

# RISA Technologies

## Wood Design Using New RISA Technologies Software



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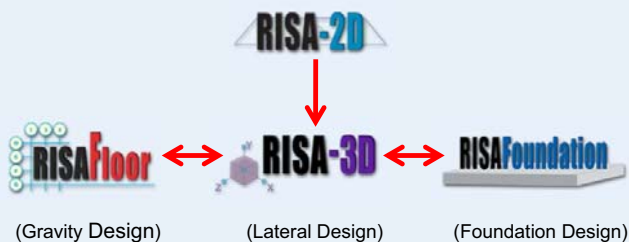
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## Wood Design Work Flow in RISA

(2D Component Design)



## What wood members does RISA design?

- Sawn/Dimension Lumber
- Glulams
- LVL's (Laminated Veneer Lumber)
- Parallams
- Wood I-Joists

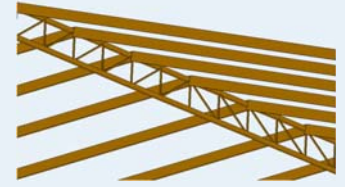


## What wood materials does RISA design?

- Over 380 different species/grade combinations
- Over 100 different Structural Composite Lumbers
- Anything Else!



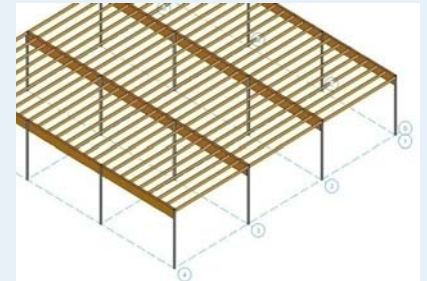
## Wood Truss Design



## Complex Roof Systems

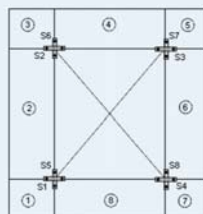


## I-Joist Floor/Roof Systems



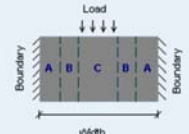
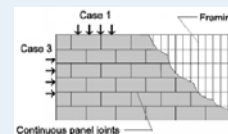
## Wood Wall Design

- Analysis of Existing Walls / Design of New Walls (Based on FEA)
- Shear / Bearing Design (Segmented, Perforated, Force Transfer)
- Header Design for Openings
- Panel / Nailing Design using 2006 IBC Tables
- Hold-Down Design



## Wood Diaphragm Design

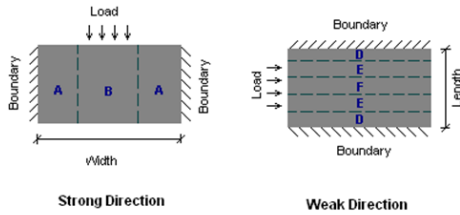
- Analysis of Existing Diaphragms / Design of New Diaphragms
- Flexible Diaphragm Load Attribution
- Nailing Design using 2006 IBC Tables (including Multiple Zones)
- Deflection Report



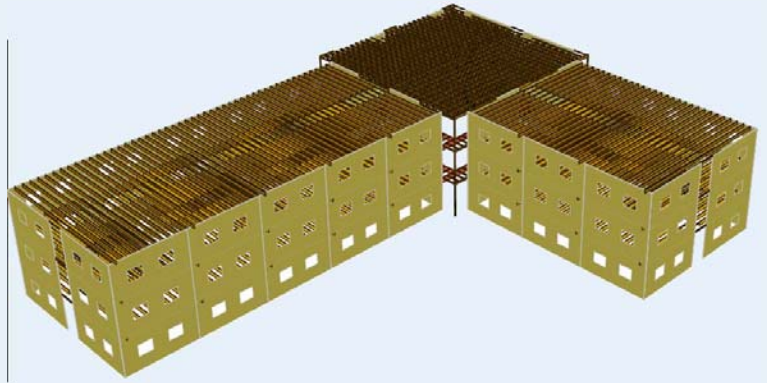
## Example from Diaphragm Detail Report

NAIL SPACING SCHEDULE							
Zone	Location (ft)	Label	Lines	Framing Width (in)	Boundary (in)	Cont Edge (in)	Other Edge (in)
A	0	C13B_3_S1_3/8_8d@2/3/1	1	3	2	2	3
B	.871	C13B_3_S1_3/8_8d@4/6/1	1	3	4	4	6
D	0	C13B_3_S1_3/8_8d@2/3/1	1	3	2	2	3
E	36.871	C13B_3_S1_3/8_8d@4/6/1	1	3	4	4	6
F	51.653	C13B_3_S1_3/8_8d@6/6/1	1	3	6	6	6

### LAYOUTS



## Screenshot from RISA of an Example Building



## Final Things to Consider About RISA & Wood Projects

- **Multi-Material Buildings.**
  - ✓ Steel Moment Frame at Garage or Storefront Openings
  - ✓ Concrete or Masonry Shear Walls
- **BIM modeling / Revit Structure**
  - ✓ RISA has the most comprehensive link with Revit
- **RISA is quickly closing the gap that exists in structural software between steel and wood projects!**

## What's Next?

You Tell Us!

User Feedback allows us to further refine *THE* wood software solution.