

FRAMING CONFIGURATION – Opening Framing – Edit

Modified on: Sun, 10 Jan, 2021 at 5:34 PM

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

Read Layout from Database Configuration: -- Select --

Configuration

Predefined Layout Name: *Default Configuration*

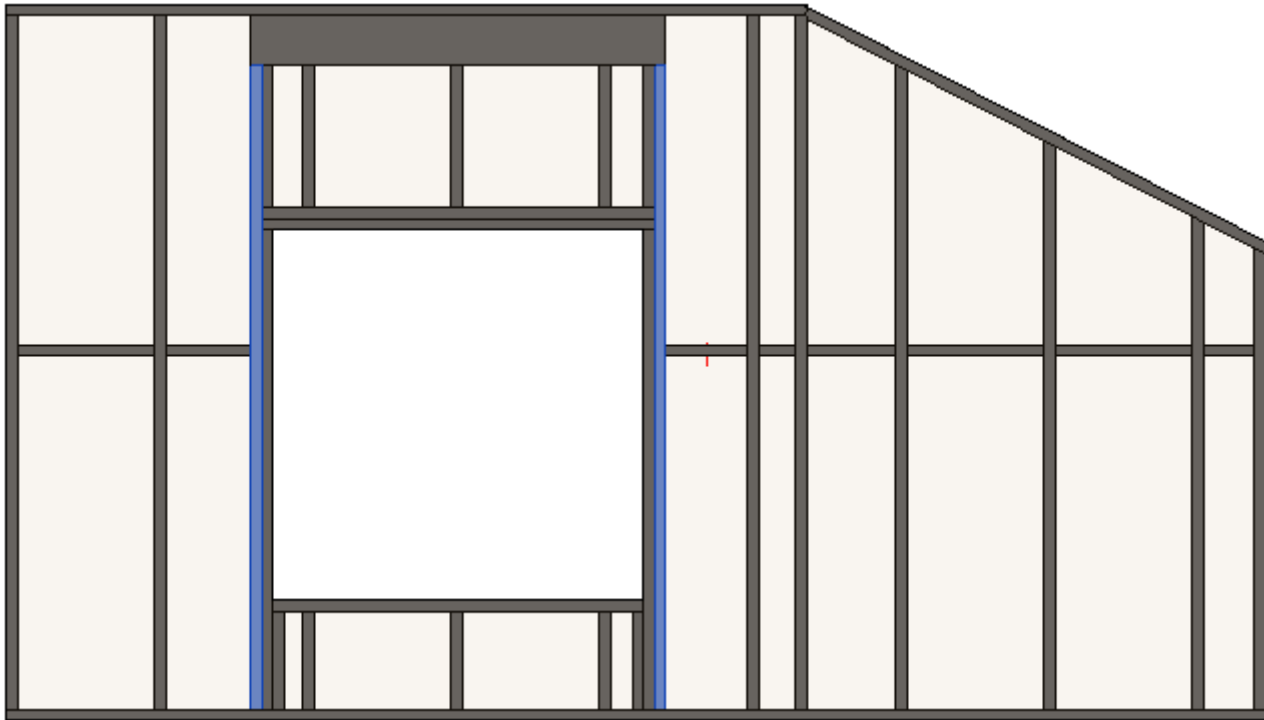
| | X-Position | Count | Type | Define Depth... | Rotate 90° | Rotate 180° | Spacing | Position |
|---|------------|-------|----------------------------------|-------------------------------------|--------------------------|--------------------------|---------|----------|
| 1 | Standard | 1 | M_RWF Common Joist : LMBR 48x300 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 mm | Center |

Symbolic Preview

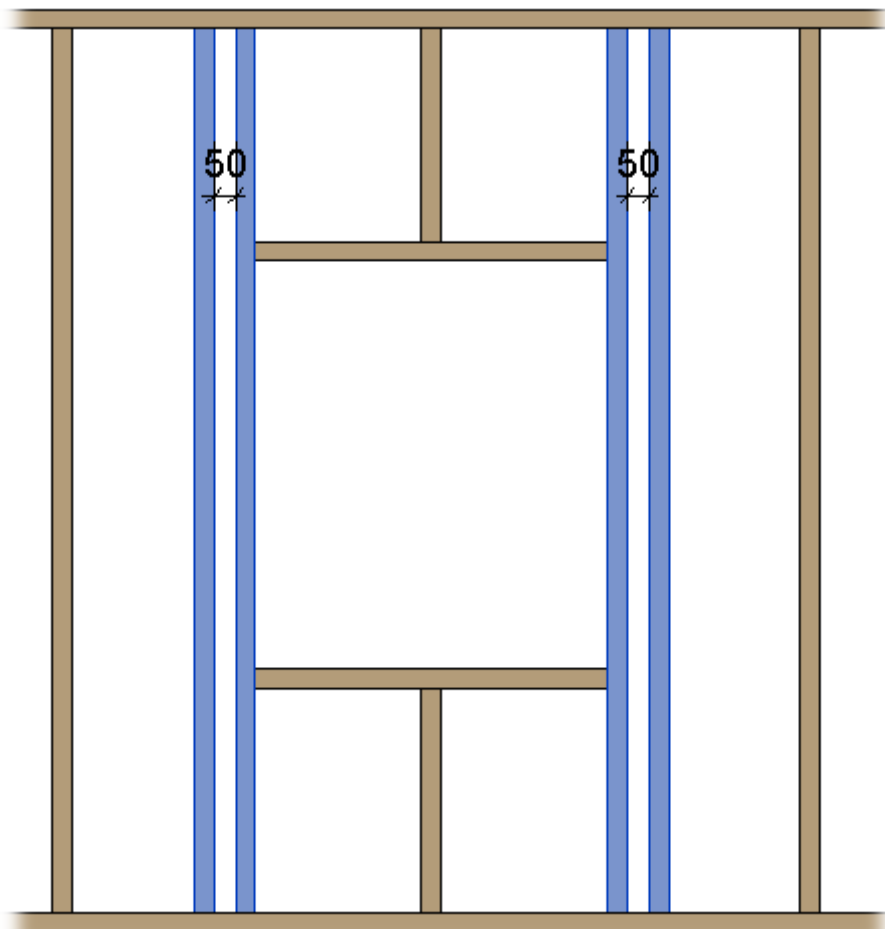
The symbolic preview shows a grid with a brown joist on the right side. There are red markings: a red 'W' shape above the joist and a red horizontal line below it.

Trimming Joist – 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.



Example, two trimming joists are created with predefined distance:



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

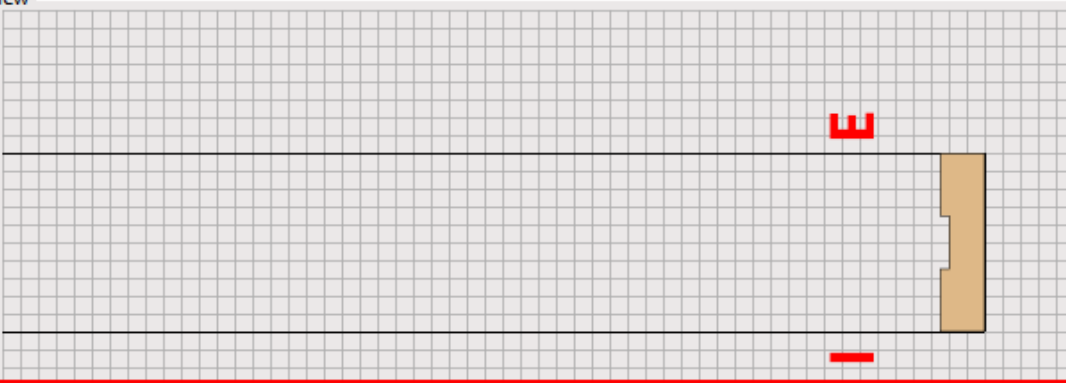
Read Layout from Database Configuration: -- Select --

Configuration

Predefined Layout Name: *Default Configuration*

| | X-Position | Count | Type | Define Depth... | Rotate 90° | Rotate 180° | Spacing | Position |
|---|------------|-------|----------------------------------|-------------------------------------|--------------------------|--------------------------|---------|----------|
| 1 | Standard | 1 | M_RWF Common Joist : LMBR 48x300 | <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

Read Layout from Database Configuration: -- Select --

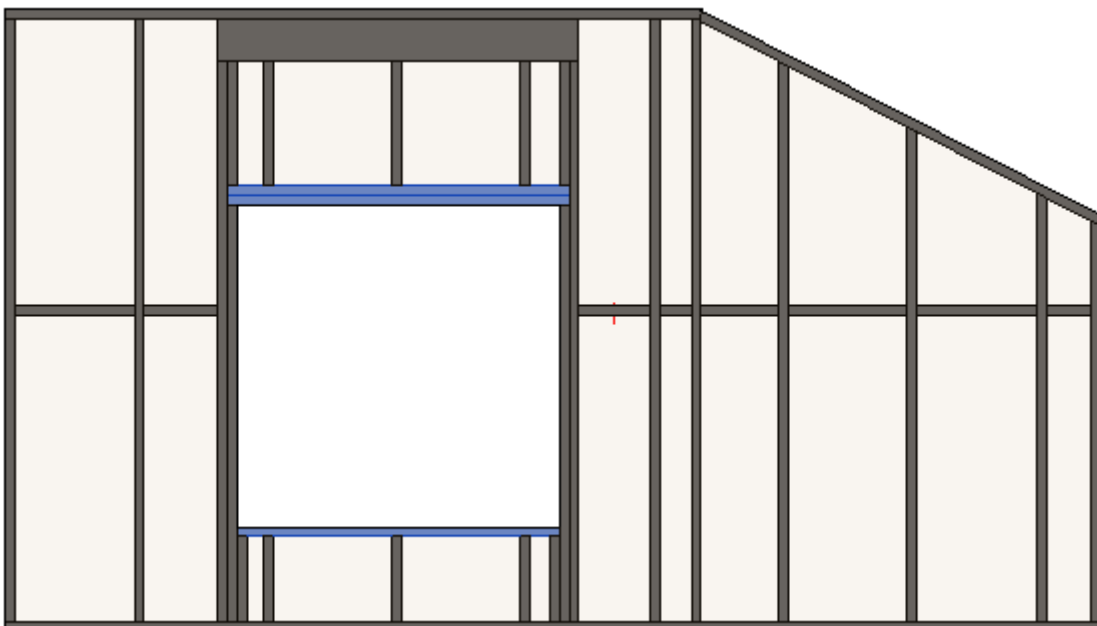
Configuration

Predefined Layout Name: Header Save to Database Duplicate Delete

New Item Remove Item Move Up Move Down

| | X-Position | Count | Type | Define Depth... | Rotate 90° | Rotate 180° | Spa |
|---|------------|-------|---------------------------------------|-------------------------------------|--------------------------|--------------------------|-----|
| 1 | Standard | 1 | M_RWF Rim-Bridging Joist : LMBR 48x30 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 m |

