Calculation of settlement with improvement through stone columns DC-Vibro

- Analysis of the soil improvement with the approach by Priebe, bearing capacity analysis acc. to DIN 1054:2005, DIN 4017:2006, SIA 267
- German, English, French, Romanian program version
- Any number of footings with individual soil layers for every analysis section
 - Single, strip and circular footings
 - as well as infinite load area
 - Different load cases
 - Variable soil layers with different column diameters
 - Column parameters defined per layer, e.g. for mortar injected stone columns

Depth	Foundation	Superimposed	Stress	s without	s infinite	Factor	Settlement
	stress	stress	ratio	improvement	load area	footing	of footing
		from soil	Found./Soil	for foundation	with improv.		with improv.
[m]	σ _F [kN/m²]	σ, [kN/m²]		[mm]	[mm]	[%]	[mm]
0.50	275.00	9.50	28.95	0.00	0.00	100.00	0.00
1.50	190.85	28.50	6.70	9.79	6.51	88.24	5.75
2.50	129.18	47.50	2.72	18.77	8.89	74.26	6.60
3.00	112.42	57.00	1.97	7.40	4.45	62.93	2.80
4.00	88.71	66.00	1.34	12.28	8.42	53.10	4.47
5.00	71.47	75.00	0.95	7.89	13.52	28.17	3.81
5.50	64.39	79.50	0.81	3.37	6.76	22.67	1.53
6.50	52.62	91.00	0.58	1.93	4.72	32.67	1.54
7.00	47.72	96.75	0.49	0.83	2.36	26.79	0.63
8.00	39.55	108.25	0.37	1.44	9.15	100.00	1.44
9.00	33.11	119.75	0.28	1.20	9.16	100.00	1.20
10.00	27.99	131.25	0.21	1.01	9.16	100.00	1.01
11.00	23.90	142.75	0.17	0.86	9.16	100.00	0.86
Sum				66.78	92.27		31.66

Improvement of the settlement

- Column arrangement in a triangular or rectangular grid with different distances
- Immediate display of the arrangement by preview function
- Calculation of the settlement with improvement, alternatively comparison without improvement
- Calculation of the bearing capacity with and without improvement

Fast editing of the parameters by jumping from the results to the input

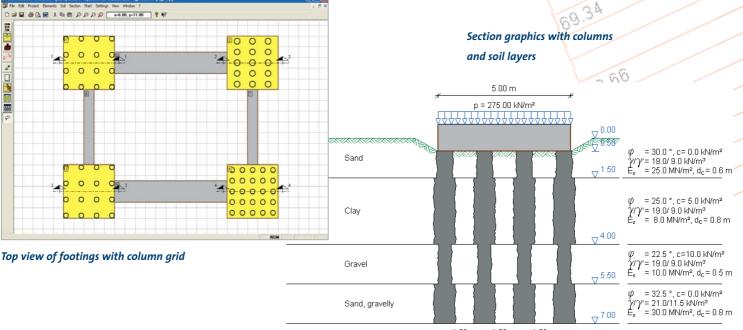
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Clear display of results with section graphics

0

 Display of the stresses and settlements in a diagram



1.50 m 1.50 m 1.50 m