LISTATO DI CALCOLO – FASE 2

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	1.3
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	0.031
Coefficiente azione sismica verticale	0.01 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	40.76	12.37
13	44.15	12.37
14	44.15	18.37
15	61.04	24.74
16	66.08	24.74
17	66.08	28.74
18	67.51	28.74
19	71.75	31.66
20	75.51	31.66
21	75.59	31.87
22	77.96	31.87
23	77.96	35.87
24	82.4	38.1
25	90.21	38.1
26	90.21	42.1
27	94.85	44.03
28	102.28	44.03
29	102.28	48.03
30	115.54	50.26
31	121.1	50.26
32	121.69	51.43
33	124.97	51.43
34	124.97	55.43
35	133.27	58.74
36	141.12	58.74
37	141.12	62.74
38	145.87	64.54
39	152.55	64.54
40	152.55	64.56
41	154.25	64.56
42	154.25	68.56
43	163.1	70.49
44	168.12	70.52
45	168.15	70.6
46	170.12	70.6
47	170.12	74.6
48	179.02	76.51
49	184.03	76.54
50	184.06	76.62
51	186.01	76.62
52	186.01	80.62
53	194.73	82.47
54	199.74	82.5
55	199.89	82.89
56	203.14	82.89
57	203.14	86.89
58	210.56	88.51
59	215.57	88.54
60	215.67	88.8
61	218.41	88.8
62	218.41	92.8
63	226.36	94.51
64	231.37	94.54
65	231.47	94.82
66	234.31	94.82

67	234.31	98.82
68	242.18	100.51
69	247.19	100.54
70	247.19	100.54
71	267.2	100.54
72	272.02	102.54
73	276.14	102.54
74	276.14	105.14
75	277.14	105.14
76	282.79	107.56
77	287.09	107.56
78	287.09	110.16
79	288.09	110.16
80	296.09	112.54
81	299.97	112.54
82	299.97	115.14
83	300.97	115.14
84	307.85	117.6
85	315.6	117.6
86	315.6	120.2
87	316.6	120.2
88	324.51	122.58
89	329.47	122.58
90	329.47	125.18
91	330.47	125.18
92	339.18	127.6
93	344.88	127.6
94	344.88	130.2
95	345.88	130.2
96	355.93	132.19
97	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	22.6
9	102.8	22.6
10	159.6	45.8
11	159.6	45.8
12	294.28	96.44
13	294.29	96.45
14	330.58	115.79
15	330.6	115.8
16	363.07	120.79
17	363.1	120.79
18	414.33	131.46
19	433.8	136.4 5

Vertici strato 1

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	42.61	12.6

12	48.71	13.21
13	53.26	14.02
14	58.12	15.53
15	64.29	17.64
16	70.5	18.02
17	81.13	21.02
18	93.9	23.5
19	101.03	24.85
20	109.98	30.03
21	118.88	31.91
22	128.0	36.58
23	139.9	40.13
24	142.92	40.79
25	159.6	43.29
26	172.1	48.29
27	184.1	53.29
28	192.1	58.29
29	200.1	63.29
30	216.6	68.29
31	239.1	73.29
32	264.1	78.29
33	274.1	83.29
34	284.1	88.29
35	292.6	93.29
36	300.6	98.29
37	308.1	103.29
38	318.1	108.29
39	330.6	113.29
40	363.1	118.29
41	370.6	123.29
42	375.1	128.29
43	375.1	128.29
44	375.1	128.29
45	433.8	133.02
46	439.98	133.0 2

Vertici strato 2

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	19.56	4.52
8	22.25	5.7
9	66.68	13.34
10	100.36	19.1
11	118.09	19.1
12	161.53	39.47
13	200.09	51.87
14	224.02	63.38
15	261.26	69.58
16	289.18	80.21
17	310.9	95.71
18	344.58	107.22
19	376.94	110.76
20	434.11	116.08
21	439.98	116.08

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	44.15	12.37	0	0.1	6	2	3.9	2800
2	77.96	31.87	0	0.1	4	3	4	2800
3	154.25	64.56	0	0.1	4	3	4	2800
4	170.12	70.6	0	0.1	4	3	4	2800
5	186.01	76.62	0	0.1	4	3	4	2800
6	203.14	82.89	0	0.1	4	3	4	2800
7	218.41	88.8	0	0.1	4	3	4	2800
8	234.31	94.82	0	0.1	4	3	4	2800
9	66.08	24.74	0	0.1	4	3	4	2800
10	90.21	38.1	0	0.1	4	3	4	2800
11	102.28	44.03	0	0.1	4	3	4	2800
12	141.12	58.74	0	0.1	4	3	4	2800
13	124.97	51.43	0	0.1	4	3	4	280 0

Pali...

