General

Version 19.0

Build	Module	Description	ID
11.04.19	User interface	The tab "Input" was divided into "Project" and "System" in the ribbon bar.	13245
11.04.19	User interface	The corresponding table is now activated when clicking onto an entry in the object tree.	13060
11.04.19	General	Saving to a different directory than the project directory is now possible when archiving a position.	13006

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Build	Module	Description	ID
24.07.18	User interface	Automatically transferred design combinations were no longer sorted after a restart of the project.	12805
11.06.18	User interface	When user-defined and automatically generated load case combinations exist these were not numbered consecutively.	12666
20.04.18	General	An existing position name is now suggested as file name when using "Save as".	11991
20.04.18	Output document	If horizontal forces are acting in the origin, the axes of coordinates was not identifiable in the graph of the load cases.	11727
20.04.18	Output document	The dimension lines for the cross-section and the reinforcement ratio were hardly readable in the system graph.	11726
20.04.18	User interface	The display of some components in the graphical user-interface has been adjusted, in order to consider the specified scaling in the display settings of the operating system.	12365
20.04.18	User interface	The pre-installed examples can now be opened directly via the new function "Open examples" in the ribbon menu (Area A).	12000
20.04.18	User interface	The project file and the corresponding *.res folder can be archived as *.zip file via the new function "Archive project" in the ribbon menu (Area A).	11930
20.04.18	User interface	The current objects of the clipboard are now listed in the context menu functions, which serve the clipboard functions "cut / copy / paste".	11664
20.04.18	General	Texts for the task and the position were cut-off after 21 characters.	9878
20.04.18	User interface	Modifications in the color settings can now also be saved as default.	9421
20.04.18	User interface	When importing a single-storey column supported at the top and the bottom from a *.bev file, the supports at the column head were not displayed in 3D view although the supports existed.	11657
20.04.18	User interface	Wrong coefficients were used for the automatic earthquake combinations.	8154
20.04.18	User interface	Not only the content of the cell, but also the corresponding objects were deleted when deleting a selected cell.	8107
20.04.18	Input	The program often terminated when entering the project information.	11447

Release Notes
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Version 17.0

Build	Module	Description	ID
22.09.17	User interface	The program terminated when switching from the zone design to the tabular fire protection, if the property window was not attached.	11757
22.09.17	Load transfer	The load factor was not considered.	11847
19.07.17	Input	When entering values into the table of the loads the focus skipped to the property window repeatedly, which sometimes lead to unwanted modifications.	11448
10.04.17	Output document	The readability of the indices in the dimension lines of the cross-section has been improved. (An installation of the updated base package is required for this.)	11257
10.04.17	User interface	Do multiple load cases with the same live load attribute exist, then these are considered all together as a group in the automatic combination generation. Now, individual load cases can be excluded from this grouping via the context menu in the tree view, so that those can act individually or in combination with the others.	11217
13.02.17	General	There were modifications made in the base package (e.g. in RTreport), which influence this program. For this, please read the release notes of RTbase.	10948
13.02.17	General	Was a different project to be opened while working on a project, then there was no dialog whether the modifications at the current project should be saved.	9497
13.02.17	User interface	The maximum dimensions of the cross-sections as well as the static cross-section values are displayed in the property window for all types of materials.	10244
13.02.17	User interface	The entry *Supports* in the object tree has been extended to *Supports and pre-deformation* in order to find the definition of the pre-deformations more easily.	10115
13.02.17	User interface	The support in x-direction was being displayed, although none had been defined.	9625

