ALLEGATO 3
VERIFICHE DI STABILITÀ INTERFERENZA 09
SEZIONE A-A' - RELAZIONI DI CALCOLO

VERIFICA DI STABILITÀ PRE-OPERAM IN ASSENZA DI FALDA ACQUIFERA

Analisi di stabilità dei pendii con BISHOP

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Numero di strati	3.0
Numero dei conci	50.0
Coefficiente di sicurezza [R2]	1.1

Superficie di forma circolare

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Maglia dei Centri

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Ascissa vertice sinistro inferiore xi	176.86 m
Ordinata vertice sinistro inferiore yi	270.38 m
Ascissa vertice destro superiore xs	298.45 m
Ordinata vertice destro superiore ys	370.87 m
Passo di ricerca	10.0
Numero di celle lungo x	10.0
Numero di celle lungo y	10.0

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Coefficienti sismici [N.T.C.] 2018

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Dati generali

Descrizione:	
Latitudine:	41.93
Longitudine:	14.82
Tipo di costruzione:	2 - Opere ordinarie
Classe d'uso:	Classe IV
Vita nominale:	50.0 [anni]
Vita di riferimento:	100.0 [anni]

Parametri sismici su sito di riferimento

Categoria sottosuolo:	C
Categoria topografica:	T1

S.L. Stato limite	TR Tempo ritorno [anni]	ag [m/s²]	F0 [-]	TC* [sec]
S.L.O.	60.0	0.56	2.51	0.34
S.L.D.	101.0	0.7	2.52	0.35
S.L.V.	949.0	1.54	2.6	0.43
S.L.C.	1950.0	1.94	2.6	0.44

Coefficienti sismici orizzontali e verticali

Opera: Stabilità dei pendii

S.L. Stato limite	amax [m/s²]	beta [-]	kh [-]	kv [sec]
S.L.O.	0.84	0.2	0.0171	0.0086
S.L.D.	1.05	0.2	0.0214	0.0107
S.L.V.	2.2407	0.24	0.0548	0.0274
S.L.C.	2.6993	0.24	0.0661	0.033

Coefficiente azione sismica orizzontale	0.055
Coefficiente azione sismica verticale	0.027

Vertici profilo

N	X m	y m
1	0.0	146.0
2	24.21	147.0
3	53.37	148.0
4	62.55	149.0
5	75.5	150.0
6	193.72	155.0
7	237.81	160.0
8	273.17	165.0
9	325.28	170.0
10	370.94	175.0
11	429.5	180.0
12	484.73	185.0
13	527.49	190.0
14	554.75	195.0
15	596.81	200.0
16	622.93	205.0
17	661.69	210.0
18	691.13	215.0
19	720.29	220.0
20	747.71	225.0
21	777.12	230.0
22	806.37	235.0

Vertici strato 1

N	X m	y m
1	0.0	145.0
2	18.02	143.34
3	48.98	142.55
4	62.02	143.08
5	78.88	143.65
6	192.17	149.15
7	237.81	153.0
8	273.17	158.0
9	325.28	163.0
10	370.94	168.0
11	429.5	173.0
12	484.73	178.0
13	527.49	183.0
14	554.75	188.0
15	596.81	193.0
16	622.93	198.0
17	661.69	203.0
18	691.13	208.0
19	720.29	213.0
20	747.71	218.0
21	777.12	223.0
22	806.37	235.0

Vertici strato 2

N	X m	y m
1	0.0	134.0
2	24.99	134.85
3	50.56	136.22
4	73.93	137.32
5	133.59	140.69
6	192.76	143.59
7	215.38	147.36
8	237.81	153.0
9	273.17	158.0
10	325.28	163.0
11	370.94	168.0
12	429.5	173.0
13	484.73	178.0
14	527.49	183.0
15	554.75	188.0
16	596.81	193.0
17	622.93	198.0
18	661.69	203.0
19	691.13	208.0
20	720.29	213.0
21	747.71	218.0
22	777.12	223.0
23	806.37	228.0

Stratigrafia

c: coesione; Fi: Angolo di attrito; G: Peso Specifico; Gs: Peso Specifico Saturo

Strato	c (kg/cm²)	Fi (°)	G (Kg/m³)	Gs (Kg/m³)	Litologia
1	0	22	1950	2040	
2	0	30	1900	1980	
3	0.20	23.4	2050	2150	

Risultati analisi pendio [A2+M2+R2]

Fs minimo individuato	1.64
Ascissa centro superficie	237.66 m
Ordinata centro superficie	270.38 m
Raggio superficie	111.51 m

Numero di superfici esaminate....(221)

N°	Xo	Yo	Ro	Fs
1	176.9	270.4	121.3	2.73
2	182.9	275.4	123.3	2.49
3	189.0	270.4	117.9	2.26
4	195.1	275.4	122.5	2.07
5	201.2	270.4	117.1	1.96
6	207.3	275.4	121.8	1.88
7	213.3	270.4	116.4	1.84
8	219.4	275.4	117.9	1.79
9	225.5	270.4	112.4	1.72
10	231.6	275.4	117.0	1.67
11	237.7	270.4	111.5	1.64