N°	x (m)	y (m)	Diametro (m)	Lunghezza (m)	Inclinazione (°)	Interasse (m)
1	43.47367	11.37152	0.2	6	90	3.6
2	41.34955	11.37152	0.2	6	90	3.6

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

Fs minimo individuato	1.11
Ascissa centro superficie	28.0 m
Ordinata centro superficie	113.75 m
Raggio superficie	105.55 m

Numero di superfici esaminate....(288)

N°	Xo	Yo	Ro	Fs
1	28.0	86.8	81.7	1.61
2	40.0	80.0	59.3	1.26
3	44.0	86.8	81.8	1.49
4	48.0	80.0	75.8	1.57
5	60.0	86.8	81.8	1.51
6	64.0	80.0	59.2	1.45
7	68.0	86.8	81.8	1.61
8	72.0	80.0	67.5	1.47
9	76.0	86.8	72.8	1.52
10	80.0	80.0	67.5	1.63

11	92.0	86.8	72.8	1.66
12	96.0	80.0	67.3	1.74
13	100.0	86.8	63.9	1.35
14	104.0	80.0	59.2	1.34
15	108.0	86.8	54.9	1.63
16	112.0	80.0	51.2	1.53
17	116.0	86.8	72.8	1.79
18	120.0	80.0	59.4	1.77
19	124.0	86.8	63.7	1.28
20	128.0	80.0	51.2	1.26
21	132.0	86.8	45.9	1.53
22	136.0	80.0	42.0	1.54
23	140.0	86.8	63.7	1.72
24	144.0	80.0	50.7	1.66
25	148.0	86.8	72.6	1.95
26	156.0	86.8	37.2	1.74
27	160.0	80.0	50.5	1.79
28	40.0	93.5	87.8	1.45
29	56.0	93.5	87.8	1.55
30	64.0	93.5	87.8	1.59
31	84.0	100.3	83.5	1.30
32	88.0	93.5	78.0	1.44
33	92.0	100.3	73.1	1.48
34	96.0	93.5	68.3	1.39
35	104.0	93.5	87.8	1.79
36	112.0	93.5	78.1	1.68
37	116.0	100.3	83.5	1.53
38	120.0	93.5	58.7	1.39
39	128.0	93.5	49.0	1.44
40	132.0	100.3	52.3	1.63
41	136.0	93.5	49.0	1.65
42	140.0	100.3	73.1	1.70
43	144.0	93.5	39.3	1.68
44	148.0	100.3	62.7	1.36
45	152.0	93.5	58.7	1.39
46	156.0	100.3	52.3	1.46
47	160.0	93.5	48.9	1.53
48	28.0	113.8	105.6	1.11
49	32.0	107.0	100.0	1.45
50	44.0	113.8	94.4	1.44
51	48.0	107.0	100.0	1.49
52	52.0	113.8	106.1	1.52
53	56.0	107.0	100.0	1.56
54	60.0	113.8	94.4	1.42
55	68.0	113.8	94.4	1.27
56	72.0	107.0	88.9	1.25
57	76.0	113.8	94.4	1.28
58	80.0	107.0	88.9	1.18
59	84.0	113.8	71.1	2.54
60	92.0	113.8	106.1	1.66
61	96.0	107.0	100.0	1.68
62	108.0	113.8	94.4	1.47
63	112.0	107.0	88.9	1.76
64	116.0	113.8	82.8	1.20
65	132.0	113.8	71.1	1.56
66	136.0	107.0	66.8	1.49
67	140.0	113.8	71.1	1.60
68	144.0	107.0	66.8	1.49
69	148.0	113.8	59.5	1.87
70	152.0	107.0	88.9	1.81
71	156.0	113.8	82.8	1.72
72	160.0	107.0	55.8	1.65
73	32.0	120.5	112.1	1.37

