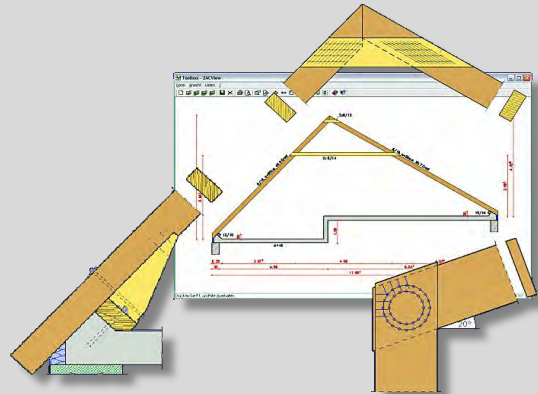


RTool

11.10.120 Collection of design tools

Collection of design tools for Reinforced concrete, steel, timber and brickwork

- Reinforced concrete, steel and timber design according to DIN and EN with corresponding national annexes for DE, AT, SK/CZ and UK
- Brickwork analysis according to DIN 1053-100 & DIN EN 1996-3/NA
- Simple handling for efficient and clear operation
- Graphic-interactive working environment with sensitive elements and dimension chains
- Versatile collection of proofs for reinforced concrete, brickwork, steel construction and timber construction
- Integrated software solutions for calculation, design and drawing



Collection of structural engineering proofs with easy handling as well as graphically interactive input, analysis and output of results. Individual proofs also provide information and suggestions for the design of the applied programs This includes in particular CAD drawings for timber constructions and for reinforcement.



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Managing Directors: Thomas Wolf, Michael Sauer, Mads Bording.

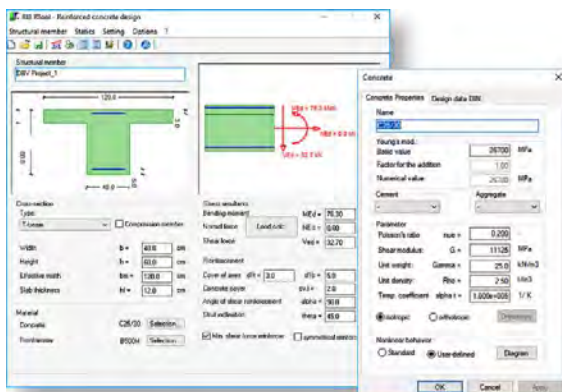
Chairman of Executive Board: Thomas Wolf.

RTool Features

Collection of design tools under Windows® for engineering proofs with simple handling as well as graphically interactive input, calculation and output of the results. Some individual proofs also provide information and suggestions on the construction of the processed structural members. This particularly includes CAD drawings for the reinforcement. The collection contains the following engineering proofs for different materials, such as

Reinforced Concrete:

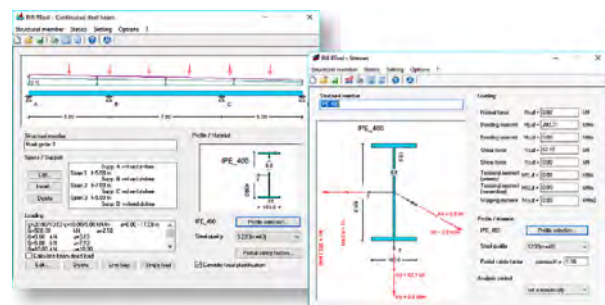
- morticed reinforced concrete beam with framework model according to Finger-loos/Stenzel
- box out design in reinforced concrete beams (according to design booklet 399 or 459 DAfStb) incl. reinforcement suggestion



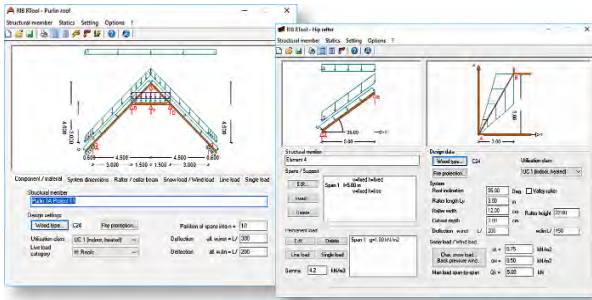
- elastically bedded reinforced concrete beam with loss of bedding
- punching verifications incl. reinforcement suggestion for Schöck or HALFEN dowel bars
- bracket design
- uniaxial reinforced concrete design incl. reinforcement suggestion
- proofs for vibration stress ranges and strains
- design according to DIN 1045-1, EN 1992-1-1 and corresponding national annexes for DE, AT, SK/CZ and UK

