LISTATO DI CALCOLO – FASE 1

RICERCA SUPERFICIE CRITICA CIRCOLARE

Analisi di stabilità dei pendii con: JANBU (1956)

Lat./Long.	44.417087/9.129564
Normativa	NTC 2008
Numero di strati	3.0
Numero dei conci	10.0
Grado di sicurezza ritenuto accettabile	1.1
Coefficiente parziale resistenza	1.1
Analisi	Condizione drenata
Superficie di forma circolare	

Maglia dei Centri

Ascissa vertice sinistro inferiore xi	0.0 m
Ordinata vertice sinistro inferiore yi	80.0 m
Ascissa vertice destro superiore xs	160.0 m
Ordinata vertice destro superiore ys	350.0 m
Passo di ricerca	10.0
Numero di celle lungo x	20.0
Numero di celle lungo y	20.0

Coefficienti sismici [N.T.C.]

Dati generali

Tipo opera:	2 - Opere ordinarie
Classe d'uso:	Classe II
Vita nominale:	50.0 [anni]
Vita di riferimento:	50.0 [anni]

Parametri sismici su sito di riferimento

Categoria sottosuolo:	C
Categoria topografica:	T3

S.L. Stato limite	TR Tempo ritorno [anni]	ag [m/s²]	F0 [-]	TC* [sec]
S.L.O.	30.0	0.28	2.5	0.2
S.L.D.	50.0	0.35	2.55	0.22
S.L.V.	475.0	0.85	2.51	0.28
S.L.C.	975.0	1.13	2.48	0.29

Coefficienti sismici orizzontali e verticali

Opera: Stabilità dei pendii e Fondazioni

S.L. Stato limite	amax [m/s²]	beta [-]	kh [-]	kv [sec]
S.L.O.	0.504	0.2	0.0103	0.0051
S.L.D.	0.63	0.2	0.0128	0.0064
S.L.V.	1.53	0.2	0.0312	0.0156
S.L.C.	2.034	0.24	0.0498	0.0249

Coefficiente azione sismica orizzontale	0.0312
Coefficiente azione sismica verticale	0.015 6

Vertici profilo

N	X m	y m
1	0.0	0.0
2	5.02	2.5
3	10.01	2.0
4	15.11	1.47
5	16.36	1.44
6	18.66	2.93
7	21.06	7.15
8	22.59	7.61
9	26.5	8.1
10	32.75	9.52
11	40.67	11.99
12	40.78	12.48
13	44.43	12.48
14	44.43	18.48
15	61.04	24.74
16	67.46	24.74
17	67.46	28.74
18	67.51	28.74
19	71.75	31.66
20	75.51	31.66
21	75.76	32.31
22	78.83	32.31
23	78.83	36.31
24	83.49	38.64
25	88.14	38.73
26	88.17	38.8
27	91.9	38.8
28	91.9	42.8
29	95.26	44.2
30	103.27	44.2
31	103.27	48.2
32	115.54	50.26
33	121.1	50.26
34	121.47	51.0
35	124.03	51.0
36	124.03	55.0
37	131.76	58.51
38	140.51	58.51
39	140.51	62.51
40	145.87	64.54
41	152.55	64.54
42	193.09	64.54
43	193.09	65.24
44	194.09	65.24
45	200.34	67.49
46	203.83	67.49
47	203.83	70.09
48	204.83	70.09
49	211.16	72.53
50	214.58	72.53
51	214.58	75.13
52	215.58	75.13
53	221.76	77.58
54	225.19	77.58
55	225.19	80.18
56	226.19	80.18
57	232.35	82.54
58	235.79	82.54
59	235.79	85.14
60	236.79	85.14
61	242.59	87.91
62	246.31	87.87
63	246.38	90.51
64	247.41	90.51
65	252.88	92.62
66	254.69	92.62
67	254.7	95.22

68	255.7	95.22
69	261.93	97.54
70	265.24	97.54
71	265.24	100.14
72	266.24	100.14
73	272.02	102.54
74	276.14	102.54
75	276.14	105.14
76	277.14	105.14
77	282.79	107.56
78	287.09	107.56
79	287.09	110.16
80	288.09	110.16
81	296.09	112.54
82	299.97	112.54
83	299.97	115.14
84	300.97	115.14
85	307.85	117.6
86	315.6	117.6
87	315.6	120.2
88	316.6	120.2
89	324.51	122.58
90	329.47	122.58
91	329.47	125.18
92	330.47	125.18
93	339.18	127.6
94	344.88	127.6
95	344.88	130.2
96	345.88	130.2
97	355.93	132.19
98	355.93	132.19
99	433.8	133.0 2

