



COMUNE DI TORNIMPARTE PROVINCIA DELL'AQUILA (AQ)



"Interventi di messa in sicurezza del territorio a rischio di dissesto idrogeologico del bacino del Raio in località Palombaia"

CUP: B84D24000030001 - CIG: B351F0668C

PROGETTO DI FATTIBILITA' TECNICO-ECONOMICA

art. 41 c.6 D.Lgs 36/2023



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Elaborato

Relazione geotecnica

REVISIONE	DATA	DESCRIZIONE	REDATTO	VERIFICATO	APPROVATO
00	17/03/2026	PRIMA EMISSIONE	C.C. - F.R.	C.C. - F.R.	C.C.
ARCHIVIO	05-25		SCALA	DATA	ELAB. N°
				17/03/2026	PPG 02



RELAZIONE GEOTECNICA

Sono illustrati con la presente i risultati dei calcoli che riguardano il progetto delle armature, la verifica delle tensioni di lavoro dei materiali e del terreno.

• **NORMATIVA DI RIFERIMENTO**

I calcoli sono condotti nel pieno rispetto della normativa vigente e, in particolare, la normativa cui viene fatto riferimento nelle fasi di calcolo, verifica e progettazione è costituita dalle *Norme Tecniche per le Costruzioni*, emanate con il D.M. 17/01/2018 pubblicato nel suppl. 8 G.U. 42 del 20/02/2018, nonché la Circolare del Ministero Infrastrutture e Trasporti del 21 Gennaio 2019, n. 7 “*Istruzioni per l'applicazione delle nuove norme tecniche per le costruzioni*”.

Per il calcolo delle strutture in oggetto si adotteranno i criteri della Geotecnica e della Scienza delle Costruzioni.

• **CAPACITÀ PORTANTE DI FONDAZIONI SUPERFICIALI**

La verifica della capacità portante consiste nel confronto tra la pressione verticale di esercizio in fondazione e la pressione limite per il terreno, valutata secondo *Brinch-Hansen*:

$$q_{lim} = q N_q Y_q i_q d_q b_q g_q s_q + c N_c Y_c i_c d_c b_c g_c s_c + \frac{1}{2} G B' N_g Y_g i_g b_g s_g$$

dove

Caratteristiche geometriche della fondazione:

q = carico sul piano di fondazione
 B = lato minore della fondazione
 L = lato maggiore della fondazione
 D = profondità della fondazione
 α = inclinazione base della fondazione
 G = peso specifico del terreno
 $B' = larghezza\ di\ fondazione\ ridotta = B - 2\ eB$
 $L' = lunghezza\ di\ fondazione\ ridotta = L - 2\ eL$

Caratteristiche di carico sulla fondazione:

H = risultante delle forze orizzontali
 N = risultante delle forze verticali
 eB = eccentricità del carico verticale lungo B
 eL = eccentricità del carico verticale lungo L
 FhB = forza orizzontale lungo B
 FhL = forza orizzontale lungo L

Caratteristiche del terreno di fondazione:

β = inclinazione terreno a valle
 $c = c_u$ = coesione non drenata (condizioni U)
 $c = c'$ = coesione drenata (condizioni D)
 Γ = peso specifico apparente (condizioni U)
 $\Gamma = \Gamma'$ = peso specifico sommerso (condizioni D)
 $\phi = 0$ = angolo di attrito interno (condizioni U)
 $\phi = \phi'$ = angolo di attrito interno (condizioni D)

Fattori di capacità portante:

$$N_q = \tan^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \exp(\pi \cdot \tan \phi) \quad (\text{Prandtl-Cauchot-Meyerhof})$$
$$N_g = 2(N_q + 1) \tan \phi \quad (\text{Vesic})$$

$$Nc = \frac{Nq - 1}{\tan \phi} \quad \text{in condizioni D} \quad (\text{Reissner-Meyerhof})$$

$$Nc = 5,14 \quad \text{in condizioni U}$$

Indici di rigidezza (condizioni D):

$$Ir = \frac{G}{c' + q' \tan \phi} = \text{indice di rigidezza}$$

$$q' = \text{pressione litostatica efficace alla profondità } D + \frac{B}{2}$$

$$G = \frac{E}{2(1 + \mu)} = \text{modulo elastico tangenziale}$$

E = modulo elastico normale

μ = coefficiente di Poisson

$$Icr = \frac{1}{2} \exp \left[\frac{3,3 - 0,45 \frac{B}{L}}{\tan(45 - \frac{\phi'}{2})} \right] = \text{indice di rigidezza critico}$$

Coefficienti di punzonamento (Vesic):

$$Yq = Yg = \exp \left[\left(0,6 \frac{B}{L} - 4,4 \right) \tan \phi' + \frac{3,07 \sin \phi' \log(2Ir)}{1 + \sin \phi'} \right] \text{ in condizioni drenate, per } Ir \leq Icr$$

$$Yc = Yq - \frac{1 - Yq}{Nq \times \tan \phi'}$$

Coefficienti di inclinazione del carico (Vesic):

$$ig = \left(\frac{1 - H}{N + B \times L \times c' \times \cot \text{ang} \phi'} \right)^{m+1}$$

$$iq = \left(\frac{1 - H}{N + B \times L \times c' \times \cot \phi'} \right)^m$$

$$ic = iq - \frac{1 - iq}{Nc \times \tan \phi'} \quad \text{in condizioni D}$$

$$ic = 1 - \frac{m \times H}{B \times L \times cu \times Nc} \quad \text{in condizioni U}$$

essendo:

$$m = mB \cos^2 \Theta + mL \sin^2 \Theta$$

$$mB = \frac{2 + \frac{B'}{L'}}{1 + \frac{L'}{B'}}$$

$$mL = \frac{2 + \frac{L'}{B'}}{1 + \frac{L'}{B'}}$$

$$\Theta = \tan^{-1} \frac{Fh \times B}{Fh \times L}$$

Coefficienti di affondamento del piano di posa (Brinch-Hansen):

$$dq = 1 + 2 \tan \phi (1 - \sin \phi)^2 \arctg \frac{D}{B'} \quad \text{per } D > B'$$

$$dq = 1 + 2 \frac{D}{B'} \tan \phi (1 - \sin \phi)^2 \quad \text{per } D \leq B'$$

$$dc = dq - \frac{1 - dq}{Nc \times \tan \phi} \quad \text{in condizioni D}$$

$$dc = 1 + 0,4 \arctan \frac{D}{B'} \quad \text{per } D > B' \text{ in condizioni U}$$

$$dc = 1 + 0,4 \frac{D}{B'} \quad \text{per } D \leq B' \text{ in condizioni U}$$

Coefficienti di inclinazione del piano di posa:

$$\begin{aligned} bg &= \exp(-2,7\alpha \tan \phi) \\ bc &= bq = \exp(-2\alpha \tan \phi) && \text{in condizioni D} \\ bc &= 1 - \frac{\alpha}{147} && \text{in condizioni U} \\ bq &= 1 && \text{in condizioni U) } \end{aligned}$$

Coefficienti di inclinazione del terreno di fondazione:

$$\begin{aligned} gc &= gq = \sqrt{1 - 0,5 \tan \beta} && \text{in condizioni D} \\ gc &= 1 - \frac{\beta}{147} && \text{in condizioni U} \\ gq &= 1 && \text{in condizioni U} \end{aligned}$$

Coefficienti di forma (De Beer):

$$\begin{aligned} sg &= 1 - 0,4 \frac{B'}{L'} \\ sq &= 1 + \frac{B'}{L'} \tan \phi \\ sc &= 1 + \frac{B' Nq}{L' Nc} \end{aligned}$$

L'azione del sisma si traduce in accelerazioni nel sottosuolo (effetto cinematico) e nella fondazione, per l'azione delle forze d'inerzia generate nella struttura in elevazione (effetto inerziale). Tali effetti possono essere portati in conto mediante l'introduzione di coefficienti sismici rispettivamente denominati Khi e Igk, il primo definito dal rapporto tra le componenti orizzontale e verticale dei carichi trasmessi in fondazione ed il secondo funzione dell'accelerazione massima attesa al sito. L'effetto inerziale produce variazioni di tutti i coefficienti di capacità portante del carico limite in funzione del coefficiente sismico Khi e viene portato in conto impiegando le formule comunemente adottate per calcolare i coefficienti correttivi del carico limite in funzione dell'inclinazione, rispetto alla verticale, del carico agente sul piano di posa. Nel caso in cui sia stato attivato il flag per tener conto degli effetti cinematici il valore Igk modifica invece il solo coefficiente Ng; il fattore Ng viene infatti moltiplicato sia per il coefficiente correttivo dell'effetto inerziale, sia per il coefficiente correttivo per l'effetto cinematico.

- **CAPACITÀ PORTANTE DELLE PLATEE**

La verifica agli S.L.U. delle platee di fondazione risulta particolarmente difficoltosa poiché tali fondazioni spesso hanno forme non rettangolari e pertanto non è possibile valutarne la capacità portante attraverso le classiche formule della geotecnica.

Per potere valutare la portanza delle platee si è quindi implementato un tipo di verifica in cui la fondazione viene modellata per intero (potendo essere costituita, nella forma più generale, da travi rovesce, plinti, pali e platee).

In particolare, gli elementi strutturali vengono modellati in campo elastico lineare, mentre il terreno viene modellato come un letto di molle:

- a) lineari elastiche e non reagenti a trazione per le platee;
- b) molle non lineari elasto-plastiche non reagenti a trazione per le travi *Winkler* ed i plinti diretti.

Per le molle elastiche delle platee viene calcolato anche il limite elastico, al fine di bloccare il calcolo del moltiplicatore dei carichi qualora venga raggiunto tale limite.

Il legame di tipo elastico reagente a sola compressione è ottenuto utilizzando come rigidità all'origine la costante di *Winkler* del terreno. Il modello così ottenuto è in grado di tenere in conto dell'eterogeneità del terreno in maniera puntuale. Su tale modello viene quindi condotta un'analisi non lineare a controllo di forza immettendo le forze agenti sulla fondazione.

Il calcolo viene interrotto quando le molle delle platee attingono al loro limite elastico o qualora venga raggiunto uno stato di incipiente formazione di cerniere plastiche nelle travi *Winkler*. In corrispondenza a tali eventi viene calcolato il moltiplicatore dei carichi.

• CALCOLO DEI CEDIMENTI

Il calcolo viene eseguito sulla base della conoscenza delle tensioni nel sottosuolo.

$$\mu = \int \frac{\sigma(z)}{E} dz$$

essendo

E = modulo elastico o edometrico

$\sigma(z)$ = tensione verticale nel sottosuolo dovuta all'incremento di carico q

La distribuzione delle tensioni verticali viene valutata secondo l'espressione di *Steinbrenner*, considerando la pressione agente uniformemente su una superficie rettangolare di dimensioni B e L :

$$\sigma(z) = \frac{q}{4\pi} \left[\frac{2 \times M \times N \times \sqrt{V} \times (V+1)}{V(V+V1)} + \left| \arctan \frac{2 \times M \times N \times \sqrt{V}}{V-V1} \right| \right]$$

con:

$$M = B / z$$

$$N = L / z$$

$$V = M^2 + N^2 + 1$$

$$V1 = (M \times N)^2$$

In riferimento alla categoria topografica, essendo il sito con pendii con inclinazione media $\leq 15^\circ$, si adotterà una categoria topografica T1.

- Applicando la geofisica attiva, tali indagini sono state utili per definire la $V_{s,30}$ - $V_{s,eq}$ di sedime e conseguentemente l'identificazione della categoria sismica dei suoli:

N° PROVA MASW	$V_{s,30}$ - $V_{s,eq}$ (m/sec)	CATEGORIA SISMICA DEI SUOLI
MASW 1	592,97	B
MASW 2	472,02	B
MASW 3	442.88	B
MASW 4	-	E

Per quanto sopra, si considererà la categoria sismica del suolo prevalente, **B: Rocce tenere e depositi di terreni a grana grossa molto addensati o terreni a grana fina molto consistenti, caratterizzati da un miglioramento delle proprietà meccaniche con la profondità e da valori di velocità equivalente compresi tra 360 m/s e 800 m/s.**

	<i>SPT1</i>	<i>SPT1</i>	<i>Valore medio</i>
<i>phi [°]</i>	26.3	22.3	24.3
<i>Young [kg/cmq]</i>	106.6	38.6	72.6
<i>Edo [kg/cmq]</i>	136.1	73.7	104.9
<i>Peso [t/mc]</i>	1.7	1.5	1.6
<i>Peso saturo [t/mc]</i>	2.0	1.9	2.0
<i>poisson</i>	0.3	0.3	0.3
<i>G [kg/cmq]</i>	826.0	445.4	635.7

DATI GENERALI			
COEFFICIENTI PARZIALI GEOTECNICA			
		TABELLA M1	TABELLA M2
Tangente Resist. Taglio		1.00	
Peso Specifico		1.00	
Coesione Efficace (c'k)		1.00	
Resist. a taglio NON drenata (cuk)		1.00	
Tipo Approccio		Combinazione Unica: (A1+M1+R3)	
Tipo di fondazione		Su Pali Infissi	
	COEFFICIENTE R1	COEFFICIENTE R2	COEFFICIENTE R3
Capacita' Portante			2.30
Scorrimento			1.10
Resist. alla Base			1.15
Resist. Lat. a Compr.			1.15
Resist. Lat. a Traz.			1.25
Carichi Trasversali			1.30
Fattore di correlazione CSI per il calcolo di Rk pali			1.70

CRITERI DI PROGETTO GEOTECNICI - FONDAZIONI SUPERFICIALI																			
IDEN	CARATTERISTICHE DI SITO						IDEN	CARATTERISTICHE DI SITO						IDEN	CARATTERISTICHE DI SITO				
Crit N.ro	Falda (m)	Affond (m)	Ricopr (m)	Pend.X (grd)	Pend.Y (Grd)		Crit N.ro	Falda (m)	Affond (m)	Ricopr (m)	Pend.X (grd)	Pend.Y (Grd)		Crit N.ro	Falda (m)	Affond (m)	Ricopr (m)	Pend.X (grd)	Pend.Y (Grd)
1		0.00	0.00	0	0		2		2.50	0.50	0	0							

COORDINATE NODI3D PLATEA															
IDENT. POSIZIONE NODO				IDENT. POSIZIONE NODO				IDENT. POSIZIONE NODO				IDENT. POSIZIONE NODO			
Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)	Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)	Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)	Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)
1	0.00	3.34	0.00	2	0.83	3.34	0.00	3	1.67	3.34	0.00	4	2.50	3.34	0.00
5	3.34	3.34	0.00	21	3.34	0.00	0.00	23	0.00	0.00	0.00	33	0.90	0.00	0.00
34	2.40	0.00	0.00	35	3.34	2.50	0.00	36	3.34	1.67	0.00	37	3.34	0.83	0.00
38	0.00	2.50	0.00	39	0.00	1.67	0.00	40	0.00	0.83	0.00	41	1.00	2.00	0.00
42	1.00	1.00	0.00	43	2.00	1.00	0.00	44	2.00	2.00	0.00	45	1.00	3.00	0.00
46	2.00	3.00	0.00	47	3.00	2.00	0.00	48	3.00	1.00	0.00	49	3.00	3.00	0.00
50	1.65	0.00	0.00												

