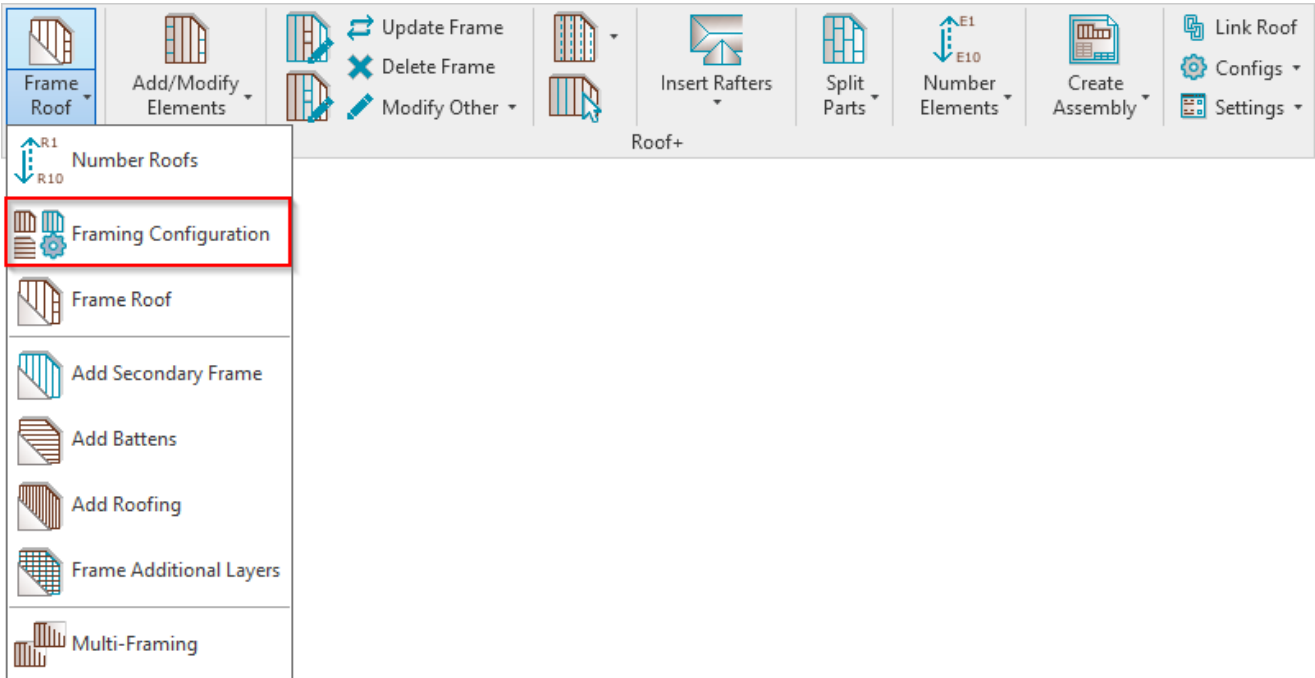


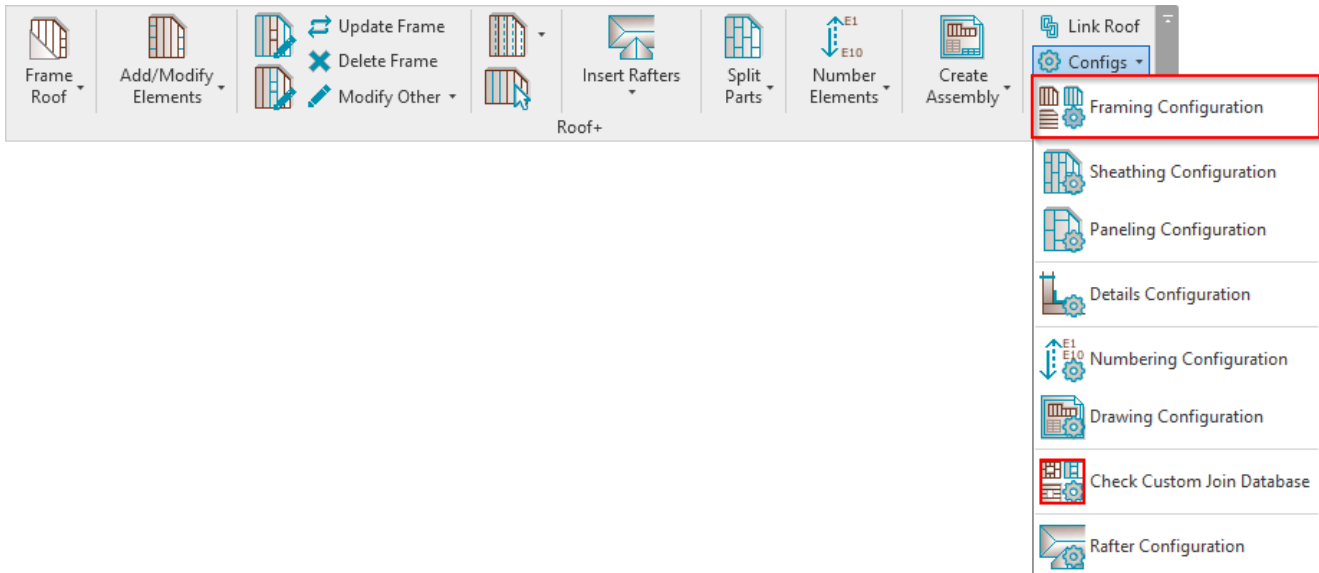
FRAMING CONFIGURATION – Roof Common Joists

Modified on: Sun, 10 Jan, 2021 at 5:13 PM










Framing Configuration may be found in two locations:



OR:



Roof Common Joists

-  Common Settings
-  Roof Common Joists
-  Opening Framing
-  End Connection
-  Edge Joist
-  Horizontal Joist/Rafter/Bridging
-  Secondary Joist
-  Brace
-  Joist Holes

