

# Release Notes for RISAFoundation

## 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.