GEOMETRIA PLATEA																										
Shell N.ro	Nodo 1	Nodo 2	Nodo 3	Nodo 4	Sez Nro		Shell N.ro	Nodo 1	Nodo 2	Nodo 3	Nodo 4	Sez Nro		Shell N.ro	Nodo 1	Nodo 2	Nodo 3	Nodo 4	Sez Nro		Shell N.ro	Nodo 1	Nodo 2	Nodo 3	Nodo 4	Sez Nro
21	41	42	43	44	1		22	44	46	45	41	1		23	47	44	43	48	1		24	47	49	46	44	1
25	39	40	42	41	1		26	50	43	42	33	1		27	45	1	38	41	1		28	34	21	48	43	1
29	40	23	33	42	1		30	46	4	3	45	1		31	36	47	48	37	1		32	49	5	4	46	1
33	47	36	35	49	1		34	1	45	2	2	1		35	45	3	2	2	1		36	38	39	41	41	1
37	34	43	50	50	1		38	21	37	48	48	1		39	5	49	35	35	1							

STRATIGRAFIA PLATEA															
Str. N.ro	Q.t.v. (m)	Q.t.d. (m)	Q.falda (m)	Incl Grd	Kw kg/cm	Num Str	Sp.str. (m)	Peso Sp kg/mc	Fi' (Grd)	C' kg/cm	Cu kg/cm	Mod.El. kg/cm	Poisson	Gr.Sovr (%)	Mod.Ed. kg/cm
1	-2.30	-0.50		0	10.00	1		1600	24.00	0.00	0.00	72.60	0.30	1	105.00

COMBINAZIONI CARICHI - S.L.U. - A1															
DESCRIZIONI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Peso Strutturale	1.30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Perm.Non Strutturale	1.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Var.Bibl.Arch.	1.50	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Corr. Tors. dir. 0	0.00	1.00	-1.00	1.00	-1.00	1.00	-1.00	1.00	-1.00	-1.00	1.00	-1.00	1.00	-1.00	1.00
Corr. Tors. dir. 90	0.00	0.30	0.30	-0.30	-0.30	-0.30	-0.30	0.30	0.30	0.30	-0.30	-0.30	-0.30	-0.30	-0.30
Sisma direz. grd 0	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	-1.00	-1.00
Sisma direz. grd 90	0.00	0.30	0.30	0.30	0.30	-0.30	-0.30	-0.30	-0.30	-0.30	0.30	0.30	0.30	-0.30	-0.30

COMBINAZIONI CARICHI - S.L.U. - A1															
DESCRIZIONI	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Peso Strutturale	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Perm.Non Strutturale	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Var.Bibl.Arch.	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Corr. Tors. dir. 0	-1.00	1.00	0.30	-0.30	0.30	-0.30	0.30	-0.30	0.30	-0.30	-0.30	0.30	-0.30	0.30	-0.30
Corr. Tors. dir. 90	0.30	0.30	1.00	1.00	-1.00	-1.00	-1.00	1.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	-1.00
Sisma direz. grd 0	-1.00	-1.00	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	-0.30	-0.30	-0.30	-0.30	-0.30
Sisma direz. grd 90	-0.30	-0.30	1.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	-1.00	1.00	1.00	1.00	1.00	-1.00

COMBINAZIONI CARICHI - S.L.U. - A1

DESCRIZIONI	31	32	33
Peso Strutturale	1.00	1.00	1.00
Perm.Non Strutturale	1.00	1.00	1.00
Var.Bibl.Arch.	0.80	0.80	0.80
Corr. Tors. dir. 0	0.30	-0.30	0.30
Corr. Tors. dir. 90	-1.00	1.00	1.00
Sisma direz. grd 0	-0.30	-0.30	-0.30
Sisma direz. grd 90	-1.00	-1.00	-1.00

COMBINAZIONI RARE - S.L.E.

DESCRIZIONI	1
Peso Strutturale	1.00
Perm.Non Strutturale	1.00
Var.Bibl.Arch.	1.00
Corr. Tors. dir. 0	0.00
Corr. Tors. dir. 90	0.00
Sisma direz. grd 0	0.00
Sisma direz. grd 90	0.00

COMBINAZIONI FREQUENTI - S.L.E.

DESCRIZIONI	1
Peso Strutturale	1.00
Perm.Non Strutturale	1.00
Var.Bibl.Arch.	0.90
Corr. Tors. dir. 0	0.00
Corr. Tors. dir. 90	0.00
Sisma direz. grd 0	0.00
Sisma direz. grd 90	0.00

COMBINAZIONI PERMANENTI - S.L.E.

DESCRIZIONI	1
Peso Strutturale	1.00
Perm.Non Strutturale	1.00
Var.Bibl.Arch.	0.80
Corr. Tors. dir. 0	0.00
Corr. Tors. dir. 90	0.00
Sisma direz. grd 0	0.00
Sisma direz. grd 90	0.00

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

Nod3d N.ro	Combinazione N.ro	Fz (t)	Nod3d N.ro	Combinazione N.ro	Fz (t)	Nod3d N.ro	Combinazione N.ro	Fz (t)	Nod3d N.ro	Combinazione N.ro	Fz (t)
1	A1/1	-1.40	2	A1/1	-0.48	3	A1/1	-0.64	4	A1/1	-0.81
	X+ A1/5	-0.59		X+ A1/5	-0.29		X+ A1/2	-0.48		X+ A1/2	-0.74
	X- A1/12	-1.54		X- A1/12	-0.44		X- A1/11	-0.48		X- A1/11	-0.48
	Y+ A1/28	-1.55		Y+ A1/28	-0.50		Y+ A1/18	-0.63		Y+ A1/18	-0.84
	Y- A1/30	-0.58		Y- A1/30	-0.18		Y- A1/24	-0.21		Y- A1/24	-0.31
5	A1/1	-0.68	21	A1/1	-1.51	23	A1/1	-1.05	33	A1/1	-2.13
	X+ A1/2	-0.73		X+ A1/7	-1.65		X+ A1/8	-0.42		X+ A1/8	-1.33
	X- A1/11	-0.29		X- A1/14	-0.62		X- A1/17	-1.19		X- A1/17	-1.89
	Y+ A1/18	-0.73		Y+ A1/21	-0.62		Y+ A1/27	-0.42		Y+ A1/27	-0.74
	Y- A1/24	-0.29		Y- A1/23	-1.64		Y- A1/33	-1.19		Y- A1/33	-2.20
34	A1/1	-1.85	35	A1/1	-0.67	36	A1/1	-0.81	37	A1/1	-0.65
	X+ A1/7	-1.62		X+ A1/2	-0.69		X+ A1/8	-0.80		X+ A1/7	-0.68
	X- A1/14	-1.17		X- A1/11	-0.25		X- A1/17	-0.26		X- A1/14	-0.24
	Y+ A1/21	-0.65		Y+ A1/18	-0.61		Y+ A1/18	-0.61		Y+ A1/21	-0.38
	Y- A1/23	-1.90		Y- A1/24	-0.39		Y- A1/24	-0.61		Y- A1/23	-0.60
38	A1/1	-1.83	39	A1/1	-1.80	40	A1/1	-2.16	41	A1/1	-4.40
	X+ A1/5	-0.67		X+ A1/7	-0.55		X+ A1/8	-0.76		X+ A1/5	-2.32
	X- A1/12	-1.93		X- A1/14	-1.81		X- A1/17	-2.30		X- A1/12	-3.53
	Y+ A1/28	-1.71		Y+ A1/28	-1.37		Y+ A1/27	-1.25		Y+ A1/28	-3.30
	Y- A1/30	-1.07		Y- A1/30	-1.37		Y- A1/33	-2.04		Y- A1/30	-2.73
42	A1/1	-3.68	43	A1/1	-4.18	44	A1/1	-3.75	45	A1/1	-3.17
	X+ A1/8	-2.04		X+ A1/7	-3.11		X+ A1/2	-2.72		X+ A1/5	-1.93
	X- A1/17	-3.02		X- A1/14	-2.59		X- A1/11	-2.23		X- A1/12	-2.72
	Y+ A1/27	-1.99		Y+ A1/21	-2.17		Y+ A1/18	-2.72		Y+ A1/28	-3.02
	Y- A1/33	-3.04		Y- A1/23	-3.34		Y- A1/24	-2.22		Y- A1/30	-1.37
46	A1/1	-3.19	47	A1/1	-3.25	48	A1/1	-3.05	49	A1/1	-2.38
	X+ A1/2	-2.52		X+ A1/2	-3.01		X+ A1/7	-2.89		X+ A1/2	-2.35
	X- A1/11	-2.13		X- A1/11	-1.33		X- A1/14	-1.31		X- A1/11	-1.13
	Y+ A1/18	-2.96		Y+ A1/18	-2.57		Y+ A1/21	-1.81		Y+ A1/18	-2.35
	Y- A1/24	-1.32		Y- A1/24	-2.15		Y- A1/23	-2.62		Y- A1/24	-1.12
50	A1/1	-1.58									
	X+ A1/8	-1.17									
	X- A1/17	-1.18									

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU											
Nod3d N.ro	Combinazione N.ro		Fz (t)	Nod3d N.ro	Combinazione N.ro		Fz (t)	Nod3d N.ro	Combinazione N.ro		Fz (t)
	Y+	A1/27	-0.51								
	Y-	A1/33	-1.54								

PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.												
IDENTIFICATIVO				CONDIZIONE DRENATA							NON DRENATA	
Piast N.ro	Infiss m	Tipo Tabel	Gamma kg/mc	Fi' Grd	C' kg/cmq	Mod.El kg/cmq	Poiss on	P base kg/cmq	Indice Rigid.	IndRig Crit.	Cu kg/cmq	P base kg/cmq
1	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	407.03	40.26		
2	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	459.09	40.26		
3	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	446.96	40.26		
4	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	436.76	40.26		
5	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	446.96	40.26		
6	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	404.44	40.26		
7	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	420.19	40.26		
8	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	380.56	40.26		
9	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	390.76	40.26		
10	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	446.96	40.26		
11	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	436.76	40.26		
12	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	446.96	40.26		
13	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	390.59	40.26		
14	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	390.59	40.26		
15	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	379.08	40.26		
16	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	320.27	40.26		
17	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	332.67	40.26		
18	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	321.00	40.26		
19	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	326.65	40.26		
20	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	355.14	40.26		
21	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	354.74	40.26		
22	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	354.74	40.26		
23	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	358.62	40.26		
24	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	378.12	40.26		
25	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	394.68	40.26		

PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.

IDENTIFICATIVO				CONDIZIONE DRENATA							NON DRENATA	
Piast N.ro	Infiss m	Tipo Tabel	Gamma kg/mc	Fi' Grd	C' kg/cmq	Mod.El kg/cmq	Poiss on	P base kg/cmq	Indice Rigid.	IndRig Crit.	Cu kg/cmq	P base kg/cmq

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

Piast Nro	Brinch Hansen			Ic/Te Gc=Gq	Incl.PianoPosa			Comb N.ro	Ilg Sism	CoeffIncl.Car.			Affondamento			Forma			Punzonamento			
	Nc	Nq	Ng		Bc	Bq	Bg			IcV	IqV	IgV	Dc	Dq	Dg	Sc	Sq	Sg	Psic	Psig	Psig	
1	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/5	1.00	0.76	0.79	0.67	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/12	1.00	0.76	0.79	0.67	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/28	1.00	0.79	0.81	0.70	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/30	1.00	0.73	0.76	0.63	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
2	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/5	1.00	0.76	0.79	0.67	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/12	1.00	0.76	0.79	0.67	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/28	1.00	0.79	0.81	0.70	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/30	1.00	0.73	0.76	0.63	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
3	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/2	1.00	0.76	0.79	0.67	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/11	1.00	0.76	0.79	0.67	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
4	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/2	1.00	0.76	0.79	0.67	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/11	1.00	0.76	0.79	0.67	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
5	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/2	1.00	0.76	0.79	0.67	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/11	1.00	0.76	0.79	0.67	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
6	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/7	1.00	0.75	0.77	0.65	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/14	1.00	0.75	0.77	0.65	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/21	1.00	0.79	0.81	0.70	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/23	1.00	0.73	0.76	0.63	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
7	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/8	1.00	0.75	0.77	0.65	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/17	1.00	0.75	0.77	0.65	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/27	1.00	0.79	0.81	0.70	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/33	1.00	0.73	0.76	0.63	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
8	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/8	1.00	0.75	0.77	0.65	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/17	1.00	0.75	0.77	0.65	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/27	1.00	0.79	0.81	0.70	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/33	1.00	0.73	0.76	0.63	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
9	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/7	1.00	0.75	0.77	0.65	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/14	1.00	0.75	0.77	0.65	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/21	1.00	0.79	0.81	0.70	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/23	1.00	0.73	0.76	0.63	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
10	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/2	1.00	0.76	0.79	0.67	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/11	1.00	0.76	0.79	0.67	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
11	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/8	1.00	0.75	0.77	0.65	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/17	1.00	0.75	0.77	0.65	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
12	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/7	1.00	0.75	0.77	0.65	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/14	1.00	0.75	0.77	0.65	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/21	1.00	0.79	0.81	0.70	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/23	1.00	0.73	0.76	0.63	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
13	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/5	1.00	0.76	0.79	0.67	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.																						
Piastr Nro	Brinch Hansen			IclTe Gc=Gq	Incl.PianoPosa			Comb N.ro	Ilgk Sism	CoeffIncl.Car.			Affondamento			Forma			Punzonamento			
	Nc	Nq	Ng		Bc	Bq	Bg			IcV	IqV	IgV	Dc	Dq	Dg	Sc	Sq	Sg	Psic	Psig	Psig	
								X-	A1/12	1.00	0.76	0.79	0.67	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/28	1.00	0.79	0.81	0.70	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/30	1.00	0.73	0.76	0.63	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
14	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/7	1.00	0.75	0.77	0.65	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/14	1.00	0.75	0.77	0.65	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/28	1.00	0.79	0.81	0.70	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/30	1.00	0.73	0.76	0.63	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
15	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/8	1.00	0.75	0.77	0.65	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/17	1.00	0.75	0.77	0.65	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/27	1.00	0.79	0.81	0.70	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/33	1.00	0.73	0.76	0.63	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
16	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/5	1.00	0.76	0.79	0.67	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/12	1.00	0.76	0.79	0.67	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/28	1.00	0.79	0.81	0.70	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/30	1.00	0.73	0.76	0.63	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
17	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/8	1.00	0.75	0.77	0.65	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/17	1.00	0.75	0.77	0.65	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/27	1.00	0.79	0.81	0.70	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/33	1.00	0.73	0.76	0.63	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
18	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/7	1.00	0.75	0.77	0.65	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/14	1.00	0.75	0.77	0.65	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/21	1.00	0.79	0.81	0.70	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/23	1.00	0.73	0.76	0.63	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
19	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/2	1.00	0.76	0.79	0.67	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/11	1.00	0.76	0.79	0.67	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
20	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/5	1.00	0.76	0.79	0.67	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/12	1.00	0.76	0.79	0.67	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/28	1.00	0.79	0.81	0.70	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/30	1.00	0.73	0.76	0.63	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
21	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/2	1.00	0.76	0.79	0.67	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/11	1.00	0.76	0.79	0.67	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
22	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/2	1.00	0.76	0.79	0.67	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/11	1.00	0.76	0.79	0.67	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
23	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/7	1.00	0.75	0.77	0.65	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/14	1.00	0.75	0.77	0.65	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/21	1.00	0.79	0.81	0.70	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/23	1.00	0.73	0.76	0.63	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
24	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A1/1	1.00	0.97	0.97	0.95	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	A1/2	1.00	0.76	0.79	0.67	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	A1/11	1.00	0.76	0.79	0.67	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	A1/18	1.00	0.79	0.81	0.70	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	A1/24	1.00	0.73	0.76	0.63	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
25	19.32	9.60	9.44	1.00	1.00	1.00	1.00		A10													