74	40.0	120.5	112.1	1.47
75	48.0	120.5	99.7	1.54
76	56.0	120.5	87.2	1.41
77	76.0	127.3	105.1	1.40
78	92.0	127.3	92.0	1.62
79	100.0	127.3	92.0	1.56
80	104.0	120.5	87.2	1.56
81	112.0	120.5	99.7	1.52
82	128.0	120.5	74.8	1.44
83	132.0	127.3	78.9	1.60
84	136.0	120.5	112.1	1.67
85	144.0	120.5	74.8	1.51
86	152.0	120.5	87.2	1.74
87	156.0	127.3	92.0	1.68
88	160.0	120.5	87.2	1.79
89	44.0	140.8	130.4	1.37
90	52.0	140.8	131.0	1.39
91	56.0	134.0	124.6	1.39
92	88.0	134.0	97.6	1.90
93	92.0	140.8	130.3	1.62
94	96.0	134.0	124.5	1.57
95	100.0	140.8	130.5	1.69
96	108.0	140.8	116.7	1.24
97	112.0	134.0	110.8	1.40
98	116.0	140.8	101.5	1.44
99	120.0	134.0	84.3	1.74
100	124.0	140.8	102.0	1.59
101	128.0	134.0	97.2	1.39
102	132.0	140.8	117.0	1.71
103	136.0	134.0	124.6	1.73
104	140.0	140.8	130.5	1.83
105	148.0	140.8	103.1	1.30
106	152.0	134.0	97.5	1.67
107	156.0	140.8	87.2	1.71
108	160.0	134.0	97.4	1.73
109	40.0	147.5	136.9	1.39
110	92.0	154.3	126.7	1.29
111	96.0	147.5	136.8	1.66
112	100.0	154.3	127.3	1.21
113	104.0	147.5	121.3	1.21
114	108.0	154.3	142.7	1.74
115	116.0	154.3	143.0	1.71
116	128.0	147.5	121.6	1.72
117	132.0	154.3	127.7	1.62
118	136.0	147.5	122.4	1.71
119	140.0	154.3	142.7	1.75
120	144.0	147.5	106.6	1.24
121	148.0	154.3	112.5	1.26
122	152.0	147.5	107.0	1.45
123	156.0	154.3	111.0	1.32
124	160.0	147.5	107.5	1.67
125	76.0	167.8	137.7	1.45
126	80.0	161.0	132.1	1.41
127	84.0	167.8	138.3	1.39
128	88.0	161.0	132.7	1.30
129	100.0	167.8	155.0	1.65
130	104.0	161.0	148.5	1.65
131	108.0	167.8	154.9	1.71
132	112.0	161.0	148.8	1.72
133	116.0	167.8	154.9	1.72
134	124.0	167.8	137.9	1.46
135	128.0	161.0	132.3	1.64
136	132.0	167.8	121.7	1.42

137	136.0	161.0	149.1	1.83
138	140.0	167.8	121.0	1.49
139	144.0	161.0	116.0	1.34
140	148.0	167.8	121.9	1.34
141	152.0	161.0	116.5	1.36
142	88.0	174.5	161.0	1.60
143	92.0	181.3	129.7	1.36
144	96.0	174.5	161.1	1.64
145	104.0	174.5	160.7	1.63
146	108.0	181.3	167.1	1.69
147	112.0	174.5	161.0	1.70
148	116.0	181.3	148.9	1.31
149	120.0	174.5	143.5	1.52
150	136.0	174.5	161.3	1.76
151	140.0	181.3	167.0	1.78
152	148.0	181.3	149.3	1.75
153	152.0	174.5	143.5	1.74
154	52.0	194.8	160.3	2.14
155	92.0	194.8	159.0	1.51
156	96.0	188.0	135.6	1.58
157	104.0	188.0	153.6	1.41
158	112.0	188.0	155.2	1.32
159	116.0	194.8	161.0	1.22
160	136.0	188.0	173.0	1.76
161	140.0	194.8	140.0	1.52
162	144.0	188.0	172.9	1.74
163	148.0	194.8	140.7	1.60
164	156.0	194.8	139.2	1.62
165	160.0	188.0	135.7	1.53
166	48.0	201.5	164.9	1.50
167	92.0	208.3	191.1	1.55
168	96.0	201.5	185.3	1.55
169	100.0	208.3	191.5	1.53
170	108.0	208.3	191.4	1.57
171	112.0	201.5	185.7	1.66
172	132.0	208.3	170.4	1.49
173	136.0	201.5	165.1	1.68
174	140.0	208.3	191.2	1.71
175	152.0	201.5	145.0	1.57
176	68.0	221.8	203.2	1.14
177	72.0	215.0	197.5	1.19
178	80.0	215.0	197.1	1.35
179	84.0	221.8	203.5	1.46
180	88.0	215.0	197.2	1.50
181	104.0	215.0	197.1	1.58
182	124.0	221.8	181.2	1.38
183	128.0	215.0	175.4	1.29
184	132.0	221.8	203.7	1.70
185	136.0	215.0	197.4	1.67
186	140.0	221.8	203.4	1.74
187	156.0	221.8	180.6	1.69
188	160.0	215.0	176.0	1.64
189	0.0	228.5	210.2	1.22
190	36.0	235.3	215.2	1.42
191	44.0	235.3	215.5	1.32
192	76.0	235.3	215.8	1.26
193	88.0	228.5	209.7	1.41
194	92.0	235.3	215.4	1.54
195	96.0	228.5	209.6	1.53
196	112.0	228.5	187.5	1.51
197	116.0	235.3	193.7	1.50
198	120.0	228.5	187.4	1.44
199	148.0	235.3	191.8	1.67

