Release Notes for RISAFloor 5.0

Version 5.0.0 Enhancements/Corrections

Enhancements

- Enhanced loading for sloping roof models taken into RISA-3D.
    - Enabled flexible diaphragm load attribution (wind and seismic) for sloped roofs.
    - Added the ability for the wind load generator to include perpendicular sloped roof wind loads per Figure 6-6 of ASCE-7.
    - Added wind load calculations for walls and wall areas that extend above the base roof elevation. These were previously ignored.
    - Gravity loads are now brought into RISA-3D at the tops of sloped walls. They were previously applied at the base floor level elevation.
- Enhanced Wood I-joist capabilities by adding user customizable XML databases.
- Added wood I-Joist databases provided by manufacturersAdded the ability to specify a bottom elevation for each individual wall.
- Updated the names assigned to all design code options to match ANSI naming convention.
- Added network file security to prevent multiple users from opening / editing the same file at once.
- Added the multi-ply wood column design adjustment factor per NDS 15.3.2
- Improved the wall panel alignment code to also account for cases where walls are sitting on beams.
- Added a Global Parameter option to allow users to eliminate minimum studs from non-composite beams.

Corrections

- Corrected an issue which could cause overloaded joists to report a code check of 1.#INF.
- Corrected an issue where the column forces could be calculated incorrectly for floors that were very closely spaced.
- Corrected an issue where load diagrams were not being displayed properly for members with shored construction.
- Improved wood header design and loading for openings close to the top edge of wood wall panels.
- Corrected an issue where some report printing sections were printing out the wrong sections.
- Corrected an issue where code check information for SJI joists was not being displayed.
- Corrected an issue where the Cb calculation could be over-conservative for some members.
- Corrected an issue where the Load Duration Factor (Cd) was not being properly considered for header design.
- Corrected an issue where conversion of units could change Joist Girder design.
- Corrected a bug with the DXF importing where files with more than 500 wall panels would not import properly.
- Corrected an issue where wall regions would not be generated properly for closely spaced floor levels.Fixed a bug where duplicate nodes were being created during the transition from RISAFloor to RISA-3D.
- Corrected a problem that would cause the Wall Results spreadsheet to not display results for masonry walls, though the detail report showed results.
- Corrected an issue with the naming convention of diaphragms. Previously deleted diaphragms could cause a dublicate labeling issue which affected the application of diaphragm loads.
- Corrected an issue where girders receiving a negative load from supported members were displaying a 1#QO in the Vibration Results spreadsheet.

Version 5.0.1 Enhancements/Corrections

Enhancements

- Added drawing of flexural reinforcement in the column cross section to concrete column detail reports.
- Modified the Concrete Column detail reports so that they always show the interaction diagram regardless of what loading is applied to them.
- Improved the custom rebar layout dialog to be easier to use.
- Added options on the main menu bar (under the Tools sub-menu) for re-labeling Beams and Column Stacks

Corrections

- Corrected issues with some of the wood I Joist database files which prevented the information from being read in properly.
- Changed a misleading Warning Log Message to be more descriptive. Instead of "Not enough solution data", the message will now inform the user that their results were generated by an older version of the program.
- Updated notation for design coefficients for EuroCode. Previously, the EC3 2004 code was mistakenly using the naming convention from the 1992 version of the code.
- Corrected an issue where pinned end joists could erroneously report a moment reaction at the end of the joist.
- Corrected an issue where unbraced lengths with blank entries were being read in as if their unbraced lengths were set to "Segment".
- Corrected an issue where inactive floors (or floors without any slab edge) would affect the RISA-3D wind load generation.
- Corrected an issue with the wood database for the "Western Cedar" species.
- Corrected an issue where RISAFloor could corrupt a custom wood species if it were given the same name as pre-defined wood species.
- Corrected an issue where a sloped roof may not be created properly when cantilevers existed on the floor.
- Corrected an issue where performing a model merge could merge out the cantilever extension of a beam resulting in a framing error.
- Corrected a display issue where the member detail report displayed a different Fv value than was actually used in the F'v calculation for Glulam members.