Falda

Nr.	X (m)	y (m)
1	0.0	0.0
2	5.02	2.5
3	10.01	2.0
4	15.11	1.47
5	16.36	1.44
6	18.66	2.93
7	20.45	6.09
8	102.78	20.1
9	102.8	20.1
10	159.6	43.29
11	159.6	43.29
12	239.69	73.41
13	264.1	78.29
14	294.34	93.97
15	330.58	113.29
16	330.6	113.29
17	363.07	118.29
18	363.1	118.29
19	414.23	131.4 5

Vertici strato 1

N	X (m)	y (m)
1	0.0	0.0
2	5.02	2.5
3	5.02	2.5
4	10.01	2.0
5	15.11	1.47
6	16.36	1.44
7	18.66	2.93
8	21.06	7.15
9	22.59	7.61
10	26.5	8.1
11	32.75	9.52

12	42.61	12.6
13	48.71	13.21
14	53.26	14.02
15	58.12	15.53
16	64.29	17.64
17	70.5	18.02
18	81.13	21.02
19	93.9	23.5
20	101.03	24.85
21	109.98	30.03
22	118.88	31.91
23	128.0	36.58
24	139.9	40.13
25	142.92	40.79
26	159.6	43.29
27	172.1	48.29
28	184.1	53.29
29	192.1	58.29
30	200.1	63.29
31	216.6	68.29
32	239.1	73.29
33	264.1	78.29
34	274.1	83.29
35	284.1	88.29
36	292.6	93.29
37	300.6	98.29
38	308.1	103.29
39	318.1	108.29
40	330.6	113.29
41	363.1	118.29
42	370.6	123.29
43	375.1	128.29
44	375.1	128.29
45	375.1	128.29
46	433.8	133.02
47	433.8	133.0 2

Vertici strato 2

N	X (m)	y (m)
1	0.0	0.0
2	5.02	2.5
3	5.02	2.5
4	10.01	2.0
5	15.11	1.47
6	16.36	1.44
7	18.66	2.93
8	19.56	4.52
9	22.25	5.7
10	66.68	13.34
11	100.36	19.1
12	118.09	19.1
13	161.53	39.47
14	200.09	51.87
15	224.02	63.38
16	261.26	69.58
17	289.18	80.21
18	310.9	95.71
19	344.58	107.22
20	376.94	110.76
21	433.8	116.05

Coefficienti parziali per i parametri geotecnici del terreno

Tangente angolo di resistenza al taglio	1.25
Coesione efficace	1.25
Coesione non drenata	1.4
Riduzione parametri geotecnici terreno	Si

Stratigrafia

c: coesione; cu: coesione non drenata; Fi: Angolo di attrito; G: Peso Specifico; Gs: Peso Specifico Saturo; K: Modulo di Winkler

Strato	c (kg/cm²)	cu (kg/cm²)	Fi (°)	G (Kg/m³)	Gs (Kg/m³)	K (Kg/cm³)	Litologia	
1	0		29.6	1837	2000	0.00		
2	0		26.51	1695	1800	0.00		
3	0.4352		33.31	2402	2500	0.00		

Muri di sostegno - Caratteristiche geometriche

N°	x (m)	y (m)	Base mensola a valle (m)	Base mensola a monte (m)	Altezza muro (m)	Spessore testa (m)	Spessore base (m)	Peso specifico (Kg/m³)
1	44.43	12.48	0	0.1	6	2	3.9	2800
2	67.46	24.74	0	0.1	4	3	4	2800
3	78.83	32.31	0	0.1	4	3	4	2800
4	91.9	38.8	0	0.1	4	3	4	2800
5	124.03	51	0	0.1	4	3	4	2800
6	140.51	58.51	0	0.1	4	3	4	2800
7	103.27	44.2	0	0.1	4	3	4	280 0

Pali...

