0.	5.39	0.053
112	5.65	5.65	736	0.	4.14	302.	675	0.	0.037	653	0.	3.67	0.036
113	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
114	5.65	5.65	717	0.	4.03	294.	661	0.	0.036	642	0.	3.61	0.035
115	5.65	5.65	1095	0.	6.15	449.	1001	0.	0.055	968	0.	5.44	0.053
116	5.65	5.65	862	0.	4.84	354.	761	0.	0.042	721	0.	4.05	0.040
117	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
118	5.65	5.65	610	0.	3.43	250.	541	0.	0.030	513	0.	2.88	0.028
119	5.65	5.65	1017	0.	5.72	417.	902	0.	0.049	856	0.	4.81	0.047
120	5.65	5.65	742	0.	4.17	304.	678	0.	0.037	656	0.	3.68	0.036
121	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
122	5.65	5.65	362	0.	2.03	148.	321	0.	0.018	305	0.	1.71	0.017
123	5.65	5.65	1436	0.	8.07	589.	1302	0.	0.071	1252	0.	7.03	0.069
124	5.65	5.65	1366	0.	7.67	560.	1247	0.	0.068	1201	0.	6.75	0.066
125	5.65	5.65	695	0.	3.91	285.	647	0.	0.035	627	0.	3.52	0.034
126	5.65	5.65	339	0.	1.90	139.	311	0.	0.017	303	0.	1.70	0.017
127	5.65	5.65	194	0.	1.09	80.	155	0.	0.009	139	0.	0.78	0.008
128	5.65	5.65	1163	0.	6.53	477.	1048	0.	0.057	1004	0.	5.64	0.055
129	5.65	5.65	1139	0.	6.40	467.	1036	0.	0.057	995	0.	5.59	0.055
130	5.65	5.65	481	0.	2.70	197.	446	0.	0.024	429	0.	2.41	0.024
131	5.65	5.65	526	0.	2.95	216.	465	0.	0.026	440	0.	2.47	0.024
132	5.65	5.65	138	0.	0.77	56.	110	0.	0.006	99	0.	0.55	0.005
133	5.65	5.65	988	0.	5.55	406.	892	0.	0.049	855	0.	4.80	0.047
134	5.65	5.65	952	0.	5.35	391.	866	0.	0.048	832	0.	4.68	0.046
135	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
136	5.65	5.65	460	0.	2.58	189.	410	0.	0.022	389	0.	2.19	0.021
137	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
138	5.65	5.65	891	0.	5.01	366.	807	0.	0.044	775	0.	4.35	0.043
139	5.65	5.65	742	0.	4.17	304.	681	0.	0.037	656	0.	3.69	0.036
140	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
141	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
142	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
143	5.65	5.65	731	0.	4.11	300.	664	0.	0.036	638	0.	3.58	0.035
144	5.65	5.65	404	0.	2.27	166.	378	0.	0.021	366	0.	2.06	0.020
145	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
146	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
147	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
148	5.65	5.65	854	0.	4.80	350.	765	0.	0.042	731	0.	4.11	0.040
149	5.65	5.65	1410	0.	7.92	579.	1253	0.	0.069	1192	0.	6.70	0.065
150	5.65	5.65	1349	0.	7.58	554.	1198	0.	0.066	1139	0.	6.40	0.062
151	5.65	5.65	645	0.	3.62	265.	583	0.	0.032	561	0.	3.15	0.031
152	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
153	5.65	5.65	603	0.	3.39	247.	542	0.	0.030	517	0.	2.91	0.028
154	5.65	5.65	1262	0.	7.09	518.	1096	0.	0.060	1030	0.	5.79	0.056
155	5.65	5.65	1373	0.	7.71	563.	1189	0.	0.065	1116	0.	6.27	0.061
156	5.65	5.65	771	0.	4.33	316.	658	0.	0.036	612	0.	3.44	0.034
157	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
158	5.65	5.65	692	0.	3.89	284.	600	0.	0.033	563	0.	3.16	0.031
159	5.65	5.65	1324	0.	7.44	543.	1156	0.	0.063	1089	0.	6.12	0.060
160	5.65	5.65	1368	0.	7.69	561.	1186	0.	0.065	1115	0.	6.26	0.061
161	5.65	5.65	730	0.	4.10	300.	612	0.	0.034	564	0.	3.17	0.031
162	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
163	5.65	5.65	695	0.	3.90	285.	601	0.	0.033	563	0.	3.16	0.031
164	5.65	5.65	1322	0.	7.43	542.	1160	0.	0.064	1097	0.	6.16	0.060
165	5.65	5.65	1356	0.	7.62	556.	1184	0.	0.065	1116	0.	6.27	0.061
166	5.65	5.65	760	0.	4.27	312.	651	0.	0.036	607	0.	3.41	0.033
167	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000

168	5.65	5.65	475	0.	2.67	195.	402	0.	0.022	372	0.	2.09	0.020
169	5.65	5.65	1118	0.	6.28	459.	980	0.	0.054	925	0.	5.20	0.051
170	5.65	5.65	1270	0.	7.14	521.	1110	0.	0.061	1047	0.	5.88	0.057
171	5.65	5.65	826	0.	4.64	339.	719	0.	0.039	676	0.	3.80	0.037
172	5.65	5.65	995	0.	5.59	408.	908	0.	0.050	874	0.	4.91	0.048
173	5.65	5.65	1802	0.	10.13	739.	1628	0.	0.089	1563	0.	8.78	0.086
174	5.65	5.65	2131	0.	11.97	874.	1922	0.	0.105	1845	0.	10.36	0.101
175	5.65	5.65	1832	0.	10.29	751.	1654	0.	0.091	1590	0.	8.93	0.087
176	5.65	5.65	970	0.	5.45	398.	887	0.	0.049	858	0.	4.82	0.047
177	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
178	5.65	5.65	888	0.	4.99	364.	811	0.	0.044	780	0.	4.38	0.043
179	5.65	5.65	1551	0.	8.71	636.	1406	0.	0.077	1352	0.	7.60	0.074
180	5.65	5.65	1830	0.	10.28	751.	1658	0.	0.091	1596	0.	8.97	0.088
181	5.65	5.65	1575	0.	8.85	646.	1433	0.	0.079	1382	0.	7.77	0.076
182	5.65	5.65	807	0.	4.53	331.	749	0.	0.041	730	0.	4.10	0.040
183	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
184	5.65	5.65	1175	0.	6.60	482.	1055	0.	0.058	1010	0.	5.68	0.055
185	5.65	5.65	1457	0.	8.19	598.	1326	0.	0.073	1279	0.	7.18	0.070
186	5.65	5.65	1669	0.	9.37	685.	1520	0.	0.083	1467	0.	8.24	0.080
187	5.65	5.65	1418	0.	7.96	582.	1298	0.	0.071	1257	0.	7.06	0.069
188	5.65	5.65	698	0.	3.92	287.	657	0.	0.036	644	0.	3.62	0.035
189	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
190	5.65	5.65	1119	0.	6.29	459.	1008	0.	0.055	966	0.	5.43	0.053
191	5.65	5.65	1494	0.	8.39	613.	1363	0.	0.075	1316	0.	7.39	0.072
192	5.65	5.65	1557	0.	8.75	639.	1423	0.	0.078	1376	0.	7.73	0.075
193	5.65	5.65	1256	0.	7.06	515.	1155	0.	0.063	1120	0.	6.29	0.061
194	5.65	5.65	545	0.	3.06	224.	516	0.	0.028	507	0.	2.85	0.028
195	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
196	5.65	5.65	1191	0.	6.69	489.	1088	0.	0.060	1051	0.	5.91	0.058
197	5.65	5.65	1462	0.	8.21	600.	1335	0.	0.073	1290	0.	7.25	0.071
198	5.65	5.65	1335	0.	7.50	547.	1198	0.	0.066	1157	0.	6.50	0.063
199	5.65	5.65	1257	0.	7.06	516.	1125	0.	0.062	1077	0.	6.05	0.059
200	5.65	5.65	622	0.	3.50	255.	548	0.	0.030	519	0.	2.91	0.028
201	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
439	5.65	5.65	963	0.	5.41	395.	850	0.	0.047	805	0.	4.52	0.044
440	5.65	5.65	996	0.	5.60	409.	872	0.	0.048	822	0.	4.62	0.045
441	5.65	5.65	476	0.	2.68	195.	449	0.	0.025	441	0.	2.48	0.024
442	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
443	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
444	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
445	5.65	5.65	69	0.	0.39	28.	73	0.	0.004	72	0.	0.40	0.004
446	5.65	5.65	627	0.	3.52	257.	571	0.	0.031	551	0.	3.10	0.030
447	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
448	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
449	5.65	5.65	828	0.	4.65	340.	756	0.	0.041	731	0.	4.11	0.040
450	5.65	5.65	1032	0.	5.80	423.	915	0.	0.050	867	0.	4.87	0.048
451	5.65	5.65	778	0.	4.37	319.	695	0.	0.038	661	0.	3.71	0.036
452	5.65	5.65	1269	0.	7.13	521.	1112	0.	0.061	1050	0.	5.90	0.058
453	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
454	5.65	5.65	835	0.	4.69	343.	744	0.	0.041	709	0.	3.99	0.039
455	5.65	5.65	1324	0.	7.44	543.	1190	0.	0.065	1141	0.	6.41	0.063
456	5.65	5.65	1212	0.	6.81	497.	1090	0.	0.060	1046	0.	5.87	0.057
457	5.65	5.65	1498	0.	8.42	615.	1367	0.	0.075	1322	0.	7.43	0.073
458	5.65	5.65	1449	0.	8.14	595.	1322	0.	0.072	1277	0.	7.17	0.070

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA						COMB. FREQUENTE			COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	σc	σf	Mom	Nor	wkF	Mom	Nor	σc	wkP
1	5.65	5.65	279	0.	1.57	114.	240	0.	0.013	226	0.	1.27	0.012
2	5.65	5.65	184	0.	1.04	76.	157	0.	0.009	147	0.	0.82	0.008
3	5.65	5.65	21	0.	0.12	9.	13	0.	0.001	8	0.	0.05	0.000
4	5.65	5.65	99	0.	0.55	40.	100	0.	0.005	102	0.	0.57	0.006
5	5.65	5.65	282	0.	1.59	116.	261	0.	0.014	252	0.	1.41	0.014
6	5.65	5.65	326	0.	1.83	134.	300	0.	0.016	290	0.	1.63	0.016
7	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
8	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
9	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
10	5.65	5.65	215	0.	1.21	88.	213	0.	0.012	212	0.	1.19	0.012
11	5.65	5.65	539	0.	3.03	221.	494	0.	0.027	478	0.	2.68	0.026
12	5.65	5.65	610	0.	3.43	250.	554	0.	0.030	533	0.	3.00	0.029
13	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
14	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
15	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
16	5.65	5.65	277	0.	1.56	114.	272	0.	0.015	270	0.	1.52	0.015
17	5.65	5.65	216	0.	1.21	89.	212	0.	0.012	210	0.	1.18	0.012
18	5.65	5.65	82	0.	0.46	33.	89	0.	0.005	92	0.	0.51	0.005
19	5.65	5.65	401	0.	2.25	164.	366	0.	0.020	352	0.	1.98	0.019
20	5.65	5.65	503	0.	2.83	206.	454	0.	0.025	435	0.	2.44	0.024
21	5.65	5.65	643	0.	3.61	264.	572	0.	0.031	543	0.	3.05	0.030
22	5.65	5.65	799	0.	4.49	328.	705	0.	0.039	668	0.	3.75	0.037
23	5.65	5.65	945	0.	5.31	388.	833	0.	0.046	788	0.	4.43	0.043
24	5.65	5.65	614	0.	3.45	252.	557	0.	0.031	535	0.	3.00	0.029
25	5.65	5.65	844	0.	4.74	346.	766	0.	0.042	734	0.	4.12	0.040
26	5.65	5.65	1122	0.	6.31	460.	1009	0.	0.055	964	0.	5.42	0.053
27	5.65	5.65	1469	0.	8.25	603.	1316	0.	0.072	1255	0.	7.05	0.069
28	5.65	5.65	1730	0.	9.72	710.	1548	0.	0.085	1475	0.	8.29	0.081
29	5.65	5.65	108	0.	0.61	44.	113	0.	0.006	113	0.	0.64	0.006
30	5.65	5.65	343	0.	1.93	141.	328	0.	0.018	320	0.	1.80	0.018
31	5.65	5.65	1075	0.	6.04	441.	982	0.	0.054	944	0.	5.30	0.052
32	5.65	5.65	1586	0.	8.91	651.	1438	0.	0.079	1379	0.	7.75	0.076
33	5.65	5.65	1898	0.	10.66	779.	1716	0.	0.094	1644	0.	9.24	0.090
34	5.65	5.65	2449	0.	13.76	1005.	2315	0.	0.127	2274	0.	12.78	0.125
35	5.65	5.65	1970	0.	11.07	808.	1874	0.	0.103	1847	0.	10.38	0.101
36	5.65	5.65	1349	0.	7.58	553.	1301	0.	0.071	1290	0.	7.25	0.071
37	5.65	5.65	622	0.	3.49	255.	626	0.	0.034	632	0.	3.55	0.035
38	5.65	5.65	234	0.	1.32	96.	305	0.	0.017	335	0.	1.88	0.018
39	5.65	5.65	4160	0.	23.37	1707.	3903	0.	0.214	3821	0.	21.47	0.210
40	5.65	5.65	3613	0.	20.30	1482.	3390	0.	0.186	3319	0.	18.65	0.182
41	5.65	5.65	2894	0.	16.26	1187.	2713	0.	0.149	2655	0.	14.91	0.146
42	5.65	5.65	2543	0.	14.29	1043.	2365	0.	0.130	2305	0.	12.95	0.126
43	5.65	5.65	2620	0.	14.72	1075.	2412	0.	0.132	2339	0.	13.14	0.128
44	5.65	5.65	4780	0.	26.86	1961.	4498	0.	0.247	4410	0.	24.78	0.242
45	5.65	5.65	4381	0.	24.62	1797.	4108	0.	0.225	4021	0.	22.59	0.221

46	5.65	5.65	3766	0.	21.16	1545.	3502	0.	0.192	3413	0.	19.18	0.187
47	5.65	5.65	3660	0.	20.56	1502.	3372	0.	0.185	3272	0.	18.38	0.179
48	5.65	5.65	3766	0.	21.16	1545.	3446	0.	0.189	3332	0.	18.72	0.183
49	5.65	5.65	508	0.	2.86	209.	484	0.	0.027	474	0.	2.66	0.026
50	5.65	5.65	858	0.	4.82	352.	797	0.	0.044	774	0.	4.35	0.042
51	5.65	5.65	1357	0.	7.63	557.	1241	0.	0.068	1197	0.	6.73	0.066
52	5.65	5.65	1648	0.	9.26	676.	1497	0.	0.082	1439	0.	8.08	0.079
53	5.65	5.65	1806	0.	10.15	741.	1633	0.	0.090	1567	0.	8.80	0.086
54	5.65	5.65	1674	0.	9.40	687.	1546	0.	0.085	1499	0.	8.42	0.082
55	5.65	5.65	1756	0.	9.87	720.	1624	0.	0.089	1576	0.	8.86	0.086
56	5.65	5.65	1829	0.	10.28	750.	1689	0.	0.093	1638	0.	9.20	0.090
57	5.65	5.65	1968	0.	11.06	807.	1809	0.	0.099	1749	0.	9.83	0.096
58	5.65	5.65	2082	0.	11.70	854.	1906	0.	0.105	1840	0.	10.34	0.101
59	5.65	5.65	1805	0.	10.14	740.	1695	0.	0.093	1658	0.	9.31	0.091
60	5.65	5.65	1720	0.	9.67	706.	1625	0.	0.089	1593	0.	8.95	0.087
61	5.65	5.65	1682	0.	9.45	690.	1590	0.	0.087	1560	0.	8.76	0.086
62	5.65	5.65	1765	0.	9.92	724.	1660	0.	0.091	1624	0.	9.13	0.089
63	5.65	5.65	1792	0.	10.07	735.	1683	0.	0.092	1644	0.	9.24	0.090
64	5.65	5.65	500	0.	2.81	205.	490	0.	0.027	488	0.	2.74	0.027
65	5.65	5.65	807	0.	4.53	331.	758	0.	0.042	740	0.	4.16	0.041
66	5.65	5.65	964	0.	5.42	395.	894	0.	0.049	868	0.	4.88	0.048
67	5.65	5.65	864	0.	4.85	354.	800	0.	0.044	777	0.	4.36	0.043
68	5.65	5.65	521	0.	2.93	214.	491	0.	0.027	480	0.	2.70	0.026
69	5.65	5.65	423	0.	2.38	174.	404	0.	0.022	397	0.	2.23	0.022
70	5.65	5.65	2776	0.	15.60	1139.	2536	0.	0.139	2451	0.	13.77	0.134
71	5.65	5.65	2820	0.	15.85	1157.	2567	0.	0.141	2475	0.	13.91	0.136
72	5.65	5.65	2450	0.	13.76	1005.	2230	0.	0.122	2150	0.	12.08	0.118
73	5.65	5.65	2017	0.	11.33	828.	1839	0.	0.101	1775	0.	9.97	0.097
74	5.65	5.65	1787	0.	10.04	733.	1635	0.	0.090	1579	0.	8.87	0.087
75	5.65	5.65	1679	0.	9.43	689.	1544	0.	0.085	1494	0.	8.40	0.082
76	5.65	5.65	3815	0.	21.44	1565.	3476	0.	0.191	3354	0.	18.85	0.184
77	5.65	5.65	3666	0.	20.60	1504.	3335	0.	0.183	3216	0.	18.07	0.176
78	5.65	5.65	3207	0.	18.02	1316.	2922	0.	0.160	2819	0.	15.84	0.155
79	5.65	5.65	2690	0.	15.11	1104.	2460	0.	0.135	2378	0.	13.36	0.130
80	5.65	5.65	2290	0.	12.86	939.	2109	0.	0.116	2045	0.	11.49	0.112
81	5.65	5.65	1966	0.	11.04	806.	1830	0.	0.100	1784	0.	10.02	0.098
82	5.65	5.65	1118	0.	6.28	459.	962	0.	0.053	899	0.	5.05	0.049
83	5.65	5.65	773	0.	4.34	317.	737	0.	0.040	727	0.	4.09	0.040
84	5.65	5.65	1611	0.	9.05	661.	1530	0.	0.084	1508	0.	8.47	0.083
85	5.65	5.65	2234	0.	12.55	917.	2115	0.	0.116	2083	0.	11.70	0.114
86	5.65	5.65	2795	0.	15.70	1147.	2612	0.	0.143	2554	0.	14.35	0.140
87	5.65	5.65	3938	0.	22.13	1616.	3655	0.	0.200	3559	0.	20.00	0.195
88	5.65	5.65	4209	0.	23.65	1727.	3885	0.	0.213	3773	0.	21.20	0.207
89	5.65	5.65	4244	0.	23.84	1741.	3896	0.	0.214	3773	0.	21.20	0.207
90	5.65	5.65	4281	0.	24.05	1756.	3912	0.	0.215	3781	0.	21.24	0.207
91	5.65	5.65	1369	0.	7.69	562.	1332	0.	0.073	1325	0.	7.45	0.073
92	5.65	5.65	1308	0.	7.35	536.	1279	0.	0.070	1275	0.	7.16	0.070
93	5.65	5.65	1400	0.	7.87	574.	1363	0.	0.075	1355	0.	7.61	0.074
94	5.65	5.65	1155	0.	6.49	474.	1150	0.	0.063	1154	0.	6.48	0.063
95	5.65	5.65	941	0.	5.29	386.	964	0.	0.053	980	0.	5.50	0.054
96	5.65	5.65	4217	0.	23.69	1730.	3844	0.	0.211	3710	0.	20.84	0.203
97	5.65	5.65	3951	0.	22.20	1621.	3601	0.	0.198	3475	0.	19.52	0.191
98	5.65	5.65	3457	0.	19.42	1418.	3159	0.	0.173	3053	0.	17.15	0.167
99	5.65	5.65	2829	0.	15.89	1160.	2605	0.	0.143	2526	0.	14.19	0.139
100	5.65	5.65	2036	0.	11.44	835.	1911	0.	0.105	1870	0.	10.51	0.103
101	5.65	5.65	1582	0.	8.89	649.	1515	0.	0.083	1497	0.	8.41	0.082
102	5.65	5.65	2259	0.	12.69	927.	2014	0.	0.110	1918	0.	10.78	0.105
103	5.65	5.65	2148	0.	12.07	881.	1986	0.	0.109	1929	0.	10.84	0.106
104	5.65	5.65	2642	0.	14.84	1084.	2445	0.	0.134	2378	0.	13.36	0.130
105	5.65	5.65	2958	0.	16.62	1213.	2733	0.	0.150	2655	0.	14.92	0.146
106	5.65	5.65	3068	0.	17.24	1259.	2772	0.	0.152	2658	0.	14.93	0.146
107	5.65	5.65	3073	0.	17.27	1261.	2806	0.	0.154	2718	0.	15.27	0.149
108	5.65	5.65	3256	0.	18.29	1336.	2993	0.	0.164	2902	0.	16.31	0.159
109	5.65	5.65	3699	0.	20.78	1518.	3379	0.	0.185	3260	0.	18.32	0.179
110	5.65	5.65	3079	0.	17.30	1263.	2836	0.	0.156	2747	0.	15.43	0.151
111	5.65	5.65	3111	0.	17.48	1276.	2837	0.	0.156	2734	0.	15.36	0.150
112	5.65	5.65	3284	0.	18.45	1347.	3002	0.	0.165	2896	0.	16.27	0.159
113	5.65	5.65	3510	0.	19.72	1440.	3216	0.	0.176	3106	0.	17.45	0.170
114	5.65	5.65	2448	0.	13.75	1004.	2269	0.	0.124	2205	0.	12.39	0.121
115	5.65	5.65	2259	0.	12.69	927.	2098	0.	0.115	2041	0.	11.47	0.112
116	5.65	5.65	2362	0.	13.27	969.	2175	0.	0.119	2103	0.	11.82	0.115
117	5.65	5.65	2343	0.	13.16	961.	2161	0.	0.119	2092	0.	11.75	0.115
118	5.65	5.65	977	0.	5.49	401.	934	0.	0.051	921	0.	5.17	0.051
119	5.65	5.65	777	0.	4.37	319.	752	0.	0.041	745	0.	4.19	0.041
120	5.65	5.65	523	0.	2.94	215.	499	0.	0.027	488	0.	2.74	0.027
121	5.65	5.65	131	0.	0.73	54.	145	0.	0.008	146	0.	0.82	0.008
122	5.65	5.65	3597	0.	20.21	1476.	3304	0.	0.181	3199	0.	17.97	0.175
123	5.65	5.65	4366	0.	24.53	1791.	4017	0.	0.220	3893	0.	21.87	0.214
124	5.65	5.65	4394	0.	24.69	1803.	4036	0.	0.221	3910	0.	21.97	0.214
125	5.65	5.65	4318	0.	24.26	1772.	3958	0.	0.217	3830	0.	21.52	0.210
126	5.65	5.65	4224	0.	23.73	1733.	3863	0.	0.212	3734	0.	20.98	0.205
127	5.65	5.65	4145	0.	23.29	1700.	3795	0.	0.208	3667	0.	20.60	0.201
128	5.65	5.65	4391	0.	24.67	1801.	4025	0.	0.221	3892	0.	21.87	0.213
129	5.65	5.65	4321	0.	24.28	1773.	3964	0.	0.217	3834	0.	21.54	0.210
130	5.65	5.65	4122	0.	23.16	1691.	3781	0.	0.207	3658	0.	20.55	0.201
131	5.65	5.65	3892	0.	21.87	1597.	3569	0.	0.196	3453	0.	19.40	0.189
132	5.65	5.65	3666	0.	20.60	1504.	3364	0.	0.184	3252	0.	18.27	0.178
133	5.65	5.65	3702	0.	20.80	1519.	3401	0.	0.187	3290	0.	18.49	0.180
134	5.65	5.65	3549	0.	19.94	1456.	3264	0.	0.179	3160	0.	17.75	0.173
135	5.65	5.65	3297	0.	18.53	1353.	3037	0.	0.167	2942	0.	16.53	0.161
136	5.65	5.65	3174	0.	17.83	1302.	2913	0.	0.160	2818	0.	15.83	0.155
137	5.65	5.65	2236	0.	12.57	918.	2069	0.	0.113	2005	0.	11.26	0.110
138	5.65	5.65	2131	0.	11.97	874.	1977	0.	0.108	1918	0.	10.78	0.105
139	5.65	5.65	1912	0.	10.74	785.	1783	0.	0.098	1730	0.	9.72	0.095
140	5.65	5.65	1586	0.	8.91	651.	1489	0.	0.082	1449	0.	8.14	0.079
141	5.65	5.65	1740	0.	9.78	714.	1616	0.	0.089	1567	0.	8.80	0.086
142	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
143	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
144	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
145	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
146	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
147	5.65												

150	5.65	5.65	1231	0.	6.92	505.	1196	0.	0.0661	1187	0.	6.67	0.065
151	5.65	5.65	1165	0.	6.55	478.	1145	0.	0.063	1142	0.	6.42	0.063
152	5.65	5.65	2485	0.	13.96	1020.	2315	0.	0.127	2255	0.	12.67	0.124
153	5.65	5.65	2241	0.	12.59	920.	2098	0.	0.115	2048	0.	11.50	0.112
154	5.65	5.65	2126	0.	11.95	872.	1955	0.	0.107	1892	0.	10.63	0.104
155	5.65	5.65	2184	0.	12.27	896.	2002	0.	0.110	1934	0.	10.87	0.106
156	5.65	5.65	2245	0.	12.61	921.	2054	0.	0.113	1982	0.	11.14	0.109
157	5.65	5.65	2511	0.	14.11	1030.	2269	0.	0.124	2183	0.	12.26	0.120
158	5.65	5.65	2456	0.	13.80	1008.	2237	0.	0.123	2154	0.	12.10	0.118
159	5.65	5.65	2368	0.	13.30	971.	2152	0.	0.118	2070	0.	11.63	0.114
160	5.65	5.65	2349	0.	13.20	964.	2127	0.	0.117	2043	0.	11.48	0.112
161	5.65	5.65	2359	0.	13.25	968.	2130	0.	0.117	2042	0.	11.47	0.112
162	5.65	5.65	1718	0.	9.65	705.	1557	0.	0.085	1493	0.	8.39	0.082
163	5.65	5.65	1911	0.	10.74	784.	1736	0.	0.095	1667	0.	9.37	0.091
164	5.65	5.65	1843	0.	10.36	756.	1666	0.	0.091	1596	0.	8.97	0.088
165	5.65	5.65	1759	0.	9.88	722.	1581	0.	0.087	1511	0.	8.49	0.083
166	5.65	5.65	1703	0.	9.57	699.	1524	0.	0.084	1466	0.	8.24	0.080
167	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
168	5.65	5.65	203	0.	1.14	83.	178	0.	0.010	161	0.	0.91	0.009
169	5.65	5.65	617	0.	3.47	253.	547	0.	0.030	516	0.	2.90	0.028
170	5.65	5.65	537	0.	3.02	220.	465	0.	0.026	434	0.	2.44	0.024
171	5.65	5.65	549	0.	3.08	225.	513	0.	0.028	500	0.	2.81	0.027
172	5.65	5.65	4065	0.	22.84	1668.	3714	0.	0.204	3588	0.	20.16	0.197
173	5.65	5.65	3791	0.	21.30	1555.	3466	0.	0.190	3350	0.	18.82	0.184
174	5.65	5.65	3369	0.	18.93	1382.	3092	0.	0.170	2993	0.	16.82	0.164
175	5.65	5.65	2808	0.	15.78	1152.	2600	0.	0.143	2528	0.	14.20	0.139
176	5.65	5.65	2278	0.	12.80	935.	2141	0.	0.117	2096	0.	11.78	0.115
177	5.65	5.65	1975	0.	11.10	810.	1876	0.	0.103	1846	0.	10.37	0.101
178	5.65	5.65	3650	0.	20.51	1497.	3348	0.	0.184	3239	0.	18.20	0.178
179	5.65	5.65	3408	0.	19.15	1398.	3132	0.	0.172	3032	0.	17.03	0.166
180	5.65	5.65	3168	0.	17.80	1300.	2920	0.	0.160	2832	0.	15.91	0.155
181	5.65	5.65	2943	0.	16.53	1207.	2724	0.	0.149	2647	0.	14.87	0.145
182	5.65	5.65	2794	0.	15.70	1146.	2594	0.	0.142	2523	0.	14.18	0.138
183	5.65	5.65	2659	0.	14.94	1091.	2472	0.	0.136	2406	0.	13.52	0.132
184	5.65	5.65	3181	0.	17.87	1305.	2915	0.	0.160	2817	0.	15.83	0.155
185	5.65	5.65	2959	0.	16.62	1214.	2708	0.	0.149	2615	0.	14.69	0.143
186	5.65	5.65	2693	0.	15.13	1105.	2488	0.	0.136	2417	0.	13.58	0.133
187	5.65	5.65	2715	0.	15.25	1114.	2517	0.	0.138	2446	0.	13.74	0.134
188	5.65	5.65	2714	0.	15.25	1114.	2517	0.	0.138	2446	0.	13.74	0.134
189	5.65	5.65	2566	0.	14.42	1053.	2388	0.	0.131	2327	0.	13.07	0.128
190	5.65	5.65	2082	0.	11.70	854.	1925	0.	0.106	1865	0.	10.48	0.102
191	5.65	5.65	2097	0.	11.78	860.	1933	0.	0.106	1871	0.	10.51	0.103
192	5.65	5.65	1941	0.	10.91	796.	1786	0.	0.098	1735	0.	9.75	0.095
193	5.65	5.65	2017	0.	11.33	827.	1882	0.	0.103	1833	0.	10.30	0.101
194	5.65	5.65	1915	0.	10.76	786.	1785	0.	0.098	1737	0.	9.76	0.095
195	5.65	5.65	1665	0.	9.35	683.	1534	0.	0.084	1484	0.	8.34	0.081
196	5.65	5.65	0.	0.	0.00	0.	1	0.	0.000	9	0.	0.05	0.000
197	5.65	5.65	758	0.	4.26	311.	718	0.	0.039	698	0.	3.92	0.038
198	5.65	5.65	978	0.	5.50	401.	934	0.	0.051	915	0.	5.14	0.050
199	5.65	5.65	761	0.	4.28	312.	733	0.	0.040	721	0.	4.05	0.040
200	5.65	5.65	7	0.	0.04	3.	26	0.	0.001	27	0.	0.15	0.001
201	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
439	5.65	5.65	390	0.	2.19	160.	308	0.	0.017	273	0.	1.53	0.015
440	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
441	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
442	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
443	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
444	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
445	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
446	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
447	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
448	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
449	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
450	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
451	5.65	5.65	12	0.	0.07	5.	0.	0.	0.000	0.	0.	0.00	0.000
452	5.65	5.65	134	0.	0.75	55.	77	0.	0.004	50	0.	0.28	0.003
453	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
454	5.65	5.65	203	0.	1.14	83.	178	0.	0.010	165	0.	0.93	0.009
455	5.65	5.65	391	0.	2.19	160.	346	0.	0.019	327	0.	1.84	0.018
456	5.65	5.65	83	0.	0.47	34.	84	0.	0.005	84	0.	0.47	0.005
457	5.65	5.65	477	0.	2.68	196.	443	0.	0.024	430	0.	2.42	0.024
458	5.65	5.65	354	0.	1.99	145.	333	0.	0.018	325	0.	1.82	0.018

MACROGUSCIO fondazione_piano_pri

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

CASI DI CARICO: ->

Nome	Descrizione
1	SLU SENZA SISMA
4	SLU con SISMAX PRINC
5	SLU con SISMAX PRINC
11	SLUEqu

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	249	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	5	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

LEGENDA:

spess = spessore guscio. Verifica effettuata su sezione BxH, con B=1 cm e H="spess" cm
Af = area disposta al lembo teso, in cm2 al metro
Afc = area disposta al lembo compresso, in cm2 al metro

Mom = momento flettente [kgfm/m]
 Nor = sforzo normale [dan]
 epsC = deformazione cls [per mille]
 epsF = deformazione acciaio [per mille]

<- L'armatura è sufficiente se le deformazioni dei materiali sono ovunque minori delle corrispondenti deformazioni ultime.

