

# Release Notes for RISAFoundation

## Version 11.0 Enhancements/Corrections

- Analysis:
  - Added compatibility with IBC 2018.
  - Added *ASCE 7-16* load combinations in the Load Combination Generator.
  - Added a passive pressure option to slabs to account for sliding resistance.
  - Added the ability to apply soil overburden loading to slabs.
  - Improved footing design optimization by ensuring that the final thickness is considered in the moment calculation.
  - Retaining wall earth pressure coefficients will now be automatically re-calculated to assume the at rest condition when the passive forces exceed the active forces.
  - Fixed an issue where top bars were not designed for footings despite the "Force Top bars" option being selected.
  - Corrected an issue where retaining walls with shear keys used overly conservative soil pressures for sliding checks.
- General:
  - Added overturning and resisting forces per load category to the Safety Factor spreadsheet.
  - Added sliding and resisting forces per load category to the Safety Factor spreadsheet.
  - Fixed a problem where the Material Takeoff Volume and Weight for slabs incorrectly displayed as zero when the model is saved and re-opened.
  - Fixed a display issue in the Footing Results spreadsheet where pedestal dimensions were not updating properly.
  - Corrected a problem where the optimized shear steel would not fit in the member due to metric unit conversion.
  - Resolved an issue where pile punching shear parameters were not transferred properly when solved with all CPU cores.
  - Corrected a graphic display error where distributed loads were shown with the reverse sign.
  - Corrected a display problem where the 4/3rds design check was erroneously converted when using metric units.
  - Fixed issue that caused page numbers to repeat when "Create PDF" was used to print a report.
  - Resolved an issue where wood material Error Code 1095 was produced during solution without having any wood members.
- Integration:
  - Corrected an error where RISA-3D to RISAFoundation slab models allowed moment to transfer across a pinned slab edge.