CARICO LIMITE PIASTRE WINKLER - S.L.U.														
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI					
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf kg/mc	QLimV (t)	GamEf kg/mc	QLimV (t)	N (t)	Coeff. Sicur.	Minimo CoeSic	N/Ar kg/cmq	QLim/Ar kg/cmq	Status Verifica
1	1	A1/1	0.53	0.53	1600	2.6								
		X+ A1/5	0.53	0.53	1600	2.1								
		X- A1/12	0.53	0.53	1600	2.1								
		Y+ A1/28	0.53	0.53	1600	2.2								
		Y- A1/30	0.53	0.53	1600	2.0								
2	2	A1/1	0.31	0.31	1600	0.9								
		X+ A1/5	0.31	0.31	1600	0.7								
		X- A1/12	0.31	0.31	1600	0.7								
		Y+ A1/28	0.31	0.31	1600	0.7								
		Y- A1/30	0.31	0.31	1600	0.7								
3	3	A1/1	0.35	0.35	1600	1.2								
		X+ A1/2	0.35	0.35	1600	1.0								
		X- A1/11	0.35	0.35	1600	1.0								
		Y+ A1/18	0.35	0.35	1600	1.0								
		Y- A1/24	0.35	0.35	1600	0.9								
4	4	A1/1	0.39	0.39	1600	1.5								
		X+ A1/2	0.39	0.39	1600	1.2								
		X- A1/11	0.39	0.39	1600	1.2								
		Y+ A1/18	0.39	0.39	1600	1.2								
		Y- A1/24	0.39	0.39	1600	1.1								
5	5	A1/1	0.35	0.35	1600	1.2								
		X+ A1/2	0.35	0.35	1600	1.0								
		X- A1/11	0.35	0.35	1600	1.0								
		Y+ A1/18	0.35	0.35	1600	1.0								
		Y- A1/24	0.35	0.35	1600	0.9								
6	21	A1/1	0.54	0.54	1600	2.7								
		X+ A1/7	0.54	0.54	1600	2.1								
		X- A1/14	0.54	0.54	1600	2.1								
		Y+ A1/21	0.54	0.54	1600	2.3								
		Y- A1/23	0.54	0.54	1600	2.1								
7	23	A1/1	0.47	0.47	1600	2.1								
		X+ A1/8	0.47	0.47	1600	1.6								
		X- A1/17	0.47	0.47	1600	1.6								
		Y+ A1/27	0.47	0.47	1600	1.7								
		Y- A1/33	0.47	0.47	1600	1.6								
8	33	A1/1	0.66	0.66	1600	4.1								
		X+ A1/8	0.66	0.66	1600	3.2								
		X- A1/17	0.66	0.66	1600	3.2								
		Y+ A1/27	0.66	0.66	1600	3.4								
		Y- A1/33	0.66	0.66	1600	3.2								
9	34	A1/1	0.61	0.61	1600	3.5								
		X+ A1/7	0.61	0.61	1600	2.7								
		X- A1/14	0.61	0.61	1600	2.7								
		Y+ A1/21	0.61	0.61	1600	2.9								
		Y- A1/23	0.61	0.61	1600	2.7								
10	35	A1/1	0.35	0.35	1600	1.2								
		X+ A1/2	0.35	0.35	1600	1.0								
		X- A1/11	0.35	0.35	1600	1.0								
		Y+ A1/18	0.35	0.35	1600	1.0								
		Y- A1/24	0.35	0.35	1600	0.9								
11	36	A1/1	0.39	0.39	1600	1.5								
		X+ A1/8	0.39	0.39	1600	1.2								
		X- A1/17	0.39	0.39	1600	1.2								
		Y+ A1/18	0.39	0.39	1600	1.2								
		Y- A1/24	0.39	0.39	1600	1.1								
12	37	A1/1	0.35	0.35	1600	1.2								
		X+ A1/7	0.35	0.35	1600	0.9								
		X- A1/14	0.35	0.35	1600	0.9								
		Y+ A1/21	0.35	0.35	1600	1.0								
		Y- A1/23	0.35	0.35	1600	0.9								
13	38	A1/1	0.61	0.61	1600	3.5								
		X+ A1/5	0.61	0.61	1600	2.8								
		X- A1/12	0.61	0.61	1600	2.8								
		Y+ A1/28	0.61	0.61	1600	2.9								

CARICO LIMITE PIASTRE WINKLER - S.L.U.														
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI					
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf kg/mc	QLimV (t)	GamEf kg/mc	QLimV (t)	N (t)	Coeff. Sicur.	Minimo CoeSic	N/Ar kg/cmq	QLim/Ar kg/cmq	Status Verifica
		Y- A1/30	0.61	0.61	1600	2.7								
14	39	A1/1	0.61	0.61	1600	3.5								
		X+ A1/7	0.61	0.61	1600	2.7								
		X- A1/14	0.61	0.61	1600	2.7								
		Y+ A1/28	0.61	0.61	1600	2.9								
		Y- A1/30	0.61	0.61	1600	2.7								
15	40	A1/1	0.67	0.67	1600	4.2								
		X+ A1/8	0.67	0.67	1600	3.3								
		X- A1/17	0.67	0.67	1600	3.3								
		Y+ A1/27	0.67	0.67	1600	3.5								
		Y- A1/33	0.67	0.67	1600	3.2								
16	41	A1/1	1.05	1.05	1600	10.9								
		X+ A1/5	1.05	1.05	1600	8.6								
		X- A1/12	1.05	1.05	1600	8.6								
		Y+ A1/28	1.05	1.05	1600	8.8								
		Y- A1/30	1.05	1.05	1600	8.2								
17	42	A1/1	0.96	0.96	1600	9.0								
		X+ A1/8	0.96	0.96	1600	7.0								
		X- A1/17	0.96	0.96	1600	7.0								
		Y+ A1/27	0.96	0.96	1600	7.4								
		Y- A1/33	0.96	0.96	1600	6.9								
18	43	A1/1	1.04	1.04	1600	10.8								
		X+ A1/7	1.04	1.04	1600	8.3								
		X- A1/14	1.04	1.04	1600	8.3								
		Y+ A1/21	1.04	1.04	1600	8.8								
		Y- A1/23	1.04	1.04	1600	8.1								
19	44	A1/1	1.00	1.00	1600	9.9								
		X+ A1/2	1.00	1.00	1600	7.8								
		X- A1/11	1.00	1.00	1600	7.8								
		Y+ A1/18	1.00	1.00	1600	8.0								
		Y- A1/24	1.00	1.00	1600	7.5								
20	45	A1/1	0.81	0.81	1600	6.4								
		X+ A1/5	0.81	0.81	1600	5.1								
		X- A1/12	0.81	0.81	1600	5.1								
		Y+ A1/28	0.81	0.81	1600	5.3								
		Y- A1/30	0.81	0.81	1600	4.9								
21	46	A1/1	0.81	0.81	1600	6.5								
		X+ A1/2	0.81	0.81	1600	5.1								
		X- A1/11	0.81	0.81	1600	5.1								
		Y+ A1/18	0.81	0.81	1600	5.3								
		Y- A1/24	0.81	0.81	1600	4.9								
22	47	A1/1	0.81	0.81	1600	6.5								
		X+ A1/2	0.81	0.81	1600	5.1								
		X- A1/11	0.81	0.81	1600	5.1								
		Y+ A1/18	0.81	0.81	1600	5.3								
		Y- A1/24	0.81	0.81	1600	4.9								
23	48	A1/1	0.79	0.79	1600	6.1								
		X+ A1/7	0.79	0.79	1600	4.8								
		X- A1/14	0.79	0.79	1600	4.8								
		Y+ A1/21	0.79	0.79	1600	5.0								
		Y- A1/23	0.79	0.79	1600	4.7								
24	49	A1/1	0.67	0.67	1600	4.3								
		X+ A1/2	0.67	0.67	1600	3.4								
		X- A1/11	0.67	0.67	1600	3.4								
		Y+ A1/18	0.67	0.67	1600	3.5								
		Y- A1/24	0.67	0.67	1600	3.3								
25	50	A1/1	0.59	0.59	1600	3.3								
		X+ A1/8	0.59	0.59	1600	2.5								
		X- A1/17	0.59	0.59	1600	2.5								
		Y+ A1/27	0.59	0.59	1600	2.7								
		Y- A1/33	0.59	0.59	1600	2.5								

PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.D.												
IDENTIFICATIVO				CONDIZIONE DRENATA							NON DRENATA	
Piast N.ro	Infiss m	Tipo Tabel	Gamma kg/mc	Fi' Grd	C' kg/cmq	Mod.El kg/cmq	Poiss on	P base kg/cmq	Indice Rigid.	IndRig Crit.	Cu kg/cmq	P base kg/cmq
1	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	407.03	40.26		
2	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	459.09	40.26		
3	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	446.96	40.26		
4	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	436.76	40.26		
5	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	446.96	40.26		
6	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	404.44	40.26		
7	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	420.19	40.26		
8	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	380.56	40.26		
9	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	390.76	40.26		
10	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	446.96	40.26		
11	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	436.76	40.26		
12	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	446.96	40.26		
13	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	390.59	40.26		
14	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	390.59	40.26		
15	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	379.08	40.26		
16	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	320.27	40.26		
17	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	332.67	40.26		
18	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	321.00	40.26		
19	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	326.65	40.26		
20	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	355.14	40.26		
21	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	354.74	40.26		
22	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	354.74	40.26		
23	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	358.62	40.26		
24	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	378.12	40.26		
25	0.70	M1	1600	24.00	0.00	72.60	0.30	0.11	394.68	40.26		

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.I.D.

Piastr Nro	Brinch Hansen			IclTe Gc=Gq	Incl.PianoPosa			Comb N.ro	Ilgk Sism	Coeffincl.Car.			Affondamento			Forma			Punzonamento			
	Nc	Nq	Ng		Bc	Bq	Bg			IcV	IqV	IgV	Dc	Dq	Dg	Sc	Sq	Sg	Psic	Psig	Psig	
1	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/5	1.00	0.88	0.89	0.83	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/12	1.00	0.88	0.89	0.83	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/28	1.00	0.91	0.92	0.86	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/30	1.00	0.85	0.86	0.78	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
2	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/5	1.00	0.88	0.89	0.83	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/12	1.00	0.88	0.89	0.83	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/28	1.00	0.91	0.92	0.86	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/30	1.00	0.85	0.86	0.78	1.40	1.36	1.00	1.50	1.45	0.60	1.00	1.00	1.00
3	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/2	1.00	0.88	0.89	0.83	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/11	1.00	0.88	0.89	0.83	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
4	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/2	1.00	0.88	0.89	0.83	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/11	1.00	0.88	0.89	0.83	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
5	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/2	1.00	0.88	0.89	0.83	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/11	1.00	0.88	0.89	0.83	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
6	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/7	1.00	0.86	0.88	0.81	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/14	1.00	0.86	0.88	0.81	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/21	1.00	0.91	0.92	0.86	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/23	1.00	0.85	0.86	0.78	1.32	1.29	1.00	1.50	1.45	0.60	1.00	1.00	1.00
7	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/8	1.00	0.86	0.88	0.81	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/17	1.00	0.86	0.88	0.81	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/27	1.00	0.91	0.92	0.86	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/33	1.00	0.85	0.86	0.78	1.34	1.31	1.00	1.50	1.45	0.60	1.00	1.00	1.00
8	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/8	1.00	0.86	0.88	0.81	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/17	1.00	0.86	0.88	0.81	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/27	1.00	0.91	0.92	0.86	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/33	1.00	0.85	0.86	0.78	1.29	1.26	1.00	1.50	1.45	0.60	1.00	1.00	1.00
9	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/7	1.00	0.86	0.88	0.81	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/14	1.00	0.86	0.88	0.81	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/21	1.00	0.91	0.92	0.86	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/23	1.00	0.85	0.86	0.78	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
10	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/2	1.00	0.88	0.89	0.83	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/11	1.00	0.88	0.89	0.83	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
11	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/8	1.00	0.86	0.88	0.81	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/17	1.00	0.86	0.88	0.81	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.37	1.33	1.00	1.50	1.45	0.60	1.00	1.00	1.00
12	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/7	1.00	0.86	0.88	0.81	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/14	1.00	0.86	0.88	0.81	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/21	1.00	0.91	0.92	0.86	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/23	1.00	0.85	0.86	0.78	1.39	1.35	1.00	1.50	1.45	0.60	1.00	1.00	1.00
13	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/5	1.00	0.88	0.89	0.83	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/12	1.00	0.88	0.89	0.83	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/28	1.00	0.91	0.92	0.86	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/30	1.00	0.85	0.86	0.78	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
14	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/7	1.00	0.86	0.88	0.81	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/14	1.00	0.86	0.88	0.81	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/28	1.00	0.91	0.92	0.86	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/30	1.00	0.85	0.86	0.78	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.D.																						
Piast Nro	Brinch Hansen			IclTe Gc=Gq	Incl.PianoPosa			Comb N.ro	Igk Sism	CoeffIncl.Car.			Affondamento			Forma			Punzonamento			
	Nc	Nq	Ng		Bc	Bq	Bg			IcV	IqV	IgV	Dc	Dq	Dg	Sc	Sq	Sg	Psic	Psig	Psig	
15	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/8	1.00	0.86	0.88	0.81	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/17	1.00	0.86	0.88	0.81	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/27	1.00	0.91	0.92	0.86	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/33	1.00	0.85	0.86	0.78	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
16	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/5	1.00	0.88	0.89	0.83	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/12	1.00	0.88	0.89	0.83	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/28	1.00	0.91	0.92	0.86	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/30	1.00	0.85	0.86	0.78	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
17	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/8	1.00	0.86	0.88	0.81	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/17	1.00	0.86	0.88	0.81	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/27	1.00	0.91	0.92	0.86	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/33	1.00	0.85	0.86	0.78	1.26	1.23	1.00	1.50	1.45	0.60	1.00	1.00	1.00
18	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/7	1.00	0.86	0.88	0.81	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/14	1.00	0.86	0.88	0.81	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/21	1.00	0.91	0.92	0.86	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/23	1.00	0.85	0.86	0.78	1.23	1.21	1.00	1.50	1.45	0.60	1.00	1.00	1.00
19	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/2	1.00	0.88	0.89	0.83	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/11	1.00	0.88	0.89	0.83	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.24	1.22	1.00	1.50	1.45	0.60	1.00	1.00	1.00
20	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/5	1.00	0.88	0.89	0.83	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/12	1.00	0.88	0.89	0.83	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/28	1.00	0.91	0.92	0.86	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/30	1.00	0.85	0.86	0.78	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
21	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/2	1.00	0.88	0.89	0.83	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/11	1.00	0.88	0.89	0.83	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
22	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/2	1.00	0.88	0.89	0.83	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/11	1.00	0.88	0.89	0.83	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.30	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
23	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/7	1.00	0.86	0.88	0.81	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/14	1.00	0.86	0.88	0.81	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/21	1.00	0.91	0.92	0.86	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/23	1.00	0.85	0.86	0.78	1.31	1.28	1.00	1.50	1.45	0.60	1.00	1.00	1.00
24	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/2	1.00	0.88	0.89	0.83	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/11	1.00	0.88	0.89	0.83	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/18	1.00	0.91	0.92	0.86	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/24	1.00	0.85	0.86	0.78	1.28	1.25	1.00	1.50	1.45	0.60	1.00	1.00	1.00
25	19.32	9.60	9.44	1.00	1.00	1.00	1.00		SLD/1	1.00	0.97	0.97	0.95	1.31	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X+	SLD/8	1.00	0.86	0.88	0.81	1.31	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								X-	SLD/17	1.00	0.86	0.88	0.81	1.31	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y+	SLD/27	1.00	0.91	0.92	0.86	1.31	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00
								Y-	SLD/33	1.00	0.85	0.86	0.78	1.31	1.27	1.00	1.50	1.45	0.60	1.00	1.00	1.00