12	243.7	275.4	116.0	1.67
13	249.8	270.4	110.6	1.72
14	255.9	275.4	115.1	1.80
15	262.0	270.4	109.7	1.87
16	268.1	275.4	114.2	1.95
17	274.1	270.4	108.7	2.02
18	280.2	275.4	113.3	2.08
19	286.3	270.4	107.8	2.13
20	292.4	275.4	112.4	2.14
21	298.5	270.4	106.9	2.13
22	176.9	280.4	131.4	2.68
23	182.9	285.5	133.3	2.45
24	189.0	280.4	127.9	2.24
25	195.1	285.5	132.6	2.06
26	201.2	280.4	127.2	1.95
27	207.3	285.5	131.8	1.87
28	213.3	280.4	126.4	1.83
29	219.4	285.5	127.9	1.77
30	225.5	280.4	122.4	1.71
31	231.6	285.5	127.0	1.66
32	237.7	280.4	121.5	1.65
33	243.7	285.5	126.1	1.68
34	249.8	280.4	120.6	1.74
35	255.9	285.5	125.1	1.81
36	262.0	280.4	119.7	1.88
37	268.1	285.5	124.2	1.96
38	274.1	280.4	118.7	2.02
39	280.2	285.5	123.3	2.08
40	286.3	280.4	117.8	2.12
41	292.4	285.5	122.4	2.13
42	298.5	280.4	116.9	2.12
43	176.9	290.5	141.4	2.65
44	182.9	295.5	143.4	2.42
45	189.0	290.5	138.0	2.21
46	195.1	295.5	142.6	2.05
47	201.2	290.5	137.2	1.94
48	207.3	295.5	141.8	1.85
49	213.3	290.5	136.4	1.82
50	219.4	295.5	137.9	1.75
51	225.5	290.5	132.4	1.70
52	231.6	295.5	137.0	1.65
53	237.7	290.5	131.5	1.65
54	243.7	295.5	136.1	1.70
55	249.8	290.5	130.6	1.75
56	255.9	295.5	135.1	1.82
57	262.0	290.5	129.7	1.89
58	268.1	295.5	134.2	1.96
59	274.1	290.5	128.8	2.03
60	280.2	295.5	133.3	2.08
61	286.3	290.5	127.8	2.12
62	292.4	295.5	132.4	2.12
63	298.5	290.5	126.9	2.11
64	176.9	300.5	151.4	2.61
65	182.9	305.5	153.4	2.39
66	189.0	300.5	148.0	2.19
67	195.1	305.5	152.6	2.04
68	201.2	300.5	147.2	1.93
69	207.3	305.5	151.8	1.84
70	213.3	300.5	146.4	1.80

71	219.4	305.5	147.9	1.74
72	225.5	300.5	142.5	1.69
73	231.6	305.5	147.0	1.65
74	237.7	300.5	141.5	1.66
75	243.7	305.5	146.1	1.71
76	249.8	300.5	140.6	1.76
77	255.9	305.5	145.2	1.84
78	262.0	300.5	139.7	1.90
79	268.1	305.5	144.2	1.97
80	274.1	300.5	138.8	2.03
81	280.2	305.5	143.3	2.08
82	286.3	300.5	137.8	2.11
83	292.4	305.5	142.4	2.11
84	298.5	300.5	136.9	2.10
85	176.9	310.6	161.4	2.58
86	182.9	315.6	163.4	2.36
87	189.0	310.6	158.0	2.18
88	195.1	315.6	162.6	2.02
89	201.2	310.6	157.2	1.91
90	207.3	315.6	161.8	1.83
91	213.3	310.6	156.4	1.79
92	219.4	315.6	157.9	1.72
93	225.5	310.6	152.5	1.68
94	231.6	315.6	157.0	1.65
95	237.7	310.6	151.5	1.67
96	243.7	315.6	156.1	1.72
97	249.8	310.6	150.6	1.78
98	255.9	315.6	151.7	1.84
99	262.0	310.6	149.7	1.91
100	268.1	315.6	154.2	1.97
101	274.1	310.6	148.8	2.03
102	280.2	315.6	153.3	2.08
103	286.3	310.6	147.8	2.10
104	292.4	315.6	152.4	2.10
105	298.5	310.6	146.9	2.09
106	176.9	320.6	171.4	2.55
107	182.9	325.6	173.4	2.33
108	189.0	320.6	168.0	2.16
109	195.1	325.6	172.6	2.00
110	201.2	320.6	167.2	1.90
111	207.3	325.6	171.8	1.82
112	213.3	320.6	166.4	1.78
113	219.4	325.6	167.9	1.71
114	225.5	320.6	162.5	1.67
115	231.6	325.6	167.0	1.66
116	237.7	320.6	161.5	1.68
117	243.7	325.6	166.1	1.73
118	249.8	320.6	160.6	1.79
119	255.9	325.6	165.2	1.86
120	262.0	320.6	159.7	1.92
121	268.1	325.6	164.2	1.98
122	274.1	320.6	158.8	2.03
123	280.2	325.6	163.3	2.07
124	286.3	320.6	157.9	2.10
125	292.4	325.6	162.4	2.10
126	298.5	320.6	156.9	2.08
127	176.9	330.7	181.4	2.52
128	182.9	335.7	183.4	2.30
129	189.0	330.7	178.0	2.14

