

Release Notes for RISACONNECTION v2

Version 2.0.1 Enhancements/Corrections

- Added weld checks to verify that the weld fits on the connection.
- Added a compression buckling check for clip angle connections that are part of vertical brace connections in compression.
- Added a plate tear-out check for clip angles on a vertical brace connection in tension.
- Updated Bolt Shear strength formula to handle one-bolt connections.
- Updated Chilean Steel database per Acero Diseño Estructural Manual – Segunda Edición.
- Fixed a problem with the minimum edge distance checks in the Geometry Restrictions at Beam limit state. Previously it was erroneously failing the minimum edge distance.
- Corrected an error where the Story Shear input force was not being considered in required load calculation for the Column Panel Zone Shear check.
- Corrected the view orientation of chevron braces in RISACONNECTION that come from a RISA-3D model. Previously the chevron braces showed up in RISACONNECTION from the opposite sides of the frame.
- Corrected an issue where the Moment Strength (No Prying) capacity check was being compared to the controlling flange force in moment connections even if it was a compression force. Now this is only checked against the tension flange force.
- Corrected an error where a group of diagonal brace connections from RISA-3D was not displaying the Group Properties properly in RISACONNECTION.
- Corrected an issue where the calculation of the Whitmore section would be un-conservative for bolted braces with a single row of bolts.

Version 2.0.0

- Added Vertical Brace Connections (Concentric):
 - Supports both Diagonal and Chevron brace configurations.
 - Includes the design of all gusset connections.
 - Utilizes the Uniform Force Method.
 - Includes the design of the gusset plate (Whitmore Section).
- Added axial loads to existing shear and moment connections:
 - Checks to see if bolt prying applies.
 - Considers the angle of the load resultant for bolt and weld checks in combined shear and axial connections.
- Added column and beam splice connections (Shear and Moment).
- Added DXF export of connection details.
- Added foreign steel shape databases.
- Improved the warning / error messaging system between RISA-3D/RISAFloor and RISACONNECTION.
- Removed the Max Flange Thickness (Fillet) check from Flange and Web Weld Limitations based on AISC clarification that this was only a suggestion (for non-seismic connections).