Steel Construction

- verification of lateral-torsional buckling for symmetric profiles
- design of continuous steel beams
- verification of steel stress
- design according to DIN 18800 and EN 1993-1-1 and corresponding national annexes for DE, AT, SK/CZ and UK



Product Information



- consideration of load contributions and evaluation of wind and snow loads for DIN 1055 and EN 1991 and corresponding national annexes for DE, AT, SK/CZ and UK
- assemblage of loads for DIN 1055 and EN 1991 and corresponding national annexes for DE, AT, SK/CZ and UK as load combinations

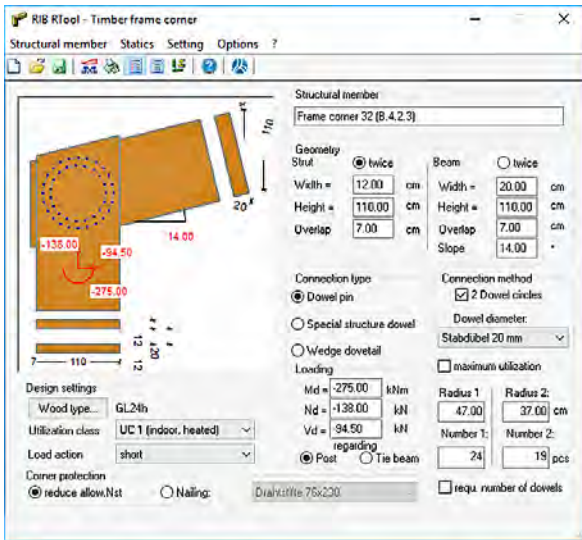
Brickwork

- simple proof for masonry according to DIN 1053-1 part I, DIN 1053-100 and DIN EN 1996-1

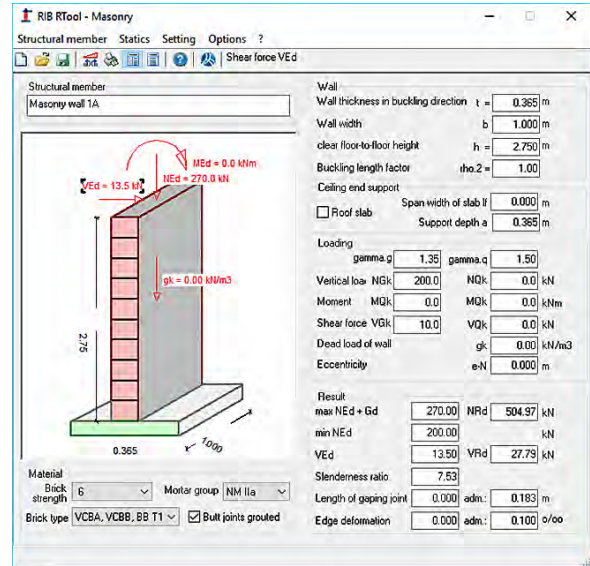
Timber Construction

All verifications in timber construction are performed in accordance with DIN 1052:2004. All relevant proofs are performed also for structural fire design. The load parameters for the roof design tools are shown in the integrated snow and wind load zone maps for Germany or the respective DIBt charts.

- continuous timber beam incl. proof for vibration of timber slabs
- continuous timber rafter
- one-storey timber column
- collar beam roof incl. verification for ridge and base points, collar beam connection and rafter support
- rafter roof incl. verification for ridge and base points as well as rafter supports
- purlin roof incl. verification for ridge and base points as well as rafter supports
- complete construction suggestion for the planning of all three roof types incl. detailed drawings of the ridge and base points as well as all collar beam connections
- spatial collar and ridge rafter
- bending rigidity of timber frame corner



- couple and rafter purlins
- evaluation of wind and snow loading according to DIN respectively EN 1991 and corresponding national annexes for DE, AT, CZ/SK and UK
- timber design according to DIN 1052:2008, EN 1995-1-1 and corresponding NAs for DE, AT, SK/CZ and UK
- The loads are evaluated according to the following codes for all timber design modules



Result output with the new RTconfig

With the new individual list output, all tabular and graphic results can be displayed for a specific office. With the export to RTprint, Word (RTF) or BauText the results can be further modified. "Digital statics" allows graphics, details or Excel macros etc. to be inserted into the static printout.