130	195.1	335.7	182.6	1.99
131	201.2	330.7	177.2	1.89
132	207.3	335.7	181.8	1.81
133	213.3	330.7	173.4	1.77
134	219.4	335.7	177.9	1.70
135	225.5	330.7	172.5	1.66
136	231.6	335.7	177.0	1.67
137	237.7	330.7	171.6	1.69
138	243.7	335.7	176.1	1.75
139	249.8	330.7	170.6	1.80
140	255.9	335.7	175.2	1.87
141	262.0	330.7	169.7	1.92
142	268.1	335.7	174.3	1.98
143	274.1	330.7	168.8	2.03
144	280.2	335.7	173.3	2.07
145	286.3	330.7	167.9	2.09
146	292.4	335.7	172.4	2.09
147	298.5	330.7	166.9	2.08
148	176.9	340.7	191.5	2.50
149	182.9	345.7	193.4	2.28
150	189.0	340.7	188.0	2.12
151	195.1	345.7	192.6	1.97
152	201.2	340.7	187.2	1.87
153	207.3	345.7	191.8	1.80
154	213.3	340.7	183.4	1.75
155	219.4	345.7	187.9	1.69
156	225.5	340.7	182.5	1.66
157	231.6	345.7	187.0	1.67
158	237.7	340.7	181.6	1.70
159	243.7	345.7	186.1	1.76
160	249.8	340.7	180.6	1.81
161	255.9	345.7	185.2	1.88
162	262.0	340.7	179.7	1.93
163	268.1	345.7	184.3	1.99
164	274.1	340.7	178.8	2.04
165	280.2	345.7	183.3	2.07
166	286.3	340.7	177.9	2.09
167	292.4	345.7	182.4	2.08
168	298.5	340.7	177.0	2.07
169	176.9	350.8	201.5	2.47
170	182.9	355.8	203.4	2.26
171	189.0	350.8	198.0	2.10
172	195.1	355.8	202.7	1.95
173	201.2	350.8	197.3	1.86
174	207.3	355.8	201.9	1.79
175	213.3	350.8	193.4	1.74
176	219.4	355.8	198.0	1.68
177	225.5	350.8	192.5	1.66
178	231.6	355.8	197.0	1.68
179	237.7	350.8	191.6	1.72
180	243.7	355.8	196.1	1.77
181	249.8	350.8	190.6	1.82
182	255.9	355.8	195.2	1.89
183	262.0	350.8	189.7	1.94
184	268.1	355.8	194.3	1.99
185	274.1	350.8	188.8	2.04
186	280.2	355.8	193.3	2.07
187	286.3	350.8	187.9	2.08
188	292.4	355.8	192.4	2.08

189	298.5	350.8	187.0	2.06
190	176.9	360.8	208.8	2.44
191	182.9	365.8	213.5	2.24
192	189.0	360.8	208.1	2.08
193	195.1	365.8	212.7	1.94
194	201.2	360.8	207.3	1.85
195	207.3	365.8	211.9	1.78
196	213.3	360.8	203.4	1.72
197	219.4	365.8	208.0	1.67
198	225.5	360.8	202.5	1.67
199	231.6	365.8	207.0	1.69
200	237.7	360.8	201.6	1.73
201	243.7	365.8	206.1	1.78
202	249.8	360.8	200.7	1.83
203	255.9	365.8	205.2	1.89
204	262.0	360.8	199.7	1.94
205	268.1	365.8	204.3	2.00
206	274.1	360.8	198.8	2.04
207	280.2	365.8	203.4	2.06
208	286.3	360.8	197.9	2.08
209	292.4	365.8	202.4	2.07
210	298.5	360.8	197.0	2.06
211	176.9	370.9	218.9	2.41
212	189.0	370.9	218.1	2.06
213	201.2	370.9	217.3	1.84
214	213.3	370.9	213.4	1.71
215	225.5	370.9	212.5	1.67
216	237.7	370.9	211.6	1.74
217	249.8	370.9	210.7	1.84
218	262.0	370.9	209.7	1.95
219	274.1	370.9	208.8	2.04
220	286.3	370.9	207.9	2.07
221	298.5	370.9	207.0	2.05

