

RFEM EURO CONCRETE - Reinforced Concrete Package

The reinforced concrete package includes:

- RFEM
- RF-CONCRETE
- RF-CONCRETE Columns
- RF-PUNCH
- RF-CONCRETE NL
- RF-CONCRETE Deflect
- RF-FOUNDATION Pro

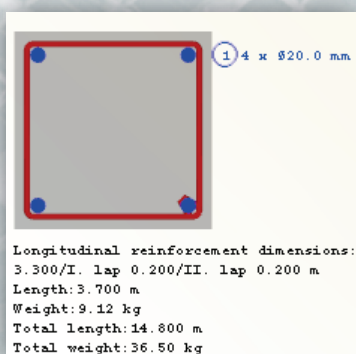
RF-CONCRETE

The add-on module RF-CONCRETE is used for the design of structural components made of reinforced concrete. RF-CONCRETE performs the reinforced concrete design of surfaces, members, and sets of members for the ultimate and the serviceability limit state according to

EN 1992-1-1:2004 + AC:2010

RF-CONCRETE Columns

The add-on module RF-CONCRETE Columns is a powerful software tool of the RFEM program family used to design reinforced concrete. Take advantage of RF-CONCRETE Columns to perform the ultimate limit state design for rectangular or circular compression elements according to the model column method (method based on nominal curvature).

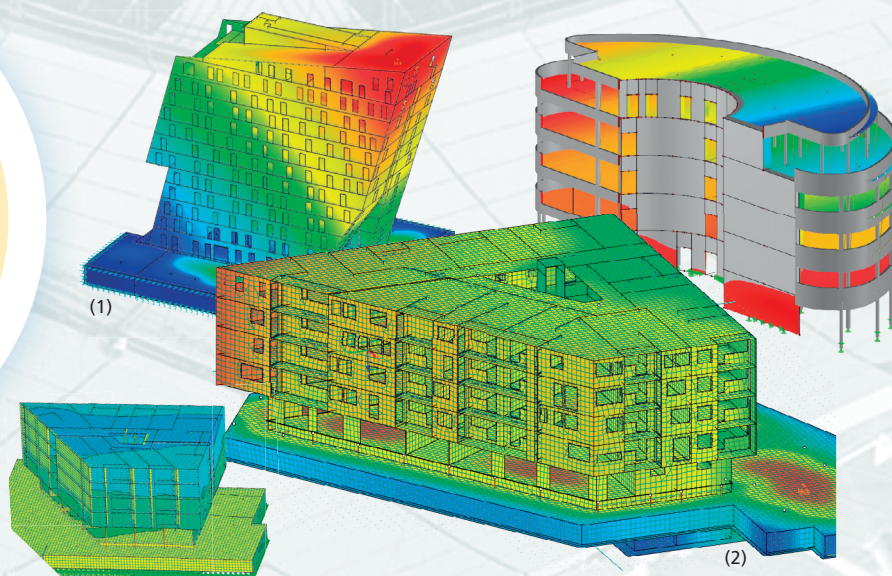


RF-PUNCH

The RFEM add-on module RF-PUNCH is used for the design of punching shear resistance for surfaces supported by columns or nodal supports. The governing punching load is automatically determined from the specified load. However, it is also possible to apply a concentrated punching load to a plate manually. RF-PUNCH allows for a quick punching shear design without entering a lot of data. The following Standard is available:

EN 1992-1-1:2004 + AC:2010

(1) © www.ingena.info, (2) © www.agabau.at



RF-CONCRETE NL

The add-on module RF-CONCRETE NL is an extension to the RF-CONCRETE program group. RF-CONCRETE NL allows for a realistic calculation of deformations, stresses, and crack widths of plates, walls, planar structures, and shells made of reinforced concrete by taking into account the nonlinear behavior of the composite material when determining internal forces and deformations. The nonlinear calculation is specified in the following Standard:

EN 1992-1-1:2004 + AC:2010

RF-CONCRETE Deflect

This add-on module is used for deformation analysis of shell structures taking into account the cracked state. Creeping, shrinkage, and tension stiffening between the cracks can be included in the deformation analysis.

RF-FOUNDATION Pro

The add-on module FOUNDATION Pro is used to design single, bucket, and plate foundations for all support forces of an RFEM model according to:

EN 1992-1-1

EN 1997-1

The following foundation types are available:

- Foundation plate
- Bucket foundation with smooth bucket sides
- Bucket foundation with rough bucket sides
- Single foundation with rough sides