INFERIORE ORIZZONTALE										INFERIORE VERTICALE									
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
334	50	5.65	5.65	2399.	1.	0.09	0.47	5.65	5.65	2815.	2.	0.11	0.56	5.65	5.65	2338.	1.	0.09	0.46
335	50	5.65	5.65	528.	1.	0.02	0.11	5.65	5.65	1730.	1.	0.06	0.34	5.65	5.65	1192.	1.	0.04	0.24
336	50	5.65	5.65	213.	2.	0.00	0.05	5.65	5.65	774.	1.	0.03	0.16	5.65	5.65	4407.	0.	0.18	0.86
337	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	2304.	0.	0.09	0.45	5.65	5.65	0.	0.	0.00	0.00
338	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
339	50	5.65	5.65	2359.	1.	0.09	0.46	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
340	50	5.65	5.65	655.	1.	0.02	0.13	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
341	50	5.65	5.65	0.	1.	0.00	0.01	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
342	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
343	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
344	50	5.65	5.65	1603.	0.	0.06	0.31	5.65	5.65	3576.	0.	0.14	0.70	5.65	5.65	1872.	0.	0.07	0.37
345	50	5.65	5.65	1278.	0.	0.05	0.25	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
346	50	5.65	5.65	91.	0.	0.00	0.02	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
347	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
348	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
349	50	5.65	5.65	1306.	0.	0.05	0.25	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
350	50	5.65	5.65	1515.	0.	0.06	0.30	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
351	50	5.65	5.65	626.	0.	0.03	0.12	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
352	50	5.65	5.65	8.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
353	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
354	50	5.65	5.65	1748.	0.	0.07	0.34	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
355	50	5.65	5.65	2094.	0.	0.08	0.41	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
356	50	5.65	5.65	1638.	0.	0.07	0.32	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
357	50	5.65	5.65	1034.	0.	0.04	0.20	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
358	50	5.65	5.65	320.	0.	0.01	0.06	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
359	50	5.65	5.65	3756.	0.	0.15	0.73	5.65	5.65	3741.	0.	0.15	0.73	5.65	5.65	3167.	0.	0.13	0.62
360	50	5.65	5.65	2748.	0.	0.11	0.54	5.65	5.65	1697.	0.	0.07	0.33	5.65	5.65	0.	0.	0.00	0.00
361	50	5.65	5.65	2432.	0.	0.10	0.47	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
362	50	5.65	5.65	2565.	0.	0.10	0.50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
363	50	5.65	5.65	1535.	0.	0.06	0.30	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
364	50	5.65	5.65	5107.	0.	0.20	1.00	5.65	5.65	9631.	0.	0.40	2.11	5.65	5.65	7451.	0.	0.30	1.45
365	50	5.65	5.65	3193.	0.	0.13	0.62	5.65	5.65	4472.	0.	0.18	0.87	5.65	5.65	2539.	0.	0.10	0.50
366	50	5.65	5.65	2841.	0.	0.11	0.55	5.65	5.65	1319.	0.	0.05	0.26	5.65	5.65	616.	1.	0.02	0.12
367	50	5.65	5.65	3563.	0.	0.14	0.70	5.65	5.65	512.	1.	0.02	0.10	5.65	5.65	744.	0.	0.03	0.15
368	50	5.65	5.65	2784.	0.	0.11	0.54	5.65	5.65	888.	0.	0.03	0.18	5.65	5.65	1048.	1.	0.04	0.21
369	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	1450.	1.	0.06	0.29	5.65	5.65	0.	0.	0.00	0.00
370	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
371	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
372	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
373	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
374	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
375	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
376	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
377	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
378	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
379	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
380	50	5.65	5.65	0.	1.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
381	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
382	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
383	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
384	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
385	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
386	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
387	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
388	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
389	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
390	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
391	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
392	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
393	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
394	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
395	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
396	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
397	50	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00	5.65	5.65	0.	0.	0.00	0.00
398	50</																		

341	50	5.65	5.65	2371.	1.	0.08	0.45	5.65	5.65	5056.	0.	0.18	0.94
342	50	5.65	5.65	1991.	0.	0.07	0.37	5.65	5.65	3882.	0.	0.14	0.72
343	50	5.65	5.65	1760.	0.	0.06	0.33	5.65	5.65	3515.	0.	0.13	0.65
344	50	5.65	5.65	2961.	0.	0.11	0.55	5.65	5.65	5476.	0.	0.20	1.02
345	50	5.65	5.65	3117.	0.	0.11	0.58	5.65	5.65	4226.	0.	0.15	0.79
346	50	5.65	5.65	2692.	0.	0.10	0.50	5.65	5.65	3858.	0.	0.14	0.72
347	50	5.65	5.65	2344.	0.	0.08	0.44	5.65	5.65	4258.	0.	0.15	0.79
348	50	5.65	5.65	2091.	0.	0.08	0.39	5.65	5.65	4272.	0.	0.15	0.79
349	50	5.65	5.65	2787.	0.	0.10	0.52	5.65	5.65	3817.	0.	0.14	0.71
350	50	5.65	5.65	3164.	0.	0.11	0.59	5.65	5.65	4000.	0.	0.14	0.74
351	50	5.65	5.65	2752.	0.	0.10	0.51	5.65	5.65	4222.	0.	0.15	0.78
352	50	5.65	5.65	2463.	0.	0.09	0.46	5.65	5.65	4472.	0.	0.16	0.83
353	50	5.65	5.65	2444.	0.	0.09	0.45	5.65	5.65	4514.	0.	0.16	0.84
354	50	5.65	5.65	3066.	0.	0.11	0.57	5.65	5.65	4816.	0.	0.17	0.90
355	50	5.65	5.65	3239.	0.	0.12	0.60	5.65	5.65	4792.	0.	0.17	0.89
356	50	5.65	5.65	2659.	0.	0.10	0.49	5.65	5.65	4726.	0.	0.17	0.88
357	50	5.65	5.65	2428.	0.	0.09	0.45	5.65	5.65	4780.	0.	0.17	0.89
358	50	5.65	5.65	2942.	0.	0.11	0.55	5.65	5.65	4720.	0.	0.17	0.88
359	50	5.65	5.65	4807.	0.	0.17	0.89	5.65	5.65	6486.	0.	0.23	1.21
360	50	5.65	5.65	3810.	0.	0.14	0.71	5.65	5.65	5994.	0.	0.22	1.11
361	50	5.65	5.65	2558.	0.	0.09	0.48	5.65	5.65	5562.	0.	0.20	1.03
362	50	5.65	5.65	2146.	0.	0.08	0.40	5.65	5.65	5148.	0.	0.19	0.96
363	50	5.65	5.65	3397.	0.	0.12	0.63	5.65	5.65	4860.	0.	0.18	0.90
364	50	5.65	5.65	6166.	0.	0.22	1.15	5.65	5.65	8791.	0.	0.32	1.63
365	50	5.65	5.65	4361.	0.	0.16	0.81	5.65	5.65	6676.	0.	0.24	1.24
366	50	5.65	5.65	2605.	0.	0.09	0.48	5.65	5.65	5244.	0.	0.19	0.98
367	50	5.65	5.65	1827.	0.	0.07	0.34	5.65	5.65	4562.	0.	0.16	0.85
368	50	5.65	5.65	3659.	0.	0.13	0.68	5.65	5.65	4284.	0.	0.15	0.80
369	50	5.65	5.65	1001.	1.	0.03	0.19	5.65	5.65	1533.	2.	0.05	0.29
370	50	5.65	5.65	884.	0.	0.03	0.17	5.65	5.65	1218.	2.	0.04	0.23
371	50	5.65	5.65	748.	0.	0.03	0.14	5.65	5.65	940.	1.	0.03	0.18
372	50	5.65	5.65	912.	0.	0.03	0.17	5.65	5.65	1048.	1.	0.04	0.20
373	50	5.65	5.65	1031.	1.	0.03	0.19	5.65	5.65	1140.	2.	0.04	0.22
374	50	5.65	5.65	1186.	0.	0.04	0.22	5.65	5.65	1291.	2.	0.04	0.25
375	50	5.65	5.65	1284.	0.	0.04	0.24	5.65	5.65	3368.	0.	0.12	0.63
376	50	5.65	5.65	1161.	0.	0.04	0.22	5.65	5.65	3194.	0.	0.12	0.59
377	50	5.65	5.65	1012.	0.	0.04	0.19	5.65	5.65	2971.	0.	0.11	0.55
378	50	5.65	5.65	1196.	0.	0.04	0.22	5.65	5.65	3120.	0.	0.11	0.58
379	50	5.65	5.65	1347.	1.	0.05	0.25	5.65	5.65	3321.	0.	0.12	0.62
380	50	5.65	5.65	1451.	0.	0.05	0.27	5.65	5.65	3493.	0.	0.13	0.65
381	50	5.65	5.65	1837.	0.	0.07	0.34	5.65	5.65	4226.	0.	0.15	0.79
382	50	5.65	5.65	1687.	0.	0.06	0.31	5.65	5.65	4099.	0.	0.15	0.76
383	50	5.65	5.65	1514.	0.	0.05	0.28	5.65	5.65	3894.	0.	0.14	0.72
384	50	5.65	5.65	1756.	0.	0.06	0.33	5.65	5.65	4132.	0.	0.15	0.77
385	50	5.65	5.65	1982.	0.	0.07	0.37	5.65	5.65	4456.	0.	0.16	0.83
386	50	5.65	5.65	2005.	0.	0.07	0.37	5.65	5.65	4715.	0.	0.17	0.88
387	50	5.65	5.65	2303.	0.	0.08	0.43	5.65	5.65	4479.	0.	0.16	0.83
388	50	5.65	5.65	2135.	0.	0.08	0.40	5.65	5.65	4316.	0.	0.16	0.80
389	50	5.65	5.65	1968.	0.	0.07	0.37	5.65	5.65	4067.	0.	0.15	0.76
390	50	5.65	5.65	2324.	0.	0.08	0.43	5.65	5.65	4475.	0.	0.16	0.83
391	50	5.65	5.65	2636.	0.	0.10	0.49	5.65	5.65	4963.	0.	0.18	0.92
392	50	5.65	5.65	2675.	0.	0.10	0.50	5.65	5.65	5360.	0.	0.19	1.00
393	50	5.65	5.65	2904.	0.	0.10	0.54	5.65	5.65	4443.	0.	0.16	0.83
394	50	5.65	5.65	2671.	0.	0.10	0.50	5.65	5.65	4049.	0.	0.15	0.75
395	50	5.65	5.65	2449.	0.	0.09	0.46	5.65	5.65	3619.	0.	0.13	0.67
396	50	5.65	5.65	2963.	0.	0.11	0.55	5.65	5.65	4190.	0.	0.15	0.78
397	50	5.65	5.65	3410.	0.	0.12	0.63	5.65	5.65	4872.	0.	0.18	0.91
398	50	5.65	5.65	3555.	0.	0.13	0.66	5.65	5.65	5430.	0.	0.20	1.01
399	50	5.65	5.65	3427.	0.	0.12	0.64	5.65	5.65	4385.	0.	0.16	0.82
400	50	5.65	5.65	3122.	0.	0.11	0.58	5.65	5.65	3657.	0.	0.13	0.68
401	50	5.65	5.65	2830.	0.	0.10	0.53	5.65	5.65	2928.	0.	0.11	0.54
402	50	5.65	5.65	3463.	0.	0.13	0.64	5.65	5.65	3799.	0.	0.14	0.71
403	50	5.65	5.65	4050.	0.	0.15	0.75	5.65	5.65	4956.	0.	0.18	0.92
404	50	5.65	5.65	4400.	0.	0.16	0.82	5.65	5.65	5955.	0.	0.22	1.11
405	50	5.65	5.65	3852.	0.	0.14	0.72	5.65	5.65	3962.	0.	0.14	0.74
406	50	5.65	5.65	3483.	0.	0.13	0.65	5.65	5.65	2532.	0.	0.09	0.47
407	50	5.65	5.65	3114.	0.	0.11	0.58	5.65	5.65	1445.	0.	0.05	0.27
408	50	5.65	5.65	3835.	0.	0.14	0.71	5.65	5.65	2716.	0.	0.10	0.50
409	50	5.65	5.65	4530.	0.	0.16	0.84	5.65	5.65	4646.	0.	0.17	0.86
410	50	5.65	5.65	5031.	0.	0.18	0.94	5.65	5.65	7117.	0.	0.26	1.32
418	50	5.65	5.65	770.	1.	0.02	0.15	5.65	5.65	1344.	3.	0.04	0.26
419	50	5.65	5.65	970.	1.	0.03	0.18	5.65	5.65	3592.	0.	0.13	0.67
420	50	5.65	5.65	1570.	0.	0.06	0.29	5.65	5.65	4929.	0.	0.18	0.92
421	50	5.65	5.65	2276.	0.	0.08	0.42	5.65	5.65	5697.	0.	0.21	1.06
422	50	5.65	5.65	3480.	0.	0.13	0.65	5.65	5.65	5907.	0.	0.21	1.10
423	50	5.65	5.65	4872.	0.	0.18	0.91	5.65	5.65	6827.	0.	0.25	1.27
424	50	5.65	5.65	5971.	0.	0.22	1.11	5.65	5.65	9251.	0.	0.33	1.72

L'ARMATURA È OVUNQUE > DELLA QUANTITÀ RICHIESTA: IL PUNTO 2.3 DELLE NTC È VERIFICATO (Rd > Ed)

MACROGUSCIO fondazione_piano_pri

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

CASI DI CARICO: ->

Nome	Descrizione
12	Rara (RARA)
13	Frequente (FREQUENTE)
14	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 5 cm
copriferro superiore (asse armatura): 3 cm

Af = area effettiva tesa (cm2 al metro)
Afc = area effettiva compressa (cm2 al metro)
Mom = momento flettente [kgfm/m]
Nor = sforzo normale [daN]
sigC = tensione calcestruzzo [daN/cm2]
valore max per combinazione rara = 149.4 daN/cm2
quasi permanente = 112 daN/cm2
sigF = tensione acciaio [daN/cm2]
valore max per combinazione rara = 3600 daN/cm2

wkF = apertura caratteristica per combinazione frequente (mm) - valore max = 0.4 mm
 wkP = apertura caratteristica per combinazione quasi permanente (mm) - valore max = 0.3 mm

<-

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA						COMB. FREQUENTE			COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	sigC	sigF	Mom	Nor	wkF	Mom	Nor	sigC	wkP
334	5.65	5.65	594	0.	3.33	247.	549	0.	0.031	535	0.	3.00	0.030
335	5.65	5.65	344	0.	1.93	145.	300	0.	0.017	281	0.	1.58	0.016
336	5.65	5.65	0.	0.	0.00	4.	0.	0.	0.001	0.	0.	0.00	0.001
337	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.001	0.	0.	0.00	0.001
338	5.65	5.65	0.	0.	0.00	3.	0.	0.	0.001	0.	0.	0.00	0.001
339	5.65	5.65	164	0.	0.92	69.	153	0.	0.009	149	0.	0.83	0.009
340	5.65	5.65	0.	0.	0.00	3.	0.	0.	0.001	0.	0.	0.00	0.001
341	5.65	5.65	0.	0.	0.00	3.	0.	0.	0.001	0.	0.	0.00	0.001
342	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000	0.	0.	0.00	0.000
343	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000	0.	0.	0.00	0.000
344	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
345	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
346	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
347	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
348	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
349	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
350	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
351	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
352	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
353	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
354	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
355	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
356	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
357	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
358	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
359	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
360	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
361	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
362	5.65	5.65	557	0.	3.13	229.	468	0.	0.026	445	0.	2.50	0.024
363	5.65	5.65	268	0.	1.50	110.	219	0.	0.012	208	0.	1.17	0.011
364	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
365	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
366	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
367	5.65	5.65	1045	0.	5.87	429.	910	0.	0.050	875	0.	4.91	0.048
368	5.65	5.65	922	0.	5.18	378.	813	0.	0.045	786	0.	4.41	0.043
369	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000	0.	0.	0.00	0.000
370	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000	0.	0.	0.00	0.000
371	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000	0.	0.	0.00	0.000
372	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000	0.	0.	0.00	0.000
373	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
374	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000	0.	0.	0.00	0.000
375	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
376	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
377	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
378	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
379	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
380	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
381	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
382	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
383	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
384	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
385	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
386	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
387	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
388	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
389	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
390	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
391	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
392	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
393	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
394	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
395	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
396	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
397	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
398	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
399	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
400	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
401	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
402	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
403	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
404	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
405	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
406	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
407	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
408	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
409	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
410	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
418	5.65	5.65	0.	0.	0.00	2.	0.	0.	0.000	0.	0.	0.00	0.000
419	5.65	5.65	0.	0.	0.00	1.	0.	0.	0.000	0.	0.	0.00	0.000
420	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
421	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
422	5.65	5.65	8	0.	0.05	3.	2	0.	0.000	3	0.	0.02	0.000
423	5.65	5.65	639	0.	3.59	262.	569	0.	0.031	555	0.	3.12	0.030
424	5.65	5.65	1277	0.	7.17	524.	1151	0.	0.063	1122	0.	6.31	0.062

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA						COMB. FREQUENTE			COMB. QUASI PERMANENTE			
	Af	Afc	Mom	Nor	sigC	sigF	Mom	Nor	wkF	Mom	Nor	sigC	wkP
334	5.65	5.65	905	1	5.08	379.	882	1	0.050	873	1	4.90	0.049
335	5.65	5.65	783	1	4.39	328.	765	1	0.043	757	1	4.25	0.043
336	5.65	5.65	579	1	3.25	245.	572	1	0.033	567	1	3.18	0.032
337	5.65	5.65	191	1	1.07	85.	212	1	0.013	217	1	1.21	0.013
338	5.65	5.65	0.	1	0.00	5.	0.	0.	0.001	0.	0.	0.00	0.001
339	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
340	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
341	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000

342	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
343	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
344	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
345	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
346	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
347	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
348	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
349	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
350	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
351	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
352	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
353	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
354	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
355	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
356	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
357	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
358	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
359	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
360	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
361	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
362	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
363	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
364	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
365	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
366	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
367	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
368	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
369	5.65	5.65	0.	0.	0.00	4.	0.	0.0001	0.	0.	0.00	0.001
370	5.65	5.65	0.	0.	0.00	3.	0.	0.0001	0.	0.	0.00	0.001
371	5.65	5.65	0.	0.	0.00	2.	0.	0.0001	0.	0.	0.00	0.001
372	5.65	5.65	61	0.	0.34	27.	72	0.0004	74	0.	0.41	0.004
373	5.65	5.65	153	0.	0.86	64.	164	0.0009	166	0.	0.93	0.009
374	5.65	5.65	120	0.	0.67	52.	151	0.0009	156	0.	0.87	0.009
375	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
376	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
377	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
378	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
379	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
380	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
381	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
382	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
383	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
384	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
385	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
386	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
387	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
388	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
389	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
390	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
391	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
392	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
393	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
394	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
395	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
396	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
397	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
398	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
399	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
400	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
401	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
402	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
403	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
404	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
405	5.65	5.65	7	0.	0.04	3.	0.	0.0000	0.	0.	0.00	0.000
406	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
407	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
408	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
409	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
410	5.65	5.65	583	0.	3.28	239.	527	0.0029	518	0.	2.91	0.028
418	5.65	5.65	111	0.	0.62	50.	154	0.0009	162	0.	0.90	0.010
419	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
420	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
421	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
422	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
423	5.65	5.65	0.	0.	0.00	0.	0.	0.0000	0.	0.	0.00	0.000
424	5.65	5.65	796	0.	4.47	327.	724	0.0040	707	0.	3.97	0.039

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA				COMB. FREQUENTE			COMB. QUASI PERMANENTE			
			Mom	Nor	sigC	sigF	Mom	Nor	WkF	Mom	Nor	sigC	WkP
334	5.65	5.65	1057	0.	5.94	437.	995	0.	0.055	977	0.	5.49	0.054
335	5.65	5.65	1111	0.	6.24	460.	1028	0.	0.057	1003	0.	5.63	0.056
336	5.65	5.65	992	0.	5.57	411.	911	0.	0.051	887	0.	4.98	0.049
337	5.65	5.65	992	0.	5.57	409.	902	0.	0.050	872	0.	4.90	0.048
338	5.65	5.65	1043	0.	5.86	431.	936	0.	0.052	899	0.	5.05	0.050
339	5.65	5.65	820	0.	4.61	339.	775	0.	0.043	761	0.	4.27	0.042
340	5.65	5.65	1022	0.	5.74	422.	954	0.	0.053	935	0.	5.25	0.052
341	5.65	5.65	985	0.	5.53	407.	914	0.	0.051	894	0.	5.02	0.049
342	5.65	5.65	1016	0.	5.71	418.	930	0.	0.051	903	0.	5.07	0.050
343	5.65	5.65	1094	0.	6.15	451.	987	0.	0.054	950	0.	5.34	0.052
344	5.65	5.65	583	0.	3.28	240.	557	0.	0.031	549	0.	3.08	0.030
345	5.65	5.65	898	0.	5.05	369.	852	0.	0.047	839	0.	4.71	0.046
346	5.65	5.65	942	0.	5.29	387.	890	0.	0.049	874	0.	4.91	0.048
347	5.65	5.65	1007	0.	5.66	414.	933	0.	0.051	910	0.	5.11	0.050
348	5.65	5.65	1153	0.	6.48	473.	1046	0.	0.057	1011	0.	5.68	0.056
349	5.65	5.65	389	0.	2.18	160.	384	0.	0.021	381	0.	2.14	0.021
350	5.65	5.65	695	0.	3.90	285.	677	0.	0.037	672	0.	3.77	0.037
351	5.65	5.65	717	0.	4.03	294.	698	0.	0.038	692	0.	3.89	0.038
352	5.65	5.65	821	0.	4.61	337.	775	0.	0.043	761	0.	4.27	0.042
353	5.65	5.65	1167	0.	6.56	479.	1066	0.	0.058	1034	0.	5.81	0.057
354	5.65	5.65	352	0.	1.98	145.	352	0.	0.019	351	0.	1.97	0.019
355	5.65	5.65	729	0.	4.09	299.	701	0.	0.038	698	0.	3.92	0.038
356	5.65	5.65	598	0.	3.36	245.	591	0.	0.032	594	0.	3.34	0.033

357	5.65	5.65	320	0.	1.80	131.	329	0.	0.018	330	0.	1.85	0.018
358	5.65	5.65	1127	0.	6.33	463.	1038	0.	0.057	1010	0.	5.68	0.055
359	5.65	5.65	430	0.	2.41	176.	446	0.	0.024	452	0.	2.54	0.025
360	5.65	5.65	895	0.	5.03	367.	850	0.	0.047	842	0.	4.73	0.046
361	5.65	5.65	686	0.	3.85	281.	671	0.	0.037	671	0.	3.77	0.037
362	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
363	5.65	5.65	1027	0.	5.77	421.	954	0.	0.052	931	0.	5.23	0.051
364	5.65	5.65	503	0.	2.83	206.	528	0.	0.029	537	0.	3.02	0.029
365	5.65	5.65	1006	0.	5.65	413.	947	0.	0.052	935	0.	5.26	0.051
366	5.65	5.65	728	0.	4.09	299.	708	0.	0.039	707	0.	3.97	0.039
367	5.65	5.65	0.	0.	0.00	0.	0.	0.	0.000	0.	0.	0.00	0.000
368	5.65	5.65	862	0.	4.84	354.	809	0.	0.044	793	0.	4.45	0.043
369	5.65	5.65	658	0.	3.70	272.	581	0.	0.032	555	0.	3.12	0.031
370	5.65	5.65	611	0.	3.43	253.	541	0.	0.030	518	0.	2.91	0.029
371	5.65	5.65	472	0.	2.65	195.	442	0.	0.025	434	0.	2.44	0.024
372	5.65	5.65	607	0.	3.41	251.	566	0.	0.031	555	0.	3.12	0.031
373	5.65	5.65	715	0.	4.02	295.	665	0.	0.037	652	0.	3.66	0.036
374	5.65	5.65	819	0.	4.60	338.	758	0.	0.042	742	0.	4.17	0.041
375	5.65	5.65	851	0.	4.78	350.	758	0.	0.042	727	0.	4.08	0.040
376	5.65	5.65	807	0.	4.53	332.	719	0.	0.040	691	0.	3.88	0.038
377	5.65	5.65	670	0.	3.76	276.	600	0.	0.033	587	0.	3.30	0.032
378	5.65	5.65	810	0.	4.55	333.	748	0.	0.041	732	0.	4.11	0.040
379	5.65	5.65	930	0.	5.22	382.	858	0.	0.047	839	0.	4.71	0.046
380	5.65	5.65	1000	0.	5.62	411.	920	0.	0.051	899	0.	5.05	0.050
381	5.65	5.65	1172	0.	6.59	481.	1053	0.	0.058	1014	0.	5.70	0.056
382	5.65	5.65	1124	0.	6.32	461.	1008	0.	0.055	971	0.	5.46	0.053
383	5.65	5.65	995	0.	5.59	409.	894	0.	0.049	862	0.	4.85	0.047
384	5.65	5.65	1160	0.	6.52	476.	1064	0.	0.058	1038	0.	5.83	0.057
385	5.65	5.65	1312	0.	7.37	538.	1202	0.	0.066	1172	0.	6.59	0.064
386	5.65	5.65	1333	0.	7.49	547.	1219	0.	0.067	1190	0.	6.69	0.065
387	5.65	5.65	1419	0.	7.97	582.	1281	0.	0.070	1237	0.	6.95	0.068
388	5.65	5.65	1461	0.	8.21	599.	1315	0.	0.072	1270	0.	7.14	0.070
389	5.65	5.65	1340	0.	7.53	550.	1207	0.	0.066	1167	0.	6.55	0.064
390	5.65	5.65	1572	0.	8.83	645.	1432	0.	0.079	1394	0.	7.83	0.076
391	5.65	5.65	1776	0.	9.98	729.	1618	0.	0.089	1576	0.	8.85	0.086
392	5.65	5.65	1794	0.	10.08	736.	1633	0.	0.090	1592	0.	8.95	0.087
393	5.65	5.65	1667	0.	9.37	684.	1509	0.	0.083	1462	0.	8.21	0.080
394	5.65	5.65	1800	0.	10.11	738.	1624	0.	0.089	1572	0.	8.83	0.086
395	5.65	5.65	1685	0.	9.47	691.	1519	0.	0.083	1471	0.	8.26	0.081
396	5.65	5.65	2023	0.	11.37	830.	1835	0.	0.101	1785	0.	10.03	0.098
397	5.65	5.65	2312	0.	12.99	948.	2098	0.	0.115	2043	0.	11.48	0.112
398	5.65	5.65	2370	0.	13.32	972.	2153	0.	0.118	2098	0.	11.79	0.115
399	5.65	5.65	1927	0.	10.83	791.	1749	0.	0.096	1697	0.	9.54	0.093
400	5.65	5.65	2139	0.	12.02	878.	1933	0.	0.106	1874	0.	10.53	0.103
401	5.65	5.65	2021	0.	11.36	829.	1825	0.	0.100	1768	0.	9.93	0.097
402	5.65	5.65	2464	0.	13.84	1011.	2230	0.	0.122	2168	0.	12.18	0.119
403	5.65	5.65	2847	0.	15.99	1168.	2579	0.	0.141	2511	0.	14.11	0.138
404	5.65	5.65	2992	0.	16.81	1227.	2714	0.	0.149	2644	0.	14.86	0.145
405	5.65	5.65	2093	0.	11.76	859.	1902	0.	0.104	1847	0.	10.38	0.101
406	5.65	5.65	2347	0.	13.19	963.	2123	0.	0.116	2059	0.	11.57	0.113
407	5.65	5.65	2224	0.	12.50	912.	2008	0.	0.110	1948	0.	10.94	0.107
408	5.65	5.65	2732	0.	15.35	1121.	2471	0.	0.136	2402	0.	13.50	0.132
409	5.65	5.65	3176	0.	17.84	1303.	2875	0.	0.158	2799	0.	15.72	0.154
410	5.65	5.65	3373	0.	18.95	1384.	3059	0.	0.168	2979	0.	16.74	0.163
418	5.65	5.65	614	0.	3.45	253.	573	0.	0.032	562	0.	3.16	0.031
419	5.65	5.65	758	0.	4.26	312.	701	0.	0.039	686	0.	3.85	0.038
420	5.65	5.65	1018	0.	5.72	418.	930	0.	0.051	909	0.	5.10	0.050
421	5.65	5.65	1442	0.	8.10	592.	1314	0.	0.072	1282	0.	7.20	0.070
422	5.65	5.65	2003	0.	11.25	822.	1822	0.	0.100	1777	0.	9.98	0.097
423	5.65	5.65	2682	0.	15.07	1100.	2439	0.	0.134	2379	0.	13.37	0.130
424	5.65	5.65	3093	0.	17.38	1269.	2812	0.	0.154	2742	0.	15.41	0.150

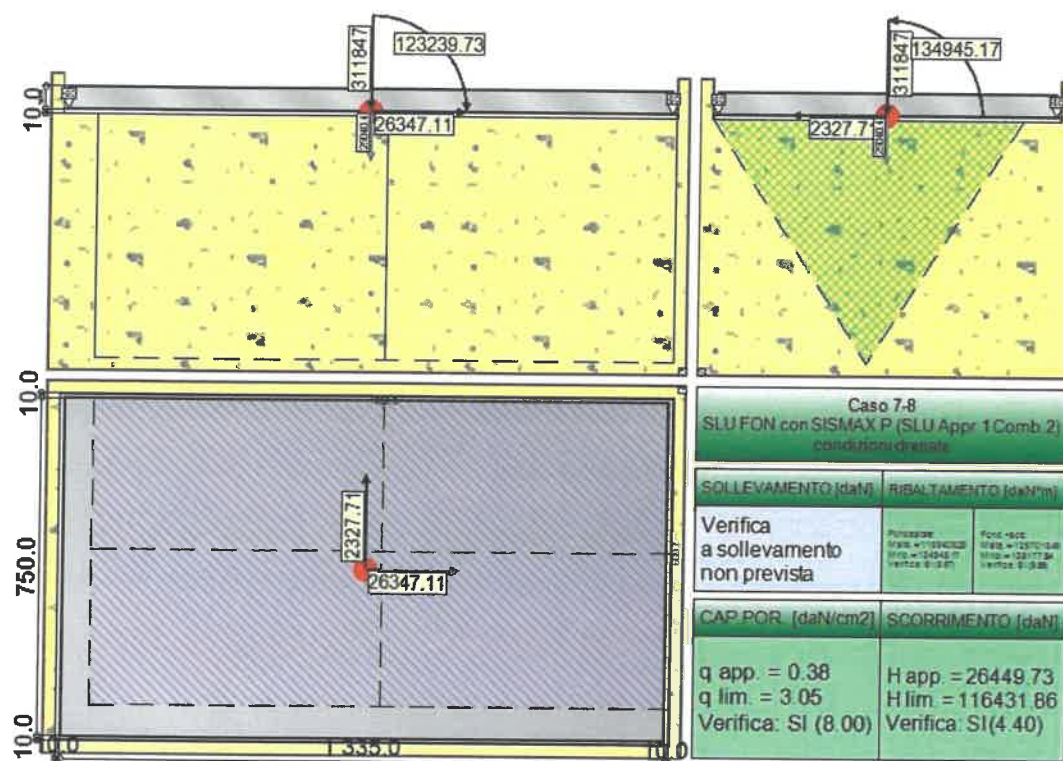
ARMATURA SUPERIORE VERTICALE

GUSCI	Af	Afc	COMBINAZIONE RARA				COMB. FREQUENTE				COMB. QUASI PERMANENTE			
			Mom	Nor	sigC	sigF	Mom	Nor	wkF	Mom	Nor	sigC	wkP	
334	5.65	5.65	835	1	4.69	350.	689	1	0.039	645	1	3.62	0.037	
335	5.65	5.65	836	1	4.69	350.	691	1	0.039	647	1	3.63	0.037	
336	5.65	5.65	896	1	5.03	375.	754	1	0.043	711	1	3.99	0.040	
337	5.65	5.65	956	1	5.37	399.	811	1	0.046	765	1	4.29	0.043	
338	5.65	5.65	815	1	4.58	339.	692	0.	0.039	652	0.	3.66	0.037	
339	5.65	5.65	2071	0.	11.64	850.	1943	0.	0.107	1906	0.	10.71	0.105	
340	5.65	5.65	2162	0.	12.15	887.	2015	0.	0.111	1972	0.	11.08	0.108	
341	5.65	5.65	2288	0.	12.86	939.	2110	0.	0.116	2057	0.	11.55	0.113	
342	5.65	5.65	2412	0.	13.55	990.	2213	0.	0.121	2152	0.	12.09	0.118	
343	5.65	5.65	2418	0.	13.58	992.	2213	0.	0.121	2149	0.	12.08	0.118	
344	5.65	5.65	1964	0.	11.03	806.	1831	0.	0.100	1790	0.	10.05	0.098	
345	5.65	5.65	2256	0.	12.68	926.	2101	0.	0.115	2054	0.	11.54	0.113	
346	5.65	5.65	2717	0.	15.27	1115.	2530	0.	0.139	2475	0.	13.91	0.136	
347	5.65	5.65	3016	0.	16.95	1238.	2796	0.	0.153	2731	0.	15.34	0.150	
348	5.65	5.65	3125	0.	17.56	1282.	2886	0.	0.158	2814	0.	15.81	0.154	
349	5.65	5.65	2740	0.	15.40	1124.	2577	0.	0.141	2537	0.	14.25	0.139	
350	5.65	5.65	2760	0.	15.51	1132.	2594	0.	0.142	2552	0.	14.34	0.140	
351	5.65	5.65	2955	0.	16.60	1212.	2755	0.	0.151	2699	0.	15.16	0.148	
352	5.65	5.65	3185	0.	17.89	1307.	2956	0.	0.162	2891	0.	16.24	0.159	
353	5.65	5.65	3304	0.	18.56	1355.	3055	0.	0.168	2983	0.	16.76	0.164	
354	5.65	5.65	2663	0.	14.96	1092.	2497	0.	0.137	2457	0.	13.81	0.135	
355	5.65	5.65	2698	0.	15.16	1107.	2525	0.	0.138	2484	0.	13.95	0.136	
356	5.65	5.65	2777	0.	15.60	1139.	2594	0.	0.142	2545	0.	14.30	0.140	
357	5.65	5.65	2977	0.	16.72	1221.	2763	0.	0.152	2705	0.	15.20	0.148	
358	5.65	5.65	3105	0.	17.44	1274.	2868	0.	0.157	2803	0.	15.75	0.154	
359	5.65	5.65	1827	0.	10.27	750.	1704	0.	0.093	1686	0.	9.47	0.092	
360	5.65	5.65	1978	0.	11.11	812.	1839	0.	0.101	1808	0.	10.16	0.099	
361	5.65	5.65	2031	0.	11.41	833.	1907	0.	0.105	1875	0.	10.54	0.103	
362	5.65	5.65	2326	0.	13.07	954.	2161	0.	0.119	2118	0.	11.90	0.116	
363	5.65	5.65	2550	0.	14.33	1046.	2352	0.	0.129	2300	0.	12.92	0.126	
364	5.65	5.65	414	0.	2.33	170.	368	0.	0.020	358	0.	2.01	0.020	
365	5.65	5.65	752	0.	4.22	308.	680	0.	0.037	664	0.	3.73	0.036	
366	5.65	5.65	895	0.	5.03	367.	830	0.	0.046	815	0.	4.58	0.045	
367	5.65	5.65	881	0.	4.95	362.	830	0.	0.046	818	0.	4.59	0.045	
368	5.65	5.65	1386	0.	7.79	569.	1281	0.	0.070	1254	0.	7.05	0.069	
369	5.65	5.65	632	0.	3.55	263.	539	0.	0.030	508	0.	2.85	0.029	
370	5.65	5.65	389	0.	2.18	163.	331	0.	0.019	312	0.	1.75	0.018	
371	5.65	5.65	149	0.	0.83	63.	144	0.	0.008	145	0.	0.81	0.008	