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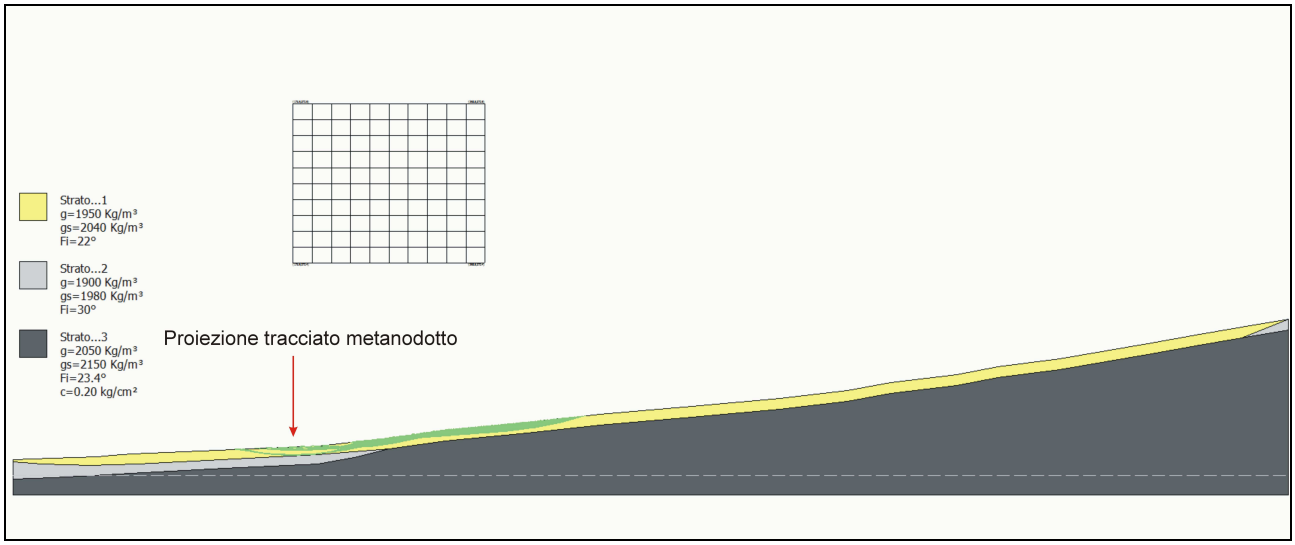
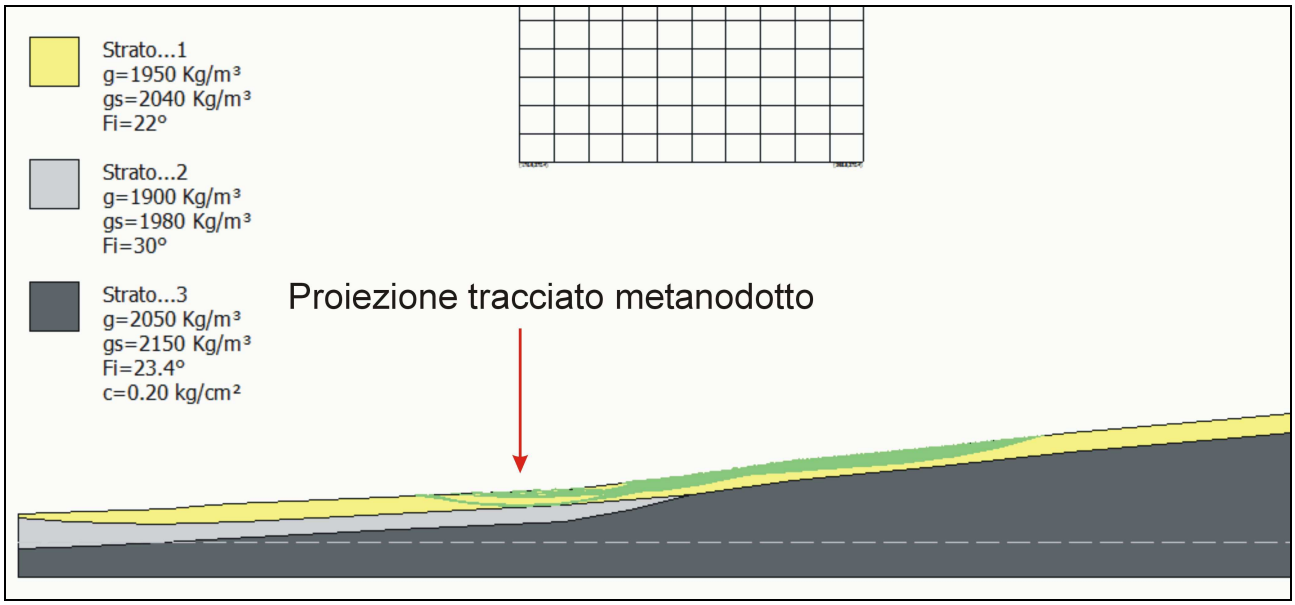