N°	x (m)	y (m)	Diametro (m)	Lunghezza (m)	Inclinazione (°)	Interasse (m)
1	41.44008	10.97868	0.2	6	90	3.6
2	43.54914	10.97868	0.2	6	90	3.6

Risultati analisi pendio [NTC 2008: [A2+M2+R2]]

Fs minimo individuato	0.96
Ascissa centro superficie	144.0 m
Ordinata centro superficie	350.0 m
Raggio superficie	283.23 m

Numero di superfici esaminate....(356)

N°	Xo	Yo	Ro	Fs
1	28.0	86.8	81.8	1.59
2	32.0	80.0	75.6	1.55
3	40.0	80.0	75.6	1.45
4	44.0	86.8	81.8	1.50
5	52.0	86.8	81.8	1.58
6	60.0	86.8	64.0	1.53
7	64.0	80.0	58.9	1.44
8	72.0	80.0	67.2	1.46
9	76.0	86.8	72.9	1.56
10	80.0	80.0	67.2	1.41
11	84.0	86.8	72.9	1.51
12	88.0	80.0	67.2	1.56
13	92.0	86.8	72.7	1.72
14	96.0	80.0	67.2	1.91
15	100.0	86.8	64.0	1.51
16	104.0	80.0	58.9	1.45
17	108.0	86.8	55.1	1.77

18	112.0	80.0	42.1	1.81
19	116.0	86.8	72.9	2.34
20	120.0	80.0	33.7	1.70
21	124.0	86.8	63.7	2.57
22	128.0	80.0	33.7	2.03
23	132.0	86.8	45.9	2.29
24	136.0	80.0	42.0	2.44
25	140.0	86.8	45.7	3.01
26	144.0	80.0	16.9	2.70
27	148.0	86.8	81.7	2.41
28	152.0	80.0	67.2	2.65
29	156.0	86.8	64.0	2.87
30	160.0	80.0	75.6	2.75
31	28.0	100.3	83.3	1.27
32	32.0	93.5	87.8	1.52
33	36.0	100.3	93.8	1.43
34	40.0	93.5	87.8	1.42
35	52.0	100.3	93.8	1.55
36	60.0	100.3	93.8	1.56
37	64.0	93.5	58.9	1.30
38	72.0	93.5	78.2	1.32
39	76.0	100.3	83.4	1.20
40	80.0	93.5	78.1	1.36
41	84.0	100.3	83.4	1.44
42	88.0	93.5	78.2	1.49
43	92.0	100.3	83.4	1.55
44	96.0	93.5	68.5	1.56
45	100.0	100.3	93.8	2.05
46	104.0	93.5	58.5	1.80
47	112.0	93.5	78.1	2.31
48	116.0	100.3	73.0	1.91
49	120.0	93.5	68.5	2.38
50	124.0	100.3	52.2	2.22
51	128.0	93.5	49.2	2.16
52	132.0	100.3	52.2	2.80
53	136.0	93.5	87.8	2.53
54	140.0	100.3	62.6	2.64
55	144.0	93.5	68.5	3.15
56	148.0	100.3	93.8	2.64
57	152.0	93.5	78.2	2.83
58	156.0	100.3	83.4	2.24
59	160.0	93.5	68.3	2.89
60	28.0	113.8	105.6	1.17
61	32.0	107.0	100.0	1.43
62	44.0	113.8	106.1	1.47
63	48.0	107.0	100.0	1.54
64	52.0	113.8	106.1	1.53
65	56.0	107.0	100.0	1.51
66	60.0	113.8	106.1	1.53
67	64.0	107.0	100.0	1.49
68	68.0	113.8	94.3	1.27
69	72.0	107.0	88.9	1.22
70	76.0	113.8	94.4	1.31
71	80.0	107.0	88.8	1.32
72	84.0	113.8	94.4	1.37
73	88.0	107.0	88.9	1.41
74	96.0	107.0	100.0	2.09
75	100.0	113.8	106.1	2.18
76	104.0	107.0	99.9	2.25
77	108.0	113.8	106.1	2.29
78	112.0	107.0	77.9	1.94
79	116.0	113.8	82.8	2.03
80	120.0	107.0	77.9	2.00
81	132.0	113.8	106.1	2.18
82	136.0	107.0	100.0	2.10