Symbolic Preview



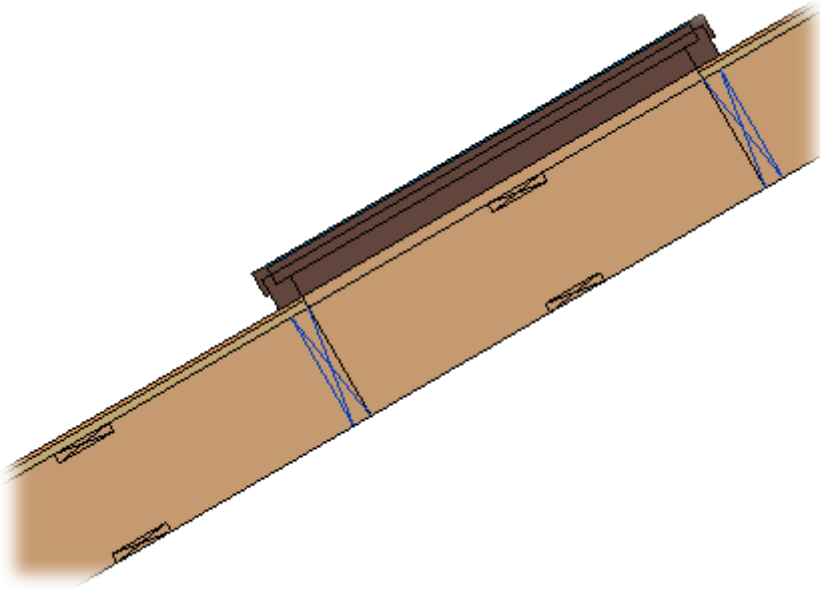
| Trimmer | Top Cripple Trimmer | Bottom Cripple Trimmer | Cripples | Offsets |
|----------------|---------------------|------------------------|-----------------|---------|
| Trimming Joist | Custom Header 2 | Custom Top Support | Custom Header 1 | |

Additional Parameters

Rotate by Slope

Move for Skylight

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



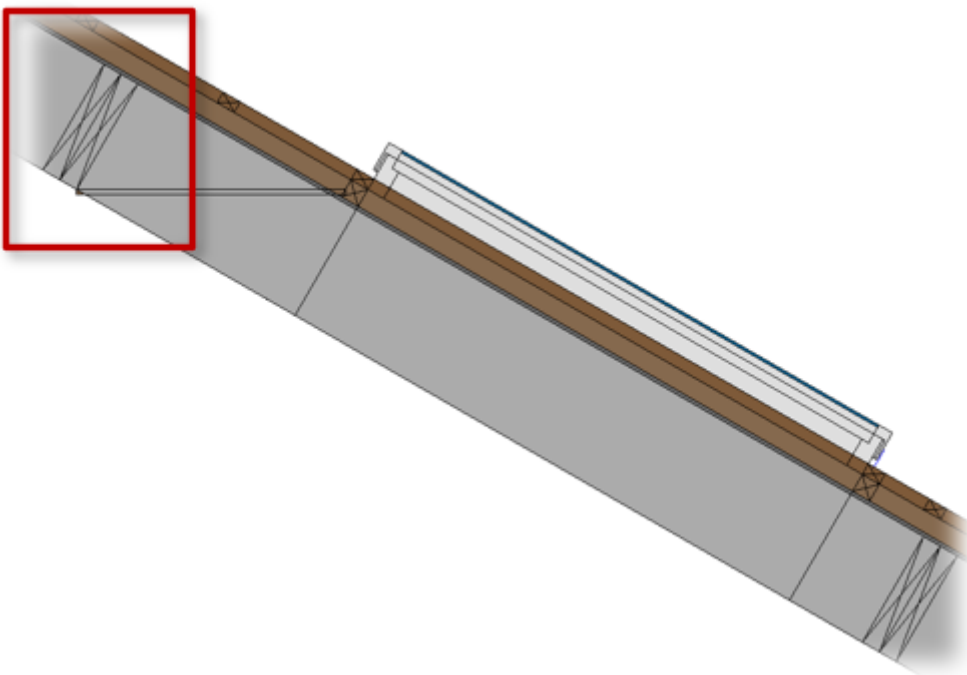
| Trimmer | Top Cripple Trimmer | Bottom Cripple Trimmer | Cripples | Offsets |
|----------------|---------------------|------------------------|-----------------|---------|
| Trimming Joist | Custom Header 2 | Custom Top Support | Custom Header 1 | |

Additional Parameters

Rotate by Slope

Move for Skylight

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

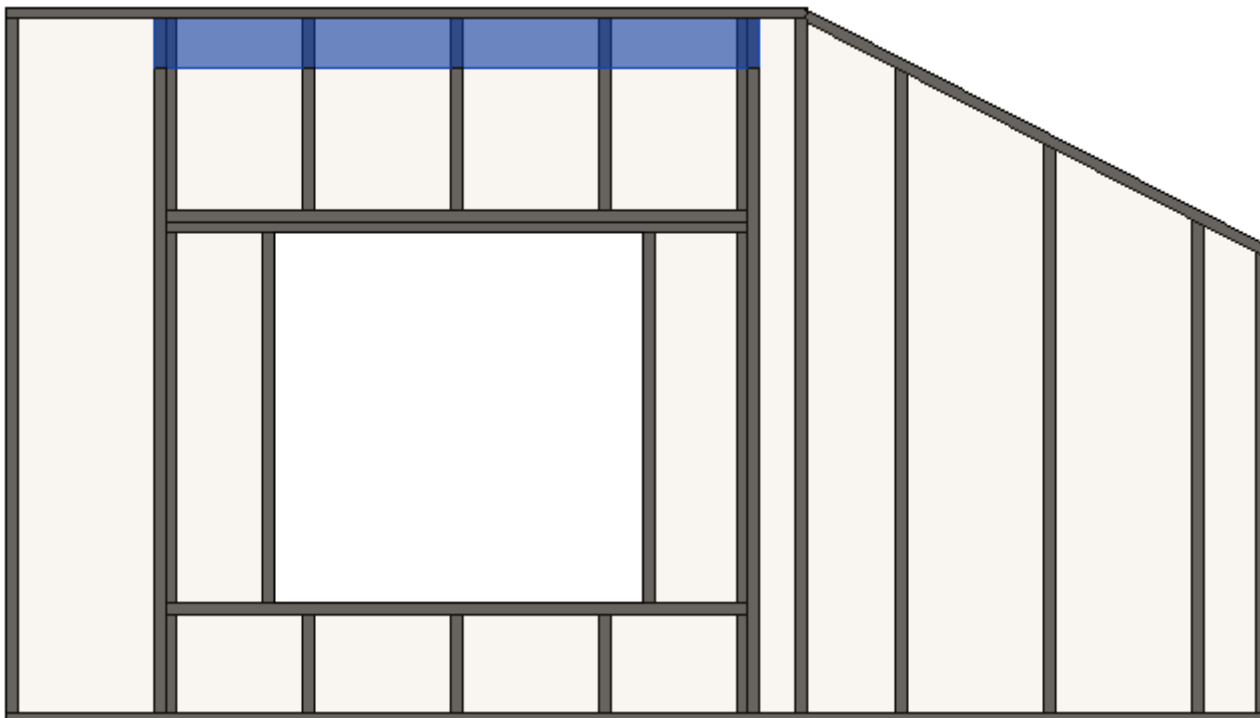
Configuration
 Predefined Layout Name: *Default Configuration* Save to Database Duplicate Delete

New Item Remove Item Move Up Move Down

| | X-Position | Count | Type | Define Depth... | Rotate 90° | Rotate 180° | Spacing | Pe |
|---|------------|-------|---------------------------------------|-------------------------------------|-------------------------------------|--------------------------|---------|----|
| 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

| Top Cripple Trimmer | Bottom Cripple Trimmer | Cripples | Offsets |
|---------------------|------------------------|--------------------|----------------|
| King Stud | Custom Header | Custom Top Support | Custom Sill |
| | | | Trimmer |

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

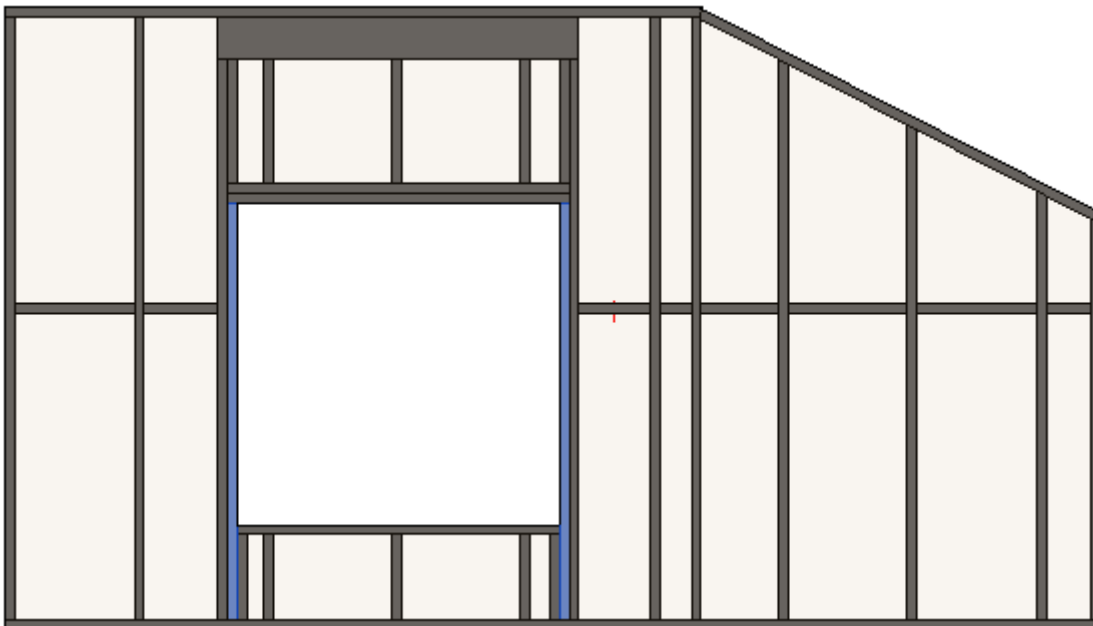
Predefined Layout Name: *Default Configuration*