Sezione A-A' - in verde le superfici di scorrimento con Fs > 1.5



Sezione A-A' - in verde le superfici di scorrimento con Fs > 1.5

VERIFICA DI STABILITÀ PRE-OPERAM IN CONDIZIONI DI SATURAZIONE

Analisi di stabilità dei pendii con BISHOP

Numero di strati	3.0
Numero dei conci	50.0
Coefficiente di sicurezza [R2]	1.1

Superficie di forma circolare

Maglia dei Centri

Ascissa vertice sinistro inferiore xi	176.86 m
Ordinata vertice sinistro inferiore yi	270.38 m
Ascissa vertice destro superiore xs	298.45 m
Ordinata vertice destro superiore ys	370.87 m
Passo di ricerca	10.0
Numero di celle lungo x	10.0
Numero di celle lungo y	10.0

Coefficienti sismici [N.T.C.] 2018

Dati generali

Descrizione:	
Latitudine:	41.93
Longitudine:	14.82
Tipo di costruzione:	2 - Opere ordinarie
Classe d'uso:	Classe IV
Vita nominale:	50.0 [anni]
Vita di riferimento:	100.0 [anni]

Parametri sismici su sito di riferimento

Categoria sottosuolo:	C
Categoria topografica:	T1

S.L. Stato limite	TR Tempo ritorno [anni]	ag [m/s²]	F0 [-]	TC* [sec]
S.L.O.	60.0	0.56	2.51	0.34
S.L.D.	101.0	0.7	2.52	0.35
S.L.V.	949.0	1.54	2.6	0.43
S.L.C.	1950.0	1.94	2.6	0.44

Coefficienti sismici orizzontali e verticali

Opera: Stabilità dei pendii

S.L. Stato limite	amax [m/s²]	beta [-]	kh [-]	kv [sec]
S.L.O.	0.84	0.2	0.0171	0.0086
S.L.D.	1.05	0.2	0.0214	0.0107
S.L.V.	2.2407	0.24	0.0548	0.0274
S.L.C.	2.6993	0.24	0.0661	0.033

Coefficiente azione sismica orizzontale	0.0548
Coefficiente azione sismica verticale	0.0274

Vertici profilo

N	X m	y m
1	0.0	146.0
2	24.21	147.0
3	53.37	148.0
4	62.55	149.0
5	75.5	150.0
6	193.72	155.0
7	237.81	160.0
8	273.17	165.0
9	325.28	170.0
10	370.94	175.0
11	429.5	180.0
12	484.73	185.0
13	527.49	190.0
14	554.75	195.0
15	596.81	200.0
16	622.93	205.0
17	661.69	210.0
18	691.13	215.0
19	720.29	220.0
20	747.71	225.0
21	777.12	230.0
22	806.37	235.0

Falda

Nr.	X m	y m
1	0.0	146.0
2	24.21	147.0
3	53.37	148.0
4	62.55	149.0
5	75.5	150.0
6	193.72	155.0
7	237.81	160.0
8	273.17	165.0
9	325.28	170.0
10	370.94	175.0
11	429.5	180.0
12	484.73	185.0
13	527.49	190.0
14	554.75	195.0
15	596.81	200.0
16	622.93	205.0
17	661.69	210.0
18	691.13	215.0
19	720.29	220.0
20	747.71	225.0
21	777.12	230.0
22	806.37	235.0

Vertici strato 1

N	X m	y m
1	0.0	145.0
2	18.02	143.34
3	48.98	142.55
4	62.02	143.08

5	78.88	143.65
6	192.17	149.15
7	237.81	153.0
8	273.17	158.0
9	325.28	163.0
10	370.94	168.0
11	429.5	173.0
12	484.73	178.0
13	527.49	183.0
14	554.75	188.0
15	596.81	193.0
16	622.93	198.0
17	661.69	203.0
18	691.13	208.0
19	720.29	213.0
20	747.71	218.0
21	777.12	223.0
22	806.37	235.0

Vertici strato 2

N	X m	y m
1	0.0	134.0
2	24.99	134.85
3	50.56	136.22
4	73.93	137.32
5	133.59	140.69
6	192.76	143.59
7	215.38	147.36
8	237.81	153.0
9	273.17	158.0
10	325.28	163.0
11	370.94	168.0
12	429.5	173.0
13	484.73	178.0
14	527.49	183.0
15	554.75	188.0
16	596.81	193.0
17	622.93	198.0
18	661.69	203.0
19	691.13	208.0
20	720.29	213.0
21	747.71	218.0
22	777.12	223.0
23	806.37	228.0

Stratigrafia

c: coesione; Fi: Angolo di attrito; G: Peso Specifico; Gs: Peso Specifico Saturo

Strato	c (kg/cm²)	Fi (°)	G (Kg/m³)	Gs (Kg/m³)	Litologia
1	0	22	1950	2040	
2	0	30	1900	1980	
3	0.20	23.4	2050	2150	

Risultati analisi pendio [A2+M2+R2]

Fs minimo individuato	0.83
Ascissa centro superficie	237.66 m
Ordinata centro superficie	300.53 m
Raggio superficie	141.53 m

Numero di superfici esaminate....(221)

