New Feature in RISA

Presenter: Deborah Penko, P.E.
32 & 64 bit versions

- Automatic installs based on your computer!

<table>
<thead>
<tr>
<th>Program Version</th>
<th>32-bit</th>
<th>64-bit</th>
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<tbody>
<tr>
<td>Joints</td>
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<td>Members</td>
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<tr>
<td>Plates</td>
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<tr>
<td>Shapes</td>
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<td>Wall Panels</td>
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<tr>
<td>Openings/Regions (per Wall Panel)</td>
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<tr>
<td>Solids</td>
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<tr>
<td>Section Sets</td>
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<tr>
<td>Loads (All Types Combined)</td>
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<td>Materials</td>
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<td>Moving Loads</td>
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<td>Load Combinations</td>
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<td>Mode Shapes</td>
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RISA-3D, RISAFloor, RISAFoundation
IBC 2012 Material Code Updates

- Wood design per the NDS 2012
- Aluminum design per AA ADM1-10: ASD & LRFD
- Cold-Formed Steel design per AISI S100-10: ASD & LRFD
- AISC 341-10 Seismic design for Hot rolled steel
- Tapered Wide Flange design per Design Guide 25

Let’s See Tapered Design now!
Canadian Code Updates

- Hot Rolled steel design per Canadian CSA S16-09
- Cold-Formed Steel design per CSA S136-10: LSD
- Seismic and Wind Loading per NBC 2010
- Added the design Response Spectra per NBC 2010
- Load Combination generation per NBC 2010
DXF Import
Added the ability to import a DXF as a background image.
Added Virtual Joist Girders

- Converts common joist sizes into equivalent wide flange beam

**Design Tip:**
Use the Design Rules: Depth to help you select the correct Joist Girder

Let's See These Features Now!

**RISA-3D & RISAFloor**
RISAFoundation

Added Modeling Features

Offset Slab

RISAFoundation
Added Modeling Features

Openings & Thickened Slabs

RISAFoundation
Added Modeling Features

Copy foundation elements linearly

- Copy Selected Beams
- Copy Selected Retaining Walls
- Copy Selected Footings/Plint/Plinth Caps
- Copy Selected Pedestals
- Copy Selected Slabs

Add line moments and line horizontal forces

Let's See This Now!

RISAFoundation
- Added the AISC 360-2010 (14th edition) steel code.
- Added Direct Weld Connections
  - Beam to column moment connection
  - Moment splice connection
- Enhanced Bolted End Plate Moment Connections
  - Added 8 bolt option for the bolted end plate moment connections.
  - Added thin plate/prying considerations per AISC Design Guide 16.
➢ Added the ability to use full depth shear tab connections.

➢ Added the ability to consider moment due to eccentricity in clip angle shear connections.
Added the design of column transverse stiffeners and web doubler plates for moment connections.
Added Report Printing Generator

RISACConnection
Updated Vertical Brace Connections

- Added the ability to specify any sized gusset plate- regardless of length to width ratio

- Added the ability to use non-concentric brace work points.

Let’s See this now!
Coming Soon:

- RISAConnection integration with Tekla Structures

Next Version:

- HSS Connections
New Verification Problems available!

RISA-3D New Examples:
✓ AISC 14th edition
✓ Aluminum design

RISAFloor New Examples:
✓ Composite beam design
✓ Vibration analysis
✓ Steel joist design
✓ Live load reduction

RISAFoundation textbook and complete hand calculation examples:
✓ Footings
✓ Pile caps
✓ Retaining walls

RISAConnection examples:
✓ AISC 14th Edition

Find them in your RISA directory or on our website: www.risa.com
Questions?

Please let us know if you have questions. We will answer as many questions as time permits during the webinar.

Once the webinar is closed, we will post all Q&A’s to our website: www.risa.com

For further information, contact us at: webinar@risatech.com

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