Select Layout from Database Configuration: -- Select -- Update by Database

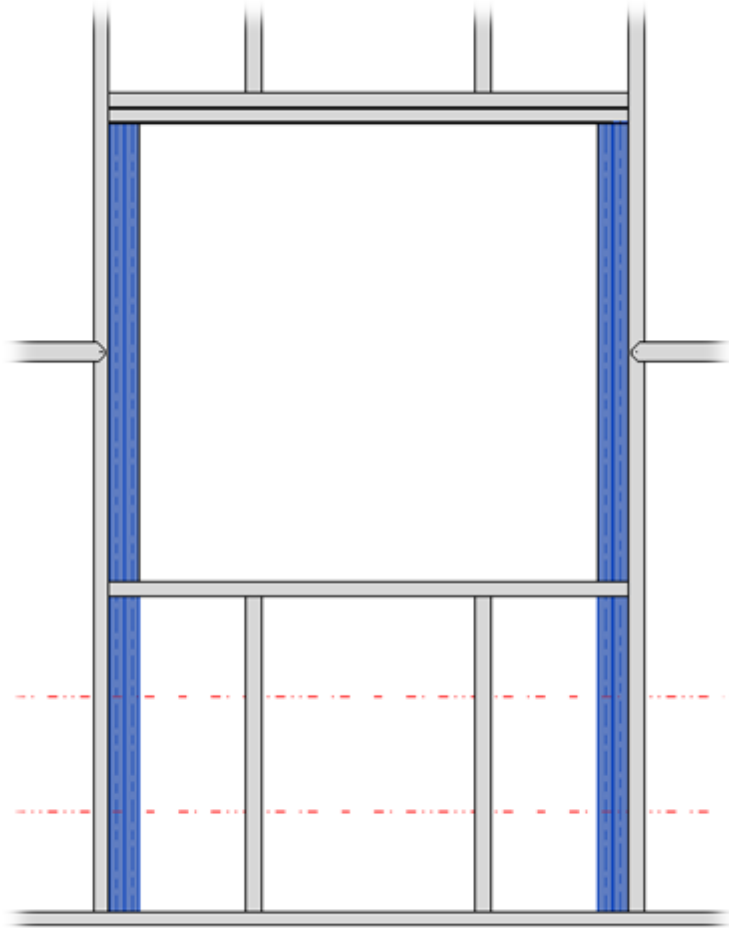
| | X-Position | Count | Trimmer Type | Type | Define Depth... | Rotate 90° |
|---|------------|-------|--------------|-------------------------|-------------------------------------|--------------------------|
| 1 | Standard | 1 | Bottom Plate | M_WF Stud : LMBR 45x120 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Symbolic Preview

Example 1:



Example 2:



| Top Cripple Trimmer | Bottom Cripple Trimmer | Cripples | Offsets | |
|---------------------|------------------------|--------------------|-------------|---------|
| King Stud | Custom Header | Custom Top Support | Custom Sill | Trimmer |

Trimmer Left & Right

Trimmers are symmetrical

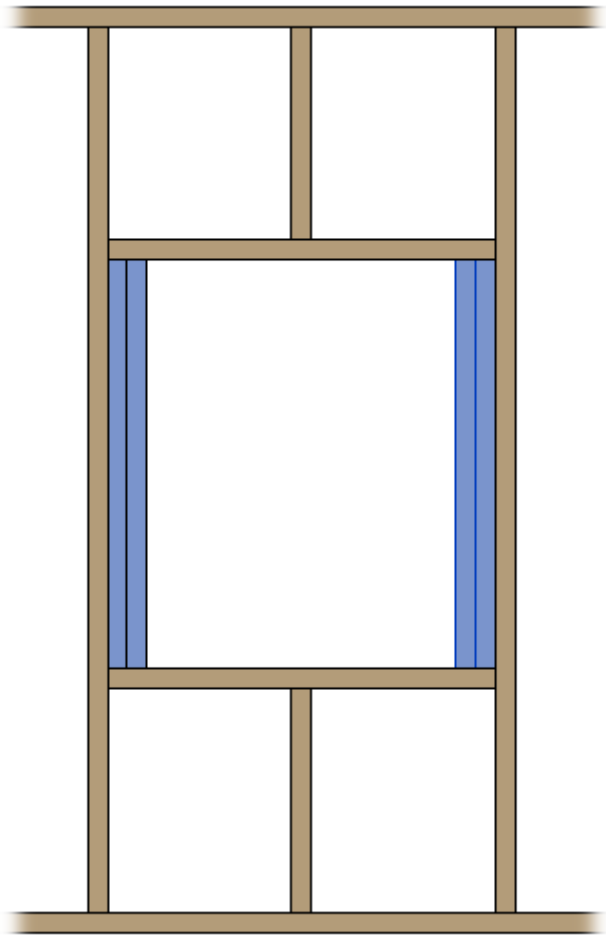
Extend Sill&Header

Extend Header

Insert Support Stud/Joist if extended

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

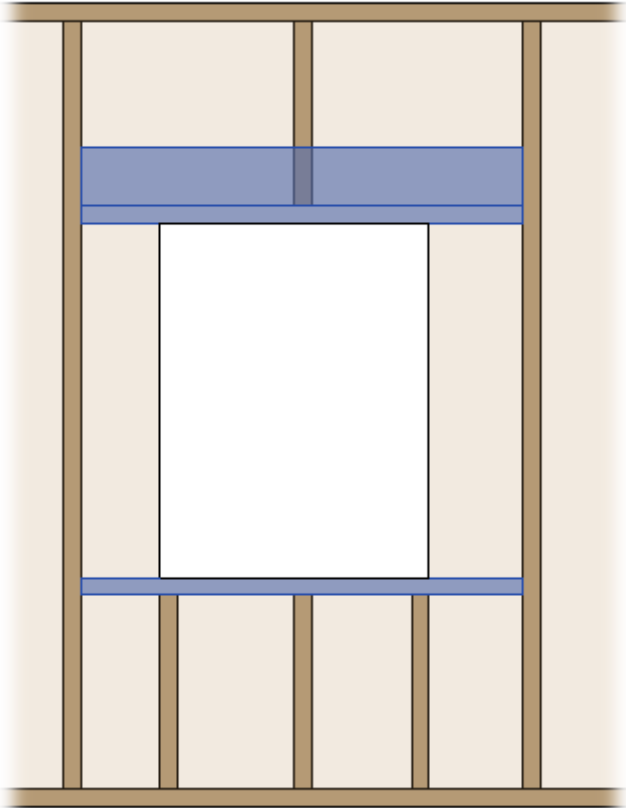
Trimmers are symmetrical – switch this *OFF* if trimmers should be different on the left and right sides.



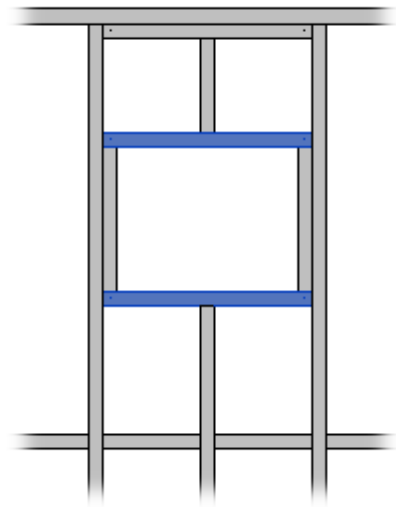
| Top Cripple Trimmer | Bottom Cripple Trimmer | Cripples | Offsets | | |
|---|------------------------|--------------------|---|-------------------------------------|--------------------------|
| King Stud | Custom Header | Custom Top Support | Custom Sill | | |
| Trimmer Left & Right | | | Trimmer | | |
| Trimmers are symmetrical | | | <input checked="" type="checkbox"/> | | |
| Extend Sill&Header | | | <input checked="" 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 | | | <input checked="" type="checkbox"/> | | |
| Custom Join | | | | | |
| Configuration | | | | | |
| Predefined Layout Name: <i>Default Configuration</i> <input type="button" value="Save to Database"/> <input type="button" value="Duplicate"/> <input type="button" value="Rename"/> <input type="button" value="Delete"/> | | | | | |
| Select Layout from Database Configuration: -- Select -- | | | <input type="checkbox"/> Update by Database | | |
| <input type="button" value="New Item"/> <input type="button" value="Remove Item"/> <input type="button" value="Move Up"/> <input type="button" value="Move Down"/> | | | | | |
| X-Position | Count | Trimmer Type | Type | Define Depth... | Rotate 90° |
| 1 | 1 | Sill to Header | M_WF Stud : LMBR 45x120 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Symbolic Preview | | | | | |

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.

