ΕΔΑΦΟΜΗΧΑΝΙΚΗ ΙΙ: 2013-2014

Ενδεικτικές αριθμητικές λύσεις για την 5η Παραδοτέα Άσκηση

X	Y	$\sigma'_{h\Gamma}$ (kPa)	A (KN/m)	T_{max} (KN/m)	P_a' (kN/m)	$P_{w\delta}$ (kN/m)	$FS_{o\lambda}$	$FS_{\alpha\nu}$
0	1	36.22	72.50	172.08	134.21	55.12	1.32	1.70
0	2	35.27	71.17	174.60	132.98	51.38	1.44	1.76
0	3	34.29	70.10	177.01	131.54	48.37	1.56	1.82
0	4	33.28	69.21	179.35	129.96	45.88	1.69	1.88
0	5	32.24	68.47	181.64	128.25	43.79	1.84	1.93
0	6	31.19	67.84	183.88	126.46	42.01	2.01	1.98
0	7	30.12	67.29	186.09	124.59	40.49	2.20	2.04
0	8	29.04	66.82	188.27	122.66	39.16	2.42	2.09
0	9	27.95	66.40	190.43	120.69	37.99	2.68	2.15
1	0	43.12	90.83	235.88	173.64	69.54	1.26	1.86
1	1	42.28	88.55	239.16	173.04	63.55	1.35	1.93
1	2	41.37	86.76	242.25	172.06	58.85	1.44	1.99
1	3	40.41	85.32	245.20	170.83	55.06	1.54	2.04
1	4	39.41	84.14	248.06	169.41	51.95	1.64	2.09
1	5	38.40	83.15	250.84	167.84	49.35	1.74	2.14
1	6	37.36	82.31	253.56	166.16	47.14	1.86	2.19
1	7	36.30	81.59	256.24	164.39	45.23	1.98	2.23
1	8	35.23	80.96	258.88	162.55	43.58	2.12	2.28
1	9	34.15	80.41	261.49	160.65	42.13	2.27	2.32
2	0	49.14	108.01	313.21	216.02	80.10	1.30	2.07
2	1	48.34	105.07	317.14	215.77	72.74	1.38	2.14
2	2	47.46	102.78	320.82	215.07	66.99	1.46	2.20
2	3	46.53	100.93	324.33	214.05	62.37	1.54	2.25
2	4	45.56	99.41	327.72	212.81	58.58	1.63	2.30
2	5	44.55	98.15	331.00	211.38	55.41	1.71	2.34
2	6	43.53	97.07	334.22	209.83	52.72	1.80	2.38
2	7	42.48	96.15	337.37	208.16	50.41	1.89	2.42
2	8	41.42	95.35	340.48	206.42	48.41	1.99	2.46
2	9	40.35	94.65	343.55	204.60	46.65	2.10	2.50
3	0	55.16	125.75	401.41	262.12	91.55	1.35	2.27
3	1	54.40	122.07	406.02	262.24	82.72	1.42	2.33
3	2	53.56	119.21	410.32	261.83	75.82	1.49	2.39
3	3	52.65	116.91	414.41	261.04	70.30	1.56	2.44
3	4	51.70	115.03	418.33	259.98	65.77	1.63	2.49
3	5	50.71	113.45	422.14	258.71	61.98	1.71	2.53
3	6	49.70	112.12	425.85	257.29	58.78	1.78	2.57
3	7	48.67	110.98	429.49	255.74	56.03	1.86	2.61
3	8	47.62	109.99	433.07	254.08	53.64	1.94	2.64
3	9	46.56	109.12	436.61	252.35	51.55	2.02	2.68
4	0	61.19	144.03	500.48	311.76	103.90	1.39	2.44
4	1	60.47	139.55	505.80	312.28	93.47	1.46	2.51
4	2	59.65	136.06	510.74	312.18	85.34	1.53	2.57
4	3	58.77	133.27	515.42	311.63	78.84	1.59	2.62
4	4	57.84	130.98	519.90	310.76	73.51	1.65	2.67
4	5	56.87	129.07	524.23	309.66	69.07	1.72	2.71
4	6	55.87	127.46	528.46	308.37	65.31	1.78	2.75
4	7	54.85	126.07	532.59	306.94	62.08	1.85	2.78
4	8	53.81	124.87	536.65	305.38	59.28	1.91	2.82
4	9	52.76	123.82	540.66	303.74	56.84	1.98	2.85
5	0	67.21	162.86	610.42	364.79	117.14	1.43	2.61