83	140.0	113.8	94.4	2.22
84	144.0	107.0	66.8	3.17
85	148.0	113.8	71.1	3.63
86	152.0	107.0	100.0	1.98
87	156.0	113.8	106.1	2.29
88	160.0	107.0	88.9	2.42
89	36.0	127.3	118.2	1.36
90	40.0	120.5	112.1	1.48
91	48.0	120.5	99.7	1.49
92	52.0	127.3	118.2	1.42
93	56.0	120.5	99.7	1.38
94	60.0	127.3	118.2	1.48
95	64.0	120.5	99.7	1.33
96	68.0	127.3	105.0	1.45
97	72.0	120.5	99.7	1.39
98	76.0	127.3	105.1	1.43
99	80.0	120.5	99.6	1.42
100	92.0	127.3	118.2	2.08
101	100.0	127.3	92.0	1.92
102	104.0	120.5	87.2	1.90
103	108.0	127.3	105.1	1.99
104	112.0	120.5	87.2	2.08
105	116.0	127.3	78.9	2.29
106	124.0	127.3	78.9	2.58
107	128.0	120.5	74.8	2.53
108	132.0	127.3	92.0	2.31
109	136.0	120.5	112.1	2.15
110	140.0	127.3	118.2	1.98
111	156.0	127.3	118.2	2.16
112	160.0	120.5	99.7	2.32
113	32.0	134.0	110.6	1.16
114	44.0	140.8	130.4	1.37
115	48.0	134.0	124.4	1.44
116	52.0	140.8	130.9	1.46
117	56.0	134.0	124.4	1.47
118	88.0	134.0	97.1	1.85
119	92.0	140.8	130.4	2.12
120	96.0	134.0	97.1	1.97
121	100.0	140.8	116.3	1.64
122	104.0	134.0	110.5	1.82
123	108.0	140.8	116.5	2.14
124	112.0	134.0	110.8	2.14
125	120.0	134.0	124.4	2.31
126	124.0	140.8	101.7	2.60
127	128.0	134.0	97.1	2.44
128	132.0	140.8	116.2	2.34
129	136.0	134.0	124.4	1.82
130	140.0	140.8	130.4	2.21
131	144.0	134.0	124.4	2.12
132	152.0	134.0	97.1	2.23
133	156.0	140.8	103.9	2.43
134	160.0	134.0	124.4	2.10
135	32.0	147.5	123.5	1.30
136	36.0	154.3	128.5	1.50
137	40.0	147.5	136.9	1.34
138	72.0	147.5	106.3	1.91
139	92.0	154.3	126.9	1.58
140	96.0	147.5	121.7	1.65
141	100.0	154.3	127.4	1.72
142	104.0	147.5	121.3	1.71
143	108.0	154.3	142.7	2.30
144	112.0	147.5	122.5	2.20
145	116.0	154.3	143.0	2.25
146	128.0	147.5	92.0	3.91
147	132.0	154.3	127.9	2.27

148	136.0	147.5	121.4	2.16
149	140.0	154.3	142.4	1.99
150	144.0	147.5	136.6	2.03
151	148.0	154.3	112.7	1.94
152	152.0	147.5	109.2	2.58
153	156.0	154.3	115.1	2.30
154	160.0	147.5	137.2	2.12
155	68.0	167.8	137.6	1.71
156	76.0	167.8	137.7	1.60
157	80.0	161.0	132.1	1.60
158	84.0	167.8	138.1	1.68
159	88.0	161.0	133.1	1.61
160	92.0	167.8	154.7	2.20
161	96.0	161.0	132.5	1.72
162	100.0	167.8	155.1	2.17
163	104.0	161.0	148.6	2.03
164	108.0	167.8	154.9	2.23
165	112.0	161.0	148.8	2.25
166	116.0	167.8	154.9	2.01
167	120.0	161.0	100.6	1.68
168	124.0	167.8	137.7	2.22
169	128.0	161.0	132.5	2.20
170	132.0	167.8	138.4	1.88
171	136.0	161.0	133.2	2.22
172	140.0	167.8	154.8	1.84
173	144.0	161.0	115.7	2.73
174	148.0	167.8	103.7	8.98
175	152.0	161.0	117.9	1.91
176	156.0	167.8	139.2	2.02
177	160.0	161.0	119.9	2.07
178	4.0	181.3	167.3	1.33
179	44.0	181.3	148.6	1.58
180	84.0	181.3	167.0	2.10
181	88.0	174.5	161.2	2.18
182	92.0	181.3	130.2	1.42
183	96.0	174.5	160.9	2.14
184	100.0	181.3	167.2	2.09
185	104.0	174.5	125.2	4.01
186	108.0	181.3	167.0	2.08
187	112.0	174.5	161.0	2.12
188	116.0	181.3	148.9	1.84
189	120.0	174.5	143.5	1.99
190	124.0	181.3	148.5	2.15
191	128.0	174.5	143.0	2.01
192	136.0	174.5	126.7	3.33
193	140.0	181.3	166.9	1.77
194	148.0	181.3	149.0	1.93
195	152.0	174.5	143.3	1.93
196	160.0	174.5	111.1	16.15
197	4.0	194.8	179.5	1.34
198	48.0	188.0	154.0	1.80
199	80.0	188.0	172.9	2.09
200	84.0	194.8	178.9	2.00
201	88.0	188.0	173.3	2.05
202	92.0	194.8	179.1	1.99
203	96.0	188.0	135.1	1.60
204	100.0	194.8	140.7	1.85
205	104.0	188.0	172.9	2.14
206	108.0	194.8	179.2	1.91
207	112.0	188.0	173.5	1.87
208	116.0	194.8	161.0	1.87
209	120.0	188.0	154.2	2.07
210	124.0	194.8	139.7	4.15
211	140.0	194.8	139.8	5.45
212	144.0	188.0	173.0	1.83