Common Joist | Rim Joist 2 | Rim Joist 1 | Offsets

Add Joists

Align with Project Base Point

Joist Spacing

First/Last Spacing

Spacing

First/Last Spacing

Use for First
 Use for Last
 Use for Both

Custom Join

Read Layout from Database Configuration: Default Configuration


Configuration

Predefined Layout Name: Default Configuration Save to Database Duplicate Delete

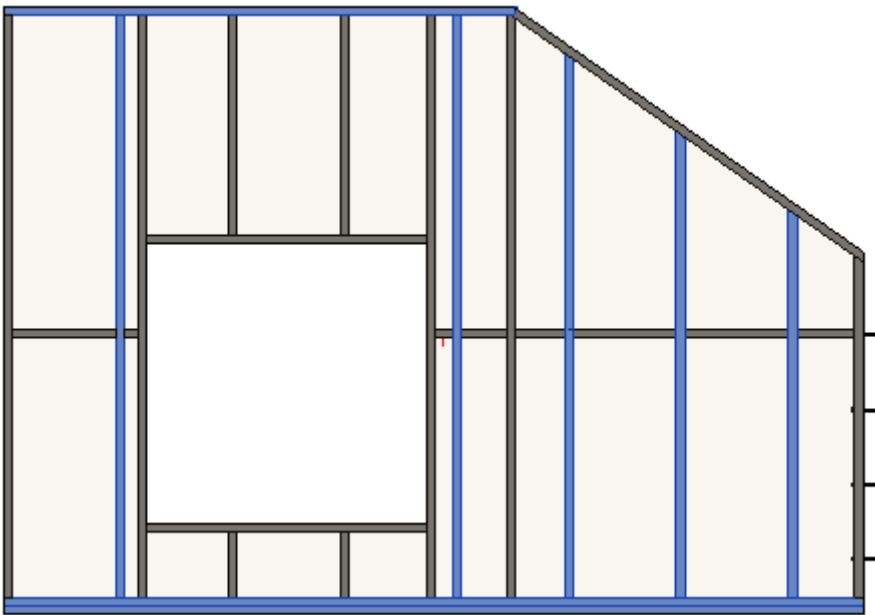
New Item
Remove Item
Move Up
Move Down

	X-Position	Count	Type	Define Depth...	Rotate 180°	Spacing
1	Standard	1	M_RWF Common Joist : LMBR 48x300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 mm
2	Standard	1	M_RWF Common Joist : LMBR 48x300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 mm

Symbolic Preview



Roof Common Joists – here you can control regular joists (**Common Joist** tab), top (**Rim Joist 2** tab) joists and bottom (**Rim Joist 1** tab) joists:



Add Joists

Common Joist Rim Joist 2 Rim Joist 1 Offsets

Add Joists

Align with Project Base Point

Joist Spacing

First/Last Spacing
Spacing

First/Last Spacing
 Use for First
 Use for Last
 Use for Both

Custom Join
Read Layout from Database Configuration:

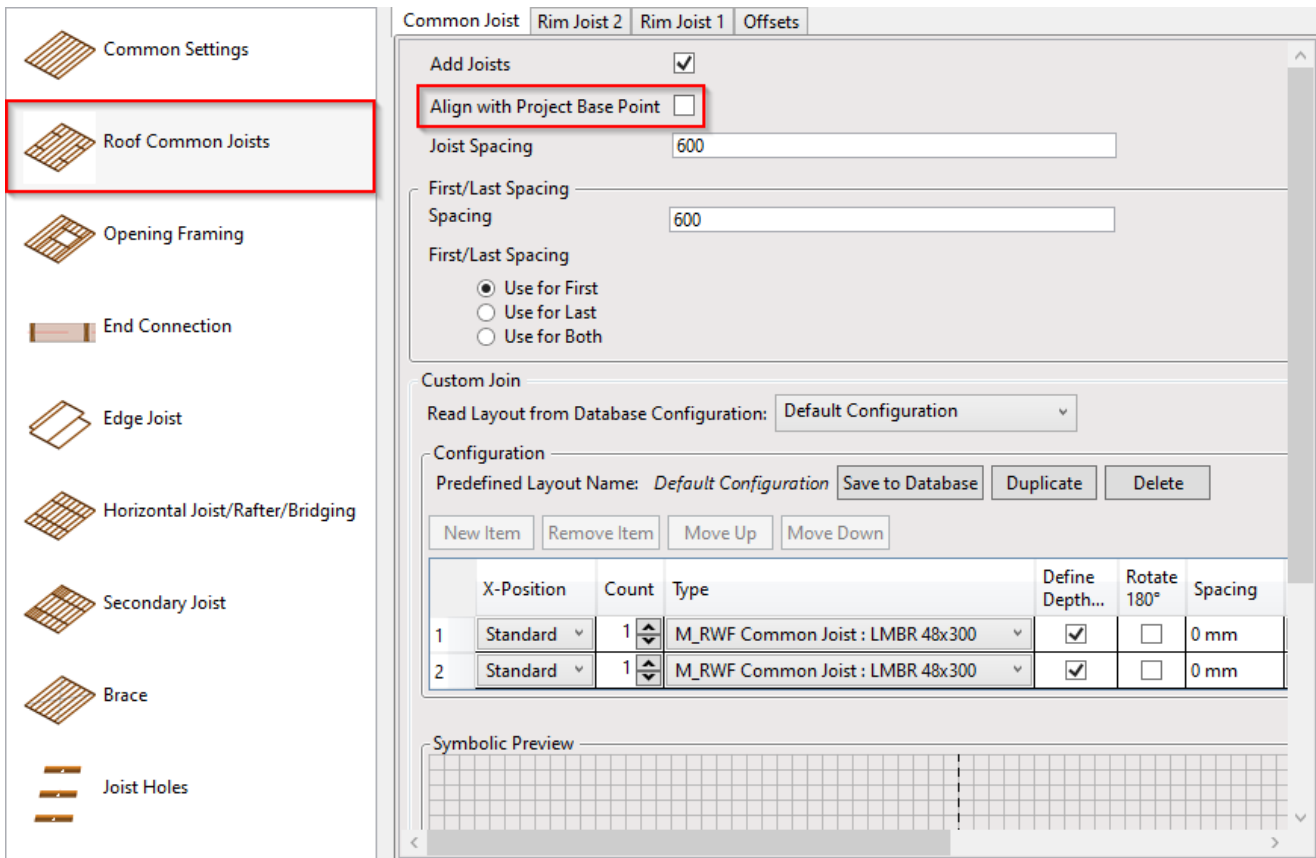
Configuration
Predefined Layout Name: *Default Configuration*

	X-Position	Count	Type	Define Depth...	Rotate 180°	Spacing
1	Standard	1	M_RWF Common Joist : LMBR 48x300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 mm
2	Standard	1	M_RWF Common Joist : LMBR 48x300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 mm