372	5.65	5.65	216	0.	1.21	91.	208	0.	0.012	208	0.	1.17	0.012
373	5.65	5.65	284	0.	1.59	118.	265	0.	0.015	264	0.	1.48	0.015
374	5.65	5.65	300	0.	1.68	126.	263	0.	0.015	259	0.	1.45	0.015
375	5.65	5.65	2331	0.	13.10	956.	2133	0.	0.117	2071	0.	11.64	0.114
376	5.65	5.65	2178	0.	12.24	893.	1996	0.	0.109	1939	0.	10.89	0.106
377	5.65	5.65	1989	0.	11.18	816.	1827	0.	0.100	1785	0.	10.03	0.098
378	5.65	5.65	2088	0.	11.73	857.	1939	0.	0.106	1897	0.	10.66	0.104
379	5.65	5.65	2226	0.	12.51	913.	2058	0.	0.113	2011	0.	11.30	0.110
380	5.65	5.65	2349	0.	13.20	964.	2163	0.	0.119	2111	0.	11.86	0.116
381	5.65	5.65	3099	0.	17.41	1271.	2855	0.	0.157	2782	0.	15.63	0.153
382	5.65	5.65	2980	0.	16.74	1223.	2744	0.	0.151	2672	0.	15.01	0.147
383	5.65	5.65	2816	0.	15.82	1155.	2594	0.	0.142	2526	0.	14.19	0.139
384	5.65	5.65	2972	0.	16.70	1219.	2752	0.	0.151	2689	0.	15.11	0.147
385	5.65	5.65	3206	0.	18.01	1315.	2959	0.	0.162	2889	0.	16.23	0.158
386	5.65	5.65	3438	0.	19.31	1410.	3165	0.	0.174	3089	0.	17.36	0.169
387	5.65	5.65	3276	0.	18.41	1344.	3021	0.	0.166	2947	0.	16.56	0.162
388	5.65	5.65	3131	0.	17.59	1285.	2883	0.	0.158	2811	0.	15.79	0.154
389	5.65	5.65	2931	0.	16.47	1202.	2698	0.	0.148	2631	0.	14.78	0.144
390	5.65	5.65	3184	0.	17.89	1306.	2938	0.	0.161	2870	0.	16.12	0.157
391	5.65	5.65	3535	0.	19.86	1450.	3252	0.	0.178	3174	0.	17.83	0.174
392	5.65	5.65	3891	0.	21.86	1596.	3573	0.	0.196	3486	0.	19.59	0.191
393	5.65	5.65	3055	0.	17.16	1253.	2813	0.	0.154	2745	0.	15.42	0.151
394	5.65	5.65	2837	0.	15.94	1164.	2608	0.	0.143	2544	0.	14.29	0.140
395	5.65	5.65	2554	0.	14.35	1048.	2347	0.	0.129	2287	0.	12.85	0.125
396	5.65	5.65	2925	0.	16.44	1200.	2687	0.	0.147	2623	0.	14.73	0.144
397	5.65	5.65	3415	0.	19.19	1401.	3128	0.	0.172	3052	0.	17.14	0.167
398	5.65	5.65	3914	0.	21.99	1606.	3580	0.	0.196	3492	0.	19.62	0.192
399	5.65	5.65	2523	0.	14.18	1035.	2318	0.	0.127	2263	0.	12.71	0.124
400	5.65	5.65	2202	0.	12.37	903.	2019	0.	0.111	1969	0.	11.06	0.108
401	5.65	5.65	1799	0.	10.11	738.	1649	0.	0.090	1607	0.	9.03	0.088
402	5.65	5.65	2291	0.	12.87	940.	2092	0.	0.115	2041	0.	11.47	0.112
403	5.65	5.65	2927	0.	16.44	1201.	2668	0.	0.146	2601	0.	14.61	0.143
404	5.65	5.65	3593	0.	20.19	1474.	3271	0.	0.179	3189	0.	17.92	0.175
405	5.65	5.65	1575	0.	8.85	646.	1446	0.	0.079	1412	0.	7.94	0.077
406	5.65	5.65	1210	0.	6.80	496.	1107	0.	0.061	1079	0.	6.06	0.059
407	5.65	5.65	730	0.	4.10	299.	669	0.	0.037	652	0.	3.66	0.036
408	5.65	5.65	1294	0.	7.27	531.	1176	0.	0.064	1147	0.	6.44	0.063
409	5.65	5.65	2009	0.	11.29	824.	1823	0.	0.100	1778	0.	9.99	0.097
410	5.65	5.65	2895	0.	16.27	1188.	2625	0.	0.144	2559	0.	14.38	0.140
418	5.65	5.65	313	0.	1.76	133.	266	0.	0.015	260	0.	1.46	0.015
419	5.65	5.65	2424	0.	13.62	994.	2225	0.	0.122	2171	0.	12.20	0.119
420	5.65	5.65	3582	0.	20.13	1470.	3294	0.	0.181	3214	0.	18.06	0.176
421	5.65	5.65	4116	0.	23.13	1689.	3777	0.	0.207	3684	0.	20.70	0.202
422	5.65	5.65	4233	0.	23.78	1737.	3869	0.	0.212	3773	0.	21.20	0.207
423	5.65	5.65	4016	0.	22.56	1648.	3655	0.	0.200	3563	0.	20.02	0.195
424	5.65	5.65	3434	0.	19.30	1409.	3113	0.	0.171	3035	0.	17.05	0.166

6.5 VERIFICA GEOTECNICA PIASTRA DI FONDAZIONE

Valutazione della stabilità, capacità portante e resistenza a scorrimento di una fondazione superficiale



Rappresentazione della fondazione.

Descrizione dei Casi di calcolo e riassunto dei risultati.

Segue il riassunto dei Casi di calcolo analizzati. I dettagli di ciascun Caso (sollecitazioni, verifiche, ecc.) sono specificati nei paragrafi successivi.

Indici e nomi dei casi di carico			Elenco delle verifiche eseguite per ciascun caso				Sisma
Caso	Nome	Sestetti	Ver. dren.	Ver. non dren.	Ver. equ.	Ver. upl.	Coef. sism.
1	SLU SENZA SISMA (SLU Appr.1 Comb.1)	1-1	Si	No	Si	No	Non sismico
1-1 Caso 1-1							
2	SLU con SISMAX PRINC (SLU Appr.1 Comb.1)	da 2-1 a 2-16	Si	No	Si	No	$k_{h,x} = 0.16, k_{h,y} = 0.00$
2-1 Caso 4-1; 2-2 Caso 4-2; 2-3 Caso 4-3; 2-4 Caso 4-4; 2-5 Caso 4-5; 2-6 Caso 4-6; 2-7 Caso 4-7; 2-8 Caso 4-8; 2-9 Caso 4-9; 2-10 Caso 4-10; 2-11 Caso 4-11; 2-12 Caso 4-12; 2-13 Caso 4-13; 2-14 Caso 4-14; 2-15 Caso 4-15; 2-16 Caso 4-16							
3	SLU con SISMAX PRINC (SLU Appr.1 Comb.2)	da 3-1 a 3-16	Si	No	Si	No	$k_{h,x} = 0.16, k_{h,y} = 0.00$
3-1 Caso 4-1; 3-2 Caso 4-2; 3-3 Caso 4-3; 3-4 Caso 4-4; 3-5 Caso 4-5; 3-6 Caso 4-6; 3-7 Caso 4-7; 3-8 Caso 4-8; 3-9 Caso 4-9; 3-10 Caso 4-10; 3-11 Caso 4-11; 3-12 Caso 4-12; 3-13 Caso 4-13; 3-14 Caso 4-14; 3-15 Caso 4-15; 3-16 Caso 4-16							
4	SLU con SISMAX PRINC (SLU Appr.1 Comb.1)	da 4-1 a 4-16	Si	No	Si	No	$k_{h,x} = 0.00, k_{h,y} = 0.16$
4-1 Caso 5-1; 4-2 Caso 5-2; 4-3 Caso 5-3; 4-4 Caso 5-4; 4-5 Caso 5-5; 4-6 Caso 5-6; 4-7 Caso 5-7; 4-8 Caso 5-8; 4-9 Caso 5-9; 4-10 Caso 5-10; 4-11 Caso 5-11; 4-12 Caso 5-12; 4-13 Caso 5-13; 4-14 Caso 5-14; 4-15 Caso 5-15; 4-16 Caso 5-16							
5	SLU con SISMAX PRINC (SLU Appr.1 Comb.2)	da 5-1 a 5-16	Si	No	Si	No	$k_{h,x} = 0.00, k_{h,y} = 0.16$
5-1 Caso 5-1; 5-2 Caso 5-2; 5-3 Caso 5-3; 5-4 Caso 5-4; 5-5 Caso 5-5; 5-6 Caso 5-6; 5-7 Caso 5-7; 5-8 Caso 5-8; 5-9 Caso 5-9; 5-10 Caso 5-10; 5-11 Caso 5-11; 5-12 Caso 5-12; 5-13 Caso 5-13; 5-14 Caso 5-14; 5-15 Caso 5-15; 5-16 Caso 5-16							
6	SLU FON con SISMAX P (SLU Appr.1 Comb.1)	da 6-1 a 6-16	Si	No	Si	No	$k_{h,x} = 0.16, k_{h,y} = 0.00$

6-1 Caso 8-1; 6-2 Caso 8-2; 6-3 Caso 8-3; 6-4 Caso 8-4; 6-5 Caso 8-5; 6-6 Caso 8-6; 6-7 Caso 8-7; 6-8 Caso 8-8; 6-9 Caso 8-9; 6-10 Caso 8-10; 6-11 Caso 8-11; 6-12 Caso 8-12; 6-13 Caso 8-13; 6-14 Caso 8-14; 6-15 Caso 8-15; 6-16 Caso 8-16							
7	SLU FON con SISMAX P (SLU Appr.1 Comb.2)	da 7-1 a 7-16	Si	No	Si	No	$k_{h,x} = 0.16, k_{h,y} = 0.00$
7-1 Caso 8-1; 7-2 Caso 8-2; 7-3 Caso 8-3; 7-4 Caso 8-4; 7-5 Caso 8-5; 7-6 Caso 8-6; 7-7 Caso 8-7; 7-8 Caso 8-8; 7-9 Caso 8-9; 7-10 Caso 8-10; 7-11 Caso 8-11; 7-12 Caso 8-12; 7-13 Caso 8-13; 7-14 Caso 8-14; 7-15 Caso 8-15; 7-16 Caso 8-16							
8	SLU FON con SISMAX P (SLU Appr.1 Comb.1)	da 8-1 a 8-16	Si	No	Si	No	$k_{h,x} = 0.00, k_{h,y} = 0.16$
8-1 Caso 9-1; 8-2 Caso 9-2; 8-3 Caso 9-3; 8-4 Caso 9-4; 8-5 Caso 9-5; 8-6 Caso 9-6; 8-7 Caso 9-7; 8-8 Caso 9-8; 8-9 Caso 9-9; 8-10 Caso 9-10; 8-11 Caso 9-11; 8-12 Caso 9-12; 8-13 Caso 9-13; 8-14 Caso 9-14; 8-15 Caso 9-15; 8-16 Caso 9-16							
9	SLU FON con SISMAX P (SLU Appr.1 Comb.2)	da 9-1 a 9-16	Si	No	Si	No	$k_{h,x} = 0.00, k_{h,y} = 0.16$
9-1 Caso 9-1; 9-2 Caso 9-2; 9-3 Caso 9-3; 9-4 Caso 9-4; 9-5 Caso 9-5; 9-6 Caso 9-6; 9-7 Caso 9-7; 9-8 Caso 9-8; 9-9 Caso 9-9; 9-10 Caso 9-10; 9-11 Caso 9-11; 9-12 Caso 9-12; 9-13 Caso 9-13; 9-14 Caso 9-14; 9-15 Caso 9-15; 9-16 Caso 9-16							
10	SLUGeo (SLU Appr.1 Comb.2)	10-1	Si	No	Si	No	Non sismico
10-1 Caso 10-1							
11	SLUEqu (SLU EQU)	11-1	No	No	Si	No	Non sismico
11-1 Caso 11-1							
12	SLD con SISMAX PRINC (SLD)	da 12-1 a 12-16	Si	No	Si	No	$k_{h,x} = 0.16, k_{h,y} = 0.00$
12-1 Caso 6-1; 12-2 Caso 6-2; 12-3 Caso 6-3; 12-4 Caso 6-4; 12-5 Caso 6-5; 12-6 Caso 6-6; 12-7 Caso 6-7; 12-8 Caso 6-8; 12-9 Caso 6-9; 12-10 Caso 6-10; 12-11 Caso 6-11; 12-12 Caso 6-12; 12-13 Caso 6-13; 12-14 Caso 6-14; 12-15 Caso 6-15; 12-16 Caso 6-16							
13	SLD con SISMAX PRINC (SLD)	da 13-1 a 13-16	Si	No	Si	No	$k_{h,x} = 0.00, k_{h,y} = 0.16$
13-1 Caso 7-1; 13-2 Caso 7-2; 13-3 Caso 7-3; 13-4 Caso 7-4; 13-5 Caso 7-5; 13-6 Caso 7-6; 13-7 Caso 7-7; 13-8 Caso 7-8; 13-9 Caso 7-9; 13-10 Caso 7-10; 13-11 Caso 7-11; 13-12 Caso 7-12; 13-13 Caso 7-13; 13-14 Caso 7-14; 13-15 Caso 7-15; 13-16 Caso 7-16							

La seguente tabella elenca i coefficienti di sicurezza parziali, applicati alle caratteristiche meccaniche del terreno, alla capacità portante, alla resistenza a scorrimento e del terreno, per ciascun Caso di calcolo.

Caso	$\gamma_{G1,fav}$	$\gamma_{G1,dfa}$	$\gamma_{G2,fav}$	$\gamma_{G2,dfa}$	$\gamma_{Q1,fav}$	$\gamma_{Q1,dfa}$
1	1.00	1.30	0.00	1.50	0.00	1.50
2	1.00	1.00	1.00	1.00	1.00	1.00
3	1.00	1.00	1.00	1.00	1.00	1.00
4	1.00	1.00	1.00	1.00	1.00	1.00
5	1.00	1.00	1.00	1.00	1.00	1.00
6	1.00	1.00	1.00	1.00	1.00	1.00
7	1.00	1.00	1.00	1.00	1.00	1.00
8	1.00	1.00	1.00	1.00	1.00	1.00
9	1.00	1.00	1.00	1.00	1.00	1.00
10	1.00	1.00	0.00	1.30	0.00	1.30
11	0.90	1.10	0.80	1.50	0.00	1.50
12	-	-	-	-	-	-
13	-	-	-	-	-	-

Caso	γ_s	γ_ϕ	γ_c	$\gamma_{\delta_{1,y}}$	$\gamma_{\delta_{1,h}}$	$\gamma_{\delta_{1,e}}$	$\gamma_{\delta_{1,eq}}$	$\gamma_{\delta_{1,sp}}$
1	1.00	1.00	1.00	1.00	1.00	1.00	-	-
2	1.00	1.00	1.00	1.00	1.00	1.00	-	-
3	1.00	1.25	1.25	1.80	1.10	1.00	-	-
4	1.00	1.00	1.00	1.00	1.00	1.00	-	-
5	1.00	1.25	1.25	1.80	1.10	1.00	-	-
6	1.00	1.00	1.00	1.00	1.00	1.00	-	-
7	1.00	1.25	1.25	1.80	1.10	1.00	-	-
8	1.00	1.00	1.00	1.00	1.00	1.00	-	-
9	1.00	1.25	1.25	1.80	1.10	1.00	-	-
10	1.00	1.25	1.25	1.80	1.10	1.00	-	-
11	1.00	1.25	1.25	-	-	-	1.00	1.00
12	-	-	-	2.30	1.10	1.30	-	-
13	-	-	-	2.30	1.10	1.30	-	-

Segue la tabella riassuntiva di tutte le verifiche a **ribaltamento**.

Caso	Fondazione			Fondazione e Sottotondo		
	R_d [daN*m]	E_d [daN*m]	Verifica	R_d [daN*m]	E_d [daN*m]	Verifica
1-1	1783961.2	181024.1	SI (1783961.2/181024.1 = 9.85 >= 1.0)	1956860.8	181433.1	SI (1956860.8/181433.1 = 10.79 >= 1.0)
2-1	1144080	135439	SI (1144080/135439 = 8.45 >= 1.0)	1270994.3	135640.6	SI (1270994.3/135640.6 = 9.37 >= 1.0)
2-2	1166576.2	134437	SI (1166576.2/134437 = 8.68 >= 1.0)	1294090.5	134679.9	SI (1294090.5/134679.9 = 9.61 >= 1.0)
2-3	1143791.2	134894.9	SI (1143791.2/134894.9 = 8.48 >= 1.0)	1270697.9	135099.5	SI (1270697.9/135099.5 = 9.41 >= 1.0)
2-4	1166291.2	133893	SI (1166291.2/133893 = 8.71 >= 1.0)	1293797.9	134138.9	SI (1293797.9/134138.9 = 9.65 >= 1.0)
2-5	1146037.5	136569.6	SI (1146037.5/136569.6 = 8.39 >= 1.0)	1273004	136756.1	SI (1273004/136756.1 = 9.31 >= 1.0)

2-6	1168533.7	135567.7	SI (1168533.7/135567.7 = 8.62 >= 1.0)	1296100.2	135795.5	SI (1296100.2/135795.5 = 9.54 >= 1.0)
2-7	1145748.7	136025.6	SI (1145748.7/136025.6 = 8.42 >= 1.0)	1272707.6	136215.1	SI (1272707.6/136215.1 = 9.34 >= 1.0)
2-8	1168245	135023.7	SI (1168245/135023.7 = 8.65 >= 1.0)	1295803.7	135254.5	SI (1295803.7/135254.5 = 9.58 >= 1.0)
2-9	1144661.2	136593.9	SI (1144661.2/136593.9 = 8.38 >= 1.0)	1271591.1	136784.7	SI (1271591.1/136784.7 = 9.30 >= 1.0)
2-10	1167157.5	135592	SI (1167157.5/135592 = 8.61 >= 1.0)	1294687.2	135824.1	SI (1294687.2/135824.1 = 9.53 >= 1.0)
2-11	1144372.5	136049.9	SI (1144372.5/136049.9 = 8.41 >= 1.0)	1271294.6	136243.7	SI (1271294.6/136243.7 = 9.33 >= 1.0)
2-12	1166868.7	135048	SI (1166868.7/135048 = 8.64 >= 1.0)	1294390.8	135283.1	SI (1294390.8/135283.1 = 9.57 >= 1.0)
2-13	1146615	137724.6	SI (1146615/137724.6 = 8.33 >= 1.0)	1273596.9	137900.3	SI (1273596.9/137900.3 = 9.24 >= 1.0)
2-14	1169115	136722.7	SI (1169115/136722.7 = 8.55 >= 1.0)	1296696.9	136939.6	SI (1296696.9/136939.6 = 9.47 >= 1.0)
2-15	1146330	137180.6	SI (1146330/137180.6 = 8.36 >= 1.0)	1273304.3	137359.3	SI (1273304.3/137359.3 = 9.27 >= 1.0)
2-16	1168826.2	136178.7	SI (1168826.2/136178.7 = 8.58 >= 1.0)	1296400.5	136398.6	SI (1296400.5/136398.6 = 9.50 >= 1.0)
3-1	1144080	135439	SI (1144080/135439 = 8.45 >= 1.0)	1270994.3	135640.6	SI (1270994.3/135640.6 = 9.37 >= 1.0)
3-2	1166576.2	134437	SI (1166576.2/134437 = 8.68 >= 1.0)	1294090.5	134679.9	SI (1294090.5/134679.9 = 9.61 >= 1.0)
3-3	1143791.2	134894.9	SI (1143791.2/134894.9 = 8.48 >= 1.0)	1270697.9	135099.5	SI (1270697.9/135099.5 = 9.41 >= 1.0)
3-4	1166291.2	133893	SI (1166291.2/133893 = 8.71 >= 1.0)	1293797.9	134138.9	SI (1293797.9/134138.9 = 9.65 >= 1.0)
3-5	1146037.5	136569.6	SI (1146037.5/136569.6 = 8.39 >= 1.0)	1273004	136756.1	SI (1273004/136756.1 = 9.31 >= 1.0)
3-6	1168533.7	135567.7	SI (1168533.7/135567.7 = 8.62 >= 1.0)	1296100.2	135795.5	SI (1296100.2/135795.5 = 9.54 >= 1.0)
3-7	1145748.7	136025.6	SI (1145748.7/136025.6 = 8.42 >= 1.0)	1272707.6	136215.1	SI (1272707.6/136215.1 = 9.34 >= 1.0)
3-8	1168245	135023.7	SI (1168245/135023.7 = 8.65 >= 1.0)	1295803.7	135254.5	SI (1295803.7/135254.5 = 9.58 >= 1.0)
3-9	1144661.2	136593.9	SI (1144661.2/136593.9 = 8.38 >= 1.0)	1271591.1	136784.7	SI (1271591.1/136784.7 = 9.30 >= 1.0)
3-10	1167157.5	135592	SI (1167157.5/135592 = 8.61 >= 1.0)	1294687.2	135824.1	SI (1294687.2/135824.1 = 9.53 >= 1.0)
3-11	1144372.5	136049.9	SI (1144372.5/136049.9 = 8.41 >= 1.0)	1271294.6	136243.7	SI (1271294.6/136243.7 = 9.33 >= 1.0)
3-12	1166868.7	135048	SI (1166868.7/135048 = 8.64 >= 1.0)	1294390.8	135283.1	SI (1294390.8/135283.1 = 9.57 >= 1.0)
3-13	1146615	137724.6	SI (1146615/137724.6 = 8.33 >= 1.0)	1273596.9	137900.3	SI (1273596.9/137900.3 = 9.24 >= 1.0)
3-14	1169115	136722.7	SI (1169115/136722.7 = 8.55 >= 1.0)	1296696.9	136939.6	SI (1296696.9/136939.6 = 9.47 >= 1.0)
3-15	1146330	137180.6	SI (1146330/137180.6 = 8.36 >= 1.0)	1273304.3	137359.3	SI (1273304.3/137359.3 = 9.27 >= 1.0)
3-16	1168826.2	136178.7	SI (1168826.2/136178.7 = 8.58 >= 1.0)	1296400.5	136398.6	SI (1296400.5/136398.6 = 9.50 >= 1.0)
4-1	1119056.2	138042.5	SI (1119056.2/138042.5 = 8.11 >= 1.0)	1245303.3	138183.4	SI (1245303.3/138183.4 = 9.01 >= 1.0)
4-2	1119641.2	138381.7	SI (1119641.2/138381.7 = 8.09 >= 1.0)	1245903.9	138518	SI (1245903.9/138518 = 8.99 >= 1.0)
4-3	1119228.7	138389	SI (1119228.7/138389 = 8.09 >= 1.0)	1245480.4	138526.6	SI (1245480.4/138526.6 = 8.99 >= 1.0)
4-4	1119817.5	138728.2	SI (1119817.5/138728.2 = 8.07 >= 1.0)	1246084.8	138861.3	SI (1246084.8/138861.3 = 8.97 >= 1.0)
4-5	1194045	134702.8	SI (1194045/134702.8 = 8.86 >= 1.0)	1322291.7	134981.2	SI (1322291.7/134981.2 = 9.80 >= 1.0)
4-6	1194633.7	135042	SI (1194633.7/135042 = 8.85 >= 1.0)	1322896.2	135315.9	SI (1322896.2/135315.9 = 9.78 >= 1.0)
4-7	1194221.2	135049.2	SI (1194221.2/135049.2 = 8.84 >= 1.0)	1322472.7	135324.5	SI (1322472.7/135324.5 = 9.77 >= 1.0)
4-8	1194806.2	135388.5	SI (1194806.2/135388.5 = 8.83 >= 1.0)	1323073.3	135659.1	SI (1323073.3/135659.1 = 9.75 >= 1.0)
4-9	1118100	136229.1	SI (1118100/136229.1 = 8.21 >= 1.0)	1244321.5	136380	SI (1244321.5/136380 = 9.12 >= 1.0)
4-10	1118685	136568.3	SI (1118685/136568.3 = 8.19 >= 1.0)	1244922.1	136714.7	SI (1244922.1/136714.7 = 9.11 >= 1.0)
4-11	1118272.5	136575.6	SI (1118272.5/136575.6 = 8.19 >= 1.0)	1244498.6	136723.3	SI (1244498.6/136723.3 = 9.10 >= 1.0)
4-12	1118861.2	136914.8	SI (1118861.2/136914.8 = 8.17 >= 1.0)	1245103.1	137058	SI (1245103.1/137058 = 9.08 >= 1.0)
4-13	1193088.7	132889.4	SI (1193088.7/132889.4 = 8.98 >= 1.0)	1321310	133177.9	SI (1321310/133177.9 = 9.92 >= 1.0)
4-14	1193677.5	133228.6	SI (1193677.5/133228.6 = 8.96 >= 1.0)	1321914.4	133512.6	SI (1321914.4/133512.6 = 9.90 >= 1.0)
4-15	1193265	133235.9	SI (1193265/133235.9 = 8.96 >= 1.0)	1321490.9	133521.1	SI (1321490.9/133521.1 = 9.90 >= 1.0)
4-16	1193850	133575.1	SI (1193850/133575.1 = 8.94 >= 1.0)	1322091.5	133855.8	SI (1322091.5/133855.8 = 9.88 >= 1.0)
5-1	1119056.2	138042.5	SI (1119056.2/138042.5 = 8.11 >= 1.0)	1245303.3	138183.4	SI (1245303.3/138183.4 = 9.01 >= 1.0)
5-2	1119641.2	138381.7	SI (1119641.2/138381.7 = 8.09 >= 1.0)	1245903.9	138518	SI (1245903.9/138518 = 8.99 >= 1.0)
5-3	1119228.7	138389	SI (1119228.7/138389 = 8.09 >= 1.0)	1245480.4	138526.6	SI (1245480.4/138526.6 = 8.99 >= 1.0)
5-4	1119817.5	138728.2	SI (1119817.5/138728.2 = 8.07 >= 1.0)	1246084.8	138861.3	SI (1246084.8/138861.3 = 8.97 >= 1.0)
5-5	1194045	134702.8	SI (1194045/134702.8 = 8.86 >= 1.0)	1322291.7	134981.2	SI (1322291.7/134981.2 = 9.80 >= 1.0)
5-6	1194633.7	135042	SI (1194633.7/135042 = 8.85 >= 1.0)	1322896.2	135315.9	SI (1322896.2/135315.9 = 9.78 >= 1.0)
5-7	1194221.2	135049.2	SI (1194221.2/135049.2 = 8.84 >= 1.0)	1322472.7	135324.5	SI (1322472.7/135324.5 = 9.77 >= 1.0)
5-8	1194806.2	135388.5	SI (1194806.2/135388.5 = 8.83 >= 1.0)	1323073.3	135659.1	SI (1323073.3/135659.1 = 9.75 >= 1.0)
5-9	1118100	136229.1	SI (1118100/136229.1 = 8.21 >= 1.0)	1244321.5	136380	SI (1244321.5/136380 = 9.12 >= 1.0)
5-10	1118685	136568.3	SI (1118685/136568.3 = 8.19 >= 1.0)	1244922.1	136714.7	SI (1244922.1/136714.7 = 9.11 >= 1.0)
5-11	1118272.5	136575.6	SI (1118272.5/136575.6 = 8.19 >= 1.0)	1244498.6	136723.3	SI (1244498.6/136723.3 = 9.10 >= 1.0)
5-12	1118861.2	136914.8	SI (1118861.2/136914.8 = 8.17 >= 1.0)	1245103.1	137058	SI (1245103.1/137058 = 9.08 >= 1.0)
5-13	1193088.7	132889.4	SI (1193088.7/132889.4 = 8.98 >= 1.0)	1321310	133177.9	SI (1321310/133177.9 = 9.92 >= 1.0)
5-14	1193677.5	133228.6	SI (1193677.5/133228.6 = 8.96 >= 1.0)	1321914.4	133512.6	SI (1321914.4/133512.6 = 9.90 >= 1.0)
5-15	1193265	133235.9	SI (1193265/133235.9 = 8.96 >= 1.0)	1321490.9	133521.1	SI (1321490.9/133521.1 = 9.90 >= 1.0)
5-16	1193850	133575.1	SI (1193850/133575.1 = 8.94 >= 1.0)	1322091.5	133855.8	SI (1322091.5/133855.8 = 9.88 >= 1.0)
6-1	1142842.5	135402	SI (1142842.5/135402 = 8.44 >= 1.0)	1269723.8	135602.6	SI (1269723.8/135602.6 = 9.36 >= 1.0)
6-2	1167588.7	134299.8	SI (1167588.7/134299.8 = 8.69 >= 1.0)	1295130	134545.9	SI (1295130/134545.9 = 9.63 >= 1.0)
6-3	1142527.5	134803.5	SI (1142527.5/134803.5 = 8.48 >= 1.0)	1269400.4	135007.5	SI (1269400.4/135007.5 = 9.40 >= 1.0)
6-4	1167273.7	133701.4	SI (1167273.7/133701.4 = 8.73 >= 1.0)	1294806.6	133950.8	SI (1294806.6/133950.8 = 9.67 >= 1.0)
6-5	1144995	136645.7	SI (1144995/136645.7 = 8.38 >= 1.0)	1271933.7	136829.7	SI (1271933.7/136829.7 = 9.30 >= 1.0)
6-6	1169741.2	135543.6	SI (1169741.2/135543.6 = 8.63 >= 1.0)	1297339.9	135773	SI (1297339.9/135773 = 9.56 >= 1.0)
6-7	1144680	136047.3	SI (1144680/136047.3 = 8.41 >= 1.0)	1271610.3	136234.7	SI (1271610.3/136234.7 = 9.33 >= 1.0)
6-8	1169426.2	134945.2	SI (1169426.2/134945.2 = 8.67 >= 1.0)	1297016.5	135177.9	SI (1297016.5/135177.9 = 9.59 >= 1.0)
6-9	1143480	136672.4	SI (1143480/136672.4 = 8.37 >= 1.0)	1270378.3	136861.2	SI (1270378.3/136861.2 = 9.28 >= 1.0)
6-10	1168226.2	135570.3	SI (1168226.2/135570.3 = 8.62 >= 1.0)	1295784.5	135804.5	SI (1295784.5/135804.5 = 9.54 >= 1.0)

