

Release Notes for RISA-2D

Version 20.0 Enhancements/Corrections

- Hot Rolled Steel:
 - Added the analysis and design of back-to-back hot rolled channel members.
 - Added an enhancement that α_m calculation under NZS code will conservatively default to 1.0 when explicit unbraced lengths are used.
 - Fixed an issue that the C_b factor for steel members may not be taken as 1.0 conservatively if L_{comp} references an explicit value from L_b .
 - Resolved an issue where the input for C_b factor may not persist when it was added in the member spreadsheet.
- Concrete:
 - Added the CSA A23.3-14 concrete design code for concrete wall panels.
 - Fixed an issue where concrete members may not report strong-axis moments and shears if the member is rotated.
- Masonry:
 - Added larger reinforcement spacing options for masonry wall design.
- Wood:
 - Added Incision factor C_i in sawn lumber design.
 - Added the Specific Gravity Adjustment Factor to reduce the shear capacity for wood framed shear walls.
 - Fixed an issue where specific model files may have 'nan (ind)' results for LVL wood members under 2001 NDS code.
 - Corrected an issue where the C_r (repetitive use factor) would equal 1.0 regardless if it was enabled.
 - Fixed an issue where the K_z factor may not be calculated correctly under CSA 086 code.
- General:
 - Resolved an issue that the program tries to save models as RISA-3D files if they are imported from DXF.
 - Updated the text in the Units Selection to say 'Material Stiffness' instead of 'Material Strengths'.
 - Updated the location where user data files are stored during default installation to prevent certain file access issues.
 - Enhanced silent install functionality by disabling the program from launching after install.
- Analysis:
 - Fixed an issue that custom member end releases may not be saved and applied properly in analysis.
- Interface/Graphics:
 - Fixed an issue that surface load display may not update when switching units.
 - Resolved an issue that recent project files are not listed in the Starting a Model dialog when launching the program.
 - Updated a display issue where the concrete cover dimension in the rebar detailing view in concrete detailed reports may not be up to scale when using custom rebar layouts.
 - Fixed an issue where the display of member section properties under the Properties tab in the Member double-click dialog may not be refreshed correctly when switching between members.
 - Enhanced the area load magnitudes to reflect the 'Decimal Places for Input' specified in the Application Settings.
- Operations:
 - Resolved an issue that users cannot switch member functions between 'Lateral' and 'Gravity' under the Members spreadsheet.
 - Fixed an issue that edits for default file locations under Application Settings may not stay after reopening the program.
 - Fixed an issue that data in the Drift Definition spreadsheet may not be saved with the model file.
 - Fixed an issue that detailed reports may not be opened properly for concrete columns designed under the AS 3600-2001 code.

- Resolved an issue where CSA wood material properties would not properly save, causing a 'check wood materials' warning message when opening the model.
- Printing/Reports:
 - Fixed an issue that the font may not be recognized by older versions of Adobe PDF printer when printing wall detailed reports.
 - Fixed an issue that when printing a report, the spreadsheets may be shrunk and not fit the page size.
 - Fixed an issue that the footer of the masonry wall detailed report does not display properly.