LISTATO DI CALCOLO – FASE 3

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	0.031
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	40.77	12.42
13	44.29	12.42
14	44.29	18.42
15	62.91	25.45
16	68.53	25.45
17	68.53	29.45
18	71.75	31.66
19	75.51	31.66
20	75.81	32.46
21	79.13	32.46
22	79.13	36.46
23	83.49	38.64
24	88.08	38.73
25	91.73	38.73
26	91.73	42.73
27	95.21	44.18
28	103.16	44.18
29	103.16	48.18
30	115.54	50.26
31	121.1	50.26
32	121.71	51.47
33	125.06	51.47
34	125.06	55.47
35	132.05	58.26
36	139.84	58.26
37	139.84	62.26
38	145.87	64.54
39	152.55	64.54
40	152.65	64.81
41	155.38	64.81
42	155.38	68.81
43	163.1	70.49
44	168.12	70.52
45	168.25	70.89
46	171.47	70.89
47	171.47	74.89
48	179.02	76.51
49	184.03	76.54
50	184.15	76.85
51	187.11	76.85
52	187.11	80.85
53	194.73	82.47
54	199.74	82.5
55	199.83	82.74
56	202.45	82.74
57	202.45	86.74
58	210.56	88.51
59	215.57	88.54
60	215.71	88.9
61	218.84	88.9
62	218.84	92.9
63	226.36	94.51
64	231.37	94.54
65	231.49	94.86

66	234.47	94.86
67	234.47	98.86
68	242.18	100.51
69	247.19	100.54
70	247.31	100.86
71	250.26	100.86
72	250.26	104.86
73	258.02	106.57
74	263.03	106.6
75	263.16	106.95
76	266.35	106.95
77	266.35	110.95
78	273.9	112.51
79	278.91	112.54
80	279.04	112.89
81	282.14	112.89
82	282.14	116.89
83	289.66	118.51
84	294.67	118.54
85	294.82	118.95
86	298.23	118.95
87	298.23	122.95
88	305.6	124.51
89	310.61	124.54
90	310.63	124.58
91	313.87	124.58
92	313.87	128.58
93	320.04	130.07
94	328.83	130.07
95	328.83	133.07
96	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	120.8
18	414.23	131.45
19	433.8	135.5 2

Vertici strato 1

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

11	26.5	8.1
12	32.75	9.52
13	42.61	12.6
14	48.71	13.21
15	53.26	14.02
16	58.12	15.53
17	64.29	17.64
18	70.5	18.02
19	81.13	21.02
20	93.9	23.5
21	101.03	24.85
22	109.98	30.03
23	118.88	31.91
24	128.0	36.58
25	139.9	40.13
26	142.92	40.79
27	159.6	43.29
28	172.1	48.29
29	184.1	53.29
30	192.1	58.29
31	200.1	63.29
32	216.6	68.29
33	239.1	73.29
34	264.1	78.29
35	274.1	83.29
36	284.1	88.29
37	292.6	93.29
38	300.6	98.29
39	308.1	103.29
40	318.1	108.29
41	330.6	113.29
42	363.1	118.29
43	370.6	123.29
44	375.1	128.29
45	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	44.29	12.42	0	0.1	6	2	3.9	2800
2	155.38	64.81	0	0.1	4	3	4	2800
3	171.47	70.89	0	0.1	4	3	4	2800
4	187.11	76.85	0	0.1	4	3	4	2800
5	202.45	82.74	0	0.1	4	3	4	2800
6	218.84	88.9	0	0.1	4	3	4	2800
7	234.47	94.86	0	0.1	4	3	4	2800
8	250.26	100.86	0	0.1	4	3	4	2800
9	266.35	106.95	0	0.1	4	3	4	2800
10	282.14	112.89	0	0.1	4	3	4	2800
11	298.23	118.95	0	0.1	4	3	4	2800
12	313.87	124.58	0	0.1	4	3	4	2800
13	103.16	44.18	0	0.1	4	3	4	2800
14	91.73	38.73	0	0.1	4	3	4	2800
15	79.13	32.46	0	0.1	4	3	4	2800
16	125.06	51.47	0	0.1	4	3	4	2800
17	139.84	58.26	0	0.1	4	3	4	2800
18	328.83	130.07	0	0.1	3	2	3	2800
19	68.53	25.45	0	0.1	4	3	4	280 0

Pali...

