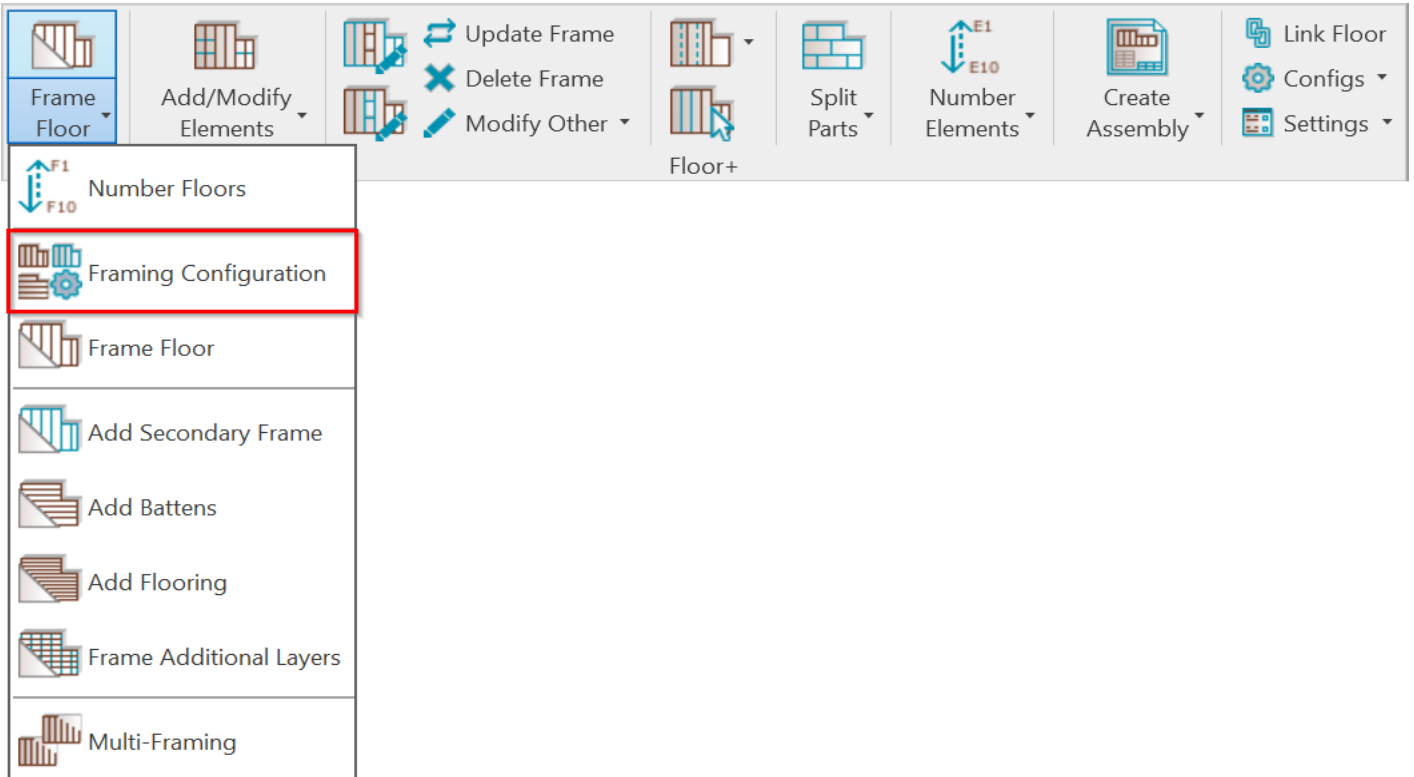


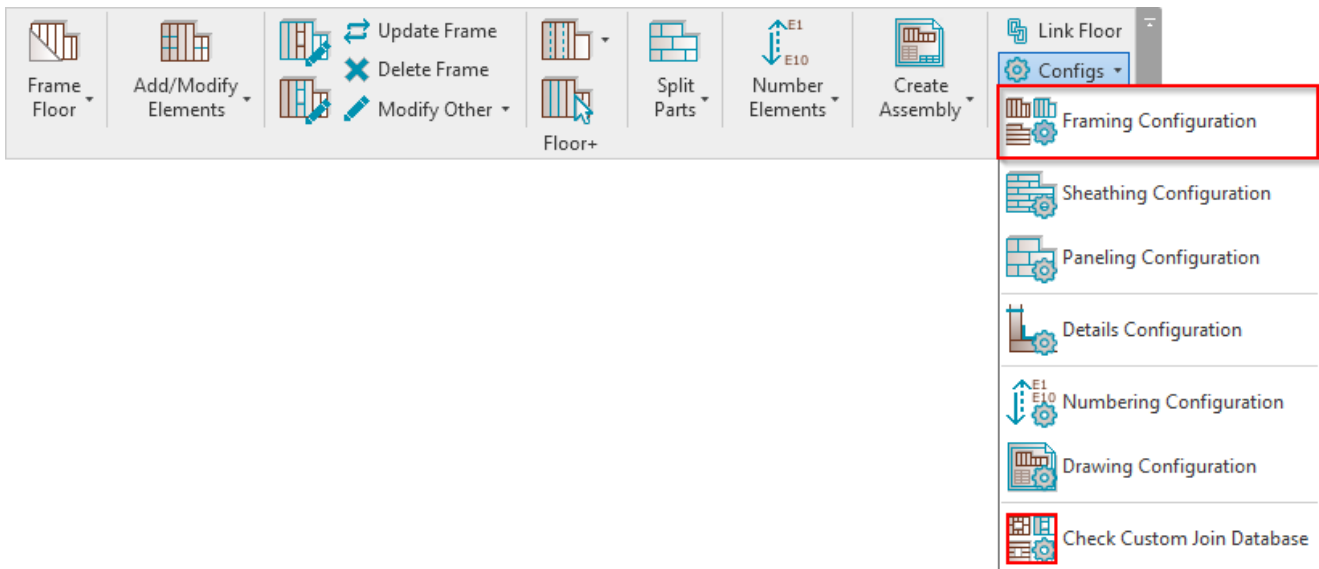
FRAMING CONFIGURATION – Opening Framing – Edit

Modified on: Thu, 7 Jan, 2021 at 7:08 PM

Framing Configuration may be found in two locations:

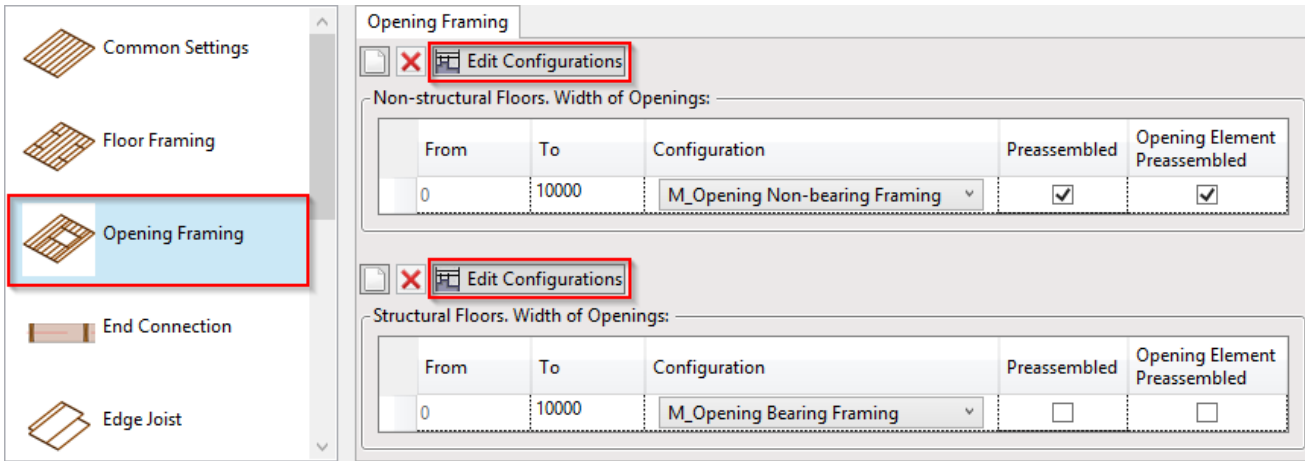


OR:



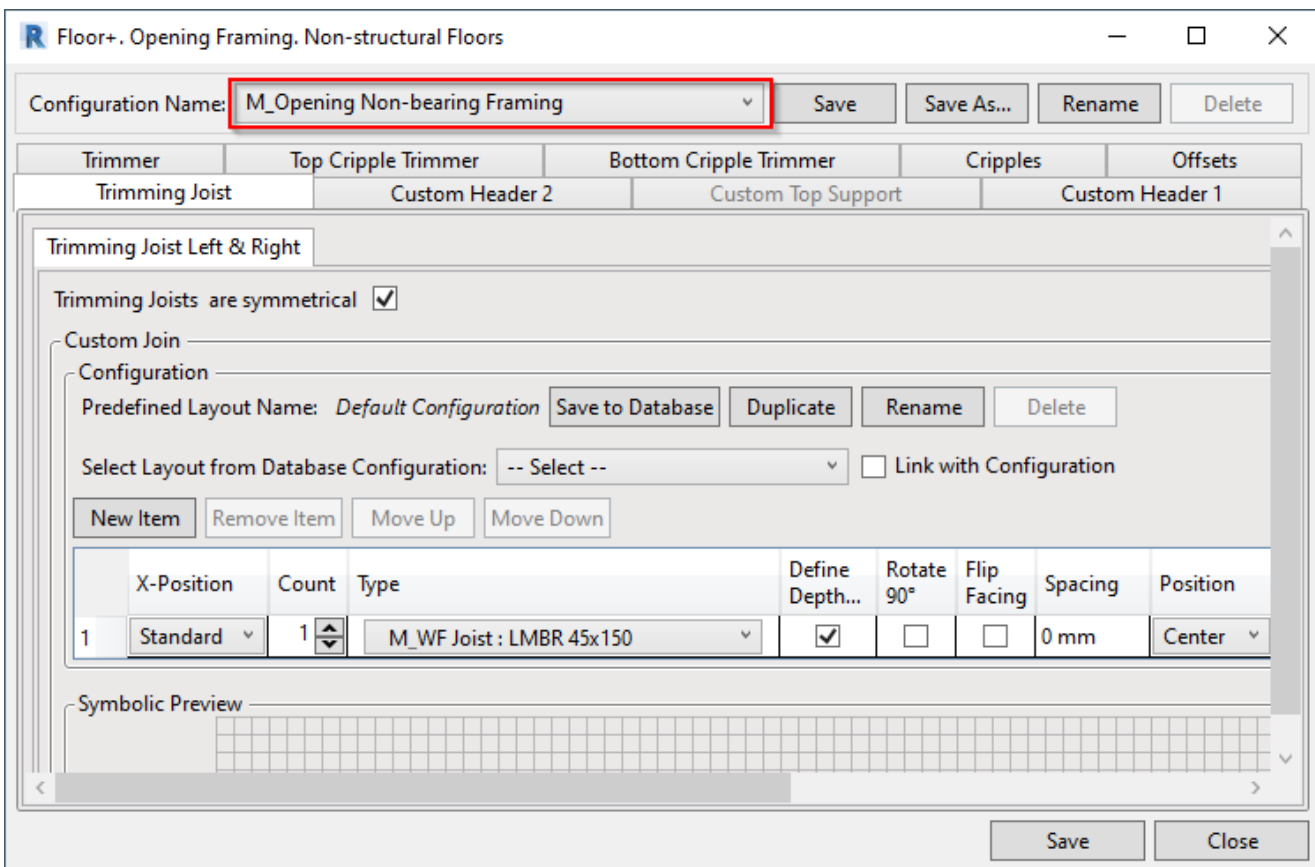
Edit Opening Framing Configuration

In order to edit, create new, rename, or delete opening framing configuration, you have to click **Edit Configuration** for the structural or non-structural floors:



Default configurations will come together with the software. Default path to opening configurations is:
C:\Users\user name\AppData\Roaming\Tools 4 Revit\Floor+(version) Configurations\Framing Configurations\Metric or Imperial\Configuration name

It saves all the settings of trimmer joists, headers, trimmers, other joists that are listed down below in the dialog:



Trimming Joist

Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
Trimming Joist	Custom Header 2	Custom Top Support	Custom Header 1	

Trimming Joist Left & Right

Trimming Joists are symmetrical

Custom Join

Configuration

Predefined Layout Name: *Default Configuration*

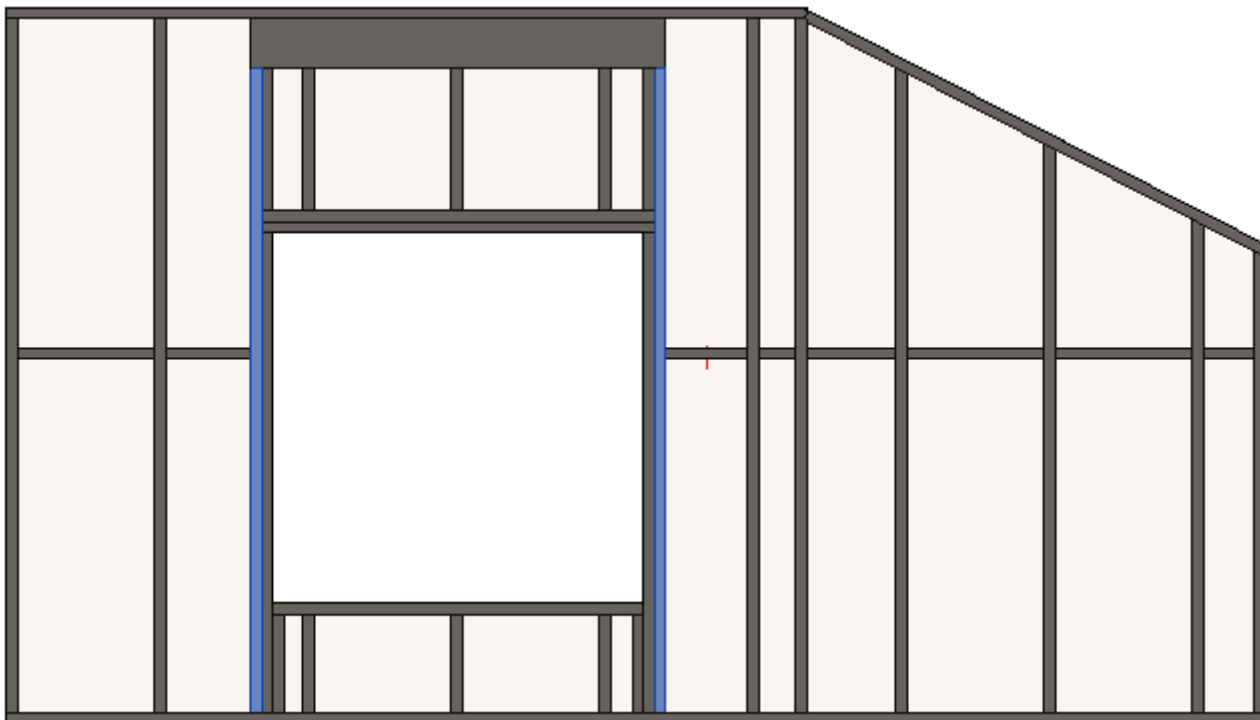
Select Layout from Database Configuration: -- Select -- Link with Configuration

	X-Position	Count	Type	Define Depth...	Rotate 90°	Flip Facing	Spacing	Position
1	Standard	1	M_WF Joist : LMBR 45x150	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm	Center

Symbolic Preview

Trimming Joist tab – in this tab you will find all settings for creating trimming joist needed for the opening.

Trimming Joists are symmetrical – switch this *OFF* if trimming joists should be different on the left and right sides.



Custom Join

Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
Trimming Joist	Custom Header 2	Custom Top Support	Custom Header 1	

Trimming Joist Left & Right

Trimming Joists are symmetrical

Custom Join

Configuration

Predefined Layout Name: *Default Configuration*

Select Layout from Database Configuration: -- Select -- Link with Configuration

	X-Position	Count	Type	Define Depth...	Rotate 90°	Flip Facing	Spacing	Position
1	Standard	1	M_WF Joist : LMBR 45x150	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm	Center

Symbolic Preview

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>)

Custom Header 1, Custom Header 2

Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
Trimming Joist	Custom Header 2	Custom Top Support	Custom Header 1	

Additional Parameters

Rotate by Slope

Move for Skylight

Custom Join

Configuration

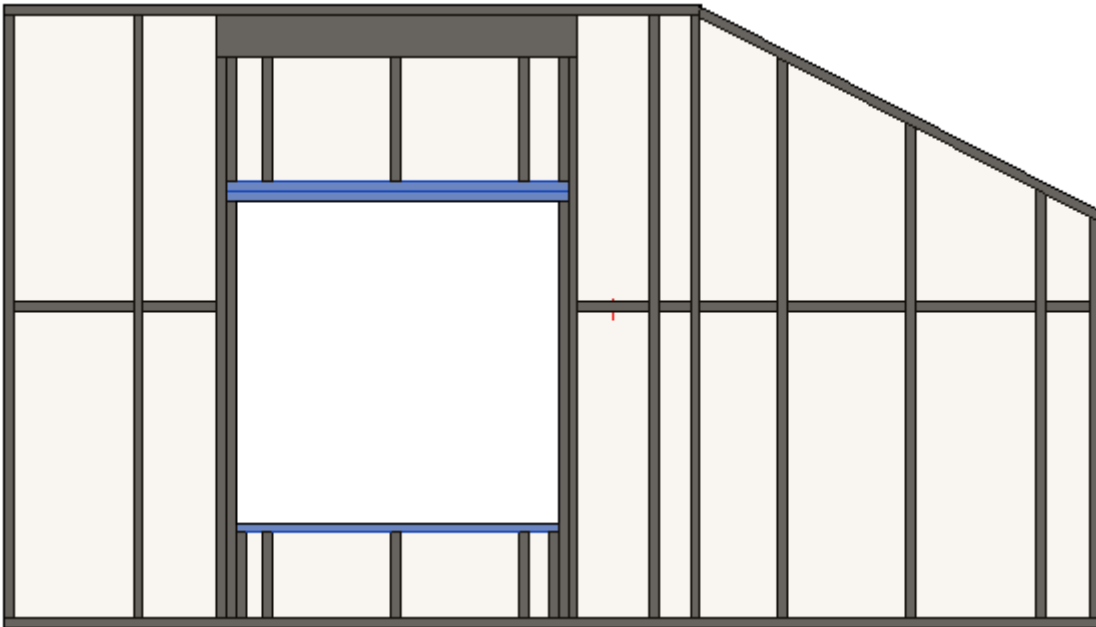
Predefined Layout Name: *1HOVOH1Z*

Select Layout from Database Configuration: -- Select -- Link with Configuration

	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Flip Facing
1	Standard	1	M_WF Rim-Bridging Joist : LMBR 45x150	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

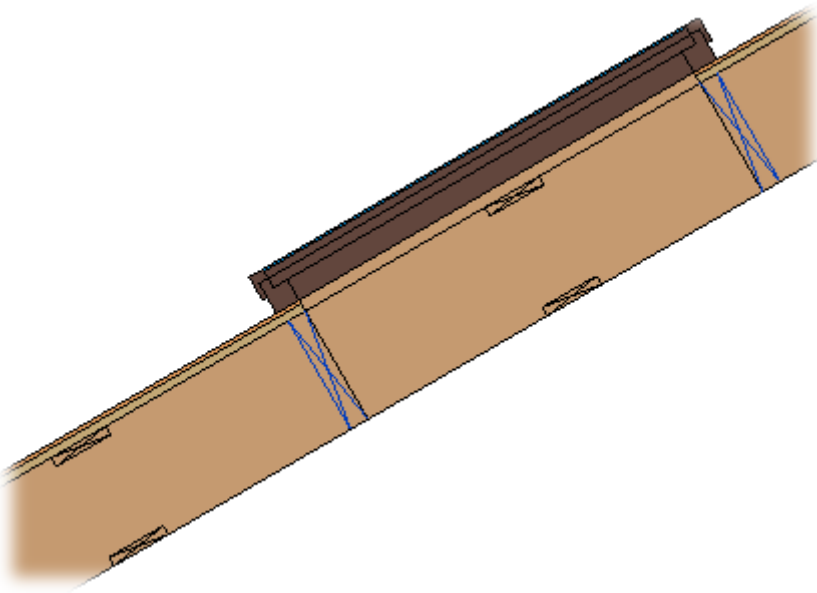
Symbolic Preview

Custom Header 1/2 tab – in this tab you will find all settings for creating headers/sills needed for the opening.