213	148.0	194.8	160.2	1.86
214	152.0	188.0	135.3	2.37
215	156.0	194.8	139.7	2.34
216	160.0	188.0	135.7	1.90
217	60.0	208.3	171.8	2.79
218	76.0	208.3	191.5	1.87
219	80.0	201.5	185.0	2.07
220	84.0	208.3	191.3	2.01
221	88.0	201.5	164.8	2.13
222	96.0	201.5	185.2	2.07
223	104.0	201.5	185.1	1.95
224	108.0	208.3	191.3	1.88
225	136.0	201.5	185.3	1.87
226	140.0	208.3	191.2	1.80
227	152.0	201.5	146.4	2.52
228	24.0	215.0	196.9	1.47
229	68.0	221.8	203.4	1.48
230	72.0	215.0	197.3	1.58
231	76.0	221.8	203.7	1.56
232	88.0	215.0	197.2	1.93
233	92.0	221.8	203.3	2.10
234	96.0	215.0	197.3	2.00
235	100.0	221.8	203.7	1.67
236	116.0	221.8	161.1	2.21
237	124.0	221.8	181.0	2.07
238	128.0	215.0	175.6	1.80
239	140.0	221.8	203.4	1.76
240	148.0	221.8	158.3	7.83
241	0.0	228.5	210.3	1.22
242	32.0	228.5	209.1	1.46
243	36.0	235.3	215.2	1.49
244	40.0	228.5	209.4	1.47
245	60.0	235.3	216.3	1.47
246	68.0	235.3	215.5	1.49
247	72.0	228.5	209.4	1.53
248	80.0	228.5	209.4	1.73
249	84.0	235.3	215.6	1.84
250	88.0	228.5	209.7	1.90
251	92.0	235.3	215.5	1.73
252	104.0	228.5	209.4	1.80
253	116.0	235.3	193.5	2.21
254	120.0	228.5	187.2	2.12
255	132.0	235.3	215.9	1.76
256	136.0	228.5	164.7	4.83
257	148.0	235.3	191.8	1.76
258	152.0	228.5	186.4	1.65
259	156.0	235.3	192.1	1.64
260	160.0	228.5	187.9	1.54
261	40.0	242.0	221.4	1.50
262	44.0	248.8	227.6	1.63
263	56.0	242.0	198.7	1.10
264	60.0	248.8	228.5	1.56
265	72.0	242.0	221.6	1.56
266	80.0	242.0	221.5	1.82
267	84.0	248.8	227.7	1.87
268	96.0	242.0	221.5	1.62
269	128.0	242.0	221.6	1.72
270	136.0	242.0	222.1	1.72
271	140.0	248.8	202.8	1.38
272	144.0	242.0	197.0	1.30
273	148.0	248.8	203.2	1.47
274	152.0	242.0	197.2	1.53
275	160.0	242.0	197.8	1.52
276	48.0	255.5	233.7	1.64
277	52.0	262.3	240.2	1.58

