

Geotechnical Engineering Software

Comprehensive stability analysis for gravity retaining walls

Greta analyses the stability of a gravity retaining wall and determines the bending moments and shear forces within the wall. The software allows the user to calculate sliding resistance and bearing capacity of the wall.



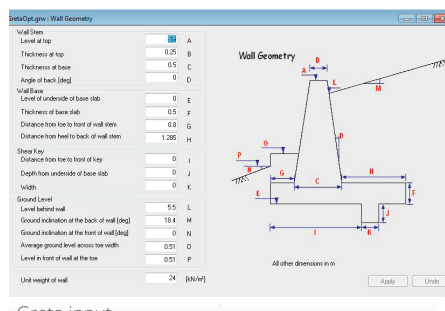
Design of retaining walls for roadsides and motorways

How Greta works

Greta software asks the user for two sets of earth pressure coefficients behind and in front of the wall. One set is used to calculate bending moments and shear forces in the stem, heel and toe of the retaining wall and the other is used to work out the resultant force on the base.

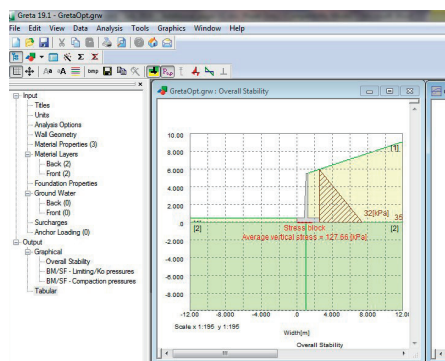
The user must independently assess

whether the resultant force on the base would be sufficient to cause a sliding, overturning or a bearing capacity failure within the soil under the toe. Sliding resistance and bearing capacity are calculated by the program.



Greta input

For flexible retaining wall analysis, take a look at Frew or consider Safe for complimentary 2D Finite element analysis software.



Greta output

Benefits

- Everyday tool for retaining wall problems
- Intuitive software that allows for fast data input
- Comprehensive post-processing with detailed reporting



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