6-11	1143165	136074	SI (1143165/136074 = 8.40 >= 1.0)	1270054.9	136266.1	SI (1270054.9/136266.1 = 9.32 >= 1.0)
6-12	1167911.2	134971.9	SI (1167911.2/134971.9 = 8.65 >= 1.0)	1295461.1	135209.4	SI (1295461.1/135209.4 = 9.58 >= 1.0)
6-13	1145632.5	137916.2	SI (1145632.5/137916.2 = 8.31 >= 1.0)	1272588.2	138088.3	SI (1272588.2/138088.3 = 9.22 >= 1.0)
6-14	1170378.7	136814	SI (1170378.7/136814 = 8.55 >= 1.0)	1297994.4	137031.6	SI (1297994.4/137031.6 = 9.47 >= 1.0)
6-15	1145317.5	137317.8	SI (1145317.5/137317.8 = 8.34 >= 1.0)	1272264.8	137493.2	SI (1272264.8/137493.2 = 9.25 >= 1.0)
6-16	1170063.7	136215.6	SI (1170063.7/136215.6 = 8.59 >= 1.0)	1297671	136436.5	SI (1297671/136436.5 = 9.51 >= 1.0)
7-1	1142842.5	135402	SI (1142842.5/135402 = 8.44 >= 1.0)	1269723.8	135602.6	SI (1269723.8/135602.6 = 9.36 >= 1.0)
7-2	1167588.7	134299.8	SI (1167588.7/134299.8 = 8.69 >= 1.0)	1295130	134545.9	SI (1295130/134545.9 = 9.63 >= 1.0)
7-3	1142527.5	134803.5	SI (1142527.5/134803.5 = 8.48 >= 1.0)	1269400.4	135007.5	SI (1269400.4/135007.5 = 9.40 >= 1.0)
7-4	1167273.7	133701.4	SI (1167273.7/133701.4 = 8.73 >= 1.0)	1294806.6	133950.8	SI (1294806.6/133950.8 = 9.67 >= 1.0)
7-5	1144995	136645.7	SI (1144995/136645.7 = 8.38 >= 1.0)	1271933.7	136829.7	SI (1271933.7/136829.7 = 9.30 >= 1.0)
7-6	1169741.2	135543.6	SI (1169741.2/135543.6 = 8.63 >= 1.0)	1297339.9	135773	SI (1297339.9/135773 = 9.56 >= 1.0)
7-7	1144680	136047.3	SI (1144680/136047.3 = 8.41 >= 1.0)	1271610.3	136234.7	SI (1271610.3/136234.7 = 9.33 >= 1.0)
7-8	1169426.2	134945.2	SI (1169426.2/134945.2 = 8.67 >= 1.0)	1297016.5	135177.9	SI (1297016.5/135177.9 = 9.59 >= 1.0)
7-9	1143480	136672.4	SI (1143480/136672.4 = 8.37 >= 1.0)	1270378.3	136861.2	SI (1270378.3/136861.2 = 9.28 >= 1.0)
7-10	1168226.2	135570.3	SI (1168226.2/135570.3 = 8.62 >= 1.0)	1295784.5	135804.5	SI (1295784.5/135804.5 = 9.54 >= 1.0)
7-11	1143165	136074	SI (1143165/136074 = 8.40 >= 1.0)	1270054.9	136266.1	SI (1270054.9/136266.1 = 9.32 >= 1.0)
7-12	1167911.2	134971.9	SI (1167911.2/134971.9 = 8.65 >= 1.0)	1295461.1	135209.4	SI (1295461.1/135209.4 = 9.58 >= 1.0)
7-13	1145632.5	137916.2	SI (1145632.5/137916.2 = 8.31 >= 1.0)	1272588.2	138088.3	SI (1272588.2/138088.3 = 9.22 >= 1.0)
7-14	1170378.7	136814	SI (1170378.7/136814 = 8.55 >= 1.0)	1297994.4	137031.6	SI (1297994.4/137031.6 = 9.47 >= 1.0)
7-15	1145317.5	137317.8	SI (1145317.5/137317.8 = 8.34 >= 1.0)	1272264.8	137493.2	SI (1272264.8/137493.2 = 9.25 >= 1.0)
7-16	1170063.7	136215.6	SI (1170063.7/136215.6 = 8.59 >= 1.0)	1297671	136436.5	SI (1297671/136436.5 = 9.51 >= 1.0)
8-1	1115313.7	138265.9	SI (1115313.7/138265.9 = 8.07 >= 1.0)	1241461	138399.7	SI (1241461/138399.7 = 8.97 >= 1.0)
8-2	1115962.5	138639	SI (1115962.5/138639 = 8.05 >= 1.0)	1242127	138767.9	SI (1242127/138767.9 = 8.95 >= 1.0)
8-3	1115508.7	138647	SI (1115508.7/138647 = 8.05 >= 1.0)	1241661.2	138777.3	SI (1241661.2/138777.3 = 8.95 >= 1.0)
8-4	1116153.7	139020.1	SI (1116153.7/139020.1 = 8.03 >= 1.0)	1242323.4	139145.5	SI (1242323.4/139145.5 = 8.93 >= 1.0)
8-5	1197806.2	134592.2	SI (1197806.2/134592.2 = 8.90 >= 1.0)	1326153.3	134877.4	SI (1326153.3/134877.4 = 9.83 >= 1.0)
8-6	1198451.2	134965.3	SI (1198451.2/134965.3 = 8.88 >= 1.0)	1326815.5	135245.5	SI (1326815.5/135245.5 = 9.81 >= 1.0)
8-7	1197997.5	134973.3	SI (1197997.5/134973.3 = 8.88 >= 1.0)	1326349.6	135255	SI (1326349.6/135255 = 9.81 >= 1.0)
8-8	1198642.5	135346.4	SI (1198642.5/135346.4 = 8.86 >= 1.0)	1327011.8	135623.1	SI (1327011.8/135623.1 = 9.78 >= 1.0)
8-9	1114263.7	136271.2	SI (1114263.7/136271.2 = 8.18 >= 1.0)	1240383	136416.1	SI (1240383/136416.1 = 9.09 >= 1.0)
8-10	1114908.7	136644.3	SI (1114908.7/136644.3 = 8.16 >= 1.0)	1241045.2	136784.2	SI (1241045.2/136784.2 = 9.07 >= 1.0)
8-11	1114455	136652.3	SI (1114455/136652.3 = 8.16 >= 1.0)	1240579.3	136793.7	SI (1240579.3/136793.7 = 9.07 >= 1.0)
8-12	1115100	137025.5	SI (1115100/137025.5 = 8.14 >= 1.0)	1241241.5	137161.8	SI (1241241.5/137161.8 = 9.05 >= 1.0)
8-13	1196752.5	132597.5	SI (1196752.5/132597.5 = 9.03 >= 1.0)	1325071.4	132893.7	SI (1325071.4/132893.7 = 9.97 >= 1.0)
8-14	1197397.5	132970.6	SI (1197397.5/132970.6 = 9.00 >= 1.0)	1325733.6	133261.9	SI (1325733.6/133261.9 = 9.95 >= 1.0)
8-15	1196943.7	132978.6	SI (1196943.7/132978.6 = 9.00 >= 1.0)	1325267.8	133271.3	SI (1325267.8/133271.3 = 9.94 >= 1.0)
8-16	1197592.5	133351.7	SI (1197592.5/133351.7 = 8.98 >= 1.0)	1325933.8	133639.4	SI (1325933.8/133639.4 = 9.92 >= 1.0)
9-1	1115313.7	138265.9	SI (1115313.7/138265.9 = 8.07 >= 1.0)	1241461	138399.7	SI (1241461/138399.7 = 8.97 >= 1.0)
9-2	1115962.5	138639	SI (1115962.5/138639 = 8.05 >= 1.0)	1242127	138767.9	SI (1242127/138767.9 = 8.95 >= 1.0)
9-3	1115508.7	138647	SI (1115508.7/138647 = 8.05 >= 1.0)	1241661.2	138777.3	SI (1241661.2/138777.3 = 8.95 >= 1.0)
9-4	1116153.7	139020.1	SI (1116153.7/139020.1 = 8.03 >= 1.0)	1242323.4	139145.5	SI (1242323.4/139145.5 = 8.93 >= 1.0)
9-5	1197806.2	134592.2	SI (1197806.2/134592.2 = 8.90 >= 1.0)	1326153.3	134877.4	SI (1326153.3/134877.4 = 9.83 >= 1.0)
9-6	1198451.2	134965.3	SI (1198451.2/134965.3 = 8.88 >= 1.0)	1326815.5	135245.5	SI (1326815.5/135245.5 = 9.81 >= 1.0)
9-7	1197997.5	134973.3	SI (1197997.5/134973.3 = 8.88 >= 1.0)	1326349.6	135255	SI (1326349.6/135255 = 9.81 >= 1.0)
9-8	1198642.5	135346.4	SI (1198642.5/135346.4 = 8.86 >= 1.0)	1327011.8	135623.1	SI (1327011.8/135623.1 = 9.78 >= 1.0)
9-9	1114263.7	136271.2	SI (1114263.7/136271.2 = 8.18 >= 1.0)	1240383	136416.1	SI (1240383/136416.1 = 9.09 >= 1.0)
9-10	1114908.7	136644.3	SI (1114908.7/136644.3 = 8.16 >= 1.0)	1241045.2	136784.2	SI (1241045.2/136784.2 = 9.07 >= 1.0)
9-11	1114455	136652.3	SI (1114455/136652.3 = 8.16 >= 1.0)	1240579.3	136793.7	SI (1240579.3/136793.7 = 9.07 >= 1.0)
9-12	1115100	137025.5	SI (1115100/137025.5 = 8.14 >= 1.0)	1241241.5	137161.8	SI (1241241.5/137161.8 = 9.05 >= 1.0)
9-13	1196752.5	132597.5	SI (1196752.5/132597.5 = 9.03 >= 1.0)	1325071.4	132893.7	SI (1325071.4/132893.7 = 9.97 >= 1.0)
9-14	1197397.5	132970.6	SI (1197397.5/132970.6 = 9.00 >= 1.0)	1325733.6	133261.9	SI (1325733.6/133261.9 = 9.95 >= 1.0)
9-15	1196943.7	132978.6	SI (1196943.7/132978.6 = 9.00 >= 1.0)	1325267.8	133271.3	SI (1325267.8/133271.3 = 9.94 >= 1.0)
9-16	1197592.5	133351.7	SI (1197592.5/133351.7 = 8.98 >= 1.0)	1325933.8	133639.4	SI (1325933.8/133639.4 = 9.92 >= 1.0)
10-1	1437562.5	141362.6	SI (1437562.5/141362.6 = 10.17 >= 1.0)	1572303	141707.3	SI (1572303/141707.3 = 11.10 >= 1.0)
11-1	1441211.2	131998	SI (1441211.2/131998 = 10.92 >= 1.0)	1566408.5	132376.2	SI (1566408.5/132376.2 = 11.83 >= 1.0)
12-1	1145872.5	135492.6	SI (1145872.5/135492.6 = 8.46 >= 1.0)	1272834.6	135695.5	SI (1272834.6/135695.5 = 9.38 >= 1.0)
12-2	1165110	134635.9	SI (1165110/134635.9 = 8.65 >= 1.0)	1292585.1	134874.2	SI (1292585.1/134874.2 = 9.58 >= 1.0)
12-3	1145628.7	135027.5	SI (1145628.7/135027.5 = 8.48 >= 1.0)	1272584.4	135233	SI (1272584.4/135233 = 9.41 >= 1.0)
12-4	1164862.5	134170.8	SI (1164862.5/134170.8 = 8.68 >= 1.0)	1292331	134411.6	SI (1292331/134411.6 = 9.61 >= 1.0)
12-5	1147548.7	136459.3	SI (1147548.7/136459.3 = 8.41 >= 1.0)	1274555.6	136649.3	SI (1274555.6/136649.3 = 9.33 >= 1.0)
12-6	1166782.5	135602.6	SI (1166782.5/135602.6 = 8.60 >= 1.0)	1294302.2	135828	SI (1294302.2/135828 = 9.53 >= 1.0)
12-7	1147301.2	135994.2	SI (1147301.2/135994.2 = 8.44 >= 1.0)	1274301.5	136186.7	SI (1274301.5/136186.7 = 9.36 >= 1.0)
12-8	1166535	135137.5	SI (1166535/135137.5 = 8.63 >= 1.0)	1294048.1	135365.4	SI (1294048.1/135365.4 = 9.56 >= 1.0)
12-9	1146371.2	136480.1	SI (1146371.2/136480.1 = 8.40 >= 1.0)	1273346.7	136673.8	SI (1273346.7/136673.8 = 9.32 >= 1.0)
12-10	1165605	135623.4	SI (1165605/135623.4 = 8.59 >= 1.0)	1293093.3	135852.4	SI (1293093.3/135852.4 = 9.52 >= 1.0)
12-11	1146123.7	136015	SI (1146123.7/136015 = 8.43 >= 1.0)	1273092.6	136211.2	SI (1273092.6/136211.2 = 9.35 >= 1.0)
12-12	1165357.5	135158.3	SI (1165357.5/135158.3 = 8.62 >= 1.0)	1292839.2	135389.9	SI (1292839.2/135389.9 = 9.55 >= 1.0)
12-13	1148043.7	137446.8	SI (1148043.7/137446.8 = 8.35 >= 1.0)	1275063.8	137627.6	SI (1275063.8/137627.6 = 9.26 >= 1.0)

12-14	1167277.5	136590.2	SI (1167277.5/136590.2 = 8.55 >= 1.0)	1294810.4	136806.2	SI (1294810.4/136806.2 = 9.46 >= 1.0)
12-15	1147796.2	136981.7	SI (1147796.2/136981.7 = 8.38 >= 1.0)	1274809.7	137165	SI (1274809.7/137165 = 9.29 >= 1.0)
12-16	1167033.7	136125	SI (1167033.7/136125 = 8.57 >= 1.0)	1294560.2	136343.7	SI (1294560.2/136343.7 = 9.49 >= 1.0)
13-1	1124478.7	137718.6	SI (1124478.7/137718.6 = 8.17 >= 1.0)	1250870.4	137869.6	SI (1250870.4/137869.6 = 9.07 >= 1.0)
13-2	1124981.2	138008.6	SI (1124981.2/138008.6 = 8.15 >= 1.0)	1251386.3	138155.8	SI (1251386.3/138155.8 = 9.06 >= 1.0)
13-3	1124625	138014.9	SI (1124625/138014.9 = 8.15 >= 1.0)	1251020.5	138163.1	SI (1251020.5/138163.1 = 9.05 >= 1.0)
13-4	1125127.5	138304.9	SI (1125127.5/138304.9 = 8.14 >= 1.0)	1251536.4	138449.2	SI (1251536.4/138449.2 = 9.04 >= 1.0)
13-5	1188596.2	134863.1	SI (1188596.2/134863.1 = 8.81 >= 1.0)	1316697.7	135131.8	SI (1316697.7/135131.8 = 9.74 >= 1.0)
13-6	1189095	135153.1	SI (1189095/135153.1 = 8.80 >= 1.0)	1317209.7	135417.9	SI (1317209.7/135417.9 = 9.73 >= 1.0)
13-7	1188742.5	135159.4	SI (1188742.5/135159.4 = 8.80 >= 1.0)	1316847.8	135425.3	SI (1316847.8/135425.3 = 9.72 >= 1.0)
13-8	1189245	135449.4	SI (1189245/135449.4 = 8.78 >= 1.0)	1317363.7	135711.4	SI (1317363.7/135711.4 = 9.71 >= 1.0)
13-9	1123661.2	136168.2	SI (1123661.2/136168.2 = 8.25 >= 1.0)	1250031.1	136327.8	SI (1250031.1/136327.8 = 9.17 >= 1.0)
13-10	1124163.7	136458.2	SI (1124163.7/136458.2 = 8.24 >= 1.0)	1250547	136613.9	SI (1250547/136613.9 = 9.15 >= 1.0)
13-11	1123811.2	136464.5	SI (1123811.2/136464.5 = 8.24 >= 1.0)	1250185.1	136621.3	SI (1250185.1/136621.3 = 9.15 >= 1.0)
13-12	1124310	136754.5	SI (1124310/136754.5 = 8.22 >= 1.0)	1250697.1	136907.4	SI (1250697.1/136907.4 = 9.14 >= 1.0)
13-13	1187778.7	133312.7	SI (1187778.7/133312.7 = 8.91 >= 1.0)	1315858.4	133589.9	SI (1315858.4/133589.9 = 9.85 >= 1.0)
13-14	1188281.2	133602.7	SI (1188281.2/133602.7 = 8.89 >= 1.0)	1316374.3	133876.1	SI (1316374.3/133876.1 = 9.83 >= 1.0)
13-15	1187925	133609	SI (1187925/133609 = 8.89 >= 1.0)	1316008.5	133883.4	SI (1316008.5/133883.4 = 9.83 >= 1.0)
13-16	1188427.5	133899	SI (1188427.5/133899 = 8.88 >= 1.0)	1316524.4	134169.6	SI (1316524.4/134169.6 = 9.81 >= 1.0)

Segue la tabella riassuntiva di tutte le verifiche di **capacità portante**, i dettagli sono riportati nei paragrafi successivi.

Caso	Cond. drenate			Cond. non drenate		
	E_s [daN]	R_d [daN]	Verifica	E_s [daN]	R_d [daN]	Verifica
1-1	508275.5	20168079.9	SI (20168079.9/508275.5 = 39.68 >= 1.0)	Verifica non richiesta.		
2-1	330128.4	10906446.7	SI (10906446.7/330128.4 = 33.04 >= 1.0)	Verifica non richiesta.		
2-2	336127.4	11089021.3	SI (11089021.3/336127.4 = 32.99 >= 1.0)	Verifica non richiesta.		
2-3	330051.4	10913183.9	SI (10913183.9/330051.4 = 33.07 >= 1.0)	Verifica non richiesta.		
2-4	336051.4	11095778.7	SI (11095778.7/336051.4 = 33.02 >= 1.0)	Verifica non richiesta.		
2-5	330650.4	10445495.9	SI (10445495.9/330650.4 = 31.59 >= 1.0)	Verifica non richiesta.		
2-6	336649.4	10400414.2	SI (10400414.2/336649.4 = 30.89 >= 1.0)	Verifica non richiesta.		
2-7	330573.4	10447507.8	SI (10447507.8/330573.4 = 31.60 >= 1.0)	Verifica non richiesta.		
2-8	336572.4	10402333.5	SI (10402333.5/336572.4 = 30.91 >= 1.0)	Verifica non richiesta.		
2-9	330283.4	10872220.5	SI (10872220.5/330283.4 = 32.92 >= 1.0)	Verifica non richiesta.		
2-10	336282.4	11054893.9	SI (11054893.9/336282.4 = 32.87 >= 1.0)	Verifica non richiesta.		
2-11	330206.4	10878932.2	SI (10878932.2/330206.4 = 32.95 >= 1.0)	Verifica non richiesta.		
2-12	336205.4	11061617.1	SI (11061617.1/336205.4 = 32.90 >= 1.0)	Verifica non richiesta.		
2-13	330804.4	10448890	SI (10448890/330804.4 = 31.59 >= 1.0)	Verifica non richiesta.		
2-14	336804.4	10403952.6	SI (10403952.6/336804.4 = 30.89 >= 1.0)	Verifica non richiesta.		
2-15	330728.4	10450917.4	SI (10450917.4/330728.4 = 31.60 >= 1.0)	Verifica non richiesta.		
2-16	336727.4	10405876.9	SI (10405876.9/336727.4 = 30.90 >= 1.0)	Verifica non richiesta.		
3-1	330128.4	2831633	SI (2831633/330128.4 = 8.58 >= 1.0)	Verifica non richiesta.		
3-2	336127.4	2877028.2	SI (2877028.2/336127.4 = 8.56 >= 1.0)	Verifica non richiesta.		
3-3	330051.4	2833211.1	SI (2833211.1/330051.4 = 8.58 >= 1.0)	Verifica non richiesta.		
3-4	336051.4	2878611.1	SI (2878611.1/336051.4 = 8.57 >= 1.0)	Verifica non richiesta.		
3-5	330650.4	2720943.3	SI (2720943.3/330650.4 = 8.23 >= 1.0)	Verifica non richiesta.		
3-6	336649.4	2709893.7	SI (2709893.7/336649.4 = 8.05 >= 1.0)	Verifica non richiesta.		
3-7	330573.4	2721358.1	SI (2721358.1/330573.4 = 8.23 >= 1.0)	Verifica non richiesta.		
3-8	336572.4	2710287.6	SI (2710287.6/336572.4 = 8.05 >= 1.0)	Verifica non richiesta.		
3-9	330283.4	2823186.4	SI (2823186.4/330283.4 = 8.55 >= 1.0)	Verifica non richiesta.		
3-10	336282.4	2868610.9	SI (2868610.9/336282.4 = 8.53 >= 1.0)	Verifica non richiesta.		
3-11	330206.4	2824758.7	SI (2824758.7/330206.4 = 8.55 >= 1.0)	Verifica non richiesta.		
3-12	336205.4	2870185.8	SI (2870185.8/336205.4 = 8.54 >= 1.0)	Verifica non richiesta.		
3-13	330804.4	2721809.3	SI (2721809.3/330804.4 = 8.23 >= 1.0)	Verifica non richiesta.		
3-14	336804.4	2710794.7	SI (2710794.7/336804.4 = 8.05 >= 1.0)	Verifica non richiesta.		
3-15	330728.4	2722227.9	SI (2722227.9/330728.4 = 8.23 >= 1.0)	Verifica non richiesta.		
3-16	336727.4	2711189.8	SI (2711189.8/336727.4 = 8.05 >= 1.0)	Verifica non richiesta.		
4-1	323455.4	11206517.6	SI (11206517.6/323455.4 = 34.65 >= 1.0)	Verifica non richiesta.		
4-2	323611.4	10906382.7	SI (10906382.7/323611.4 = 33.70 >= 1.0)	Verifica non richiesta.		
4-3	323501.4	11195828.6	SI (11195828.6/323501.4 = 34.61 >= 1.0)	Verifica non richiesta.		
4-4	323658.4	10907288.6	SI (10907288.6/323658.4 = 33.70 >= 1.0)	Verifica non richiesta.		
4-5	343452.4	11082522.5	SI (11082522.5/343452.4 = 32.27 >= 1.0)	Verifica non richiesta.		
4-6	343609.4	10739622.5	SI (10739622.5/343609.4 = 31.26 >= 1.0)	Verifica non richiesta.		
4-7	343499.4	11083518.5	SI (11083518.5/343499.4 = 32.27 >= 1.0)	Verifica non richiesta.		
4-8	343655.4	10740662.1	SI (10740662.1/343655.4 = 31.25 >= 1.0)	Verifica non richiesta.		
4-9	323200.4	11230318.4	SI (11230318.4/323200.4 = 34.75 >= 1.0)	Verifica non richiesta.		
4-10	323356.4	10914185.2	SI (10914185.2/323356.4 = 33.75 >= 1.0)	Verifica non richiesta.		
4-11	323246.4	11219602.5	SI (11219602.5/323246.4 = 34.71 >= 1.0)	Verifica non richiesta.		

4-12	323403.4	10915096.1	SI (10915096.1/323403.4 = 33.75 >= 1.0)	Verifica non richiesta.
4-13	343197.4	11089760.4	SI (11089760.4/343197.4 = 32.31 >= 1.0)	Verifica non richiesta.
4-14	343354.4	10746314.2	SI (10746314.2/343354.4 = 31.30 >= 1.0)	Verifica non richiesta.
4-15	343244.4	11090761.9	SI (11090761.9/343244.4 = 32.31 >= 1.0)	Verifica non richiesta.
4-16	343400.4	10747359.1	SI (10747359.1/343400.4 = 31.30 >= 1.0)	Verifica non richiesta.
5-1	323455.4	2907080.2	SI (2907080.2/323455.4 = 8.99 >= 1.0)	Verifica non richiesta.
5-2	323611.4	2833896.2	SI (2833896.2/323611.4 = 8.76 >= 1.0)	Verifica non richiesta.
5-3	323501.4	2904444.2	SI (2904444.2/323501.4 = 8.98 >= 1.0)	Verifica non richiesta.
5-4	323658.4	2834128.8	SI (2834128.8/323658.4 = 8.76 >= 1.0)	Verifica non richiesta.
5-5	343452.4	2877001.5	SI (2877001.5/343452.4 = 8.38 >= 1.0)	Verifica non richiesta.
5-6	343609.4	2793109.7	SI (2793109.7/343609.4 = 8.13 >= 1.0)	Verifica non richiesta.
5-7	343499.4	2877255.7	SI (2877255.7/343499.4 = 8.38 >= 1.0)	Verifica non richiesta.
5-8	343655.4	2793374.6	SI (2793374.6/343655.4 = 8.13 >= 1.0)	Verifica non richiesta.
5-9	323200.4	2912657.3	SI (2912657.3/323200.4 = 9.01 >= 1.0)	Verifica non richiesta.
5-10	323356.4	2835527.1	SI (2835527.1/323356.4 = 8.77 >= 1.0)	Verifica non richiesta.
5-11	323246.4	2910015.2	SI (2910015.2/323246.4 = 9.00 >= 1.0)	Verifica non richiesta.
5-12	323403.4	2835761	SI (2835761/323403.4 = 8.77 >= 1.0)	Verifica non richiesta.
5-13	343197.4	2878505.6	SI (2878505.6/343197.4 = 8.39 >= 1.0)	Verifica non richiesta.
5-14	343354.4	2794490.2	SI (2794490.2/343354.4 = 8.14 >= 1.0)	Verifica non richiesta.
5-15	343244.4	2878761.2	SI (2878761.2/343244.4 = 8.39 >= 1.0)	Verifica non richiesta.
5-16	343400.4	2794756.3	SI (2794756.3/343400.4 = 8.14 >= 1.0)	Verifica non richiesta.
6-1	329798.4	10823014.7	SI (10823014.7/329798.4 = 32.82 >= 1.0)	Verifica non richiesta.
6-2	336397.4	11024113.7	SI (11024113.7/336397.4 = 32.77 >= 1.0)	Verifica non richiesta.
6-3	329714.4	10830369.5	SI (10830369.5/329714.4 = 32.85 >= 1.0)	Verifica non richiesta.
6-4	336313.4	11031482.8	SI (11031482.8/336313.4 = 32.80 >= 1.0)	Verifica non richiesta.
6-5	330372.4	10390461	SI (10390461/330372.4 = 31.45 >= 1.0)	Verifica non richiesta.
6-6	336971.4	10341659.7	SI (10341659.7/336971.4 = 30.69 >= 1.0)	Verifica non richiesta.
6-7	330288.4	10392656	SI (10392656/330288.4 = 31.47 >= 1.0)	Verifica non richiesta.
6-8	336887.4	10343743.7	SI (10343743.7/336887.4 = 30.70 >= 1.0)	Verifica non richiesta.
6-9	329968.4	10785555.8	SI (10785555.8/329968.4 = 32.69 >= 1.0)	Verifica non richiesta.
6-10	336567.4	10986770.7	SI (10986770.7/336567.4 = 32.64 >= 1.0)	Verifica non richiesta.
6-11	329884.4	10792879.8	SI (10792879.8/329884.4 = 32.72 >= 1.0)	Verifica non richiesta.
6-12	336483.4	10994109.9	SI (10994109.9/336483.4 = 32.67 >= 1.0)	Verifica non richiesta.
6-13	330542.4	10394226.4	SI (10394226.4/330542.4 = 31.45 >= 1.0)	Verifica non richiesta.
6-14	337141.4	10345585.3	SI (10345585.3/337141.4 = 30.69 >= 1.0)	Verifica non richiesta.
6-15	330458.4	10396427.5	SI (10396427.5/330458.4 = 31.46 >= 1.0)	Verifica non richiesta.
6-16	337057.4	10347675	SI (10347675/337057.4 = 30.70 >= 1.0)	Verifica non richiesta.
7-1	329798.4	2810785.5	SI (2810785.5/329798.4 = 8.52 >= 1.0)	Verifica non richiesta.
7-2	336397.4	2860799.6	SI (2860799.6/336397.4 = 8.50 >= 1.0)	Verifica non richiesta.
7-3	329714.4	2812508.4	SI (2812508.4/329714.4 = 8.53 >= 1.0)	Verifica non richiesta.
7-4	336313.4	2862525.6	SI (2862525.6/336313.4 = 8.51 >= 1.0)	Verifica non richiesta.
7-5	330372.4	2707452.8	SI (2707452.8/330372.4 = 8.20 >= 1.0)	Verifica non richiesta.
7-6	336971.4	2695487.5	SI (2695487.5/336971.4 = 8.00 >= 1.0)	Verifica non richiesta.
7-7	330288.4	2707905.1	SI (2707905.1/330288.4 = 8.20 >= 1.0)	Verifica non richiesta.
7-8	336887.4	2695914.7	SI (2695914.7/336887.4 = 8.00 >= 1.0)	Verifica non richiesta.
7-9	329968.4	2801538.9	SI (2801538.9/329968.4 = 8.49 >= 1.0)	Verifica non richiesta.
7-10	336567.4	2851587.5	SI (2851587.5/336567.4 = 8.47 >= 1.0)	Verifica non richiesta.
7-11	329884.4	2803254.7	SI (2803254.7/329884.4 = 8.50 >= 1.0)	Verifica non richiesta.
7-12	336483.4	2853306.6	SI (2853306.6/336483.4 = 8.48 >= 1.0)	Verifica non richiesta.
7-13	330542.4	2708413.2	SI (2708413.2/330542.4 = 8.19 >= 1.0)	Verifica non richiesta.
7-14	337141.4	2696486.6	SI (2696486.6/337141.4 = 8.00 >= 1.0)	Verifica non richiesta.
7-15	330458.4	2708867	SI (2708867/330458.4 = 8.20 >= 1.0)	Verifica non richiesta.
7-16	337057.4	2696915.3	SI (2696915.3/337057.4 = 8.00 >= 1.0)	Verifica non richiesta.
8-1	322457.4	11151332.1	SI (11151332.1/322457.4 = 34.58 >= 1.0)	Verifica non richiesta.
8-2	322630.4	10896567.8	SI (10896567.8/322630.4 = 33.77 >= 1.0)	Verifica non richiesta.
8-3	322509.4	11139602.4	SI (11139602.4/322509.4 = 34.54 >= 1.0)	Verifica non richiesta.
8-4	322681.4	10897551.5	SI (10897551.5/322681.4 = 33.77 >= 1.0)	Verifica non richiesta.
8-5	344455.4	11090381.1	SI (11090381.1/344455.4 = 32.20 >= 1.0)	Verifica non richiesta.
8-6	344627.4	10714014.8	SI (10714014.8/344627.4 = 31.09 >= 1.0)	Verifica non richiesta.
8-7	344506.4	11091474.7	SI (11091474.7/344506.4 = 32.20 >= 1.0)	Verifica non richiesta.
8-8	344678.4	10715171.6	SI (10715171.6/344678.4 = 31.09 >= 1.0)	Verifica non richiesta.
8-9	322177.4	11177448	SI (11177448/322177.4 = 34.69 >= 1.0)	Verifica non richiesta.
8-10	322349.4	10905177.6	SI (10905177.6/322349.4 = 33.83 >= 1.0)	Verifica non richiesta.
8-11	322228.4	11165675	SI (11165675/322228.4 = 34.65 >= 1.0)	Verifica non richiesta.
8-12	322400.4	10906167.5	SI (10906167.5/322400.4 = 33.83 >= 1.0)	Verifica non richiesta.
8-13	344174.4	11098309	SI (11098309/344174.4 = 32.25 >= 1.0)	Verifica non richiesta.
8-14	344346.4	10721285.3	SI (10721285.3/344346.4 = 31.14 >= 1.0)	Verifica non richiesta.
8-15	344225.4	11099408.6	SI (11099408.6/344225.4 = 32.24 >= 1.0)	Verifica non richiesta.
8-16	344398.4	10722457.6	SI (10722457.6/344398.4 = 31.13 >= 1.0)	Verifica non richiesta.

9-1	322457.4	2893351.3	SI (2893351.3/322457.4 = 8.97 >= 1.0)	Verifica non richiesta.
9-2	322630.4	2831506.6	SI (2831506.6/322630.4 = 8.78 >= 1.0)	Verifica non richiesta.
9-3	322509.4	2890458.3	SI (2890458.3/322509.4 = 8.96 >= 1.0)	Verifica non richiesta.
9-4	322681.4	2831759.4	SI (2831759.4/322681.4 = 8.78 >= 1.0)	Verifica non richiesta.
9-5	344455.4	2878936.5	SI (2878936.5/344455.4 = 8.36 >= 1.0)	Verifica non richiesta.
9-6	344627.4	2786852.1	SI (2786852.1/344627.4 = 8.09 >= 1.0)	Verifica non richiesta.
9-7	344506.4	2879215.6	SI (2879215.6/344506.4 = 8.36 >= 1.0)	Verifica non richiesta.
9-8	344678.4	2787146.6	SI (2787146.6/344678.4 = 8.09 >= 1.0)	Verifica non richiesta.
9-9	322177.4	2899471.1	SI (2899471.1/322177.4 = 9.00 >= 1.0)	Verifica non richiesta.
9-10	322349.4	2833306.5	SI (2833306.5/322349.4 = 8.79 >= 1.0)	Verifica non richiesta.
9-11	322228.4	2896567.9	SI (2896567.9/322228.4 = 8.99 >= 1.0)	Verifica non richiesta.
9-12	322400.4	2833560.8	SI (2833560.8/322400.4 = 8.79 >= 1.0)	Verifica non richiesta.
9-13	344174.4	2880583.3	SI (2880583.3/344174.4 = 8.37 >= 1.0)	Verifica non richiesta.
9-14	344346.4	2788350.1	SI (2788350.1/344346.4 = 8.10 >= 1.0)	Verifica non richiesta.
9-15	344225.4	2880864	SI (2880864/344225.4 = 8.37 >= 1.0)	Verifica non richiesta.
9-16	344398.4	2788648.5	SI (2788648.5/344398.4 = 8.10 >= 1.0)	Verifica non richiesta.
10-1	408390.4	5518519.3	SI (5518519.3/408390.4 = 13.51 >= 1.0)	Verifica non richiesta.
12-1	330606.4	4873691.6	SI (4873691.6/330606.4 = 14.74 >= 1.0)	Verifica non richiesta.
12-2	335736.4	4941811.9	SI (4941811.9/335736.4 = 14.72 >= 1.0)	Verifica non richiesta.
12-3	330541.4	4876243.7	SI (4876243.7/330541.4 = 14.75 >= 1.0)	Verifica non richiesta.
12-4	335670.4	4944362.6	SI (4944362.6/335670.4 = 14.73 >= 1.0)	Verifica non richiesta.
12-5	331053.4	4656531.7	SI (4656531.7/331053.4 = 14.07 >= 1.0)	Verifica non richiesta.
12-6	336182.4	4639748.7	SI (4639748.7/336182.4 = 13.80 >= 1.0)	Verifica non richiesta.
12-7	330987.4	4657305.6	SI (4657305.6/330987.4 = 14.07 >= 1.0)	Verifica non richiesta.
12-8	336116.4	4640492.2	SI (4640492.2/336116.4 = 13.81 >= 1.0)	Verifica non richiesta.
12-9	330739.4	4860786.5	SI (4860786.5/330739.4 = 14.70 >= 1.0)	Verifica non richiesta.
12-10	335868.4	4928937	SI (4928937/335868.4 = 14.68 >= 1.0)	Verifica non richiesta.
12-11	330673.4	4863326.1	SI (4863326.1/330673.4 = 14.71 >= 1.0)	Verifica non richiesta.
12-12	335802.4	4931479.7	SI (4931479.7/335802.4 = 14.69 >= 1.0)	Verifica non richiesta.
12-13	331185.4	4657693.6	SI (4657693.6/331185.4 = 14.06 >= 1.0)	Verifica non richiesta.
12-14	336314.4	4640954.4	SI (4640954.4/336314.4 = 13.80 >= 1.0)	Verifica non richiesta.
12-15	331119.4	4658468.7	SI (4658468.7/331119.4 = 14.07 >= 1.0)	Verifica non richiesta.
12-16	336249.4	4641704.2	SI (4641704.2/336249.4 = 13.80 >= 1.0)	Verifica non richiesta.
13-1	324901.4	4959691.6	SI (4959691.6/324901.4 = 15.27 >= 1.0)	Verifica non richiesta.
13-2	325035.4	4827363.3	SI (4827363.3/325035.4 = 14.85 >= 1.0)	Verifica non richiesta.
13-3	324940.4	4959979.8	SI (4959979.8/324940.4 = 15.26 >= 1.0)	Verifica non richiesta.
13-4	325074.4	4827670.4	SI (4827670.4/325074.4 = 14.85 >= 1.0)	Verifica non richiesta.
13-5	341999.4	4893686.9	SI (4893686.9/341999.4 = 14.31 >= 1.0)	Verifica non richiesta.
13-6	342132.4	4766166.2	SI (4766166.2/342132.4 = 13.93 >= 1.0)	Verifica non richiesta.
13-7	342038.4	4894024.2	SI (4894024.2/342038.4 = 14.31 >= 1.0)	Verifica non richiesta.
13-8	342172.4	4766525.1	SI (4766525.1/342172.4 = 13.93 >= 1.0)	Verifica non richiesta.
13-9	324683.4	4962814.9	SI (4962814.9/324683.4 = 15.29 >= 1.0)	Verifica non richiesta.
13-10	324817.4	4830293.3	SI (4830293.3/324817.4 = 14.87 >= 1.0)	Verifica non richiesta.
13-11	324723.4	4963108.8	SI (4963108.8/324723.4 = 15.28 >= 1.0)	Verifica non richiesta.
13-12	324856.4	4830602.3	SI (4830602.3/324856.4 = 14.87 >= 1.0)	Verifica non richiesta.
13-13	341781.4	4896435.6	SI (4896435.6/341781.4 = 14.33 >= 1.0)	Verifica non richiesta.
13-14	341915.4	4768745.1	SI (4768745.1/341915.4 = 13.95 >= 1.0)	Verifica non richiesta.
13-15	341820.4	4896774.7	SI (4896774.7/341820.4 = 14.33 >= 1.0)	Verifica non richiesta.
13-16	341954.4	4769100.9	SI (4769100.9/341954.4 = 13.95 >= 1.0)	Verifica non richiesta.

Segue la tabella riassuntiva di tutte le verifiche di **resistenza a scorrimento**, i dettagli sono riportati nei paragrafi successivi.

