

# Release Notes for RISAFoundation

## Version 5.0.2 Enhancements/Corrections

### *Enhancements/Corrections*

- Added a Pile Cap Definition Editor to add pile cap information in a more user-friendly way.
- Added the ability to draw tapered surface loads.
- Added an automatic save of RISAFloor results when transferring a model from RISAFloor to RISA-3D.
- Added an automatic save of RISA-3D results when transferring a model from RISAFloor/RISA-3D to RISAFoundation.
- Added retaining wall foundation plans and detailed cross-sections to the DXF Export options.
- Added a Tools-Preferences option to define whether you want spreadsheet headers to copy over or not when using the copy command in a spreadsheet.
- Added the capability to select an individual plate inside of a slab element from the Plate Forces spreadsheet.
- Added the ability to show plate labels graphically from the Plot Options dialog.
- Revised OTM safety factor calculations to better account for eccentric axial loads in slabs.
- Updated the calculations for extra bars around areas of banded reinforcement in footings to eliminate unnecessary bars.
- Corrected an issue with the program erroneously reporting that a slab could not be designed because it was too thin.
- Corrected an issue where 64-bit network clients were not displaying the Key ID in the Help-About dialog.
- Corrected a problem with the Pile Cap Results spreadsheet where the pile cap Label was shown incorrectly.
- Fixed an issue with saving results between RISAFloor, RISA-3D and RISAFoundation that would cause RISAFoundation to shut down.
- Fixed an issue where the program shuts down when viewing the soil contours graphically.
- Fixed heel shear capacity for situations where the heel shear is upward. Previously it was always conservatively assumed that heel shear would be downward.

## Version 5.0.1 Enhancements/Corrections

### *Enhancements/Corrections*

- Compatibility with RISA-3D v11.0.1 and RISAFloor v7.0.1

## Version 5.0 Enhancements/Corrections

### *Enhancements*

- Added 64-bit version capability.
  - The program will run in 64-bit addressing space, expanding Windows memory limits.
  - Allows for increased [program limits](#) when running on a 64 bit system.
- Added the ability to import a DXF underlay; Allows users to snap to the underlay when drawing foundation elements.
- Added Copy functionality.

- Added the ability to graphically add openings and thicken slab elements.
- Added an "Offset Slab" tool that allows a user to extend a slab perimeter outward from a column or wall line.
- Added the CSA A23.3-04 Canadian concrete code for retaining wall design.
- Added the NBC-10 (Canadian) load combinations (service and strength) to the Load Combination Generator.
- Added the ability to add line horizontal forces and line moments.
- Added an interference check to the Warning Log between pile caps and footings.
- Added mesher line constraints to slabs for openings, thickened slabs and grade beams.
- Moved net soil bearing pressure from Soil Regions and Global Parameters dialog to the Footing Definitions spreadsheet.

### ***Corrections***

- Corrected an issue where an install path with long file / directory names could cause the program to fail to launch when using file association.
- Corrected an issue with the Rho Min Horizontal for retaining wall stems. The program was previously always using a value of 0.0025 when it should be either 0.002 or 0.0025.
- Corrected an issue with retaining wall sliding checks where lateral loads applied to the top of the wall that resist sliding were causing erroneous sliding capacity values.
- Corrected a problem with retaining wall soil bearing checks, where the Max Bearing value would be incorrect when there are multiple retaining walls of different lengths in a single model.
- Corrected a problem with the display of soil pressure contours which caused the program to close.
- Corrected an issue with retaining walls where the moment capacity goes to zero for very odd loading conditions.