278	56.0	255.5	234.5	1.56
279	64.0	255.5	208.9	1.31
280	68.0	262.3	239.9	1.54
281	72.0	255.5	233.7	1.49
282	88.0	255.5	234.2	1.59
283	92.0	262.3	213.5	3.50
284	108.0	262.3	213.4	3.28
285	124.0	262.3	239.9	1.66
286	128.0	255.5	207.9	1.75
287	132.0	262.3	240.2	1.64
288	136.0	255.5	209.0	1.48
289	144.0	255.5	207.8	1.35
290	152.0	255.5	209.1	1.45
291	160.0	255.5	233.6	1.92
292	56.0	269.0	246.6	1.62
293	60.0	275.8	252.8	1.66
294	64.0	269.0	246.4	1.57
295	76.0	275.8	224.9	1.69
296	120.0	269.0	219.8	2.29
297	124.0	275.8	252.1	1.66
298	128.0	269.0	245.8	1.65
299	28.0	289.3	263.4	1.78
300	76.0	289.3	235.6	1.44
301	116.0	289.3	264.8	1.66
302	120.0	282.5	258.5	1.66
303	124.0	289.3	264.2	1.64
304	160.0	282.5	258.8	1.90
305	32.0	296.0	269.4	1.66
306	36.0	302.8	275.5	1.70
307	108.0	302.8	276.2	1.63
308	112.0	296.0	270.4	1.61
309	116.0	302.8	276.7	1.66
310	120.0	296.0	270.7	1.65
311	124.0	302.8	276.4	1.69
312	128.0	296.0	240.2	5.96
313	132.0	302.8	246.4	1.79
314	140.0	302.8	246.1	1.44
315	144.0	296.0	240.1	1.41
316	148.0	302.8	246.3	1.28
317	152.0	296.0	241.7	1.23
318	156.0	302.8	247.9	1.21
319	160.0	296.0	242.8	1.22
320	44.0	316.3	287.7	1.83
321	96.0	309.5	250.9	2.08
322	100.0	316.3	288.7	1.62
323	104.0	309.5	282.4	1.62
324	108.0	316.3	288.4	1.62
325	112.0	309.5	282.2	1.59
326	156.0	316.3	289.5	1.88
327	160.0	309.5	254.1	1.12
328	8.0	323.0	294.7	1.64
329	12.0	329.8	300.5	1.75
330	68.0	329.8	300.7	1.48
331	92.0	329.8	300.7	1.55
332	96.0	323.0	294.4	1.64
333	104.0	323.0	294.6	1.57
334	124.0	329.8	267.7	3.88
335	152.0	323.0	295.1	1.87
336	156.0	329.8	301.6	1.89
337	160.0	323.0	295.9	1.90
338	16.0	336.5	306.3	1.88
339	60.0	343.3	313.7	1.76
340	68.0	343.3	312.9	1.65
341	76.0	343.3	313.0	1.42
342	80.0	336.5	306.7	1.37

343	84.0	343.3	312.7	1.31
344	88.0	336.5	307.0	1.63
345	132.0	343.3	278.7	1.07
346	136.0	336.5	274.0	5.31
347	140.0	343.3	278.6	1.46
348	144.0	336.5	306.5	1.87
349	148.0	343.3	278.6	1.85
350	152.0	336.5	307.3	1.88
351	156.0	343.3	313.7	1.91
352	160.0	336.5	308.1	1.93
353	136.0	350.0	284.8	1.26
354	144.0	350.0	283.2	0.96
355	152.0	350.0	319.4	1.89
356	160.0	350.0	282.6	2.26

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CARICO LIMITE PALI

xc = 64.00 yc = 80.00 Rc = 58.856 Fs=1.4381

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 80.00 Rc = 67.237 Fs=1.4085

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 28.00 yc = 100.25 Rc = 83.289 Fs=1.2729

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 36.00 yc = 100.25 Rc = 93.835 Fs=1.4289

Micropali Base x=41.44008 Y=10.97868 Plim=69.1 Kg Sbalzo del palo 5.83 m
Micropali Base x=43.54914 Y=10.97868 Plim=69.1 Kg Sbalzo del palo 5.83 m

CARICO LIMITE PALI

xc = 40.00 yc = 93.50 Rc = 87.838 Fs=1.424

Micropali Base x=41.44008 Y=10.97868 Plim=1502.4 Kg Sbalzo del palo 6.78 m
Micropali Base x=43.54914 Y=10.97868 Plim=1502.4 Kg Sbalzo del palo 6.78 m

CARICO LIMITE PALI

xc = 64.00 yc = 93.50 Rc = 58.852 Fs=1.3026

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 72.00 yc = 93.50 Rc = 78.176 Fs=1.3245