Caso	Cond. drenate			Cond. non drenate		
	E_d [daN]	R_d [daN]	Verifica	E_d [daN]	R_d [daN]	Verifica
1-1	12818.9	233499.9	SI (233499.9/12818.9 = 18.22 >= 1.0)	Verifica non richiesta.		
2-1	8081.3	158147.2	SI (158147.2/8081.3 = 19.57 >= 1.0)	Verifica non richiesta.		
2-2	5750.7	164348.5	SI (164348.5/5750.7 = 28.58 >= 1.0)	Verifica non richiesta.		
2-3	8040.3	158230.6	SI (158230.6/8040.3 = 19.68 >= 1.0)	Verifica non richiesta.		
2-4	5718	164468.8	SI (164468.8/5718 = 28.76 >= 1.0)	Verifica non richiesta.		
2-5	22115.3	154341.5	SI (154341.5/22115.3 = 6.98 >= 1.0)	Verifica non richiesta.		
2-6	24754.7	157023	SI (157023/24754.7 = 6.34 >= 1.0)	Verifica non richiesta.		
2-7	22167.9	154339.3	SI (154339.3/22167.9 = 6.96 >= 1.0)	Verifica non richiesta.		
2-8	24807.6	157017.1	SI (157017.1/24807.6 = 6.33 >= 1.0)	Verifica non richiesta.		
2-9	8460.6	157655.2	SI (157655.2/8460.6 = 18.63 >= 1.0)	Verifica non richiesta.		
2-10	6089	163577.1	SI (163577.1/6089 = 26.86 >= 1.0)	Verifica non richiesta.		
2-11	8418.5	157733.2	SI (157733.2/8418.5 = 18.74 >= 1.0)	Verifica non richiesta.		
2-12	6054.2	163692.8	SI (163692.8/6054.2 = 27.04 >= 1.0)	Verifica non richiesta.		
2-13	21691	154319.8	SI (154319.8/21691 = 7.11 >= 1.0)	Verifica non richiesta.		

2-14	24329.8	157014.8	SI (157014.8/24329.8 = 6.45 >= 1.0)	Verifica non richiesta.
2-15	21743.5	154318.8	SI (154318.8/21743.5 = 7.10 >= 1.0)	Verifica non richiesta.
2-16	24382.6	157009.5	SI (157009.5/24382.6 = 6.44 >= 1.0)	Verifica non richiesta.
3-1	8081.3	117376.8	SI (117376.8/8081.3 = 14.52 >= 1.0)	Verifica non richiesta.
3-2	5750.7	122061.6	SI (122061.6/5750.7 = 21.23 >= 1.0)	Verifica non richiesta.
3-3	8040.3	117441.7	SI (117441.7/8040.3 = 14.61 >= 1.0)	Verifica non richiesta.
3-4	5718	122154.7	SI (122154.7/5718 = 21.36 >= 1.0)	Verifica non richiesta.
3-5	22115.3	114452.1	SI (114452.1/22115.3 = 5.18 >= 1.0)	Verifica non richiesta.
3-6	24754.7	116437.5	SI (116437.5/24754.7 = 4.70 >= 1.0)	Verifica non richiesta.
3-7	22167.9	114451.3	SI (114451.3/22167.9 = 5.16 >= 1.0)	Verifica non richiesta.
3-8	24807.6	116433.9	SI (116433.9/24807.6 = 4.69 >= 1.0)	Verifica non richiesta.
3-9	8460.6	116997.6	SI (116997.6/8460.6 = 13.83 >= 1.0)	Verifica non richiesta.
3-10	6089	121468.1	SI (121468.1/6089 = 19.95 >= 1.0)	Verifica non richiesta.
3-11	8418.5	117058.4	SI (117058.4/8418.5 = 13.90 >= 1.0)	Verifica non richiesta.
3-12	6054.2	121557.8	SI (121557.8/6054.2 = 20.08 >= 1.0)	Verifica non richiesta.
3-13	21691	114433.6	SI (114433.6/21691 = 5.28 >= 1.0)	Verifica non richiesta.
3-14	24329.8	116429.4	SI (116429.4/24329.8 = 4.79 >= 1.0)	Verifica non richiesta.
3-15	21743.5	114433.8	SI (114433.8/21743.5 = 5.26 >= 1.0)	Verifica non richiesta.
3-16	24382.6	116426.3	SI (116426.3/24382.6 = 4.77 >= 1.0)	Verifica non richiesta.
4-1	1541.9	164750.1	SI (164750.1/1541.9 = 106.85 >= 1.0)	Verifica non richiesta.
4-2	8442.2	153358.7	SI (153358.7/8442.2 = 18.17 >= 1.0)	Verifica non richiesta.
4-3	1568.4	164902.9	SI (164902.9/1568.4 = 105.14 >= 1.0)	Verifica non richiesta.
4-4	8313.6	153343.9	SI (153343.9/8313.6 = 18.44 >= 1.0)	Verifica non richiesta.
4-5	8549.7	165371.7	SI (165371.7/8549.7 = 19.34 >= 1.0)	Verifica non richiesta.
4-6	17260.9	161574	SI (161574/17260.9 = 9.36 >= 1.0)	Verifica non richiesta.
4-7	8420.9	165415.8	SI (165415.8/8420.9 = 19.64 >= 1.0)	Verifica non richiesta.
4-8	17132.3	161575.9	SI (161575.9/17132.3 = 9.43 >= 1.0)	Verifica non richiesta.
4-9	1577.4	164055.3	SI (164055.3/1577.4 = 104.01 >= 1.0)	Verifica non richiesta.
4-10	8624	153453.5	SI (153453.5/8624 = 17.79 >= 1.0)	Verifica non richiesta.
4-11	1588	164515.5	SI (164515.5/1588 = 103.60 >= 1.0)	Verifica non richiesta.
4-12	8495.3	153442.7	SI (153442.7/8495.3 = 18.06 >= 1.0)	Verifica non richiesta.
4-13	8740.8	165360.4	SI (165360.4/8740.8 = 18.92 >= 1.0)	Verifica non richiesta.
4-14	17442.3	161568.6	SI (161568.6/17442.3 = 9.26 >= 1.0)	Verifica non richiesta.
4-15	8612	165405.1	SI (165405.1/8612 = 19.21 >= 1.0)	Verifica non richiesta.
4-16	17313.7	161571.5	SI (161571.5/17313.7 = 9.33 >= 1.0)	Verifica non richiesta.
5-1	1541.9	122519.3	SI (122519.3/1541.9 = 79.46 >= 1.0)	Verifica non richiesta.
5-2	8442.2	113781.6	SI (113781.6/8442.2 = 13.48 >= 1.0)	Verifica non richiesta.
5-3	1568.4	122635.9	SI (122635.9/1568.4 = 78.19 >= 1.0)	Verifica non richiesta.
5-4	8313.6	113769.7	SI (113769.7/8313.6 = 13.68 >= 1.0)	Verifica non richiesta.
5-5	8549.7	122759.6	SI (122759.6/8549.7 = 14.36 >= 1.0)	Verifica non richiesta.
5-6	17260.9	119845.4	SI (119845.4/17260.9 = 6.94 >= 1.0)	Verifica non richiesta.
5-7	8420.9	122792.8	SI (122792.8/8420.9 = 14.58 >= 1.0)	Verifica non richiesta.
5-8	17132.3	119846.3	SI (119846.3/17132.3 = 7.00 >= 1.0)	Verifica non richiesta.
5-9	1577.4	121989.5	SI (121989.5/1577.4 = 77.34 >= 1.0)	Verifica non richiesta.
5-10	8624	113857.4	SI (113857.4/8624 = 13.20 >= 1.0)	Verifica non richiesta.
5-11	1588	122341.9	SI (122341.9/1588 = 77.04 >= 1.0)	Verifica non richiesta.
5-12	8495.3	113848.6	SI (113848.6/8495.3 = 13.40 >= 1.0)	Verifica non richiesta.
5-13	8740.8	122753.9	SI (122753.9/8740.8 = 14.04 >= 1.0)	Verifica non richiesta.
5-14	17442.3	119844.2	SI (119844.2/17442.3 = 6.87 >= 1.0)	Verifica non richiesta.
5-15	8612	122787.7	SI (122787.7/8612 = 14.26 >= 1.0)	Verifica non richiesta.
5-16	17313.7	119845.9	SI (119845.9/17313.7 = 6.92 >= 1.0)	Verifica non richiesta.
6-1	9642.4	157044.6	SI (157044.6/9642.4 = 16.29 >= 1.0)	Verifica non richiesta.
6-2	7003.3	163001.2	SI (163001.2/7003.3 = 23.27 >= 1.0)	Verifica non richiesta.
6-3	9595.3	157115.6	SI (157115.6/9595.3 = 16.37 >= 1.0)	Verifica non richiesta.
6-4	6963.4	163109.7	SI (163109.7/6963.4 = 23.42 >= 1.0)	Verifica non richiesta.
6-5	23489.5	154073	SI (154073/23489.5 = 6.56 >= 1.0)	Verifica non richiesta.
6-6	26391.8	157026.9	SI (157026.9/26391.8 = 5.95 >= 1.0)	Verifica non richiesta.
6-7	23547.2	154069.5	SI (154069.5/23547.2 = 6.54 >= 1.0)	Verifica non richiesta.
6-8	26449.7	157019.3	SI (157019.3/26449.7 = 5.94 >= 1.0)	Verifica non richiesta.
6-9	10068.4	156623.1	SI (156623.1/10068.4 = 15.56 >= 1.0)	Verifica non richiesta.
6-10	7395.8	162323.3	SI (162323.3/7395.8 = 21.95 >= 1.0)	Verifica non richiesta.
6-11	10020.4	156689.1	SI (156689.1/10020.4 = 15.64 >= 1.0)	Verifica non richiesta.
6-12	7354.1	162425.8	SI (162425.8/7354.1 = 22.09 >= 1.0)	Verifica non richiesta.
6-13	23023.3	154051.3	SI (154051.3/23023.3 = 6.69 >= 1.0)	Verifica non richiesta.
6-14	25924.8	157020	SI (157020/25924.8 = 6.06 >= 1.0)	Verifica non richiesta.
6-15	23080.9	154048.7	SI (154048.7/23080.9 = 6.67 >= 1.0)	Verifica non richiesta.
6-16	25982.7	157013.1	SI (157013.1/25982.7 = 6.04 >= 1.0)	Verifica non richiesta.
7-1	9642.4	116535.1	SI (116535.1/9642.4 = 12.09 >= 1.0)	Verifica non richiesta.
7-2	7003.3	121025.1	SI (121025.1/7003.3 = 17.28 >= 1.0)	Verifica non richiesta.

7-3	9595.3	116590.6	SI (116590.6/9595.3 = 12.15 >= 1.0)	Verifica non richiesta.
7-4	6963.4	121109.3	SI (121109.3/6963.4 = 17.39 >= 1.0)	Verifica non richiesta.
7-5	23489.5	114249.5	SI (114249.5/23489.5 = 4.86 >= 1.0)	Verifica non richiesta.
7-6	26391.8	116436.7	SI (116436.7/26391.8 = 4.41 >= 1.0)	Verifica non richiesta.
7-7	23547.2	114247.7	SI (114247.7/23547.2 = 4.85 >= 1.0)	Verifica non richiesta.
7-8	26449.7	116431.9	SI (116431.9/26449.7 = 4.40 >= 1.0)	Verifica non richiesta.
7-9	10068.4	116209.8	SI (116209.8/10068.4 = 11.54 >= 1.0)	Verifica non richiesta.
7-10	7395.8	120503.2	SI (120503.2/7395.8 = 16.29 >= 1.0)	Verifica non richiesta.
7-11	10020.4	116261.5	SI (116261.5/10020.4 = 11.60 >= 1.0)	Verifica non richiesta.
7-12	7354.1	120582.9	SI (120582.9/7354.1 = 16.40 >= 1.0)	Verifica non richiesta.
7-13	23023.3	114230.8	SI (114230.8/23023.3 = 4.96 >= 1.0)	Verifica non richiesta.
7-14	25924.8	116429.4	SI (116429.4/25924.8 = 4.49 >= 1.0)	Verifica non richiesta.
7-15	23080.9	114229.8	SI (114229.8/23080.9 = 4.95 >= 1.0)	Verifica non richiesta.
7-16	25982.7	116425.1	SI (116425.1/25982.7 = 4.48 >= 1.0)	Verifica non richiesta.
8-1	2020.1	162769.4	SI (162769.4/2020.1 = 80.58 >= 1.0)	Verifica non richiesta.
8-2	8440.7	152736.8	SI (152736.8/8440.7 = 18.10 >= 1.0)	Verifica non richiesta.
8-3	2102.8	162177.9	SI (162177.9/2102.8 = 77.13 >= 1.0)	Verifica non richiesta.
8-4	8299.3	152716.2	SI (152716.2/8299.3 = 18.40 >= 1.0)	Verifica non richiesta.
8-5	8558.2	165951.2	SI (165951.2/8558.2 = 19.39 >= 1.0)	Verifica non richiesta.
8-6	18141.3	161892.2	SI (161892.2/18141.3 = 8.92 >= 1.0)	Verifica non richiesta.
8-7	8416.7	166001.8	SI (166001.8/8416.7 = 19.72 >= 1.0)	Verifica non richiesta.
8-8	17999.9	161894.5	SI (161894.5/17999.9 = 8.99 >= 1.0)	Verifica non richiesta.
8-9	1965.9	163548.3	SI (163548.3/1965.9 = 83.19 >= 1.0)	Verifica non richiesta.
8-10	8640	152847	SI (152847/8640 = 17.69 >= 1.0)	Verifica non richiesta.
8-11	2036.4	163079.5	SI (163079.5/2036.4 = 80.08 >= 1.0)	Verifica non richiesta.
8-12	8498.5	152831.4	SI (152831.4/8498.5 = 17.98 >= 1.0)	Verifica non richiesta.
8-13	8768.8	165933.3	SI (165933.3/8768.8 = 18.92 >= 1.0)	Verifica non richiesta.
8-14	18340.5	161882.1	SI (161882.1/18340.5 = 8.83 >= 1.0)	Verifica non richiesta.
8-15	8627.3	165984.7	SI (165984.7/8627.3 = 19.24 >= 1.0)	Verifica non richiesta.
8-16	18199.1	161885.9	SI (161885.9/18199.1 = 8.90 >= 1.0)	Verifica non richiesta.
9-1	2020.1	121012.3	SI (121012.3/2020.1 = 59.90 >= 1.0)	Verifica non richiesta.
9-2	8440.7	113316.3	SI (113316.3/8440.7 = 13.43 >= 1.0)	Verifica non richiesta.
9-3	2102.8	120558	SI (120558/2102.8 = 57.33 >= 1.0)	Verifica non richiesta.
9-4	8299.3	113299.9	SI (113299.9/8299.3 = 13.65 >= 1.0)	Verifica non richiesta.
9-5	8558.2	123192.2	SI (123192.2/8558.2 = 14.39 >= 1.0)	Verifica non richiesta.
9-6	18141.3	120077.3	SI (120077.3/18141.3 = 6.62 >= 1.0)	Verifica non richiesta.
9-7	8416.7	123230.4	SI (123230.4/8416.7 = 14.64 >= 1.0)	Verifica non richiesta.
9-8	17999.9	120078.4	SI (120078.4/17999.9 = 6.67 >= 1.0)	Verifica non richiesta.
9-9	1965.9	121612.8	SI (121612.8/1965.9 = 61.86 >= 1.0)	Verifica non richiesta.
9-10	8640	113404.1	SI (113404.1/8640 = 13.13 >= 1.0)	Verifica non richiesta.
9-11	2036.4	121252.7	SI (121252.7/2036.4 = 59.54 >= 1.0)	Verifica non richiesta.
9-12	8498.5	113391.6	SI (113391.6/8498.5 = 13.34 >= 1.0)	Verifica non richiesta.
9-13	8768.8	123181.8	SI (123181.8/8768.8 = 14.05 >= 1.0)	Verifica non richiesta.
9-14	18340.5	120072.9	SI (120072.9/18340.5 = 6.55 >= 1.0)	Verifica non richiesta.
9-15	8627.3	123220.5	SI (123220.5/8627.3 = 14.28 >= 1.0)	Verifica non richiesta.
9-16	18199.1	120075.2	SI (120075.2/18199.1 = 6.60 >= 1.0)	Verifica non richiesta.
10-1	10234.1	142804.1	SI (142804.1/10234.1 = 13.95 >= 1.0)	Verifica non richiesta.
12-1	5860.5	142609.3	SI (142609.3/5860.5 = 24.33 >= 1.0)	Verifica non richiesta.
12-2	4040.6	148059.9	SI (148059.9/4040.6 = 36.64 >= 1.0)	Verifica non richiesta.
12-3	5829.2	142687.4	SI (142687.4/5829.2 = 24.48 >= 1.0)	Verifica non richiesta.
12-4	4021.3	148146.6	SI (148146.6/4021.3 = 36.84 >= 1.0)	Verifica non richiesta.
12-5	20124.3	138229.8	SI (138229.8/20124.3 = 6.87 >= 1.0)	Verifica non richiesta.
12-6	22382.4	140283.3	SI (140283.3/22382.4 = 6.27 >= 1.0)	Verifica non richiesta.
12-7	20169.5	138225.7	SI (138225.7/20169.5 = 6.85 >= 1.0)	Verifica non richiesta.
12-8	22427.7	140276.9	SI (140276.9/22427.7 = 6.25 >= 1.0)	Verifica non richiesta.
12-9	6166.4	142124.4	SI (142124.4/6166.4 = 23.05 >= 1.0)	Verifica non richiesta.
12-10	4283.4	147406.7	SI (147406.7/4283.4 = 34.41 >= 1.0)	Verifica non richiesta.
12-11	6133.8	142198.1	SI (142198.1/6133.8 = 23.18 >= 1.0)	Verifica non richiesta.
12-12	4261.1	147499	SI (147499/4261.1 = 34.62 >= 1.0)	Verifica non richiesta.
12-13	19760.9	138221.8	SI (138221.8/19760.9 = 6.99 >= 1.0)	Verifica non richiesta.
12-14	22018.6	140283.5	SI (140283.5/22018.6 = 6.37 >= 1.0)	Verifica non richiesta.
12-15	19806	138218.3	SI (138218.3/19806 = 6.98 >= 1.0)	Verifica non richiesta.
12-16	22063.9	140277.9	SI (140277.9/22063.9 = 6.36 >= 1.0)	Verifica non richiesta.
13-1	1646.7	145993.6	SI (145993.6/1646.7 = 88.66 >= 1.0)	Verifica non richiesta.
13-2	8445.7	137490.1	SI (137490.1/8445.7 = 16.28 >= 1.0)	Verifica non richiesta.
13-3	1581	145838.6	SI (145838.6/1581 = 92.24 >= 1.0)	Verifica non richiesta.
13-4	8335.6	137485.7	SI (137485.7/8335.6 = 16.49 >= 1.0)	Verifica non richiesta.
13-5	8538.2	146373.3	SI (146373.3/8538.2 = 17.14 >= 1.0)	Verifica non richiesta.
13-6	15985	143768	SI (143768/15985 = 8.99 >= 1.0)	Verifica non richiesta.

13-7	8428	146401.9	SI (146401.9/8428 = 17.37 >= 1.0)	Verifica non richiesta.
13-8	15875	143771.8	SI (143771.8/15875 = 9.06 >= 1.0)	Verifica non richiesta.
13-9	1785	146008.9	SI (146008.9/1785 = 81.80 >= 1.0)	Verifica non richiesta.
13-10	8601.8	137534.6	SI (137534.6/8601.8 = 15.99 >= 1.0)	Verifica non richiesta.
13-11	1714.4	145940.6	SI (145940.6/1714.4 = 85.13 >= 1.0)	Verifica non richiesta.
13-12	8491.6	137532.3	SI (137532.3/8491.6 = 16.20 >= 1.0)	Verifica non richiesta.
13-13	8701.2	146357.8	SI (146357.8/8701.2 = 16.82 >= 1.0)	Verifica non richiesta.
13-14	16140.5	143755.9	SI (143755.9/16140.5 = 8.91 >= 1.0)	Verifica non richiesta.
13-15	8591	146387	SI (146387/8591 = 17.04 >= 1.0)	Verifica non richiesta.
13-16	16030.5	143759.9	SI (143759.9/16030.5 = 8.97 >= 1.0)	Verifica non richiesta.

Descrizione del metodo di calcolo.

Il calcolo della capacità portante viene eseguito secondo la formula trinomia, considerando separatamente i contributi dovuti alla coesione, al sovraccarico laterale ed al peso del terreno.

Per le verifiche in condizioni drenate, si utilizzano i coefficienti di capacità portante N_q (Prandtl, 1921), N_c (Reissner, 1924), N_g (Vesic, 1973), i coefficienti correttivi dovuti alla forma della fondazione (s , Meyerhof, 1951 e 1963), all'approfondimento (d , Brinch Hansen, 1970), all'inclinazione del carico (i , Vesic, 1973), all'inclinazione del piano di posa (b , Vesic, 1973), all'inclinazione del piano campagna (g , Vesic, 1973), e all'azione sismica (h - Maugeri e Novità, 2004).

Nel caso di terreno eterogeneo (litologie differenti, presenza di falda), i parametri meccanici utilizzati nel calcolo sono ottenuti come media ponderata dei valori rinvenuti all'interno del cuneo di rottura.

La resistenza a scorrimento, viene ottenuta sommando i contributi del carico normale al piano di posa moltiplicato per il coefficiente d'attrito, e dell'area del piano di posa (eventualmente ridotta per carico verticale eccentrico) per l'adesione fondazione-terreno. In condizioni drenate, l'attrito fondazione terreno è assunto pari all'angolo di resistenza al taglio del terreno moltiplicato per il coefficiente 0.75, l'adesione fondazione terreno è trascurata (assunta pari a 0). Si considera il contributo della pressione del terreno a lato della fondazione. La resistenza laterale del terreno è assunta pari alla resistenza passiva disponibile moltiplicata per 0.50.

Descrizione della fondazione.

La fondazione ha piano di posa rettangolare, con lato X di 1355 [cm], lato Y di 770 [cm], e centro alla quota $z = -90$ [cm]. Il piano di posa è orizzontale.

Descrizione del terreno.

La stratigrafia è eterogenea, presenta 2 strati							
n.	nome	z_i [cm]	z_f [cm]	γ_d [daN/m ³]	γ_t [daN/m ³]	c' [daN/cm ²]	ϕ' [°]
1	Coltri sciolte	0	-3000	1800	1900	0.1	30
2	Substrato roccioso alterato	-3000	-6000	2500	2600	15	35
La stratigrafia non contiene una falda							

Verifiche in condizioni drenate.

Sollecitazioni al piano di posa.

Si riportano di seguito le componenti della sollecitazione applicata e la distanza del punto di applicazione dal centro del piano di posa della fondazione.

Rispetto al sistema di rif. globale:								
Caso	F_x [daN]	F_y [daN]	F_z [daN]	M_x [daN*m]	M_y [daN*m]	dx [cm]	dy [cm]	dz [cm]
1-1	12148.78	4090.41	-508275.52	-181024.06	249929.31	0	0	10
2-1	-7825.81	2016.02	-330128.4	-135438.95	170575.09	0	0	10
2-2	-5212.59	2428.82	-336127.4	-134437.02	167719.7	0	0	10
2-3	-7775.57	2046.1	-330051.4	-134894.94	171061.29	0	0	10
2-4	-5162.35	2458.9	-336051.4	-133893.02	168205.9	0	0	10
2-5	22036.51	1864.84	-330650.4	-136569.61	127903.45	0	0	10

2-6	24649.73	2277.64	-336649.4	-135567.69	125048.06	0	0	10
2-7	22086.76	1894.92	-330573.4	-136025.61	128389.66	0	0	10
2-8	24699.98	2307.72	-336572.4	-135023.68	125534.27	0	0	10
2-9	-8242.63	1907.97	-330283.4	-136593.92	171425.08	0	0	10
2-10	-5629.41	2320.77	-336282.4	-135592	168569.69	0	0	10
2-11	-8192.38	1938.05	-330206.4	-136049.92	171911.29	0	0	10
2-12	-5579.16	2350.85	-336205.4	-135047.99	169055.9	0	0	10
2-13	21619.7	1756.8	-330804.4	-137724.59	128753.45	0	0	10
2-14	24232.92	2169.6	-336804.4	-136722.67	125898.06	0	0	10
2-15	21669.95	1786.88	-330728.4	-137180.59	129239.65	0	0	10
2-16	24283.17	2199.68	-336727.4	-136178.66	126384.26	0	0	10
3-1	-7825.81	2016.02	-330128.4	-135438.95	170575.09	0	0	10
3-2	-5212.59	2428.82	-336127.4	-134437.02	167719.7	0	0	10
3-3	-7775.57	2046.1	-330051.4	-134894.94	171061.29	0	0	10
3-4	-5162.35	2458.9	-336051.4	-133893.02	168205.9	0	0	10
3-5	22036.51	1864.84	-330650.4	-136569.61	127903.45	0	0	10
3-6	24649.73	2277.64	-336649.4	-135567.69	125048.06	0	0	10
3-7	22086.76	1894.92	-330573.4	-136025.61	128389.66	0	0	10
3-8	24699.98	2307.72	-336572.4	-135023.68	125534.27	0	0	10
3-9	-8242.63	1907.97	-330283.4	-136593.92	171425.08	0	0	10
3-10	-5629.41	2320.77	-336282.4	-135592	168569.69	0	0	10
3-11	-8192.38	1938.05	-330206.4	-136049.92	171911.29	0	0	10
3-12	-5579.16	2350.85	-336205.4	-135047.99	169055.9	0	0	10
3-13	21619.7	1756.8	-330804.4	-137724.59	128753.45	0	0	10
3-14	24232.92	2169.6	-336804.4	-136722.67	125898.06	0	0	10
3-15	21669.95	1786.88	-330728.4	-137180.59	129239.65	0	0	10
3-16	24283.17	2199.68	-336727.4	-136178.66	126384.26	0	0	10
4-1	-627.26	1408.59	-323455.4	-138042.51	158701.56	0	0	10
4-2	8331.44	1363.24	-323611.4	-138381.71	145900.07	0	0	10
4-3	-752.3	1376.18	-323501.4	-138389	158956.56	0	0	10
4-4	8206.4	1330.83	-323658.4	-138728.2	146155.07	0	0	10
4-5	8083.48	2784.6	-343452.4	-134702.76	149183.6	0	0	10
4-6	17042.17	2739.25	-343609.4	-135041.96	136382.11	0	0	10
4-7	7958.43	2752.19	-343499.4	-135049.25	149438.59	0	0	10
4-8	16917.13	2706.84	-343655.4	-135388.45	136637.1	0	0	10
4-9	-459.78	1508.86	-323200.4	-136229.15	160322.25	0	0	10
4-10	8498.92	1463.5	-323356.4	-136568.35	147520.75	0	0	10
4-11	-584.82	1476.44	-323246.4	-136575.65	160577.24	0	0	10
4-12	8373.88	1431.09	-323403.4	-136914.85	147775.75	0	0	10
4-13	8250.96	2884.87	-343197.4	-132889.41	150804.28	0	0	10
4-14	17209.66	2839.51	-343354.4	-133228.61	138002.79	0	0	10
4-15	8125.91	2852.45	-343244.4	-133235.9	151059.28	0	0	10
4-16	17084.61	2807.1	-343400.4	-133575.1	138257.79	0	0	10
5-1	-627.26	1408.59	-323455.4	-138042.51	158701.56	0	0	10
5-2	8331.44	1363.24	-323611.4	-138381.71	145900.07	0	0	10
5-3	-752.3	1376.18	-323501.4	-138389	158956.56	0	0	10
5-4	8206.4	1330.83	-323658.4	-138728.2	146155.07	0	0	10
5-5	8083.48	2784.6	-343452.4	-134702.76	149183.6	0	0	10
5-6	17042.17	2739.25	-343609.4	-135041.96	136382.11	0	0	10
5-7	7958.43	2752.19	-343499.4	-135049.25	149438.59	0	0	10
5-8	16917.13	2706.84	-343655.4	-135388.45	136637.1	0	0	10
5-9	-459.78	1508.86	-323200.4	-136229.15	160322.25	0	0	10
5-10	8498.92	1463.5	-323356.4	-136568.35	147520.75	0	0	10
5-11	-584.82	1476.44	-323246.4	-136575.65	160577.24	0	0	10
5-12	8373.88	1431.09	-323403.4	-136914.85	147775.75	0	0	10
5-13	8250.96	2884.87	-343197.4	-132889.41	150804.28	0	0	10
5-14	17209.66	2839.51	-343354.4	-133228.61	138002.79	0	0	10
5-15	8125.91	2852.45	-343244.4	-133235.9	151059.28	0	0	10
5-16	17084.61	2807.1	-343400.4	-133575.1	138257.79	0	0	10
6-1	-9431.26	2006.83	-329798.4	-135401.96	172784.63	0	0	10
6-2	-6556.72	2460.92	-336397.4	-134299.84	169643.7	0	0	10
6-3	-9375.99	2039.92	-329714.4	-134803.55	173319.46	0	0	10
6-4	-6501.45	2494	-336313.4	-133701.44	170178.53	0	0	10
6-5	23417.3	1840.54	-330372.4	-136645.69	125845.83	0	0	10
6-6	26291.84	2294.62	-336971.4	-135543.58	122704.9	0	0	10
6-7	23472.57	1873.63	-330288.4	-136047.29	126380.66	0	0	10
6-8	26347.11	2327.71	-336887.4	-134945.17	123239.73	0	0	10
6-9	-9889.76	1887.98	-329968.4	-136672.44	173719.62	0	0	10
6-10	-7015.21	2342.07	-336567.4	-135570.32	170578.69	0	0	10

6-11	-9834.49	1921.07	-329884.4	-136074.03	174254.45	0	0	10
6-12	-6959.94	2375.15	-336483.4	-134971.91	171113.52	0	0	10
6-13	22958.8	1721.69	-330542.4	-137916.17	126780.82	0	0	10
6-14	25833.35	2175.77	-337141.4	-136814.05	123639.89	0	0	10
6-15	23014.07	1754.78	-330458.4	-137317.76	127315.65	0	0	10
6-16	25888.62	2208.86	-337057.4	-136215.65	124174.72	0	0	10
7-1	-9431.26	2006.83	-329798.4	-135401.96	172784.63	0	0	10
7-2	-6556.72	2460.92	-336397.4	-134299.84	169643.7	0	0	10
7-3	-9375.99	2039.92	-329714.4	-134803.55	173319.46	0	0	10
7-4	-6501.45	2494	-336313.4	-133701.44	170178.53	0	0	10
7-5	23417.3	1840.54	-330372.4	-136645.69	125845.83	0	0	10
7-6	26291.84	2294.62	-336971.4	-135543.58	122704.9	0	0	10
7-7	23472.57	1873.63	-330288.4	-136047.29	126380.66	0	0	10
7-8	26347.11	2327.71	-336887.4	-134945.17	123239.73	0	0	10
7-9	-9889.76	1887.98	-329968.4	-136672.44	173719.62	0	0	10
7-10	-7015.21	2342.07	-336567.4	-135570.32	170578.69	0	0	10
7-11	-9834.49	1921.07	-329884.4	-136074.03	174254.45	0	0	10
7-12	-6959.94	2375.15	-336483.4	-134971.91	171113.52	0	0	10
7-13	22958.8	1721.69	-330542.4	-137916.17	126780.82	0	0	10
7-14	25833.35	2175.77	-337141.4	-136814.05	123639.89	0	0	10
7-15	23014.07	1754.78	-330458.4	-137317.76	127315.65	0	0	10
7-16	25888.62	2208.86	-337057.4	-136215.65	124174.72	0	0	10
8-1	-1512.85	1338.67	-322457.4	-138265.88	159723.75	0	0	10
8-2	8341.72	1288.78	-322630.4	-138639	145642.11	0	0	10
8-3	-1650.4	1303.01	-322509.4	-138647.02	160004.25	0	0	10
8-4	8204.17	1253.13	-322681.4	-139020.14	145922.61	0	0	10
8-5	8068.96	2852.28	-344455.4	-134592.16	149253.99	0	0	10
8-6	17923.52	2802.39	-344627.4	-134965.28	135172.35	0	0	10
8-7	7931.41	2816.62	-344506.4	-134973.3	149534.49	0	0	10
8-8	17785.98	2766.74	-344678.4	-135346.42	135452.85	0	0	10
8-9	-1328.62	1448.96	-322177.4	-136271.19	161506.5	0	0	10
8-10	8525.95	1399.07	-322349.4	-136644.31	147424.86	0	0	10
8-11	-1466.17	1413.3	-322228.4	-136652.33	161787	0	0	10
8-12	8388.4	1363.42	-322400.4	-137025.45	147705.36	0	0	10
8-13	8253.19	2962.57	-344174.4	-132597.47	151036.74	0	0	10
8-14	18107.75	2912.68	-344346.4	-132970.59	136955.1	0	0	10
8-15	8115.64	2926.91	-344225.4	-132978.61	151317.24	0	0	10
8-16	17970.21	2877.03	-344398.4	-133351.73	137235.6	0	0	10
9-1	-1512.85	1338.67	-322457.4	-138265.88	159723.75	0	0	10
9-2	8341.72	1288.78	-322630.4	-138639	145642.11	0	0	10
9-3	-1650.4	1303.01	-322509.4	-138647.02	160004.25	0	0	10
9-4	8204.17	1253.13	-322681.4	-139020.14	145922.61	0	0	10
9-5	8068.96	2852.28	-344455.4	-134592.16	149253.99	0	0	10
9-6	17923.52	2802.39	-344627.4	-134965.28	135172.35	0	0	10
9-7	7931.41	2816.62	-344506.4	-134973.3	149534.49	0	0	10
9-8	17785.98	2766.74	-344678.4	-135346.42	135452.85	0	0	10
9-9	-1328.62	1448.96	-322177.4	-136271.19	161506.5	0	0	10
9-10	8525.95	1399.07	-322349.4	-136644.31	147424.86	0	0	10
9-11	-1466.17	1413.3	-322228.4	-136652.33	161787	0	0	10
9-12	8388.4	1363.42	-322400.4	-137025.45	147705.36	0	0	10
9-13	8253.19	2962.57	-344174.4	-132597.47	151036.74	0	0	10
9-14	18107.75	2912.68	-344346.4	-132970.59	136955.1	0	0	10
9-15	8115.64	2926.91	-344225.4	-132978.61	151317.24	0	0	10
9-16	17970.21	2877.03	-344398.4	-133351.73	137235.6	0	0	10
10-1	9636.05	3447.31	-408390.4	-141362.61	203504.62	0	0	10
12-1	-5497.91	2029.33	-330606.4	-135492.57	167371.25	0	0	10
12-2	-3263.61	2382.28	-335736.4	-134635.93	164929.9	0	0	10
12-3	-5454.95	2055.05	-330541.4	-135027.45	167786.96	0	0	10
12-4	-3220.65	2408	-335670.4	-134170.81	165345.6	0	0	10
12-5	20034.38	1900.08	-331053.4	-136459.3	130887.01	0	0	10
12-6	22268.68	2253.02	-336182.4	-135602.65	128445.65	0	0	10
12-7	20077.34	1925.79	-330987.4	-135994.17	131302.71	0	0	10
12-8	22311.64	2278.74	-336116.4	-135137.53	128861.35	0	0	10
12-9	-5854.29	1936.95	-330739.4	-136480.08	168098	0	0	10
12-10	-3619.98	2289.9	-335868.4	-135623.44	165656.64	0	0	10
12-11	-5811.33	1962.67	-330673.4	-136014.96	168513.7	0	0	10
12-12	-3577.02	2315.62	-335802.4	-135158.31	166072.34	0	0	10
12-13	19678	1807.7	-331185.4	-137446.8	131613.75	0	0	10
12-14	21912.31	2160.65	-336314.4	-136590.16	129172.39	0	0	10

12-15	19720.96	1833.42	-331119.4	-136981.68	132029.45	0	0	10
12-16	21955.27	2186.36	-336249.4	-136125.03	129588.09	0	0	10
13-1	656.85	1509.99	-324901.4	-137718.62	157219.39	0	0	10
13-2	8316.54	1471.21	-325035.4	-138008.63	146274.12	0	0	10
13-3	549.94	1482.27	-324940.4	-138014.87	157437.41	0	0	10
13-4	8209.63	1443.5	-325074.4	-138304.89	146492.14	0	0	10
13-5	8104.53	2686.47	-341999.4	-134863.14	149081.53	0	0	10
13-6	15764.22	2647.7	-342132.4	-135153.15	138136.25	0	0	10
13-7	7997.62	2658.76	-342038.4	-135159.39	149299.55	0	0	10
13-8	15657.3	2619.98	-342172.4	-135449.4	138354.28	0	0	10
13-9	800.05	1595.71	-324683.4	-136168.2	158605.07	0	0	10
13-10	8459.74	1556.93	-324817.4	-136458.22	147659.8	0	0	10
13-11	693.14	1568	-324723.4	-136464.46	158823.1	0	0	10
13-12	8352.82	1529.22	-324856.4	-136754.47	147877.82	0	0	10
13-13	8247.73	2772.2	-341781.4	-133312.72	150467.21	0	0	10
13-14	15907.41	2733.42	-341915.4	-133602.74	139521.94	0	0	10
13-15	8140.81	2744.49	-341820.4	-133608.97	150685.23	0	0	10
13-16	15800.5	2705.71	-341954.4	-133898.99	139739.96	0	0	10

Rispetto al sistema di rif. locale (centro piano di posa):

Caso	Hx [daN]	Hy [daN]	Vz [daN]	Mx [daN*m]	My [daN*m]	dx [cm]	dy [cm]	dz [cm]
1-1	12148.78	4090.41	-508275.52	-181433.1	251144.19	-	-	-
2-1	-7825.81	2016.02	-330128.4	-135640.55	169792.51	-	-	-
2-2	-5212.59	2428.82	-336127.4	-134679.9	167198.44	-	-	-
2-3	-7775.57	2046.1	-330051.4	-135099.55	170283.73	-	-	-
2-4	-5162.35	2458.9	-336051.4	-134138.91	167689.67	-	-	-
2-5	22036.51	1864.84	-330650.4	-136756.09	130107.1	-	-	-
2-6	24649.73	2277.64	-336649.4	-135795.45	127513.03	-	-	-
2-7	22086.76	1894.92	-330573.4	-136215.1	130598.34	-	-	-
2-8	24699.98	2307.72	-336572.4	-135254.45	128004.27	-	-	-
2-9	-8242.63	1907.97	-330283.4	-136784.72	170600.82	-	-	-
2-10	-5629.41	2320.77	-336282.4	-135824.08	168006.75	-	-	-
2-11	-8192.38	1938.05	-330206.4	-136243.73	171092.05	-	-	-
2-12	-5579.16	2350.85	-336205.4	-135283.08	168497.98	-	-	-
2-13	21619.7	1756.8	-330804.4	-137900.27	130915.42	-	-	-
2-14	24232.92	2169.6	-336804.4	-136939.63	128321.35	-	-	-
2-15	21669.95	1786.88	-330728.4	-137359.28	131406.64	-	-	-
2-16	24283.17	2199.68	-336727.4	-136398.63	128812.58	-	-	-
3-1	-7825.81	2016.02	-330128.4	-135640.55	169792.51	-	-	-
3-2	-5212.59	2428.82	-336127.4	-134679.9	167198.44	-	-	-
3-3	-7775.57	2046.1	-330051.4	-135099.55	170283.73	-	-	-
3-4	-5162.35	2458.9	-336051.4	-134138.91	167689.67	-	-	-
3-5	22036.51	1864.84	-330650.4	-136756.09	130107.1	-	-	-
3-6	24649.73	2277.64	-336649.4	-135795.45	127513.03	-	-	-
3-7	22086.76	1894.92	-330573.4	-136215.1	130598.34	-	-	-
3-8	24699.98	2307.72	-336572.4	-135254.45	128004.27	-	-	-
3-9	-8242.63	1907.97	-330283.4	-136784.72	170600.82	-	-	-
3-10	-5629.41	2320.77	-336282.4	-135824.08	168006.75	-	-	-
3-11	-8192.38	1938.05	-330206.4	-136243.73	171092.05	-	-	-
3-12	-5579.16	2350.85	-336205.4	-135283.08	168497.98	-	-	-
3-13	21619.7	1756.8	-330804.4	-137900.27	130915.42	-	-	-
3-14	24232.92	2169.6	-336804.4	-136939.63	128321.35	-	-	-
3-15	21669.95	1786.88	-330728.4	-137359.28	131406.64	-	-	-
3-16	24283.17	2199.68	-336727.4	-136398.63	128812.58	-	-	-
4-1	-627.26	1408.59	-323455.4	-138183.37	158638.83	-	-	-
4-2	8331.44	1363.24	-323611.4	-138518.03	146733.21	-	-	-
4-3	-752.3	1376.18	-323501.4	-138526.62	158881.33	-	-	-
4-4	8206.4	1330.83	-323658.4	-138861.28	146975.71	-	-	-
4-5	8083.48	2784.6	-343452.4	-134981.22	149991.95	-	-	-
4-6	17042.17	2739.25	-343609.4	-135315.89	138086.33	-	-	-
4-7	7958.43	2752.19	-343499.4	-135324.47	150234.43	-	-	-
4-8	16917.13	2706.84	-343655.4	-135659.13	138328.81	-	-	-
4-9	-459.78	1508.86	-323200.4	-136380.04	160276.27	-	-	-
4-10	8498.92	1463.5	-323356.4	-136714.7	148370.64	-	-	-
4-11	-584.82	1476.44	-323246.4	-136723.29	160518.76	-	-	-
4-12	8373.88	1431.09	-323403.4	-137057.96	148613.14	-	-	-
4-13	8250.96	2884.87	-343197.4	-133177.9	151629.38	-	-	-
4-14	17209.66	2839.51	-343354.4	-133512.56	139723.76	-	-	-
4-15	8125.91	2852.45	-343244.4	-133521.14	151871.87	-	-	-
4-16	17084.61	2807.1	-343400.4	-133855.81	139966.25	-	-	-

5-1	-627.26	1408.59	-323455.4	-138183.37	158638.83	-	-	-
5-2	8331.44	1363.24	-323611.4	-138518.03	146733.21	-	-	-
5-3	-752.3	1376.18	-323501.4	-138526.62	158881.33	-	-	-
5-4	8206.4	1330.83	-323658.4	-138861.28	146975.71	-	-	-
5-5	8083.48	2784.6	-343452.4	-134981.22	149991.95	-	-	-
5-6	17042.17	2739.25	-343609.4	-135315.89	138086.33	-	-	-
5-7	7958.43	2752.19	-343499.4	-135324.47	150234.43	-	-	-
5-8	16917.13	2706.84	-343655.4	-135659.13	138328.81	-	-	-
5-9	-459.78	1508.86	-323200.4	-136380.04	160276.27	-	-	-
5-10	8498.92	1463.5	-323356.4	-136714.7	148370.64	-	-	-
5-11	-584.82	1476.44	-323246.4	-136723.29	160518.76	-	-	-
5-12	8373.88	1431.09	-323403.4	-137057.96	148613.14	-	-	-
5-13	8250.96	2884.87	-343197.4	-133177.9	151629.38	-	-	-
5-14	17209.66	2839.51	-343354.4	-133512.56	139723.76	-	-	-
5-15	8125.91	2852.45	-343244.4	-133521.14	151871.87	-	-	-
5-16	17084.61	2807.1	-343400.4	-133855.81	139966.25	-	-	-
6-1	-9431.26	2006.83	-329798.4	-135602.64	171841.5	-	-	-
6-2	-6556.72	2460.92	-336397.4	-134545.93	168988.03	-	-	-
6-3	-9375.99	2039.92	-329714.4	-135007.54	172381.86	-	-	-
6-4	-6501.45	2494	-336313.4	-133950.84	169528.39	-	-	-
6-5	23417.3	1840.54	-330372.4	-136829.74	128187.56	-	-	-
6-6	26291.84	2294.62	-336971.4	-135773.04	125334.08	-	-	-
6-7	23472.57	1873.63	-330288.4	-136234.65	128727.92	-	-	-
6-8	26347.11	2327.71	-336887.4	-135177.94	125874.44	-	-	-
6-9	-9889.76	1887.98	-329968.4	-136861.24	172730.64	-	-	-
6-10	-7015.21	2342.07	-336567.4	-135804.53	169877.17	-	-	-
6-11	-9834.49	1921.07	-329884.4	-136266.14	173271	-	-	-
6-12	-6959.94	2375.15	-336483.4	-135209.42	170417.53	-	-	-
6-13	22958.8	1721.69	-330542.4	-138088.34	129076.7	-	-	-
6-14	25833.35	2175.77	-337141.4	-137031.63	126223.23	-	-	-
6-15	23014.07	1754.78	-330458.4	-137493.24	129617.06	-	-	-
6-16	25888.62	2208.86	-337057.4	-136436.54	126763.58	-	-	-
7-1	-9431.26	2006.83	-329798.4	-135602.64	171841.5	-	-	-
7-2	-6556.72	2460.92	-336397.4	-134545.93	168988.03	-	-	-
7-3	-9375.99	2039.92	-329714.4	-135007.54	172381.86	-	-	-
7-4	-6501.45	2494	-336313.4	-133950.84	169528.39	-	-	-
7-5	23417.3	1840.54	-330372.4	-136829.74	128187.56	-	-	-
7-6	26291.84	2294.62	-336971.4	-135773.04	125334.08	-	-	-
7-7	23472.57	1873.63	-330288.4	-136234.65	128727.92	-	-	-
7-8	26347.11	2327.71	-336887.4	-135177.94	125874.44	-	-	-
7-9	-9889.76	1887.98	-329968.4	-136861.24	172730.64	-	-	-
7-10	-7015.21	2342.07	-336567.4	-135804.53	169877.17	-	-	-
7-11	-9834.49	1921.07	-329884.4	-136266.14	173271	-	-	-
7-12	-6959.94	2375.15	-336483.4	-135209.42	170417.53	-	-	-
7-13	22958.8	1721.69	-330542.4	-138088.34	129076.7	-	-	-
7-14	25833.35	2175.77	-337141.4	-137031.63	126223.23	-	-	-
7-15	23014.07	1754.78	-330458.4	-137493.24	129617.06	-	-	-
7-16	25888.62	2208.86	-337057.4	-136436.54	126763.58	-	-	-
8-1	-1512.85	1338.67	-322457.4	-138399.75	159572.46	-	-	-
8-2	8341.72	1288.78	-322630.4	-138767.88	146476.28	-	-	-
8-3	-1650.4	1303.01	-322509.4	-138777.32	159839.21	-	-	-
8-4	8204.17	1253.13	-322681.4	-139145.45	146743.03	-	-	-
8-5	8068.96	2852.28	-344455.4	-134877.39	150060.89	-	-	-
8-6	17923.52	2802.39	-344627.4	-135245.52	136964.7	-	-	-
8-7	7931.41	2816.62	-344506.4	-135254.96	150327.63	-	-	-
8-8	17785.98	2766.74	-344678.4	-135623.09	137231.45	-	-	-
8-9	-1328.62	1448.96	-322177.4	-136416.09	161373.64	-	-	-
8-10	8525.95	1399.07	-322349.4	-136784.22	148277.46	-	-	-
8-11	-1466.17	1413.3	-322228.4	-136793.66	161640.38	-	-	-
8-12	8388.4	1363.42	-322400.4	-137161.79	148544.2	-	-	-
8-13	8253.19	2962.57	-344174.4	-132893.73	151862.06	-	-	-
8-14	18107.75	2912.68	-344346.4	-133261.86	138765.87	-	-	-
8-15	8115.64	2926.91	-344225.4	-133271.3	152128.8	-	-	-
8-16	17970.21	2877.03	-344398.4	-133639.43	139032.62	-	-	-
9-1	-1512.85	1338.67	-322457.4	-138399.75	159572.46	-	-	-
9-2	8341.72	1288.78	-322630.4	-138767.88	146476.28	-	-	-
9-3	-1650.4	1303.01	-322509.4	-138777.32	159839.21	-	-	-
9-4	8204.17	1253.13	-322681.4	-139145.45	146743.03	-	-	-
9-5	8068.96	2852.28	-344455.4	-134877.39	150060.89	-	-	-

9-6	17923.52	2802.39	-344627.4	-135245.52	136964.7	-	-	-
9-7	7931.41	2816.62	-344506.4	-135254.96	150327.63	-	-	-
9-8	17785.98	2766.74	-344678.4	-135623.09	137231.45	-	-	-
9-9	-1328.62	1448.96	-322177.4	-136416.09	161373.64	-	-	-
9-10	8525.95	1399.07	-322349.4	-136784.22	148277.46	-	-	-
9-11	-1466.17	1413.3	-322228.4	-136793.66	161640.38	-	-	-
9-12	8388.4	1363.42	-322400.4	-137161.79	148544.2	-	-	-
9-13	8253.19	2962.57	-344174.4	-132893.73	151862.06	-	-	-
9-14	18107.75	2912.68	-344346.4	-133261.86	138765.87	-	-	-
9-15	8115.64	2926.91	-344225.4	-133271.3	152128.8	-	-	-
9-16	17970.21	2877.03	-344398.4	-133639.43	139032.62	-	-	-
10-1	9636.05	3447.31	-408390.4	-141707.34	204468.23	-	-	-
12-1	-5497.91	2029.33	-330606.4	-135695.5	166821.46	-	-	-
12-2	-3263.61	2382.28	-335736.4	-134874.16	164603.54	-	-	-
12-3	-5454.95	2055.05	-330541.4	-135232.96	167241.46	-	-	-
12-4	-3220.65	2408	-335670.4	-134411.61	165023.54	-	-	-
12-5	20034.38	1900.08	-331053.4	-136649.31	132890.45	-	-	-
12-6	22268.68	2253.02	-336182.4	-135827.95	130672.52	-	-	-
12-7	20077.34	1925.79	-330987.4	-136186.75	133310.44	-	-	-
12-8	22311.64	2278.74	-336116.4	-135365.4	131092.51	-	-	-
12-9	-5854.29	1936.95	-330739.4	-136673.77	167512.57	-	-	-
12-10	-3619.98	2289.9	-335868.4	-135852.43	165294.64	-	-	-
12-11	-5811.33	1962.67	-330673.4	-136211.23	167932.57	-	-	-
12-12	-3577.02	2315.62	-335802.4	-135389.87	165714.64	-	-	-
12-13	19678	1807.7	-331185.4	-137627.57	133581.55	-	-	-
12-14	21912.31	2160.65	-336314.4	-136806.23	131363.62	-	-	-
12-15	19720.96	1833.42	-331119.4	-137165.02	134001.55	-	-	-
12-16	21955.27	2186.36	-336249.4	-136343.67	131783.62	-	-	-
13-1	656.85	1509.99	-324901.4	-137869.62	157285.08	-	-	-
13-2	8316.54	1471.21	-325035.4	-138155.75	147105.77	-	-	-
13-3	549.94	1482.27	-324940.4	-138163.1	157492.4	-	-	-
13-4	8209.63	1443.5	-325074.4	-138449.24	147313.1	-	-	-
13-5	8104.53	2686.47	-341999.4	-135131.79	149891.98	-	-	-
13-6	15764.22	2647.7	-342132.4	-135417.92	139712.67	-	-	-
13-7	7997.62	2658.76	-342038.4	-135425.27	150099.31	-	-	-
13-8	15657.3	2619.98	-342172.4	-135711.4	139920.01	-	-	-
13-9	800.05	1595.71	-324683.4	-136327.77	158685.08	-	-	-
13-10	8459.74	1556.93	-324817.4	-136613.91	148505.77	-	-	-
13-11	693.14	1568	-324723.4	-136621.26	158892.41	-	-	-
13-12	8352.82	1529.22	-324856.4	-136907.39	148713.1	-	-	-
13-13	8247.73	2772.2	-341781.4	-133589.94	151291.98	-	-	-
13-14	15907.41	2733.42	-341915.4	-133876.08	141112.68	-	-	-
13-15	8140.81	2744.49	-341820.4	-133883.42	151499.31	-	-	-
13-16	15800.5	2705.71	-341954.4	-134169.56	141320.01	-	-	-

Le sollecitazioni applicate provocano un' eccentricità lungo X (max = 52.52 [cm]) e lungo Y (max = 43.12 [cm]), perciò le verifiche vengono eseguite sulla fondazione ridotta rettangolare.

Caso	ecc. X [cm]	ecc. Y [cm]	Asse B	Asse L
1-1	49.41	35.7	asse Y	asse X
2-1	51.43	41.09	asse Y	asse X
2-2	49.74	40.07	asse Y	asse X
2-3	51.59	40.93	asse Y	asse X
2-4	49.9	39.92	asse Y	asse X
2-5	39.35	41.36	asse Y	asse X
2-6	37.88	40.34	asse Y	asse X
2-7	39.51	41.21	asse Y	asse X
2-8	38.03	40.19	asse Y	asse X
2-9	51.65	41.41	asse Y	asse X
2-10	49.96	40.39	asse Y	asse X
2-11	51.81	41.26	asse Y	asse X
2-12	50.12	40.24	asse Y	asse X
2-13	39.57	41.69	asse Y	asse X
2-14	38.1	40.66	asse Y	asse X
2-15	39.73	41.53	asse Y	asse X
2-16	38.25	40.51	asse Y	asse X
3-1	51.43	41.09	asse Y	asse X
3-2	49.74	40.07	asse Y	asse X
3-3	51.59	40.93	asse Y	asse X
3-4	49.9	39.92	asse Y	asse X

3-5	39.35	41.36	asse Y	asse X
3-6	37.88	40.34	asse Y	asse X
3-7	39.51	41.21	asse Y	asse X
3-8	38.03	40.19	asse Y	asse X
3-9	51.65	41.41	asse Y	asse X
3-10	49.96	40.39	asse Y	asse X
3-11	51.81	41.26	asse Y	asse X
3-12	50.12	40.24	asse Y	asse X
3-13	39.57	41.69	asse Y	asse X
3-14	38.1	40.66	asse Y	asse X
3-15	39.73	41.53	asse Y	asse X
3-16	38.25	40.51	asse Y	asse X
4-1	49.05	42.72	asse Y	asse X
4-2	45.34	42.8	asse Y	asse X
4-3	49.11	42.82	asse Y	asse X
4-4	45.41	42.9	asse Y	asse X
4-5	43.67	39.3	asse Y	asse X
4-6	40.19	39.38	asse Y	asse X
4-7	43.74	39.4	asse Y	asse X
4-8	40.25	39.48	asse Y	asse X
4-9	49.59	42.2	asse Y	asse X
4-10	45.88	42.28	asse Y	asse X
4-11	49.66	42.3	asse Y	asse X
4-12	45.95	42.38	asse Y	asse X
4-13	44.18	38.81	asse Y	asse X
4-14	40.69	38.88	asse Y	asse X
4-15	44.25	38.9	asse Y	asse X
4-16	40.76	38.98	asse Y	asse X
5-1	49.05	42.72	asse Y	asse X
5-2	45.34	42.8	asse Y	asse X
5-3	49.11	42.82	asse Y	asse X
5-4	45.41	42.9	asse Y	asse X
5-5	43.67	39.3	asse Y	asse X
5-6	40.19	39.38	asse Y	asse X
5-7	43.74	39.4	asse Y	asse X
5-8	40.25	39.48	asse Y	asse X
5-9	49.59	42.2	asse Y	asse X
5-10	45.88	42.28	asse Y	asse X
5-11	49.66	42.3	asse Y	asse X
5-12	45.95	42.38	asse Y	asse X
5-13	44.18	38.81	asse Y	asse X
5-14	40.69	38.88	asse Y	asse X
5-15	44.25	38.9	asse Y	asse X
5-16	40.76	38.98	asse Y	asse X
6-1	52.11	41.12	asse Y	asse X
6-2	50.23	40	asse Y	asse X
6-3	52.28	40.95	asse Y	asse X
6-4	50.41	39.83	asse Y	asse X
6-5	38.8	41.42	asse Y	asse X
6-6	37.19	40.29	asse Y	asse X
6-7	38.97	41.25	asse Y	asse X
6-8	37.36	40.13	asse Y	asse X
6-9	52.35	41.48	asse Y	asse X
6-10	50.47	40.35	asse Y	asse X
6-11	52.52	41.31	asse Y	asse X
6-12	50.65	40.18	asse Y	asse X
6-13	39.05	41.78	asse Y	asse X
6-14	37.44	40.65	asse Y	asse X
6-15	39.22	41.61	asse Y	asse X
6-16	37.61	40.48	asse Y	asse X
7-1	52.11	41.12	asse Y	asse X
7-2	50.23	40	asse Y	asse X
7-3	52.28	40.95	asse Y	asse X
7-4	50.41	39.83	asse Y	asse X
7-5	38.8	41.42	asse Y	asse X
7-6	37.19	40.29	asse Y	asse X
7-7	38.97	41.25	asse Y	asse X
7-8	37.36	40.13	asse Y	asse X
7-9	52.35	41.48	asse Y	asse X

7-10	50.47	40.35	asse Y	asse X
7-11	52.52	41.31	asse Y	asse X
7-12	50.65	40.18	asse Y	asse X
7-13	39.05	41.78	asse Y	asse X
7-14	37.44	40.65	asse Y	asse X
7-15	39.22	41.61	asse Y	asse X
7-16	37.61	40.48	asse Y	asse X
8-1	49.49	42.92	asse Y	asse X
8-2	45.4	43.01	asse Y	asse X
8-3	49.56	43.03	asse Y	asse X
8-4	45.48	43.12	asse Y	asse X
8-5	43.56	39.16	asse Y	asse X
8-6	39.74	39.24	asse Y	asse X
8-7	43.64	39.26	asse Y	asse X
8-8	39.81	39.35	asse Y	asse X
8-9	50.09	42.34	asse Y	asse X
8-10	46	42.43	asse Y	asse X
8-11	50.16	42.45	asse Y	asse X
8-12	46.07	42.54	asse Y	asse X
8-13	44.12	38.61	asse Y	asse X
8-14	40.3	38.7	asse Y	asse X
8-15	44.19	38.72	asse Y	asse X
8-16	40.37	38.8	asse Y	asse X
9-1	49.49	42.92	asse Y	asse X
9-2	45.4	43.01	asse Y	asse X
9-3	49.56	43.03	asse Y	asse X
9-4	45.48	43.12	asse Y	asse X
9-5	43.56	39.16	asse Y	asse X
9-6	39.74	39.24	asse Y	asse X
9-7	43.64	39.26	asse Y	asse X
9-8	39.81	39.35	asse Y	asse X
9-9	50.09	42.34	asse Y	asse X
9-10	46	42.43	asse Y	asse X
9-11	50.16	42.45	asse Y	asse X
9-12	46.07	42.54	asse Y	asse X
9-13	44.12	38.61	asse Y	asse X
9-14	40.3	38.7	asse Y	asse X
9-15	44.19	38.72	asse Y	asse X
9-16	40.37	38.8	asse Y	asse X
10-1	50.07	34.7	asse Y	asse X
12-1	50.46	41.04	asse Y	asse X
12-2	49.03	40.17	asse Y	asse X
12-3	50.6	40.91	asse Y	asse X
12-4	49.16	40.04	asse Y	asse X
12-5	40.14	41.28	asse Y	asse X
12-6	38.87	40.4	asse Y	asse X
12-7	40.28	41.15	asse Y	asse X
12-8	39	40.27	asse Y	asse X
12-9	50.65	41.32	asse Y	asse X
12-10	49.21	40.45	asse Y	asse X
12-11	50.79	41.19	asse Y	asse X
12-12	49.35	40.32	asse Y	asse X
12-13	40.33	41.56	asse Y	asse X
12-14	39.06	40.68	asse Y	asse X
12-15	40.47	41.42	asse Y	asse X
12-16	39.19	40.55	asse Y	asse X
13-1	48.41	42.43	asse Y	asse X
13-2	45.26	42.5	asse Y	asse X
13-3	48.47	42.52	asse Y	asse X
13-4	45.32	42.59	asse Y	asse X
13-5	43.83	39.51	asse Y	asse X
13-6	40.84	39.58	asse Y	asse X
13-7	43.88	39.59	asse Y	asse X
13-8	40.89	39.66	asse Y	asse X
13-9	48.87	41.99	asse Y	asse X
13-10	45.72	42.06	asse Y	asse X
13-11	48.93	42.07	asse Y	asse X
13-12	45.78	42.14	asse Y	asse X
13-13	44.27	39.09	asse Y	asse X

13-14	41.27	39.15	asse Y	asse X
13-15	44.32	39.17	asse Y	asse X
13-16	41.33	39.24	asse Y	asse X

Capacità portante.

Le seguenti tabelle elencano il valore dell'angolo di resistenza al taglio, del peso di volume alleggerito, della coesione efficace, del sovraccarico alleggerito, e dei fattori e coefficienti introdotti nel calcolo della capacità portante.

Caso	γ_ϕ	γ_τ	ϕ [°]	γ' [daN/m ³]	N_τ	s_τ	d_τ	$i_{b\tau}$	i_τ	b_τ	g_τ	h_τ	$q'_{km,\gamma}$ [daN/cm ²]
1-1	1.00	1.00	30	1800	22.40	1.17	1.00	0.98	0.96	1.00	1.00	-	15.48
2-1	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.2
2-2	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.97	1.00	1.00	0.47	7.3
2-3	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.2
2-4	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.98	1.00	1.00	0.47	7.31
2-5	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.69
2-6	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.89	1.00	1.00	0.47	6.62
2-7	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.69
2-8	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.89	1.00	1.00	0.47	6.62
2-9	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.18
2-10	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.97	1.00	1.00	0.47	7.29
2-11	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.19
2-12	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.97	1.00	1.00	0.47	7.29
2-13	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.7
2-14	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.89	1.00	1.00	0.47	6.63
2-15	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.7
2-16	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.89	1.00	1.00	0.47	6.63
3-1	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.89
3-2	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.97	1.00	1.00	0.41	2.93
3-3	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.89
3-4	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.98	1.00	1.00	0.41	2.93
3-5	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.90	1.00	1.00	0.41	2.68
3-6	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.89	1.00	1.00	0.41	2.65
3-7	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.90	1.00	1.00	0.41	2.68
3-8	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.89	1.00	1.00	0.41	2.65
3-9	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.88
3-10	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.97	1.00	1.00	0.41	2.92
3-11	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.88
3-12	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.97	1.00	1.00	0.41	2.92
3-13	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.90	1.00	1.00	0.41	2.69
3-14	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.89	1.00	1.00	0.41	2.66
3-15	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.90	1.00	1.00	0.41	2.69
3-16	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.89	1.00	1.00	0.41	2.66
4-1	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	1.00	1.00	1.00	0.47	7.44
4-2	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.15
4-3	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	1.00	1.00	1.00	0.47	7.43
4-4	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.16
4-5	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.2
4-6	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.92	1.00	1.00	0.47	6.89
4-7	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.21
4-8	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.92	1.00	1.00	0.47	6.89
4-9	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	1.00	1.00	1.00	0.47	7.46
4-10	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.16
4-11	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	1.00	1.00	1.00	0.47	7.45
4-12	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.16
4-13	1.00	1.00	30	1800	22.40	1.16	1.00	0.98	0.96	1.00	1.00	0.47	7.21
4-14	1.00	1.00	30	1800	22.40	1.16	1.00	0.98	0.92	1.00	1.00	0.47	6.89
4-15	1.00	1.00	30	1800	22.40	1.16	1.00	0.98	0.96	1.00	1.00	0.47	7.21
4-16	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.92	1.00	1.00	0.47	6.9
5-1	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	1.00	1.00	1.00	0.41	2.98
5-2	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.87
5-3	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	1.00	1.00	1.00	0.41	2.98
5-4	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.87
5-5	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.89
5-6	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.92	1.00	1.00	0.41	2.76
5-7	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.89
5-8	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.92	1.00	1.00	0.41	2.76

5-9	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	1.00	1.00	1.00	0.41	2.99
5-10	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.87
5-11	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	1.00	1.00	1.00	0.41	2.99
5-12	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.87
5-13	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.98	0.96	1.00	1.00	0.41	2.89
5-14	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.98	0.92	1.00	1.00	0.41	2.76
5-15	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.98	0.96	1.00	1.00	0.41	2.89
5-16	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.92	1.00	1.00	0.41	2.77
6-1	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.95	1.00	1.00	0.47	7.14
6-2	1.00	1.00	30	1800	22.40	1.17	1.00	0.99	0.97	1.00	1.00	0.47	7.26
6-3	1.00	1.00	30	1800	22.40	1.17	1.00	0.99	0.95	1.00	1.00	0.47	7.15
6-4	1.00	1.00	30	1800	22.40	1.17	1.00	0.99	0.97	1.00	1.00	0.47	7.26
6-5	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.89	1.00	1.00	0.47	6.64
6-6	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.88	1.00	1.00	0.47	6.56
6-7	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.89	1.00	1.00	0.47	6.64
6-8	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.88	1.00	1.00	0.47	6.56
6-9	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.95	1.00	1.00	0.47	7.12
6-10	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.97	1.00	1.00	0.47	7.24
6-11	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.95	1.00	1.00	0.47	7.13
6-12	1.00	1.00	30	1800	22.40	1.17	1.00	0.99	0.97	1.00	1.00	0.47	7.24
6-13	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.89	1.00	1.00	0.47	6.65
6-14	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.88	1.00	1.00	0.47	6.57
6-15	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.89	1.00	1.00	0.47	6.65
6-16	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.88	1.00	1.00	0.47	6.58
7-1	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.95	1.00	1.00	0.41	2.86
7-2	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.97	1.00	1.00	0.41	2.91
7-3	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.95	1.00	1.00	0.41	2.86
7-4	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.97	1.00	1.00	0.41	2.91
7-5	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.89	1.00	1.00	0.41	2.66
7-6	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.88	1.00	1.00	0.41	2.63
7-7	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.89	1.00	1.00	0.41	2.66
7-8	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.88	1.00	1.00	0.41	2.63
7-9	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.95	1.00	1.00	0.41	2.85
7-10	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.97	1.00	1.00	0.41	2.9
7-11	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.95	1.00	1.00	0.41	2.86
7-12	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.97	1.00	1.00	0.41	2.9
7-13	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.89	1.00	1.00	0.41	2.67
7-14	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.88	1.00	1.00	0.41	2.64
7-15	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.89	1.00	1.00	0.41	2.67
7-16	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.88	1.00	1.00	0.41	2.64
8-1	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.99	1.00	1.00	0.47	7.41
8-2	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.15
8-3	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.99	1.00	1.00	0.47	7.4
8-4	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.15
8-5	1.00	1.00	30	1800	22.40	1.16	1.00	0.98	0.96	1.00	1.00	0.47	7.2
8-6	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.92	1.00	1.00	0.47	6.86
8-7	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.21
8-8	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.92	1.00	1.00	0.47	6.87
8-9	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.99	1.00	1.00	0.47	7.42
8-10	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.15
8-11	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.99	1.00	1.00	0.47	7.42
8-12	1.00	1.00	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.16
8-13	1.00	1.00	30	1800	22.40	1.16	1.00	0.98	0.96	1.00	1.00	0.47	7.21
8-14	1.00	1.00	30	1800	22.40	1.16	1.00	0.98	0.92	1.00	1.00	0.47	6.87
8-15	1.00	1.00	30	1800	22.40	1.16	1.00	0.98	0.96	1.00	1.00	0.47	7.21
8-16	1.00	1.00	30	1800	22.40	1.16	1.00	0.98	0.92	1.00	1.00	0.47	6.87
9-1	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.99	1.00	1.00	0.41	2.97
9-2	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.87
9-3	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.99	1.00	1.00	0.41	2.97
9-4	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.87
9-5	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.98	0.96	1.00	1.00	0.41	2.89
9-6	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.92	1.00	1.00	0.41	2.75
9-7	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.89
9-8	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.92	1.00	1.00	0.41	2.75
9-9	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.99	1.00	1.00	0.41	2.98
9-10	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.87
9-11	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.99	1.00	1.00	0.41	2.97
9-12	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.99	0.96	1.00	1.00	0.41	2.87
9-13	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.98	0.96	1.00	1.00	0.41	2.89

