

Release Notes for RISACONNECTION

Version 9.0.0 Enhancements / Corrections

- Added the following connections for Wide Flange beam to HSS Tube columns:
 - Flange Plate Moment per AISC 360-10 (14th edition)
 - Direct Weld Moment per AISC 360-10 (14th edition)
 - Flange Plate Moment per AISC 360-05 (13th edition)
 - Direct Weld Moment per AISC 360-05 (13th edition)
 - Flange Plate Moment per CSA S16-2014
 - Direct Weld Moment per CSA S16-2009
- Added "Axial Transfer Load" and "Shear Transfer Load" inputs for Vertical Diagonal Brace connections to allow for the design consideration of transfer forces at the beam to column sub-connection.
- Updated the calculation and application of the Base Material Proration factor for Weld Strength calculations:
 - This factor will now only be included in weld strength capacity calculations where the strength of the base material is not directly calculable.
 - This factor can now be toggled off in the (Global) Project Settings.
- Updated the HSS Transverse and Flexural Plastification limit states to always display both compression and tension checks for OCBF seismic connections.
- Updated beam flange to column flange welds to no longer allow the weld length to exceed the column flange width.
- Improved the input options for tapered gusset plates by adding the new "Custom Angle" tapered input angle.
- Improved the calculation of Whitmore gusset area when the Whitmore section crosses into the column web.
- Added an option to adjust the print size of 2D and 3D connection images in the printed report.
- Added support for connection integration from demonstration versions of RISA-3D and RISAFloor into the demonstration version of RISACONNECTION.
- Corrected the calculation of gross area in the Flange Compression check for direct weld moment connections where the beam flange is wider than the column.
- Corrected an error where double shear was not being considered in the bolt bearing check on double sided shear connections.
- Corrected a display error on small scale connections which cut the display length of the supporting girder shorter than the length of the connection.
- Corrected the minimum tensile stress (F_u) for F1554 Gr. 105 anchor bolts.
- Improved the material call outs for DXF exported files.
- Corrected an error where the Whitmore section for a brace to base plate connection crossed a column web but did not report failure.
- Corrected labeling error which erroneously referenced column supporting members on beam to girder connections.
- Corrected grammatical errors in the Check Anchor Bolt Placement warning message for a Column Base Plate.