

Release Notes for RISAFloor Version 3.2

Version 3.2.0 Enhancements / Corrections

Interface and Graphics Enhancements / Corrections

- Improved dialog behavior by highlighting the Use? Checkboxes and added in a Clear Use Boxes button
- Fixed a bug with the rendering of deflection diagrams for pipe shapes
- Dynamic_graphics in the INI file
- Plot options for viewing splices at a floor level
- Added ability to display EITHER the floor above or below the current floor

Steel Design Enhancements / Corrections

- Added changes to the AISC database based on the 13th Edition Manual
- Added a Roll Back On Cancel action to the Global Parameters – Code settings to properly account for cases where users change from 13th Edition ASD to 13th Edition LRFD and cancel the change before exiting
- Changed logic for using R value for cold formed / light gage steel
- Slenderness checks for Indian code IS 800
- Corrected a Cb calculation error for column design where the Cb was being erroneously set to -1 and was un-conservatively REDUCING the code checks
- Added warning messages for why a composite beam was not designed compositely
- Enhanced the composite beam stud optimization code
- Enhanced code to provide better messages for why a stud layout failed
- Added message to Open Web Joist reports stating that "OL Loads are not included in Joist Design"
- Changed "actual UTL and UDL" to "equivalent UTL and UDL" in Open Web Joist reports
- Improved Parent / Child floor behavior for physical columns allowing better interaction with column stacks.
- Improved column splice behavior when floors are moved, inactivated or deleted.

Concrete Design Enhancements / Corrections

- Added ACI 2005
- Changed Fy in the rebar layout dialog so that it is tied to stress units to be consistent with definition of Fy in the Design Rules
- Corrected a Canadian code bug that could result in too many bars being selected in RISA-3D for concrete columns that originated in RISAFloor.
- Corrected warnings in shear rebar layouts for Floor
- Concrete T-beams modified in RISAFloor (negative reinforcement over L/10)
- Fixed bugs related to rebar optimization for extremely, extremely wide beams

Wall Enhancements / Corrections

- Corrected a units bug for line load / wall reactions in RISAFoundation
- Added LL Reduction factor calculation to wall results
- Corrected errors with wall tributary area calculations. Related to line load unit conversion issue.
- DXF importing will now export Polyline to new Wall layer so that files can be "round tripped"
- Added an error check for walls of zero thickness. Previously these types of walls could cause a RISA-3D crash during lateral analysis.

Column Design Enhancements / Corrections

- Corrected error in the Max Base Reaction in the Column Forces spreadsheet. All LC's (even the ones that weren't solved) were being used to calculate the max forces.
- Modified Max Base Reaction in the Column Forces Spreadsheet to reflect the reduced live load forces
- Parent / Child fix for L values of columns
- Column Stack Manager tool
- Corrected issue where column sizes were not Freezing
- Corrected a number of column stack issues
- Corrected units display issue with the status bar in the Columns, Column Stacks and Detailing spreadsheets.

Loading Enhancements / Corrections

- Increased Load Combination limit to 5000
- ASCE 7 - 2005 and IBC 2006 Live Load Reduction
- Improved load attribution routine for 2-way deck. This specifically corrects a bug with the Tapered area loads applied to 2-way deck.

Miscellaneous Enhancements / Corrections

- Added additional check to prevent Steel Products and Wood Products from being transferred into the Lateral model which could cause a solution crash in RISA-3D.
- Corrected a bug where the program was incorrectly handling duplicate shapes. This bug only occurred when a file was opened which contained a shape that matched the name (but not the properties) of an existing database shape. Program would incorrectly re-assign the member to the member to the database shape.
- CIS/2 Detailing
- CF correction for SCL lumber in 2005 NDS
- Added in better status bar support for Dual Monitors
- Added restrictions on spreadsheet printing for Demo versions. Now limited to a maximum of 5 rows for each spreadsheet.
- Corrected report printing to re-adjust report widths to allow for wider / Landscape pages
- Corrected a bug where copying and pasting from results browsers could result in a memory error based on an "out of range" spreadsheet setting
- KeyID added to input file
- Demo Versions will now run out of HKEY_Current_User if Local_Machine is unavailable
- Ability to turn off the time / date stamp
- Log of members that had invalid or missing design lists
- Added a warning log that will tell you which entries were not read properly or caused the file to be considered "corrupted"
- Corrected End Reaction Calculation for beams that had a cantilever on their J end
- Changed abbreviations for column headers from "non-reducible LL" to "LL-Non" and "LLS-None", et cetera
- Corrected a crash with the K-Factor calculation when moving from RISAFloor to RISA-3D
- Fixed bug that disabled RISA-3D's ability to enter RISAFoundation after you had detached a RISA-3D model from RISAFloor
- Added units display to Mass and MMOI entries for Floor Diaphragms
- Wood and concrete Columns will be color coded based on lateral / gravity same as steel columns
- Corrected a bug in which the opening of a detail report would cause the Deflection Results spreadsheet to become corrupted for that member.

Version 3.2.1 Corrections

- Corrected a bug in the File I/O where Member Area Loads or Plate Surface Loads (from the linked 3D information) were not being read in properly.
- Corrected a crash associated with the printing of Flat File results related to Inactive Floors and Beam Deflections.

Version 3.2.3 Corrections

- Corrected a serious bug that could result in the deleting of embedded RISAFoundation data. If a RISA-3D file with embedded RISAFoundation were saved without having first viewed the Footing data during that session, then the Foundation information would NOT be embedded in the 3D file.
- Corrected a bug related to the validation of RISAFoot version 3.0 licensing. Previously the network version of RISAFoot was not correctly authorizing.
- Corrected a 2nd bug related to RISAFoot authorization that related to launching RISA-3D from within a RISAFloor session.
- Corrected a bug associated with the Beam to Beam drawing behavior using 2nd beam offsets. 3.2 and 3.2.1 were creating a joint at the correct locations, but were not connecting the new beam to those nodes.
- Corrected a bug associated with the Self Weight of Lateral walls that were brought into RISAFoundation. Essentially the self weight of the wall was being included twice.
- Corrected a bug associated with the saving and retrieving of drawing grids.
- Corrected a bug with the optimization of concrete reinforcement. The bug would have prevented the program from adding steel that is above the min flexural steel requirements.
- Corrected a Steel Database error in AISCDB32.FIL associated with HSS6.625x0.375.
- Corrected a bug where RISA-3D could not design footings if the program were initiated from RISAFloor through the Director menu.