N°	Xo	Yo	Ro	Fs
1	176.9	270.4	118.7	1.54
2	182.9	275.4	126.0	1.47
3	189.0	270.4	117.9	1.34
4	195.1	275.4	122.5	1.33
5	201.2	270.4	117.1	1.23
6	207.3	275.4	121.8	1.13
7	213.3	270.4	113.4	1.12
8	219.4	275.4	121.0	0.97
9	225.5	270.4	112.4	0.91
10	231.6	275.4	117.0	0.86
11	237.7	270.4	111.5	0.84
12	243.7	275.4	116.0	0.86
13	249.8	270.4	110.6	0.87
14	255.9	275.4	118.6	0.93
15	262.0	270.4	106.1	0.99
16	268.1	275.4	114.2	1.01
17	274.1	270.4	108.7	1.06
18	280.2	275.4	113.3	1.07
19	286.3	270.4	107.8	1.12
20	292.4	275.4	112.4	1.12
21	298.5	270.4	106.9	1.09
22	176.9	280.4	131.4	1.57
23	182.9	285.5	133.3	1.47
24	189.0	280.4	127.9	1.34
25	195.1	285.5	132.6	1.27
26	201.2	280.4	130.0	1.11
27	207.3	285.5	131.8	1.13
28	213.3	280.4	126.4	0.98
29	219.4	285.5	131.0	0.93
30	225.5	280.4	125.6	0.91
31	231.6	285.5	127.0	0.86
32	237.7	280.4	121.5	0.85
33	243.7	285.5	126.1	0.86
34	249.8	280.4	120.6	0.89
35	255.9	285.5	125.1	0.93
36	262.0	280.4	119.7	0.96
37	268.1	285.5	124.2	1.00
38	274.1	280.4	118.7	1.05
39	280.2	285.5	123.3	1.09
40	286.3	280.4	117.8	1.09
41	292.4	285.5	122.4	1.12
42	298.5	280.4	116.9	1.09
43	176.9	290.5	138.8	1.54
44	182.9	295.5	143.4	1.46
45	189.0	290.5	138.0	1.36
46	195.1	295.5	145.4	1.24
47	201.2	290.5	137.2	1.14

48	207.3	295.5	141.8	1.08
49	213.3	290.5	136.4	0.99
50	219.4	295.5	141.0	0.94
51	225.5	290.5	132.4	0.90
52	231.6	295.5	137.0	0.87
53	237.7	290.5	131.5	0.85
54	243.7	295.5	136.1	0.85
55	249.8	290.5	130.6	0.87
56	255.9	295.5	135.1	0.94
57	262.0	290.5	129.7	0.98
58	268.1	295.5	134.2	1.03
59	274.1	290.5	128.8	1.06
60	280.2	295.5	133.3	1.09
61	286.3	290.5	127.8	1.11
62	292.4	295.5	132.4	1.08
63	298.5	290.5	126.9	1.06
64	176.9	300.5	148.8	1.51
65	182.9	305.5	153.4	1.39
66	189.0	300.5	150.7	1.36
67	195.1	305.5	155.4	1.21
68	201.2	300.5	150.1	1.14
69	207.3	305.5	151.8	1.06
70	213.3	300.5	146.4	0.99
71	219.4	305.5	147.9	0.93
72	225.5	300.5	142.5	0.89
73	231.6	305.5	147.0	0.88
74	237.7	300.5	141.5	0.83
75	243.7	305.5	146.1	0.88
76	249.8	300.5	140.6	0.89
77	255.9	305.5	145.2	0.94
78	262.0	300.5	139.7	0.96
79	268.1	305.5	144.2	1.02
80	274.1	300.5	138.8	1.02
81	280.2	305.5	143.3	1.05
82	286.3	300.5	137.8	1.06
83	292.4	305.5	142.4	1.08
84	298.5	300.5	136.9	1.05
85	176.9	310.6	158.8	1.49
86	182.9	315.6	166.1	1.44
87	189.0	310.6	158.0	1.31
88	195.1	315.6	162.6	1.17
89	201.2	310.6	157.2	1.10
90	207.3	315.6	161.8	1.00
91	213.3	310.6	156.4	0.97
92	219.4	315.6	157.9	0.92
93	225.5	310.6	152.5	0.90
94	231.6	315.6	157.0	0.85
95	237.7	310.6	151.5	0.89
96	243.7	315.6	159.4	0.90
97	249.8	310.6	150.6	0.90
98	255.9	315.6	155.2	0.94
99	262.0	310.6	149.7	0.99
100	268.1	315.6	154.2	1.03
101	274.1	310.6	148.8	1.03
102	280.2	315.6	153.3	1.13
103	286.3	310.6	147.8	1.11
104	292.4	315.6	152.4	1.08
105	298.5	310.6	146.9	1.08
106	176.9	320.6	171.4	1.52

