Version 19.0

Build	Module	Description	ID
29.11.19	Design	With a specified high reinforcement ratio for the punching analysis, the longitudinal reinforcement was not sufficiently increased in the graph.	13925
17.06.19	Calculation	The log_sleeveDesign.txt (Output of the determination of the anchorage and lap length for the sleeve design) is stored in the *.res directory again.	13637
17.06.19	Output document	The resultants R1 and R2 were not correctly drawn in the graphic.	13539
17.06.19	User interface	The compression strength class of the concrete was not displayed in the property window anymore.	13636
06.05.19	Analyses	The **analyses of the safety against displacement of polygonal foundations** were revised and are now carried out as follows: The 1st core width is calculated with the help of an algorithm. The result is displayed as R1 and must be within the 1st core width. The 2nd core width is calculated with the help of the neutral axis in connection with the algorithm for the 1st core width. For this purpose a new polygonal foundation, which is intersected with the neutral axis, is generated for each design combination. The resulting reduced polygon is 100 % under compressive stress and can be verified again with the 1st core width. This approach is equivalent to the analysis of the 2nd core width. Thus, the result is displayed as R2 and must be within the 2nd core width. The overturning analysis is now also carried out at the real polygon. For this purpose, each foundation edge is considered as possible overturning edge and the safety against overturning is examined for this edge. For a nook the analysis is carried out at an equivalent tangent, which encloses the nook. The result is displayed as resultant R3 and must be within the foundation.	11959
06.05.19	Design	When determining the shear reinforcement it is now possible to increase the longitudinal reinforcement in order to avoid shear reinforcement.	12349
06.05.19	User interface	The tab "Input" was divided into "Project" and "System" in the ribbon bar.	13246
06.05.19	User interface	The combination types of BEST (Basic combination, accidental, fire combination, deformation, safety against displacement) are now also listed for the column load import.	9963
06.05.19	Analyses	An additional attribute "auto" has been added in the design combinations for the evaluation of the core width analysis. Purpose of the "auto" evaluation is, that the program carries out the analyses for the 1st and 2nd core width discretely for a design combination without imported column loads, so that no extra combinations must be defined by the user.	13418
06.05.19	Calculation	Problems in the punching analysis sometimes occurred for a very small calculational longitudinal reinforcement in one direction.	13239
06.05.19	General	Saving to a different directory than the project directory is now possible when archiving a position.	13008

Version 18.0

Build	Module	Description	ID
31.10.18	User interface	The corresponding table is now activated when clicking onto an entry in the object tree.	13061
31.10.18	Input	All types can be selected again for a user-defined design combination.	13023
31.10.18	Input	The type of a user-defined design combination can be changed again.	13022
31.10.18	User interface	Impact can be specified again in the design combinations.	13021
17.07.18	User interface	The type could not be changed for imported accidental column load combinations.	12779
08.06.18	Design	Sometimes a utilization of 2.0 for the 1st core width was issued although the offset was 0m.	12561
20.04.18	General	The program terminated when opening a file, if the option "Project directory as default memory location" was not selected.	12505
13.04.18	Analyses	A third attribute was established for the control of the core width analysis. There is now the choice between "permanent", "non-permanent" and "auto". This ensures, that all cases of the combination of first and second core width are correctly generated and displayed.	8780
13.04.18	General	An existing position name is now suggested as file name when using "Save as".	9461
13.04.18	Input	A warning is now displayed before the calculation, if a load case is not contained in any design combination.	9450
13.04.18	Output document	In the sleeve design a note is now issued, if the required column embedment depth is greater than the existing.	12007
13.04.18	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.	12366
13.04.18	User interface	The pre-installed examples can now be opened directly via the new function "Open examples" in the ribbon menu (Area A).	12002
13.04.18	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).	11998
13.04.18	User interface	Modifications in the color settings can now also be saved as default.	11983
13.04.18	User interface	The current objects of the clipboard are now listed in the context menu functions, which serve the clipboard functions "cut / copy / paste".	11665
13.04.18	User interface	The dialog for the selection, which analyses are to be considered in the automatic dimensioning, can now also be opened in the property window.	11476
13.04.18	User interface	The property window with the project information is now always visible.	9478
13.04.18	User interface	The settings for the reinforcement distribution are now made in the property window and no longer via "Calculation options" in the ribbon bar.	9454
13.04.18	User interface	Only accidental combination types are now selectable for imported accidental combinations.	8992
13.04.18	User interface	The settings for the visibility of the individual branches in the property grid are now being saved.	8850
13.04.18	Calculation	The minimum widths were sometimes not met correctly in the dimensioning.	11429
13.04.18	Output document	The correct name "ey" has been introduced in the table of the analysis of the position of the zero line.	12287
13.04.18	Output document	In the summary of calculation of the dead load sum for the substitute area loads the unit has been corrected to [kN/m²].	11963
13.04.18	Output document	The numbering of the polygon points in the graphic of the soil pressures in the vertices did not correspond with the input.	11421
13.04.18	Output document	The unit of the cohesion has been corrected and the unit for tan(delta) has been removed.	11356