Symbolic Preview

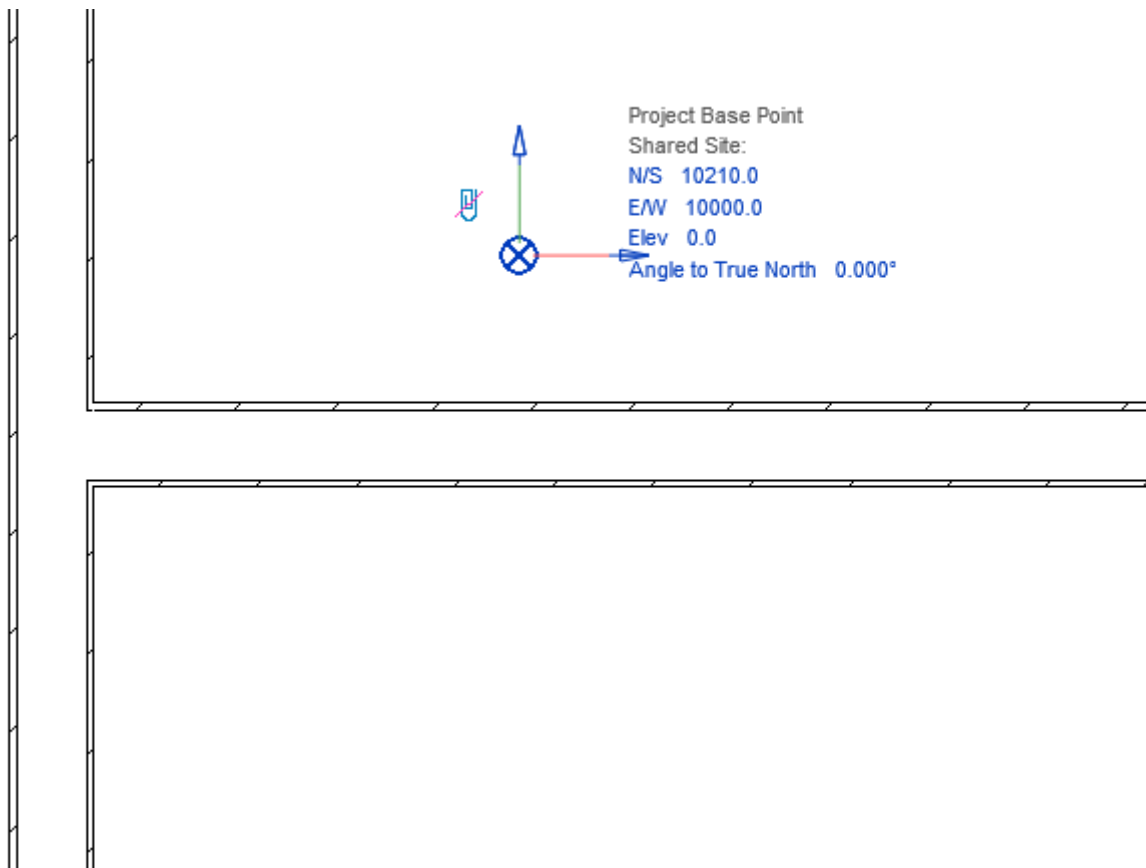
Add Joists – adds joists with rules listed below to the frame. The frame can be created without joists, just using, for example, horizontal elements.

Align with Project Base Point

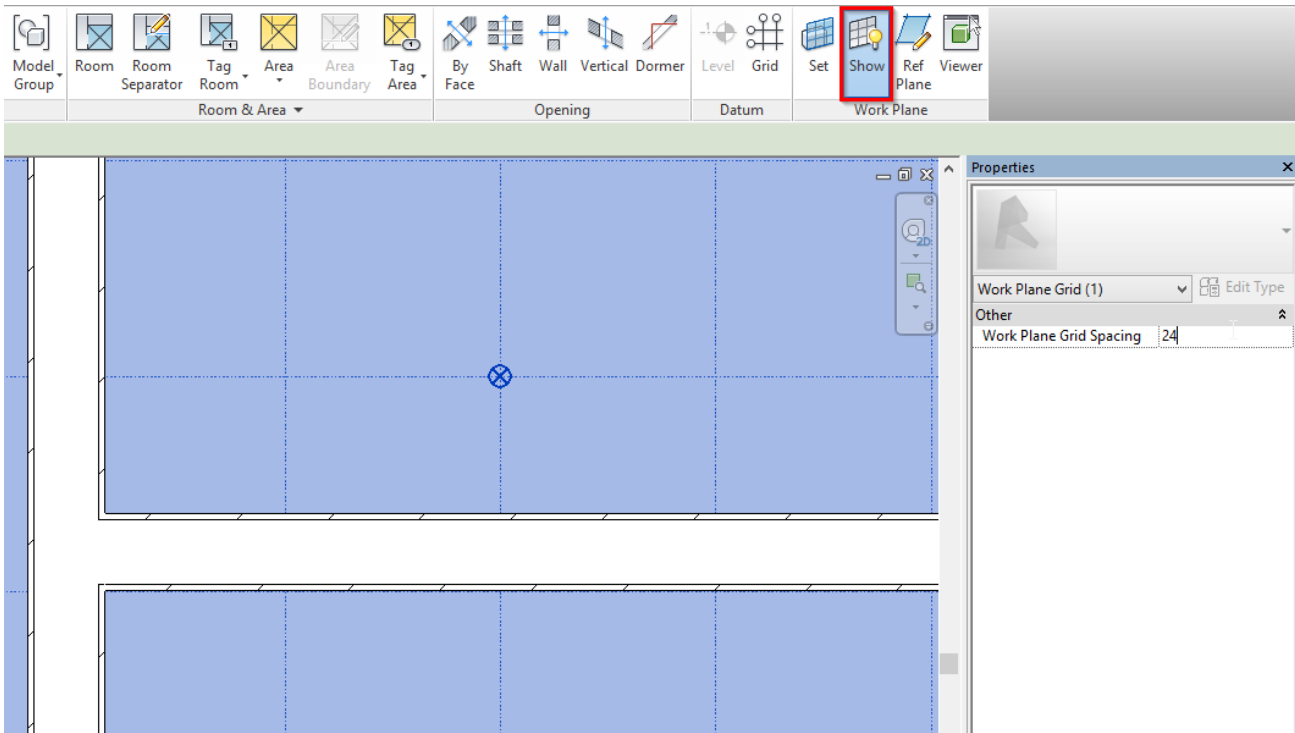


Align with Project Base Point – allows joists to be positioned not only in relation to each other but according to Revit gridlines.

