

Tematy projektów

Numer tematu	głębokość wykopu h [m]	grubość warstwy 1 h ₁ [m]	ZWG po stronie wykopu h _l [m]	ZWG po stronie naziomu h _r [m]	parametry warstwy 1				parametry warstwy 2				obciążenie q [kPa]
					c ₁ [kPa]	φ ₁ [°]	γ ₁ [kN/m ³]	γ' ₁ [kN/m ³]	c ₂ [kPa]	φ ₂ [°]	γ ₂ [kN/m ³]	γ' ₂ [kN/m ³]	
1	6.7	4.9	6.7	4.7	18	16	19.6	12.2	1	35	19.5	12.1	23
2	5.0	5.2	4.5	3.0	14	13	17.2	10.7	25	16	16.4	10.2	20
3	7.0	3.8	6.6	4.1	19	16	19.8	12.3	24	17	18.9	11.8	21
4	5.7	4.6	5.2	3.2	1	28	16.9	10.5	24	16	16.7	10.4	20
5	3.7	4.3	2.7	2.0	10	10	18.1	11.3	1	26	19.1	11.9	16
6	6.8	2.6	6.0	4.5	1	32	19.6	12.2	0	31	18.3	11.4	18
7	4.4	3.1	3.1	2.5	0	23	18.5	11.5	0	26	18.6	11.6	14
8	6.3	3.7	5.6	3.6	17	15	19.4	12.1	23	16	18.8	11.7	19
9	3.9	4.7	3.3	2.7	0	22	17.8	11.1	1	28	16.7	10.4	17
10	4.1	5.6	3.7	2.7	12	11	17.7	11.0	25	15	16.2	10.1	19
11	5.9	4.3	5.4	3.6	1	29	16.8	10.5	24	16	16.8	10.5	20
12	4.5	2.5	2.8	2.3	0	24	18.5	11.5	0	25	18.3	11.4	13
13	5.1	5.2	4.6	2.7	14	13	18.8	11.7	1	32	19.6	12.2	21
14	5.0	2.3	4.0	3.5	0	26	17.2	10.7	18	14	17.8	11.1	14
15	4.4	5.9	4.1	2.8	12	12	18.5	11.5	1	31	19.9	12.4	21
16	4.7	2.2	3.1	2.6	0	24	18.6	11.6	17	13	18.1	11.3	13
17	5.4	5.3	5.1	3.3	15	13	18.9	11.8	26	16	19.7	12.3	21
18	7.1	2.9	6.3	4.4	1	33	19.8	12.3	22	16	18.4	11.5	19
19	5.1	5.6	4.7	2.9	14	13	18.9	11.8	26	16	16.2	10.1	21
20	6.8	5.4	6.8	4.1	18	16	19.7	12.3	1	36	19.7	12.3	24
21	6.5	3.8	5.9	3.9	1	31	18.2	11.3	23	16	18.8	11.7	20
22	4.2	2.4	3.1	2.8	12	11	17.6	11.0	17	13	17.8	11.1	12
23	6.5	3.4	6.0	4.7	17	15	16.5	10.3	0	32	16.9	10.5	19
24	6.1	2.5	5.1	4.0	17	15	19.3	12.0	20	15	18.3	11.4	16
25	6.5	3.3	5.7	4.0	1	31	16.5	10.3	22	16	17.4	10.8	19
26	4.6	5.1	4.0	2.7	0	24	18.5	11.5	24	15	19.5	12.1	19
27	7.2	3.7	6.9	5.0	1	34	16.1	10.0	0	34	17.2	10.7	21
28	7.3	5.8	7.3	5.0	19	17	16.1	10.0	1	38	16.1	10.0	26
29	6.5	3.2	5.9	4.5	1	31	16.5	10.3	22	16	17.4	10.8	19
30	6.7	3.2	5.9	4.1	18	16	16.4	10.2	22	16	17.4	10.8	19
31	5.6	2.0	4.2	3.4	15	14	17.0	10.6	0	27	18.0	11.2	14
32	6.2	5.6	6.2	4.1	1	30	19.3	12.0	27	17	19.8	12.3	23
33	6.4	3.8	5.9	4.4	1	31	16.5	10.3	0	32	17.1	10.6	20
34	5.4	4.7	4.8	3.0	0	27	19.0	11.8	24	16	19.4	12.1	20
35	6.0	4.1	5.5	3.9	1	29	19.2	12.0	1	32	19.1	11.9	20
