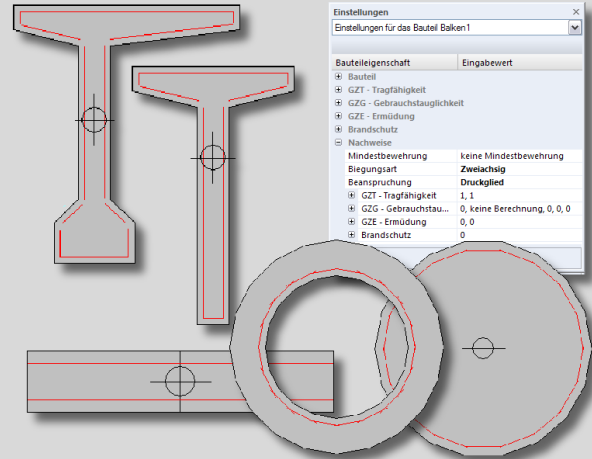


RTcdesign

- 11.10.282 Design of concrete cross-sections
- 11.11.283 RTcdesign ULS Design
- 11.11.284 RTcdesign SLS Design
- 11.11.285 RTcdesign FLS Design
- 11.11.286 RTcdesign Bridge
- 11.11.290 RTcdesign Prestressing

Design of concrete cross-sections

- Design according to DIN 1045-1, DIN FB 102 and EN 1992 with consideration of national annexes for DE, UK, CZ/SK, AT
- Standardised, symmetrical and asymmetrical reinforced concrete cross-sections in building and bridge construction
- Dimensioning of typical beam cross-sections as well as slab, plate and shell cross-sections
- Reliable one- or two-axis design with bending, normal force, shear force and torsion
- Automatic load case superposition for extreme load conditions
- Fire protection design for components under compressive and flexural stress in analogy to the tabular fire protection designs

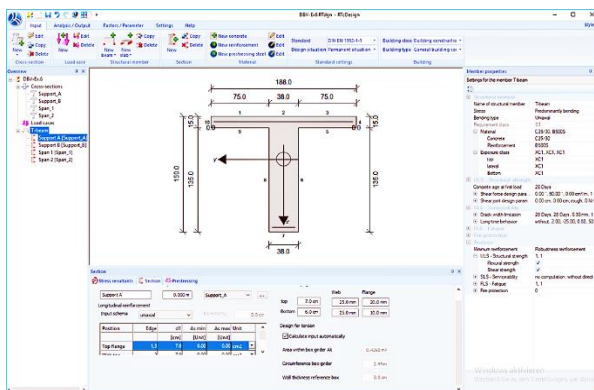


With the RIB program RTbetonbemessung, cross-sections of reinforced or prestressed concrete can be dimensioned with one or two axial loading in structural and bridge engineering. Different cross-section shapes, stress conditions and reinforcement arrangements can be taken into account. Depending on the optional configuration, GZT, GZG and GZE verification can be carried out and an applied prestressing can be taken into account. The results are configured in a list preview and printed out in a clear and verifiable form.



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



RTcdesign Features

Basic programme module for the design of different concrete cross-sections of buildings and bridges

- rectangles
- T-beam width participating slab (constant slab width)
- I-Beam (constant upper and lower flange)
- I-Beam (variable upper, lower flange and web thickness)
- circle/ring
- plate/shell

for different stresses in the cross-section

- predominant bending stress
- design as compression member – without stability design
- uniaxial & biaxial bending- and shear stress

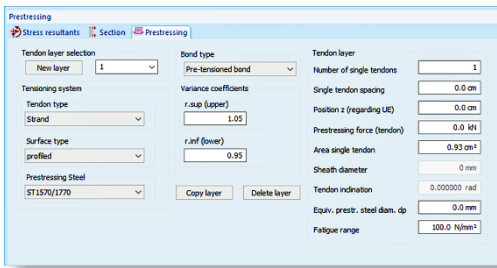
material

- regular concrete material (up to C50/60)
- high-performance concrete material HC (C55/67 to C100/115) and ultra-high-performance concrete material UHC140
- profilered reinforcement bar and high strength steel SAS670
- glass fibre reinforcement ComBAR and HFR
- consideration of different effects with alternative input features
- stress resultants of design combination
- stress resultants of original load cases with automatic superposition

application of different design codes

- DIN
- EN 1992-1 and according national annexes for DE, AT, SK/CZ and UK

Product Information



Clear and transparent Output

For the control and configuration of the results different stages are provided:

- short list – for each section with essential design information
- compact list - for each section with all design results on one page
- detailed list - each design task on one page

Only the marked objects in the tree structure of the pre-viewed results are printed. All settings are stored for a repeated display of the results after a restart of the program.

