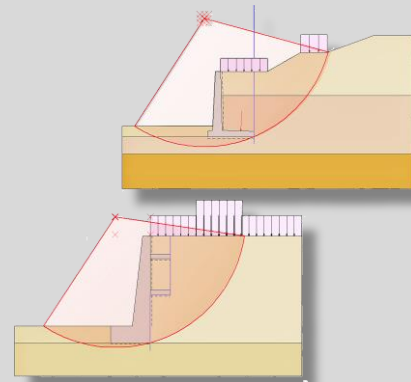


## RTimes

11.10.352 Analysis and design of angular retaining walls

### Analysis and design of angular retaining walls

- Geotechnical certificates according to DIN 1054 as well as EN 1997 and corresponding NAs for DE & AT
- RC-Design of Wall according to DIN 1045, DIN 1045-1, DIN FB 102, EN 1992 & NAs for DE, UK, CZ/SK, AT
- Classical earth pressure approach as well as earth pressure determination according to DIN, EN or Culmann, proof of ground breakage, settlement and sole pressure
- Consideration of a wall spur in the slip safety and terrain fracture analysis
- Additional dimensioning for GZG incl. WU concrete
- Graphic-interactive design functions with CAD interface



**LIMES** is the RIB program for the calculation and design of supporting walls, angular retaining walls and gravity walls. The graphically interactive working environment allows an easy workout of wall, terrain, soil layer and load. Gliding, tilting, permissible sole pressures and terrain fracture are verified/issued for both terrain incisions and river banks.

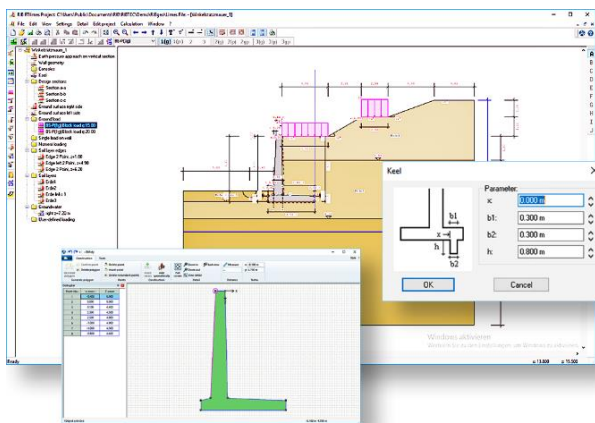


Tel: +49 711 7873-157

E-Mail: [structuralengineering@rib-software.com](mailto:structuralengineering@rib-software.com)  
[www.rib-software.com/structural-engineering](http://www.rib-software.com/structural-engineering)

RIB Software SE, Headquarters Stuttgart, Local Court Stuttgart HRB 76045.

Managing Directors: Thomas Wolf, Michael Sauer, Mads Bording.  
 Chairman of Executive Board: Thomas Wolf.



### RTimes Features

Windows® programme with graphically interactive working environment for the calculation and design of retaining walls, angular retaining walls and gravity walls. The application supports the following functions:

- geotechnical design according to DIN 1054 as well as EC 7 and EN 1997-1 and NADs for DE, AT & CZ/SK
- wall design according to DIN 1045, DIN 1045-1, EC2, EN 1992-1 and according NADs for DE, AT & CZ/SK
- design of wall for steel or glass fibre reinforcement
- parameterisable, polygonal ground level and ground database
- graphically interactive construction supports as well as tabular polygon processing
- processing of special forms with free polygon processing
- graphically interactive processing of consoles

- consideration of different earth pressure approaches for the stability analyses
- consideration of the earth pressure, earth pressure on repose, or increased active earth pressure during design
- optionally pre-setting/limitation of the downhill earth resistance
- pre-setting of an effect level for the earth pressure onto a fictive vertical wall, a counter slip surface or the trailing edge of the retaining wall
- different forms of earth pressure redistribution
- automatic and manual generation of design sections

This application contains additional analyses for:

- classical earth pressure method or evaluation according to DIN 4085, EC 7 and EN 1997-1 and NADs for DE, AT & CZ/SK
- sliding and overtuning safety according to DIN 1054, EC 7 and EN 1997-1 and national annexes for DE, AT & CZ/SK
- slope stability according to DIN 4084, EC 7 and EN 1997-1 and national annexes for DE, AT & CZ/SK (slice method according to Bishop)
- bearing capacity safety according to DIN 4017, EEC 7 and EN 1997-1 and national annexes for DE, AT & CZ/SK
- settlement analysis according to the method of DIN 4019, EC 7 and EN 1997-1 and national annexes for DE, AT & CZ/SK
- analysis of the medium base pressure according to DIN 1054, EC 7 and EN 1997-1 and national annexes for DE, AT & CZ/SK

# Product Information

- bending and shear design according to DIN 1045, DIN 1045-1, DIN technical reports 102, EC2 und EN 1992 and according to national annexes for DE, UK, CZ/SK, AT
- serviceability design according to DIN 1045, DIN 1045-1, DIN technical reports 102, EC2 und EN 1992 and according to national annexes for DE, UK, CZ/SK, AT
- Consideration of requirements for minimum surface reinforcement as well as water resistant concrete

The output of text and graphics is performed via Windows® service programmes for the static system of the retaining wall, earth pressures with redistributions, shear force and deformation distribution as well as the friction circle and base failure analysis.

## Result output with RTconfig

With the new individual list output, all tabular and graphical results can be printed for a specific office.

With the export in RTprint, RTF (Word) or BauText the results can be further modified. Using the feature "Digital Statics": graphics, details or Excel macros etc. can be inserted into the structural analysis printout, filed or sent by e-mail.