Example with wood:



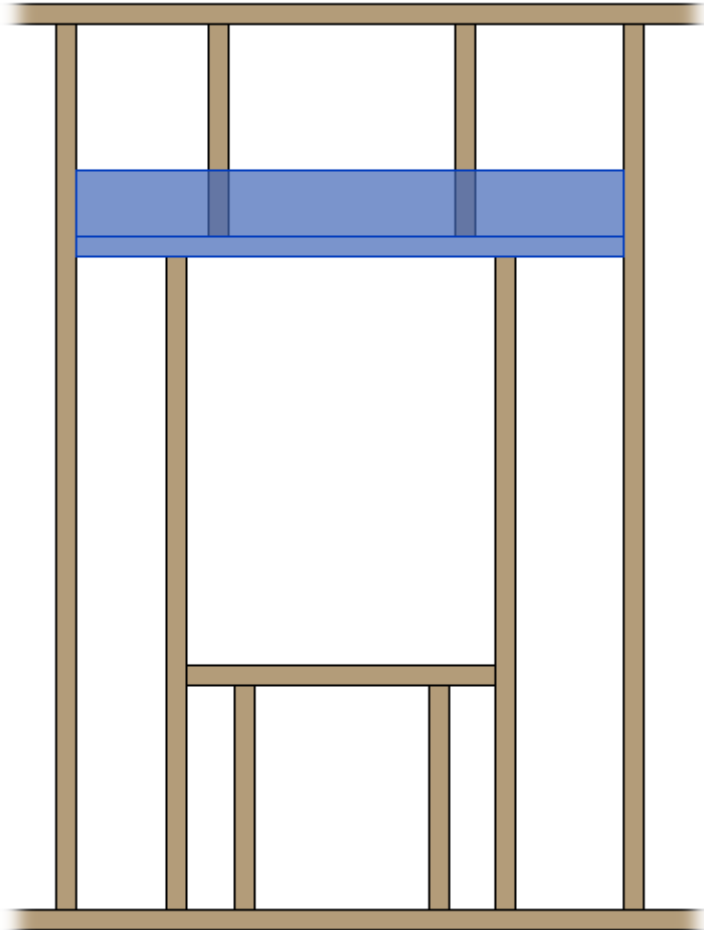
Example with metal:



| Top Cripple Trimmer | Bottom Cripple Trimmer | Cripples | Offsets | | |
|---|--|--|---|-------------------------------------|--------------------------|
| King Stud | Custom Header | Custom Top Support | Custom Sill | | |
| | | | Trimmer | | |
| Trimmer Left & Right | | | | | |
| Trimmers are symmetrical | | | <input checked="" type="checkbox"/> | | |
| Extend Sill&Header | | | <input type="checkbox"/> | | |
| Extend Header | | | <input checked="" type="checkbox"/> | | |
| Insert Support Stud/Joist if extended | | | <input type="checkbox"/> | | |
| Extend Trimmer if it connects to Top Support and Trimming Joist is missing | | | <input checked="" type="checkbox"/> | | |
| Custom Join | | | | | |
| Configuration | | | | | |
| Predefined Layout Name: <i>Default Configuration</i> <input type="button" value="Save to Database"/> <input type="button" value="Duplicate"/> <input type="button" value="Rename"/> <input type="button" value="Delete"/> | | | | | |
| Select Layout from Database Configuration: -- Select -- | | | <input type="checkbox"/> Update by Database | | |
| <input type="button" value="New Item"/> | <input type="button" value="Remove Item"/> | <input type="button" value="Move Up"/> | <input type="button" value="Move Down"/> | | |
| X-Position | Count | Trimmer Type | Type | Define Depth... | Rotate 90° |
| 1 | 1 | Sill to Header | M_WF Stud : LMBR 45x120 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Symbolic Preview | | | | | |

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:

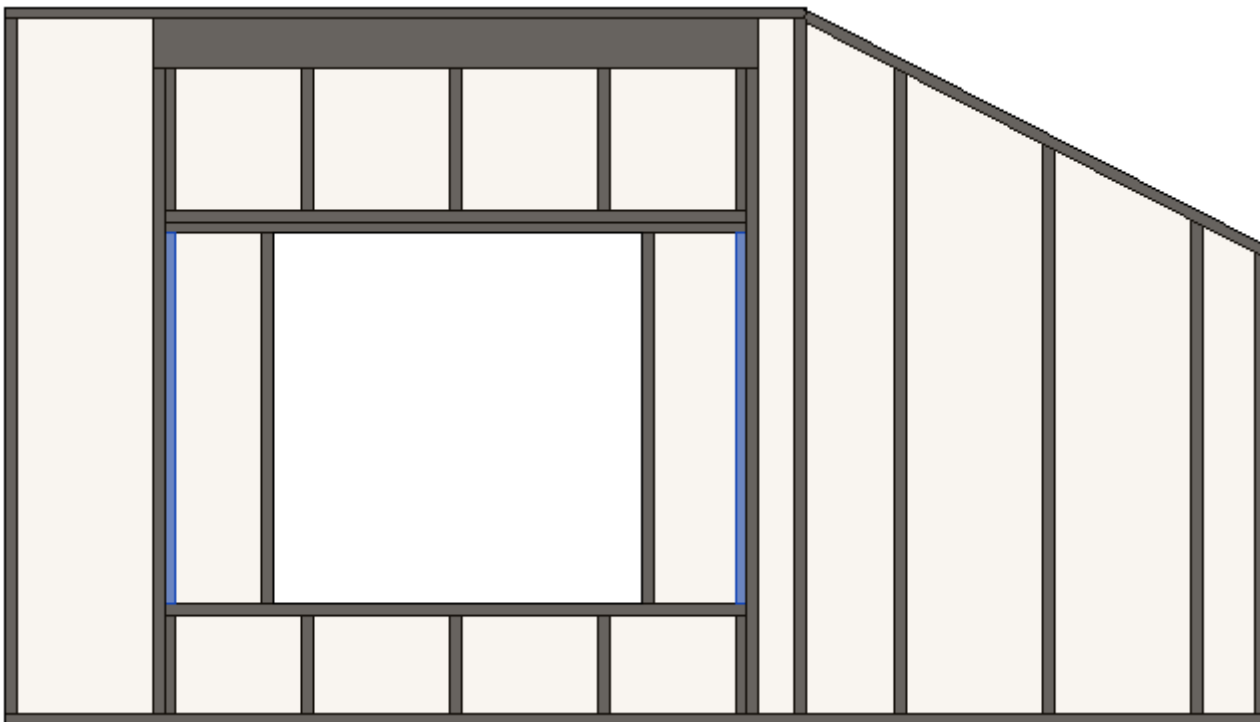


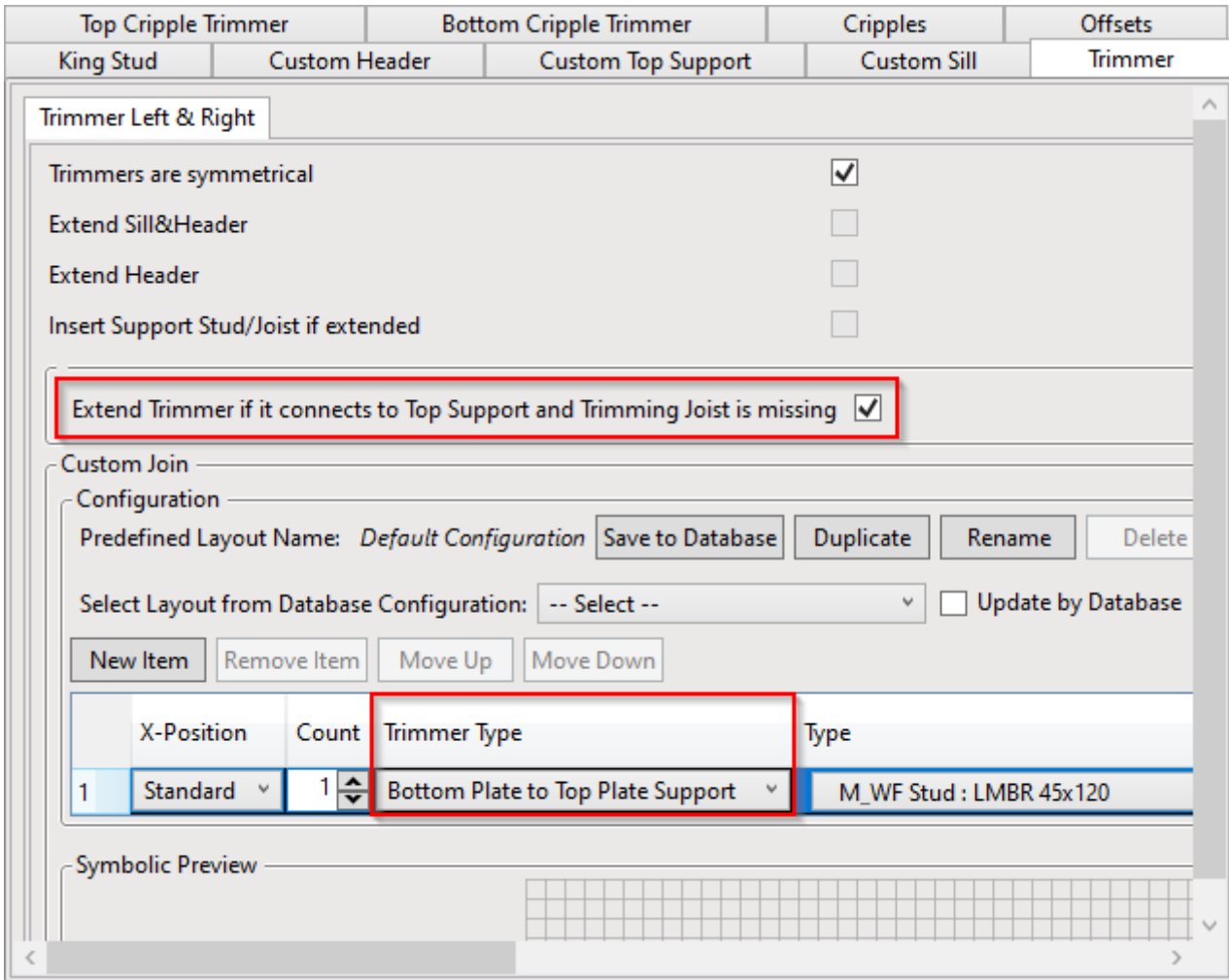
| Top Cripple Trimmer | Bottom Cripple Trimmer | Cripples | Offsets |
|---------------------|------------------------|--------------------|-------------|
| King Stud | Custom Header | Custom Top Support | Custom Sill |
| Trimmer | | | |

| Trimmer Left & Right | |
|--|-------------------------------------|
| Trimmers are symmetrical | <input checked="" type="checkbox"/> |
| Extend Sill&Header | <input checked="" 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 <input checked="" type="checkbox"/> | |