N°	x (m)	y (m)	Diametro (m)	Lunghezza (m)	Inclinazione (°)	Interasse (m)
1	43.70198	11.42477	0.2	6	90	3.6
2	41.49123	11.42477	0.2	6	90	3.6

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

Fs minimo individuato	1.13
Ascissa centro superficie	84.0 m
Ordinata centro superficie	343.25 m
Raggio superficie	312.62 m

Numero di superfici esaminate....(251)

N°	Xo	Yo	Ro	Fs
1	24.0	80.0	75.3	1.35
2	28.0	86.8	81.7	1.60
3	32.0	80.0	75.7	1.54
4	40.0	80.0	59.3	1.20

5	44.0	86.8	81.8	1.49
6	48.0	80.0	75.8	1.59
7	56.0	80.0	75.7	1.64
8	60.0	86.8	63.8	1.53
9	64.0	80.0	59.2	1.43
10	68.0	86.8	63.8	1.59
11	76.0	86.8	72.8	1.46
12	80.0	80.0	67.3	1.44
13	88.0	80.0	51.1	1.77
14	92.0	86.8	72.7	1.64
15	96.0	80.0	67.2	1.73
16	100.0	86.8	63.9	1.34
17	104.0	80.0	58.9	1.33
18	108.0	86.8	54.9	1.55
19	112.0	80.0	50.4	1.57
20	116.0	86.8	72.8	1.80
21	120.0	80.0	58.9	1.67
22	128.0	80.0	51.2	1.60
23	132.0	86.8	45.7	1.46
24	136.0	80.0	42.0	1.53
25	140.0	86.8	63.6	1.85
26	144.0	80.0	50.7	1.78
27	148.0	86.8	36.4	1.91
28	152.0	80.0	17.6	4.18
29	156.0	86.8	36.5	1.72
30	160.0	80.0	50.5	1.78
31	40.0	93.5	87.8	1.43
32	64.0	93.5	87.8	1.59
33	72.0	93.5	78.0	1.24
34	84.0	100.3	83.5	1.36
35	88.0	93.5	78.0	1.39
36	92.0	100.3	93.9	1.74
37	96.0	93.5	68.3	1.49
38	100.0	100.3	93.9	1.75
39	116.0	100.3	83.5	1.68
40	120.0	93.5	78.1	1.61
41	124.0	100.3	73.1	1.57
42	132.0	100.3	52.3	1.69
43	136.0	93.5	78.1	1.64
44	140.0	100.3	73.1	1.69
45	144.0	93.5	39.3	1.67
46	148.0	100.3	62.7	1.58
47	152.0	93.5	58.7	1.77
48	156.0	100.3	52.2	1.45
49	160.0	93.5	48.8	1.53
50	28.0	113.8	105.5	1.15
51	32.0	107.0	99.9	1.43
52	36.0	113.8	106.1	1.47
53	44.0	113.8	106.1	1.47
54	48.0	107.0	99.9	1.54
55	52.0	113.8	106.1	1.47
56	56.0	107.0	99.9	1.50
57	68.0	113.8	94.4	1.25
58	72.0	107.0	88.8	1.23
59	76.0	113.8	94.4	1.33
60	80.0	107.0	88.8	1.28
61	84.0	113.8	71.0	2.48
62	92.0	113.8	94.3	1.21
63	96.0	107.0	99.9	1.66
64	108.0	113.8	106.1	1.69
65	112.0	107.0	88.8	1.23
66	116.0	113.8	82.7	1.51
67	120.0	107.0	77.7	1.48