36	5.3	5.1	4.9	3.2	0	27	18.9	11.8	1	32	19.5	12.1	20
37	4.4	2.6	3.0	2.6	0	23	18.4	11.5	0	25	18.3	11.4	13
38	4.3	2.1	2.6	2.3	0	23	18.4	11.5	0	24	18.1	11.3	12
39	6.2	5.5	6.2	4.1	1	30	19.4	12.1	27	17	19.8	12.3	23

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					c ₁ [kPa]	φ ₁ [°]	γ ₁ [kN/m ³]	γ' ₁ [kN/m ³]	c ₂ [kPa]	φ ₂ [°]	γ ₂ [kN/m ³]	γ' ₂ [kN/m ³]	
40	6.8	4.5	6.7	4.5	1	32	19.6	12.2	1	35	19.2	12.0	22
41	7.4	2.6	6.6	4.5	1	35	16.0	10.0	21	16	17.7	11.0	19
42	4.1	4.9	3.5	2.7	11	11	17.7	11.0	1	29	16.5	10.3	18
43	5.5	2.0	4.2	3.5	1	28	17.0	10.6	0	27	18.0	11.2	14
44	5.1	4.3	4.4	3.1	14	13	18.8	11.7	1	30	19.1	11.9	18
45	7.3	3.7	7.0	4.3	19	17	16.1	10.0	0	34	17.1	10.6	21
46	6.4	4.8	6.2	4.3	1	31	16.6	10.3	1	34	16.6	10.3	22
47	5.4	5.4	5.2	3.7	0	27	19.0	11.8	26	16	19.7	12.3	22
48	4.4	2.8	2.9	2.3	0	23	18.5	11.5	0	26	18.4	11.5	14
49	5.5	3.5	4.8	3.8	15	13	19.0	11.8	21	15	18.8	11.7	17
50	6.2	3.5	5.5	3.8	17	15	19.4	12.1	22	16	18.8	11.7	19
51	3.7	2.8	2.2	1.9	11	10	18.1	11.3	17	13	18.4	11.5	12
52	6.5	4.9	6.4	4.1	17	15	16.5	10.3	1	35	16.5	10.3	23
53	3.9	4.6	3.3	2.8	11	11	18.2	11.3	22	14	19.3	12.0	17
54	5.0	2.8	3.8	3.1	0	26	17.3	10.8	19	14	17.6	11.0	15
55	7.0	3.6	6.6	4.7	19	16	19.7	12.3	23	17	18.8	11.7	20
56	4.9	2.5	3.4	2.8	0	25	17.3	10.8	0	26	17.8	11.1	14
57	7.2	2.5	6.3	4.4	19	16	16.1	10.0	0	32	17.8	11.1	18
58	5.3	2.1	4.3	3.9	15	13	18.9	11.8	18	14	18.0	11.2	14
59	3.8	5.6	3.3	2.3	0	21	18.2	11.3	24	15	19.8	12.3	19
60	6.8	4.7	6.7	4.1	1	32	19.7	12.3	1	35	19.3	12.0	23
61	4.3	2.2	3.1	2.8	12	11	18.4	11.5	0	24	18.1	11.3	12
62	5.3	2.1	3.6	2.9	14	13	18.9	11.8	0	27	18.0	11.2	14
63	4.2	3.8	2.9	2.0	0	22	17.7	11.0	20	14	17.1	10.6	15
64	4.2	2.4	3.1	2.9	0	23	17.6	11.0	17	13	17.8	11.1	12
65	7.1	4.3	7.0	4.5	1	33	19.8	12.3	25	17	19.1	11.9	22
66	7.3	3.4	6.9	4.7	1	34	16.1	10.0	23	17	17.3	10.8	21
67	5.6	4.0	4.8	3.3	1	28	17.0	10.6	1	31	17.0	10.6	19
68	5.1	3.9	4.4	3.5	14	13	18.8	11.7	0	29	18.9	11.8	17
69	4.8	3.8	4.0	3.2	13	12	17.4	10.8	0	28	17.1	10.6	17
70	5.9	4.6	5.6	4.1	1	29	16.8	10.5	24	16	16.7	10.4	21
71	6.5	3.0	5.7	4.1	1	31	16.5	10.3	21	16	17.5	10.9	18
72	4.2	4.2	3.1	2.2	12	11	17.6	11.0	21	14	16.9	10.5	16