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

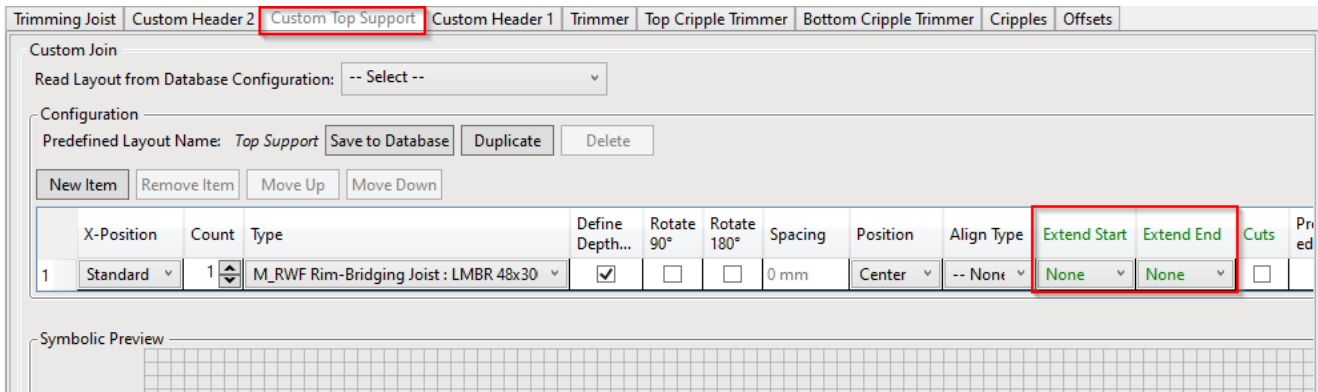
Result:



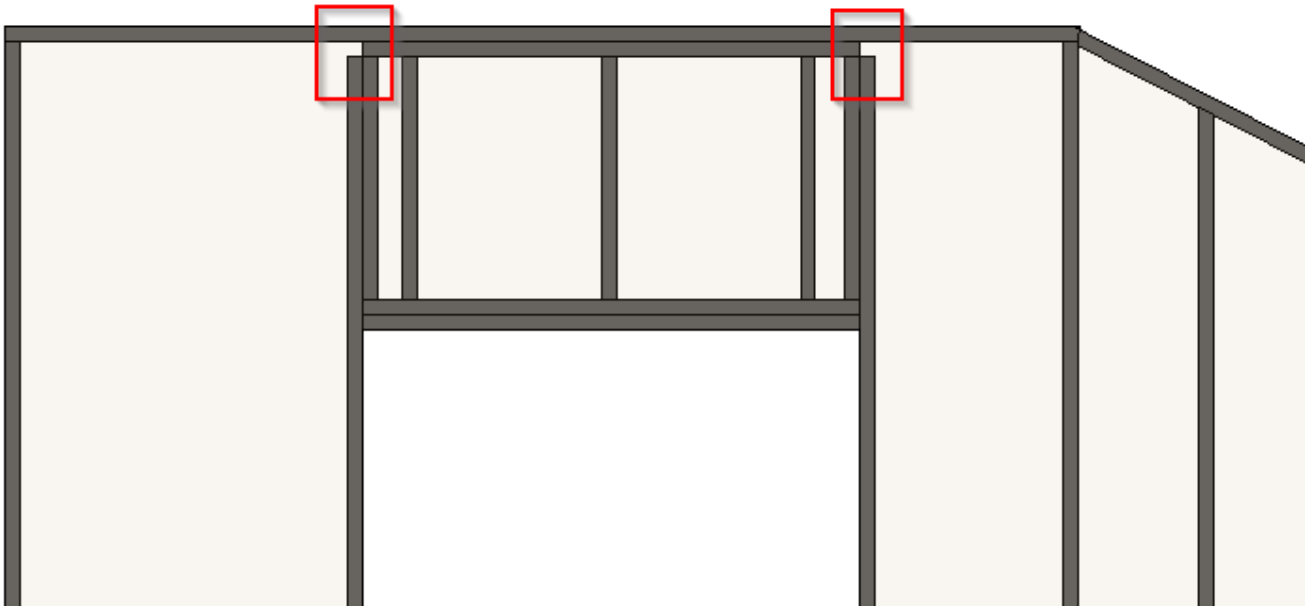


Extend Trimmer if it connects to Top Support and Trimming Joist is missing – extends trimmer ends if there is no King/Trimming Joists and **Trimmer Type = Bottom Plate to Top Plate Support**.

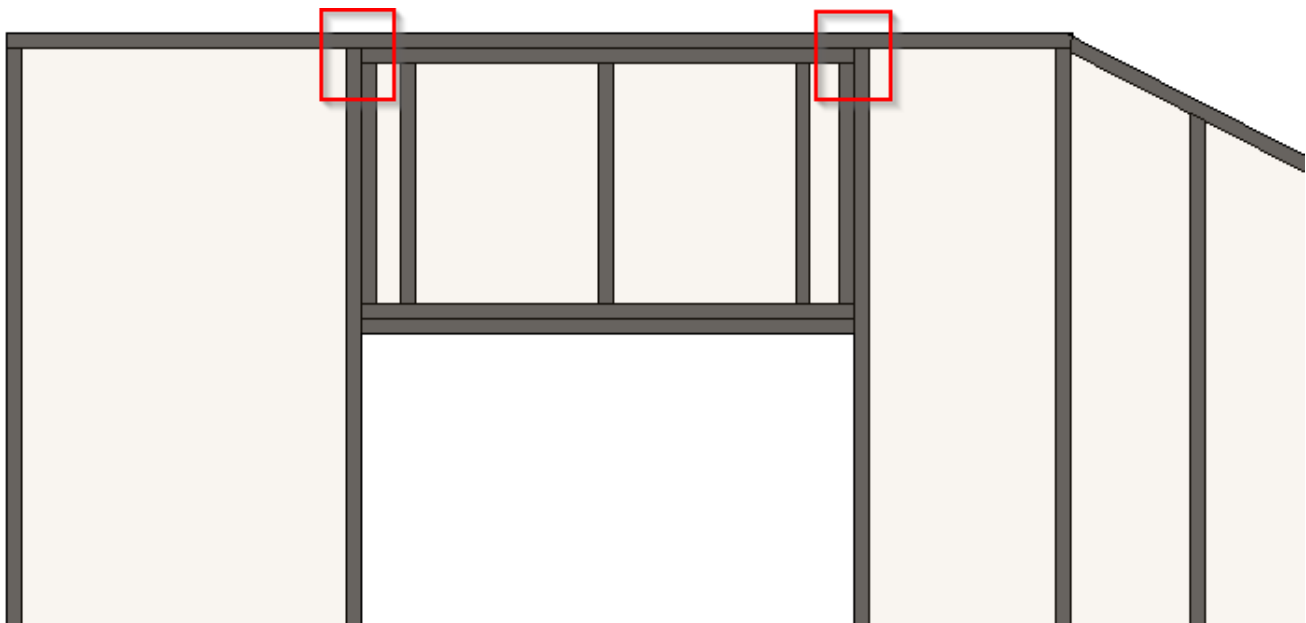
Also top support needs to be without extended ends:

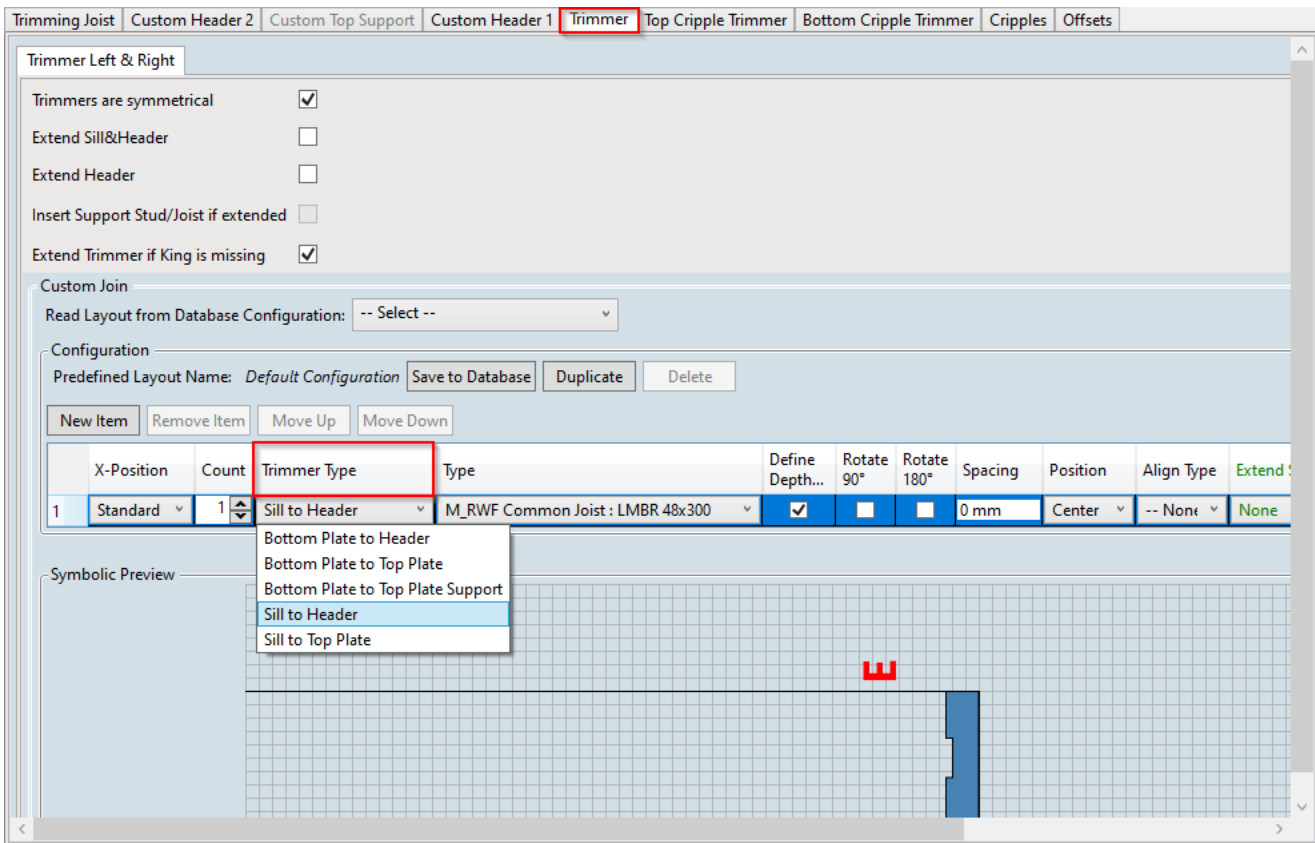


Result when is switched OFF:



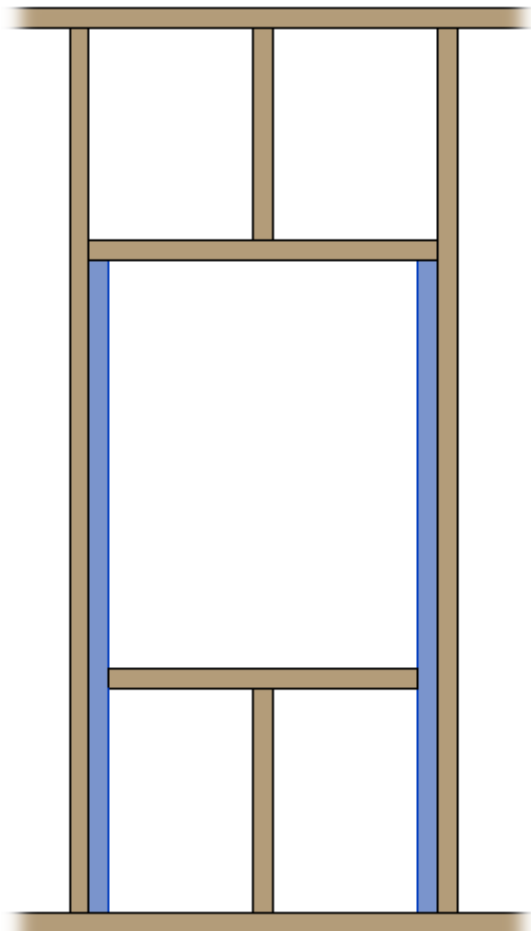
Result when is switched ON:



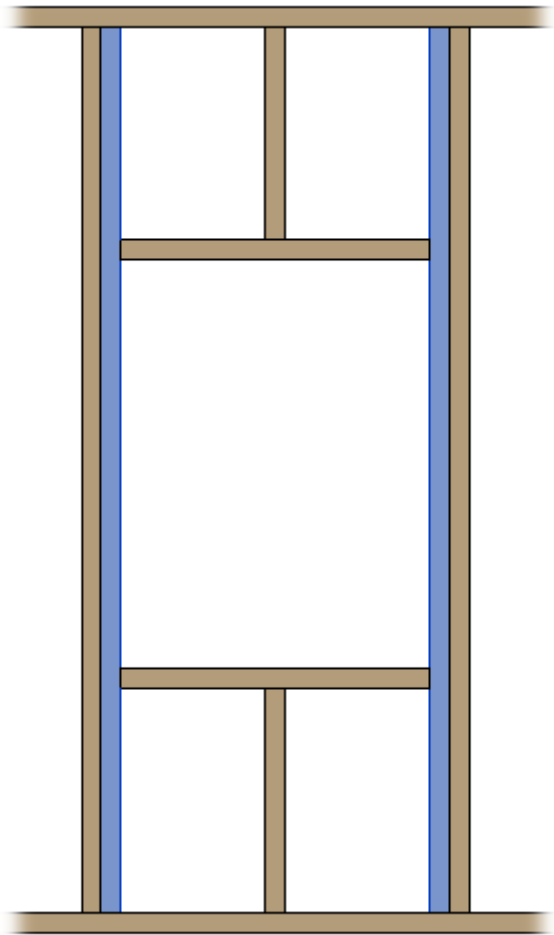


Trimmer Type – defines how the trimmer is positioned relative to opening Sill, Header, Top Plate, Bottom Plate, Top Plate Support.

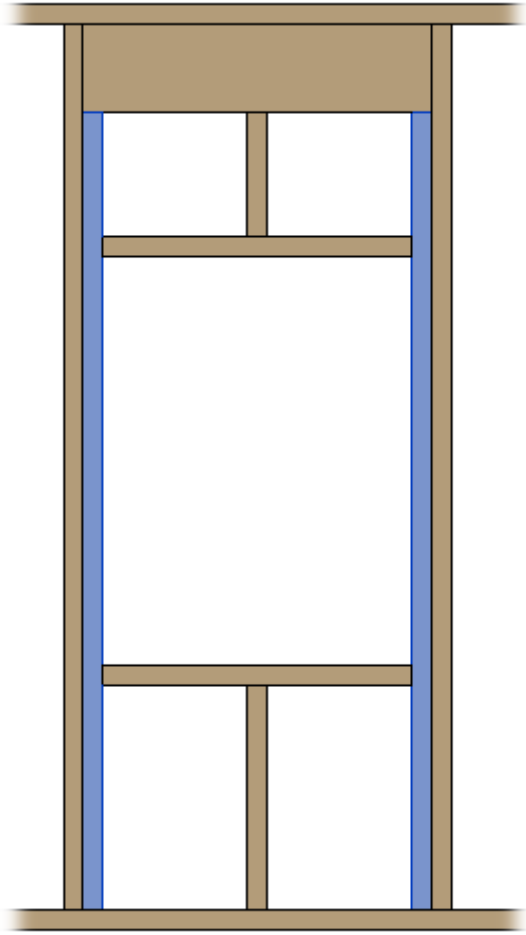
*Example: Trimmer goes from **Bottom Plate to Header**:*



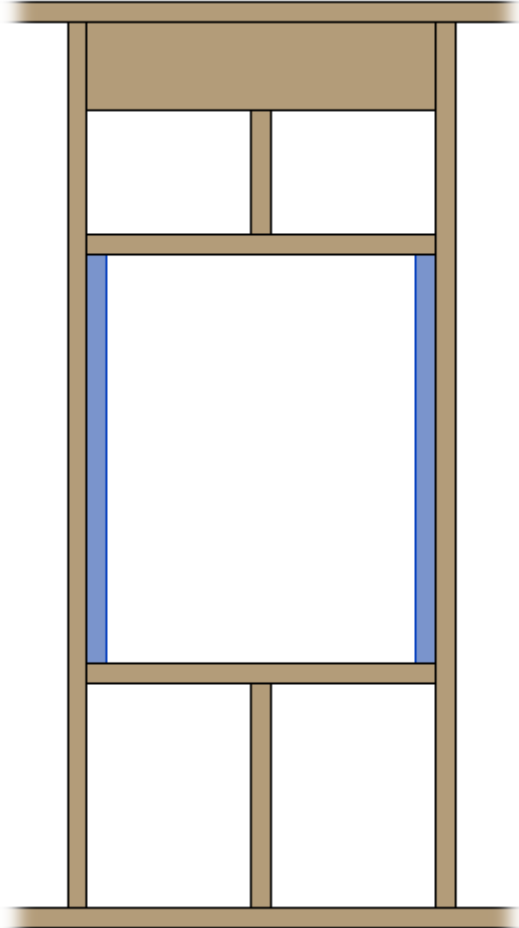
*Example: Trimmer goes from **Bottom Plate** to **Top Plate**:*



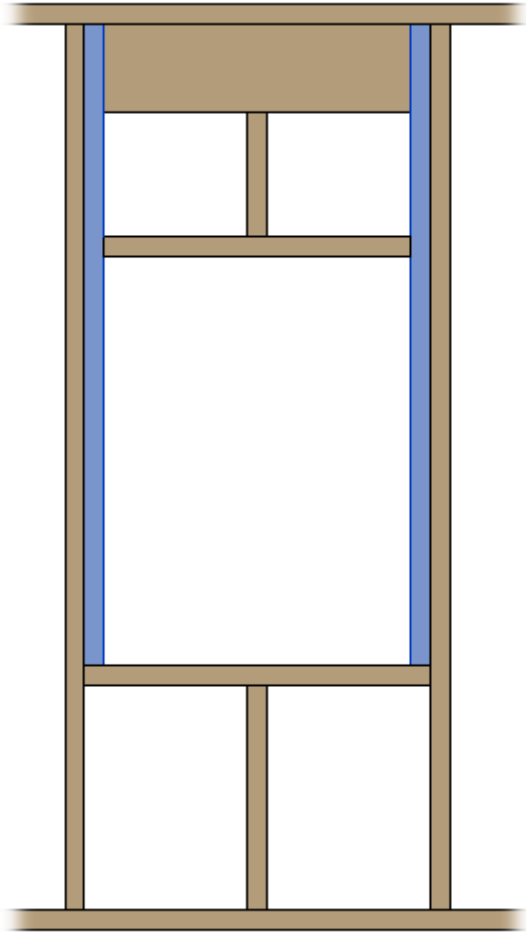
*Example: Trimmer goes from **Bottom Plate** to **Top Plate Support**:*