200	152.0	228.5	186.4	1.74
201	156.0	235.3	191.5	1.68
202	160.0	228.5	186.7	1.62
203	52.0	248.8	228.1	1.24
204	60.0	248.8	228.4	1.21
205	72.0	242.0	221.7	1.23
206	80.0	242.0	221.5	1.30
207	84.0	248.8	227.8	1.35
208	88.0	242.0	221.9	1.49
209	92.0	248.8	227.6	1.53
210	96.0	242.0	221.5	1.52
211	132.0	248.8	227.9	1.65
212	136.0	242.0	222.1	1.75
213	140.0	248.8	202.9	1.37
214	144.0	242.0	196.9	1.46
215	148.0	248.8	203.1	1.48
216	152.0	242.0	197.2	1.55
217	156.0	248.8	202.3	1.66
218	160.0	242.0	197.5	1.63
219	48.0	255.5	233.7	1.30
220	56.0	255.5	234.5	1.28
221	68.0	262.3	239.7	1.19
222	72.0	255.5	233.9	1.15
223	76.0	262.3	240.1	1.28
224	80.0	255.5	233.6	1.28
225	108.0	262.3	213.6	1.52
226	124.0	262.3	213.7	1.48
227	128.0	255.5	207.7	1.42
228	132.0	262.3	213.9	1.56
229	136.0	255.5	209.1	1.45
230	140.0	262.3	213.7	1.39
231	144.0	255.5	207.7	1.35
232	152.0	255.5	208.5	1.53
233	160.0	255.5	233.6	1.74
234	60.0	275.8	252.7	1.30
235	72.0	269.0	246.0	1.13
236	76.0	275.8	224.8	1.66
237	112.0	269.0	219.8	1.53
238	120.0	269.0	219.9	1.46
239	124.0	275.8	252.2	1.68
240	132.0	275.8	252.2	1.74
241	136.0	269.0	219.9	1.40
242	156.0	275.8	251.9	1.72
243	76.0	289.3	235.6	1.44
244	92.0	289.3	234.9	2.31
245	124.0	289.3	264.3	1.64
246	128.0	282.5	257.9	1.64
247	156.0	289.3	234.8	1.45
248	160.0	282.5	258.2	1.74
249	4.0	302.8	276.8	1.49
250	108.0	302.8	276.3	1.50
251	112.0	296.0	270.4	1.61
252	116.0	302.8	276.7	1.68
253	120.0	296.0	270.8	1.68
254	124.0	302.8	246.2	1.74
255	128.0	296.0	240.0	1.73
256	132.0	302.8	246.2	1.73
257	140.0	302.8	246.2	1.74
258	144.0	296.0	240.0	1.64
259	148.0	302.8	246.2	1.63
260	152.0	296.0	241.0	1.53
261	156.0	302.8	276.2	1.74
262	160.0	296.0	240.6	1.41