CARICO LIMITE PIASTRE WINKLER - S.L.D.														
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI					
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf kg/mc	QLimV (t)	GamEf kg/mc	QLimV (t)	N (t)	Coeff. Sicur.	Minimo CoeSic	N/Ar kg/cmq	QLim/Ar kg/cmq	Status Verifica
		Y- SLD/30	0.31	0.31	1600	0.8								
3	3	SLD/1	0.35	0.35	1600	1.2								
		X+ SLD/2	0.35	0.35	1600	1.1								
		X- SLD/11	0.35	0.35	1600	1.1								
		Y+ SLD/18	0.35	0.35	1600	1.1								
		Y- SLD/24	0.35	0.35	1600	1.1								
4	4	SLD/1	0.39	0.39	1600	1.5								
		X+ SLD/2	0.39	0.39	1600	1.4								
		X- SLD/11	0.39	0.39	1600	1.4								
		Y+ SLD/18	0.39	0.39	1600	1.4								
		Y- SLD/24	0.39	0.39	1600	1.3								
5	5	SLD/1	0.35	0.35	1600	1.2								
		X+ SLD/2	0.35	0.35	1600	1.1								
		X- SLD/11	0.35	0.35	1600	1.1								
		Y+ SLD/18	0.35	0.35	1600	1.1								
		Y- SLD/24	0.35	0.35	1600	1.1								
6	21	SLD/1	0.54	0.54	1600	2.7								
		X+ SLD/7	0.54	0.54	1600	2.5								
		X- SLD/14	0.54	0.54	1600	2.5								
		Y+ SLD/21	0.54	0.54	1600	2.6								
		Y- SLD/23	0.54	0.54	1600	2.4								
7	23	SLD/1	0.47	0.47	1600	2.1								
		X+ SLD/8	0.47	0.47	1600	1.8								
		X- SLD/17	0.47	0.47	1600	1.8								
		Y+ SLD/27	0.47	0.47	1600	1.9								
		Y- SLD/33	0.47	0.47	1600	1.8								
8	33	SLD/1	0.66	0.66	1600	4.1								
		X+ SLD/8	0.66	0.66	1600	3.7								
		X- SLD/17	0.66	0.66	1600	3.7								
		Y+ SLD/27	0.66	0.66	1600	3.9								
		Y- SLD/33	0.66	0.66	1600	3.6								
9	34	SLD/1	0.61	0.61	1600	3.5								
		X+ SLD/7	0.61	0.61	1600	3.1								
		X- SLD/14	0.61	0.61	1600	3.1								
		Y+ SLD/21	0.61	0.61	1600	3.3								
		Y- SLD/23	0.61	0.61	1600	3.1								
10	35	SLD/1	0.35	0.35	1600	1.2								
		X+ SLD/2	0.35	0.35	1600	1.1								
		X- SLD/11	0.35	0.35	1600	1.1								
		Y+ SLD/18	0.35	0.35	1600	1.1								
		Y- SLD/24	0.35	0.35	1600	1.1								
11	36	SLD/1	0.39	0.39	1600	1.5								
		X+ SLD/8	0.39	0.39	1600	1.3								
		X- SLD/17	0.39	0.39	1600	1.3								
		Y+ SLD/18	0.39	0.39	1600	1.4								
		Y- SLD/24	0.39	0.39	1600	1.3								
12	37	SLD/1	0.35	0.35	1600	1.2								
		X+ SLD/7	0.35	0.35	1600	1.1								
		X- SLD/14	0.35	0.35	1600	1.1								
		Y+ SLD/21	0.35	0.35	1600	1.1								
		Y- SLD/23	0.35	0.35	1600	1.1								
13	38	SLD/1	0.61	0.61	1600	3.5								
		X+ SLD/5	0.61	0.61	1600	3.2								
		X- SLD/12	0.61	0.61	1600	3.2								
		Y+ SLD/28	0.61	0.61	1600	3.3								
		Y- SLD/30	0.61	0.61	1600	3.1								
14	39	SLD/1	0.61	0.61	1600	3.5								
		X+ SLD/7	0.61	0.61	1600	3.1								
		X- SLD/14	0.61	0.61	1600	3.1								
		Y+ SLD/28	0.61	0.61	1600	3.3								
		Y- SLD/30	0.61	0.61	1600	3.1								
15	40	SLD/1	0.67	0.67	1600	4.2								
		X+ SLD/8	0.67	0.67	1600	3.8								

CARICO LIMITE PIASTRE WINKLER - S.L.D.														
IDENTIFICATIVO					DRENATE		NON DRENATE		RISULTATI					
Piastr N.ro	Nodo3d N.ro	Comb N.ro	Bx' m	By' m	GamEf kg/mc	QLimV (t)	GamEf kg/mc	QLimV (t)	N (t)	Coeff. Sicur.	Minimo CoeSic	N/Ar kg/cmq	QLim/Ar kg/cmq	Status Verifica
		X- SLD/17	0.67	0.67	1600	3.8								
		Y+ SLD/27	0.67	0.67	1600	4.0								
		Y- SLD/33	0.67	0.67	1600	3.7								
16	41	SLD/1	1.05	1.05	1600	10.9								
		X+ SLD/5	1.05	1.05	1600	9.9								
		X- SLD/12	1.05	1.05	1600	9.9								
		Y+ SLD/28	1.05	1.05	1600	10.2								
		Y- SLD/30	1.05	1.05	1600	9.5								
17	42	SLD/1	0.96	0.96	1600	9.0								
		X+ SLD/8	0.96	0.96	1600	8.1								
		X- SLD/17	0.96	0.96	1600	8.1								
		Y+ SLD/27	0.96	0.96	1600	8.4								
		Y- SLD/33	0.96	0.96	1600	7.9								
18	43	SLD/1	1.04	1.04	1600	10.8								
		X+ SLD/7	1.04	1.04	1600	9.6								
		X- SLD/14	1.04	1.04	1600	9.6								
		Y+ SLD/21	1.04	1.04	1600	10.1								
		Y- SLD/23	1.04	1.04	1600	9.4								
19	44	SLD/1	1.00	1.00	1600	9.9								
		X+ SLD/2	1.00	1.00	1600	9.0								
		X- SLD/11	1.00	1.00	1600	9.0								
		Y+ SLD/18	1.00	1.00	1600	9.2								
		Y- SLD/24	1.00	1.00	1600	8.6								
20	45	SLD/1	0.81	0.81	1600	6.4								
		X+ SLD/5	0.81	0.81	1600	5.9								
		X- SLD/12	0.81	0.81	1600	5.9								
		Y+ SLD/28	0.81	0.81	1600	6.0								
		Y- SLD/30	0.81	0.81	1600	5.6								
21	46	SLD/1	0.81	0.81	1600	6.5								
		X+ SLD/2	0.81	0.81	1600	5.9								
		X- SLD/11	0.81	0.81	1600	5.9								
		Y+ SLD/18	0.81	0.81	1600	6.1								
		Y- SLD/24	0.81	0.81	1600	5.7								
22	47	SLD/1	0.81	0.81	1600	6.5								
		X+ SLD/2	0.81	0.81	1600	5.9								
		X- SLD/11	0.81	0.81	1600	5.9								
		Y+ SLD/18	0.81	0.81	1600	6.1								
		Y- SLD/24	0.81	0.81	1600	5.7								
23	48	SLD/1	0.79	0.79	1600	6.1								
		X+ SLD/7	0.79	0.79	1600	5.5								
		X- SLD/14	0.79	0.79	1600	5.5								
		Y+ SLD/21	0.79	0.79	1600	5.7								
		Y- SLD/23	0.79	0.79	1600	5.4								
24	49	SLD/1	0.67	0.67	1600	4.3								
		X+ SLD/2	0.67	0.67	1600	3.9								
		X- SLD/11	0.67	0.67	1600	3.9								
		Y+ SLD/18	0.67	0.67	1600	4.0								
		Y- SLD/24	0.67	0.67	1600	3.8								
25	50	SLD/1	0.59	0.59	1600	3.3								
		X+ SLD/8	0.59	0.59	1600	2.9								
		X- SLD/17	0.59	0.59	1600	2.9								
		Y+ SLD/27	0.59	0.59	1600	3.1								
		Y- SLD/33	0.59	0.59	1600	2.9								

VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE												
IDENTIFICATIVO			RISULTATI									
Combinazione N.ro	Tipo Elem.	Elem N.ro	N (t)	Tg(f)/ Gfi/Gr	C/Gc/Gr t/mq	Area mq	Vres (t)	Fh (t)	Verifica Locale	S(Vres) (t)	S(Fh) (t)	Verifica Globale
A1 / 24	PIASTRA	1	0.29	0.405	0.00	0.277	0.12	0.05	OK	0.12	0.05	OK
	PIASTRA	2	0.13	0.405	0.00	0.095	0.05	0.02	OK	0.17	0.07	
	PIASTRA	3	0.21	0.405	0.00	0.125	0.08	0.04	OK	0.26	0.11	
	PIASTRA	4	0.31	0.405	0.00	0.156	0.12	0.05	OK	0.38	0.16	
	PIASTRA	5	0.29	0.405	0.00	0.125	0.12	0.05	OK	0.50	0.21	
	PIASTRA	21	1.64	0.405	0.00	0.290	0.66	0.28	OK	1.16	0.48	
	PIASTRA	23	0.96	0.405	0.00	0.217	0.39	0.16	OK	1.55	0.64	
	PIASTRA	33	2.03	0.405	0.00	0.436	0.82	0.34	OK	2.37	0.99	
	PIASTRA	34	1.89	0.405	0.00	0.368	0.77	0.32	OK	3.14	1.30	
	PIASTRA	35	0.39	0.405	0.00	0.125	0.16	0.07	OK	3.29	1.37	
	PIASTRA	36	0.61	0.405	0.00	0.156	0.25	0.10	OK	3.54	1.47	
	PIASTRA	37	0.60	0.405	0.00	0.125	0.24	0.10	OK	3.78	1.57	
	PIASTRA	38	0.69	0.405	0.00	0.369	0.28	0.12	OK	4.06	1.69	
	PIASTRA	39	1.00	0.405	0.00	0.369	0.40	0.17	OK	4.47	1.86	
	PIASTRA	40	1.57	0.405	0.00	0.446	0.64	0.27	OK	5.10	2.12	
	PIASTRA	41	2.36	0.405	0.00	1.098	0.96	0.40	OK	6.06	2.52	
	PIASTRA	42	2.74	0.405	0.00	0.915	1.11	0.46	OK	7.17	2.98	
	PIASTRA	43	3.33	0.405	0.00	1.086	1.35	0.56	OK	8.52	3.54	
	PIASTRA	44	2.22	0.405	0.00	1.000	0.90	0.37	OK	9.42	3.92	
	PIASTRA	45	1.13	0.405	0.00	0.652	0.46	0.19	OK	9.87	4.11	
	PIASTRA	46	1.32	0.405	0.00	0.656	0.54	0.22	OK	10.41	4.33	
	PIASTRA	47	2.15	0.405	0.00	0.656	0.87	0.36	OK	11.28	4.69	
	PIASTRA	48	2.62	0.405	0.00	0.618	1.06	0.44	OK	12.34	5.13	
	PIASTRA	49	1.12	0.405	0.00	0.453	0.45	0.19	OK	12.79	5.32	
	PIASTRA	50	1.54	0.405	0.00	0.344	0.62	0.26	OK	13.42	5.58	

PORTANZA GLOBALE PIASTRE - MOLTIPLICATORI DI COLLASSO - SLU											
Comb N.ro	DRENATE				NON DRENATE				RISULTATI		
	Risult (t)	Resist (t)	Moltip. Collasso	%Pl. Moll	Risult (t)	Resist (t)	Moltip. Collasso	%Pl. Moll	Moltip. Minimo	STATUS (m)	
A1 / 1	51	51	1.000	0					1.000	OK	
A1 / 2	33	33	1.000	0						OK	
A1 / 3	33	33	1.000	0						OK	
A1 / 4	33	33	1.000	0						OK	
A1 / 5	33	33	1.000	0						OK	
A1 / 6	33	33	1.000	0						OK	
A1 / 7	33	33	1.000	0						OK	
A1 / 8	33	33	1.000	0						OK	
A1 / 9	33	33	1.000	0						OK	
A1 / 10	33	33	1.000	0						OK	
A1 / 11	33	33	1.000	0						OK	
A1 / 12	33	33	1.000	0						OK	
A1 / 13	33	33	1.000	0						OK	
A1 / 14	33	33	1.000	0						OK	
A1 / 15	33	33	1.000	0						OK	
A1 / 16	33	33	1.000	0						OK	
A1 / 17	33	33	1.000	0						OK	
A1 / 18	33	33	1.000	0						OK	
A1 / 19	33	33	1.000	0						OK	
A1 / 20	33	33	1.000	0						OK	
A1 / 21	33	33	1.000	0						OK	
A1 / 22	33	33	1.000	0						OK	
A1 / 23	33	33	1.000	0						OK	
A1 / 24	33	33	1.000	0						OK	
A1 / 25	33	33	1.000	0						OK	
A1 / 26	33	33	1.000	0						OK	
A1 / 27	33	33	1.000	0						OK	
A1 / 28	33	33	1.000	0						OK	
A1 / 29	33	33	1.000	0						OK	
A1 / 30	33	33	1.000	0						OK	
A1 / 31	33	33	1.000	0						OK	
A1 / 32	33	33	1.000	0						OK	
A1 / 33	33	33	1.000	0						OK	

PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.: A1/1

DRENATE			NON DRENATE			DRENATE			NON DRENATE			DRENATE			NON DRENATE		
Nodo3d N.ro	SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI	Nodo3d N.ro	SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI	Nodo3d N.ro	SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI	Nodo3d N.ro	SpostZ (cm)	SpostZ/ SpostEI
1	-0.051	ELAST.			2	-0.049	ELAST.			3	-0.049	ELAST.					
4	-0.051	ELAST.			5	-0.055	ELAST.			21	-0.052	ELAST.					
23	-0.049	ELAST.			33	-0.046	ELAST.			34	-0.047	ELAST.					
35	-0.052	ELAST.			36	-0.050	ELAST.			37	-0.050	ELAST.					
38	-0.048	ELAST.			39	-0.046	ELAST.			40	-0.047	ELAST.					
41	-0.043	ELAST.			42	-0.043	ELAST.			43	-0.043	ELAST.					
44	-0.043	ELAST.			45	-0.047	ELAST.			46	-0.048	ELAST.					
47	-0.048	ELAST.			48	-0.048	ELAST.			49	-0.052	ELAST.					
50	-0.045	ELAST.															