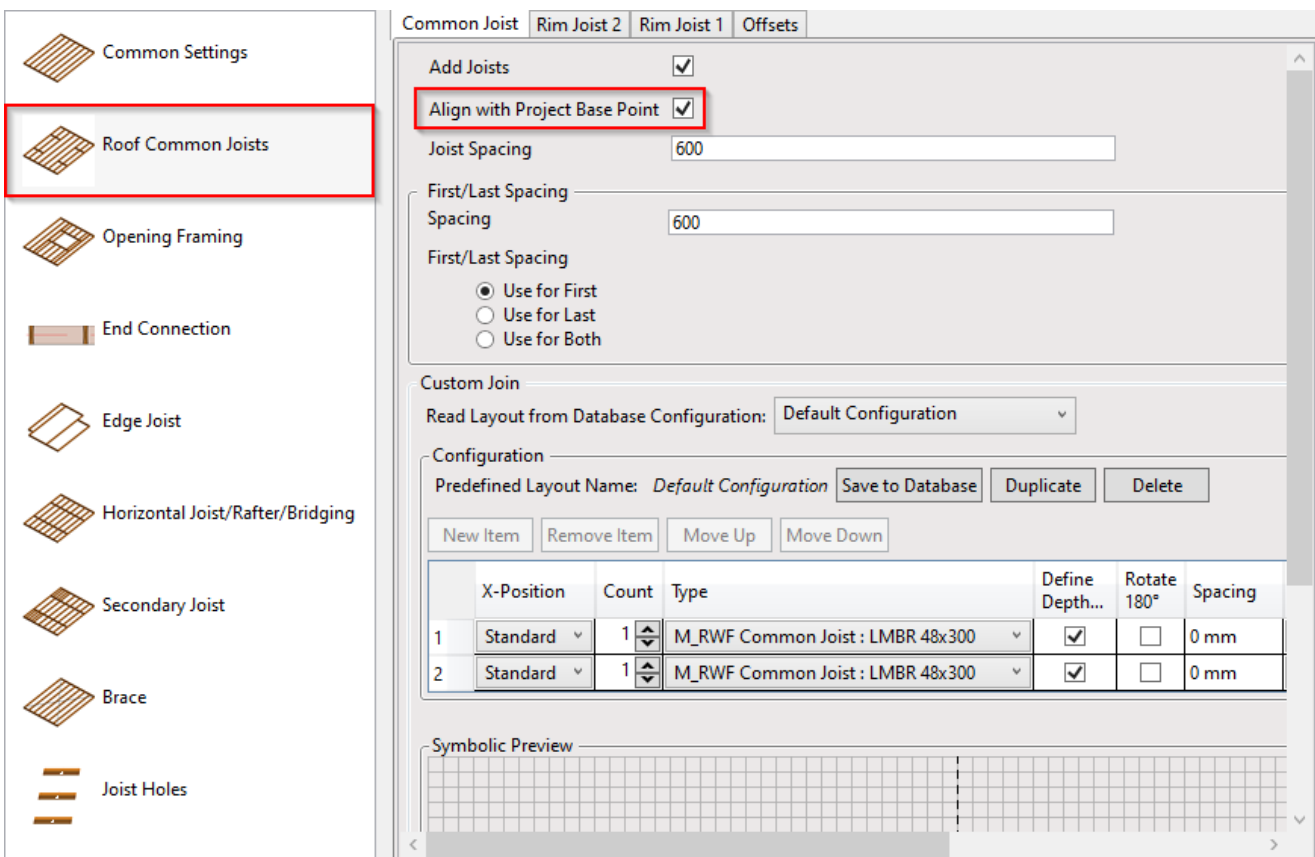
First step – unclip the state of the Revit **Project Base Point** and move it to the needed position:



For more convenience, switch on Revit **Work Plane** and move it to the **Project Base Point**. It will help you to understand if the studs or joists are created in the right position:



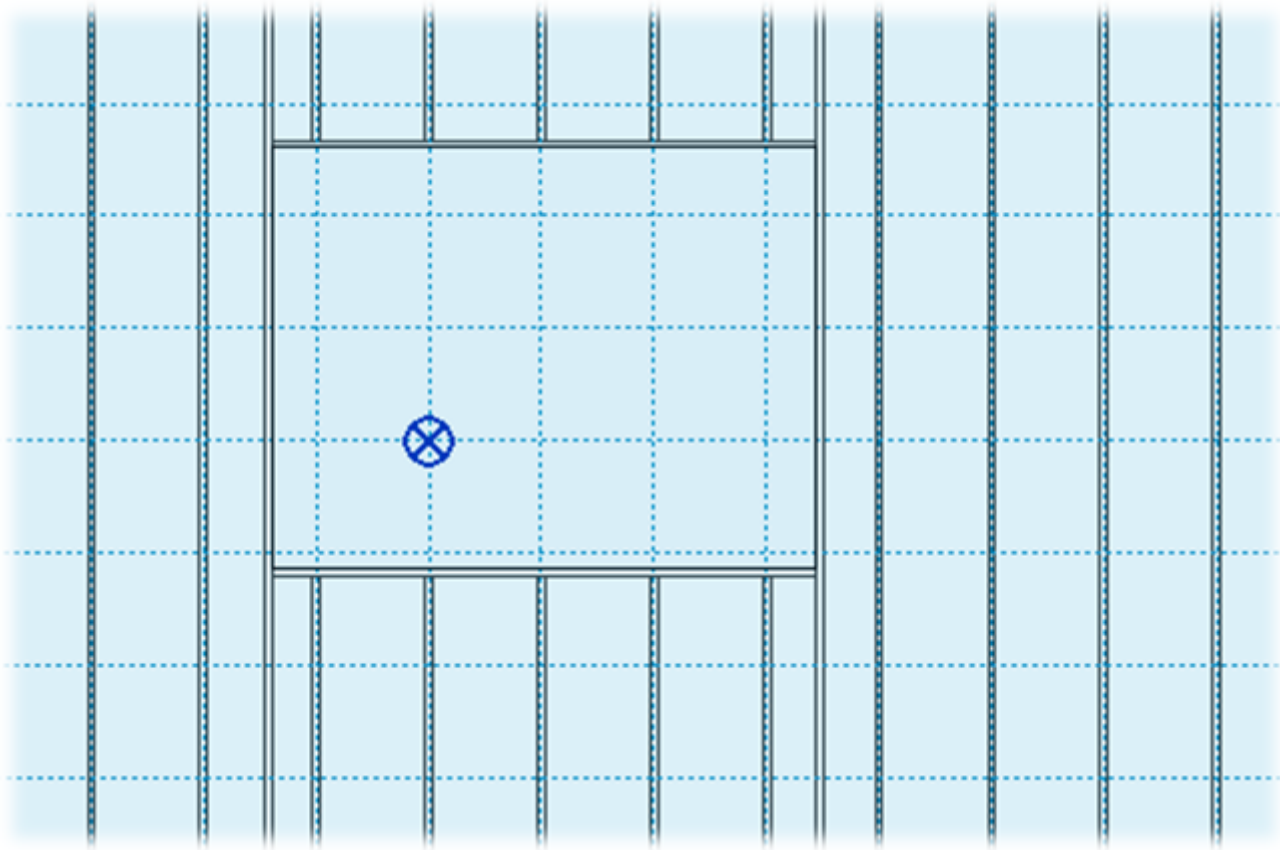
Turn on **Align with Project Base Point** in the **Framing Configuration** dialog:



Frame the walls, floors, or roof.









Joists are positioned on the gridlines – and where necessary to fill in gaps or form intersections – so that they always match up across a corridor or room.

Notice how the joists are spaced according to the grid.



In the case you need to relocate the frame, just move the **Project Base Point** to the new position and update the frame!