73	5.1	3.0	4.2	3.6	0	26	18.8	11.7	0	28	18.5	11.5	16
74	6.4	3.3	5.7	4.3	1	31	16.6	10.3	0	31	17.4	10.8	19
75	3.8	5.1	3.0	2.1	0	21	18.2	11.3	23	15	19.5	12.1	18
76	4.9	5.5	4.4	2.5	0	25	17.3	10.8	1	31	16.3	10.1	21
77	6.6	3.0	5.7	4.0	1	31	16.5	10.3	21	16	17.5	10.9	18
78	4.9	5.6	4.6	3.5	0	25	17.3	10.8	1	32	16.2	10.1	21

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					c ₁ [kPa]	φ ₁ [°]	γ ₁ [kN/m ³]	γ' ₁ [kN/m ³]	c ₂ [kPa]	φ ₂ [°]	γ ₂ [kN/m ³]	γ' ₂ [kN/m ³]	
79	5.6	2.5	4.4	3.5	15	14	16.9	10.5	0	28	17.8	11.1	15
80	3.8	3.1	2.7	2.4	0	21	18.1	11.3	18	13	18.5	11.5	13
81	4.3	5.3	3.7	2.6	0	23	17.6	11.0	24	15	16.3	10.1	19
82	5.1	3.2	4.3	3.7	14	13	18.8	11.7	0	28	18.6	11.6	16
83	6.3	3.8	5.7	3.9	17	15	19.4	12.1	23	16	18.9	11.8	20
84	4.8	4.8	4.3	3.3	0	25	17.3	10.8	1	30	16.6	10.3	19
85	5.8	6.0	5.8	3.3	1	29	16.8	10.5	28	17	16.0	10.0	24
86	4.6	4.8	3.8	2.4	13	12	18.5	11.5	23	15	19.4	12.1	18
87	4.7	2.0	3.3	3.0	0	24	18.6	11.6	17	13	18.0	11.2	12
88	4.4	3.4	3.1	2.3	0	23	18.4	11.5	0	27	18.7	11.6	15
89	7.2	4.3	7.1	4.6	1	34	16.2	10.1	1	35	16.9	10.5	22
90	4.6	2.1	3.0	2.6	13	12	18.5	11.5	17	13	18.1	11.3	12
91	5.1	5.9	4.9	3.7	14	13	18.8	11.7	1	33	19.9	12.4	22
92	7.2	4.3	7.1	4.6	1	34	16.2	10.1	1	35	16.9	10.5	22
93	4.1	3.8	3.1	2.5	0	22	17.7	11.0	0	27	17.1	10.6	15
94	4.3	4.7	3.5	2.4	0	23	17.6	11.0	23	15	16.6	10.3	18
95	3.9	2.7	2.8	2.6	0	22	17.8	11.1	0	24	17.6	11.0	12
96	7.4	5.8	7.4	4.8	1	35	16.1	10.0	29	19	16.1	10.0	26
97	6.4	2.9	5.4	3.8	1	31	16.6	10.3	0	31	17.5	10.9	18
98	7.0	4.6	7.0	4.1	1	33	19.7	12.3	26	17	19.3	12.0	23
99	7.0	4.7	7.0	5.0	1	33	19.8	12.3	26	17	19.3	12.0	23
100	5.5	4.3	4.8	3.2	1	28	17.0	10.6	1	31	16.8	10.5	19
101	3.5	5.6	3.0	2.2	0	20	18.0	11.2	1	28	19.8	12.3	18
102	5.5	5.3	5.2	3.6	1	28	17.0	10.6	1	33	16.4	10.2	21
103	7.2	2.9	6.6	5.0	1	34	16.2	10.1	0	33	17.5	10.9	19
104	6.9	5.8	6.9	4.1	18	16	19.7	12.3	1	37	19.9	12.4	25
105	5.2	3.4	4.0	2.9	14	13	18.8	11.7	0	29	18.7	11.6	16
106	7.0	4.9	7.0	4.2	1	33	19.7	12.3	27	18	19.5	12.1	23
107	5.9	4.4	5.4	3.6	1	29	19.2	12.0	1	32	19.2	12.0	20
108	3.9	3.0	3.1	2.8	0	22	17.8	11.1	0	25	17.5	10.9	13
109	4.4	2.5	3.0	2.6	12	11	18.4	11.5	0	25	18.2	11.3	13
110	5.6	4.1	4.9	3.5	15	14	16.9	10.5	1	31	17.0	10.6	19