PORTANZA GLOBALE PIASTRE - MOLTIPLICATORI DI COLLASSO - SLD

Comb N.ro	DRENATE				NON DRENATE				RISULTATI		
	Risult (t)	Resist (t)	Moltip. Collasso	%Pl. Moll	Risult (t)	Resist (t)	Moltip. Collasso	%Pl. Moll	Moltip. Minimo	STATUS (m)	
A1 / 2	33	33	1.000	0					1.000	OK	
A1 / 3	33	33	1.000	0						OK	
A1 / 4	33	33	1.000	0						OK	
A1 / 5	33	33	1.000	0						OK	
A1 / 6	33	33	1.000	0						OK	
A1 / 7	33	33	1.000	0						OK	
A1 / 8	33	33	1.000	0						OK	
A1 / 9	33	33	1.000	0						OK	
A1 / 10	33	33	1.000	0						OK	
A1 / 11	33	33	1.000	0						OK	
A1 / 12	33	33	1.000	0						OK	
A1 / 13	33	33	1.000	0						OK	
A1 / 14	33	33	1.000	0						OK	
A1 / 15	33	33	1.000	0						OK	
A1 / 16	33	33	1.000	0						OK	
A1 / 17	33	33	1.000	0						OK	
A1 / 18	33	33	1.000	0						OK	
A1 / 19	33	33	1.000	0						OK	
A1 / 20	33	33	1.000	0						OK	
A1 / 21	33	33	1.000	0						OK	
A1 / 22	33	33	1.000	0						OK	
A1 / 23	33	33	1.000	0						OK	
A1 / 24	33	33	1.000	0						OK	
A1 / 25	33	33	1.000	0						OK	
A1 / 26	33	33	1.000	0						OK	
A1 / 27	33	33	1.000	0						OK	
A1 / 28	33	33	1.000	0						OK	
A1 / 29	33	33	1.000	0						OK	
A1 / 30	33	33	1.000	0						OK	
A1 / 31	33	33	1.000	0						OK	
A1 / 32	33	33	1.000	0						OK	
A1 / 33	33	33	1.000	0						OK	

PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.: SLD/2

DRENATE			NON DRENATE			DRENATE			NON DRENATE			DRENATE			NON DRENATE		
Nodo3d N.ro	SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI	Nodo3d N.ro	SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI	Nodo3d N.ro	SpostZ (cm)	SpostZ/ SpostEI	SpostZ (cm)	SpostZ/ SpostEI	Nodo3d N.ro	SpostZ (cm)	SpostZ/ SpostEI
1	-0.028	ELAST.			2	-0.031	ELAST.			3	-0.034	ELAST.					
4	-0.039	ELAST.			5	-0.045	ELAST.			21	-0.039	ELAST.					
23	-0.022	ELAST.			33	-0.025	ELAST.			34	-0.032	ELAST.					
35	-0.042	ELAST.			36	-0.040	ELAST.			37	-0.039	ELAST.					
38	-0.025	ELAST.			39	-0.023	ELAST.			40	-0.022	ELAST.					
41	-0.025	ELAST.			42	-0.024	ELAST.			43	-0.028	ELAST.					
44	-0.029	ELAST.			45	-0.030	ELAST.			46	-0.034	ELAST.					
47	-0.037	ELAST.			48	-0.036	ELAST.			49	-0.041	ELAST.					
50	-0.027	ELAST.															

CEDIMENTI ELASTICI ED EDOMETRICI															
Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm	Filo N.ro	Combinaz N.ro	Ced.El. cm	Ced.Ed. cm
1	Rare 1	0.50	0.34	2	Rare 1	0.56	0.39	3	Rare 1	0.53	0.37	4	Rare 1	0.57	0.39
	Freq 1	0.47	0.33		Freq 1	0.54	0.37		Freq 1	0.51	0.35		Freq 1	0.54	0.38
	Perm 1	0.45	0.31		Perm 1	0.51	0.36		Perm 1	0.49	0.34		Perm 1	0.52	0.36
	MAX.	0.50	0.34		MAX.	0.56	0.39		MAX.	0.53	0.37		MAX.	0.57	0.39
5	Rare 1	0.65	0.45	6	Rare 1	0.65	0.45	7	Rare 1	0.65	0.45	10	Rare 1	0.66	0.46
	Freq 1	0.62	0.43		Freq 1	0.63	0.43		Freq 1	0.62	0.43		Freq 1	0.63	0.44
	Perm 1	0.60	0.41		Perm 1	0.60	0.41		Perm 1	0.60	0.41		Perm 1	0.60	0.42
	MAX.	0.65	0.45		MAX.	0.65	0.45		MAX.	0.65	0.45		MAX.	0.66	0.46
11	Rare 1	0.65	0.45	12	Rare 1	0.65	0.45	16	Rare 1	0.63	0.43	17	Rare 1	0.69	0.48
	Freq 1	0.62	0.43		Freq 1	0.62	0.43		Freq 1	0.60	0.42		Freq 1	0.66	0.46
	Perm 1	0.59	0.41		Perm 1	0.59	0.41		Perm 1	0.57	0.40		Perm 1	0.63	0.44
	MAX.	0.65	0.45		MAX.	0.65	0.45		MAX.	0.63	0.43		MAX.	0.69	0.48
18	Rare 1	0.67	0.46	19	Rare 1	0.65	0.45	20	Rare 1	0.67	0.46	21	Rare 1	0.66	0.46
	Freq 1	0.64	0.44		Freq 1	0.62	0.43		Freq 1	0.64	0.44		Freq 1	0.63	0.43
	Perm 1	0.61	0.42		Perm 1	0.59	0.41		Perm 1	0.61	0.42		Perm 1	0.60	0.41
	MAX.	0.67	0.46		MAX.	0.65	0.45		MAX.	0.67	0.46		MAX.	0.66	0.46
22	Rare 1	0.82	0.57	23	Rare 1	0.79	0.54	24	Rare 1	0.80	0.55	25	Rare 1	0.79	0.55
	Freq 1	0.78	0.54		Freq 1	0.75	0.52		Freq 1	0.76	0.53		Freq 1	0.76	0.52
	Perm 1	0.75	0.52		Perm 1	0.71	0.49		Perm 1	0.72	0.50		Perm 1	0.72	0.50
	MAX.	0.82	0.57		MAX.	0.79	0.54		MAX.	0.80	0.55		MAX.	0.79	0.55
26	Rare 1	0.80	0.56	27	Rare 1	0.82	0.56	28	Rare 1	0.83	0.57	29	Rare 1	0.82	0.56
	Freq 1	0.77	0.53		Freq 1	0.78	0.54		Freq 1	0.79	0.55		Freq 1	0.78	0.54
	Perm 1	0.74	0.51		Perm 1	0.75	0.52		Perm 1	0.75	0.52		Perm 1	0.74	0.51
	MAX.	0.80	0.56		MAX.	0.82	0.56		MAX.	0.83	0.57		MAX.	0.82	0.56
30	Rare 1	0.75	0.52												
	Freq 1	0.72	0.49												
	Perm 1	0.68	0.47												
	MAX.	0.75	0.52												

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 1																	
Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq
1	0.2	0.35	2	0.2	0.36	3	0.4	0.40	4	0.2	0.37	5	0.4	0.46	6	0.4	0.41
	0.3	0.35		0.3	0.36		0.5	0.21		0.3	0.37		0.5	0.25		0.5	0.24
	0.4	0.34		0.4	0.36		0.6	0.17		0.4	0.36		0.6	0.23		0.6	0.21
	0.5	0.34		0.5	0.35		0.7	0.15		0.5	0.36		0.7	0.21		0.7	0.20
	0.6	0.17		0.6	0.35		0.8	0.13		0.6	0.35		0.8	0.19		0.8	0.19
	0.7	0.13		0.7	0.16		0.9	0.12		0.7	0.17		0.9	0.17		0.9	0.18
	0.8	0.11		0.8	0.13		1.0	0.12		0.8	0.14		1.0	0.16		1.0	0.17
	0.9	0.10		0.9	0.12		1.1	0.11		0.9	0.12		1.1	0.15		1.1	0.17
	1.0	0.10		1.0	0.11		1.2	0.10		1.0	0.11		1.2	0.15		1.2	0.16
	1.1	0.09		1.1	0.10		1.3	0.10		1.1	0.10		1.3	0.14		1.3	0.16
	1.2	0.09		1.2	0.09		1.4	0.10		1.2	0.10		1.4	0.13		1.4	0.15
	1.3	0.09		1.3	0.09		1.5	0.09		1.3	0.09		1.5	0.13		1.5	0.14
	1.4	0.08		1.4	0.09		1.6	0.09		1.4	0.09		1.6	0.12		1.6	0.14
	1.5	0.08		1.5	0.09		1.7	0.09		1.5	0.09		1.7	0.12		1.7	0.13
	1.6	0.08		1.6	0.08		1.8	0.08		1.6	0.08		1.8	0.12		1.8	0.13
	1.7	0.08		1.7	0.08		1.9	0.08		1.7	0.08		1.9	0.11		1.9	0.13
	1.8	0.08		1.8	0.08		2.0	0.06		1.8	0.08		2.0	0.09		2.0	0.10
	1.9	0.08		1.9	0.08		2.1	0.06		1.9	0.08		2.1	0.09		2.1	0.09
	2.0	0.06		2.0	0.08		2.2	0.06		2.0	0.08		2.2	0.09		2.2	0.08
	2.1	0.06		2.1	0.08		2.3	0.05		2.1	0.08		2.3	0.08		2.3	0.07
	2.2	0.06		2.2	0.07		2.4	0.05		2.2	0.07		2.4	0.08		2.4	0.07
	2.3	0.05		2.3	0.06		2.5	0.05		2.3	0.06		2.5	0.06		2.5	0.07
	2.4	0.05		2.4	0.06		2.6	0.04		2.4	0.06		2.6	0.05		2.6	0.06
	2.5	0.05		2.5	0.05		2.7	0.04		2.5	0.05		2.7	0.05		2.7	0.05
	2.6	0.05		2.6	0.05		2.8	0.04		2.6	0.05		2.8	0.05		2.8	0.05
	2.7	0.05		2.7	0.05		2.9	0.04		2.7	0.05		2.9	0.05		2.9	0.05
	2.8	0.05		2.8	0.04		3.0	0.03		2.8	0.04		3.0	0.03		3.0	0.05
	2.9	0.05		2.9	0.04		3.1	0.03		2.9	0.03		3.1	0.03		3.1	0.03
	3.0	0.02		3.0	0.03		3.2	0.02		3.0	0.03		3.2	0.03		3.2	0.01
	3.1	0.02		3.1	0.03		0.0	0.00		3.1	0.03		0.0	0.00		0.0	0.00
7	0.5	0.41	10	0.6	0.35	11	0.6	0.34	12	0.2	0.36	16	0.4	0.40	17	0.5	0.45
	0.6	0.20		0.7	0.35		0.7	0.21		0.3	0.36		0.5	0.21		0.6	0.24
	0.7	0.19		0.8	0.20		0.8	0.18		0.4	0.36		0.6	0.19		0.7	0.22
	0.8	0.18		0.9	0.18		0.9	0.17		0.5	0.36		0.7	0.18		0.8	0.20
	0.9	0.17		1.0	0.16		1.0	0.16		0.6	0.36		0.8	0.17		0.9	0.19
	1.0	0.16		1.1	0.15		1.1	0.15		0.7	0.22		0.9	0.17		1.0	0.18
	1.1	0.16		1.2	0.14		1.2	0.14		0.8	0.18		1.0	0.16		1.1	0.17
	1.2	0.15		1.3	0.13		1.3	0.14		0.9	0.16		1.1	0.15		1.2	0.17
	1.3	0.14		1.4	0.13		1.4	0.14		1.0	0.15		1.2	0.15		1.3	0.16
	1.4	0.14		1.5	0.12		1.5	0.13		1.1	0.14		1.3	0.14		1.4	0.15