107	182.9	325.6	176.1	1.35
108	189.0	320.6	170.8	1.27
109	195.1	325.6	175.5	1.23
110	201.2	320.6	170.1	1.11
111	207.3	325.6	171.8	1.05
112	213.3	320.6	166.4	0.99
113	219.4	325.6	167.9	0.92
114	225.5	320.6	162.5	0.88
115	231.6	325.6	167.0	0.87
116	237.7	320.6	161.5	0.86
117	243.7	325.6	166.1	0.88
118	249.8	320.6	164.1	0.92
119	255.9	325.6	165.2	0.95
120	262.0	320.6	159.7	1.00
121	268.1	325.6	164.2	1.00
122	274.1	320.6	158.8	1.04
123	280.2	325.6	163.3	1.06
124	286.3	320.6	157.9	1.06
125	292.4	325.6	162.4	1.07
126	298.5	320.6	156.9	1.09
127	176.9	330.7	181.4	1.44
128	182.9	335.7	183.4	1.37
129	189.0	330.7	178.0	1.37
130	195.1	335.7	185.5	1.14
131	201.2	330.7	177.2	1.06
132	207.3	335.7	181.8	0.99
133	213.3	330.7	176.4	0.95
134	219.4	335.7	177.9	0.90
135	225.5	330.7	172.5	0.87
136	231.6	335.7	177.0	0.86
137	237.7	330.7	171.6	0.86
138	243.7	335.7	176.1	0.90
139	249.8	330.7	170.6	0.91
140	255.9	335.7	175.2	0.96
141	262.0	330.7	169.7	0.99
142	268.1	335.7	174.3	1.02
143	274.1	330.7	168.8	1.07
144	280.2	335.7	173.3	1.07
145	286.3	330.7	167.9	1.06
146	292.4	335.7	172.4	1.06
147	298.5	330.7	166.9	1.06
148	176.9	340.7	188.8	1.44
149	182.9	345.7	193.4	1.27
150	189.0	340.7	190.8	1.13
151	195.1	345.7	195.5	1.16
152	201.2	340.7	187.2	1.03
153	207.3	345.7	191.8	1.02
154	213.3	340.7	186.4	0.95
155	219.4	345.7	191.1	0.90
156	225.5	340.7	182.5	0.85
157	231.6	345.7	187.0	0.88
158	237.7	340.7	181.6	0.88
159	243.7	345.7	186.1	0.91
160	249.8	340.7	180.6	0.91
161	255.9	345.7	185.2	0.96
162	262.0	340.7	179.7	0.97
163	268.1	345.7	184.3	1.05
164	274.1	340.7	178.8	1.04
165	280.2	345.7	183.3	1.09

166	286.3	340.7	177.9	1.07
167	292.4	345.7	182.4	1.10
168	298.5	340.7	177.0	1.05
169	176.9	350.8	198.8	1.46
170	182.9	355.8	203.4	1.20
171	189.0	350.8	200.8	1.21
172	195.1	355.8	202.7	1.17
173	201.2	350.8	197.3	1.04
174	207.3	355.8	201.9	0.93
175	213.3	350.8	196.5	0.91
176	219.4	355.8	198.0	0.89
177	225.5	350.8	192.5	0.85
178	231.6	355.8	197.0	0.87
179	237.7	350.8	191.6	0.88
180	243.7	355.8	196.1	0.90
181	249.8	350.8	190.6	0.94
182	255.9	355.8	195.2	0.99
183	262.0	350.8	189.7	1.00
184	268.1	355.8	194.3	1.04
185	274.1	350.8	188.8	1.06
186	280.2	355.8	193.3	1.09
187	286.3	350.8	187.9	1.09
188	292.4	355.8	192.4	1.07
189	298.5	350.8	187.0	1.05
190	176.9	360.8	211.5	1.46
191	182.9	365.8	213.5	1.26
192	189.0	360.8	208.1	1.20
193	195.1	365.8	215.5	1.15
194	201.2	360.8	207.3	1.03
195	207.3	365.8	211.9	0.96
196	213.3	360.8	203.4	0.95
197	219.4	365.8	208.0	0.86
198	225.5	360.8	202.5	0.85
199	231.6	365.8	207.0	0.85
200	237.7	360.8	201.6	0.88
201	243.7	365.8	206.1	0.89
202	249.8	360.8	200.7	0.93
203	255.9	365.8	205.2	1.00
204	262.0	360.8	199.7	0.98
205	268.1	365.8	204.3	1.03
206	274.1	360.8	198.8	1.06
207	280.2	365.8	203.4	1.15
208	286.3	360.8	197.9	1.06
209	292.4	365.8	202.4	1.06
210	298.5	360.8	197.0	1.04
211	176.9	370.9	218.9	1.41
212	189.0	370.9	220.9	1.19
213	201.2	370.9	217.3	1.01
214	213.3	370.9	216.5	0.93
215	225.5	370.9	212.5	0.85
216	237.7	370.9	211.6	0.90
217	249.8	370.9	210.7	0.96
218	262.0	370.9	209.7	1.02
219	274.1	370.9	208.8	1.03
220	286.3	370.9	207.9	1.10
221	298.5	370.9	203.0	1.05