263	100.0	316.3	288.8	1.56
264	104.0	309.5	282.3	1.53
265	108.0	316.3	288.5	1.51
266	112.0	309.5	282.2	1.49
267	136.0	309.5	252.4	1.76
268	148.0	316.3	288.6	1.73
269	152.0	309.5	282.7	1.74
270	156.0	316.3	288.4	1.76
271	68.0	329.8	300.6	1.25
272	76.0	329.8	300.9	1.20
273	84.0	329.8	300.6	1.37
274	96.0	323.0	294.5	1.57
275	100.0	329.8	301.0	1.53
276	104.0	323.0	294.5	1.52
277	144.0	323.0	294.3	1.74
278	148.0	329.8	300.7	1.73
279	152.0	323.0	294.8	1.74
280	156.0	329.8	267.3	1.58
281	16.0	336.5	306.3	1.91
282	20.0	343.3	312.1	2.06
283	76.0	343.3	313.1	1.22
284	88.0	336.5	307.0	1.50
285	144.0	336.5	306.5	1.76
286	152.0	336.5	273.5	1.62
287	24.0	350.0	318.0	2.21
288	112.0	350.0	284.4	2.33

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CARICO LIMITE PALI

xc = 100.00 yc = 86.75 Rc = 63.856 Fs=1.3488

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 104.00 yc = 80.00 Rc = 59.182 Fs=1.3379

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 100.25 Rc = 83.459 Fs=1.3012

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 96.00 yc = 93.50 Rc = 68.32 Fs=1.391

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 120.00 yc = 93.50 Rc = 58.651 Fs=1.3942

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 148.00 yc = 100.25 Rc = 62.668 Fs=1.3571

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 152.00 yc = 93.50 Rc = 58.728 Fs=1.3922

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 32.00 yc = 120.50 Rc = 112.08 Fs=1.3695

Micropali Base x=43.47367 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 3.47 m
Micropali Base x=41.34955 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 3.47 m

CARICO LIMITE PALI

xc = 76.00 yc = 127.25 Rc = 105.07 Fs=1.3959

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 44.00 yc = 140.75 Rc = 130.397 Fs=1.3749

Micropali Base x=43.47367 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 2.01 m
Micropali Base x=41.34955 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 2.01 m

CARICO LIMITE PALI

xc = 52.00 yc = 140.75 Rc = 130.953 Fs=1.3914

Micropali Base x=43.47367 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 2.22 m
Micropali Base x=41.34955 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 2.22 m

CARICO LIMITE PALI

xc = 56.00 yc = 134.00 Rc = 124.58 Fs=1.3884

Micropali Base x=43.47367 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 2.21 m
Micropali Base x=41.34955 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 2.21 m

CARICO LIMITE PALI

xc = 128.00 yc = 134.00 Rc = 97.198 Fs=1.391

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 40.00 yc = 147.50 Rc = 136.878 Fs=1.392

Micropali Base x=43.47367 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 1.73 m
Micropali Base x=41.34955 Y=11.37152 Plim=5253.2 Kg Sbalzo del palo 1.73 m

CARICO LIMITE PALI

xc = 156.00 yc = 154.25 Rc = 110.964 Fs=1.3197

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 167.75 Rc = 138.269 Fs=1.3878

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 88.00 yc = 161.00 Rc = 132.749 Fs=1.3016

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 161.00 Rc = 115.98 Fs=1.3435

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 148.00 yc = 167.75 Rc = 121.88 Fs=1.3401

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 152.00 yc = 161.00 Rc = 116.537 Fs=1.3641

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 92.00 yc = 181.25 Rc = 129.675 Fs=1.3596

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 116.00 yc = 181.25 Rc = 148.874 Fs=1.3067

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 112.00 yc = 188.00 Rc = 155.185 Fs=1.3199

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 215.00 Rc = 197.125 Fs=1.3483

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 124.00 yc = 221.75 Rc = 181.221 Fs=1.3805

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 44.00 yc = 235.25 Rc = 215.526 Fs=1.3225

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 248.75 Rc = 227.808 Fs=1.3465

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 140.00 yc = 248.75 Rc = 202.899 Fs=1.3678

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 48.00 yc = 255.50 Rc = 233.733 Fs=1.3033

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 140.00 yc = 262.25 Rc = 213.733 Fs=1.3884

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 255.50 Rc = 207.684 Fs=1.3517

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 60.00 yc = 275.75 Rc = 252.697 Fs=1.3007

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 329.75 Rc = 300.607 Fs=1.3724

Micropali Base x=43.47367 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.34955 Y=11.37152 Plim=0.0 Kg Sbalzo del palo 0.00 m