

Release Notes for RISAFoundation

Version 10.0.5 Enhancements/Corrections

- For models integrated with RISA-3D, corrected an error in the iteration of member design which caused an increase in solution time.

Version 10.0.4 Enhancements/Corrections

- Resolved an issue introduced in the Windows 10 Semi-Annual Update (KB 4103721) which prevented Standalone Licensing functions from operating as expected.
- Resolved an issue in which subscription licenses would become non-responsive during the upgrade process.
- Corrected an issue due to unstable models with multi-threading.

Version 10.0.3 Enhancements/Corrections

- Corrected the pile capacity factor when using Allowable Stress Design.
- Corrected an error where the wall footing ABIF factor was applied to the required stress rather than the allowable stress.
- Corrected an error where custom longitudinal and shear rebar properties did not apply to pedestal/pile design.
- Resolved a problem with the seismic forces on retaining walls where the Vsliding value was off by a factor of 1,000 when running any load combination with the EQ basic load case.

Version 10.0.2 Enhancements/Corrections

- Added the allowable bearing increase factor (ABIF) for wall design.
- Added the Wall and Footing Materials to the Strip Footing Definition Editor.
- Added the option for one layer of vertical reinforcement in retaining walls using Canadian design codes.
- Added the governing load combination for each shear direction in the detail reports and spreadsheet results for concrete pedestal and column members.
- Fixed a problem where the program used $0.0018*b*d$ rather than $0.0018*b*h$ for slabs. The code refers to A_g which should be $b*h$ instead of $b*d$.
- Fixed a problem where when maximum spacing governed for design strips the program was being overconservative with the spacing value.
- Improved concrete shear capacity calculation to take into account any axial tensile force which would remove the contribution of concrete to the total shear capacity.

Version 10.0.1 Enhancements/Corrections

- Fixed a problem with the slab Analysis Offset feature that would cause disconnected elements to act connected.
- Corrected an erroneous failure for the pile capacity in the Pile Cap Detail Report when soil depth properties have not been defined.
- Fixed a problem where Design Strips were not always giving rebar spacing within the limits set in the design rule.
- Fixed a problem where load combinations that produced errors in the solution were not processed properly and caused the program to close.
- Fixed a problem where using the undo command and saving would modify Custom Rebar Layouts in your model.

- Updated Subscription licensing behavior to prevent an erroneous failed log-in.

Version 10.0 Enhancements/Corrections

- Pile Design:
 - Added axial pile design for Hot Rolled Steel, Concrete, and Wood piles.
 - Added pile detail reports.
 - Added a Pile Definition Editor to input pile information in a more user-friendly way.
 - Added Custom Rebar Layout option for concrete pile reinforcement.
 - Added a Soil Definitions spreadsheet to define the soil properties.
 - Moved the default soil properties from the Model Settings dialog to the Soil Definitions spreadsheet.
 - Added a Soil Depth Properties spreadsheet to define soil layers for static pile design.
 - Added a Soil Definition Editor to define soil region properties and soil depth properties.
 - Fixed a metric unit bug with pile punching shear capacity where increasing the thickness of the slab reduces the capacity.
- Wall Footings:
 - Added support for the *TMS 402-16* masonry code. This includes updated shear friction calculations from concrete provisions to newly added provisions in the masonry code for wall footings.
 - Added the ability to apply triangular seismic loading to retaining walls per a max force or the Mononobe-Okabe formulation.
 - Updated hydrostatic loads with surcharge based on whether LL is included in the load combination or not. Previously we always used the surcharge load in the hydrostatic load calculations.
- General:
 - Added solution multi-threading to use all available CPU cores to drastically speed up solution time for models with many load combinations.
 - Added a Move Selected Items graphic editing tool.
 - Enhancements to the Custom Rebar Layout dialog:
 - Added spreadsheet functions for easier data input (TAB and ENTER keys).
 - Added the option to highlight and copy data from several cells at once.
 - Added access from the Concrete Members spreadsheet directly to the Custom Rebar Layout dialog through a new Set Layout dialog.
 - Fixed a problem where slabs with vertical analysis offsets that contain pedestals would give an erroneous message about the pedestals sitting on beams.
 - Updated the Copy/Paste functionality so that the column headers would not erroneously paste into the program. They now will only paste if you're in an external program.
 - Corrected the link from the Spreadsheet menu to Materials spreadsheet.
 - Updated our design strip reinforcement design to prevent reporting of more reinforcement than necessary.
- Integration:
 - Fixed a problem with pile punching shear capacity that would cause an incorrect value if different concrete codes were selected in a combined RISA-3D/RISAFoundation model.
 - Fixed a problem with a combined RISAFloor, RISA-3D, and RISAFoundation model if elevated floor slabs were used that would cause the program to shut down.
 - Added the ability to see RISAFoundation footings in RISA-3D in an integrated model.