68	132.0	113.8	71.0	1.55
69	136.0	107.0	66.6	1.45
70	140.0	113.8	70.9	1.61
71	144.0	107.0	66.6	1.49
72	148.0	113.8	71.0	1.45
73	152.0	107.0	99.9	2.01
74	156.0	113.8	82.4	1.73
75	160.0	107.0	77.7	1.84
76	28.0	127.3	117.5	1.21
77	32.0	120.5	112.2	1.40
78	36.0	127.3	118.4	1.38
79	40.0	120.5	112.2	1.46
80	48.0	120.5	112.2	1.47
81	56.0	120.5	99.9	1.40
82	60.0	127.3	118.4	1.41
83	64.0	120.5	99.9	1.35
84	76.0	127.3	105.5	1.31
85	80.0	120.5	99.6	1.25
86	84.0	127.3	105.5	1.33
87	88.0	120.5	99.9	1.25
88	100.0	127.3	118.4	1.61
89	104.0	120.5	87.2	1.48
90	108.0	127.3	118.4	1.68
91	112.0	120.5	99.9	1.52
92	116.0	127.3	105.5	1.47
93	120.0	120.5	112.2	1.79
94	124.0	127.3	66.6	1.34
95	128.0	120.5	75.3	1.53
96	132.0	127.3	79.8	1.57
97	140.0	127.3	118.2	1.84
98	144.0	120.5	75.3	1.48
99	156.0	127.3	91.9	1.63
100	160.0	120.5	87.6	1.77
101	44.0	140.8	130.4	1.39
102	48.0	134.0	124.3	1.44
103	52.0	140.8	130.9	1.40
104	56.0	134.0	124.3	1.40
105	60.0	140.8	117.3	1.52
106	64.0	134.0	110.6	1.51
107	72.0	134.0	110.6	1.45
108	76.0	140.8	102.7	4.24
109	92.0	140.8	130.4	1.60
110	100.0	140.8	130.5	1.66
111	104.0	134.0	124.2	1.67
112	108.0	140.8	116.5	1.38
113	112.0	134.0	110.6	1.37
114	116.0	140.8	130.3	1.79
115	120.0	134.0	124.3	1.77
116	124.0	140.8	102.0	1.47
117	128.0	134.0	96.9	1.43
118	136.0	134.0	110.6	1.78
119	152.0	134.0	96.9	1.64
120	156.0	140.8	87.0	1.70
121	160.0	134.0	96.9	1.73
122	32.0	147.5	123.4	1.30
123	36.0	154.3	128.5	1.50
124	40.0	147.5	136.9	1.31
125	72.0	147.5	106.3	1.91
126	92.0	154.3	126.8	1.15
127	100.0	154.3	127.4	1.21
128	104.0	147.5	121.3	1.15
129	108.0	154.3	142.7	1.71
130	112.0	147.5	137.0	1.77

131	140.0	154.3	142.5	1.70
132	144.0	147.5	107.0	1.22
133	152.0	147.5	92.7	1.73
134	156.0	154.3	110.9	1.29
135	160.0	147.5	107.1	1.63
136	68.0	167.8	137.9	1.47
137	76.0	167.8	137.7	1.43
138	92.0	167.8	154.7	1.60
139	96.0	161.0	148.8	1.58
140	100.0	167.8	155.0	1.63
141	104.0	161.0	148.6	1.64
142	116.0	167.8	154.9	1.71
143	120.0	161.0	100.6	1.69
144	124.0	167.8	137.9	1.45
145	128.0	161.0	132.3	1.63
146	132.0	167.8	121.7	1.42
147	136.0	161.0	133.0	1.72
148	140.0	167.8	120.6	1.50
149	144.0	161.0	116.4	1.34
150	152.0	161.0	116.9	1.27
151	44.0	181.3	148.5	1.58
152	84.0	181.3	167.0	1.60
153	88.0	174.5	161.2	1.67
154	96.0	174.5	160.9	1.59
155	104.0	174.5	125.2	4.01
156	108.0	181.3	167.0	1.62
157	112.0	174.5	161.0	1.70
158	116.0	181.3	148.9	1.29
159	120.0	174.5	143.5	1.53
160	48.0	188.0	154.0	1.80
161	80.0	188.0	172.9	1.51
162	92.0	194.8	179.0	1.59
163	96.0	188.0	173.0	1.58
164	100.0	194.8	179.4	1.56
165	104.0	188.0	172.9	1.58
166	112.0	188.0	155.0	1.30
167	116.0	194.8	179.9	1.55
168	140.0	194.8	139.6	1.51
169	148.0	194.8	141.1	1.55
170	160.0	188.0	135.3	1.43
171	76.0	208.3	191.5	1.43
172	84.0	208.3	191.3	1.49
173	96.0	201.5	185.2	1.57
174	100.0	208.3	191.5	1.53
175	108.0	208.3	191.3	1.53
176	112.0	201.5	185.6	1.55
177	24.0	215.0	196.9	1.49
178	68.0	221.8	203.5	1.15
179	72.0	215.0	197.2	1.22
180	92.0	221.8	203.3	1.52
181	96.0	215.0	197.3	1.55
182	104.0	215.0	197.2	1.54
183	140.0	221.8	203.4	1.54
184	156.0	221.8	180.9	1.48
185	48.0	228.5	209.4	1.22
186	56.0	228.5	210.2	1.20
187	64.0	228.5	210.0	1.16
188	72.0	228.5	186.2	3.05
189	76.0	235.3	215.8	1.28
190	80.0	228.5	209.4	1.39
191	84.0	235.3	215.6	1.36
192	88.0	228.5	209.7	1.46
193	100.0	235.3	215.9	1.47