*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

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

Top Cripple Trimmer Left & Right

Trimmers are symmetrical

Custom Join

Read Layout from Database Configuration: -- Select --

Configuration

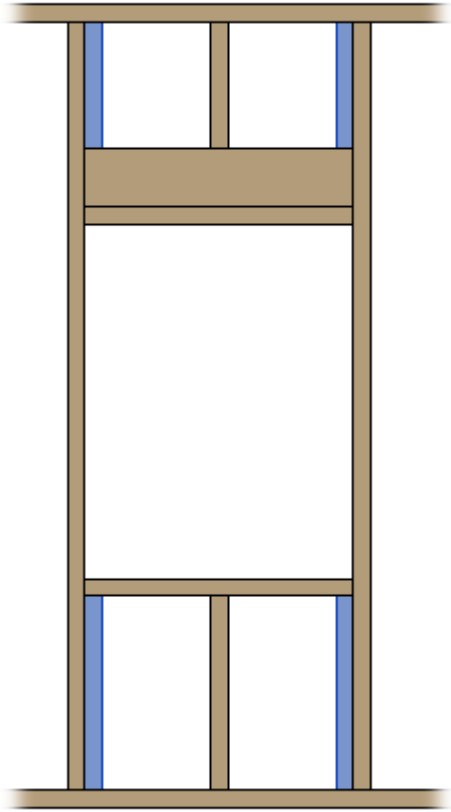
Predefined Layout Name: *Default Configuration*

| | X-Position | Count | Type | Define Depth... | Rotate 90° | Rotate 180° | Spacing |
|---|------------|-------|----------------------------------|-------------------------------------|--------------------------|--------------------------|---------|
| 1 | Standard | 1 | M_RWF Common Joist : LMBR 48x300 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 mm |

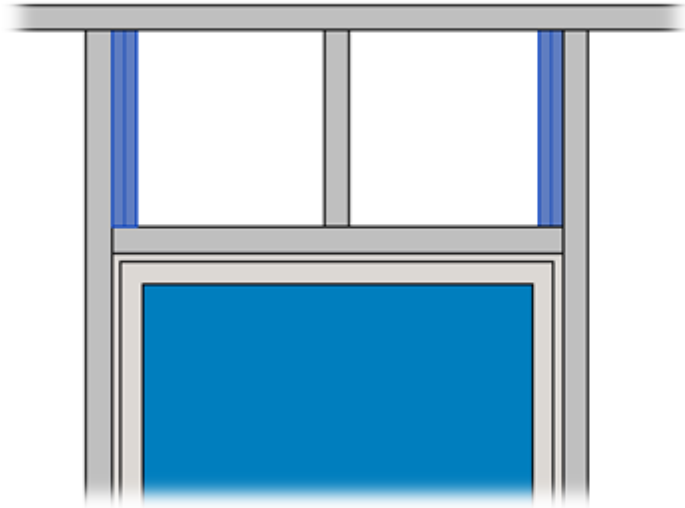
Symbolic Preview

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

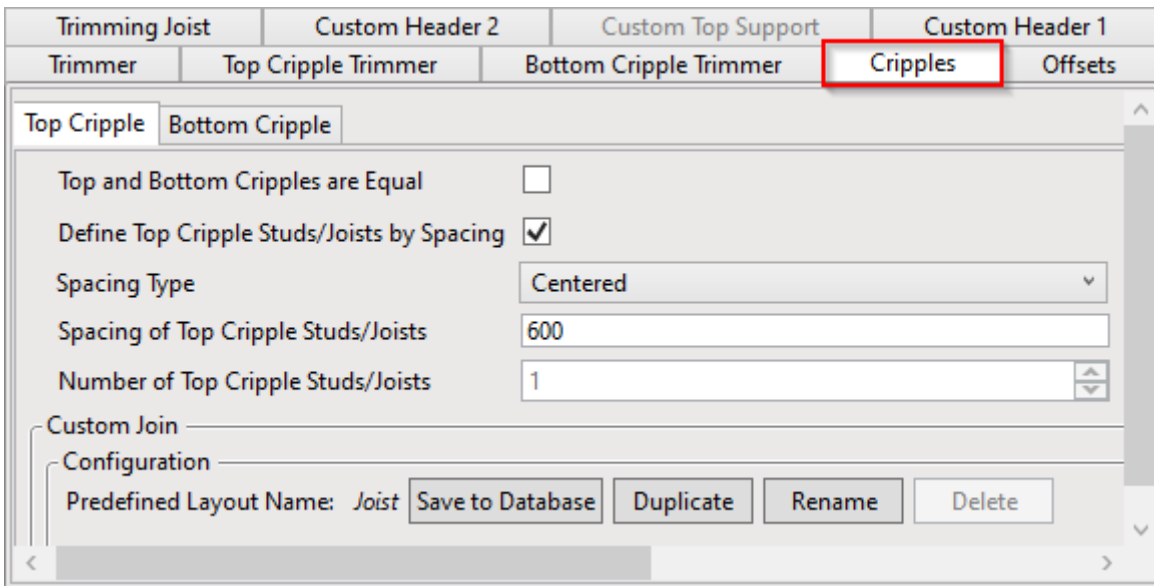
Example 1:



Example 2:



Cripples

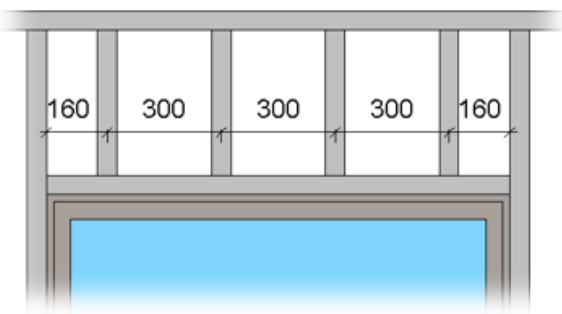
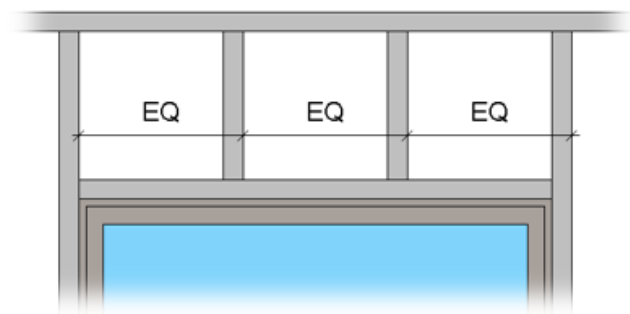


Top and Bottom Cripples are Equal – if ticked OFF, then two tabs appears which allows to control top and bottom cripples separately.

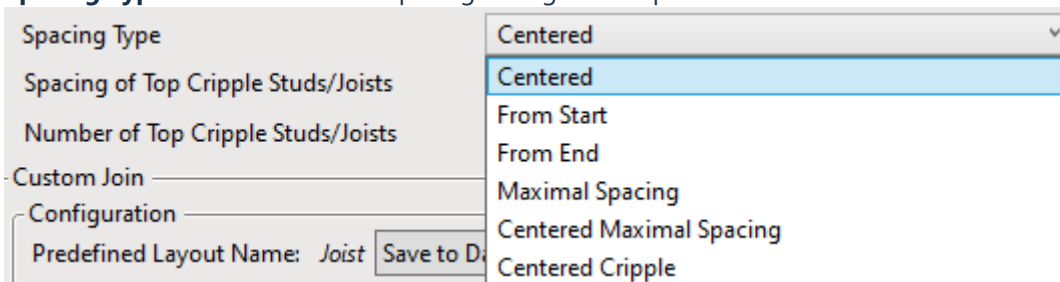
Define Top Cripples Stud/Joists by Spacing – if ticked ON, then you can predefine **Spacing Type** and **Spacing of Top Cripple Stud/Joists**. If unticked, then the software calculates the distance between top cripples automatically. You just need to define a **Number of Top Cripple Stud/Joists**.