Release Notes
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Build	Module	Description	ID
13.04.18	Output document	Very wide columns were displayed too high in the system graph.	9004
13.04.18	Output document	User-defined load cases, which do not contain a Pz force, were not issued.	8684
13.04.18	User interface	Not only the content of the cell, but also the corresponding objects were deleted when deleting a selected cell.	11978
13.04.18	User interface	No loads were generated after a load import, if only dHyII or dHxII existed.	10128
13.04.18	User interface	The grid could not be switched invisible again.	9924
13.04.18	User interface	In the input of the existing reinforcement there is now the possibility to enter, for instance, "4d20" for 4 bars with a diameter of 20 mm.	8748

Version 17.0

Build	Module	Description	ID
06.11.17	Design	Correct values for the lap length of the vertical reinforcement are required for the strut and tie model of the sleeve design. For this, the reinforcement diameter of the specification has to match the exis.As of column and sleeve. If insufficient specifications exist, exis.As is set as req.As., however, at least to the As which results from 2 bars of the specified diameter. Additionally, the specifications for the moderate/good bond, as well as for the increase of the bond stress due to lateral pressure, should be set correctly.	12006
20.09.17	User interface	The table "Loads" has been extended for version 17, so that difference values for the 2nd order theory can additionally be defined for all loads if necessary. With this the setting in the property window, whether a load is only from 2nd order theory, becomes redundant and has been removed.	10810
20.09.17	Load transfer	In the automatic update of the import of support stress resultants from BEST (*.bif interface) it could happen, that manually entered load case combinations were deleted.	11452
20.09.17	Output document	A misleading text was issued for imported loads in the table of the load cases under "Action type".	11453
20.09.17	Output document	Does the first core width not have to be proven, then it is also no longer issued.	11150
20.09.17	Output document	The base resistance according to the tables in DIN 1054-1 were not correctly documented.	11022
08.05.17	Design	In the upgrading of the block foundation for smooth formwork it has been forgotten to also reduce the slab width for the punching analysis in the final state.	11357
08.05.17	Design	The reinforcing steel strength of the column instead of the foundation was applied for the sleeve reinforcement.	11348
12.04.17	Output document	The decisive resultant is calculated separately for the x- and y-direction plus as combination of both directions in the calculation of the utilization levels for the 1st core width. For polygonal foundations the utilization level is then calculated via the relative position of this resultant to the graphically determined 1st core width.	11249
12.04.17	Output document	In the dimensions of the geometry of a block foundation, sometimes the geometrical values of a sleeve were issued.	11166
01.02.17	Calculation	Were no combinations for the safety against displacement imported and the values for gamma.stb and gamma.dstb not adjusted, then a relevant tip is now displayed before the calculation.	9067
01.02.17	Input	For the simple assignment of, for instance, permanent additional loads it is now possible, to activate the load case for all combinations at once.	10346
17.01.17	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.	10798
17.01.17	Design	The modified coefficients of the ÖNorm issue 2011 were included in the punching analysis. A punching reinforcement of the first two reinforcement layers is being increased by 60%.	10804
17.01.17	User interface	The columns delta.HxII, delta.HyII and delta.PzII have been added to the table "Loads". Moreover, no additional loads are generated during the column load import when there are differences in Pz, but the delta Pz is being calculated. Furthermore, delta Pz is being considered in the earth static analysis according to 2nd order theory and in the design.	10287