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 1

Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq
	1.5	0.13		1.6	0.12		1.6	0.13		1.2	0.14		1.4	0.14		1.5	0.15
	1.6	0.13		1.7	0.12		1.7	0.13		1.3	0.13		1.5	0.13		1.6	0.14
	1.7	0.12		1.8	0.11		1.8	0.12		1.4	0.13		1.6	0.13		1.7	0.14
	1.8	0.12		1.9	0.11		1.9	0.12		1.5	0.12		1.7	0.12		1.8	0.13
	1.9	0.12		2.0	0.11		2.0	0.11		1.6	0.12		1.8	0.12		1.9	0.13
	2.0	0.11		2.1	0.09		2.1	0.11		1.7	0.12		1.9	0.12		2.0	0.10
	2.1	0.09		2.2	0.08		2.2	0.11		1.8	0.11		2.0	0.11		2.1	0.09
	2.2	0.08		2.3	0.08		2.3	0.10		1.9	0.11		2.1	0.09		2.2	0.08
	2.3	0.07		2.4	0.08		2.4	0.09		2.0	0.11		2.2	0.08		2.3	0.08
	2.4	0.07		2.5	0.07		2.5	0.07		2.1	0.10		2.3	0.07		2.4	0.07
	2.5	0.07		2.6	0.06		2.6	0.07		2.2	0.10		2.4	0.07		2.5	0.07
	2.6	0.06		2.7	0.06		2.7	0.06		2.3	0.09		2.5	0.07		2.6	0.06
	2.7	0.06		2.8	0.04		2.8	0.04		2.4	0.08		2.6	0.06		2.7	0.06
	2.8	0.05		2.9	0.04		2.9	0.04		2.5	0.08		2.7	0.06		2.8	0.05
	2.9	0.05		3.0	0.04		3.0	0.04		2.6	0.06		2.8	0.05		2.9	0.05
	3.0	0.04		3.1	0.02		3.1	0.02		2.7	0.05		2.9	0.05		3.0	0.05
	3.1	0.04		3.2	0.02		3.2	0.02		2.8	0.04		3.0	0.04		3.1	0.03
	3.2	0.02		2.9	0.04		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.02
	3.0	0.02		3.0	0.03		3.2	0.02		3.0	0.03		3.2	0.01		3.2	0.01
	3.1	0.02		3.1	0.03		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
18	0.4	0.46	19	0.2	0.35	20	0.6	0.35	21	0.6	0.35	22	1.0	0.34	23	0.9	0.33
	0.5	0.28		0.3	0.35		0.7	0.22		0.7	0.35		1.1	0.26		1.0	0.26
	0.6	0.25		0.4	0.35		0.8	0.19		0.8	0.20		1.2	0.24		1.1	0.24
	0.7	0.22		0.5	0.35		0.9	0.17		0.9	0.17		1.3	0.23		1.2	0.22
	0.8	0.20		0.6	0.35		1.0	0.16		1.0	0.16		1.4	0.22		1.3	0.21
	0.9	0.18		0.7	0.22		1.1	0.15		1.1	0.15		1.5	0.21		1.4	0.20
	1.0	0.17		0.8	0.18		1.2	0.15		1.2	0.14		1.6	0.20		1.5	0.19
	1.1	0.16		0.9	0.16		1.3	0.14		1.3	0.13		1.7	0.19		1.6	0.19
	1.2	0.15		1.0	0.15		1.4	0.14		1.4	0.13		1.8	0.18		1.7	0.18
	1.3	0.14		1.1	0.14		1.5	0.13		1.5	0.12		1.9	0.18		1.8	0.17
	1.4	0.14		1.2	0.13		1.6	0.13		1.6	0.12		2.0	0.15		1.9	0.17
	1.5	0.13		1.3	0.13		1.7	0.13		1.7	0.11		2.1	0.14		2.0	0.14
	1.6	0.13		1.4	0.13		1.8	0.12		1.8	0.11		2.2	0.13		2.1	0.14
	1.7	0.12		1.5	0.12		1.9	0.12		1.9	0.11		2.3	0.12		2.2	0.13
	1.8	0.12		1.6	0.12		2.0	0.12		2.0	0.10		2.4	0.11		2.3	0.13
	1.9	0.11		1.7	0.12		2.1	0.11		2.1	0.10		2.5	0.11		2.4	0.12
	2.0	0.10		1.8	0.11		2.2	0.11		2.2	0.09		2.6	0.10		2.5	0.10
	2.1	0.09		1.9	0.11		2.3	0.09		2.3	0.08		2.7	0.09		2.6	0.09
	2.2	0.09		2.0	0.11		2.4	0.09		2.4	0.08		2.8	0.07		2.7	0.09
	2.3	0.08		2.1	0.10		2.5	0.07		2.5	0.07		2.9	0.03		2.8	0.06
	2.4	0.08		2.2	0.10		2.6	0.07		2.6	0.06		3.0	0.02		2.9	0.03
	2.5	0.06		2.3	0.09		2.7	0.07		2.7	0.06		3.1	0.02		3.0	0.02
	2.6	0.05		2.4	0.09		2.8	0.04		2.8	0.04		3.2	0.02		3.1	0.02
	2.7	0.05		2.5	0.08		2.9	0.04		2.9	0.04		2.7	0.06		3.2	0.02
	2.8	0.05		2.6	0.07		3.0	0.02		3.0	0.03		2.8	0.05		2.9	0.05
	2.9	0.05		2.7	0.05		3.1	0.02		3.1	0.03		2.9	0.05		3.0	0.05
	3.0	0.03		2.8	0.04		3.2	0.02		3.2	0.02		3.0	0.04		3.1	0.03
	3.1	0.03		2.9	0.04		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.02
	3.2	0.03		3.0	0.02		3.2	0.02		3.0	0.03		3.2	0.01		3.2	0.01
	3.1	0.02		3.1	0.02		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
24	1.0	0.33	25	0.9	0.33	26	0.7	0.38	27	0.8	0.38	28	0.7	0.39	29	0.7	0.39
	1.1	0.26		1.0	0.28		0.8	0.38		0.9	0.27		0.8	0.39		0.8	0.39
	1.2	0.24		1.1	0.26		0.9	0.26		1.0	0.24		0.9	0.27		0.9	0.26
	1.3	0.23		1.2	0.24		1.0	0.23		1.1	0.22		1.0	0.24		1.0	0.23
	1.4	0.22		1.3	0.23		1.1	0.21		1.2	0.21		1.1	0.22		1.1	0.21
	1.5	0.21		1.4	0.23		1.2	0.19		1.3	0.19		1.2	0.21		1.2	0.19
	1.6	0.20		1.5	0.22		1.3	0.18		1.4	0.18		1.3	0.20		1.3	0.18
	1.7	0.19		1.6	0.21		1.4	0.17		1.5	0.18		1.4	0.19		1.4	0.17
	1.8	0.18		1.7	0.20		1.5	0.17		1.6	0.17		1.5	0.18		1.5	0.17
	1.9	0.18		1.8	0.19		1.6	0.16		1.7	0.16		1.6	0.17		1.6	0.16
	2.0	0.14		1.9	0.19		1.7	0.15		1.8	0.16		1.7	0.16		1.7	0.15
	2.1	0.13		2.0	0.14		1.8	0.15		1.9	0.15		1.8	0.16		1.8	0.15
	2.2	0.12		2.1	0.13		1.9	0.14		2.0	0.12		1.9	0.15		1.9	0.14
	2.3	0.11		2.2	0.12		2.0	0.12		2.1	0.11		2.0	0.12		2.0	0.12
	2.4	0.11		2.3	0.11		2.1	0.12		2.2	0.11		2.1	0.11		2.1	0.12
	2.5	0.10		2.4	0.11		2.2	0.11		2.3	0.10		2.2	0.11		2.2	0.11
	2.6	0.10		2.5	0.10		2.3	0.10		2.4	0.10		2.3	0.10		2.3	0.11
	2.7	0.09		2.6	0.10		2.4	0.10		2.5	0.09		2.4	0.10		2.4	0.10
	2.8	0.07		2.7	0.09		2.5	0.10		2.6	0.09		2.5	0.09		2.5	0.10
	2.9	0.03		2.8	0.08		2.6	0.09		2.7	0.08		2.6	0.09		2.6	0.09
	3.0	0.02		2.9	0.03		2.7	0.08		2.8	0.07		2.7	0.08		2.7	0.08
	3.1	0.02		3.0	0.02		2.8	0.07		2.9	0.04		2.8	0.07		2.8	0.07
	3.2	0.02		3.1	0.02		2.9	0.04		3.0	0.03		2.9	0.04		2.9	0.04
	2.7	0.05		3.2	0.01		3.0	0.03		3.1	0.03		3.0	0.03		3.0	0.03
	2.8	0.05		2.6	0.07		3.1	0.03		3.2	0.02		3.1	0.03		3.1	0.02
	2.9	0.05		2.7	0.05		3.2	0.02		3.1	0.03		3.2	0.02		3.2	0.02
	3.0	0.03		2.8	0.04		3.2	0.02		3.2	0.02		3.0	0.04		3.1	0.03
	3.1	0.03		2.9	0.04		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.02

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Rare 1																	
Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq
	3.2	0.03		3.0	0.02		3.2	0.02		3.0	0.03		3.2	0.01		3.2	0.01
	3.1	0.02		3.1	0.02		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
30	0.6	0.40															
	0.7	0.40															
	0.8	0.25															
	0.9	0.22															
	1.0	0.19															
	1.1	0.18															
	1.2	0.17															
	1.3	0.16															
	1.4	0.15															
	1.5	0.14															
	1.6	0.13															
	1.7	0.13															
	1.8	0.12															
	1.9	0.12															
	2.0	0.10															
	2.1	0.09															
	2.2	0.09															
	2.3	0.09															
	2.4	0.08															
	2.5	0.08															
	2.6	0.08															
	2.7	0.08															
	2.8	0.06															
	2.9	0.04															
	3.0	0.03															
	3.1	0.03															
	3.2	0.02															
	3.1	0.03															
	3.2	0.03															
	3.1	0.02															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 1																	
Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq
1	0.2	0.33	2	0.2	0.35	3	0.4	0.39	4	0.2	0.35	5	0.4	0.44	6	0.4	0.39
	0.3	0.33		0.3	0.34		0.5	0.20		0.3	0.35		0.5	0.24		0.5	0.23
	0.4	0.33		0.4	0.34		0.6	0.16		0.4	0.35		0.6	0.22		0.6	0.20
	0.5	0.32		0.5	0.34		0.7	0.14		0.5	0.34		0.7	0.20		0.7	0.19
	0.6	0.16		0.6	0.33		0.8	0.13		0.6	0.34		0.8	0.18		0.8	0.18
	0.7	0.13		0.7	0.15		0.9	0.12		0.7	0.16		0.9	0.17		0.9	0.17
	0.8	0.11		0.8	0.13		1.0	0.11		0.8	0.13		1.0	0.16		1.0	0.17
	0.9	0.10		0.9	0.11		1.1	0.10		0.9	0.11		1.1	0.15		1.1	0.16
	1.0	0.09		1.0	0.10		1.2	0.10		1.0	0.10		1.2	0.14		1.2	0.15
	1.1	0.09		1.1	0.10		1.3	0.09		1.1	0.10		1.3	0.13		1.3	0.15
	1.2	0.08		1.2	0.09		1.4	0.09		1.2	0.09		1.4	0.13		1.4	0.14
	1.3	0.08		1.3	0.09		1.5	0.09		1.3	0.09		1.5	0.12		1.5	0.14
	1.4	0.08		1.4	0.08		1.6	0.09		1.4	0.08		1.6	0.12		1.6	0.13
	1.5	0.08		1.5	0.08		1.7	0.08		1.5	0.08		1.7	0.11		1.7	0.13
	1.6	0.08		1.6	0.08		1.8	0.08		1.6	0.08		1.8	0.11		1.8	0.12
	1.7	0.07		1.7	0.08		1.9	0.08		1.7	0.08		1.9	0.11		1.9	0.12
	1.8	0.07		1.8	0.08		2.0	0.06		1.8	0.08		2.0	0.09		2.0	0.10
	1.9	0.07		1.9	0.07		2.1	0.06		1.9	0.07		2.1	0.09		2.1	0.08
	2.0	0.06		2.0	0.07		2.2	0.05		2.0	0.07		2.2	0.08		2.2	0.08
	2.1	0.06		2.1	0.07		2.3	0.05		2.1	0.07		2.3	0.08		2.3	0.07
	2.2	0.06		2.2	0.07		2.4	0.05		2.2	0.07		2.4	0.08		2.4	0.07
	2.3	0.05		2.3	0.05		2.5	0.05		2.3	0.06		2.5	0.06		2.5	0.07
	2.4	0.05		2.4	0.05		2.6	0.04		2.4	0.05		2.6	0.05		2.6	0.05
	2.5	0.05		2.5	0.05		2.7	0.04		2.5	0.05		2.7	0.05		2.7	0.05
	2.6	0.05		2.6	0.05		2.8	0.04		2.6	0.05		2.8	0.04		2.8	0.05
	2.7	0.05		2.7	0.05		2.9	0.04		2.7	0.05		2.9	0.04		2.9	0.05
	2.8	0.04		2.8	0.03		3.0	0.03		2.8	0.03		3.0	0.03		3.0	0.04
	2.9	0.04		2.9	0.03		3.1	0.03		2.9	0.03		3.1	0.03		3.1	0.03
	3.0	0.02		3.0	0.03		3.2	0.02		3.0	0.03		3.2	0.03		3.2	0.01
	3.1	0.02		3.1	0.03		0.0	0.00		3.1	0.03		0.0	0.00		0.0	0.00
7	0.5	0.39	10	0.6	0.34	11	0.6	0.32	12	0.2	0.34	16	0.4	0.38	17	0.5	0.42
	0.6	0.20		0.7	0.33		0.7	0.20		0.3	0.34		0.5	0.20		0.6	0.23
	0.7	0.18		0.8	0.19		0.8	0.17		0.4	0.34		0.6	0.18		0.7	0.21
	0.8	0.17		0.9	0.17		0.9	0.16		0.5	0.34		0.7	0.17		0.8	0.19
	0.9	0.16		1.0	0.15		1.0	0.15		0.6	0.34		0.8	0.16		0.9	0.18
	1.0	0.16		1.1	0.14		1.1	0.14		0.7	0.21		0.9	0.16		1.0	0.17
	1.1	0.15		1.2	0.13		1.2	0.14		0.8	0.18		1.0	0.15		1.1	0.17
	1.2	0.14		1.3	0.13		1.3	0.13		0.9	0.16		1.1	0.15		1.2	0.16
	1.3	0.14		1.4	0.12		1.4	0.13		1.0	0.14		1.2	0.14		1.3	0.15
	1.4	0.13		1.5	0.12		1.5	0.13		1.1	0.14		1.3	0.14		1.4	0.15