Joist Spacing and First/Last Spacing

-  Common Settings
-  Roof Common Joists
-  Opening Framing
-  End Connection
-  Edge Joist
-  Horizontal Joist/Rafter/Bridging
-  Secondary Joist
-  Brace

Common Joist
Rim Joist 2
Rim Joist 1
Offsets

Add Joists

Align with Project Base Point

Joist Spacing

First/Last Spacing Spacing

First/Last Spacing

Use for First

Use for Last

Use for Both

Custom Join

Read Layout from Database Configuration: -- Select --

Configuration

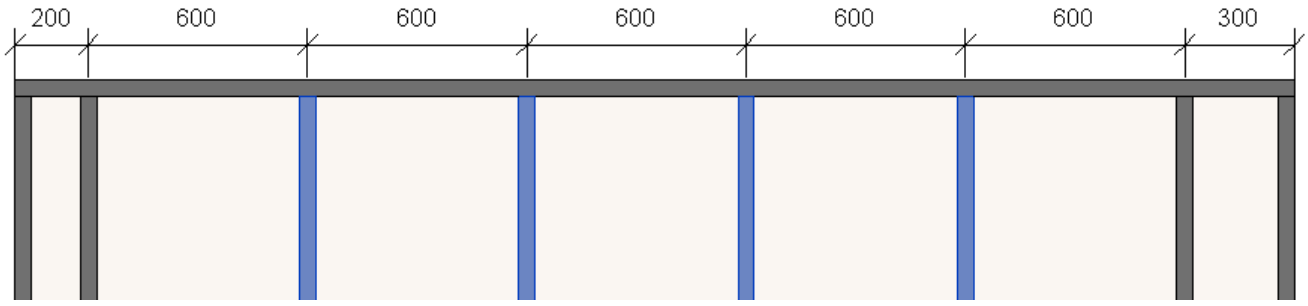
Predefined Layout Name: *Joist* Save to Database Duplicate Delete

New Item Remove Item Move Up Move Down

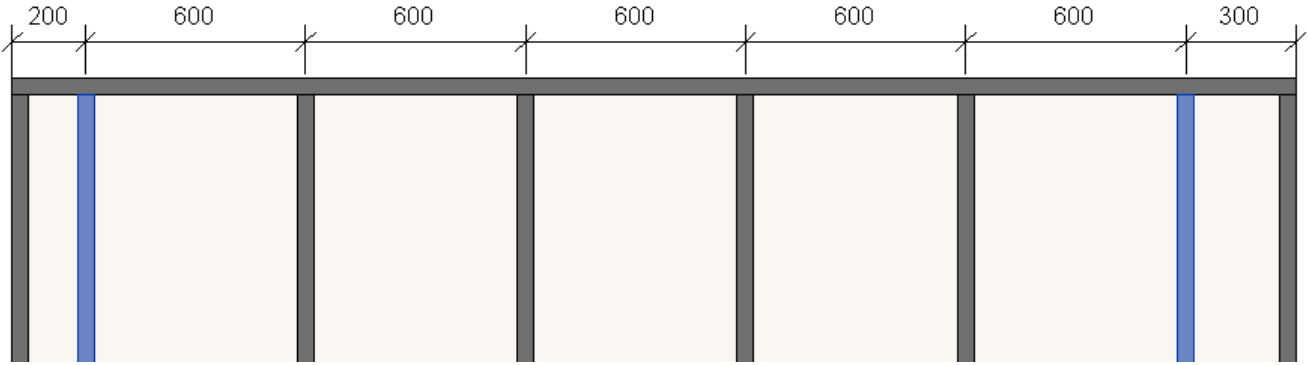
	X-Position	Count	Type	Define Depth...	Rotate 180°
1	Center	1	M_RWF Common Joist : LMBR 48x300	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Symbolic Preview

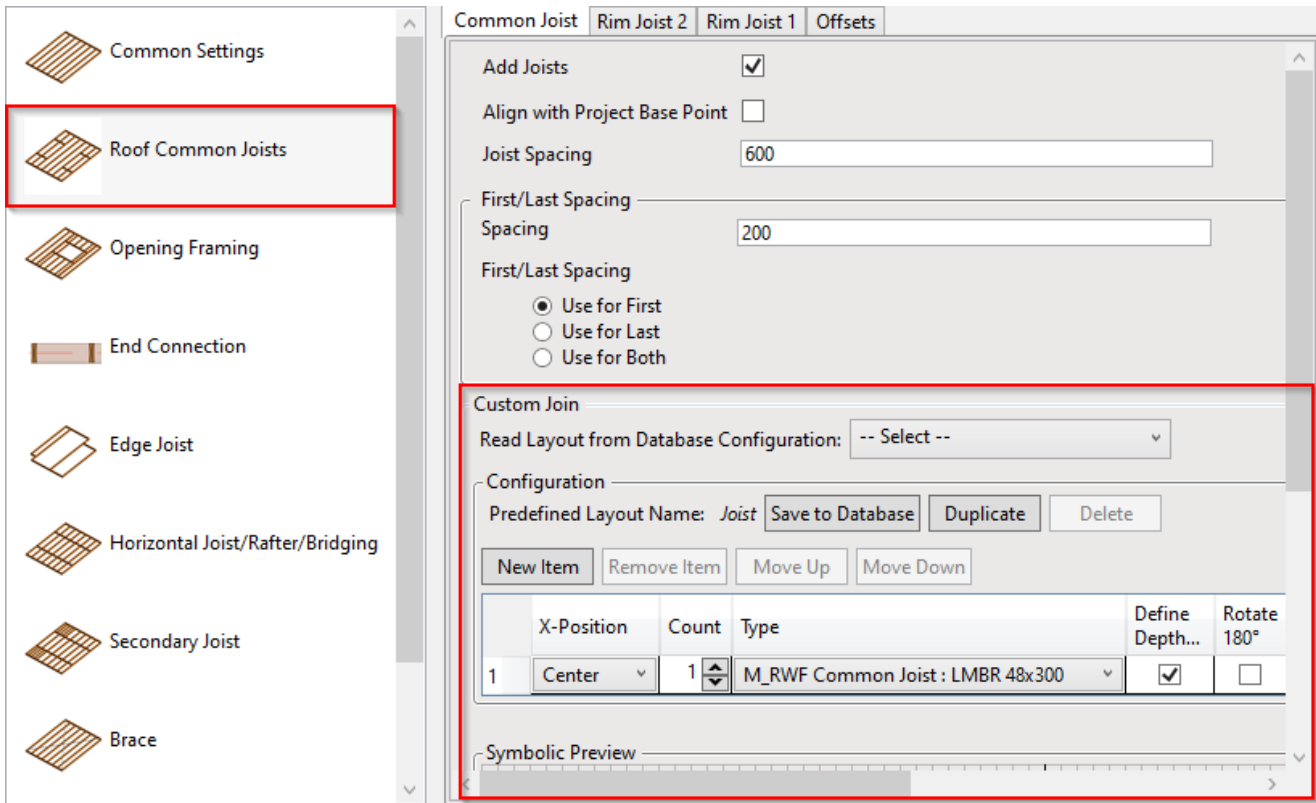
Joist Spacing – defines the distance between the joists.



First/Last Spacing – first spacing will be on the side of the left side, and last on the right side.