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X	Y	σ΄hΓ (kPa)	A (KN/m)	T_{max} (KN/m)	P_a' (kN/m)	$P_{w\delta}$ (kN/m)	$FS_{o\lambda}$	$FS_{\alpha\nu}$
5	1	66.54	157.50	616.49	365.72	105.00	1.50	2.68
5	2	65.75	153.33	622.09	365.94	95.56	1.56	2.74
5	3	64.89	150.00	627.37	365.65	88.00	1.62	2.79
5	4	63.98	147.27	632.42	364.99	81.82	1.68	2.84
5	5	63.03	145.00	637.30	364.05	76.67	1.74	2.88
5	6	62.04	143.08	642.04	362.91	72.31	1.79	2.91
5	7	61.04	141.43	646.67	361.60	68.57	1.85	2.95
5	8	60.01	140.00	651.22	360.15	65.33	1.91	2.98
5	9	58.96	138.75	655.70	358.60	62.50	1.97	3.01
6	0	73.24	182.23	731.25	421.04	131.29	1.47	2.76
6	1	72.60	175.92	738.07	422.41	117.32	1.54	2.83
6	2	71.85	171.02	744.36	422.96	106.46	1.60	2.89
6	3	71.02	167.11	750.27	422.93	97.78	1.65	2.95
6	4	70.12	163.91	755.90	422.49	90.69	1.71	2.99
6	5	69.19	161.24	761.33	421.73	84.78	1.76	3.03
6	6	68.22	158.98	766.59	420.74	79.78	1.81	3.07
6	7	67.22	157.05	771.74	419.55	75.50	1.86	3.10
6	8	66.20	155.38	776.78	418.22	71.79	1.91	3.14
6	9	65.17	153.91	781.75	416.77	68.55	1.97	3.16
7	0	79.27	202.15	862.94	480.36	146.35	1.51	2.90
7	1	78.67	194.82	870.56	482.18	130.42	1.57	2.98
7	2	77.95	189.13	877.55	483.07	118.06	1.63	3.04
7	3	77.14	184.59	884.10	483.32	108.19	1.68	3.10
7	4	76.27	180.88	890.33	483.11	100.12	1.73	3.14
7	5	75.35	177.79	896.32	482.54	93.41	1.78	3.18
7	6	74.39	175.18	902.13	481.70	87.73	1.83	3.22
7	7	73.41	172.94	907.79	480.65	82.87	1.88	3.25
7	8	72.40	171.00	913.33	479.43	78.66	1.93	3.28
7	9	71.37	169.31	918.78	478.08	74.98	1.97	3.31
8	0	85.29	222.62	1005.51	542.59	162.31	1.55	3.03
8	1	84.74	214.20	1013.96	544.88	144.31	1.61	3.11
8	2	84.05	207.66	1021.67	546.13	130.35	1.66	3.18
8	3	83.26	202.45	1028.88	546.67	119.22	1.72	3.24
8	4	82.41	198.19	1035.72	546.69	110.12	1.76	3.28
8	5	81.51	194.65	1042.28	546.31	102.55	1.81	3.32
8	6	80.56	191.65	1048.63	545.64	96.16	1.86	3.36
8	7	79.59	189.09	1054.82	544.73	90.68	1.90	3.39
8	8	78.60	186.87	1060.87	543.63	85.94	1.94	3.42
8	9	77.58	184.93	1066.82	542.38	81.79	1.99	3.45
9	0	91.32	243.63	1158.96	607.58	179.17	1.58	3.16
9	1	90.81	234.04	1168.25	610.35	158.99	1.64	3.24
9	2	90.15	226.61	1176.71	611.98	143.34	1.70	3.31
9	3	89.39	220.68	1184.59	612.82	130.87	1.75	3.37
9	4	88.55	215.84	1192.06	613.07	120.68	1.80	3.42
9	5	87.67	211.82	1199.21	612.90	112.21	1.84	3.46
9	6	86.74	208.42	1206.11	612.39	105.06	1.88	3.50
9	7	85.78	205.51	1212.83	611.63	98.93	1.92	3.53
9	8	84.79	202.99	1219.40	610.65	93.63	1.97	3.56
9	9	83.78	200.78	1225.85	609.51	88.99	2.01	3.59
0	0	37.11	74.19	169.43	135.14	59.86	1.22	1.63