Number of Top Cripple Stud = 2

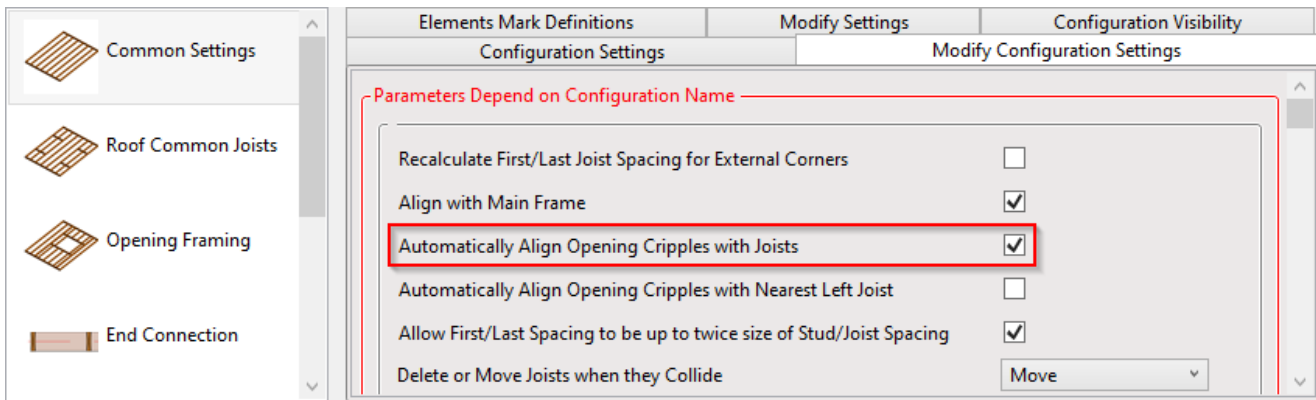
Spacing of Top Cripple Studs = 300



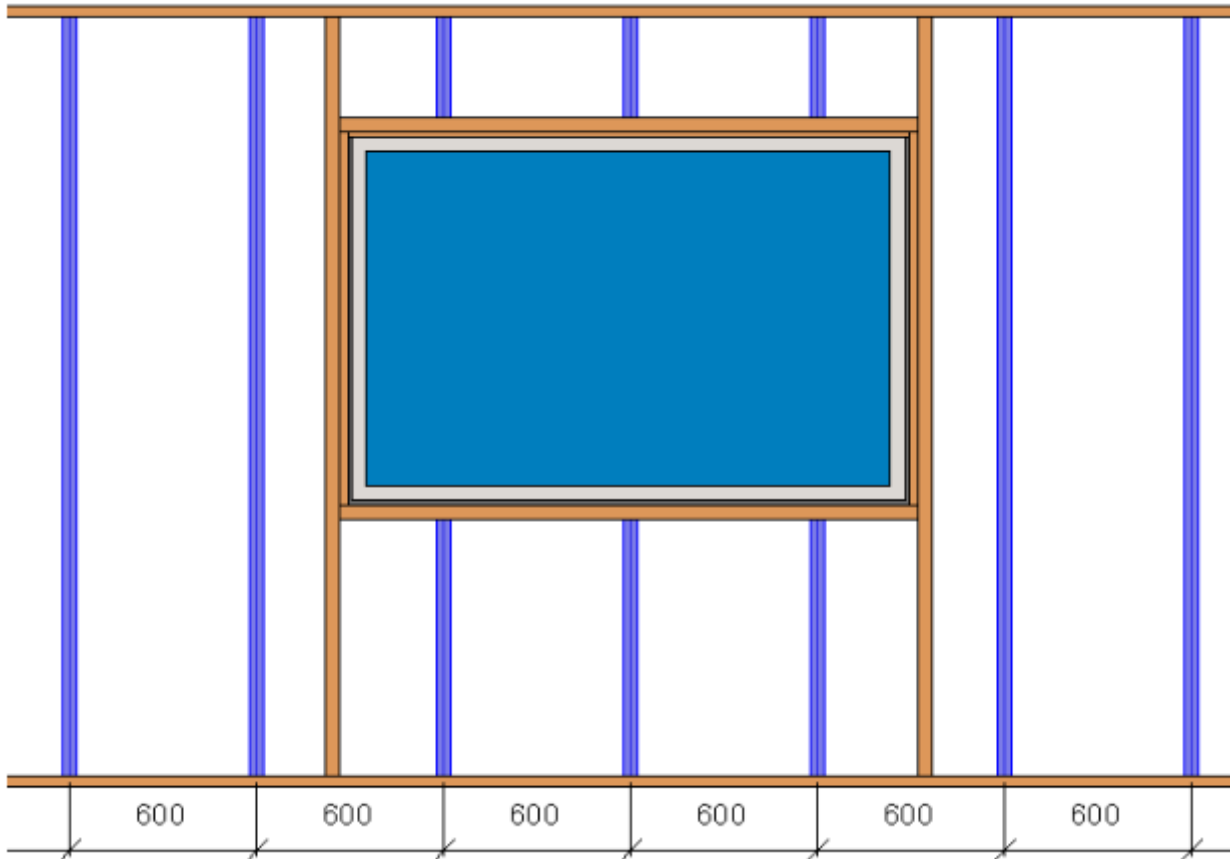
Spacing Type – defines different spacing arrangement options:



*Note: **Define Top Cripples Stud/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:



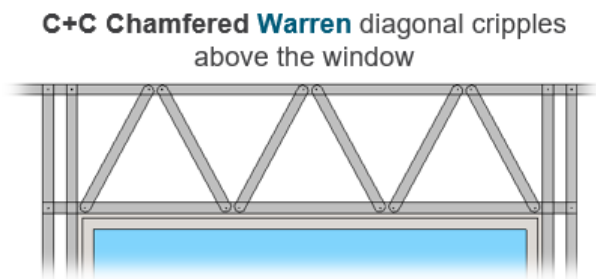
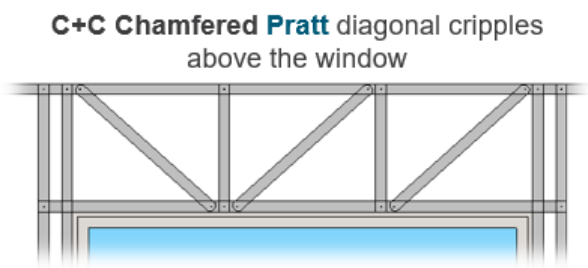
(in Wall+M, Floor+M, Roof+M)

| Trimming Joist | Custom Header 2 | Custom Top Support | Custom Header 1 |
|--|-------------------------------------|------------------------|-----------------|
| Trimmer | Top Cripple Trimmer | Bottom Cripple Trimmer | Cripples |
| Top and Bottom Cripples | | | |
| Top and Bottom Cripples are Equal | <input checked="" type="checkbox"/> | | |
| Define Top Cripple Studs/Joists by Spacing | <input checked="" type="checkbox"/> | | |
| Spacing Type | Centered | | |
| Spacing of Top Cripple Studs/Joists | 600 | | |
| Number of Top Cripple Studs/Joists | 1 | | |
| Diagonal Placing of Top Cripple Studs/Joists | <input type="checkbox"/> | | |
| Diagonal Cripple Panel Type | Pratt | | |
| Offset in Connections | 0 | | |

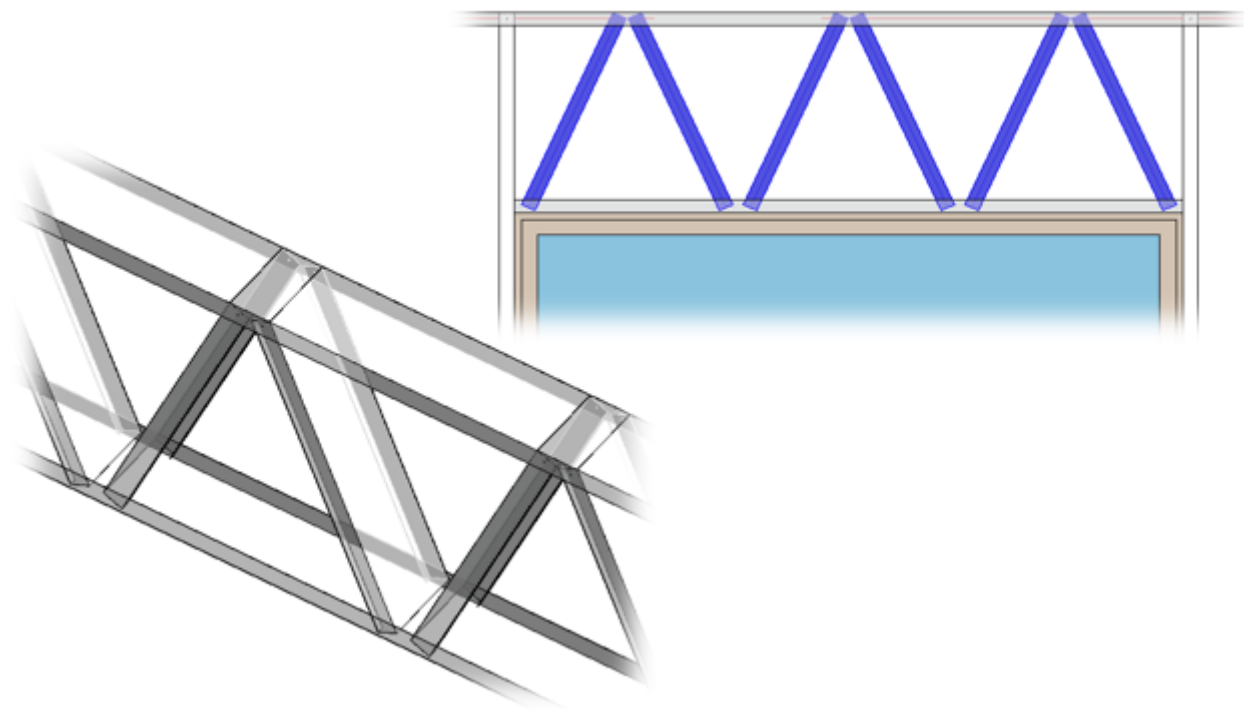
Diagonal Placing of Top Cripple Studs/Joists – select this option if you would like to use diagonal top cripples.

Diagonal Cripple Panel Type – possible options: **Warren** or **Pratt**.

Offset in Connections – distance between diagonal cripples.



Sample **C+U Special Warren** diagonal cripples above the window:

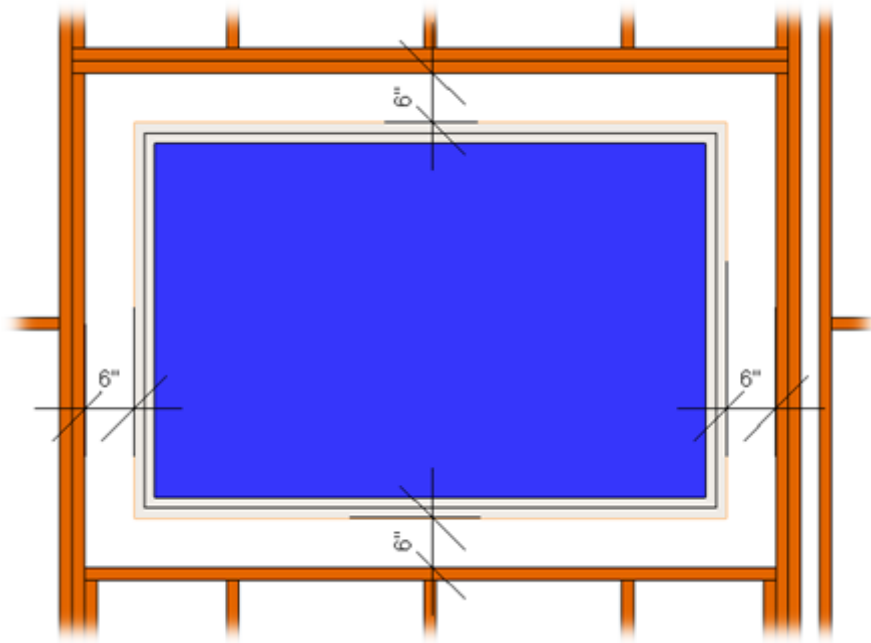


Offset

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

Example with wood:

| 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"/> | | |



Example with metal:

| King Stud | Custom Header | Custom Top Support | Custom Sill | Trimmer | Other Studs | Offsets |
|-----------------------|--------------------------------|--------------------|-------------|---------|-------------|---------|
| Offsets | | | | | | |
| Opening Top Offset | <input type="text" value="2"/> | | | | | |
| Opening Bottom Offset | <input type="text" value="2"/> | | | | | |
| Opening Left Offset | <input type="text" value="3"/> | | | | | |
| Opening Right Offset | <input type="text" value="3"/> | | | | | |