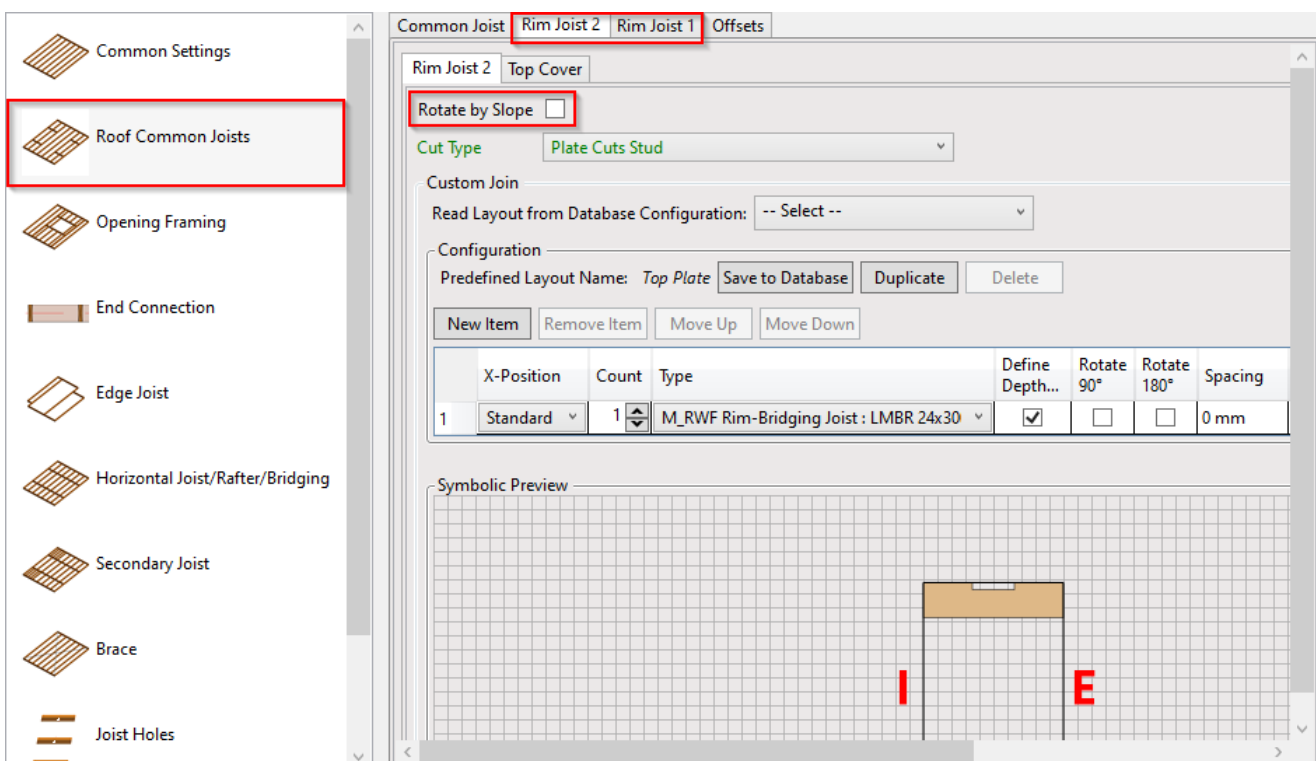


Custom Join



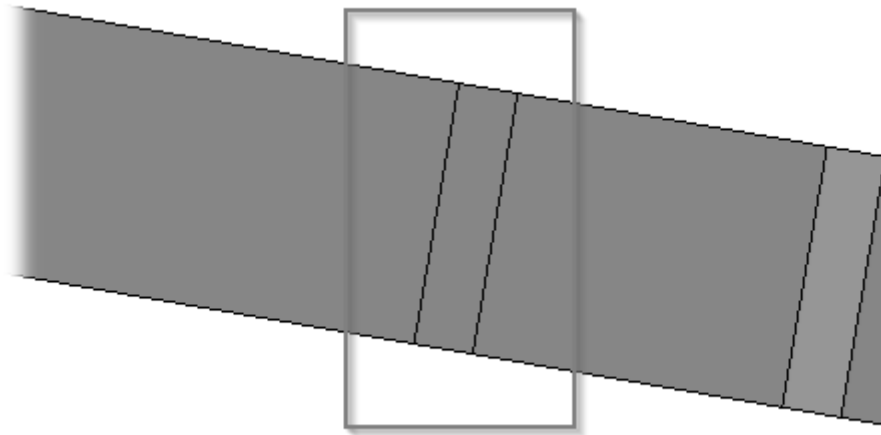
Custom Join – is a multi-functional dialog where user can define rules for joins including size, count, position, rotation, spacing, alignment etc. All these rules can be saved and used in other framing configurations or shared with other users. This type of dialog is used frequently in our products, so here you can find [Custom Join detailed description](https://agacad.freshdesk.com/support/solutions/articles/44001990031-custom-join) >> (<https://agacad.freshdesk.com/support/solutions/articles/44001990031-custom-join>).

Rotate by Slope

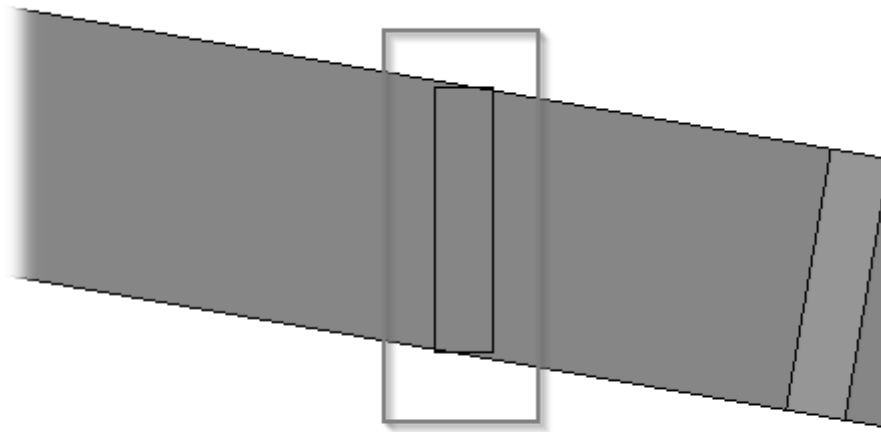


Rotate by Slope – rotates rim joist by roof slope.

