CONCRETE DESIGN IN RISA

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UPCOMING SOFTWARE RELEASES

RISA-3D

VERSION 13 (Beta)

RISAFloor

VERSION 9 (Beta)

RISAFoundation

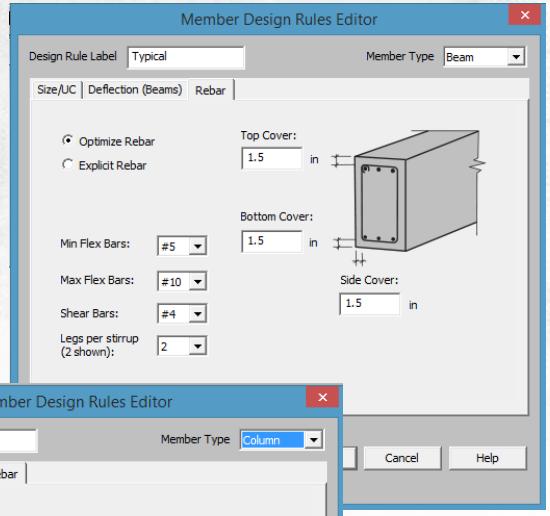
VERSION 7 (Beta)

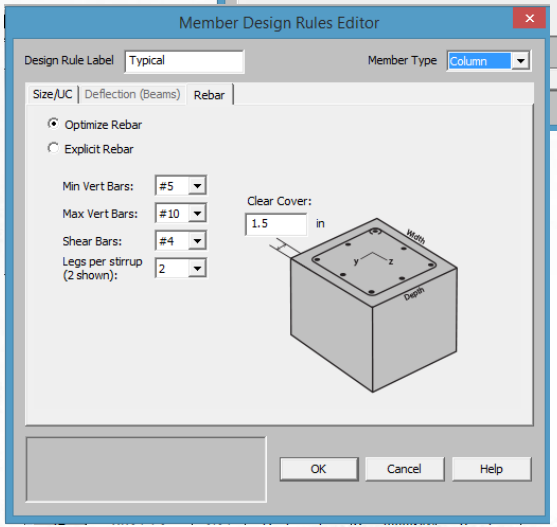
CONCRETE DESIGN RULES

Enhanced Concrete Design Rules

- New Easy to Use Graphical dialogs
- Easier modeling As-built situations
- Available in all RISA programs

Let's review these!



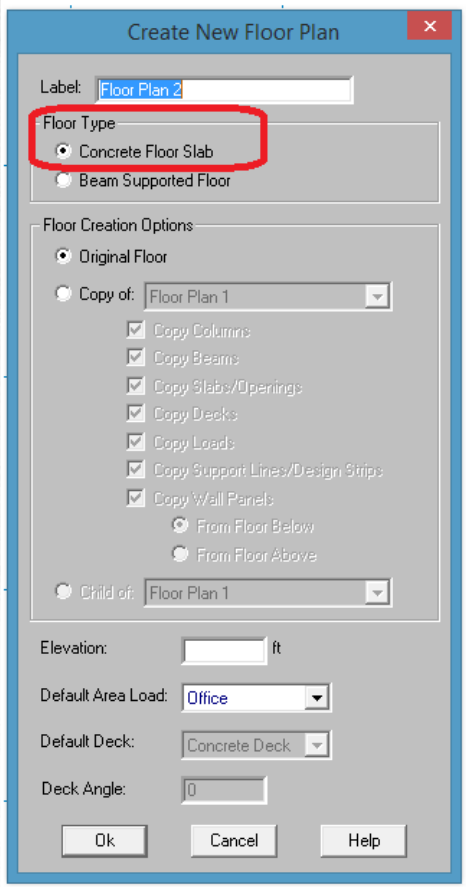


RISAFloor ES

All Concrete Design in new Floor Type:

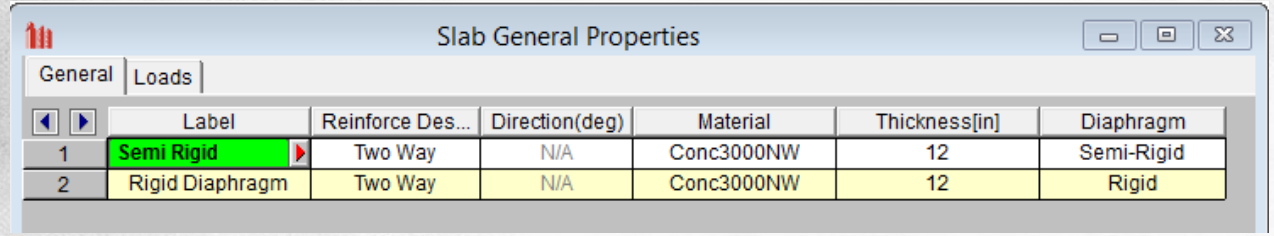
- Two-way Slab Design & Punching Shear
- One-way Slabs with beams
- T and L Beams

Let's review this now!