9-14	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.98	0.92	1.00	1.00	0.41	2.75
9-15	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.98	0.96	1.00	1.00	0.41	2.89
9-16	1.25	1.00	24.8	1800	10.56	1.13	1.00	0.98	0.92	1.00	1.00	0.41	2.75
10-1	1.25	1.00	24.8	1800	10.56	1.14	1.00	0.98	0.96	1.00	1.00	-	7.15
12-1	-	-	30	1800	22.40	1.16	1.00	0.99	0.97	1.00	1.00	0.47	7.28
12-2	-	-	30	1800	22.40	1.16	1.00	0.99	0.98	1.00	1.00	0.47	7.37
12-3	-	-	30	1800	22.40	1.16	1.00	0.99	0.97	1.00	1.00	0.47	7.29
12-4	-	-	30	1800	22.40	1.16	1.00	0.99	0.98	1.00	1.00	0.47	7.37
12-5	-	-	30	1800	22.40	1.16	1.00	0.99	0.91	1.00	1.00	0.47	6.76
12-6	-	-	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.7
12-7	-	-	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.76
12-8	-	-	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.7
12-9	-	-	30	1800	22.40	1.16	1.00	0.99	0.97	1.00	1.00	0.47	7.27
12-10	-	-	30	1800	22.40	1.16	1.00	0.99	0.98	1.00	1.00	0.47	7.36
12-11	-	-	30	1800	22.40	1.16	1.00	0.99	0.97	1.00	1.00	0.47	7.27
12-12	-	-	30	1800	22.40	1.16	1.00	0.99	0.98	1.00	1.00	0.47	7.36
12-13	-	-	30	1800	22.40	1.16	1.00	0.99	0.91	1.00	1.00	0.47	6.77
12-14	-	-	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.71
12-15	-	-	30	1800	22.40	1.16	1.00	0.99	0.91	1.00	1.00	0.47	6.77
12-16	-	-	30	1800	22.40	1.16	1.00	0.99	0.90	1.00	1.00	0.47	6.71
13-1	-	-	30	1800	22.40	1.16	1.00	0.99	1.00	1.00	1.00	0.47	7.44
13-2	-	-	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.16
13-3	-	-	30	1800	22.40	1.16	1.00	0.99	1.00	1.00	1.00	0.47	7.44
13-4	-	-	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.16
13-5	-	-	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.2
13-6	-	-	30	1800	22.40	1.16	1.00	0.99	0.93	1.00	1.00	0.47	6.93
13-7	-	-	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.2
13-8	-	-	30	1800	22.40	1.16	1.00	0.99	0.93	1.00	1.00	0.47	6.93
13-9	-	-	30	1800	22.40	1.16	1.00	0.99	1.00	1.00	1.00	0.47	7.44
13-10	-	-	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.16
13-11	-	-	30	1800	22.40	1.16	1.00	0.99	1.00	1.00	1.00	0.47	7.45
13-12	-	-	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.16
13-13	-	-	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.2
13-14	-	-	30	1800	22.40	1.16	1.00	0.99	0.93	1.00	1.00	0.47	6.93
13-15	-	-	30	1800	22.40	1.16	1.00	0.99	0.96	1.00	1.00	0.47	7.21
13-16	-	-	30	1800	22.40	1.16	1.00	0.99	0.93	1.00	1.00	0.47	6.94
Caso	γ_c	c' [daN/cm²]	N_c	s_c	d_c	i_{bc}	i_{lc}	b_c	g_c	h_c	$q'_{lim,c}$ [daN/cm²]		
1-1	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	-	4.02		
2-1	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.09		
2-2	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.11		
2-3	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.09		
2-4	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.11		
2-5	1.00	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.95		
2-6	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.92		
2-7	1.00	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.95		
2-8	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.92		
2-9	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.09		
2-10	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.11		
2-11	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.09		
2-12	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.11		
2-13	1.00	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.95		
2-14	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.93		
2-15	1.00	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.95		
2-16	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.93		
3-1	1.25	0.08	20.42	1.27	1.05	0.99	0.98	1.00	1.00	0.76	1.6		
3-2	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.61		
3-3	1.25	0.08	20.42	1.27	1.05	0.99	0.98	1.00	1.00	0.76	1.6		
3-4	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.61		
3-5	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.52		
3-6	1.25	0.08	20.42	1.26	1.04	0.99	0.93	1.00	1.00	0.76	1.51		
3-7	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.52		
3-8	1.25	0.08	20.42	1.26	1.04	0.99	0.93	1.00	1.00	0.76	1.51		
3-9	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.6		
3-10	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.61		
3-11	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.6		
3-12	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.61		
3-13	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.52		

3-14	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.51
3-15	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.52
3-16	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.51
4-1	1.00	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.16
4-2	1.00	0.1	30.14	1.32	1.04	0.99	0.97	1.00	1.00	0.76	3.08
4-3	1.00	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.16
4-4	1.00	0.1	30.14	1.32	1.04	1.00	0.98	1.00	1.00	0.76	3.08
4-5	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
4-6	1.00	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	2.99
4-7	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
4-8	1.00	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	2.99
4-9	1.00	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.16
4-10	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.08
4-11	1.00	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.16
4-12	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.08
4-13	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
4-14	1.00	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	2.99
4-15	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
4-16	1.00	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	2.99
5-1	1.25	0.08	20.42	1.27	1.05	0.99	1.00	1.00	1.00	0.76	1.64
5-2	1.25	0.08	20.42	1.26	1.05	0.99	0.97	1.00	1.00	0.76	1.59
5-3	1.25	0.08	20.42	1.27	1.05	0.99	1.00	1.00	1.00	0.76	1.64
5-4	1.25	0.08	20.42	1.26	1.05	0.99	0.97	1.00	1.00	0.76	1.6
5-5	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.59
5-6	1.25	0.08	20.42	1.27	1.04	0.99	0.95	1.00	1.00	0.76	1.55
5-7	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.59
5-8	1.25	0.08	20.42	1.27	1.04	0.99	0.95	1.00	1.00	0.76	1.55
5-9	1.25	0.08	20.42	1.27	1.05	0.99	1.00	1.00	1.00	0.76	1.64
5-10	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.59
5-11	1.25	0.08	20.42	1.27	1.05	0.99	1.00	1.00	1.00	0.76	1.64
5-12	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.59
5-13	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.59
5-14	1.25	0.08	20.42	1.27	1.04	0.99	0.95	1.00	1.00	0.76	1.55
5-15	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.59
5-16	1.25	0.08	20.42	1.27	1.04	0.99	0.95	1.00	1.00	0.76	1.55
6-1	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.08
6-2	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.1
6-3	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.08
6-4	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.1
6-5	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.93
6-6	1.00	0.1	30.14	1.32	1.04	0.99	0.92	1.00	1.00	0.76	2.91
6-7	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.93
6-8	1.00	0.1	30.14	1.32	1.04	0.99	0.92	1.00	1.00	0.76	2.91
6-9	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.07
6-10	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.1
6-11	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.07
6-12	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.1
6-13	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.94
6-14	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.91
6-15	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.94
6-16	1.00	0.1	30.14	1.32	1.04	0.99	0.93	1.00	1.00	0.76	2.91
7-1	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.59
7-2	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.6
7-3	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.59
7-4	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.6
7-5	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.52
7-6	1.25	0.08	20.42	1.26	1.04	0.99	0.92	1.00	1.00	0.76	1.5
7-7	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.51
7-8	1.25	0.08	20.42	1.26	1.04	0.99	0.92	1.00	1.00	0.76	1.5
7-9	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.59
7-10	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.6
7-11	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.59
7-12	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.6
7-13	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.52
7-14	1.25	0.08	20.42	1.26	1.05	0.99	0.92	1.00	1.00	0.76	1.5
7-15	1.25	0.08	20.42	1.26	1.05	0.99	0.93	1.00	1.00	0.76	1.52
7-16	1.25	0.08	20.42	1.26	1.04	0.99	0.92	1.00	1.00	0.76	1.5
8-1	1.00	0.1	30.14	1.33	1.04	1.00	1.00	1.00	1.00	0.76	3.15
8-2	1.00	0.1	30.14	1.32	1.04	1.00	0.97	1.00	1.00	0.76	3.08

8-3	1.00	0.1	30.14	1.33	1.04	1.00	0.99	1.00	1.00	0.76	3.15
8-4	1.00	0.1	30.14	1.32	1.04	1.00	0.98	1.00	1.00	0.76	3.08
8-5	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
8-6	1.00	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	2.98
8-7	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
8-8	1.00	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	2.99
8-9	1.00	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.15
8-10	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.08
8-11	1.00	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.15
8-12	1.00	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.08
8-13	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
8-14	1.00	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	2.98
8-15	1.00	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
8-16	1.00	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	2.98
9-1	1.25	0.08	20.42	1.27	1.05	0.99	1.00	1.00	1.00	0.76	1.63
9-2	1.25	0.08	20.42	1.26	1.05	1.00	0.97	1.00	1.00	0.76	1.59
9-3	1.25	0.08	20.42	1.27	1.05	0.99	0.99	1.00	1.00	0.76	1.63
9-4	1.25	0.08	20.42	1.26	1.05	1.00	0.97	1.00	1.00	0.76	1.6
9-5	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.59
9-6	1.25	0.08	20.42	1.27	1.04	0.99	0.95	1.00	1.00	0.76	1.54
9-7	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.59
9-8	1.25	0.08	20.42	1.26	1.04	0.99	0.95	1.00	1.00	0.76	1.54
9-9	1.25	0.08	20.42	1.27	1.05	0.99	1.00	1.00	1.00	0.76	1.63
9-10	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.59
9-11	1.25	0.08	20.42	1.27	1.05	0.99	1.00	1.00	1.00	0.76	1.63
9-12	1.25	0.08	20.42	1.27	1.05	0.99	0.97	1.00	1.00	0.76	1.59
9-13	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.59
9-14	1.25	0.08	20.42	1.27	1.04	0.99	0.95	1.00	1.00	0.76	1.54
9-15	1.25	0.08	20.42	1.27	1.04	0.99	0.98	1.00	1.00	0.76	1.59
9-16	1.25	0.08	20.42	1.27	1.04	0.99	0.95	1.00	1.00	0.76	1.54
10-1	1.25	0.08	20.42	1.27	1.04	0.99	0.97	1.00	1.00	-	2.09
12-1	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.11
12-2	-	0.1	30.14	1.33	1.04	0.99	0.99	1.00	1.00	0.76	3.13
12-3	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.11
12-4	-	0.1	30.14	1.33	1.04	0.99	0.99	1.00	1.00	0.76	3.13
12-5	-	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.97
12-6	-	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.94
12-7	-	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.97
12-8	-	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.94
12-9	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.11
12-10	-	0.1	30.14	1.33	1.04	0.99	0.99	1.00	1.00	0.76	3.13
12-11	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.11
12-12	-	0.1	30.14	1.33	1.04	0.99	0.99	1.00	1.00	0.76	3.13
12-13	-	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.97
12-14	-	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.95
12-15	-	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.97
12-16	-	0.1	30.14	1.32	1.04	0.99	0.94	1.00	1.00	0.76	2.95
13-1	-	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.16
13-2	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
13-3	-	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.16
13-4	-	0.1	30.14	1.32	1.04	0.99	0.98	1.00	1.00	0.76	3.08
13-5	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
13-6	-	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	3.01
13-7	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
13-8	-	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	3.01
13-9	-	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.16
13-10	-	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.08
13-11	-	0.1	30.14	1.33	1.04	0.99	1.00	1.00	1.00	0.76	3.16
13-12	-	0.1	30.14	1.33	1.04	0.99	0.97	1.00	1.00	0.76	3.08
13-13	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
13-14	-	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	3
13-15	-	0.1	30.14	1.33	1.04	0.99	0.98	1.00	1.00	0.76	3.08
13-16	-	0.1	30.14	1.33	1.04	0.99	0.95	1.00	1.00	0.76	3.01
Caso	q' [daN/cm²]	N _q	s _q	d _q	i _{bq}	i _{iq}	b _q	g _q	h _q	q' _{lim,q} [daN/cm²]	
1-1	0.16	18.40	1.17	1.04	0.99	0.98	1.00	1.00	-	3.48	
2-1	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37	
2-2	0.16	18.40	1.16	1.04	0.99	0.99	1.00	1.00	0.68	2.39	

2-3	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
2-4	0.16	18.40	1.16	1.04	0.99	0.99	1.00	1.00	0.68	2.39
2-5	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.27
2-6	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.26
2-7	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.27
2-8	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.26
2-9	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
2-10	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.39
2-11	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
2-12	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.39
2-13	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.28
2-14	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.26
2-15	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.28
2-16	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.26
3-1	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
3-2	0.16	10.43	1.13	1.04	0.99	0.99	1.00	1.00	0.67	1.31
3-3	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
3-4	0.16	10.43	1.13	1.04	0.99	0.99	1.00	1.00	0.67	1.31
3-5	0.16	10.43	1.13	1.04	0.99	0.94	1.00	1.00	0.67	1.25
3-6	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.24
3-7	0.16	10.43	1.13	1.04	0.99	0.94	1.00	1.00	0.67	1.25
3-8	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.24
3-9	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
3-10	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.31
3-11	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
3-12	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.31
3-13	0.16	10.43	1.13	1.04	0.99	0.94	1.00	1.00	0.67	1.25
3-14	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.24
3-15	0.16	10.43	1.13	1.04	0.99	0.94	1.00	1.00	0.67	1.25
3-16	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.24
4-1	0.16	18.40	1.16	1.04	1.00	1.00	1.00	1.00	0.68	2.43
4-2	0.16	18.40	1.16	1.04	1.00	0.98	1.00	1.00	0.68	2.37
4-3	0.16	18.40	1.16	1.04	1.00	1.00	1.00	1.00	0.68	2.42
4-4	0.16	18.40	1.16	1.04	1.00	0.98	1.00	1.00	0.68	2.37
4-5	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
4-6	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.31
4-7	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
4-8	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.31
4-9	0.16	18.40	1.16	1.04	0.99	1.00	1.00	1.00	0.68	2.43
4-10	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
4-11	0.16	18.40	1.16	1.04	0.99	1.00	1.00	1.00	0.68	2.43
4-12	0.16	18.40	1.16	1.04	1.00	0.98	1.00	1.00	0.68	2.37
4-13	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.36
4-14	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.3
4-15	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.36
4-16	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.31
5-1	0.16	10.43	1.13	1.04	1.00	1.00	1.00	1.00	0.67	1.33
5-2	0.16	10.43	1.13	1.04	1.00	0.98	1.00	1.00	0.67	1.3
5-3	0.16	10.43	1.13	1.04	1.00	1.00	1.00	1.00	0.67	1.33
5-4	0.16	10.43	1.13	1.04	1.00	0.98	1.00	1.00	0.67	1.3
5-5	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
5-6	0.16	10.43	1.13	1.04	0.99	0.95	1.00	1.00	0.67	1.27
5-7	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
5-8	0.16	10.43	1.13	1.04	0.99	0.95	1.00	1.00	0.67	1.27
5-9	0.16	10.43	1.13	1.04	0.99	1.00	1.00	1.00	0.67	1.33
5-10	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
5-11	0.16	10.43	1.13	1.04	0.99	1.00	1.00	1.00	0.67	1.33
5-12	0.16	10.43	1.13	1.04	1.00	0.98	1.00	1.00	0.67	1.3
5-13	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
5-14	0.16	10.43	1.13	1.04	0.99	0.95	1.00	1.00	0.67	1.27
5-15	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
5-16	0.16	10.43	1.13	1.04	0.99	0.95	1.00	1.00	0.67	1.27
6-1	0.16	18.40	1.16	1.04	0.99	0.97	1.00	1.00	0.68	2.36
6-2	0.16	18.40	1.17	1.04	0.99	0.98	1.00	1.00	0.68	2.38
6-3	0.16	18.40	1.17	1.04	0.99	0.97	1.00	1.00	0.68	2.36
6-4	0.16	18.40	1.17	1.04	0.99	0.98	1.00	1.00	0.68	2.38
6-5	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.26
6-6	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.24
6-7	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.26

6-8	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.24
6-9	0.16	18.40	1.16	1.04	0.99	0.97	1.00	1.00	0.68	2.36
6-10	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.38
6-11	0.16	18.40	1.16	1.04	0.99	0.97	1.00	1.00	0.68	2.36
6-12	0.16	18.40	1.17	1.04	0.99	0.98	1.00	1.00	0.68	2.38
6-13	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.27
6-14	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.25
6-15	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.27
6-16	0.16	18.40	1.16	1.04	0.99	0.93	1.00	1.00	0.68	2.25
7-1	0.16	10.43	1.13	1.04	0.99	0.97	1.00	1.00	0.67	1.3
7-2	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.31
7-3	0.16	10.43	1.13	1.04	0.99	0.97	1.00	1.00	0.67	1.3
7-4	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.31
7-5	0.16	10.43	1.13	1.04	0.99	0.94	1.00	1.00	0.67	1.24
7-6	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.23
7-7	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.24
7-8	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.23
7-9	0.16	10.43	1.13	1.04	0.99	0.97	1.00	1.00	0.67	1.3
7-10	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.31
7-11	0.16	10.43	1.13	1.04	0.99	0.97	1.00	1.00	0.67	1.3
7-12	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.31
7-13	0.16	10.43	1.13	1.04	0.99	0.94	1.00	1.00	0.67	1.25
7-14	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.24
7-15	0.16	10.43	1.13	1.04	0.99	0.94	1.00	1.00	0.67	1.25
7-16	0.16	10.43	1.13	1.04	0.99	0.93	1.00	1.00	0.67	1.24
8-1	0.16	18.40	1.16	1.04	1.00	1.00	1.00	1.00	0.68	2.42
8-2	0.16	18.40	1.16	1.04	1.00	0.98	1.00	1.00	0.68	2.37
8-3	0.16	18.40	1.16	1.04	1.00	1.00	1.00	1.00	0.68	2.42
8-4	0.16	18.40	1.16	1.04	1.00	0.98	1.00	1.00	0.68	2.37
8-5	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.36
8-6	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.3
8-7	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
8-8	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.3
8-9	0.16	18.40	1.16	1.04	0.99	1.00	1.00	1.00	0.68	2.42
8-10	0.16	18.40	1.16	1.04	1.00	0.98	1.00	1.00	0.68	2.37
8-11	0.16	18.40	1.16	1.04	1.00	1.00	1.00	1.00	0.68	2.42
8-12	0.16	18.40	1.16	1.04	1.00	0.98	1.00	1.00	0.68	2.37
8-13	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.36
8-14	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.3
8-15	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.36
8-16	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.3
9-1	0.16	10.43	1.13	1.04	1.00	1.00	1.00	1.00	0.67	1.33
9-2	0.16	10.43	1.13	1.04	1.00	0.98	1.00	1.00	0.67	1.3
9-3	0.16	10.43	1.13	1.04	1.00	1.00	1.00	1.00	0.67	1.33
9-4	0.16	10.43	1.13	1.04	1.00	0.98	1.00	1.00	0.67	1.3
9-5	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
9-6	0.16	10.43	1.13	1.04	0.99	0.95	1.00	1.00	0.67	1.26
9-7	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
9-8	0.16	10.43	1.13	1.04	0.99	0.95	1.00	1.00	0.67	1.26
9-9	0.16	10.43	1.13	1.04	0.99	1.00	1.00	1.00	0.67	1.33
9-10	0.16	10.43	1.13	1.04	1.00	0.98	1.00	1.00	0.67	1.3
9-11	0.16	10.43	1.13	1.04	1.00	1.00	1.00	1.00	0.67	1.33
9-12	0.16	10.43	1.13	1.04	1.00	0.98	1.00	1.00	0.67	1.3
9-13	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
9-14	0.16	10.43	1.13	1.04	0.99	0.95	1.00	1.00	0.67	1.26
9-15	0.16	10.43	1.13	1.04	0.99	0.98	1.00	1.00	0.67	1.3
9-16	0.16	10.43	1.13	1.04	0.99	0.95	1.00	1.00	0.67	1.26
10-1	0.16	10.43	1.14	1.04	0.99	0.98	1.00	1.00	-	1.93
12-1	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.39
12-2	0.16	18.40	1.16	1.04	0.99	0.99	1.00	1.00	0.68	2.4
12-3	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.39
12-4	0.16	18.40	1.16	1.04	0.99	0.99	1.00	1.00	0.68	2.4
12-5	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.29
12-6	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.27
12-7	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.29
12-8	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.27
12-9	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.39
12-10	0.16	18.40	1.16	1.04	0.99	0.99	1.00	1.00	0.68	2.4
12-11	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.39

12-12	0.16	18.40	1.16	1.04	0.99	0.99	1.00	1.00	0.68	2.4
12-13	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.29
12-14	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.27
12-15	0.16	18.40	1.16	1.04	0.99	0.95	1.00	1.00	0.68	2.29
12-16	0.16	18.40	1.16	1.04	0.99	0.94	1.00	1.00	0.68	2.27
13-1	0.16	18.40	1.16	1.04	0.99	1.00	1.00	1.00	0.68	2.42
13-2	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
13-3	0.16	18.40	1.16	1.04	0.99	1.00	1.00	1.00	0.68	2.42
13-4	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
13-5	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
13-6	0.16	18.40	1.16	1.04	0.99	0.96	1.00	1.00	0.68	2.31
13-7	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
13-8	0.16	18.40	1.16	1.04	0.99	0.96	1.00	1.00	0.68	2.32
13-9	0.16	18.40	1.16	1.04	0.99	1.00	1.00	1.00	0.68	2.42
13-10	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
13-11	0.16	18.40	1.16	1.04	0.99	1.00	1.00	1.00	0.68	2.42
13-12	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
13-13	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.36
13-14	0.16	18.40	1.16	1.04	0.99	0.96	1.00	1.00	0.68	2.31
13-15	0.16	18.40	1.16	1.04	0.99	0.98	1.00	1.00	0.68	2.37
13-16	0.16	18.40	1.16	1.04	0.99	0.96	1.00	1.00	0.68	2.31

Segue il confronto fra la pressione limite ed applicata.

Caso	γ_{RV}	q'_{lim} [daN/cm ²]	A [cm ²]	R_d [daN]	E_d [daN]	Verifica
1-1	1.00	22.98	877576.41	20168079.9	508275.5	SI (20168079.9/508275.5 = 39.68 >= 1.0)
2-1	1.00	12.66	861250.81	10906446.7	330128.4	SI (10906446.7/330128.4 = 33.04 >= 1.0)
2-2	1.00	12.8	866134.21	11089021.3	336127.4	SI (11089021.3/336127.4 = 32.99 >= 1.0)
2-3	1.00	12.67	861415.94	10913183.9	330051.4	SI (10913183.9/330051.4 = 33.07 >= 1.0)
2-4	1.00	12.81	866298.39	11095778.7	336051.4	SI (11095778.7/336051.4 = 33.02 >= 1.0)
2-5	1.00	11.91	877177.76	10445495.9	330650.4	SI (10445495.9/330650.4 = 31.59 >= 1.0)
2-6	1.00	11.79	881816.49	10400414.2	336649.4	SI (10400414.2/336649.4 = 30.89 >= 1.0)
2-7	1.00	11.91	877353.95	10447507.8	330573.4	SI (10447507.8/330573.4 = 31.60 >= 1.0)
2-8	1.00	11.79	881990.87	10402333.5	336572.4	SI (10402333.5/336572.4 = 30.91 >= 1.0)
2-9	1.00	12.64	860128.39	10872220.5	330283.4	SI (10872220.5/330283.4 = 32.92 >= 1.0)
2-10	1.00	12.78	865026.5	11054893.9	336282.4	SI (11054893.9/336282.4 = 32.87 >= 1.0)
2-11	1.00	12.65	860293.25	10878932.2	330206.4	SI (10878932.2/330206.4 = 32.95 >= 1.0)
2-12	1.00	12.79	865189.93	11061617.1	336205.4	SI (11061617.1/336205.4 = 32.90 >= 1.0)
2-13	1.00	11.93	876033.62	10448890	330804.4	SI (10448890/330804.4 = 31.59 >= 1.0)
2-14	1.00	11.81	880688.27	10403952.6	336804.4	SI (10403952.6/336804.4 = 30.89 >= 1.0)
2-15	1.00	11.93	876210.02	10450917.4	330728.4	SI (10450917.4/330728.4 = 31.60 >= 1.0)
2-16	1.00	11.81	880862.38	10405876.9	336727.4	SI (10405876.9/336727.4 = 30.90 >= 1.0)
3-1	1.80	3.29	861250.81	2831633	330128.4	SI (2831633/330128.4 = 8.58 >= 1.0)
3-2	1.80	3.32	866134.21	2877028.2	336127.4	SI (2877028.2/336127.4 = 8.56 >= 1.0)
3-3	1.80	3.29	861415.94	2833211.1	330051.4	SI (2833211.1/330051.4 = 8.58 >= 1.0)
3-4	1.80	3.32	866298.39	2878611.1	336051.4	SI (2878611.1/336051.4 = 8.57 >= 1.0)
3-5	1.80	3.1	877177.76	2720943.3	330650.4	SI (2720943.3/330650.4 = 8.23 >= 1.0)
3-6	1.80	3.07	881816.49	2709893.7	336649.4	SI (2709893.7/336649.4 = 8.05 >= 1.0)
3-7	1.80	3.1	877353.95	2721358.1	330573.4	SI (2721358.1/330573.4 = 8.23 >= 1.0)
3-8	1.80	3.07	881990.87	2710287.6	336572.4	SI (2710287.6/336572.4 = 8.05 >= 1.0)
3-9	1.80	3.28	860128.39	2823186.4	330283.4	SI (2823186.4/330283.4 = 8.55 >= 1.0)
3-10	1.80	3.32	865026.5	2868610.9	336282.4	SI (2868610.9/336282.4 = 8.53 >= 1.0)
3-11	1.80	3.28	860293.25	2824758.7	330206.4	SI (2824758.7/330206.4 = 8.55 >= 1.0)
3-12	1.80	3.32	865189.93	2870185.8	336205.4	SI (2870185.8/336205.4 = 8.54 >= 1.0)
3-13	1.80	3.11	876033.62	2721809.3	330804.4	SI (2721809.3/330804.4 = 8.23 >= 1.0)
3-14	1.80	3.08	880688.27	2710794.7	336804.4	SI (2710794.7/336804.4 = 8.05 >= 1.0)
3-15	1.80	3.11	876210.02	2722227.9	330728.4	SI (2722227.9/330728.4 = 8.23 >= 1.0)
3-16	1.80	3.08	880862.38	2711189.8	336727.4	SI (2711189.8/336727.4 = 8.05 >= 1.0)
4-1	1.00	13.02	860427.75	11206517.6	323455.4	SI (11206517.6/323455.4 = 34.65 >= 1.0)
4-2	1.00	12.6	865287.65	10906382.7	323611.4	SI (10906382.7/323611.4 = 33.70 >= 1.0)
4-3	1.00	13.02	860083.24	11195828.6	323501.4	SI (11195828.6/323501.4 = 34.61 >= 1.0)
4-4	1.00	12.61	864941.69	10907288.6	323658.4	SI (10907288.6/323658.4 = 33.70 >= 1.0)
4-5	1.00	12.64	876454.33	11082522.5	343452.4	SI (11082522.5/343452.4 = 32.27 >= 1.0)
4-6	1.00	12.19	881070.61	10739622.5	343609.4	SI (10739622.5/343609.4 = 31.26 >= 1.0)
4-7	1.00	12.65	876125.29	11083518.5	343499.4	SI (11083518.5/343499.4 = 32.27 >= 1.0)
4-8	1.00	12.2	880739.34	10740662.1	343655.4	SI (10740662.1/343655.4 = 31.25 >= 1.0)
4-9	1.00	13.04	860997.87	11230318.4	323200.4	SI (11230318.4/323200.4 = 34.75 >= 1.0)
4-10	1.00	12.6	865869.28	10914185.2	323356.4	SI (10914185.2/323356.4 = 33.75 >= 1.0)
4-11	1.00	13.04	860653.08	11219602.5	323246.4	SI (11219602.5/323246.4 = 34.71 >= 1.0)
4-12	1.00	12.61	865523.03	10915096.1	323403.4	SI (10915096.1/323403.4 = 33.75 >= 1.0)

4-13	1.00	12.65	877006.84	11089760.4	343197.4	SI (11089760.4/343197.4 = 32.31 >= 1.0)
4-14	1.00	12.19	881633.38	10746314.2	343354.4	SI (10746314.2/343354.4 = 31.30 >= 1.0)
4-15	1.00	12.65	876677.54	11090761.9	343244.4	SI (11090761.9/343244.4 = 32.31 >= 1.0)
4-16	1.00	12.19	881301.85	10747359.1	343400.4	SI (10747359.1/343400.4 = 31.30 >= 1.0)
5-1	1.80	3.38	860427.75	2907080.2	323455.4	SI (2907080.2/323455.4 = 8.99 >= 1.0)
5-2	1.80	3.28	865287.65	2833896.2	323611.4	SI (2833896.2/323611.4 = 8.76 >= 1.0)
5-3	1.80	3.38	860083.24	2904444.2	323501.4	SI (2904444.2/323501.4 = 8.98 >= 1.0)
5-4	1.80	3.28	864941.69	2834128.8	323658.4	SI (2834128.8/323658.4 = 8.76 >= 1.0)
5-5	1.80	3.28	876454.33	2877001.5	343452.4	SI (2877001.5/343452.4 = 8.38 >= 1.0)
5-6	1.80	3.17	881070.61	2793109.7	343609.4	SI (2793109.7/343609.4 = 8.13 >= 1.0)
5-7	1.80	3.28	876125.29	2877255.7	343499.4	SI (2877255.7/343499.4 = 8.38 >= 1.0)
5-8	1.80	3.17	880739.34	2793374.6	343655.4	SI (2793374.6/343655.4 = 8.13 >= 1.0)
5-9	1.80	3.38	860997.87	2912657.3	323200.4	SI (2912657.3/323200.4 = 9.01 >= 1.0)
5-10	1.80	3.27	865869.28	2835527.1	323356.4	SI (2835527.1/323356.4 = 8.77 >= 1.0)
5-11	1.80	3.38	860653.08	2910015.2	323246.4	SI (2910015.2/323246.4 = 9.00 >= 1.0)
5-12	1.80	3.28	865523.03	2835761	323403.4	SI (2835761/323403.4 = 8.77 >= 1.0)
5-13	1.80	3.28	877006.84	2878505.6	343197.4	SI (2878505.6/343197.4 = 8.39 >= 1.0)
5-14	1.80	3.17	881633.38	2794490.2	343354.4	SI (2794490.2/343354.4 = 8.14 >= 1.0)
5-15	1.80	3.28	876677.54	2878761.2	343244.4	SI (2878761.2/343244.4 = 8.39 >= 1.0)
5-16	1.80	3.17	881301.85	2794756.3	343400.4	SI (2794756.3/343400.4 = 8.14 >= 1.0)
6-1	1.00	12.58	860251.24	10823014.7	329798.4	SI (10823014.7/329798.4 = 32.82 >= 1.0)
6-2	1.00	12.74	865635.91	11024113.7	336397.4	SI (11024113.7/336397.4 = 32.77 >= 1.0)
6-3	1.00	12.59	860432.74	10830369.5	329714.4	SI (10830369.5/329714.4 = 32.85 >= 1.0)
6-4	1.00	12.74	865815.66	11031482.8	336313.4	SI (11031482.8/336313.4 = 32.80 >= 1.0)
6-5	1.00	11.84	877785.03	10390461	330372.4	SI (10390461/330372.4 = 31.45 >= 1.0)
6-6	1.00	11.71	882873.62	10341659.7	336971.4	SI (10341659.7/336971.4 = 30.69 >= 1.0)
6-7	1.00	11.84	877979.9	10392656	330288.4	SI (10392656/330288.4 = 31.47 >= 1.0)
6-8	1.00	11.71	883066.26	10343743.7	336887.4	SI (10343743.7/336887.4 = 30.70 >= 1.0)
6-9	1.00	12.56	859016.68	10785555.8	329968.4	SI (10785555.8/329968.4 = 32.69 >= 1.0)
6-10	1.00	12.71	864419.12	10986770.7	336567.4	SI (10986770.7/336567.4 = 32.64 >= 1.0)
6-11	1.00	12.56	859197.86	10792879.8	329884.4	SI (10792879.8/329884.4 = 32.72 >= 1.0)
6-12	1.00	12.72	864598.56	10994109.9	336483.4	SI (10994109.9/336483.4 = 32.67 >= 1.0)
6-13	1.00	11.86	876524.76	10394226.4	330542.4	SI (10394226.4/330542.4 = 31.45 >= 1.0)
6-14	1.00	11.73	881632.09	10345585.3	337141.4	SI (10345585.3/337141.4 = 30.69 >= 1.0)
6-15	1.00	11.86	876719.31	10396427.5	330458.4	SI (10396427.5/330458.4 = 31.46 >= 1.0)
6-16	1.00	11.73	881824.39	10347675	337057.4	SI (10347675/337057.4 = 30.70 >= 1.0)
7-1	1.80	3.27	860251.24	2810785.5	329798.4	SI (2810785.5/329798.4 = 8.52 >= 1.0)
7-2	1.80	3.3	865635.91	2860799.6	336397.4	SI (2860799.6/336397.4 = 8.50 >= 1.0)
7-3	1.80	3.27	860432.74	2812508.4	329714.4	SI (2812508.4/329714.4 = 8.53 >= 1.0)
7-4	1.80	3.31	865815.66	2862525.6	336313.4	SI (2862525.6/336313.4 = 8.51 >= 1.0)
7-5	1.80	3.08	877785.03	2707452.8	330372.4	SI (2707452.8/330372.4 = 8.20 >= 1.0)
7-6	1.80	3.05	882873.62	2695487.5	336971.4	SI (2695487.5/336971.4 = 8.00 >= 1.0)
7-7	1.80	3.08	877979.9	2707905.1	330288.4	SI (2707905.1/330288.4 = 8.20 >= 1.0)
7-8	1.80	3.05	883066.26	2695914.7	336887.4	SI (2695914.7/336887.4 = 8.00 >= 1.0)
7-9	1.80	3.26	859016.68	2801538.9	329968.4	SI (2801538.9/329968.4 = 8.49 >= 1.0)
7-10	1.80	3.3	864419.12	2851587.5	336567.4	SI (2851587.5/336567.4 = 8.47 >= 1.0)
7-11	1.80	3.26	859197.86	2803254.7	329884.4	SI (2803254.7/329884.4 = 8.50 >= 1.0)
7-12	1.80	3.3	864598.56	2853306.6	336483.4	SI (2853306.6/336483.4 = 8.48 >= 1.0)
7-13	1.80	3.09	876524.76	2708413.2	330542.4	SI (2708413.2/330542.4 = 8.19 >= 1.0)
7-14	1.80	3.06	881632.09	2696486.6	337141.4	SI (2696486.6/337141.4 = 8.00 >= 1.0)
7-15	1.80	3.09	876719.31	2708867	330458.4	SI (2708867/330458.4 = 8.20 >= 1.0)
7-16	1.80	3.06	881824.39	2696915.3	337057.4	SI (2696915.3/337057.4 = 8.00 >= 1.0)
8-1	1.00	12.98	859322.81	11151332.1	322457.4	SI (11151332.1/322457.4 = 34.58 >= 1.0)
8-2	1.00	12.6	864683.07	10896567.8	322630.4	SI (10896567.8/322630.4 = 33.77 >= 1.0)
8-3	1.00	12.97	858943.87	11139602.4	322509.4	SI (11139602.4/322509.4 = 34.54 >= 1.0)
8-4	1.00	12.61	864301.18	10897551.5	322681.4	SI (10897551.5/322681.4 = 33.77 >= 1.0)
8-5	1.00	12.65	876969.12	11090381.1	344455.4	SI (11090381.1/344455.4 = 32.20 >= 1.0)
8-6	1.00	12.15	882033.51	10714014.8	344627.4	SI (10714014.8/344627.4 = 31.09 >= 1.0)
8-7	1.00	12.65	876607.74	11091474.7	344506.4	SI (11091474.7/344506.4 = 32.20 >= 1.0)
8-8	1.00	12.15	881670	10715171.6	344678.4	SI (10715171.6/344678.4 = 31.09 >= 1.0)
8-9	1.00	13	859950.57	11177448	322177.4	SI (11177448/322177.4 = 34.69 >= 1.0)
8-10	1.00	12.6	865324.3	10905177.6	322349.4	SI (10905177.6/322349.4 = 33.83 >= 1.0)
8-11	1.00	12.99	859570.75	11165675	322228.4	SI (11165675/322228.4 = 34.65 >= 1.0)
8-12	1.00	12.61	864942.06	10906167.5	322400.4	SI (10906167.5/322400.4 = 33.83 >= 1.0)
8-13	1.00	12.65	877575.15	11098309	344174.4	SI (11098309/344174.4 = 32.25 >= 1.0)
8-14	1.00	12.15	882651.89	10721285.3	344346.4	SI (10721285.3/344346.4 = 31.14 >= 1.0)
8-15	1.00	12.65	877213.47	11099408.6	344225.4	SI (11099408.6/344225.4 = 32.24 >= 1.0)
8-16	1.00	12.15	882288.52	10722457.6	344398.4	SI (10722457.6/344398.4 = 31.13 >= 1.0)
9-1	1.80	3.37	859322.81	2893351.3	322457.4	SI (2893351.3/322457.4 = 8.97 >= 1.0)

