

Release Notes for RISA-2D Version 6.5

Update to Wood Code / Wood Design

- Added NDS 2001 Wood design code
- Added Structural Composite Lumber design
- Added capability to do Full Sawn Lumber
- Corrected Detail Report for Wood Members to show the proper intermediate design values for the critical section location.

Enhanced Concrete Design Features

- Added Concrete Beam Rebar Detailing
- Added Concrete T and L Beam Sections
- Added Concrete Column Interaction Diagrams
- Modified ACI Concrete Beam Design to allow for 1 Bar Diameter minimum.
- Modified Detail Report for Concrete Beam Design to now show Required Area of Tensile Steel.
- Added Concrete Design per ACI 2002
- Added Canadian Concrete Design per CSA A23.3-94
- Added Indian Concrete Design per IS456:2000
- Added British Concrete Design per BS8110-1:1997
- Added Euro Concrete Design per EC 2-1992
- Added Foreign Rebar Sets for Concrete
- Added better messages for concrete members when a design cannot be performed.

New Steel Codes

- Added New Zealand Hot Rolled Steel Code NZS 3404-1:1997
- Added Australian Hot Rolled Steel Code AS 4100-1998
- Added 2001 Cold Formed Code for US (AISI)
- Added 2001 Cold Formed Code for Canada (CSA S136-01)
- Added 2001 Cold Formed Code for Mexico (CANACERO)
- Added new HR Steel shapes in the LRFD 3rd manual.
- Added new AISI and SSMA shapes per 2001 AISI manual
- Added CSA S16.1-2001 Hot Rolled Steel Code
- Added British Hot Rolled Steel Design per BS5950-1:2000.
- Added British, Indian, Euro, Chilean, and Korean Hot Rolled Steel Shape databases
- Added automatic C_b calculation for LRFD 2nd and LRFD 3rd codes

Enhanced Analysis Features

- Added Automatic Plate Mesh Generation
- Added a Robust, Two Way, Modeling Link with the ProSteel Detailing Program
- Added Subgrade Soil Spring Generator
- Added IBC 2000 Parametric Response Spectra.
- Added the capability to automatically prompt and solve for any missing dynamics or response spectrum solutions when running load combinations.
- Added a Wall Force Summation tool

Enhanced Graphics and Drawing Features

- Added Enhanced Layer Support for DXF Export
- Added the ability to use the mouse to select the origin of the drawing grid.

- Added the ability to specify point and line loads along the span of a member by specifying the offset distance from the member end.
- Added the ability to skew the drawing grid.

Miscellaneous Enhancements / Corrections

- Replaced the Warren and X-Brace truss generators with a general truss generator with more options.
- Improved color plotting by material or section set to list in the legend only items being used in the model.
- Added true tension-only member to compliment the original "Euler" type tension only member to make it easier to specify the desired function.
- Added ability to slave joints using the graphic editing tools.
- Added additional member criteria selection options.
- Added the ability to change material types for members using the Member Information dialog.
- Added the capability to solve multiple Moving Loads within the same Load Combination.
- Added ability to define general material section sets with no shape (edit properties directly)
- Modified the shape redesign list format. A new sub folder is created on startup to hold the updated redesign lists and the program is updated so the redesign list path now points to this new location.
- Modified redesign list behavior so that each one is now associated with one of the shape databases. The program will now only read in the redesign lists for the default database for each material and any lists that have "ALL" as their associated database.
- Modified program protection now user either Sentinel USB hardware keys or Sentinel LM Network licensing. The Company Name shown on all reports can now be changed