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 1

Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq
	1.5	0.13		1.6	0.11		1.6	0.12		1.2	0.13		1.4	0.13		1.5	0.14
	1.6	0.12		1.7	0.11		1.7	0.12		1.3	0.13		1.5	0.13		1.6	0.13
	1.7	0.12		1.8	0.11		1.8	0.12		1.4	0.12		1.6	0.12		1.7	0.13
	1.8	0.11		1.9	0.10		1.9	0.11		1.5	0.12		1.7	0.12		1.8	0.13
	1.9	0.11		2.0	0.10		2.0	0.11		1.6	0.11		1.8	0.11		1.9	0.12
	2.0	0.11		2.1	0.08		2.1	0.11		1.7	0.11		1.9	0.11		2.0	0.10
	2.1	0.08		2.2	0.08		2.2	0.10		1.8	0.11		2.0	0.11		2.1	0.08
	2.2	0.07		2.3	0.08		2.3	0.10		1.9	0.11		2.1	0.08		2.2	0.08
	2.3	0.07		2.4	0.07		2.4	0.09		2.0	0.10		2.2	0.07		2.3	0.07
	2.4	0.07		2.5	0.07		2.5	0.07		2.1	0.09		2.3	0.07		2.4	0.07
	2.5	0.06		2.6	0.06		2.6	0.06		2.2	0.09		2.4	0.07		2.5	0.07
	2.6	0.06		2.7	0.06		2.7	0.06		2.3	0.09		2.5	0.06		2.6	0.06
	2.7	0.06		2.8	0.04		2.8	0.04		2.4	0.08		2.6	0.06		2.7	0.05
	2.8	0.05		2.9	0.04		2.9	0.03		2.5	0.07		2.7	0.06		2.8	0.05
	2.9	0.05		3.0	0.03		3.0	0.03		2.6	0.06		2.8	0.05		2.9	0.05
	3.0	0.04		3.1	0.02		3.1	0.02		2.7	0.05		2.9	0.05		3.0	0.04
	3.1	0.04		3.2	0.02		3.2	0.02		2.8	0.04		3.0	0.04		3.1	0.03
	3.2	0.01		2.9	0.03		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.01
	3.0	0.02		3.0	0.03		3.2	0.02		3.0	0.03		3.2	0.01		3.2	0.01
	3.1	0.02		3.1	0.03		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
18	0.4	0.44	19	0.2	0.34	20	0.6	0.34	21	0.6	0.33	22	1.0	0.32	23	0.9	0.31
	0.5	0.27		0.3	0.34		0.7	0.21		0.7	0.33		1.1	0.25		1.0	0.24
	0.6	0.23		0.4	0.34		0.8	0.18		0.8	0.19		1.2	0.23		1.1	0.23
	0.7	0.21		0.5	0.34		0.9	0.16		0.9	0.17		1.3	0.22		1.2	0.21
	0.8	0.19		0.6	0.34		1.0	0.15		1.0	0.15		1.4	0.21		1.3	0.20
	0.9	0.17		0.7	0.21		1.1	0.14		1.1	0.14		1.5	0.20		1.4	0.19
	1.0	0.16		0.8	0.17		1.2	0.14		1.2	0.13		1.6	0.19		1.5	0.18
	1.1	0.15		0.9	0.15		1.3	0.13		1.3	0.13		1.7	0.18		1.6	0.18
	1.2	0.14		1.0	0.14		1.4	0.13		1.4	0.12		1.8	0.18		1.7	0.17
	1.3	0.13		1.1	0.13		1.5	0.13		1.5	0.12		1.9	0.17		1.8	0.16
	1.4	0.13		1.2	0.13		1.6	0.12		1.6	0.11		2.0	0.14		1.9	0.16
	1.5	0.12		1.3	0.12		1.7	0.12		1.7	0.11		2.1	0.13		2.0	0.14
	1.6	0.12		1.4	0.12		1.8	0.12		1.8	0.11		2.2	0.12		2.1	0.13
	1.7	0.12		1.5	0.12		1.9	0.11		1.9	0.10		2.3	0.11		2.2	0.13
	1.8	0.11		1.6	0.11		2.0	0.11		2.0	0.10		2.4	0.11		2.3	0.12
	1.9	0.11		1.7	0.11		2.1	0.11		2.1	0.10		2.5	0.10		2.4	0.11
	2.0	0.09		1.8	0.11		2.2	0.10		2.2	0.08		2.6	0.10		2.5	0.09
	2.1	0.09		1.9	0.10		2.3	0.09		2.3	0.08		2.7	0.09		2.6	0.09
	2.2	0.08		2.0	0.10		2.4	0.09		2.4	0.07		2.8	0.07		2.7	0.09
	2.3	0.08		2.1	0.10		2.5	0.07		2.5	0.07		2.9	0.03		2.8	0.06
	2.4	0.07		2.2	0.10		2.6	0.06		2.6	0.06		3.0	0.02		2.9	0.03
	2.5	0.05		2.3	0.09		2.7	0.06		2.7	0.06		3.1	0.02		3.0	0.02
	2.6	0.05		2.4	0.09		2.8	0.04		2.8	0.04		3.2	0.02		3.1	0.02
	2.7	0.05		2.5	0.08		2.9	0.03		2.9	0.04		2.7	0.06		3.2	0.02
	2.8	0.05		2.6	0.07		3.0	0.02		3.0	0.03		2.8	0.05		2.9	0.05
	2.9	0.04		2.7	0.05		3.1	0.02		3.1	0.02		2.9	0.05		3.0	0.04
	3.0	0.03		2.8	0.03		3.2	0.01		3.2	0.02		3.0	0.04		3.1	0.03
	3.1	0.03		2.9	0.03		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.01
	3.2	0.03		3.0	0.02		3.2	0.02		3.0	0.03		3.2	0.01		3.2	0.01
	3.1	0.02		3.1	0.02		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
24	1.0	0.31	25	0.9	0.31	26	0.7	0.36	27	0.8	0.37	28	0.7	0.38	29	0.7	0.37
	1.1	0.24		1.0	0.26		0.8	0.36		0.9	0.26		0.8	0.37		0.8	0.37
	1.2	0.23		1.1	0.25		0.9	0.24		1.0	0.23		0.9	0.26		0.9	0.24
	1.3	0.22		1.2	0.23		1.0	0.22		1.1	0.21		1.0	0.23		1.0	0.22
	1.4	0.21		1.3	0.22		1.1	0.20		1.2	0.20		1.1	0.21		1.1	0.20
	1.5	0.20		1.4	0.22		1.2	0.19		1.3	0.19		1.2	0.20		1.2	0.19
	1.6	0.19		1.5	0.21		1.3	0.18		1.4	0.18		1.3	0.19		1.3	0.18
	1.7	0.18		1.6	0.20		1.4	0.17		1.5	0.17		1.4	0.18		1.4	0.17
	1.8	0.17		1.7	0.19		1.5	0.16		1.6	0.16		1.5	0.17		1.5	0.16
	1.9	0.17		1.8	0.19		1.6	0.15		1.7	0.15		1.6	0.16		1.6	0.15
	2.0	0.14		1.9	0.18		1.7	0.15		1.8	0.15		1.7	0.16		1.7	0.15
	2.1	0.12		2.0	0.13		1.8	0.14		1.9	0.14		1.8	0.15		1.8	0.14
	2.2	0.12		2.1	0.12		1.9	0.13		2.0	0.11		1.9	0.14		1.9	0.13
	2.3	0.11		2.2	0.11		2.0	0.12		2.1	0.11		2.0	0.11		2.0	0.12
	2.4	0.10		2.3	0.11		2.1	0.11		2.2	0.10		2.1	0.11		2.1	0.11
	2.5	0.10		2.4	0.10		2.2	0.11		2.3	0.10		2.2	0.10		2.2	0.11
	2.6	0.10		2.5	0.10		2.3	0.10		2.4	0.09		2.3	0.10		2.3	0.10
	2.7	0.09		2.6	0.09		2.4	0.09		2.5	0.09		2.4	0.09		2.4	0.10
	2.8	0.07		2.7	0.09		2.5	0.09		2.6	0.08		2.5	0.09		2.5	0.09
	2.9	0.03		2.8	0.07		2.6	0.09		2.7	0.08		2.6	0.08		2.6	0.08
	3.0	0.02		2.9	0.02		2.7	0.08		2.8	0.07		2.7	0.08		2.7	0.08
	3.1	0.02		3.0	0.02		2.8	0.06		2.9	0.04		2.8	0.07		2.8	0.06
	3.2	0.02		3.1	0.02		2.9	0.04		3.0	0.03		2.9	0.04		2.9	0.04
	2.7	0.05		3.2	0.01		3.0	0.03		3.1	0.02		3.0	0.03		3.0	0.03
	2.8	0.05		2.6	0.07		3.1	0.02		3.2	0.02		3.1	0.02		3.1	0.02
	2.9	0.04		2.7	0.05		3.2	0.02		3.1	0.02		3.2	0.02		3.2	0.02
	3.0	0.03		2.8	0.03		3.2	0.01		3.2	0.02		3.0	0.04		3.1	0.03
	3.1	0.03		2.9	0.03		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.01

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Freq 1																	
Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq
	3.2	0.03		3.0	0.02		3.2	0.02		3.0	0.03		3.2	0.01		3.2	0.01
	3.1	0.02		3.1	0.02		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
30	0.6	0.39															
	0.7	0.38															
	0.8	0.24															
	0.9	0.21															
	1.0	0.19															
	1.1	0.17															
	1.2	0.16															
	1.3	0.15															
	1.4	0.14															
	1.5	0.13															
	1.6	0.13															
	1.7	0.12															
	1.8	0.12															
	1.9	0.11															
	2.0	0.09															
	2.1	0.09															
	2.2	0.09															
	2.3	0.08															
	2.4	0.08															
	2.5	0.08															
	2.6	0.08															
	2.7	0.07															
	2.8	0.06															
	2.9	0.04															
	3.0	0.03															
	3.1	0.03															
	3.2	0.02															
	3.1	0.03															
	3.2	0.03															
	3.1	0.02															

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Perm 1																	
Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq
1	0.2	0.32	2	0.2	0.33	3	0.4	0.37	4	0.2	0.34	5	0.4	0.42	6	0.4	0.37
	0.3	0.31		0.3	0.33		0.5	0.19		0.3	0.33		0.5	0.23		0.5	0.22
	0.4	0.31		0.4	0.33		0.6	0.15		0.4	0.33		0.6	0.21		0.6	0.19
	0.5	0.31		0.5	0.32		0.7	0.13		0.5	0.33		0.7	0.19		0.7	0.18
	0.6	0.15		0.6	0.32		0.8	0.12		0.6	0.32		0.8	0.17		0.8	0.17
	0.7	0.12		0.7	0.15		0.9	0.11		0.7	0.15		0.9	0.16		0.9	0.17
	0.8	0.10		0.8	0.12		1.0	0.11		0.8	0.12		1.0	0.15		1.0	0.16
	0.9	0.09		0.9	0.11		1.1	0.10		0.9	0.11		1.1	0.14		1.1	0.15
	1.0	0.09		1.0	0.10		1.2	0.09		1.0	0.10		1.2	0.13		1.2	0.15
	1.1	0.08		1.1	0.09		1.3	0.09		1.1	0.09		1.3	0.13		1.3	0.14
	1.2	0.08		1.2	0.09		1.4	0.09		1.2	0.09		1.4	0.12		1.4	0.14
	1.3	0.08		1.3	0.08		1.5	0.08		1.3	0.08		1.5	0.12		1.5	0.13
	1.4	0.08		1.4	0.08		1.6	0.08		1.4	0.08		1.6	0.11		1.6	0.13
	1.5	0.07		1.5	0.08		1.7	0.08		1.5	0.08		1.7	0.11		1.7	0.12
	1.6	0.07		1.6	0.08		1.8	0.08		1.6	0.08		1.8	0.11		1.8	0.12
	1.7	0.07		1.7	0.07		1.9	0.08		1.7	0.07		1.9	0.10		1.9	0.11
	1.8	0.07		1.8	0.07		2.0	0.05		1.8	0.07		2.0	0.09		2.0	0.09
	1.9	0.07		1.9	0.07		2.1	0.05		1.9	0.07		2.1	0.08		2.1	0.08
	2.0	0.06		2.0	0.07		2.2	0.05		2.0	0.07		2.2	0.08		2.2	0.08
	2.1	0.06		2.1	0.07		2.3	0.05		2.1	0.07		2.3	0.08		2.3	0.07
	2.2	0.05		2.2	0.07		2.4	0.05		2.2	0.07		2.4	0.07		2.4	0.07
	2.3	0.05		2.3	0.05		2.5	0.05		2.3	0.06		2.5	0.06		2.5	0.06
	2.4	0.05		2.4	0.05		2.6	0.04		2.4	0.05		2.6	0.05		2.6	0.05
	2.5	0.04		2.5	0.05		2.7	0.04		2.5	0.05		2.7	0.04		2.7	0.05
	2.6	0.04		2.6	0.05		2.8	0.04		2.6	0.05		2.8	0.04		2.8	0.05
	2.7	0.04		2.7	0.05		2.9	0.04		2.7	0.05		2.9	0.04		2.9	0.05
	2.8	0.04		2.8	0.03		3.0	0.03		2.8	0.03		3.0	0.03		3.0	0.04
	2.9	0.04		2.9	0.03		3.1	0.03		2.9	0.03		3.1	0.03		3.1	0.03
	3.0	0.02		3.0	0.02		3.2	0.02		3.0	0.02		3.2	0.03		3.2	0.01
	3.1	0.02		3.1	0.02		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
7	0.5	0.38	10	0.6	0.32	11	0.6	0.31	12	0.2	0.33	16	0.4	0.36	17	0.5	0.40
	0.6	0.19		0.7	0.32		0.7	0.19		0.3	0.33		0.5	0.19		0.6	0.22
	0.7	0.17		0.8	0.18		0.8	0.16		0.4	0.32		0.6	0.17		0.7	0.20
	0.8	0.16		0.9	0.16		0.9	0.15		0.5	0.32		0.7	0.16		0.8	0.18
	0.9	0.16		1.0	0.14		1.0	0.14		0.6	0.32		0.8	0.16		0.9	0.17
	1.0	0.15		1.1	0.13		1.1	0.14		0.7	0.20		0.9	0.15		1.0	0.17
	1.1	0.14		1.2	0.13		1.2	0.13		0.8	0.17		1.0	0.15		1.1	0.16
	1.2	0.14		1.3	0.12		1.3	0.13		0.9	0.15		1.1	0.14		1.2	0.15
	1.3	0.13		1.4	0.12		1.4	0.12		1.0	0.14		1.2	0.14		1.3	0.14
	1.4	0.13		1.5	0.11		1.5	0.12		1.1	0.13		1.3	0.13		1.4	0.14