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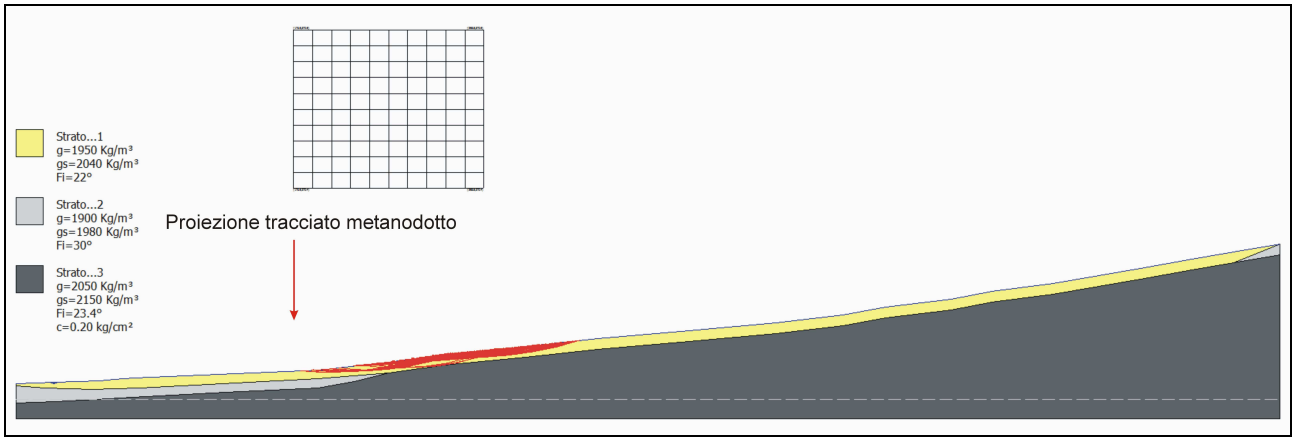
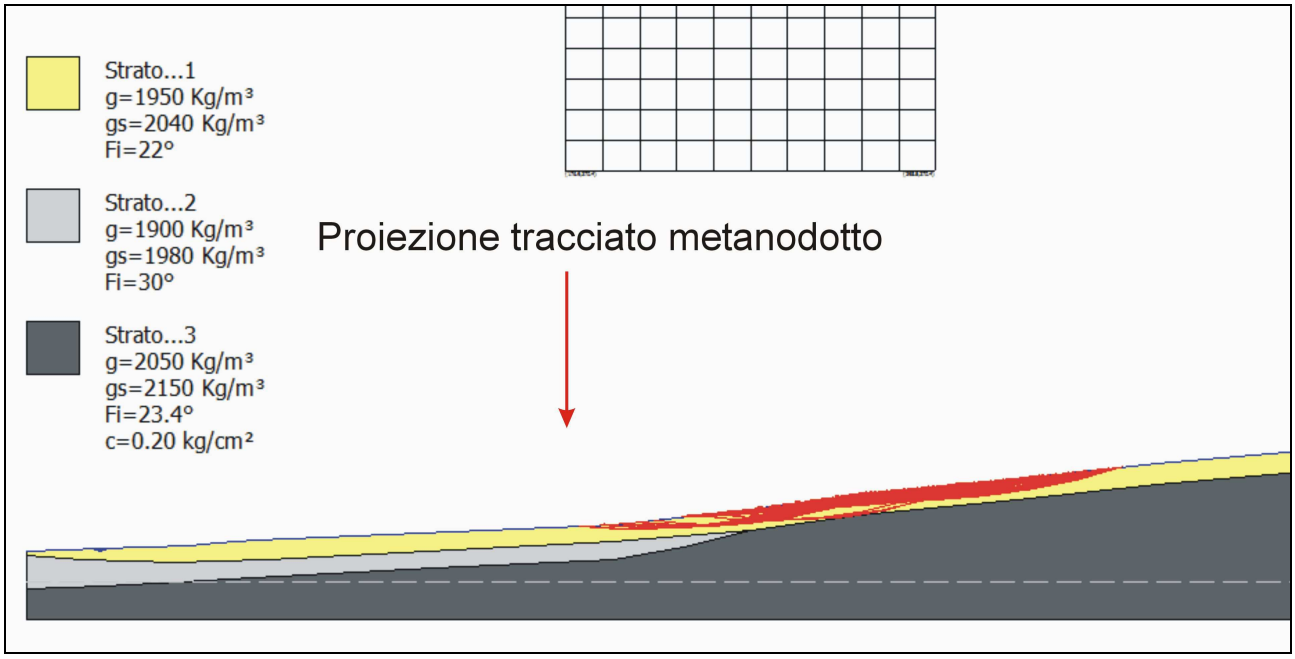


Sezione A-A' - in verde le superfici di scorrimento con Fs < 1.1



Sezione A-A' - in verde le superfici di scorrimento con Fs < 1.1