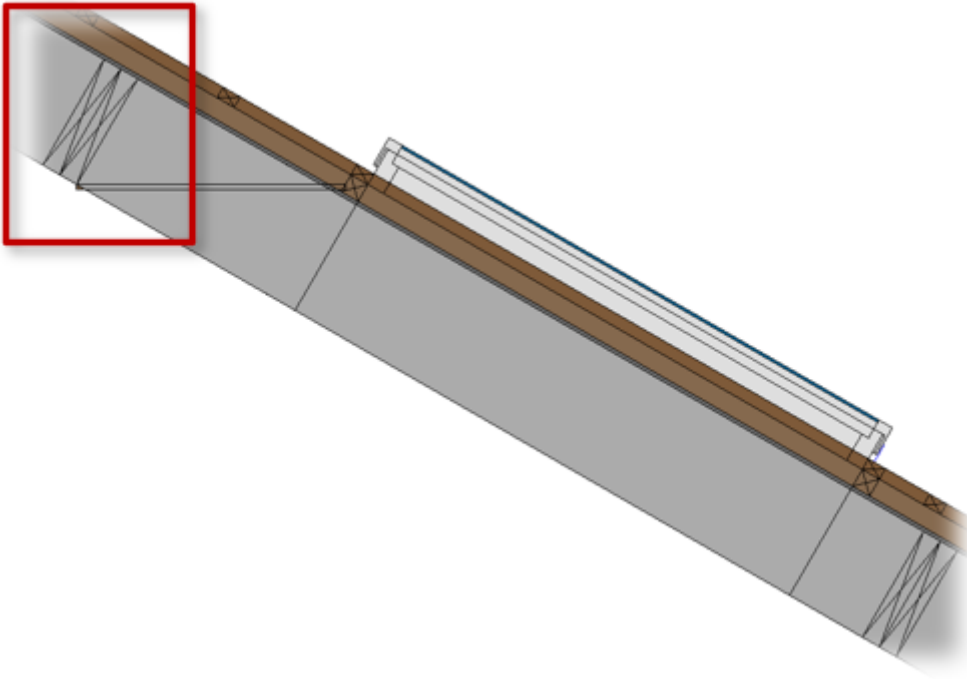
Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
Trimming Joist	Custom Header 2	Custom Top Support		Custom Header 1
Additional Parameters				
Rotate by Slope		<input checked="" type="checkbox"/>		
Move for Skylight		<input type="checkbox"/>		

Rotate by Slope – rotates an element according to the floor slope.



Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
Trimming Joist	Custom Header 2	Custom Top Support		Custom Header 1
Additional Parameters				
Rotate by Slope		<input checked="" type="checkbox"/>		
Move for Skylight		<input type="checkbox"/>		

Move for Skylight – if ticked, then the header will be moved to make a real skylight frame.



Custom Top Support

Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
Trimming Joist	Custom Header 2	Custom Top Support		Custom Header 1

Custom Join

Read Layout from Database Configuration: Default Configuration

Configuration

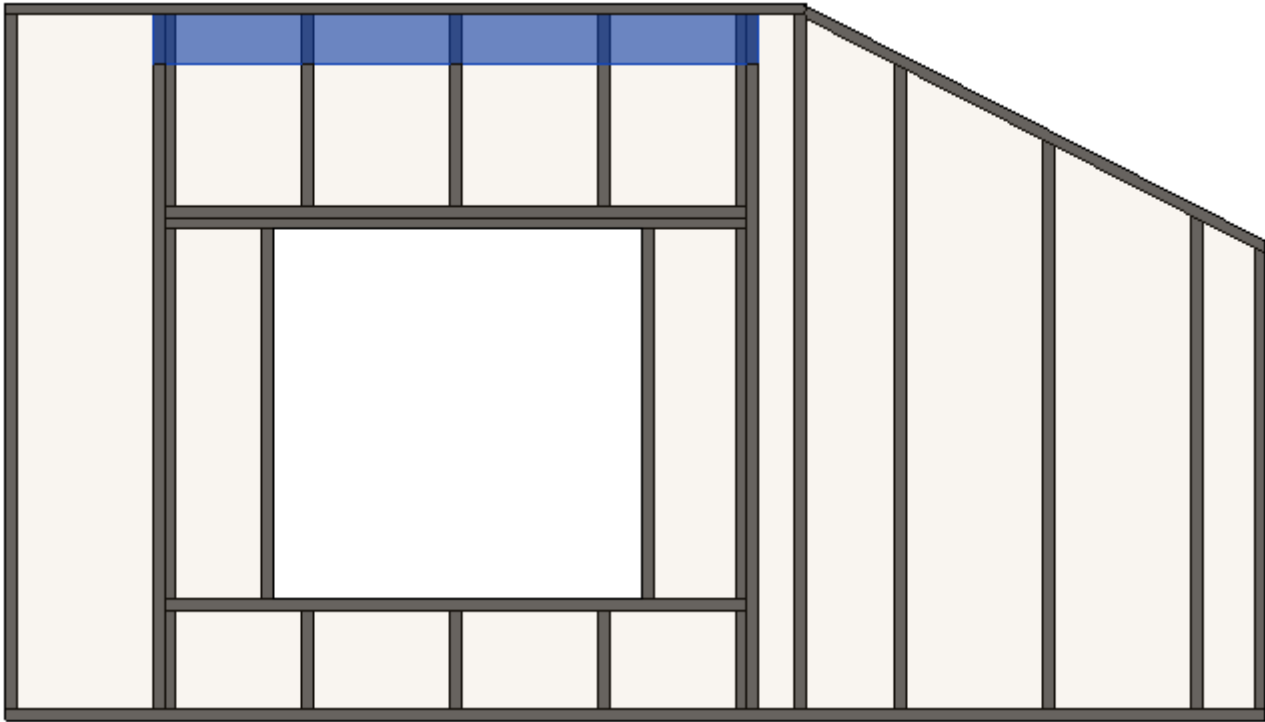
Predefined Layout Name: *Default Configuration* Save to Database Duplicate Delete

New Item Remove Item Move Up Move Down

	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Spacing	Pc
1	Standard	1	M_RWF Rim-Bridging Joist : LMBR 48x30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm	C
2	Standard	1	M_RWF Rim-Bridging Joist : LMBR 48x30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 mm	In

Symbolic Preview

Custom Top Support – place where user can control opening top support.



Trimmer

Trimming Joist	Custom Header 2	Custom Top Support	Custom Header 1	
Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets

Trimmer Left & Right

Trimmers are symmetrical

Extend Sill&Header

Extend Header

Insert Support Stud/Joist if extended

Extend Trimmer if it connects to Top Support and Trimming Joist is missing

Custom Join

Configuration

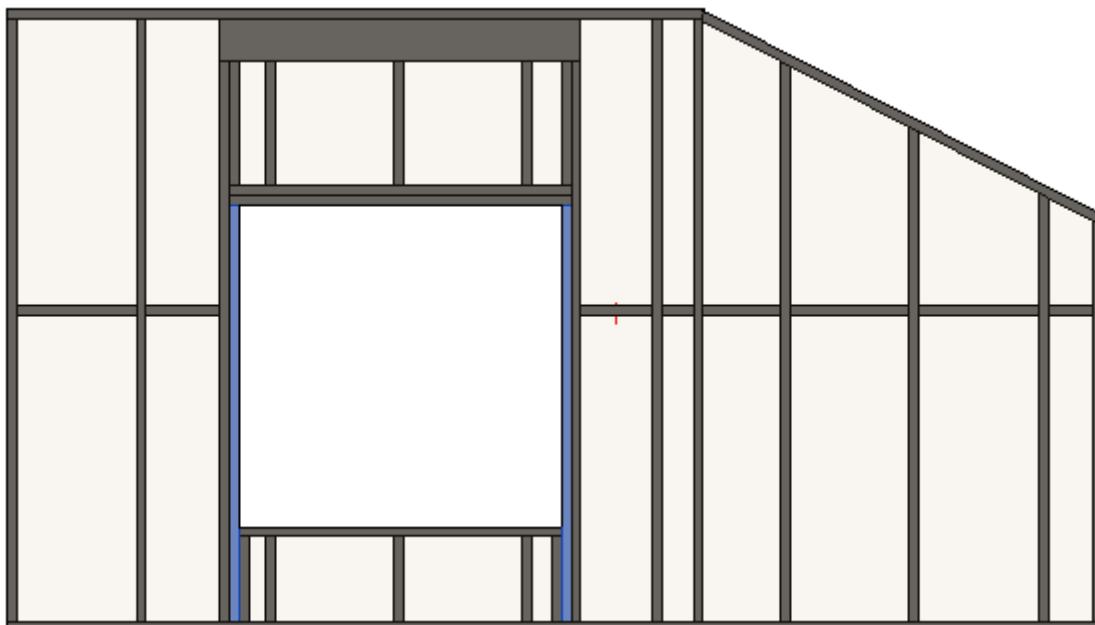
Predefined Layout Name: *Default Configuration*

Select Layout from Database Configuration:

	X-Position	Count	Trimmer Type	Type	Define Depth...	Rotate 90°	Rotate 180°	Flip Facing
1	Standard	1	Sill to Header	M_MF Stud-Joist : C20376-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Symbolic Preview

Trimmer – place where user can control opening trimmers.