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Perm 1

Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq	Filo N.ro	Quota m	Tens. kg/cmq
	1.5	0.12		1.6	0.11		1.6	0.12		1.2	0.12		1.4	0.13		1.5	0.13
	1.6	0.12		1.7	0.10		1.7	0.11		1.3	0.12		1.5	0.12		1.6	0.13
	1.7	0.11		1.8	0.10		1.8	0.11		1.4	0.12		1.6	0.12		1.7	0.12
	1.8	0.11		1.9	0.10		1.9	0.11		1.5	0.11		1.7	0.11		1.8	0.12
	1.9	0.11		2.0	0.10		2.0	0.10		1.6	0.11		1.8	0.11		1.9	0.12
	2.0	0.10		2.1	0.08		2.1	0.10		1.7	0.11		1.9	0.11		2.0	0.09
	2.1	0.08		2.2	0.08		2.2	0.10		1.8	0.10		2.0	0.10		2.1	0.08
	2.2	0.07		2.3	0.07		2.3	0.09		1.9	0.10		2.1	0.08		2.2	0.08
	2.3	0.07		2.4	0.07		2.4	0.08		2.0	0.10		2.2	0.07		2.3	0.07
	2.4	0.06		2.5	0.06		2.5	0.07		2.1	0.09		2.3	0.07		2.4	0.07
	2.5	0.06		2.6	0.06		2.6	0.06		2.2	0.09		2.4	0.06		2.5	0.06
	2.6	0.06		2.7	0.06		2.7	0.06		2.3	0.08		2.5	0.06		2.6	0.05
	2.7	0.05		2.8	0.04		2.8	0.04		2.4	0.07		2.6	0.06		2.7	0.05
	2.8	0.05		2.9	0.04		2.9	0.03		2.5	0.07		2.7	0.05		2.8	0.05
	2.9	0.05		3.0	0.03		3.0	0.03		2.6	0.06		2.8	0.05		2.9	0.05
	3.0	0.04		3.1	0.02		3.1	0.02		2.7	0.04		2.9	0.05		3.0	0.04
	3.1	0.04		3.2	0.02		3.2	0.02		2.8	0.04		3.0	0.04		3.1	0.03
	3.2	0.01		2.9	0.03		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.01
	3.0	0.02		3.0	0.02		3.2	0.02		3.0	0.03		3.2	0.01		3.2	0.01
	3.1	0.02		3.1	0.02		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
18	0.4	0.42	19	0.2	0.32	20	0.6	0.32	21	0.6	0.32	22	1.0	0.30	23	0.9	0.30
	0.5	0.26		0.3	0.32		0.7	0.20		0.7	0.31		1.1	0.24		1.0	0.23
	0.6	0.22		0.4	0.32		0.8	0.17		0.8	0.18		1.2	0.22		1.1	0.21
	0.7	0.20		0.5	0.32		0.9	0.15		0.9	0.16		1.3	0.21		1.2	0.20
	0.8	0.18		0.6	0.32		1.0	0.14		1.0	0.14		1.4	0.20		1.3	0.19
	0.9	0.16		0.7	0.20		1.1	0.14		1.1	0.13		1.5	0.19		1.4	0.18
	1.0	0.15		0.8	0.17		1.2	0.13		1.2	0.13		1.6	0.18		1.5	0.18
	1.1	0.14		0.9	0.15		1.3	0.13		1.3	0.12		1.7	0.17		1.6	0.17
	1.2	0.13		1.0	0.14		1.4	0.12		1.4	0.12		1.8	0.17		1.7	0.16
	1.3	0.13		1.1	0.13		1.5	0.12		1.5	0.11		1.9	0.16		1.8	0.16
	1.4	0.12		1.2	0.12		1.6	0.12		1.6	0.11		2.0	0.13		1.9	0.15
	1.5	0.12		1.3	0.12		1.7	0.11		1.7	0.10		2.1	0.12		2.0	0.13
	1.6	0.11		1.4	0.11		1.8	0.11		1.8	0.10		2.2	0.11		2.1	0.13
	1.7	0.11		1.5	0.11		1.9	0.11		1.9	0.10		2.3	0.11		2.2	0.12
	1.8	0.11		1.6	0.11		2.0	0.10		2.0	0.09		2.4	0.10		2.3	0.12
	1.9	0.10		1.7	0.11		2.1	0.10		2.1	0.09		2.5	0.10		2.4	0.11
	2.0	0.09		1.8	0.10		2.2	0.10		2.2	0.08		2.6	0.09		2.5	0.09
	2.1	0.08		1.9	0.10		2.3	0.08		2.3	0.07		2.7	0.08		2.6	0.09
	2.2	0.08		2.0	0.10		2.4	0.08		2.4	0.07		2.8	0.07		2.7	0.08
	2.3	0.08		2.1	0.09		2.5	0.07		2.5	0.06		2.9	0.03		2.8	0.06
	2.4	0.07		2.2	0.09		2.6	0.06		2.6	0.06		3.0	0.02		2.9	0.03
	2.5	0.05		2.3	0.08		2.7	0.06		2.7	0.06		3.1	0.02		3.0	0.02
	2.6	0.05		2.4	0.08		2.8	0.04		2.8	0.04		3.2	0.02		3.1	0.02
	2.7	0.05		2.5	0.07		2.9	0.03		2.9	0.04		2.7	0.05		3.2	0.02
	2.8	0.04		2.6	0.07		3.0	0.02		3.0	0.03		2.8	0.05		2.9	0.05
	2.9	0.04		2.7	0.04		3.1	0.02		3.1	0.02		2.9	0.05		3.0	0.04
	3.0	0.03		2.8	0.03		3.2	0.01		3.2	0.02		3.0	0.04		3.1	0.03
	3.1	0.03		2.9	0.03		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.01
	3.2	0.03		3.0	0.02		3.2	0.02		3.0	0.03		3.2	0.01		3.2	0.01
	3.1	0.02		3.1	0.02		0.0	0.00		3.1	0.02		0.0	0.00		0.0	0.00
24	1.0	0.30	25	0.9	0.30	26	0.7	0.35	27	0.8	0.35	28	0.7	0.36	29	0.7	0.35
	1.1	0.23		1.0	0.25		0.8	0.34		0.9	0.24		0.8	0.36		0.8	0.35
	1.2	0.22		1.1	0.23		0.9	0.23		1.0	0.22		0.9	0.25		0.9	0.23
	1.3	0.21		1.2	0.22		1.0	0.21		1.1	0.20		1.0	0.22		1.0	0.21
	1.4	0.20		1.3	0.21		1.1	0.19		1.2	0.19		1.1	0.20		1.1	0.19
	1.5	0.19		1.4	0.21		1.2	0.18		1.3	0.18		1.2	0.19		1.2	0.18
	1.6	0.18		1.5	0.20		1.3	0.17		1.4	0.17		1.3	0.18		1.3	0.17
	1.7	0.17		1.6	0.19		1.4	0.16		1.5	0.16		1.4	0.17		1.4	0.16
	1.8	0.17		1.7	0.18		1.5	0.15		1.6	0.15		1.5	0.16		1.5	0.15
	1.9	0.16		1.8	0.18		1.6	0.14		1.7	0.15		1.6	0.15		1.6	0.14
	2.0	0.13		1.9	0.17		1.7	0.14		1.8	0.14		1.7	0.15		1.7	0.14
	2.1	0.12		2.0	0.12		1.8	0.13		1.9	0.14		1.8	0.14		1.8	0.13
	2.2	0.11		2.1	0.11		1.9	0.13		2.0	0.11		1.9	0.14		1.9	0.13
	2.3	0.10		2.2	0.11		2.0	0.11		2.1	0.10		2.0	0.11		2.0	0.11
	2.4	0.10		2.3	0.10		2.1	0.11		2.2	0.10		2.1	0.10		2.1	0.11
	2.5	0.09		2.4	0.10		2.2	0.10		2.3	0.09		2.2	0.10		2.2	0.10
	2.6	0.09		2.5	0.09		2.3	0.09		2.4	0.09		2.3	0.09		2.3	0.10
	2.7	0.08		2.6	0.09		2.4	0.09		2.5	0.08		2.4	0.09		2.4	0.09
	2.8	0.06		2.7	0.08		2.5	0.09		2.6	0.08		2.5	0.08		2.5	0.09
	2.9	0.03		2.8	0.07		2.6	0.08		2.7	0.08		2.6	0.08		2.6	0.08
	3.0	0.02		2.9	0.02		2.7	0.08		2.8	0.06		2.7	0.08		2.7	0.08
	3.1	0.02		3.0	0.02		2.8	0.06		2.9	0.03		2.8	0.07		2.8	0.06
	3.2	0.02		3.1	0.02		2.9	0.04		3.0	0.02		2.9	0.03		2.9	0.04
	2.7	0.05		3.2	0.01		3.0	0.03		3.1	0.02		3.0	0.02		3.0	0.03
	2.8	0.04		2.6	0.07		3.1	0.02		3.2	0.02		3.1	0.02		3.1	0.02
	2.9	0.04		2.7	0.04		3.2	0.02		3.1	0.02		3.2	0.02		3.2	0.02
	3.0	0.03		2.8	0.03		3.2	0.01		3.2	0.02		3.0	0.04		3.1	0.03
	3.1	0.03		2.9	0.03		3.1	0.03		2.9	0.03		3.1	0.04		3.2	0.01

STATO TENSIONALE NEL TERRENO - COMBINAZIONE:Perm 1

Filo N.ro	Quota m	Tens. kg/cmq		Filo N.ro	Quota m	Tens. kg/cmq		Filo N.ro	Quota m	Tens. kg/cmq		Filo N.ro	Quota m	Tens. kg/cmq		Filo N.ro	Quota m	Tens. kg/cmq		Filo N.ro	Quota m	Tens. kg/cmq
	3.2	0.03			3.0	0.02			3.2	0.02			3.0	0.03			3.2	0.01			3.2	0.01
	3.1	0.02			3.1	0.02			0.0	0.00			3.1	0.02			0.0	0.00			0.0	0.00
30	0.6	0.37																				
	0.7	0.37																				
	0.8	0.23																				
	0.9	0.20																				
	1.0	0.18																				
	1.1	0.16																				
	1.2	0.15																				
	1.3	0.14																				
	1.4	0.13																				
	1.5	0.13																				
	1.6	0.12																				
	1.7	0.12																				
	1.8	0.11																				
	1.9	0.11																				
	2.0	0.09																				
	2.1	0.09																				
	2.2	0.08																				
	2.3	0.08																				
	2.4	0.08																				
	2.5	0.07																				
	2.6	0.07																				
	2.7	0.07																				
	2.8	0.06																				
	2.9	0.04																				
	3.0	0.03																				
	3.1	0.02																				
	3.2	0.02																				
	3.1	0.03																				
	3.2	0.03																				
	3.1	0.02																				

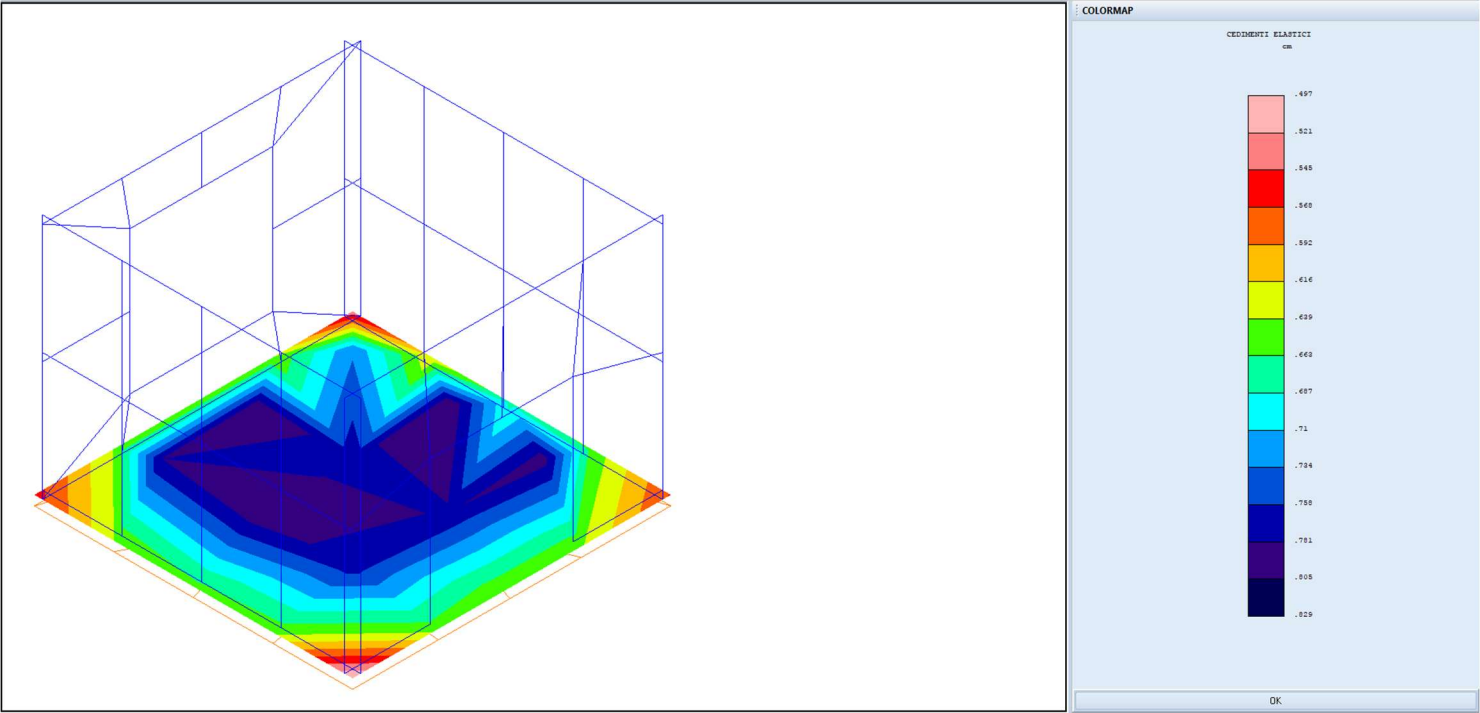


Figura 1 - Cedimenti elastici.

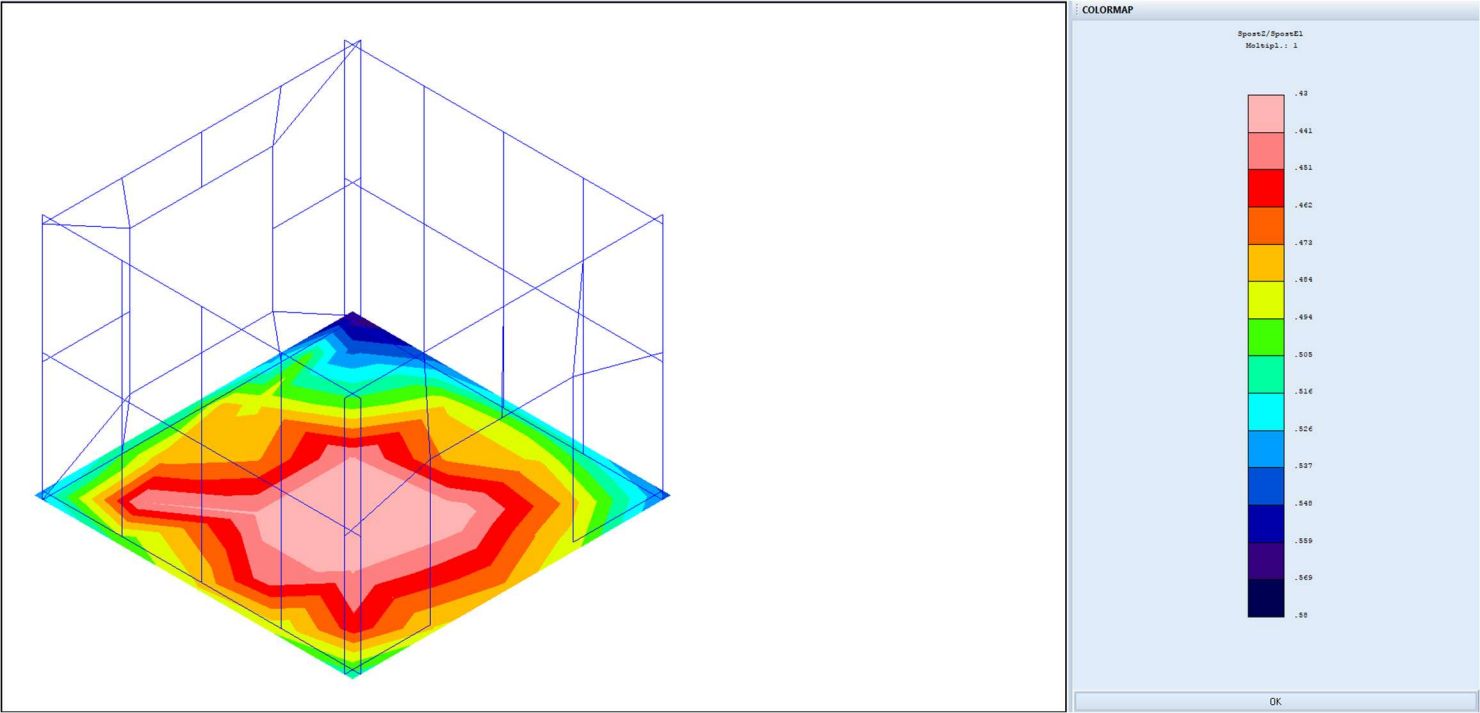


Figura 2 - Spost Z/Spost Elast.