194	116.0	235.3	193.5	1.39
195	136.0	228.5	209.8	1.53
196	148.0	235.3	191.8	1.50
197	152.0	228.5	186.4	1.53
198	64.0	242.0	222.1	1.15
199	68.0	248.8	227.8	1.18
200	72.0	242.0	221.5	1.23
201	84.0	248.8	227.7	1.34
202	136.0	242.0	174.0	2.66
203	140.0	248.8	227.7	1.59
204	148.0	248.8	203.4	1.35
205	156.0	248.8	202.4	1.39
206	160.0	242.0	197.3	1.55
207	40.0	255.5	233.4	1.39
208	64.0	255.5	209.1	1.32
209	68.0	262.3	240.0	1.17
210	76.0	262.3	240.1	1.30
211	92.0	262.3	213.5	3.50
212	124.0	262.3	213.7	1.38
213	132.0	262.3	213.9	1.41
214	136.0	255.5	208.9	1.27
215	144.0	255.5	207.9	1.23
216	60.0	275.8	252.9	1.28
217	64.0	269.0	246.5	1.25
218	112.0	269.0	219.6	1.47
219	120.0	269.0	220.0	1.56
220	124.0	275.8	252.2	1.54
221	128.0	269.0	245.7	1.53
222	136.0	269.0	246.3	1.63
223	16.0	282.5	257.7	1.90
224	128.0	282.5	257.9	1.54
225	156.0	289.3	264.1	1.60
226	160.0	282.5	229.6	1.31
227	116.0	302.8	276.7	1.44
228	120.0	296.0	270.8	1.53
229	124.0	302.8	276.5	1.57
230	148.0	302.8	246.4	1.37
231	156.0	302.8	276.3	1.59
232	160.0	296.0	270.2	1.60
233	96.0	309.5	251.0	2.08
234	112.0	309.5	282.2	1.45
235	116.0	316.3	288.5	1.45
236	120.0	309.5	283.0	1.54
237	156.0	316.3	288.5	1.62
238	160.0	309.5	282.3	1.61
239	12.0	329.8	300.5	1.75
240	112.0	323.0	294.6	1.36
241	152.0	323.0	295.0	1.61
242	156.0	329.8	267.5	1.47
243	16.0	336.5	306.3	1.88
244	76.0	343.3	312.9	1.16
245	84.0	343.3	312.6	1.13
246	144.0	336.5	306.5	1.62
247	148.0	343.3	313.0	1.64
248	152.0	336.5	273.8	1.47
249	64.0	350.0	319.5	1.33
250	144.0	350.0	318.7	1.63
251	160.0	350.0	314.5	1.77

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CARICO LIMITE PALI

xc = 24.00 yc = 80.00 Rc = 75.315 Fs=1.3467

Micropali Base x=43.70198 Y=11.42477 Plim=799.1 Kg Sbalzo del palo 5.43 m
Micropali Base x=41.49123 Y=11.42477 Plim=799.1 Kg Sbalzo del palo 5.43 m

CARICO LIMITE PALI

xc = 40.00 yc = 80.00 Rc = 59.264 Fs=1.1989

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 100.00 yc = 86.75 Rc = 63.856 Fs=1.3445

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 104.00 yc = 80.00 Rc = 58.918 Fs=1.3315

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 72.00 yc = 93.50 Rc = 78.018 Fs=1.2424

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 100.25 Rc = 83.523 Fs=1.3572

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 88.00 yc = 93.50 Rc = 78.037 Fs=1.3909

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 28.00 yc = 113.75 Rc = 105.517 Fs=1.1548

Micropali Base x=43.70198 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 3.19 m
Micropali Base x=41.49123 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 3.19 m

CARICO LIMITE PALI

xc = 68.00 yc = 113.75 Rc = 94.372 Fs=1.2525

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 72.00 yc = 107.00 Rc = 88.809 Fs=1.2323

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 113.75 Rc = 94.372 Fs=1.3335

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 107.00 Rc = 88.809 Fs=1.2785

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 92.00 yc = 113.75 Rc = 94.334 Fs=1.2149

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 112.00 yc = 107.00 Rc = 88.809 Fs=1.2256

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 28.00 yc = 127.25 Rc = 117.532 Fs=1.2051

Micropali Base x=43.70198 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 1.81 m
Micropali Base x=41.49123 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 1.81 m