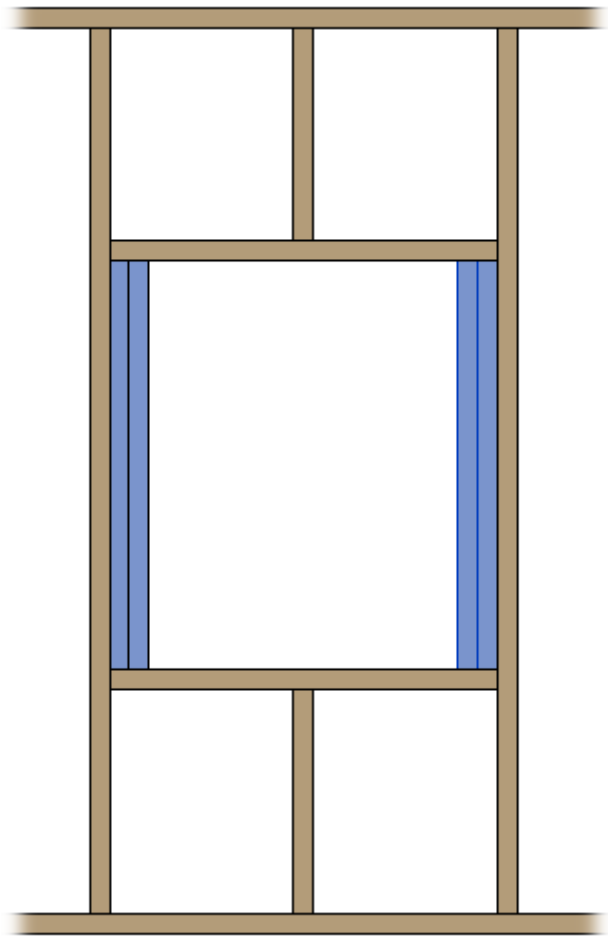
Trimming Joist	Custom Header 2	Custom Top Support	Custom Header 1	
Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets

Trimmer Left & Right

Trimmers are symmetrical	<input checked="" type="checkbox"/>
Extend Sill&Header	<input type="checkbox"/>
Extend Header	<input type="checkbox"/>
Insert Support Stud/Joist if extended	<input type="checkbox"/>

Extend Trimmer if it connects to Top Support and Trimming Joist is missing

Trimmers are symmetrical – switch this *OFF* if trimmers should be different on the left and right sides.



Trimming Joist	Custom Header 2	Custom Top Support	Custom Header 1	
Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets

Trimmer Left & Right

Trimmers are symmetrical

Extend Sill&Header

Extend Header

Insert Support Stud/Joist if extended

Extend Trimmer if it connects to Top Support and Trimming Joist is missing

Custom Join

Configuration

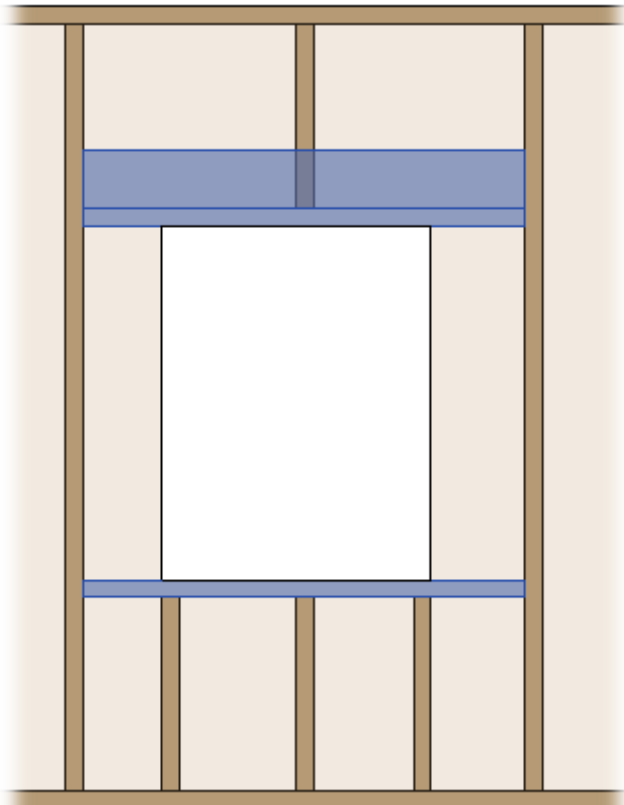
Predefined Layout Name: *Default Configuration*

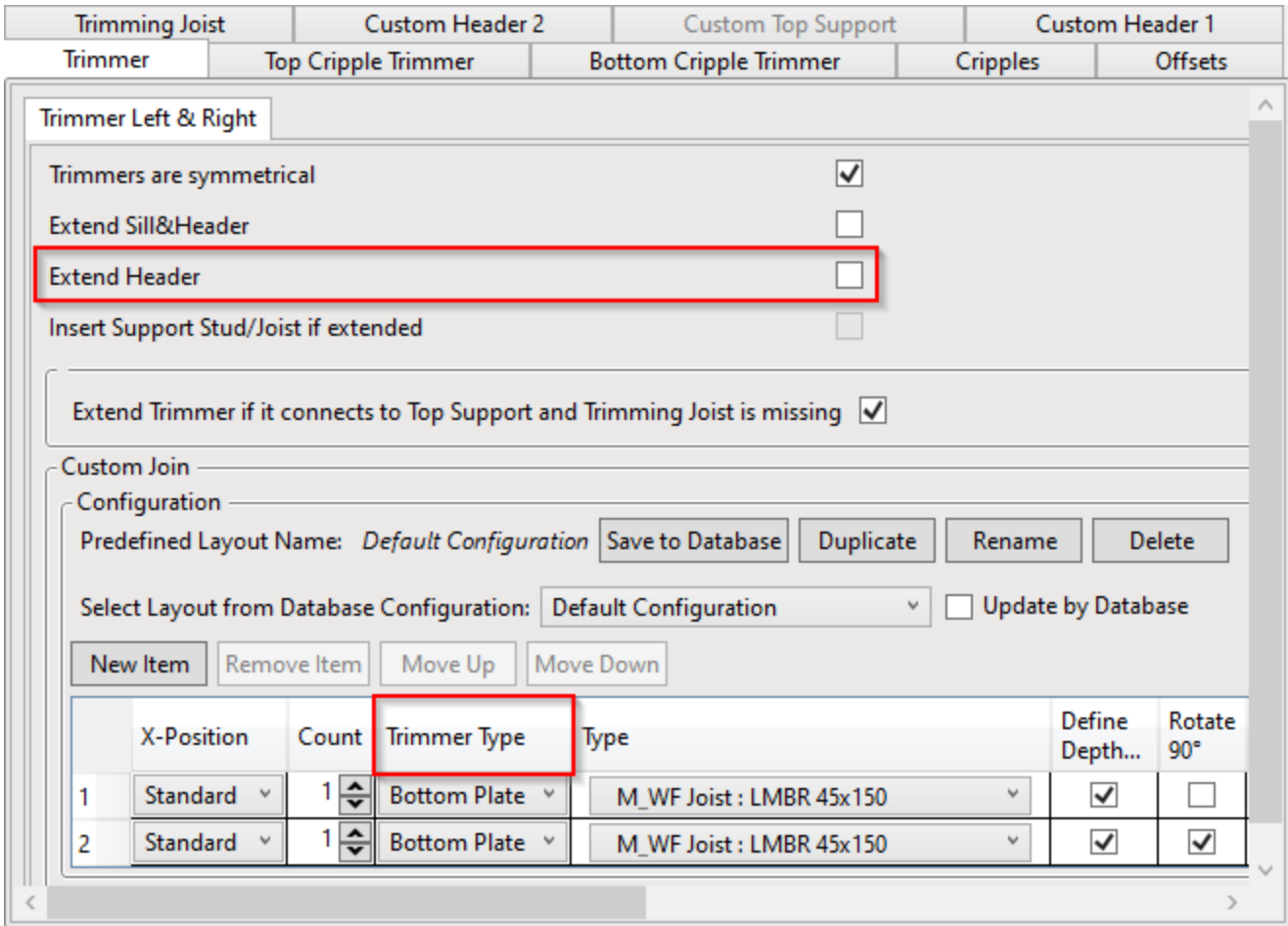
Select Layout from Database Configuration: *Default Configuration* Update by Database

	X-Position	Count	Trimmer Type	Type	Define Depth...	Rotate 90°
1	Standard	1	Bottom Plate	M_WF Joist : LMBR 45x150	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Standard	1	Bottom Plate	M_WF Joist : LMBR 45x150	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Extend Sill&Header – extends Sill and Header if **Bottom Plate to Sill, Header to Top Plate, Sill to Header** is selected near **Trimmer Type**. Also check if **Trimming Joist** is inserted.

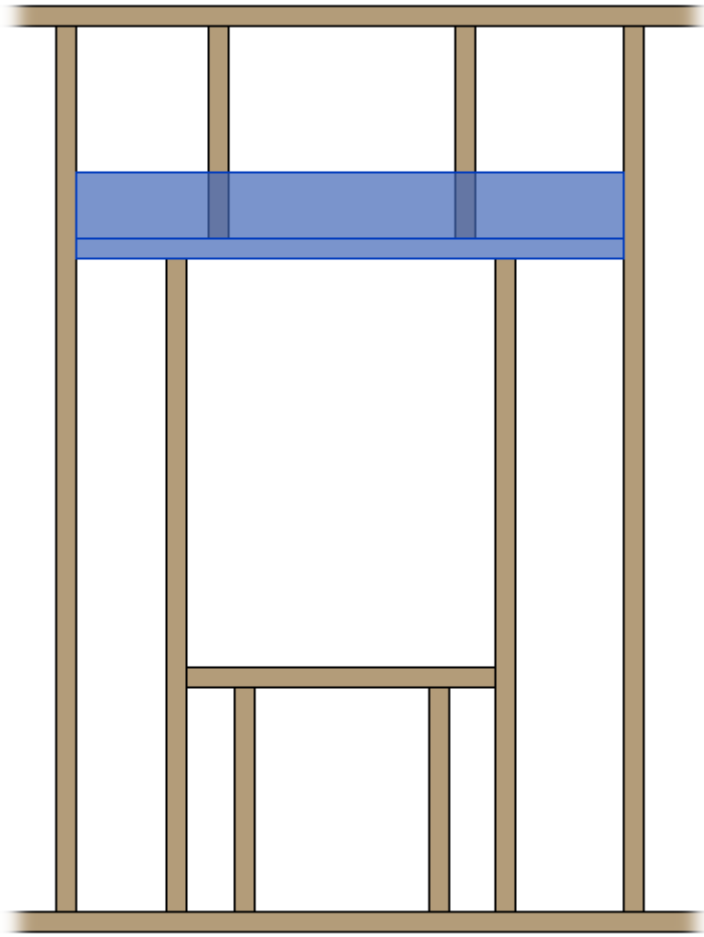
Result:

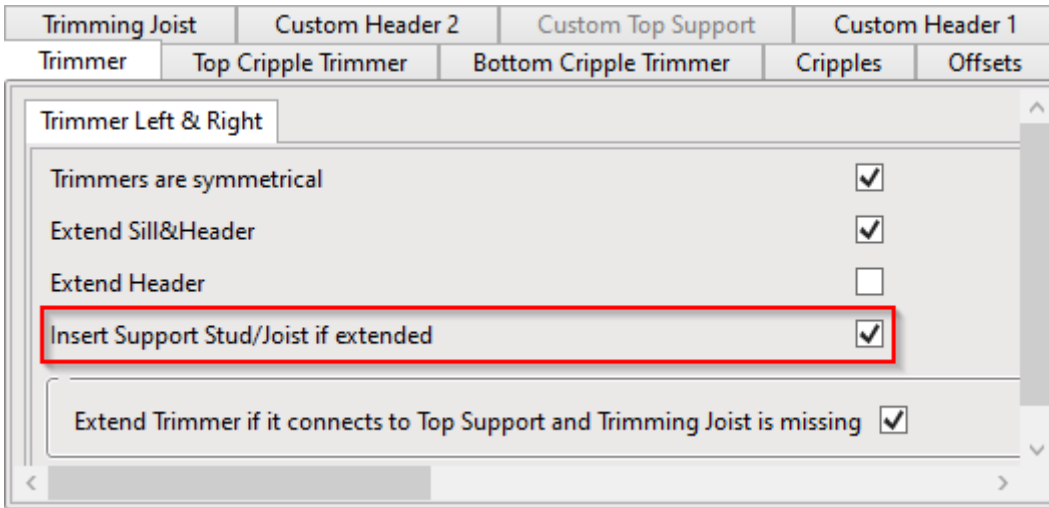




Extend Header – extends the Header if **Bottom Plate to Header, Bottom Plate to Sill, Header to Top Plate, Sill to Header, Split Sill to Header** is selected near **Trimmer Type**. Also check if **Trimming Joist** is inserted.

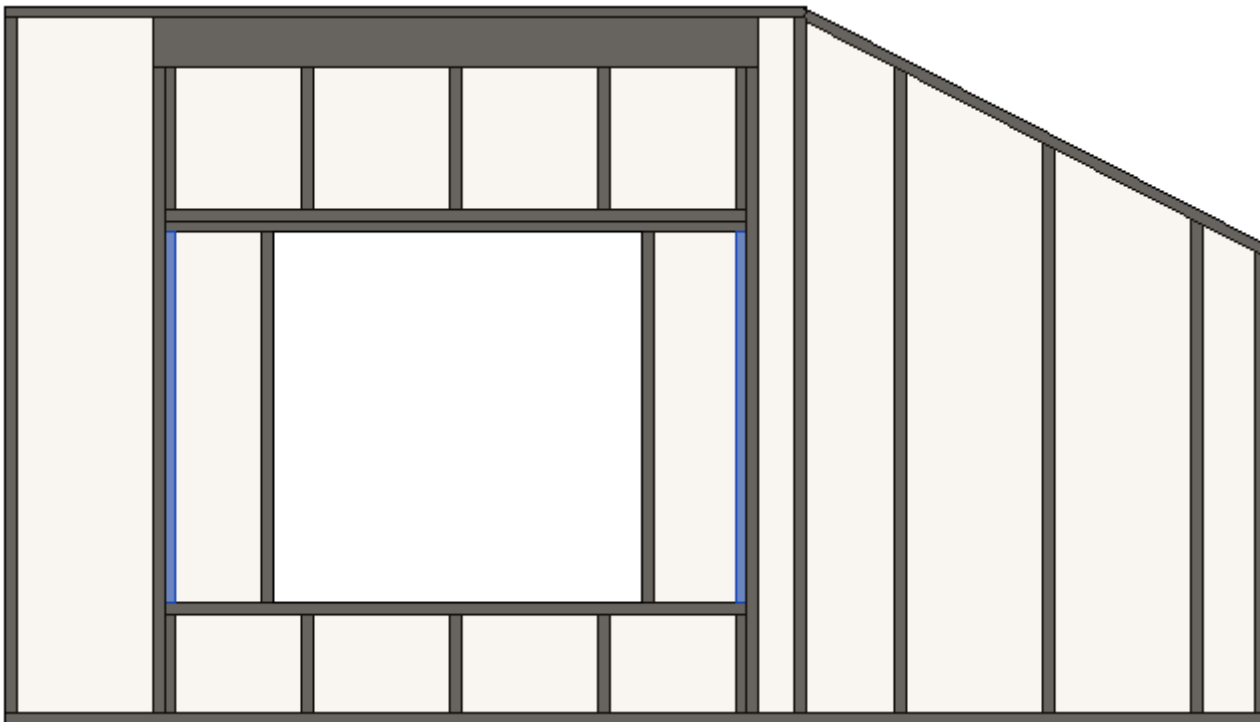
Result:

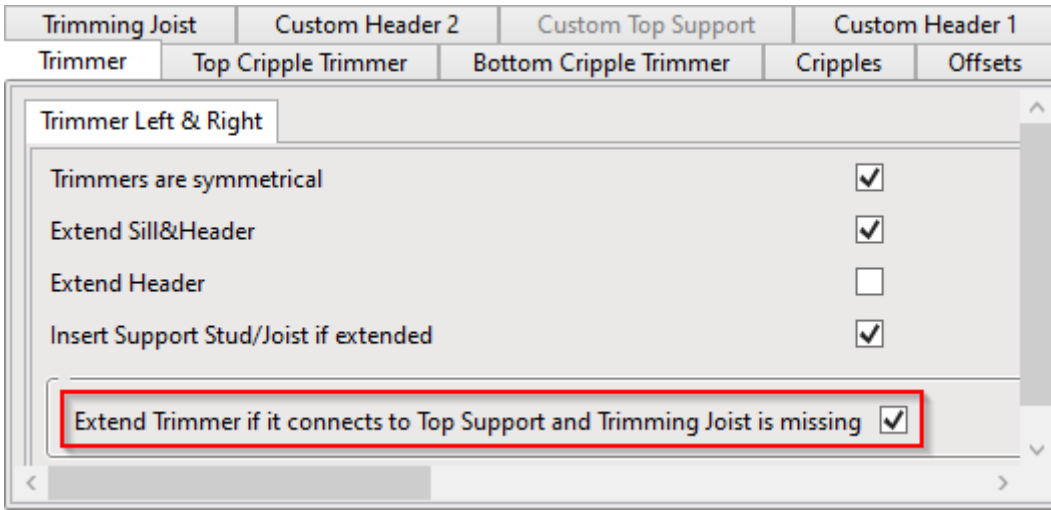




Insert Support Stud/Joist if extended – inserts support stud/joist to the opening if **Extend Sill&Header** is switched on.

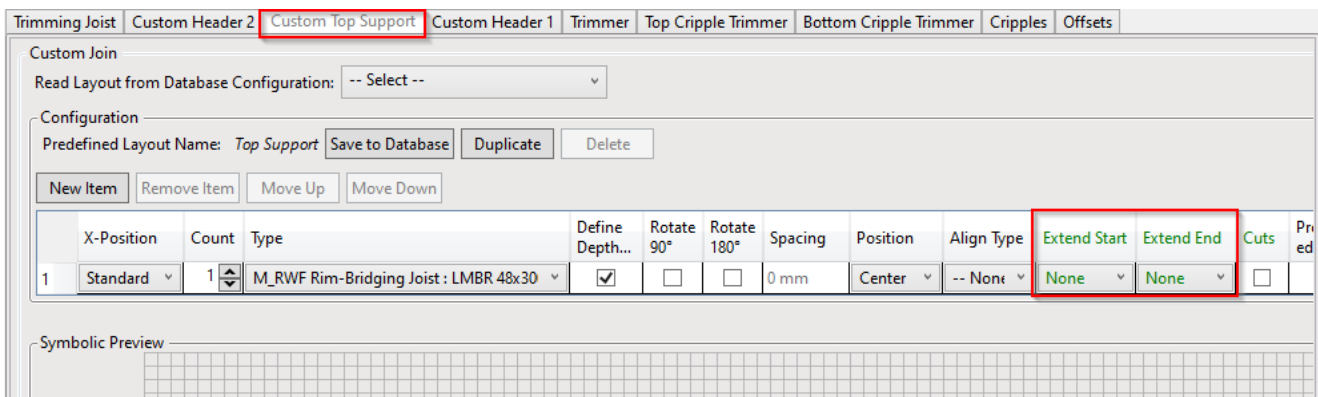
Result:



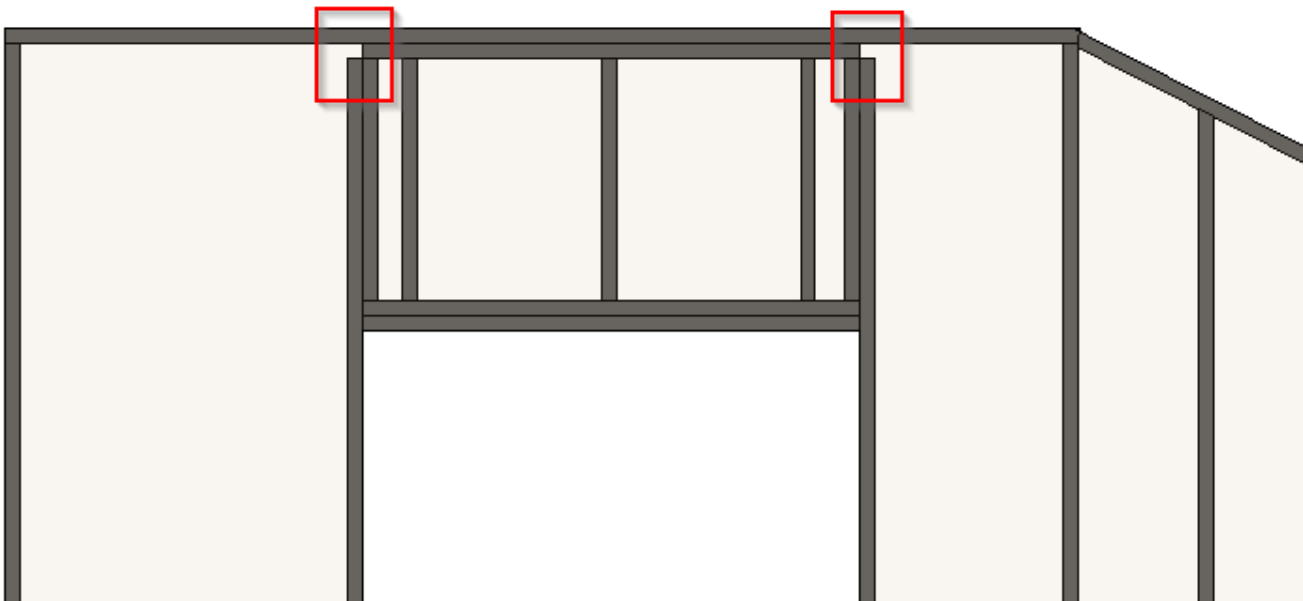


Extend Trimmer if it connects to Top Support and Trimming Joist is missing – extends trimmer ends if there is no King/Trimming Joists and **Trimmer Type = Bottom Plate to Top Plate Support**.

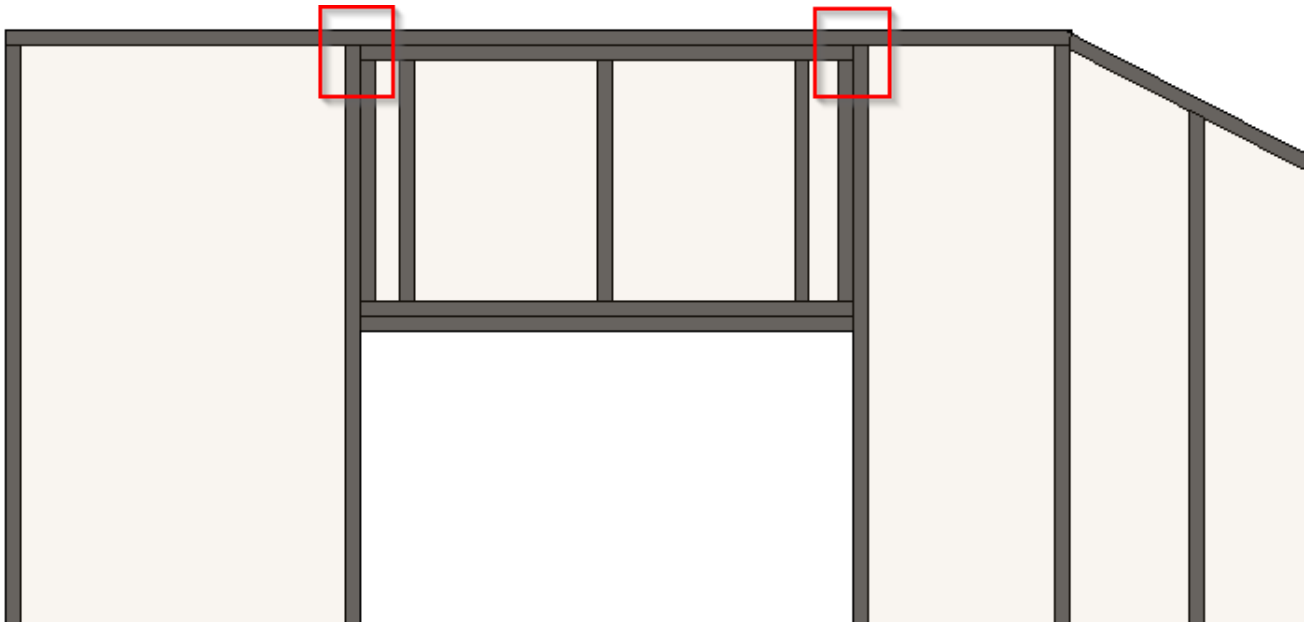
Also top support needs to be without extended ends:



Result when is switched OFF:



Result when is switched ON:



Trimming Joist	Custom Header 2	Custom Top Support	Custom Header 1
Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples
			Offsets

Trimmer Left & Right

Trimmers are symmetrical

Extend Sill&Header

Extend Header

Insert Support Stud/Joist if extended

Extend Trimmer if it connects to Top Support and Trimming Joist is missing

Custom Join

Configuration


Predefined Layout Name: *Default Configuration*

Select Layout from Database Configuration: Update by Database

	X-Position	Count	Trimmer Type	Type	Define Depth...	Rotate 90°	Flip Facing	Spa
1	Standard	1	Sill to Header	M_WF Joist : LMBR 45x150	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 m

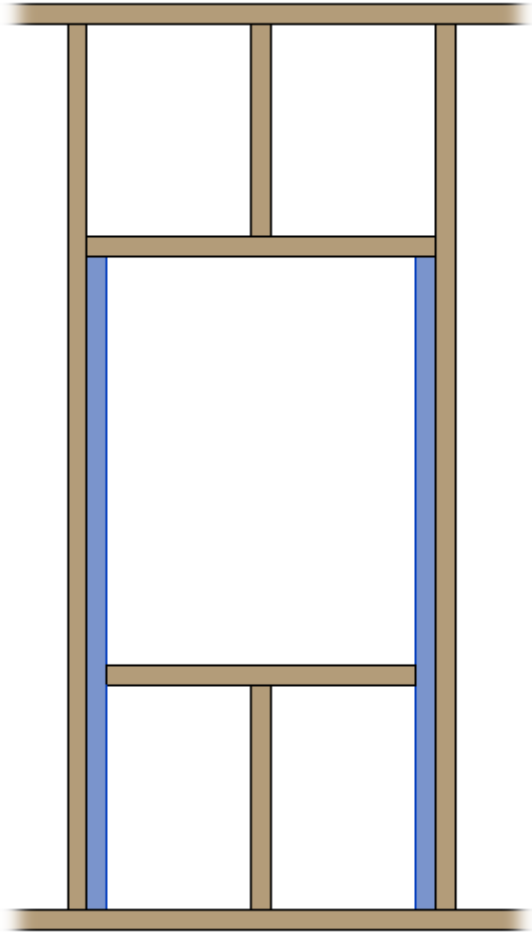
Symbolic Preview

Bottom Plate to Header
Bottom Plate to Top Plate
Bottom Plate to Top Plate Support
Sill to Header
Sill to Top Plate

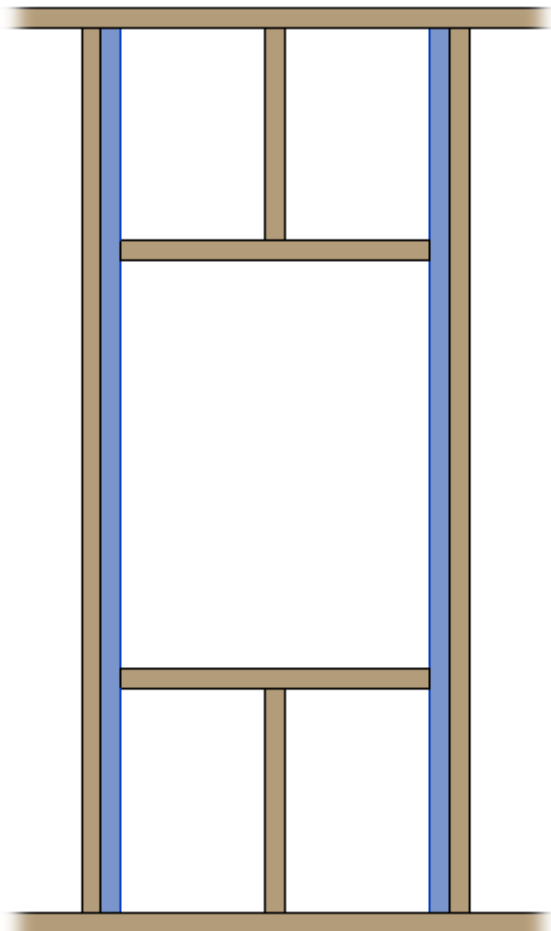


Trimmer Type – defines how the trimmer is positioned relative to opening Sill, Header, Top Plate, Bottom Plate, Top Plate Support.

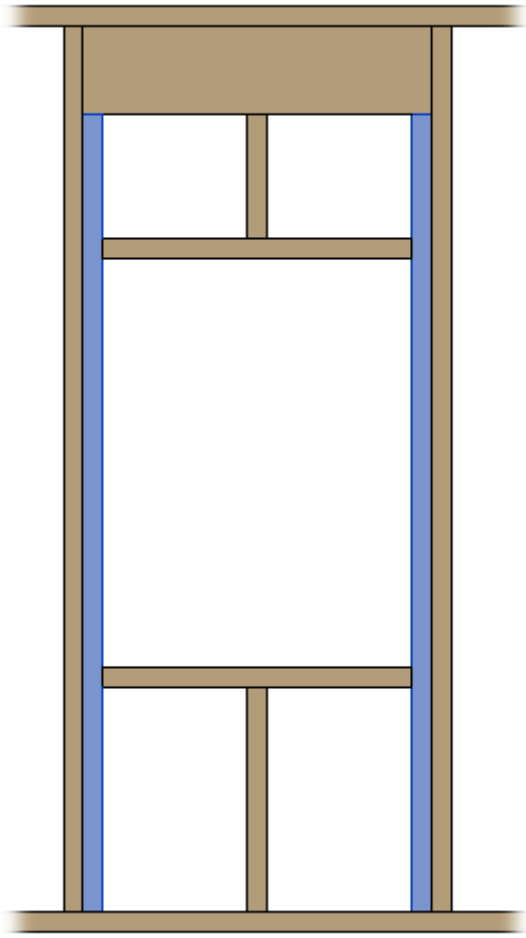
*Example: Trimmer goes from **Bottom Plate to Header**:*



