

Comprehensive stability analysis for gravity retaining walls

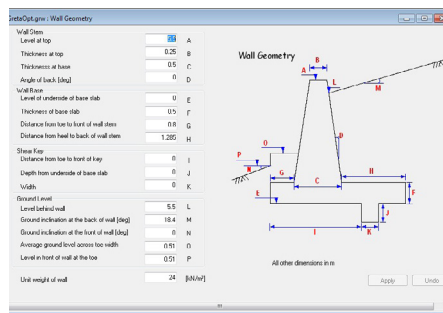
Greta analyses the stability of gravity retaining walls and determining the bending moments and shear forces within them. The software allows users to calculate sliding resistance and bearing capacity of the wall.



Design of retaining walls for roadsides and motorways

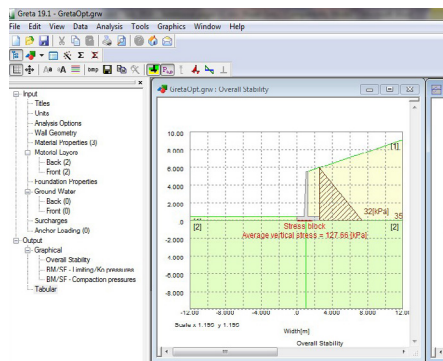
How Greta works

Greta software asks users 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



Greta input

stem, heel and toe of the retaining wall and the other is used to work out the resultant force on the base.



Greta output

Users 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.

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

Contact oasys@arup.com for more information.

Benefits

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