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 100.25 Rc = 83.42 Fs=1.204

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 93.50 Rc = 78.081 Fs=1.3616

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 28.00 yc = 113.75 Rc = 105.552 Fs=1.1705

Micropali Base x=41.44008 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 3.27 m
Micropali Base x=43.54914 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 3.27 m

CARICO LIMITE PALI

xc = 32.00 yc = 107.00 Rc = 99.956 Fs=1.4269

Micropali Base x=41.44008 Y=10.97868 Plim=3140.6 Kg Sbalzo del palo 4.87 m
Micropali Base x=43.54914 Y=10.97868 Plim=3140.6 Kg Sbalzo del palo 4.87 m

CARICO LIMITE PALI

xc = 68.00 yc = 113.75 Rc = 94.314 Fs=1.2695

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 72.00 yc = 107.00 Rc = 88.912 Fs=1.2215

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 113.75 Rc = 94.441 Fs=1.3066

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 107.00 Rc = 88.848 Fs=1.3159

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 113.75 Rc = 94.441 Fs=1.371

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 88.00 yc = 107.00 Rc = 88.912 Fs=1.4061

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 36.00 yc = 127.25 Rc = 118.16 Fs=1.363

Micropali Base x=41.44008 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 3.21 m
Micropali Base x=43.54914 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 3.21 m

CARICO LIMITE PALI

xc = 52.00 yc = 127.25 Rc = 118.16 Fs=1.4238

Micropali Base x=41.44008 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 3.01 m
Micropali Base x=43.54914 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 3.01 m

CARICO LIMITE PALI

xc = 56.00 yc = 120.50 Rc = 99.659 Fs=1.3809

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 64.00 yc = 120.50 Rc = 99.659 Fs=1.3265

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 72.00 yc = 120.50 Rc = 99.659 Fs=1.3886

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 127.25 Rc = 105.07 Fs=1.4331

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 120.50 Rc = 99.614 Fs=1.4194

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 32.00 yc = 134.00 Rc = 110.576 Fs=1.1619

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 44.00 yc = 140.75 Rc = 130.425 Fs=1.3748

Micropali Base x=41.44008 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 2.15 m
Micropali Base x=43.54914 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 2.15 m

CARICO LIMITE PALI

xc = 32.00 yc = 147.50 Rc = 123.457 Fs=1.2986

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 40.00 yc = 147.50 Rc = 136.906 Fs=1.3432

Micropali Base x=41.44008 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 1.86 m
Micropali Base x=43.54914 Y=10.97868 Plim=5253.2 Kg Sbalzo del palo 1.86 m

CARICO LIMITE PALI

xc = 4.00 yc = 181.25 Rc = 167.349 Fs=1.3253

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 92.00 yc = 181.25 Rc = 130.18 Fs=1.4196

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 4.00 yc = 194.75 Rc = 179.507 Fs=1.3432

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 0.00 yc = 228.50 Rc = 210.273 Fs=1.2245

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 56.00 yc = 242.00 Rc = 198.731 Fs=1.1045

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 140.00 yc = 248.75 Rc = 202.778 Fs=1.3784

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 242.00 Rc = 197.039 Fs=1.3016

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 64.00 yc = 255.50 Rc = 208.868 Fs=1.3102

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 255.50 Rc = 207.805 Fs=1.3482

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 289.25 Rc = 235.647 Fs=1.4367

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 296.00 Rc = 240.104 Fs=1.413

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 148.00 yc = 302.75 Rc = 246.287 Fs=1.275

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 152.00 yc = 296.00 Rc = 241.704 Fs=1.2278

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 156.00 yc = 302.75 Rc = 247.887 Fs=1.2072

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 160.00 yc = 296.00 Rc = 242.821 Fs=1.2164

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 160.00 yc = 309.50 Rc = 254.07 Fs=1.1168

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 343.25 Rc = 312.981 Fs=1.4193

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 336.50 Rc = 306.713 Fs=1.368

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 343.25 Rc = 312.653 Fs=1.3075

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 132.00 yc = 343.25 Rc = 278.664 Fs=1.0686

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 136.00 yc = 350.00 Rc = 284.831 Fs=1.2632

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 350.00 Rc = 283.231 Fs=0.9599

Micropali Base x=41.44008 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=43.54914 Y=10.97868 Plim=0.0 Kg Sbalzo del palo 0.00 m