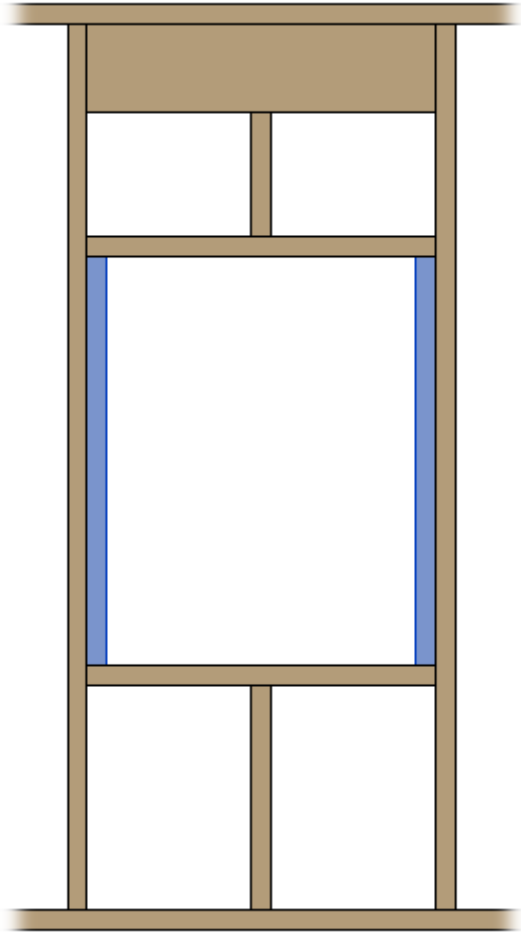
Example: Trimmer goes from **Bottom Plate** to **Top Plate**:



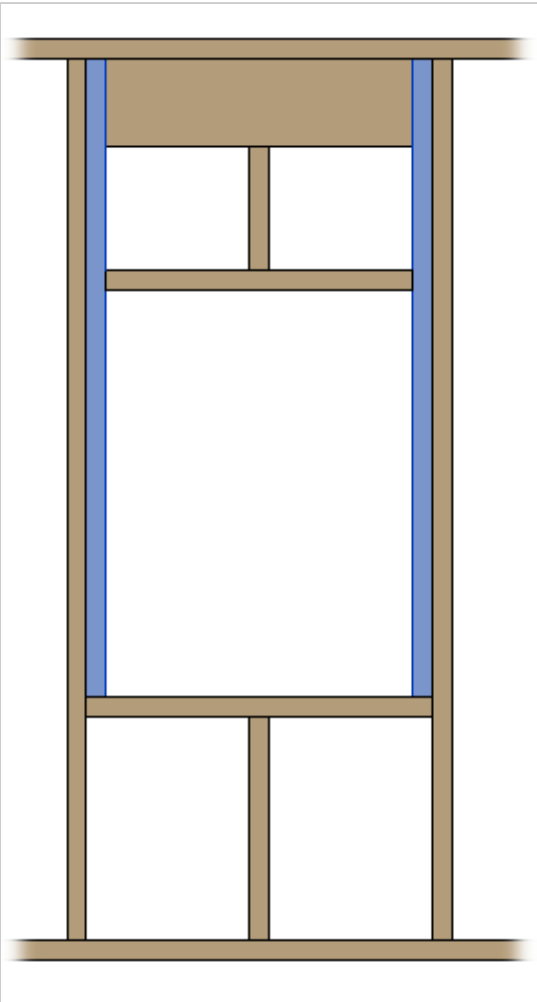
*Example: Trimmer goes from **Bottom Plate** to **Top Plate Support**:*



*Example: Trimmer goes from **Sill** to **Header**:*



Example: Trimmer goes from **Sill** to **Top Plate**:



Example: How to make a double trimmer:

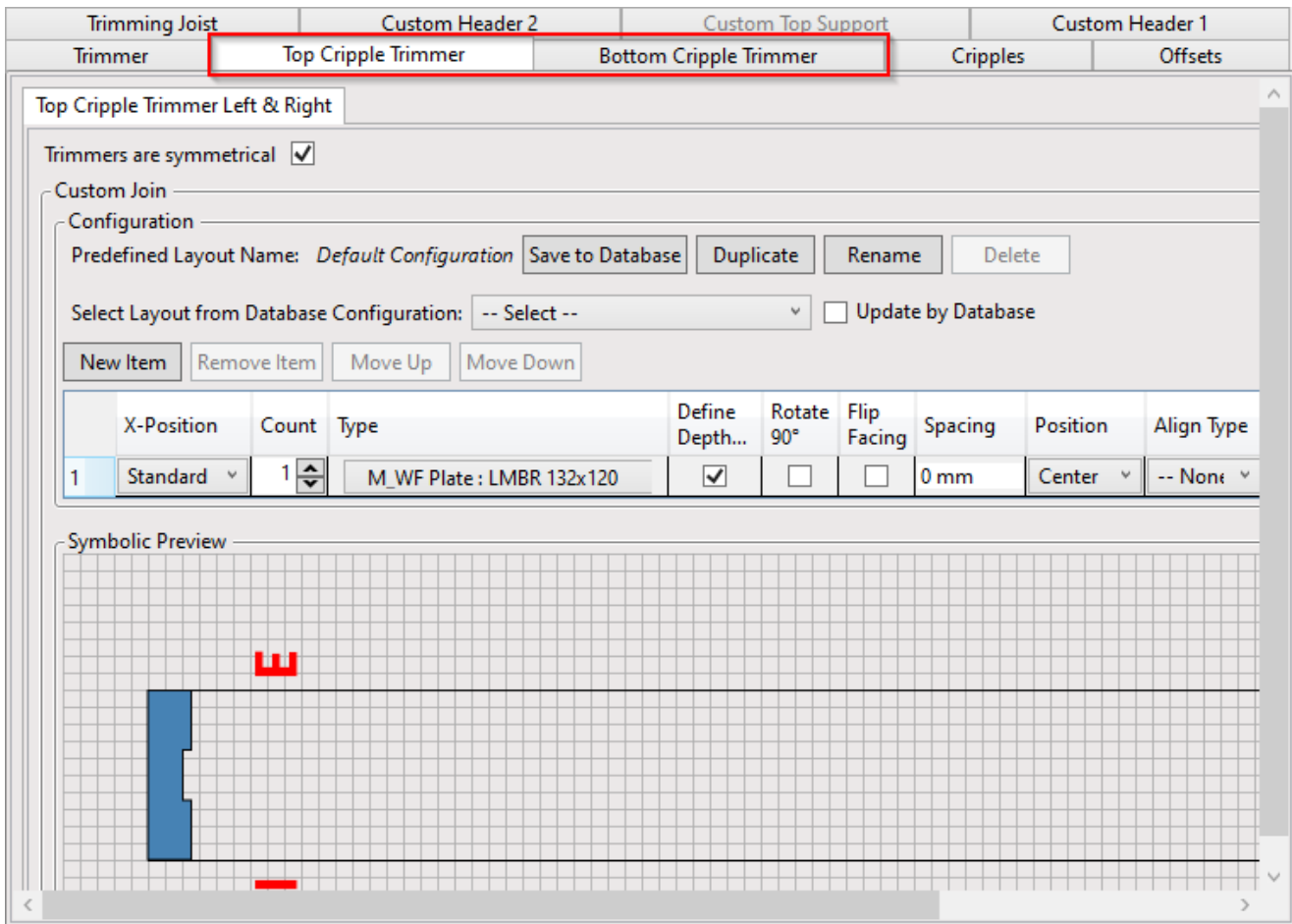


	X-Position	Count	Trimmer Type	Type	Depth by Core	Rotate 90	Rotate 180	Spacing	Position	Align Type
1	Standard	1	Sill to Header	M_WF Stud : LMBR 45x60	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm	External	None
2	Standard	1	Sill to Header	M_WF Stud : LMBR 45x60	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm	Internal	Previous Start

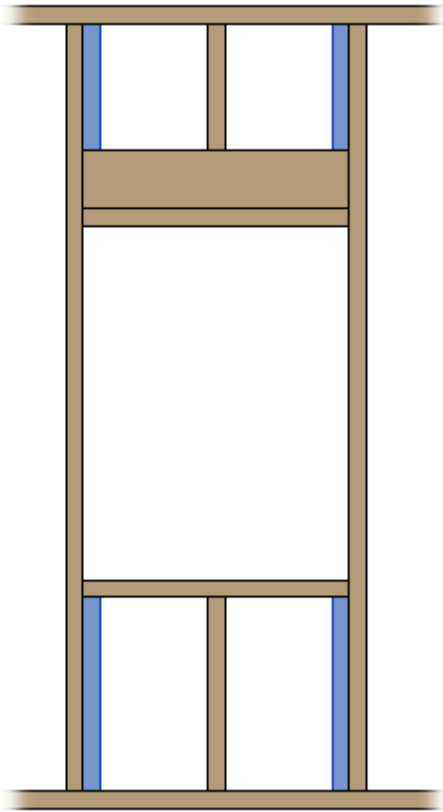
Symbolic Preview



Top/Bottom Cripple Trimmer

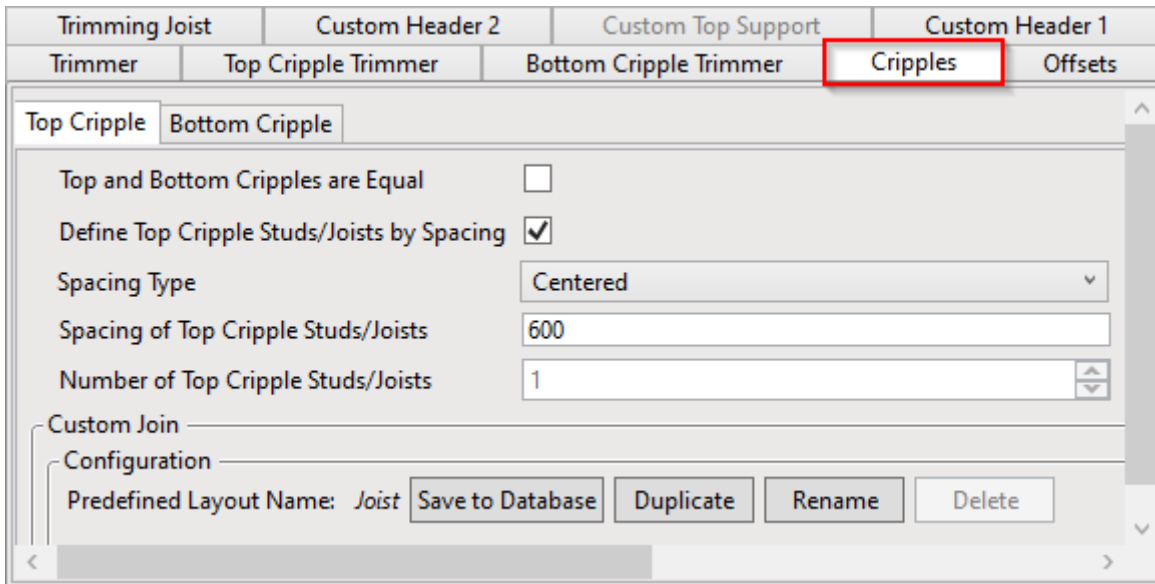


Top/Bottom Cripple Trimmer – place where user can control opening top/bottom cripple trimmers.



