

# PILE BEARING

CALCULATE THE BEARING CAPACITY AND  
DESIGN REINFORCED CONCRETE PILES  
GEOTECHNICAL | E14

## Summary

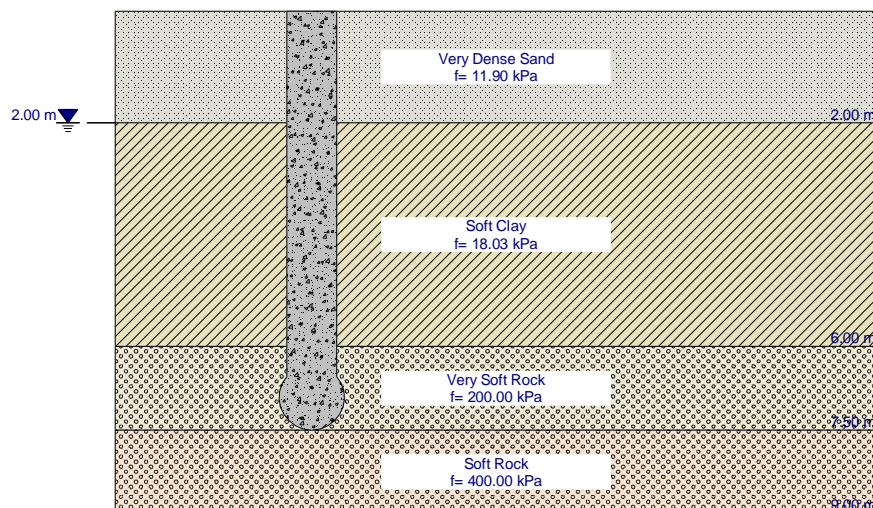
Pile Bearing can calculate the bearing capacity of piles considering the effects of pile length and diameter, installation type and soil conditions.

## What makes this module special?

- Circular and Square pile design
- Graphical output
- Analysis results grouped on a Calcsheet

## Detailed Description

Pile Bearing can calculate the bearing capacity of piles considering the effects of pile length and diameter, installation type and soil conditions. The load transfer functions comprise two components: a side shear transfer function and an end bearing transfer function.

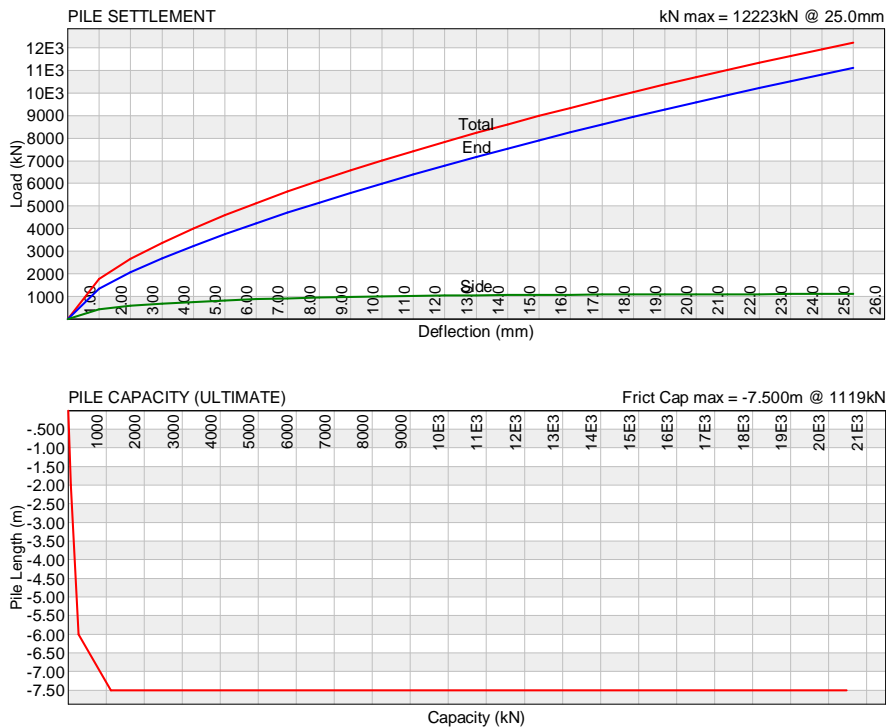


An analysis output table provides a summary of the friction and end bearing forces for each layer, for the allowable pile capacities, as well as the totals. A summary of the SLS and ULS settlements is also given. Additionally, the pile capacity vs pile length and the pile load vs deflection graphs are plotted.



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## Theory used in this module

One of the simplest and most elegant methods to predict load/deformation curves is that proposed by Everett J.P. "Load Transfer Functions and Pile Performance Modelling, Geotechnics in the African Environment" (1991)". The load transfer functions comprise two components: a side shear transfer function and an end bearing transfer function.