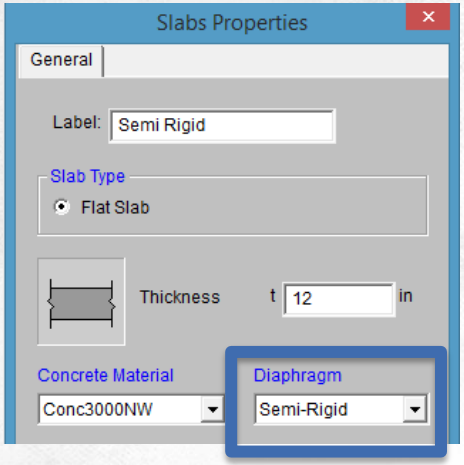


RISAFloor ES

Rigid or Semi Rigid Diaphragms



	Label	Reinforce Des...	Direction(deg)	Material	Thickness[in]	Diaphragm
1	Semi Rigid	Two Way	N/A	Conc3000NW	12	Semi-Rigid
2	Rigid Diaphragm	Two Way	N/A	Conc3000NW	12	Rigid



Modeling Tips:

- Rigid: Model only Lateral Element as “Lateral”
- Semi-Rigid: Model all Columns & Walls as “Lateral”

SEMI-RIGID WIND LOADS

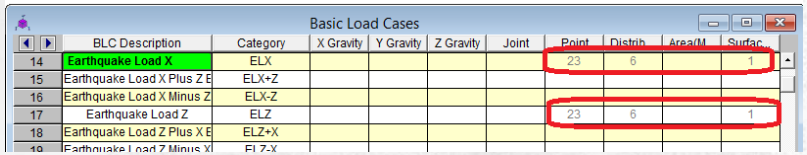
Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distrib...
28	Semi-Rigid Wind Load +X	WL+X						13
29	Semi-Rigid Wind Load -X	WL-X						13
30	Semi-Rigid Wind Load +Z	WL+Z						8
31	Semi-Rigid Wind Load -Z	WL-Z						8
32		None						

New Wind Load Categories:

- Distributed Loads Applied into Diaphragm

SEMI-RIGID EQ LOADS



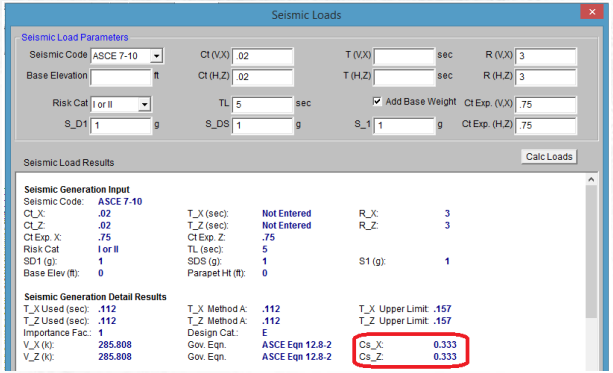
	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distrib.	Area/M	Surfac
14	Earthquake Load X	ELX					23	6		1
15	Earthquake Load X Plus Z E	ELX+Z								
16	Earthquake Load X Minus Z	ELX-Z								
17	Earthquake Load Z	ELZ					23	6		1
18	Earthquake Load Z Plus X E	ELZ+X								
19	Earthquake Load Z Minus X	ELZ-X								

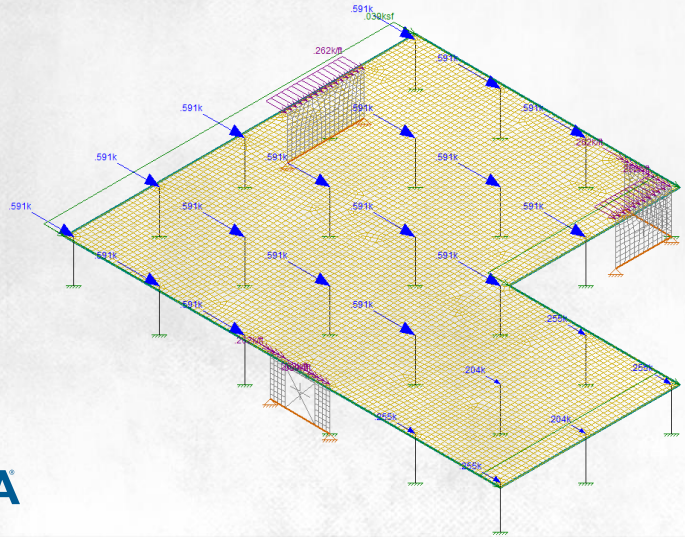
Earthquake Loads Categories:

- Surface Load applied into Diaphragm

  Wt of Slab + DynLoad *Cs

- Pt Loads → Wt of the Column or Walls * Cs

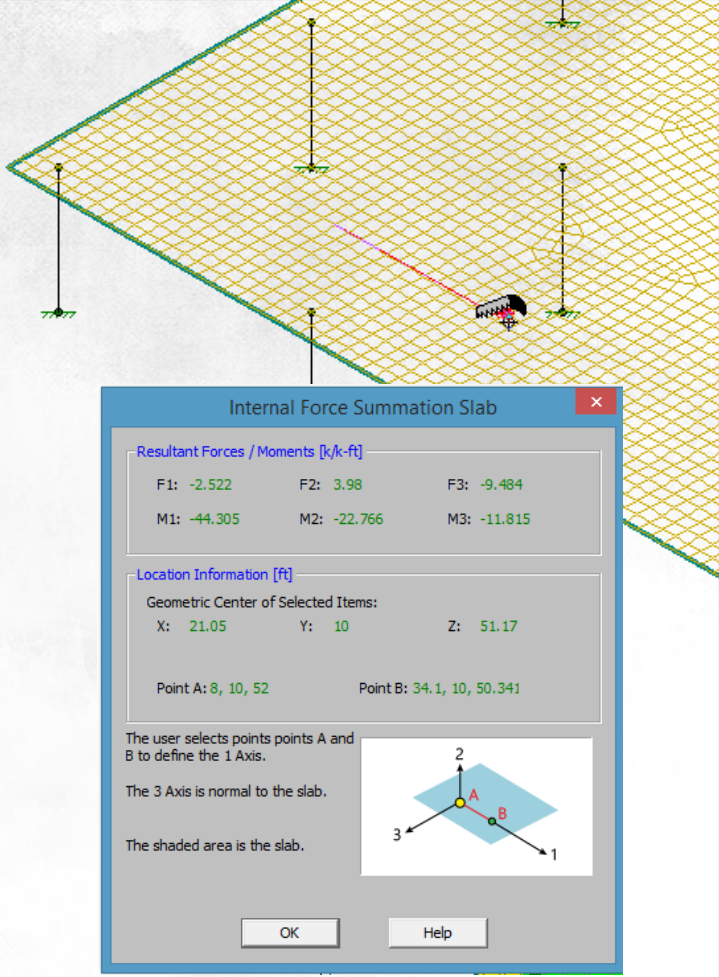




RISAFloor ES

Improved Internal Force Summation Tools

- Find Plate Forces in RISA-3D
- Slabs & Walls
- Find Localized Forces - Point to Point
- Based on the displayed results

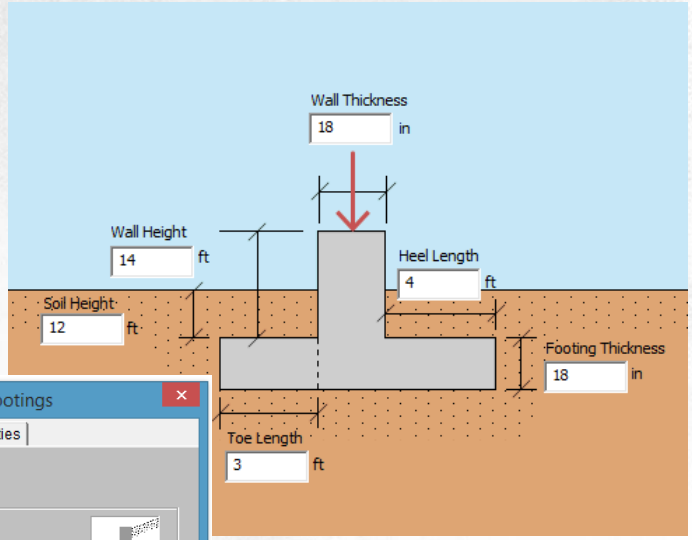


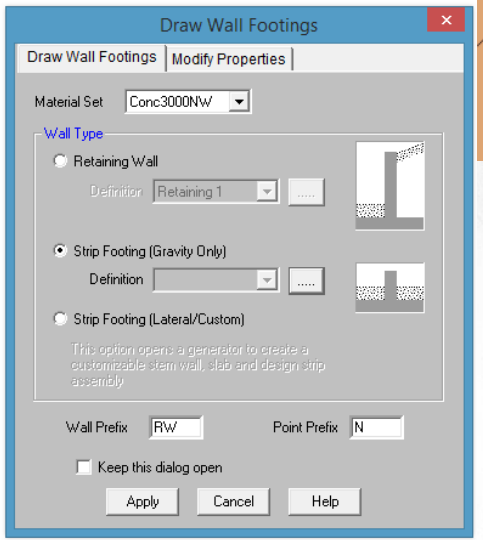
Let's see how these tools work!

RISAFOUNDATION

New Wall Strip Footings

- Strip Footing (Gravity Only)
- Strip Footing (Lateral/Custom)





Let's see these Footings!

QUESTIONS?

Please let us know if you have questions

- We will answer questions for the next 5 minutes
- Once the webinar is closed, we will post all Q&A's at risa.com
- For further information, contact us at: info@risa.com

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