Reinforced concrete

Version 19.0

Build	Module	Description	ID
11.04.19	Output document	The restraining moments are now output independently of the existing support conditions.	13419
11.04.19	Output document	Ausgabeliste Kriechverformung. Für die elastische Verformung in y-Richtung im Zustand "mit Kriechen" wurde immer 0.0 mm ausgegeben	13292
11.04.19	Output document	Sometimes a required shear reinforcement was issued in the summary, although it is not necessary in this segment.	13272
11.04.19	Design	**Tabular fire protection** The columns are not designed according to table 5.2a, but with the equation 5.7. The scope of application is l,col = 6,0 m, i.e. lo,fi <= 3.0 m for columns with rectangular cross-sections and a rotationally restrained support. For columns with R30 a rotationally free support is assumed, so that the scope of application is l,col = 12,0 m, i.e. lo = lo,fi <= 6.0 m.	13154
11.04.19	Design	A warning message is now issued, if the reinforcement type in the cold design (at the cross-section) and in the zone method differs.	8171
11.04.19	User interface	The program no longer terminates when clicking into the graphic of the flame application dialog.	13070

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Build	Module	Description	ID
20.04.18	Calculation	A minimum stirrup reinforcement has been calculated for biaxial bending according to the inclination of the resultant from a skew width. From now on, the calculation is carried out for each axis with the corresponding cross-section widths. The shear force design is still carried out for biaxial bending.	12490
20.04.18	Input	There is now a separate entry for the edge axis distance of the reinforcement for the temperature calculation of a multipart reinforcement (3x4 / 5x4).	11455
20.04.18	Output document	The dimensioning of the H-section was upside-down in the system graph.	10317
20.04.18	Calculation	Line loads with the length = 0 are no longer considered, since there were errors in the calculation.	12089

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Build	Module	Description	ID
25.10.17	User interface	The call-up of ZAC is possible again.	11853
19.07.17	Design	**Hot design** A distinct edge-axis-distance of the reinforcement can now be specified in the thermal analysis for the zone method and in the tabular fire protection analysis. Was no input made, the edge-axis-distance defined for the cross-section will still be used.	11296
13.02.17	General	The interface file *.bif for the foundation loads is, just like already for steel columns, stored only in the *.besx.res folder with the result files.	9913
13.02.17	Output document	The creep coefficient phi.t is also issued in the table of the load case combinations, even if the option *phi.t all equal* has been selected in the input.	10335
13.02.17	Output document	The ductility has been added in the table for the material coefficients of the reinforcing steel.	10165
13.02.17	Output document	The creep deformations are now also being issued.	9620
13.02.17	Output document	The summary of the results is no longer issued, if there were errors in the calculation.	9621
13.02.17	Design	The user-defined coefficient for the consideration of the long-term action effects onto the concrete compressive strength alpha_cc has not been resumed correctly.	9766
13.02.17	User interface	When changing the reinforcement type in the fire protection analysis from corner reinforcement to circumferential reinforcement the program sometimes terminated.	10832
13.02.17	User interface	The dialog "Foundation restraint" malfunctioned in the Czech version. With each click in a input field, the values in the dialog were divided in half.	9900
13.02.17	User interface	Before starting a calculation with a fire protection analysis it is checked, whether a design combination has been selected for this.	8876
13.02.17	User interface	The help texts for the entries about the output extent in the dialog "Calculation options" have been updated.	8094
13.02.17	Input	Reinforcement specifications no longer existed, if modifications were made in the tab "Loading" and then these were reverted by using UNDO.	10461

Structural steel

Version 19.0

Build	Module	Description	ID
11.04.19	General	Program maintenance and support	13456

Version 18.0

Build	Module	Description	ID
20.04.18	User interface	A deformation analysis is only carried out, if a deformation combination exists. Is this not the case, then a warning is shown before the calculation.	11134

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Build	Module	Description	ID
19.07.17	Output document	The unit of the stresses has been corrected to N/mm2 in the stress analyses of the ultimate limit state.	11444
19.07.17	Output document	In the stress analyses with stress resultants according to 2nd order theory the value gammaM = 1.1 is used with DIN EN 1993-1-1 for the calculation of the utilization, since for non-linear column calculations it can be assumed, that a stability problem also exists in the analyses at the cross-section of the column. For columns in which the cross-section utilization is relevant in comparison to the utilization of the pure stability analysis, 10% higher utilization result from using gammaM1.	11443
10.04.17	Calculation	Temporary files necessary for the calculation are now locally saved in the temporary directory.	11207
13.02.17	General	Program maintenance and support	11029