Trimmers are symmetrical – switch this *OFF* if trimmers should be different on the left and right sides.

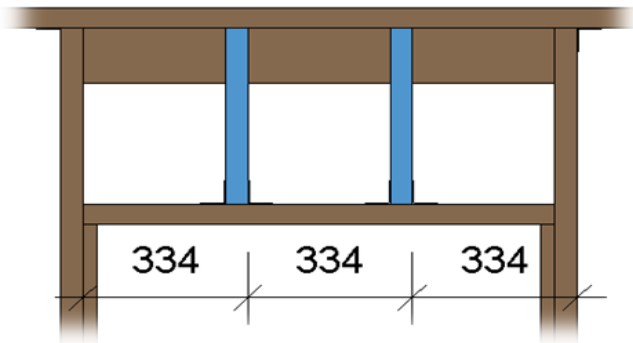
Cripples



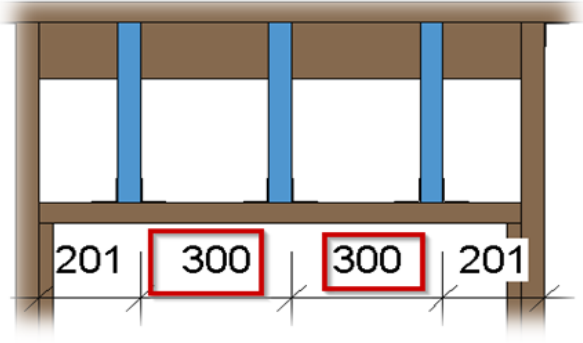
Top and Bottom Cripples are Equal – if ticked OFF, then two tabs appears which allows to control top and bottom cripples separately.

Define Top Cripples Studs/Joists by Spacing – if ticked ON, then you can predefine **Spacing Type** and **Spacing of Top Cripple Studs/Joists**. If unticked, then the software calculates the distance between top cripples automatically. You just need to define a **Number of Top Cripple Studs/Joists**.

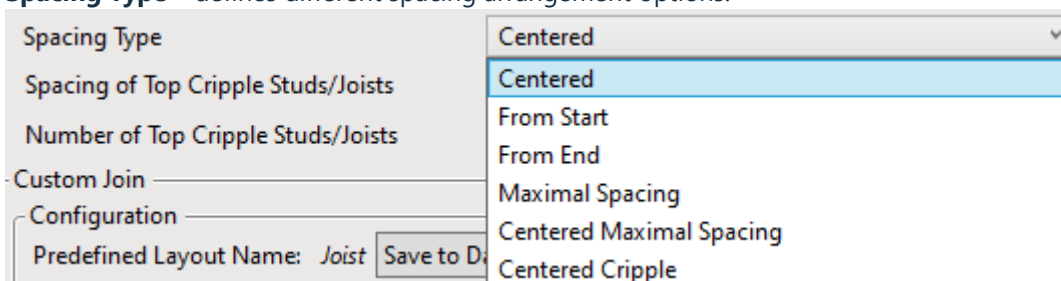
Number of Top Cripple Studs/Joists = 2



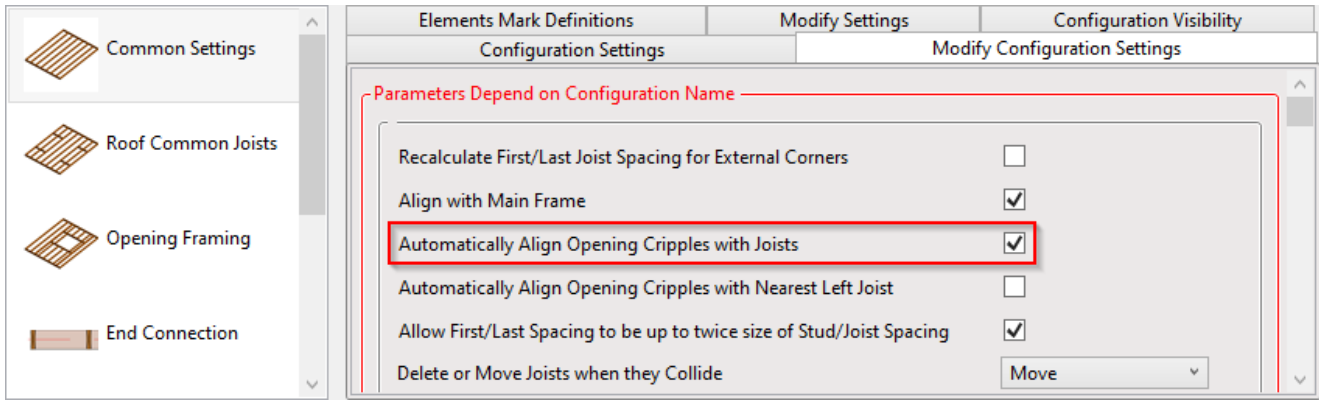
Spacing of Top Cripple Studs/Joists = 300



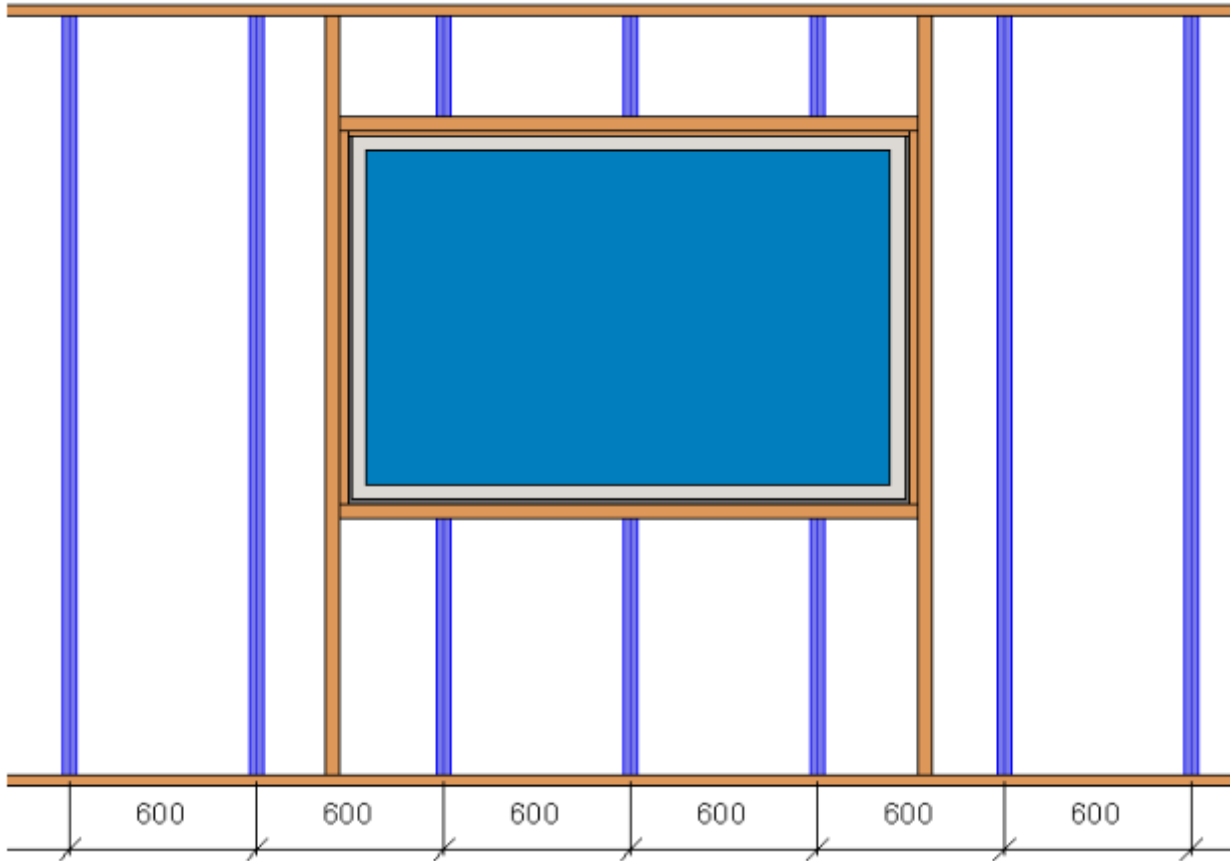
Spacing Type – defines different spacing arrangement options:



*Note: **Define Top Cripples Studs/Joists by Spacing** will work if **Automatically Align Opening Cripples with Joists** is switched OFF near **Common Settings**. If it is ticked ON, then the cripples will be aligned with the main framing joists.*



Automatically Align Opening Cripples with Joists is switched ON:



Offset

Opening Top, Bottom, Left, Right Offset – offsets frame in all preferred directions.

Trimming Joist	Custom Header 2	Custom Top Support	Custom Header 1
Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples
Offsets			
Opening Top Offset	<input type="text" value="6"/>		
Opening Bottom Offset	<input type="text" value="6"/>		
Opening Left Offset	<input type="text" value="6"/>		
Opening Right Offset	<input type="text" value="6"/>		