CARICO LIMITE PALI

xc = 36.00 yc = 127.25 Rc = 118.392 Fs=1.3805

Micropali Base x=43.70198 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 3.39 m
Micropali Base x=41.49123 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 3.39 m

CARICO LIMITE PALI

xc = 64.00 yc = 120.50 Rc = 99.91 Fs=1.3494

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 127.25 Rc = 105.534 Fs=1.3089

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 120.50 Rc = 99.646 Fs=1.2495

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 127.25 Rc = 105.534 Fs=1.3314

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 88.00 yc = 120.50 Rc = 99.91 Fs=1.253

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 124.00 yc = 127.25 Rc = 66.627 Fs=1.3403

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 44.00 yc = 140.75 Rc = 130.411 Fs=1.3915

Micropali Base x=43.70198 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 2.08 m
Micropali Base x=41.49123 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 2.08 m

CARICO LIMITE PALI

xc = 108.00 yc = 140.75 Rc = 116.526 Fs=1.3805

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 112.00 yc = 134.00 Rc = 110.567 Fs=1.3716

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 32.00 yc = 147.50 Rc = 123.428 Fs=1.2984

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 40.00 yc = 147.50 Rc = 136.892 Fs=1.3055

Micropali Base x=43.70198 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 1.79 m
Micropali Base x=41.49123 Y=11.42477 Plim=5253.2 Kg Sbalzo del palo 1.79 m

CARICO LIMITE PALI

xc = 92.00 yc = 154.25 Rc = 126.835 Fs=1.155

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 100.00 yc = 154.25 Rc = 127.391 Fs=1.2106

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 104.00 yc = 147.50 Rc = 121.29 Fs=1.1524

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 147.50 Rc = 106.963 Fs=1.2171

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 156.00 yc = 154.25 Rc = 110.925 Fs=1.2869

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 161.00 Rc = 116.362 Fs=1.3422

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 152.00 yc = 161.00 Rc = 116.875 Fs=1.2691

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 116.00 yc = 181.25 Rc = 148.874 Fs=1.2879

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 112.00 yc = 188.00 Rc = 155.008 Fs=1.3026

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 68.00 yc = 221.75 Rc = 203.474 Fs=1.1503

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 72.00 yc = 215.00 Rc = 197.21 Fs=1.2177

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 48.00 yc = 228.50 Rc = 209.441 Fs=1.224

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 56.00 yc = 228.50 Rc = 210.241 Fs=1.1999

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 64.00 yc = 228.50 Rc = 209.957 Fs=1.1633

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 235.25 Rc = 215.809 Fs=1.2756

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 80.00 yc = 228.50 Rc = 209.408 Fs=1.3858

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 235.25 Rc = 215.559 Fs=1.3623

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 116.00 yc = 235.25 Rc = 193.49 Fs=1.3884

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 64.00 yc = 242.00 Rc = 222.124 Fs=1.1482

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 68.00 yc = 248.75 Rc = 227.808 Fs=1.1757

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 72.00 yc = 242.00 Rc = 221.476 Fs=1.2307

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 248.75 Rc = 227.692 Fs=1.3406

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 148.00 yc = 248.75 Rc = 203.355 Fs=1.3521

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 156.00 yc = 248.75 Rc = 202.439 Fs=1.3887

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 64.00 yc = 255.50 Rc = 209.082 Fs=1.32

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 68.00 yc = 262.25 Rc = 239.975 Fs=1.1654

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 262.25 Rc = 240.075 Fs=1.30

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 124.00 yc = 262.25 Rc = 213.738 Fs=1.3841

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 136.00 yc = 255.50 Rc = 208.861 Fs=1.2683

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 144.00 yc = 255.50 Rc = 207.939 Fs=1.2317

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 60.00 yc = 275.75 Rc = 252.941 Fs=1.2822

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 64.00 yc = 269.00 Rc = 246.458 Fs=1.2526

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 160.00 yc = 282.50 Rc = 229.579 Fs=1.3119

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 148.00 yc = 302.75 Rc = 246.42 Fs=1.3684

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 112.00 yc = 323.00 Rc = 294.571 Fs=1.3647

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 76.00 yc = 343.25 Rc = 312.874 Fs=1.1625

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 84.00 yc = 343.25 Rc = 312.624 Fs=1.1253

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m

CARICO LIMITE PALI

xc = 64.00 yc = 350.00 Rc = 319.459 Fs=1.3312

Micropali Base x=43.70198 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m
Micropali Base x=41.49123 Y=11.42477 Plim=0.0 Kg Sbalzo del palo 0.00 m