Release Notes
Nagelwand

Version 19.0

Build	Module	Description	ID
27.04.19	User interface	The tab "Input" was divided into "Project" and "System" in the ribbon bar.	13466
27.04.19	General	Saving to a different directory than the project directory is now possible when archiving a position.	13005

Version 18.0

Build	Module	Description	ID
27.04.18	General	The program terminated when opening a file, if the option "Project directory as default memory location" was not selected.	12506
27.04.18	Input	The nails are exclusively sorted by the depth z now, even if changes have been made at the nail layout later on.	12519
06.03.18	Calculation	Up to 1000 circles can now simultaneously be calculated in the slip circle analysis.	11740
06.03.18	General	An existing position name is now suggested as file name when using "Save as".	11993
06.03.18	General	The calculation of the earth pressure can now be carried out according to Culmann or according to DIN 4085.	11801
06.03.18	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.	12367
06.03.18	User interface	The pre-installed examples can now be opened directly via the new function "Open examples" in the ribbon menu (Area A).	12003
06.03.18	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).	11989
06.03.18	User interface	Modifications in the color settings can now also be saved as default.	11984
06.03.18	Design	The geometry of the anchor plate was not transferred to the punching analysis. Always, a width of 40 cm was assumed.	12188
06.03.18	Input	The horizontal spacing of the nails could not be modified.	11820
06.03.18	Output document	The yield strength of user-defined nail materials is now issued.	11906
06.03.18	Output document	The maximum height of the system graph has been limited, so that unnecessary page breaks can be avoided.	11432
06.03.18	User interface	The automatic generation of construction states malfunctioned sometimes, if the intersection with the left ground level was calculated incorrectly.	12186

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Build	Module	Description	ID
20.04.17	Output document	Optimization of the display area and the automatic scaling calculation in the system graphs of steep slopes.	11314
20.04.17	User interface	Do soil layers, ground surface and wall of complicated geometries not intersect after the shaping, then close-by points are automatically conglomerated in order to enforce the intersections.	11315
07.04.17	Calculation	Error in the rotation of the resultant in the sliding analysis.	11159
07.04.17	Design	User-defined reinforced concrete materials caused a termination in the punching analysis.	11218
07.04.17	General	The slip circle module has been optimized, so that the calculation time for the individual analysis could be reduced significantly. In the process, a license query had been included by mistake, which enabled leading the slip circle analysis in the program without an existing Gleitk license.	11213
07.03.17	General	Program maintenance and support	11065
07.03.17	Calculation	Optimization of the numerical earth pressure calculation according to CULMANN in combination with varying water levels and buoyant unit weights of the soil.	10605
07.03.17	Output document	The required nail lengths and the maximum amount of reinforcement are now displayed in two separate graphs.	10414
27.10.16	General	Nagelwand is a Windows® program with a graphic-interactive work environment for the calculation and design of nailed walls. The program application supports the following functions: • geotechnical analyses according to DIN 1054 with EAU and EAB as well as EN 1997 and the corresponding national annexes for DE, AT & CZ/SK • Wall design according to DIN 1045, DIN 1045-1 as well as EN 1992-1-1 and the corresponding national annexes for DE, UK, CZ/SK, AT • simple input of arbitrary ground offsets • parameterizable, polygonal ground level and ground database • specification of an upstream and downstream water table • graphic-interactive design aid and tabular polygon editing • horizontally limited or polygonally defined soil layer boundaries • simple input of wall segments with trapezoidal gradation of the nail lengths • automatic generation of nail groups and the corresponding in-between excavation levels • automatic generation of kinematic elements and sliding joints between the individual nail layers and the ground level • consideration of different earth pressure assessments for the stability analyses with optional consideration of the active earth pressure, the earth pressure at rest or of the increased active earth pressure • Analyses for the inner stability at kinematic elements, which result from the excavation levels. Also the analyses for the outer stability are carried out for each excavation level and for the final state • stability against embankment failure according to DIN 4084 and DIN 1054 or DIN 1054-1 (Slice method according to Bishop) as component of the outer stability • safety against base failure according to DIN 4017 as component of the outer stability Furthermore, the application additionally contains all analyses for the design of the structural members of the nailed wall system: • biaxial design of the concrete shell via a slab design for bending with shear force • punching analysis for each nail layer based on a slab section at the point of support • design of the nails based on the slab design and the inner analyses	10361