

Release Notes for RISACalc

Version 2.1 Enhancements/Corrections

- Added the Deflection Check into the graphical interface and calculations section for Beams.
- Improved the reporting of the Deflection Check section for Composite Beams.
- Added the batch printing ability to print Detail Reports for multiple components at once.

Version 2.0 Enhancements/Corrections

- General:
 - Added the ability to copy existing components within the same project.
- Hot Rolled Steel:
 - Improved the compactness class determination for single angles with the consideration of Clause 11.1.2 and 11.1.3 according to CSA S16-14 and CSA S16-09.
 - Updated Material Defaults to Include ASTM A500 Grade C for Round and Rectangular HSS sections.
 - Corrected the capacity calculation for members with only tension loads to follow chapter D of AISC 360 instead of chapter H.
 - Corrected a graphic display issue in Detail Reports where 'Lcomp,top' was reported as the variable label when the controlling value of the unbraced length was 'Lcomp,bot'.
- Aluminum:
 - Enhanced the Bending and Axial Interaction Check section of aluminum Detail Reports for clarity.
- Wood:
 - Corrected bending capacity of wood members due to C_m factor being applied twice during member capacity calculations.
 - Corrected an issue with C_m value in E' min calculation under the combined bending and axial compression check under NDS codes.
 - Resolved an issue where compression analysis according to CSA 086-14 was reporting incorrect values for F_c and K_{zc} .
- Concrete:
 - Added the ACI 318-19 concrete code for beams, columns and wall panels.
 - Resolved an issue that was only preventing shear design of concrete beams when members met Deep Beam criteria.
 - Resolved an issue which was providing erroneous Deep Beam warnings.
- Detail Reports:
 - Modified the Detail Report for wood members when the beam stability factor is 1 due to the member being fully braced.
 - Corrected the display of values reported in the concrete member Detail Report for the depth to the equivalent rectangular stress block and for the depth to the neutral axis.
 - Updated the metric unit of stress to read as MPa.