9-2	1.80	3.27	864683.07	2831506.6	322630.4	SI (2831506.6/322630.4 = 8.78 >= 1.0)
9-3	1.80	3.37	858943.87	2890458.3	322509.4	SI (2890458.3/322509.4 = 8.96 >= 1.0)
9-4	1.80	3.28	864301.18	2831759.4	322681.4	SI (2831759.4/322681.4 = 8.78 >= 1.0)
9-5	1.80	3.28	876969.12	2878936.5	344455.4	SI (2878936.5/344455.4 = 8.36 >= 1.0)
9-6	1.80	3.16	882033.51	2786852.1	344627.4	SI (2786852.1/344627.4 = 8.09 >= 1.0)
9-7	1.80	3.28	876607.74	2879215.6	344506.4	SI (2879215.6/344506.4 = 8.36 >= 1.0)
9-8	1.80	3.16	881670	2787146.6	344678.4	SI (2787146.6/344678.4 = 8.09 >= 1.0)
9-9	1.80	3.37	859950.57	2899471.1	322177.4	SI (2899471.1/322177.4 = 9.00 >= 1.0)
9-10	1.80	3.27	865324.3	2833306.5	322349.4	SI (2833306.5/322349.4 = 8.79 >= 1.0)
9-11	1.80	3.37	859570.75	2896567.9	322228.4	SI (2896567.9/322228.4 = 8.99 >= 1.0)
9-12	1.80	3.28	864942.06	2833560.8	322400.4	SI (2833560.8/322400.4 = 8.79 >= 1.0)
9-13	1.80	3.28	877575.15	2880583.3	344174.4	SI (2880583.3/344174.4 = 8.37 >= 1.0)
9-14	1.80	3.16	882651.89	2788350.1	344346.4	SI (2788350.1/344346.4 = 8.10 >= 1.0)
9-15	1.80	3.28	877213.47	2880864	344225.4	SI (2880864/344225.4 = 8.37 >= 1.0)
9-16	1.80	3.16	882288.52	2788648.5	344398.4	SI (2788648.5/344398.4 = 8.10 >= 1.0)
10-1	1.80	6.28	879161.86	5518519.3	408390.4	SI (5518519.3/408390.4 = 13.51 >= 1.0)
12-1	2.30	5.65	862696.66	4873691.6	330606.4	SI (4873691.6/330606.4 = 14.74 >= 1.0)
12-2	2.30	5.7	866857.91	4941811.9	335736.4	SI (4941811.9/335736.4 = 14.72 >= 1.0)
12-3	2.30	5.65	862838.86	4876243.7	330541.4	SI (4876243.7/330541.4 = 14.75 >= 1.0)
12-4	2.30	5.7	866998.52	4944362.6	335670.4	SI (4944362.6/335670.4 = 14.73 >= 1.0)
12-5	2.30	5.31	876298.53	4656531.7	331053.4	SI (4656531.7/331053.4 = 14.07 >= 1.0)
12-6	2.30	5.27	880280.44	4639748.7	336182.4	SI (4639748.7/336182.4 = 13.80 >= 1.0)
12-7	2.30	5.31	876448.29	4657305.6	330987.4	SI (4657305.6/330987.4 = 14.07 >= 1.0)
12-8	2.30	5.27	880428.89	4640492.2	336116.4	SI (4640492.2/336116.4 = 13.81 >= 1.0)
12-9	2.30	5.64	861736.82	4860786.5	330739.4	SI (4860786.5/330739.4 = 14.70 >= 1.0)
12-10	2.30	5.69	865908.36	4928937	335868.4	SI (4928937/335868.4 = 14.68 >= 1.0)
12-11	2.30	5.64	861878.31	4863326.1	330673.4	SI (4863326.1/330673.4 = 14.71 >= 1.0)
12-12	2.30	5.69	866048.78	4931479.7	335802.4	SI (4931479.7/335802.4 = 14.69 >= 1.0)
12-13	2.30	5.32	875322.72	4657693.6	331185.4	SI (4657693.6/331185.4 = 14.06 >= 1.0)
12-14	2.30	5.28	879315.88	4640954.4	336314.4	SI (4640954.4/336314.4 = 13.80 >= 1.0)
12-15	2.30	5.32	875472.27	4658468.7	331119.4	SI (4658468.7/331119.4 = 14.07 >= 1.0)
12-16	2.30	5.28	879464.6	4641704.2	336249.4	SI (4641704.2/336249.4 = 13.80 >= 1.0)
13-1	2.30	5.75	862018.51	4959691.6	324901.4	SI (4959691.6/324901.4 = 15.27 >= 1.0)
13-2	2.30	5.57	866158.79	4827363.3	325035.4	SI (4827363.3/325035.4 = 14.85 >= 1.0)
13-3	2.30	5.76	861724.6	4959979.8	324940.4	SI (4959979.8/324940.4 = 15.26 >= 1.0)
13-4	2.30	5.58	865863.45	4827670.4	325074.4	SI (4827670.4/325074.4 = 14.85 >= 1.0)
13-5	2.30	5.59	875703.36	4893686.9	341999.4	SI (4893686.9/341999.4 = 14.31 >= 1.0)
13-6	2.30	5.42	879664.7	4766166.2	342132.4	SI (4766166.2/342132.4 = 13.93 >= 1.0)
13-7	2.30	5.59	875420.45	4894024.2	342038.4	SI (4894024.2/342038.4 = 14.31 >= 1.0)
13-8	2.30	5.42	879380.95	4766525.1	342172.4	SI (4766525.1/342172.4 = 13.93 >= 1.0)
13-9	2.30	5.75	862505.57	4962814.9	324683.4	SI (4962814.9/324683.4 = 15.29 >= 1.0)
13-10	2.30	5.57	866654.18	4830293.3	324817.4	SI (4830293.3/324817.4 = 14.87 >= 1.0)
13-11	2.30	5.76	862211.98	4963108.8	324723.4	SI (4963108.8/324723.4 = 15.28 >= 1.0)
13-12	2.30	5.58	866358.64	4830602.3	324856.4	SI (4830602.3/324856.4 = 14.87 >= 1.0)
13-13	2.30	5.59	876177.48	4896435.6	341781.4	SI (4896435.6/341781.4 = 14.33 >= 1.0)
13-14	2.30	5.42	880146.82	4768745.1	341915.4	SI (4768745.1/341915.4 = 13.95 >= 1.0)
13-15	2.30	5.59	875894.39	4896774.7	341820.4	SI (4896774.7/341820.4 = 14.33 >= 1.0)
13-16	2.30	5.42	879862.43	4769100.9	341954.4	SI (4769100.9/341954.4 = 13.95 >= 1.0)

Scorrimento.

Le seguenti tabelle elencano il valore dell'angolo di resistenza al taglio, della coesione efficace, dell'attrito e dell'aderenza fondazione-terreno, e della resistenza disponibile sul piano di posa e sulle pareti laterali.

Caso	γ_{g}	γ_{c}	ϕ [°]	c' [daN/cm ²]	δ [°]	a [daN/cm ²]	γ_{Rh}	γ_{Rl}	R_{h} [daN]	R_{l} [daN]
1-1	1.00	1.00	30	0.1	22.5	0	1.00	1.00	210534.61	22965.31
2-1	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136743.66	21403.57
2-2	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139228.53	25120.01
2-3	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136711.77	21518.81
2-4	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139197.05	25271.78
2-5	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136959.88	17381.63
2-6	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139444.75	17578.27
2-7	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136927.99	17411.29
2-8	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139412.85	17604.22
2-9	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136807.86	20847.3
2-10	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139292.73	24284.37
2-11	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136775.97	20957.2
2-12	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139260.84	24431.93
2-13	1.00	1.00	30	0.1	22.5	0	1.00	1.00	137023.67	17296.11

2-14	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139508.95	17505.86
2-15	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136992.19	17326.62
2-16	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139477.06	17532.47
3-1	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	100962.31	16414.52
3-2	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102796.96	19264.62
3-3	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	100938.76	16502.9
3-4	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102773.72	19381.01
3-5	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101121.95	13330.14
3-6	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102956.61	13480.94
3-7	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101098.4	13352.88
3-8	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102933.06	13500.83
3-9	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101009.71	15987.93
3-10	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102844.37	18623.78
3-11	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	100986.16	16072.21
3-12	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102820.82	18736.94
3-13	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101169.05	13264.55
3-14	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	103004.01	13425.41
3-15	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101145.8	13287.95
3-16	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102980.46	13445.81
4-1	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133979.61	30770.47
4-2	1.00	1.00	30	0.1	22.5	0	1.00	1.00	134044.23	19314.44
4-3	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133998.67	30904.19
4-4	1.00	1.00	30	0.1	22.5	0	1.00	1.00	134063.7	19280.2
4-5	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142262.64	23109.08
4-6	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142327.67	19246.37
4-7	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142282.11	23133.64
4-8	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142346.73	19229.21
4-9	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133873.99	30181.34
4-10	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133938.61	19514.93
4-11	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133893.04	30622.47
4-12	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133958.07	19484.67
4-13	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142157.02	23203.35
4-14	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142222.05	19346.59
4-15	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142176.49	23228.62
4-16	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142241.1	19330.41
5-1	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98921.52	23597.78
5-2	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98969.23	14812.39
5-3	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98935.59	23700.35
5-4	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98983.6	14786.13
5-5	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105037.15	17722.46
5-6	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105085.17	14760.19
5-7	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105051.52	17741.3
5-8	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105099.23	14747.03
5-9	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98843.53	23145.95
5-10	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98891.24	14966.15
5-11	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98857.6	23484.26
5-12	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98905.62	14942.94
5-13	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	104959.16	17794.76
5-14	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105007.18	14837.05
5-15	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	104973.54	17814.14
5-16	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105021.25	14824.64
6-1	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136606.97	20437.61
6-2	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139340.37	23660.85
6-3	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136572.18	20543.39
6-4	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139305.57	23804.13
6-5	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136844.73	17228.3
6-6	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139578.12	17448.8
6-7	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136809.93	17259.52
6-8	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139543.33	17475.95
6-9	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136677.39	19945.67
6-10	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139410.78	22912.48
6-11	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136642.59	20046.49
6-12	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139375.99	23049.84
6-13	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136915.15	17136.18
6-14	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139648.54	17371.44
6-15	1.00	1.00	30	0.1	22.5	0	1.00	1.00	136880.35	17168.33
6-16	1.00	1.00	30	0.1	22.5	0	1.00	1.00	139613.75	17399.31
7-1	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	100861.38	15673.74
7-2	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102879.54	18145.61

7-3	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	100835.69	15754.86
7-4	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102853.85	18255.49
7-5	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101036.93	13212.55
7-6	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	103055.08	13381.65
7-7	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101011.24	13236.49
7-8	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	103029.39	13402.47
7-9	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	100913.37	15296.47
7-10	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102931.53	17571.7
7-11	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	100887.68	15373.79
7-12	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	102905.84	17677.04
7-13	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101088.92	13141.9
7-14	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	103107.07	13322.32
7-15	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	101063.23	13166.56
7-16	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	103081.38	13343.69
8-1	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133566.23	29203.21
8-2	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133637.89	19098.88
8-3	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133587.77	28590.15
8-4	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133659.01	19057.19
8-5	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142678.1	23273.12
8-6	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142749.34	19142.85
8-7	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142699.22	23302.63
8-8	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142770.47	19124
8-9	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133450.25	30098.04
8-10	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133521.49	19325.47
8-11	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133471.37	29608.08
8-12	1.00	1.00	30	0.1	22.5	0	1.00	1.00	133542.62	19288.82
8-13	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142561.7	23371.61
8-14	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142632.95	19249.18
8-15	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142582.83	23401.84
8-16	1.00	1.00	30	0.1	22.5	0	1.00	1.00	142654.49	19231.43
9-1	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98616.3	22395.95
9-2	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98669.21	14647.08
9-3	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98632.21	21925.81
9-4	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98684.81	14615.11
9-5	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105343.9	17848.26
9-6	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105396.5	14680.8
9-7	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105359.49	17870.89
9-8	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105412.09	14666.35
9-9	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98530.67	23082.17
9-10	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98583.28	14820.85
9-11	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98546.27	22706.44
9-12	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	98598.87	14792.75
9-13	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105257.96	17923.79
9-14	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105310.56	14762.34
9-15	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105273.56	17946.98
9-16	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	105326.46	14748.73
10-1	1.25	1.25	24.8	0.08	18.6	0	1.10	1.00	124896.97	17907.16
12-1	-	-	30	0.1	22.5	0	1.10	1.30	124492.41	18116.84
12-2	-	-	30	0.1	22.5	0	1.10	1.30	126424.15	21635.77
12-3	-	-	30	0.1	22.5	0	1.10	1.30	124467.94	18219.45
12-4	-	-	30	0.1	22.5	0	1.10	1.30	126399.3	21747.33
12-5	-	-	30	0.1	22.5	0	1.10	1.30	124660.73	13569.02
12-6	-	-	30	0.1	22.5	0	1.10	1.30	126592.1	13691.22
12-7	-	-	30	0.1	22.5	0	1.10	1.30	124635.88	13589.86
12-8	-	-	30	0.1	22.5	0	1.10	1.30	126567.25	13709.64
12-9	-	-	30	0.1	22.5	0	1.10	1.30	124542.5	17581.87
12-10	-	-	30	0.1	22.5	0	1.10	1.30	126473.86	20932.87
12-11	-	-	30	0.1	22.5	0	1.10	1.30	124517.64	17680.45
12-12	-	-	30	0.1	22.5	0	1.10	1.30	126449.01	21049.96
12-13	-	-	30	0.1	22.5	0	1.10	1.30	124710.44	13511.35
12-14	-	-	30	0.1	22.5	0	1.10	1.30	126641.81	13641.71
12-15	-	-	30	0.1	22.5	0	1.10	1.30	124685.59	13532.75
12-16	-	-	30	0.1	22.5	0	1.10	1.30	126617.33	13660.57
13-1	-	-	30	0.1	22.5	0	1.10	1.30	122344.15	23649.46
13-2	-	-	30	0.1	22.5	0	1.10	1.30	122394.61	15095.48
13-3	-	-	30	0.1	22.5	0	1.10	1.30	122358.84	23479.77
13-4	-	-	30	0.1	22.5	0	1.10	1.30	122409.3	15076.38
13-5	-	-	30	0.1	22.5	0	1.10	1.30	128782.54	17590.78
13-6	-	-	30	0.1	22.5	0	1.10	1.30	128832.62	14935.35

13-7	-	-	30	0.1	22.5	0	1.10	1.30	128797.22	17604.69
13-8	-	-	30	0.1	22.5	0	1.10	1.30	128847.68	14924.13
13-9	-	-	30	0.1	22.5	0	1.10	1.30	122262.06	23746.84
13-10	-	-	30	0.1	22.5	0	1.10	1.30	122312.52	15222.09
13-11	-	-	30	0.1	22.5	0	1.10	1.30	122277.12	23663.44
13-12	-	-	30	0.1	22.5	0	1.10	1.30	122327.21	15205.09
13-13	-	-	30	0.1	22.5	0	1.10	1.30	128700.45	17657.38
13-14	-	-	30	0.1	22.5	0	1.10	1.30	128750.91	15004.95
13-15	-	-	30	0.1	22.5	0	1.10	1.30	128715.13	17671.83
13-16	-	-	30	0.1	22.5	0	1.10	1.30	128765.59	14994.36

Segue il confronto fra la resistenza a scorrimento e l'azione applicata.

Caso	R_g [daN]	E_g [daN]	Verifica
1-1	233499.9	12818.9	SI (233499.9/12818.9 = 18.22 >= 1.0)
2-1	158147.2	8081.3	SI (158147.2/8081.3 = 19.57 >= 1.0)
2-2	164348.5	5750.7	SI (164348.5/5750.7 = 28.58 >= 1.0)
2-3	158230.6	8040.3	SI (158230.6/8040.3 = 19.68 >= 1.0)
2-4	164468.8	5718	SI (164468.8/5718 = 28.76 >= 1.0)
2-5	154341.5	22115.3	SI (154341.5/22115.3 = 6.98 >= 1.0)
2-6	157023	24754.7	SI (157023/24754.7 = 6.34 >= 1.0)
2-7	154339.3	22167.9	SI (154339.3/22167.9 = 6.96 >= 1.0)
2-8	157017.1	24807.6	SI (157017.1/24807.6 = 6.33 >= 1.0)
2-9	157655.2	8460.6	SI (157655.2/8460.6 = 18.63 >= 1.0)
2-10	163577.1	6089	SI (163577.1/6089 = 26.86 >= 1.0)
2-11	157733.2	8418.5	SI (157733.2/8418.5 = 18.74 >= 1.0)
2-12	163692.8	6054.2	SI (163692.8/6054.2 = 27.04 >= 1.0)
2-13	154319.8	21691	SI (154319.8/21691 = 7.11 >= 1.0)
2-14	157014.8	24329.8	SI (157014.8/24329.8 = 6.45 >= 1.0)
2-15	154318.8	21743.5	SI (154318.8/21743.5 = 7.10 >= 1.0)
2-16	157009.5	24382.6	SI (157009.5/24382.6 = 6.44 >= 1.0)
3-1	117376.8	8081.3	SI (117376.8/8081.3 = 14.52 >= 1.0)
3-2	122061.6	5750.7	SI (122061.6/5750.7 = 21.23 >= 1.0)
3-3	117441.7	8040.3	SI (117441.7/8040.3 = 14.61 >= 1.0)
3-4	122154.7	5718	SI (122154.7/5718 = 21.36 >= 1.0)
3-5	114452.1	22115.3	SI (114452.1/22115.3 = 5.18 >= 1.0)
3-6	116437.5	24754.7	SI (116437.5/24754.7 = 4.70 >= 1.0)
3-7	114451.3	22167.9	SI (114451.3/22167.9 = 5.16 >= 1.0)
3-8	116433.9	24807.6	SI (116433.9/24807.6 = 4.69 >= 1.0)
3-9	116997.6	8460.6	SI (116997.6/8460.6 = 13.83 >= 1.0)
3-10	121468.1	6089	SI (121468.1/6089 = 19.95 >= 1.0)
3-11	117058.4	8418.5	SI (117058.4/8418.5 = 13.90 >= 1.0)
3-12	121557.8	6054.2	SI (121557.8/6054.2 = 20.08 >= 1.0)
3-13	114433.6	21691	SI (114433.6/21691 = 5.28 >= 1.0)
3-14	116429.4	24329.8	SI (116429.4/24329.8 = 4.79 >= 1.0)
3-15	114433.8	21743.5	SI (114433.8/21743.5 = 5.26 >= 1.0)
3-16	116426.3	24382.6	SI (116426.3/24382.6 = 4.77 >= 1.0)
4-1	164750.1	1541.9	SI (164750.1/1541.9 = 106.85 >= 1.0)
4-2	153358.7	8442.2	SI (153358.7/8442.2 = 18.17 >= 1.0)
4-3	164902.9	1568.4	SI (164902.9/1568.4 = 105.14 >= 1.0)
4-4	153343.9	8313.6	SI (153343.9/8313.6 = 18.44 >= 1.0)
4-5	165371.7	8549.7	SI (165371.7/8549.7 = 19.34 >= 1.0)
4-6	161574	17260.9	SI (161574/17260.9 = 9.36 >= 1.0)
4-7	165415.8	8420.9	SI (165415.8/8420.9 = 19.64 >= 1.0)
4-8	161575.9	17132.3	SI (161575.9/17132.3 = 9.43 >= 1.0)
4-9	164055.3	1577.4	SI (164055.3/1577.4 = 104.01 >= 1.0)
4-10	153453.5	8624	SI (153453.5/8624 = 17.79 >= 1.0)
4-11	164515.5	1588	SI (164515.5/1588 = 103.60 >= 1.0)
4-12	153442.7	8495.3	SI (153442.7/8495.3 = 18.06 >= 1.0)
4-13	165360.4	8740.8	SI (165360.4/8740.8 = 18.92 >= 1.0)
4-14	161568.6	17442.3	SI (161568.6/17442.3 = 9.26 >= 1.0)
4-15	165405.1	8612	SI (165405.1/8612 = 19.21 >= 1.0)
4-16	161571.5	17313.7	SI (161571.5/17313.7 = 9.33 >= 1.0)
5-1	122519.3	1541.9	SI (122519.3/1541.9 = 79.46 >= 1.0)
5-2	113781.6	8442.2	SI (113781.6/8442.2 = 13.48 >= 1.0)
5-3	122635.9	1568.4	SI (122635.9/1568.4 = 78.19 >= 1.0)
5-4	113769.7	8313.6	SI (113769.7/8313.6 = 13.68 >= 1.0)
5-5	122759.6	8549.7	SI (122759.6/8549.7 = 14.36 >= 1.0)
5-6	119845.4	17260.9	SI (119845.4/17260.9 = 6.94 >= 1.0)
5-7	122792.8	8420.9	SI (122792.8/8420.9 = 14.58 >= 1.0)

5-8	119846.3	17132.3	SI (119846.3/17132.3 = 7.00 >= 1.0)
5-9	121989.5	1577.4	SI (121989.5/1577.4 = 77.34 >= 1.0)
5-10	113857.4	8624	SI (113857.4/8624 = 13.20 >= 1.0)
5-11	122341.9	1588	SI (122341.9/1588 = 77.04 >= 1.0)
5-12	113848.6	8495.3	SI (113848.6/8495.3 = 13.40 >= 1.0)
5-13	122753.9	8740.8	SI (122753.9/8740.8 = 14.04 >= 1.0)
5-14	119844.2	17442.3	SI (119844.2/17442.3 = 6.87 >= 1.0)
5-15	122787.7	8612	SI (122787.7/8612 = 14.26 >= 1.0)
5-16	119845.9	17313.7	SI (119845.9/17313.7 = 6.92 >= 1.0)
6-1	157044.6	9642.4	SI (157044.6/9642.4 = 16.29 >= 1.0)
6-2	163001.2	7003.3	SI (163001.2/7003.3 = 23.27 >= 1.0)
6-3	157115.6	9595.3	SI (157115.6/9595.3 = 16.37 >= 1.0)
6-4	163109.7	6963.4	SI (163109.7/6963.4 = 23.42 >= 1.0)
6-5	154073	23489.5	SI (154073/23489.5 = 6.56 >= 1.0)
6-6	157026.9	26391.8	SI (157026.9/26391.8 = 5.95 >= 1.0)
6-7	154069.5	23547.2	SI (154069.5/23547.2 = 6.54 >= 1.0)
6-8	157019.3	26449.7	SI (157019.3/26449.7 = 5.94 >= 1.0)
6-9	156623.1	10068.4	SI (156623.1/10068.4 = 15.56 >= 1.0)
6-10	162323.3	7395.8	SI (162323.3/7395.8 = 21.95 >= 1.0)
6-11	156689.1	10020.4	SI (156689.1/10020.4 = 15.64 >= 1.0)
6-12	162425.8	7354.1	SI (162425.8/7354.1 = 22.09 >= 1.0)
6-13	154051.3	23023.3	SI (154051.3/23023.3 = 6.69 >= 1.0)
6-14	157020	25924.8	SI (157020/25924.8 = 6.06 >= 1.0)
6-15	154048.7	23080.9	SI (154048.7/23080.9 = 6.67 >= 1.0)
6-16	157013.1	25982.7	SI (157013.1/25982.7 = 6.04 >= 1.0)
7-1	116535.1	9642.4	SI (116535.1/9642.4 = 12.09 >= 1.0)
7-2	121025.1	7003.3	SI (121025.1/7003.3 = 17.28 >= 1.0)
7-3	116590.6	9595.3	SI (116590.6/9595.3 = 12.15 >= 1.0)
7-4	121109.3	6963.4	SI (121109.3/6963.4 = 17.39 >= 1.0)
7-5	114249.5	23489.5	SI (114249.5/23489.5 = 4.86 >= 1.0)
7-6	116436.7	26391.8	SI (116436.7/26391.8 = 4.41 >= 1.0)
7-7	114247.7	23547.2	SI (114247.7/23547.2 = 4.85 >= 1.0)
7-8	116431.9	26449.7	SI (116431.9/26449.7 = 4.40 >= 1.0)
7-9	116209.8	10068.4	SI (116209.8/10068.4 = 11.54 >= 1.0)
7-10	120503.2	7395.8	SI (120503.2/7395.8 = 16.29 >= 1.0)
7-11	116261.5	10020.4	SI (116261.5/10020.4 = 11.60 >= 1.0)
7-12	120582.9	7354.1	SI (120582.9/7354.1 = 16.40 >= 1.0)
7-13	114230.8	23023.3	SI (114230.8/23023.3 = 4.96 >= 1.0)
7-14	116429.4	25924.8	SI (116429.4/25924.8 = 4.49 >= 1.0)
7-15	114229.8	23080.9	SI (114229.8/23080.9 = 4.95 >= 1.0)
7-16	116425.1	25982.7	SI (116425.1/25982.7 = 4.48 >= 1.0)
8-1	162769.4	2020.1	SI (162769.4/2020.1 = 80.58 >= 1.0)
8-2	152736.8	8440.7	SI (152736.8/8440.7 = 18.10 >= 1.0)
8-3	162177.9	2102.8	SI (162177.9/2102.8 = 77.13 >= 1.0)
8-4	152716.2	8299.3	SI (152716.2/8299.3 = 18.40 >= 1.0)
8-5	165951.2	8558.2	SI (165951.2/8558.2 = 19.39 >= 1.0)
8-6	161892.2	18141.3	SI (161892.2/18141.3 = 8.92 >= 1.0)
8-7	166001.8	8416.7	SI (166001.8/8416.7 = 19.72 >= 1.0)
8-8	161894.5	17999.9	SI (161894.5/17999.9 = 8.99 >= 1.0)
8-9	163548.3	1965.9	SI (163548.3/1965.9 = 83.19 >= 1.0)
8-10	152847	8640	SI (152847/8640 = 17.69 >= 1.0)
8-11	163079.5	2036.4	SI (163079.5/2036.4 = 80.08 >= 1.0)
8-12	152831.4	8498.5	SI (152831.4/8498.5 = 17.98 >= 1.0)
8-13	165933.3	8768.8	SI (165933.3/8768.8 = 18.92 >= 1.0)
8-14	161882.1	18340.5	SI (161882.1/18340.5 = 8.83 >= 1.0)
8-15	165984.7	8627.3	SI (165984.7/8627.3 = 19.24 >= 1.0)
8-16	161885.9	18199.1	SI (161885.9/18199.1 = 8.90 >= 1.0)
9-1	121012.3	2020.1	SI (121012.3/2020.1 = 59.90 >= 1.0)
9-2	113316.3	8440.7	SI (113316.3/8440.7 = 13.43 >= 1.0)
9-3	120558	2102.8	SI (120558/2102.8 = 57.33 >= 1.0)
9-4	113299.9	8299.3	SI (113299.9/8299.3 = 13.65 >= 1.0)
9-5	123192.2	8558.2	SI (123192.2/8558.2 = 14.39 >= 1.0)
9-6	120077.3	18141.3	SI (120077.3/18141.3 = 6.62 >= 1.0)
9-7	123230.4	8416.7	SI (123230.4/8416.7 = 14.64 >= 1.0)
9-8	120078.4	17999.9	SI (120078.4/17999.9 = 6.67 >= 1.0)
9-9	121612.8	1965.9	SI (121612.8/1965.9 = 61.86 >= 1.0)
9-10	113404.1	8640	SI (113404.1/8640 = 13.13 >= 1.0)
9-11	121252.7	2036.4	SI (121252.7/2036.4 = 59.54 >= 1.0)
9-12	113391.6	8498.5	SI (113391.6/8498.5 = 13.34 >= 1.0)

9-13	123181.8	8768.8	SI (123181.8/8768.8 = 14.05 >= 1.0)
9-14	120072.9	18340.5	SI (120072.9/18340.5 = 6.55 >= 1.0)
9-15	123220.5	8627.3	SI (123220.5/8627.3 = 14.28 >= 1.0)
9-16	120075.2	18199.1	SI (120075.2/18199.1 = 6.60 >= 1.0)
10-1	142804.1	10234.1	SI (142804.1/10234.1 = 13.95 >= 1.0)
12-1	142609.3	5860.5	SI (142609.3/5860.5 = 24.33 >= 1.0)
12-2	148059.9	4040.6	SI (148059.9/4040.6 = 36.64 >= 1.0)
12-3	142687.4	5829.2	SI (142687.4/5829.2 = 24.48 >= 1.0)
12-4	148146.6	4021.3	SI (148146.6/4021.3 = 36.84 >= 1.0)
12-5	138229.8	20124.3	SI (138229.8/20124.3 = 6.87 >= 1.0)
12-6	140283.3	22382.4	SI (140283.3/22382.4 = 6.27 >= 1.0)
12-7	138225.7	20169.5	SI (138225.7/20169.5 = 6.85 >= 1.0)
12-8	140276.9	22427.7	SI (140276.9/22427.7 = 6.25 >= 1.0)
12-9	142124.4	6166.4	SI (142124.4/6166.4 = 23.05 >= 1.0)
12-10	147406.7	4283.4	SI (147406.7/4283.4 = 34.41 >= 1.0)
12-11	142198.1	6133.8	SI (142198.1/6133.8 = 23.18 >= 1.0)
12-12	147499	4261.1	SI (147499/4261.1 = 34.62 >= 1.0)
12-13	138221.8	19760.9	SI (138221.8/19760.9 = 6.99 >= 1.0)
12-14	140283.5	22018.6	SI (140283.5/22018.6 = 6.37 >= 1.0)
12-15	138218.3	19806	SI (138218.3/19806 = 6.98 >= 1.0)
12-16	140277.9	22063.9	SI (140277.9/22063.9 = 6.36 >= 1.0)
13-1	145993.6	1646.7	SI (145993.6/1646.7 = 88.66 >= 1.0)
13-2	137490.1	8445.7	SI (137490.1/8445.7 = 16.28 >= 1.0)
13-3	145838.6	1581	SI (145838.6/1581 = 92.24 >= 1.0)
13-4	137485.7	8335.6	SI (137485.7/8335.6 = 16.49 >= 1.0)
13-5	146373.3	8538.2	SI (146373.3/8538.2 = 17.14 >= 1.0)
13-6	143768	15985	SI (143768/15985 = 8.99 >= 1.0)
13-7	146401.9	8428	SI (146401.9/8428 = 17.37 >= 1.0)
13-8	143771.8	15875	SI (143771.8/15875 = 9.06 >= 1.0)
13-9	146008.9	1785	SI (146008.9/1785 = 81.80 >= 1.0)
13-10	137534.6	8601.8	SI (137534.6/8601.8 = 15.99 >= 1.0)
13-11	145940.6	1714.4	SI (145940.6/1714.4 = 85.13 >= 1.0)
13-12	137532.3	8491.6	SI (137532.3/8491.6 = 16.20 >= 1.0)
13-13	146357.8	8701.2	SI (146357.8/8701.2 = 16.82 >= 1.0)
13-14	143755.9	16140.5	SI (143755.9/16140.5 = 8.91 >= 1.0)
13-15	146387	8591	SI (146387/8591 = 17.04 >= 1.0)
13-16	143759.9	16030.5	SI (143759.9/16030.5 = 8.97 >= 1.0)

7. CONCLUSIONI

Dai calcoli riportati in precedenza, si evince che le strutture di fondazione previste nel progetto di “Permesso di costruire convenzionato ai sensi dell'art.32 L.R. 29/2016 e s.m.i. per la realizzazione di n.3 edifici residenziali in aree comprese tra strada vicinale Colle Micheri e strada vicinale Cuni” di proprietà di La Quiete s.a.s., Rossi Manuela e Rossi Paolo sono verificate in accordo alla Normativa Vigente.

Carcare, 14-12-2018