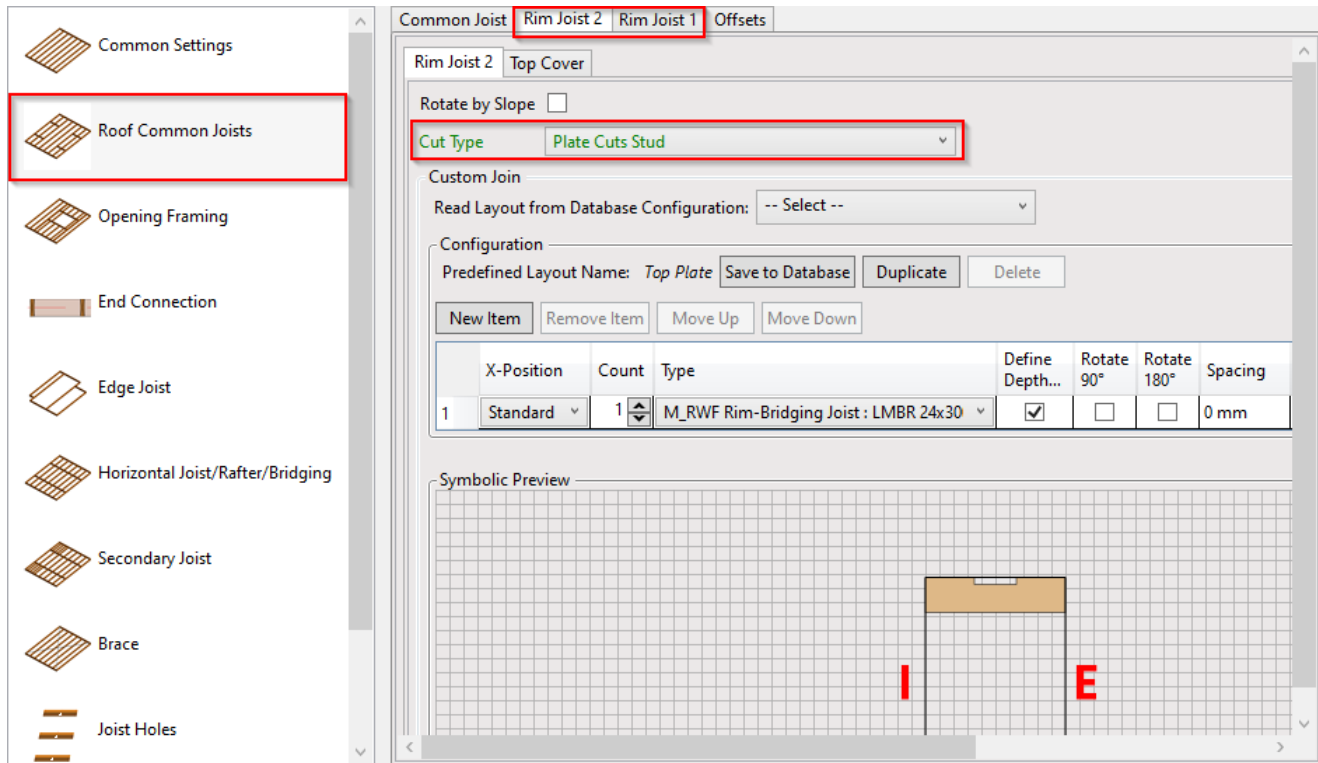
Ticked:



Unticked:



Cut Type



Common Joist **Rim Joist 2** Rim Joist 1 Offsets

Rim Joist 2 Top Cover

Rotate by Slope

Cut Type **Plate Cuts Stud**

Custom Join

Read Layout from Database Configuration: -- Select --

Configuration

Predefined Layout Name: *Top Plate* Save to Database Duplicate Delete

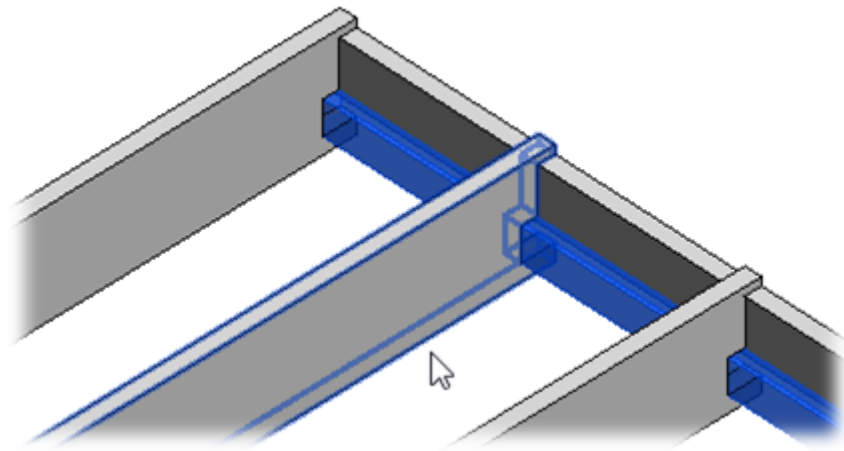
New Item Remove Item Move Up Move Down

	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Spacing
1	Standard	1	M_RWF Rim-Bridging Joist : LMBR 24x30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm

Symbolic Preview

Cut Type – select Rim Joist cutting type.

*Example: when **Plate Cut Studs** is selected:*



Number of Elements not Cut

Common Joist Rim Joist 2 **Rim Joist 1** Offsets

Rim Joist 1 Bottom Pad

Rotate by Slope

Cut Type Plate Cuts Stud

Number of Elements not Cut 0

Custom Join

Read Layout from Database Configuration: -- Select --

Configuration

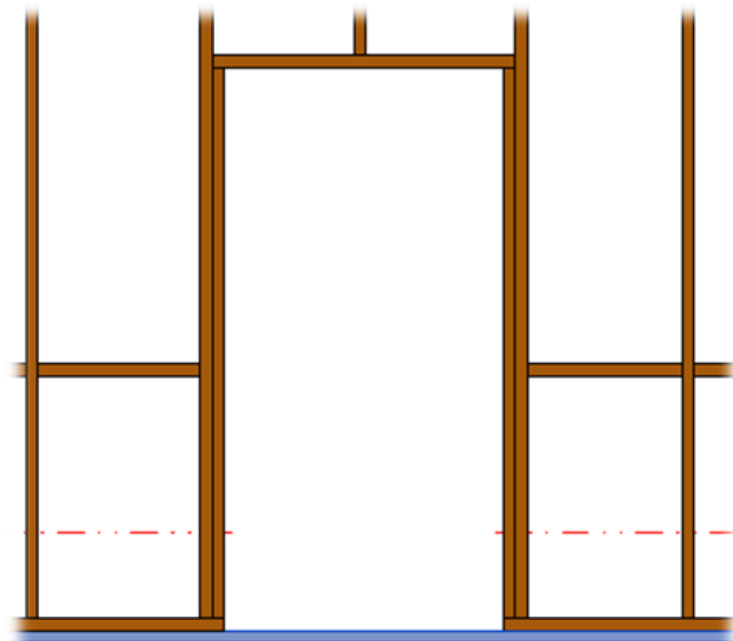
Predefined Layout Name: Bottom Plate Save to Database Duplicate Delete

New Item Remove Item Move Up Move Down










	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Spacing	Posit
1	Standard	1	M_RWF Rim-Bridging Joist : LMBR 24x30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm	Cent

Symbolic Preview

Number of Elements not Cut – if there is at least one rim joist 1, you can cut it or leave it as a whole.



