

Settlement Analysis

Organization: **ABC**
Project Name: **Eng-Tips**
Job #: **12345**
Design by: **ABC**
Date: **6/23/2012**



Foundation Geometry, GWT & Loading

Units: **SI**
Footing Shape: **Square**
Method: **Terzaghi & Peck**

Variable	Value	Variable	Value
Footing Width	2.00 m	Ground water Depth	2.5 m
Footing Thickness	0.70 m	Rigidity factor	0.8
Footing Length	2.00 m	Max. Depth	10.00 m
Embedment Depth	0.70 m	Axial Load	2.2 kN

Geotechnical Properties

#	Material Type	USCS	Layer Thick, m	Consistency	Compr. Ratio Cc/(1+e)	Recompr. Ratio Cr/(1+e)	OC Margin sigma m' kPa	Un. Weight gamma kN/m ³
1	Granular Soil	SW	1.00 0 - 1	Loose	0.050	0.010	0	20.5
2	Geofoam Block		1.50 1 - 2.5		0.010	0.002	0	0.3
3	Peat		7.50 2.5 - 10		0.330	0.100	0	13.5

Results

Applied q: 17.1 kPa
Total Settlement: 6.109 mm