Top Cover/Bottom Pad

-  Common Settings
-  Roof Common Joists
-  Opening Framing
-  End Connection
-  Edge Joist
-  Horizontal Joist/Rafter/Bridging
-  Secondary Joist
-  Brace
-  Joist Holes

Common Joist
Rim Joist 2
Rim Joist 1
Offsets

Rim Joist 2 Top Cover

Custom Join

Read Layout from Database Configuration: -- Select --

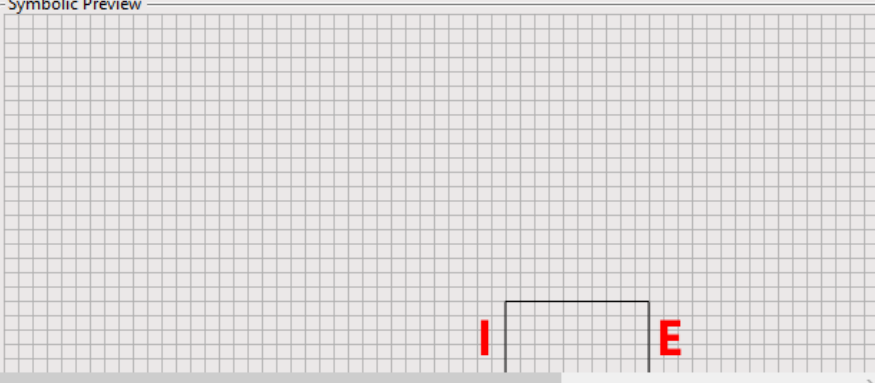
Configuration

Predefined Layout Name: *Top Plate* Save to Database Duplicate Delete

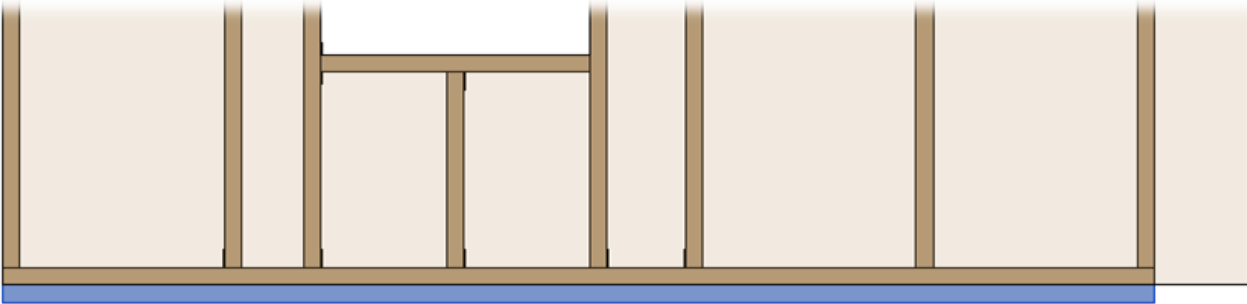
New Item Remove Item Move Up Move Down

	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Spacing
1	Standard	0	M_RWF Rim-Bridging Joist : LMBR 24x30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm

Symbolic Preview



Top Cover/Bottom Pad will be added above/below the main frame.



Custom Join

Common Joist Rim Joist 2 Rim Joist 1 Offsets

Rim Joist 1 Bottom Pad

Rotate by Slope

Cut Type Plate Cuts Stud

Number of Elements not Cut 0

Custom Join

Read Layout from Database Configuration: -- Select --

Configuration

Predefined Layout Name: Bottom Plate Save to Database Duplicate Delete

New Item Remove Item Move Up Move Down

	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Spacing	Position
1	Standard	1	M_RWF Rim-Bridging Joist : LMBR 24x30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm	Cent

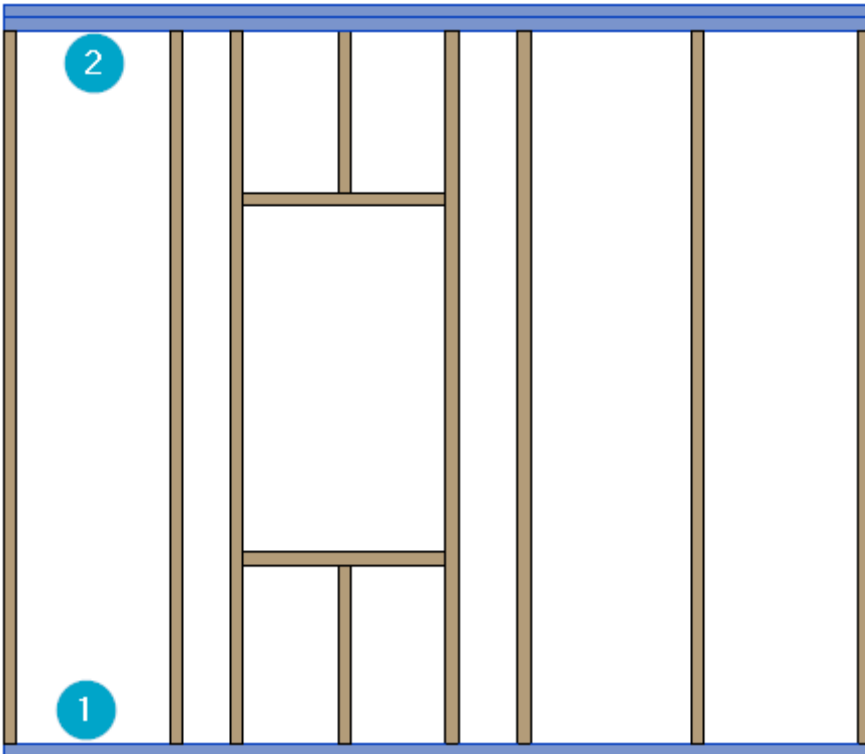
Symbolic Preview

I E

Example:

1 - Rim Joist 1, Count = 1

2 - Rim Joist 2, Count = 2



Custom Join – is a multi-functional dialog where user can define rules for joins including size, count, position, rotation, spacing, alignment etc. All these rules can be saved and used in other framing configurations or shared with other users. This type of dialog is used frequently in our products, so here you can find [Custom Join detailed description](https://agacad.freshdesk.com/support/solutions/articles/44001990031-custom-join) >> (<https://agacad.freshdesk.com/support/solutions/articles/44001990031-custom-join>).

Offsets

Common Settings	Common Joist	Rim Joist 2	Rim Joist 1	Offsets
	Framing Top/End Offset	0	<input checked="" type="checkbox"/>	Apply Horizontally
	Framing Sloped Top/End Offset	-24	<input checked="" type="checkbox"/>	Apply Horizontally
	Framing Bottom/Base Offset	0	<input checked="" type="checkbox"/>	Apply Horizontally
Roof Common Joists	Framing Sloped Bottom/Base Offset	24	<input checked="" type="checkbox"/>	Apply Horizontally
	Opening Framing			

Offset – frame offsets from roof end or base.

Example, framing top offset = -200:

