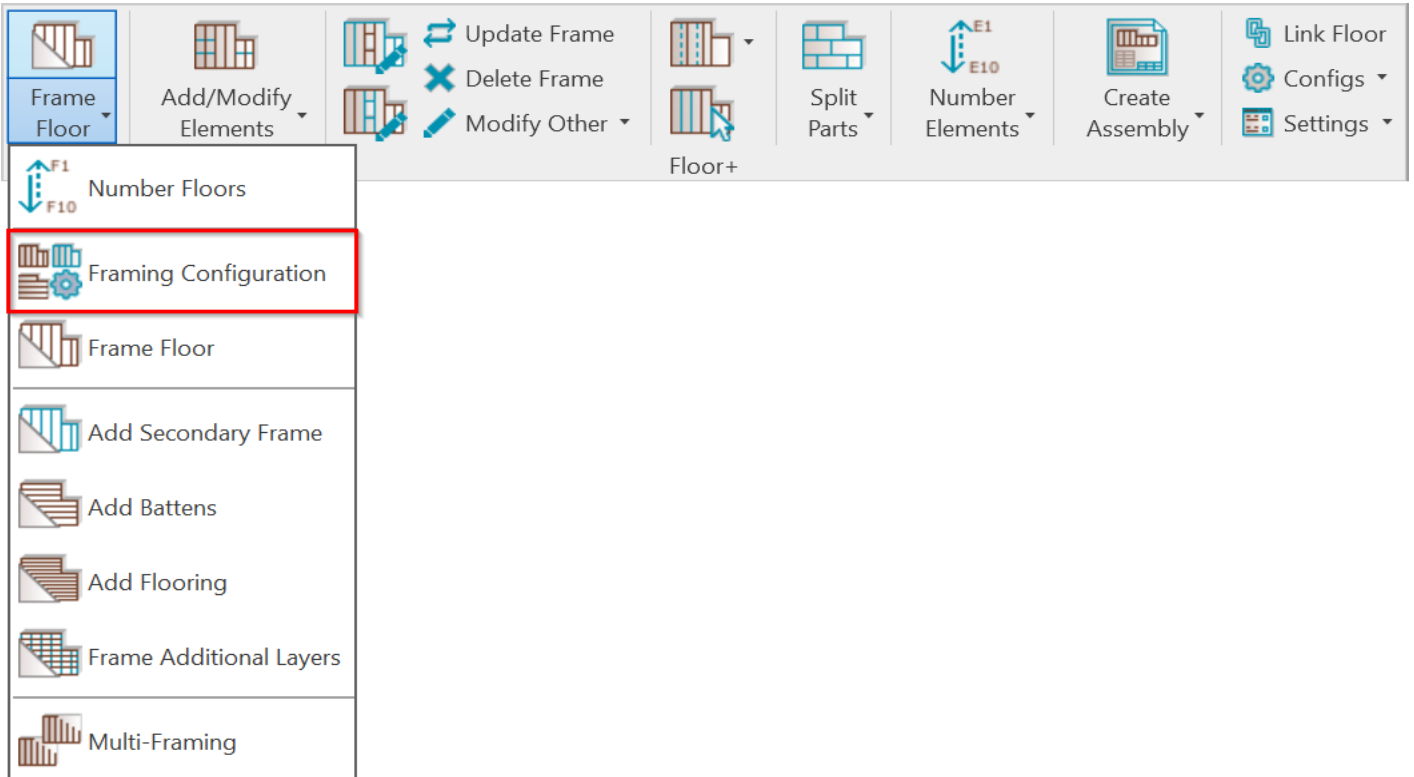


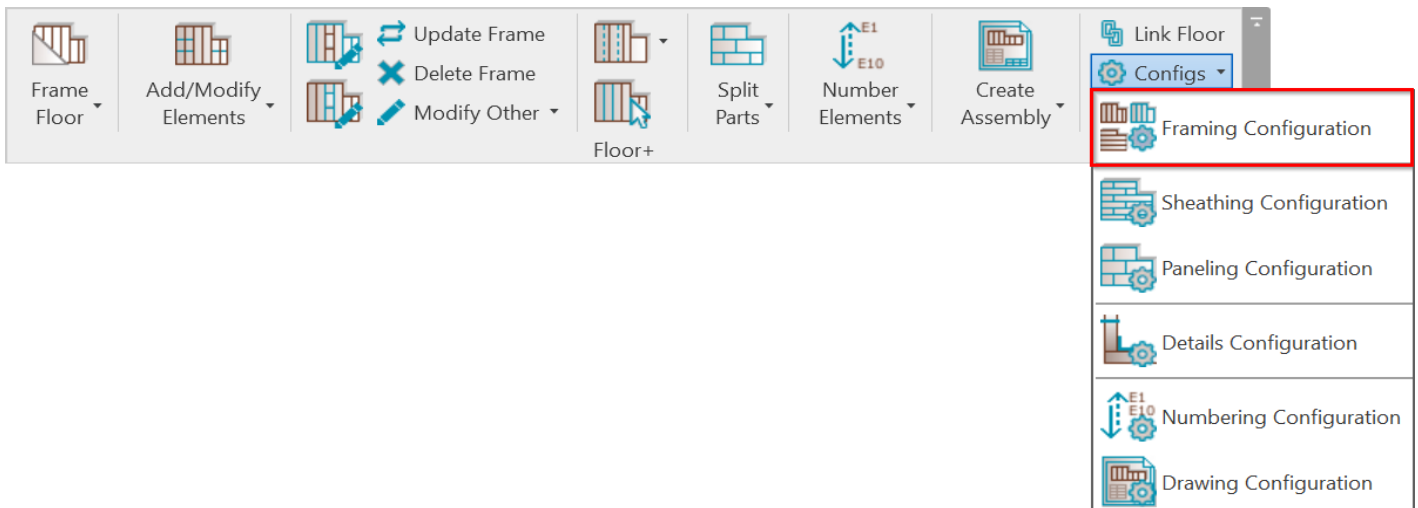
# FRAMING CONFIGURATION – Opening Framing – Edit

Modified on: Sun, 27 Dec, 2020 at 8:22 PM

**Framing Configuration** may be found in two locations:



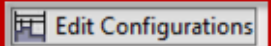
OR:



## Edit Opening Framing Configuration

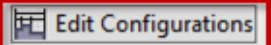
In order to edit, create new, rename, or delete opening framing configuration, you have to click **Edit Configuration** for the structural or non-structural walls:

Window Framing Door Framing Opening Framing Window - Window Join Framing Window - Door Join Framing

 Edit Configurations

Non-structural Walls. Width of Openings:

From	To	Configuration	Preassembled	Opening Element Preassembled
0	1500	M_Window Non-bearing Framing	<input type="checkbox"/>	<input type="checkbox"/>
1500	10000	M_Window Non-bearing Framing 1501	<input type="checkbox"/>	<input type="checkbox"/>

 Edit Configurations

Structural Walls. Width of Openings:

From	To	Configuration	Preassembled	Opening Element Preassembled
0	1000	M_Window Bearing Framing	<input type="checkbox"/>	<input type="checkbox"/>
1000	1500	M_Window Bearing Framing 1001	<input type="checkbox"/>	<input type="checkbox"/>
1500	10000	M_Window Bearing Framing 1501	<input type="checkbox"/>	<input type="checkbox"/>

Default configurations will come together with the software. Default path to opening configurations is:

*C:\Users\user name\AppData\Roaming\Tools 4 Revit\Wall+M(version) Configurations\Framing Configurations\Metric or Imperial\Configuration name\*

It saves all the settings of kings, headers, top supports, sills, trimmers, other studs that are listed down below in the dialog:

Wall+M. Window Framing. Non-structural Walls

Configuration Name: M\_Window Non-bearing Framing Save Save As Rename Delete

King Stud Custom Header Custom Top Support Custom Sill Trimmer Other Studs Offsets

King Left & Right

Kings are symmetrical

Custom Join

Read Layout from Database: -- Select --

Configuration

Predefined Layout Name: Default Configuration Save to Database Duplicate Delete

New Item Remove Item Move Up Move Down

	X-Position	Count	Type	Depth by Core	Rotate 90	Rotate 180	Spacing	Position	Align Type
1	Standard	1	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0 mm	Center	-- None

Symbolic Preview

Save Close

## King Stud

**King Stud** Custom Header Custom Top Support Custom Sill Trimmer Other Studs Offsets

King Left & Right

Kings are symmetrical

Custom Join

Read Layout from Database: -- Select --


Configuration

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

New Item Remove Item Move Up Move Down

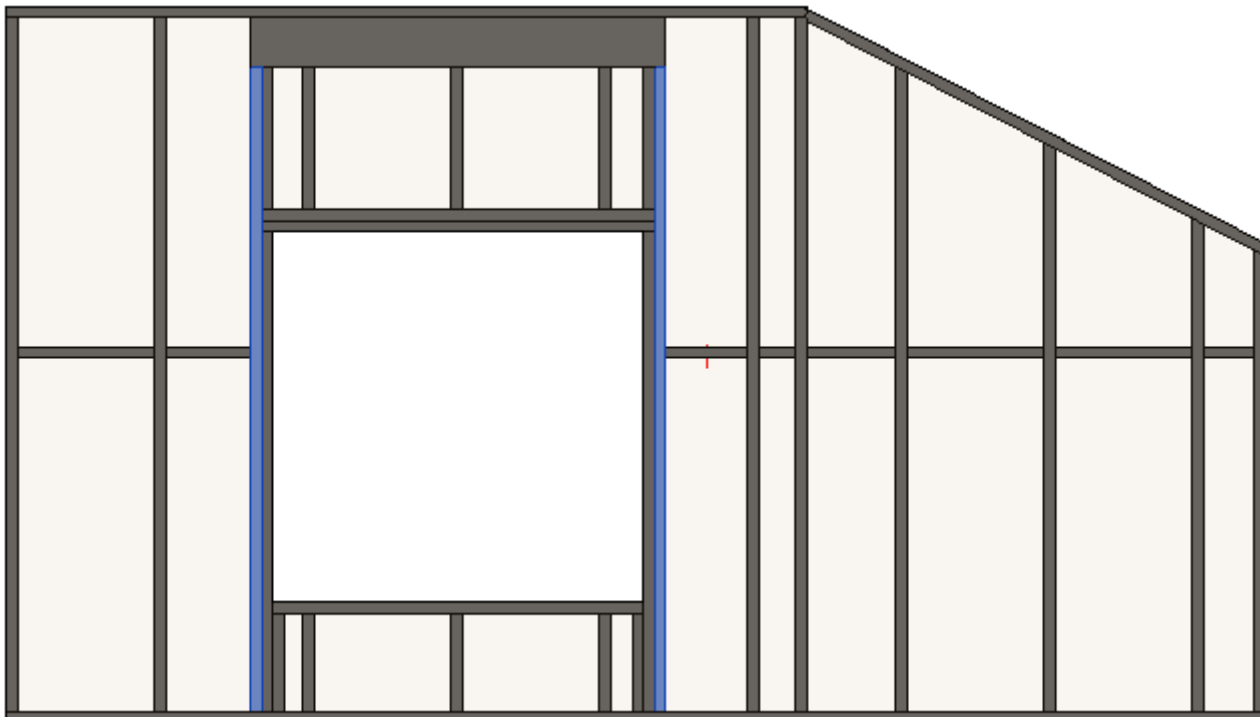
	X-Position	Count	Type	Depth by Core	Rotate 90	Rotate 180	Spacing	Position
1	Standard	1	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0 mm	Center

Symbolic Preview



**King Stud** – in this tab you will find all settings for creating king studs needed for the opening.

**Kings are symmetrical** – switch this *OFF* if kings should be different in the left and right sides.



# Custom Join

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

King Left & Right

Kings are symmetrical

**Custom Join**

Configuration

Predefined Layout Name: *Default Configuration*

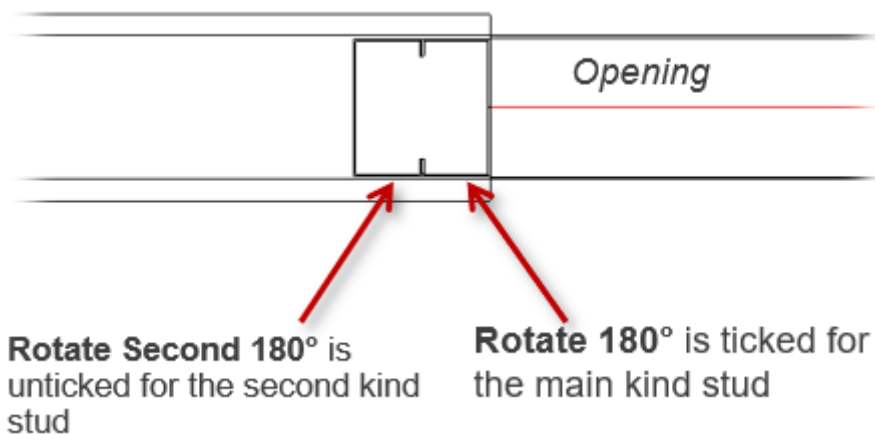
Select Layout from Database Configuration: -- Select --

	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Flip Facing	Spacing
1	Standard	1	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm

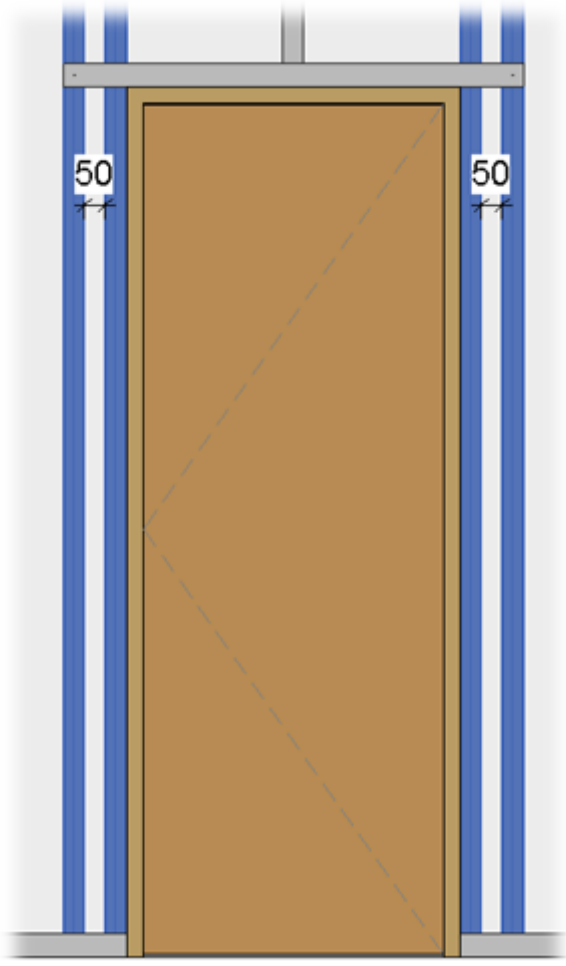
Symbolic Preview

**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>)

**Rotate 180** – rotates the selected stud by 180 degrees. This option is important when the stud is not symmetrically shaped. For rectangular studs this option usually is not used.



**Spacing** – distance between the selected stud and the previous stud.



## Custom Header, Custom Sill

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

Additional Parameters

Custom Join

Read Layout from Database Configuration: -- Select --

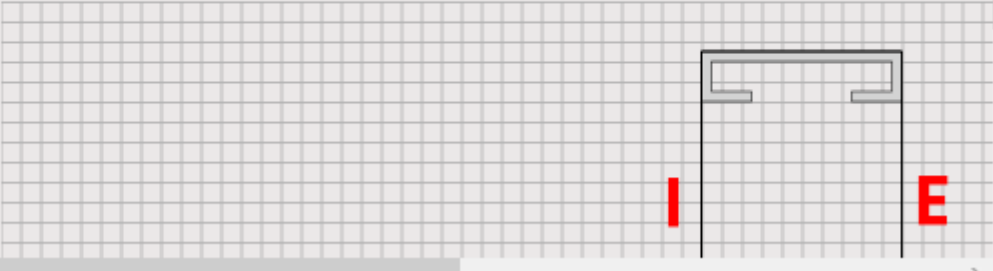
Configuration

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

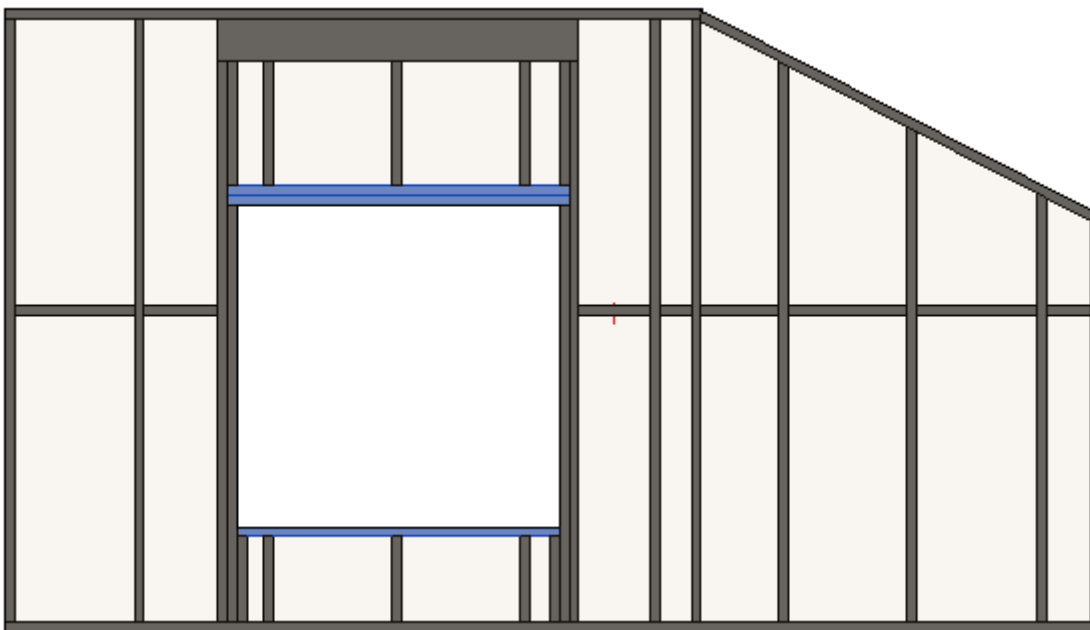
New Item Remove Item Move Up Move Down

1	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Spacing
	Standard	1	M_MF C+C Plate : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm

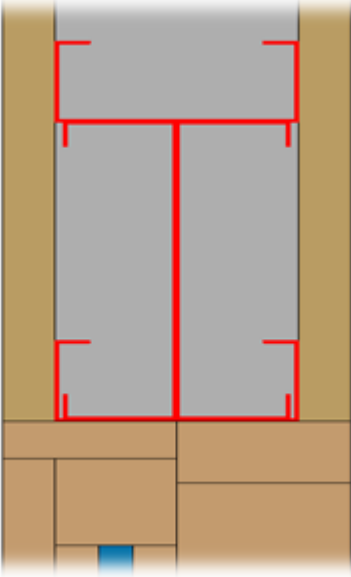
Symbolic Preview



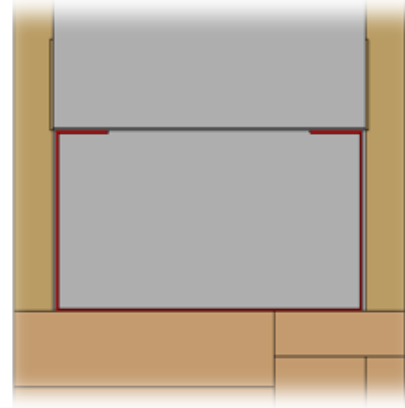
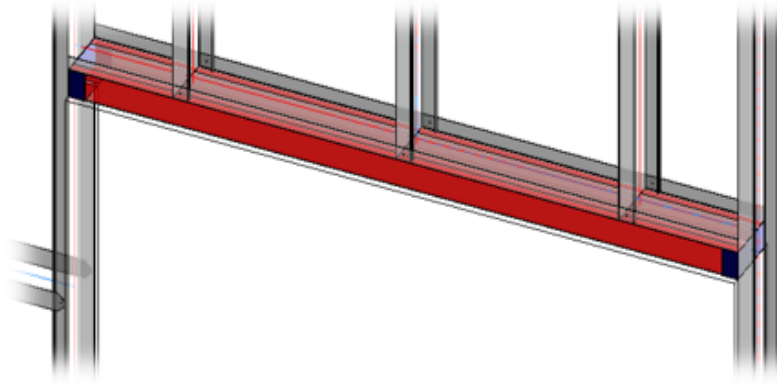
Example:



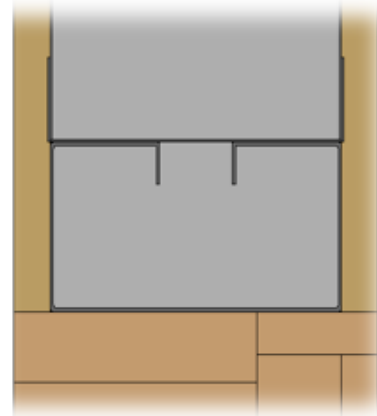
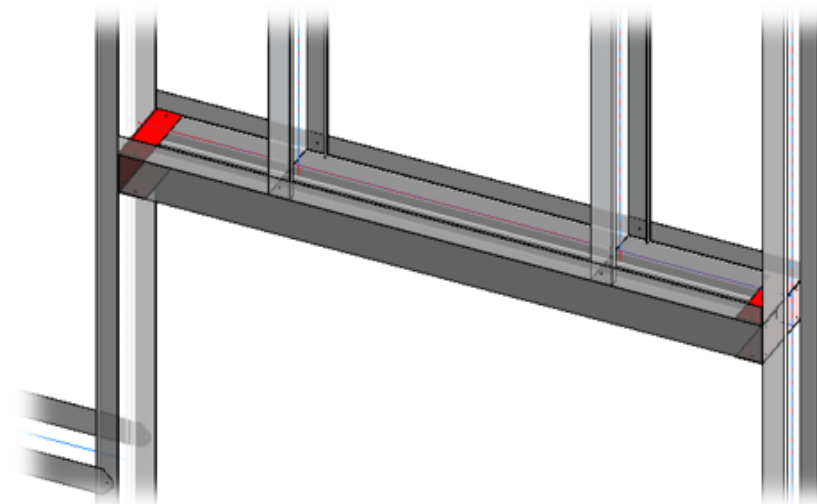
Sample with **C+C** window header (Section view):



**C+U system** – Clark Dietrich Red Header RO (3D view):



**C+U system** – Clark Dietrich HDS window header (3D view):



## Custom Top Support

Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
King Stud	Custom Header	<b>Custom Top Support</b>	Custom Sill
			Trimmer

Custom Join

Read Layout from Database Configuration: -- Select --

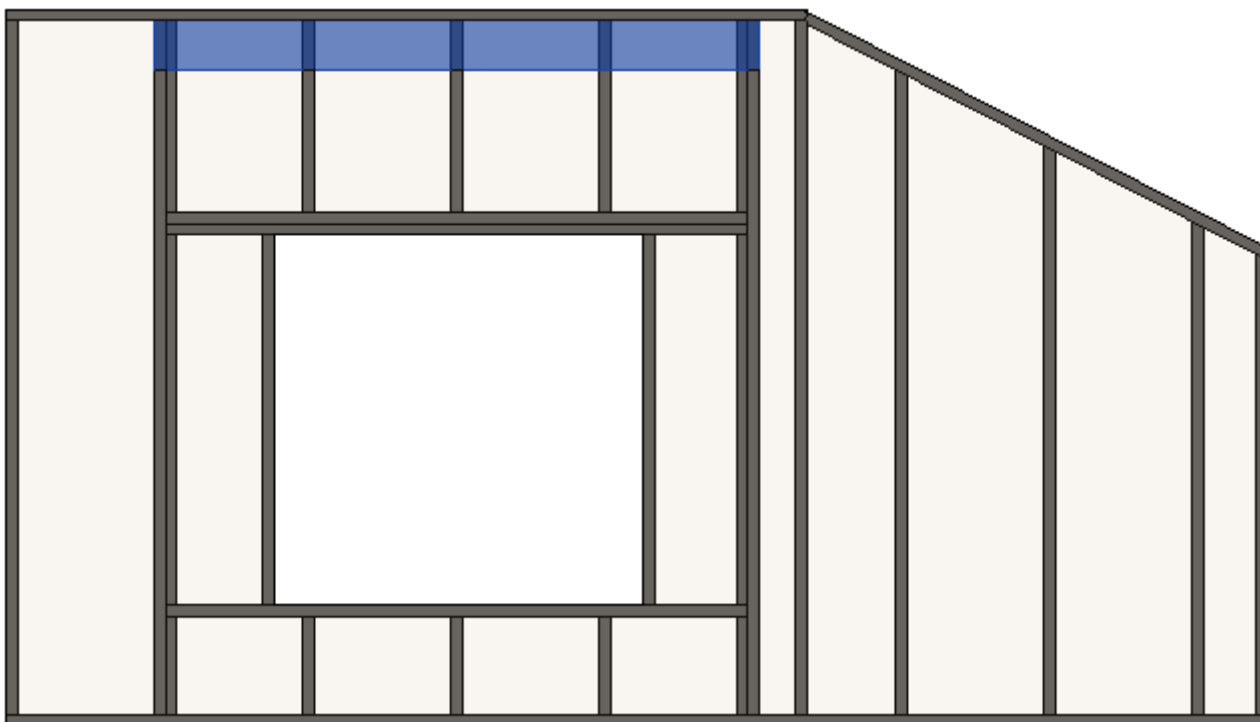
Configuration

Predefined Layout Name: *Default Configuration*

	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Spacing
1	Standard	1	M_MF C+C Plate : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm

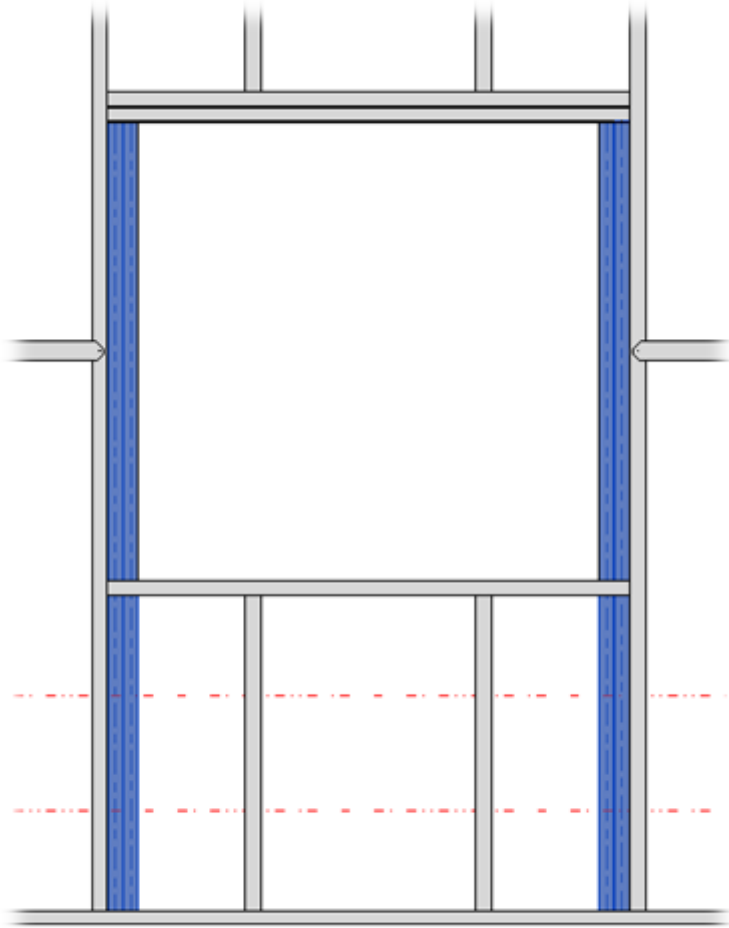
Symbolic Preview

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





# Trimmers



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

Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
King Stud	Custom Header	Custom Top Support	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* Save to Database Duplicate Rename Delete

Select Layout from Database Configuration: -- Select --

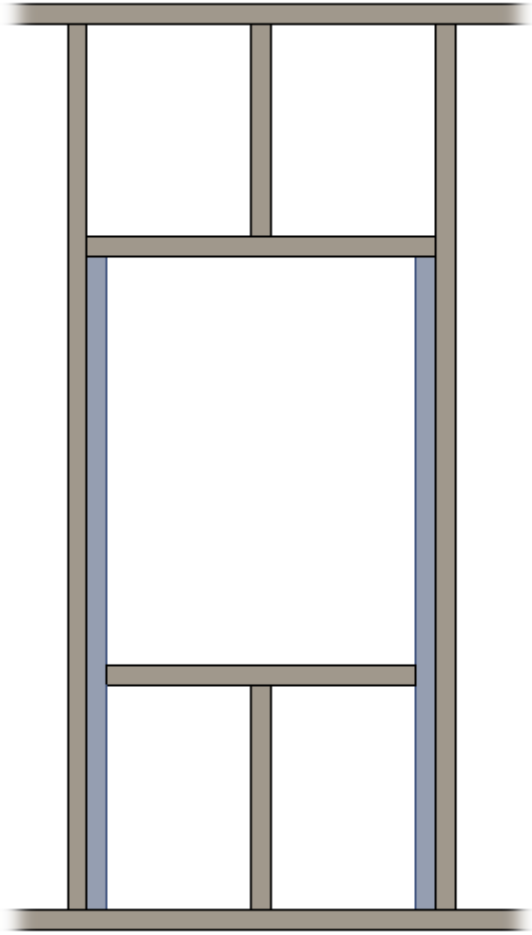
New Item Remove Item Move Up Move Down

X-Position	Count	Trimmer Type	Type	Define Depth...	Rotate 90°	Rotate 180°
1	1	Bottom Plate	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

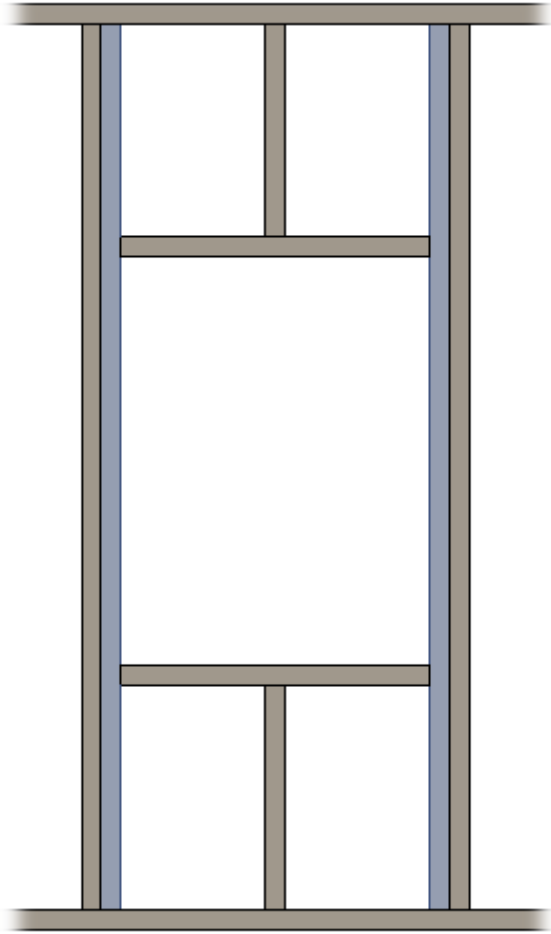
- Bottom Plate to Header
- Bottom Plate to Top Plate
- Bottom Plate to Top Plate Support
- Sill to Header
- Sill to Top Plate

Symbolic Preview

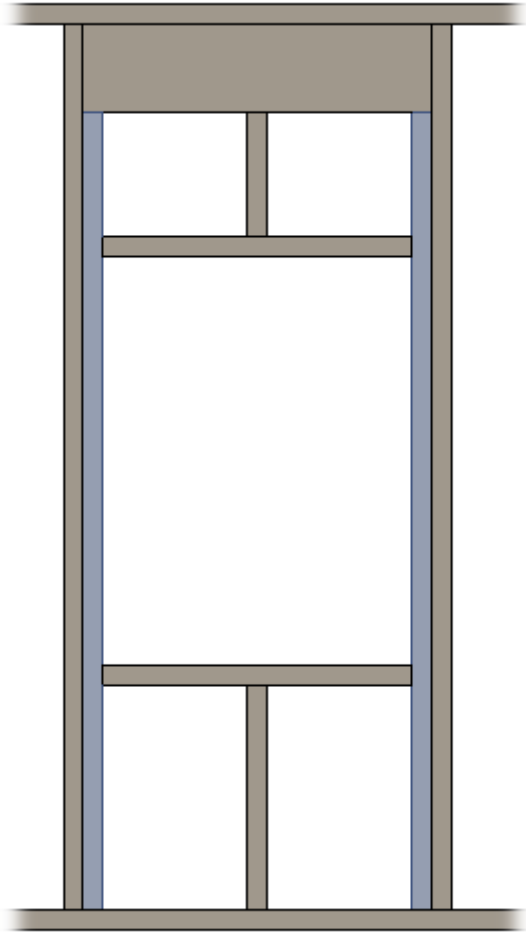
*Example: Trimmer goes from **Bottom Plate to Header**:*



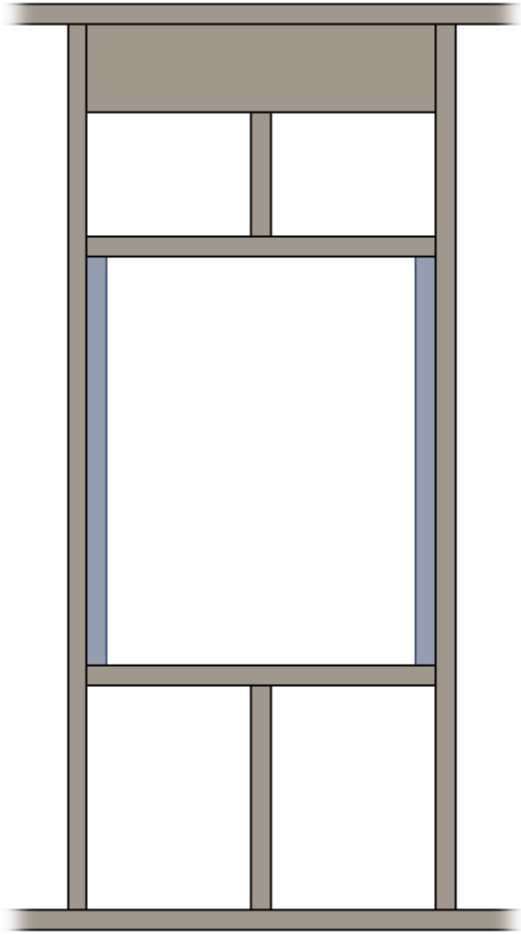
*Example: Trimmer goes from **Bottom Plate** to **Top Plate**:*



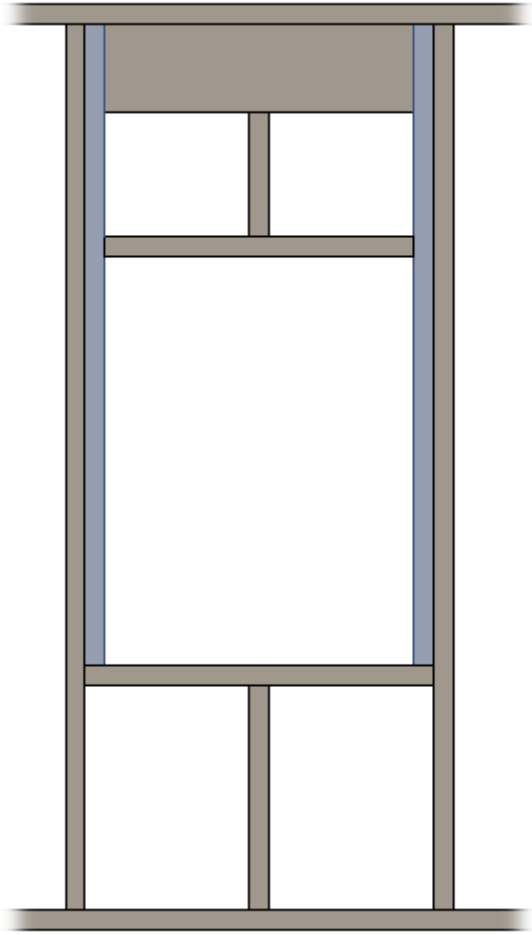
*Example: Trimmer goes from **Bottom Plate** to **Top Plate Support**:*



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



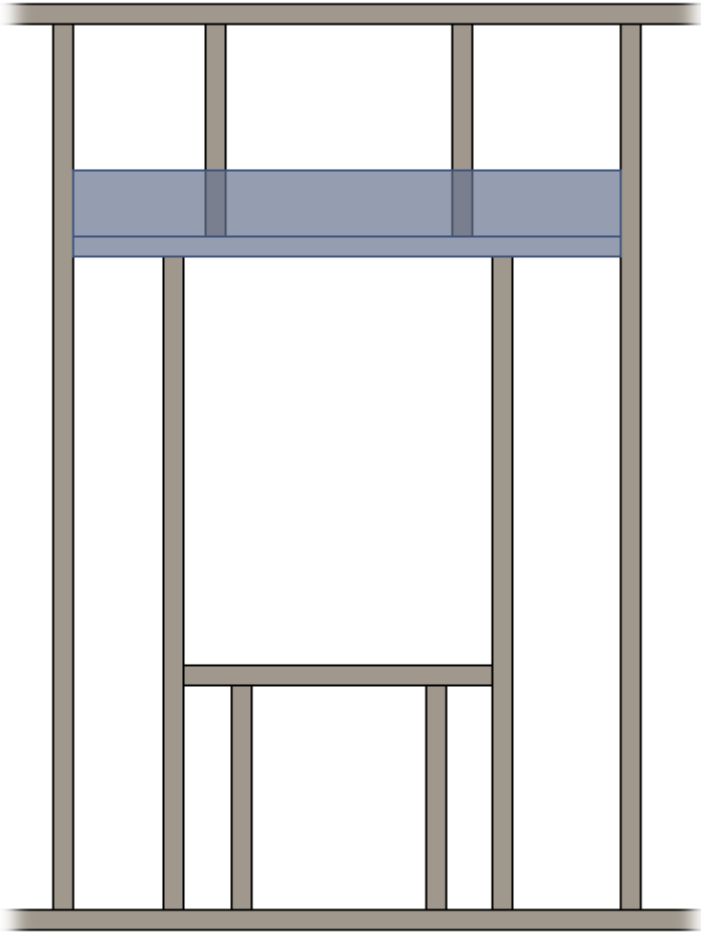
*Example: Trimmer goes from Sill to Top Plate:*



**Extend Header** – extends the Header if **Bottom Plate to Header**, **Sill to Header** is selected near **Trimmer Type**.

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"/>

*Result:*



**Extend Sill/Header** – extends Sill and Header if **Sill to Header** is selected near **Trimmer Type**.

Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
King Stud	Custom Header	Custom Top Support	Custom Sill
			<b>Trimmer</b>

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

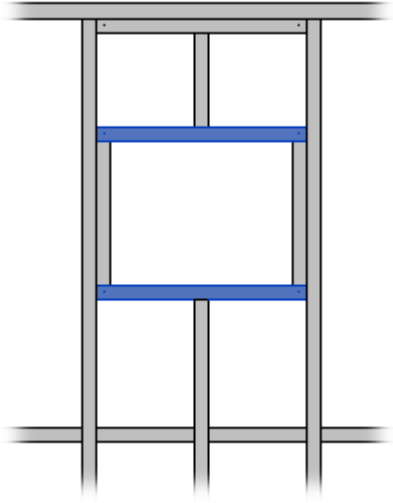
Predefined Layout Name: *Default Configuration*

Select Layout from Database Configuration: -- Select --

	X-Position	Count	Trimmer Type	Type	Define Depth...	Rotate 90°	Rotate 180°	Flip Facing	Spa
1	Standard	1	<b>Sill to Header</b>	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 m

*Result:*





Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets
King Stud	Custom Header	Custom Top Support	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

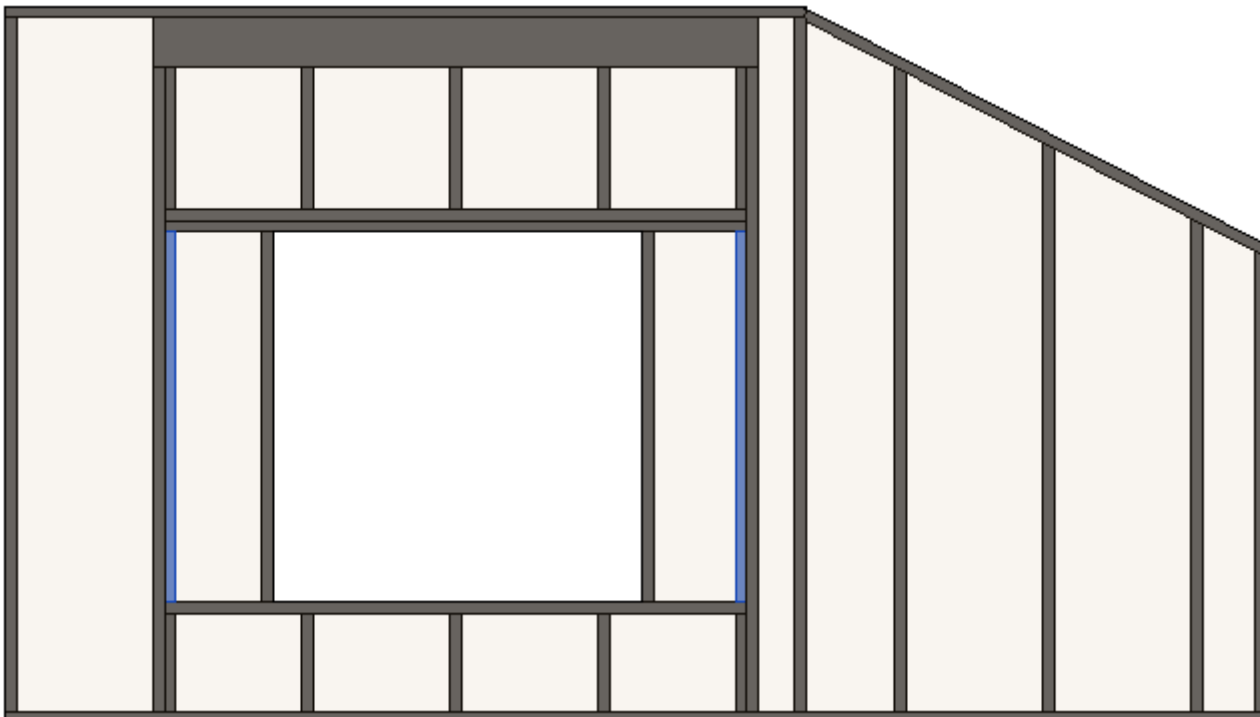
Predefined Layout Name: *Default Configuration*

Select Layout from Database Configuration: -- Select --

	X-Position	Count	Trimmer Type	Type	Define Depth...	Rotate 90°	Rotate 180°
1	Standard	1	Sill to Header	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

*Result:*



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

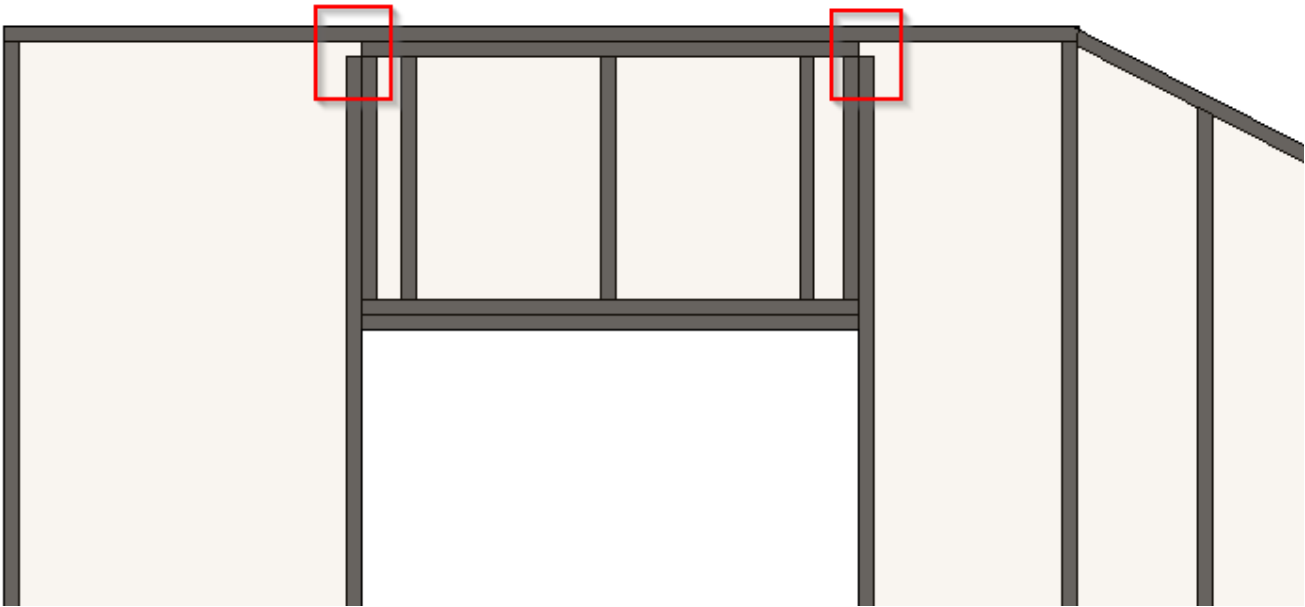
	X-Position	Count	Trimmer Type	Type	Define Depth...	Rotate 90°	Rotate 180°
1	Standard	1	Sill to Header	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

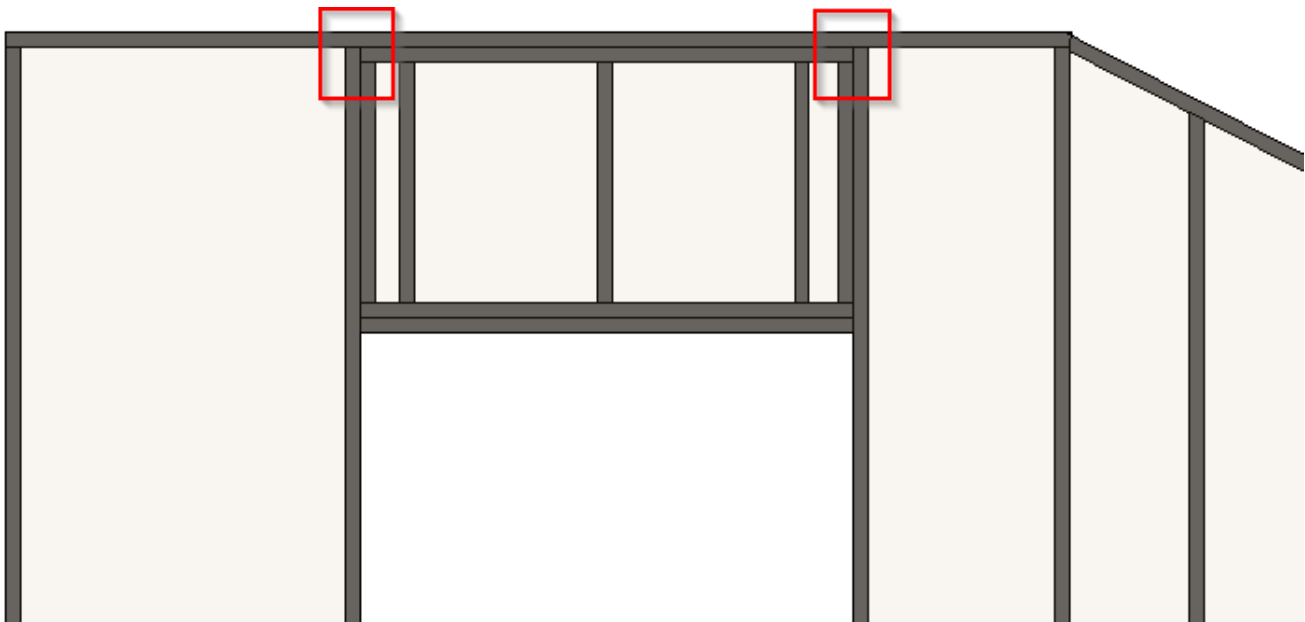
Also top support needs to be without extended ends:

King Stud	Custom Header	Custom Top Support	Custom Sill	Trimmer	Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	Offsets					
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="Delete"/>													
Select Layout from Database Configuration: -- Select -- <input type="checkbox"/> Link with Configuration													
<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	Type	Define Depth...	Rotate 90°	Rotate 180°	Flip Facing	Spacing	Position	Align Type	Extend Start	Extend End	Cuts
1	Standard	1	M_WF Plate : LMBR 45x120	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm	Externa	-- None	None	None	<input type="checkbox"/>
-Symbolic Preview													

*Result when is switched OFF:*



*Result when is switched ON:*



## Top/Bottom Cripple Trimmer

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

Top Cripple Trimmer Left & Right

Trimmers are symmetrical

Custom Join

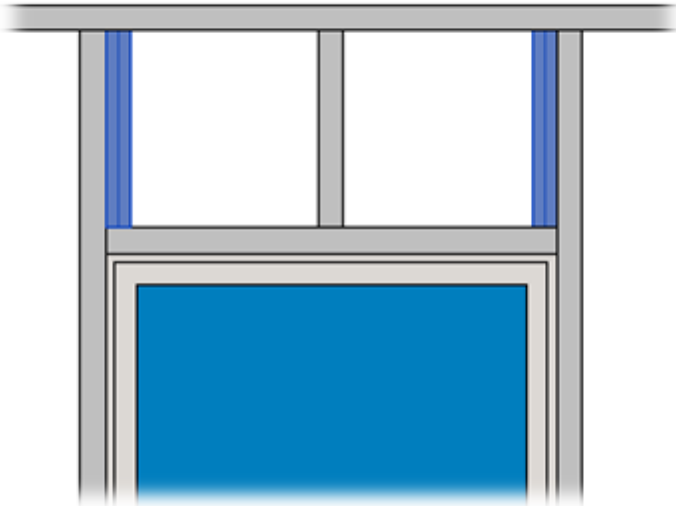
Configuration

Predefined Layout Name: *Default Configuration*

Select Layout from Database Configuration: -- Select --

	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Flip Facing	Spacing
1	Standard	1	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm

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



## Cripples

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

**Top and Bottom Cripples**

Top and Bottom Cripples are Equal

Define Top Cripple Studs/Joists by Spacing

Spacing Type:

Spacing of Top Cripple Studs/Joists:

Number of Top Cripple Studs/Joists:

Diagonal Placing of Top Cripple Studs/Joists

Diagonal Cripple Panel Type:

Offset in Connections:

**Custom Join**

Configuration

Predefined Layout Name:

Select Layout from Database Configuration:

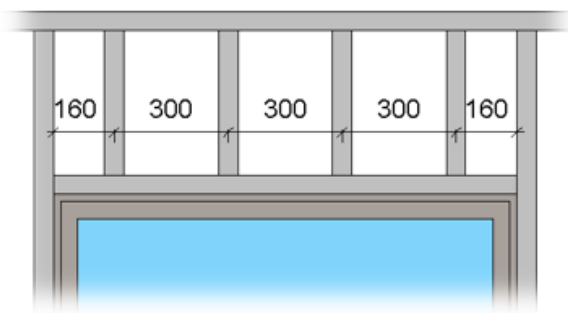
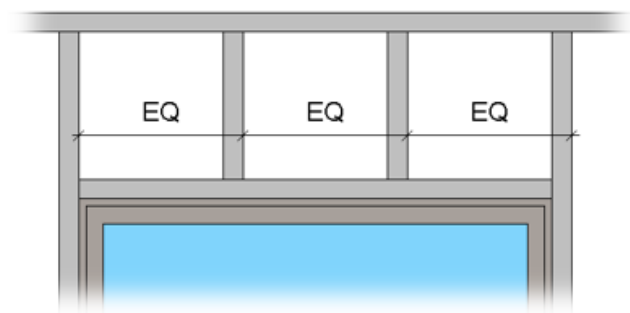
	X-Position	Count	Type	Define Depth...	Rotate 90°	Rotate 180°	Flip Facing	Spacing
1	<input type="text" value="Center"/>	<input type="text" value="1"/>	M_MF C+C Stud : C10251-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0 mm

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

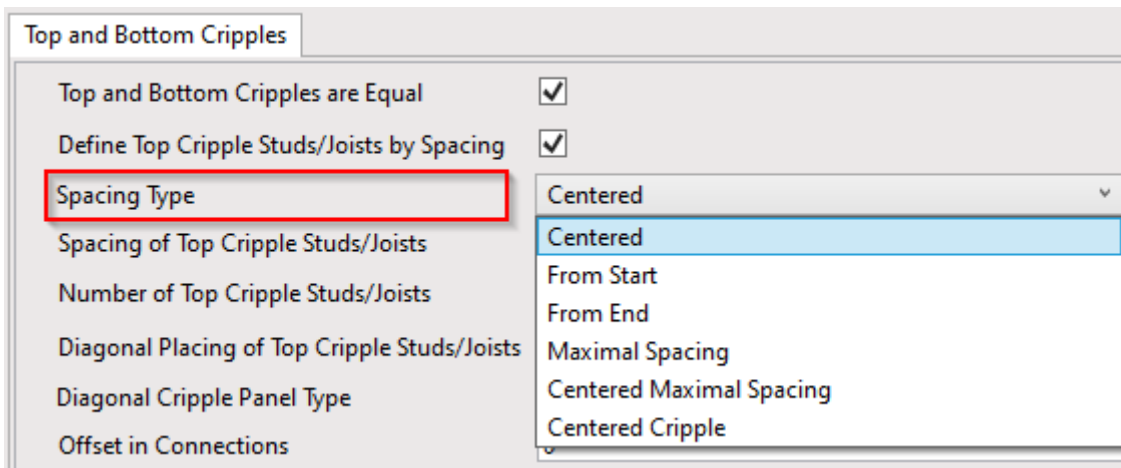
**Define Top Cripples Studs/Joists by Spacing** – if ticked ON, then you can predefine **Spacing Type** and **Spacing of Top Cripple Studs/Joists**. If unticked, then the software calculates the distance between top cripples automatically. You just need to define a **Number of Top Cripple Studs/Joists**.

**Number of Top Cripple Stud = 2**

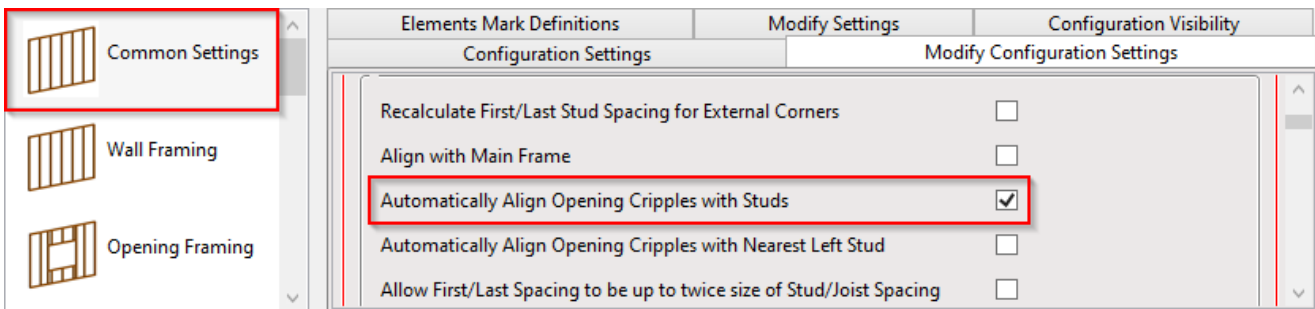
**Spacing of Top Cripple Studs = 300**



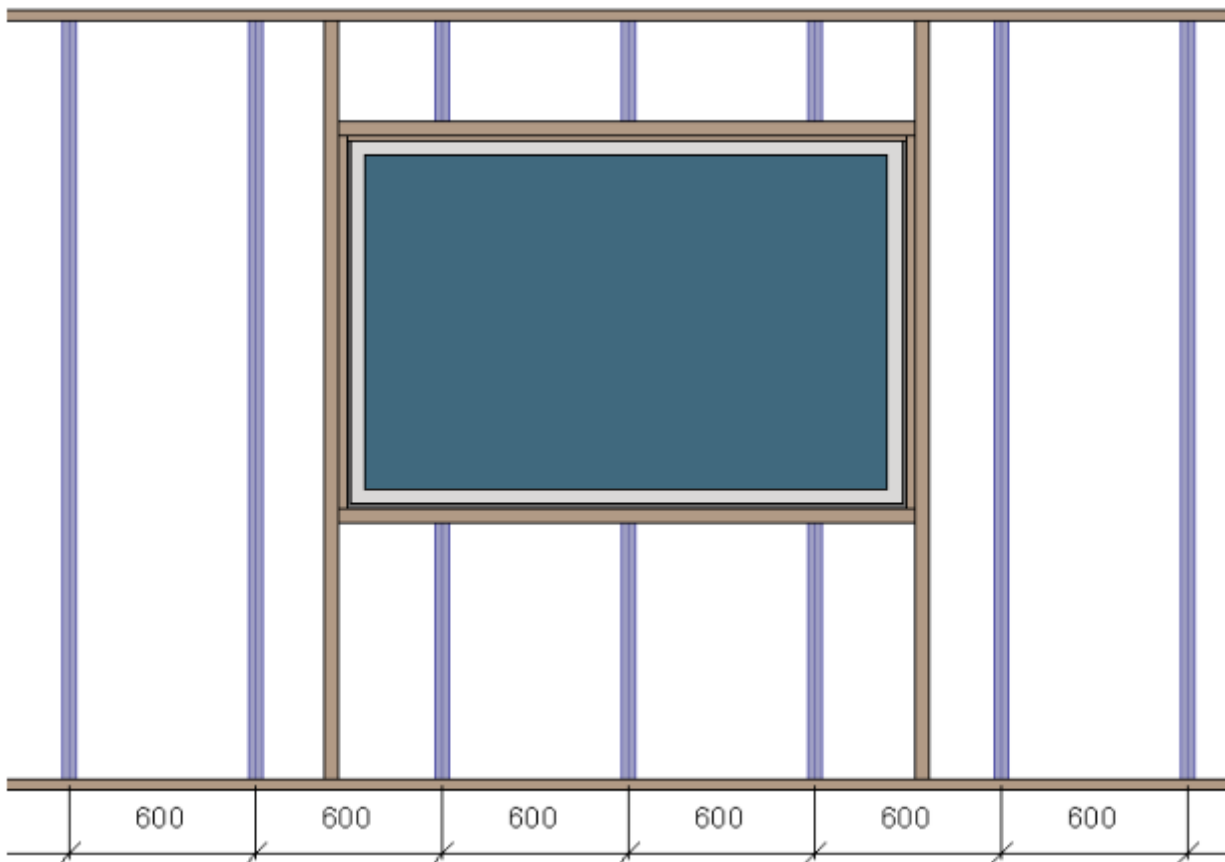
**Spacing Type** – defines different spacing arrangement options:



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



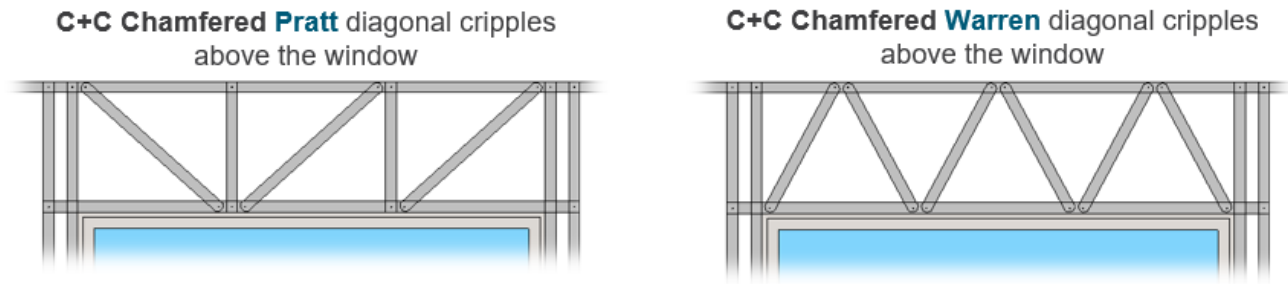
**Automatically Align Opening Cripples with Studs** is switched ON:



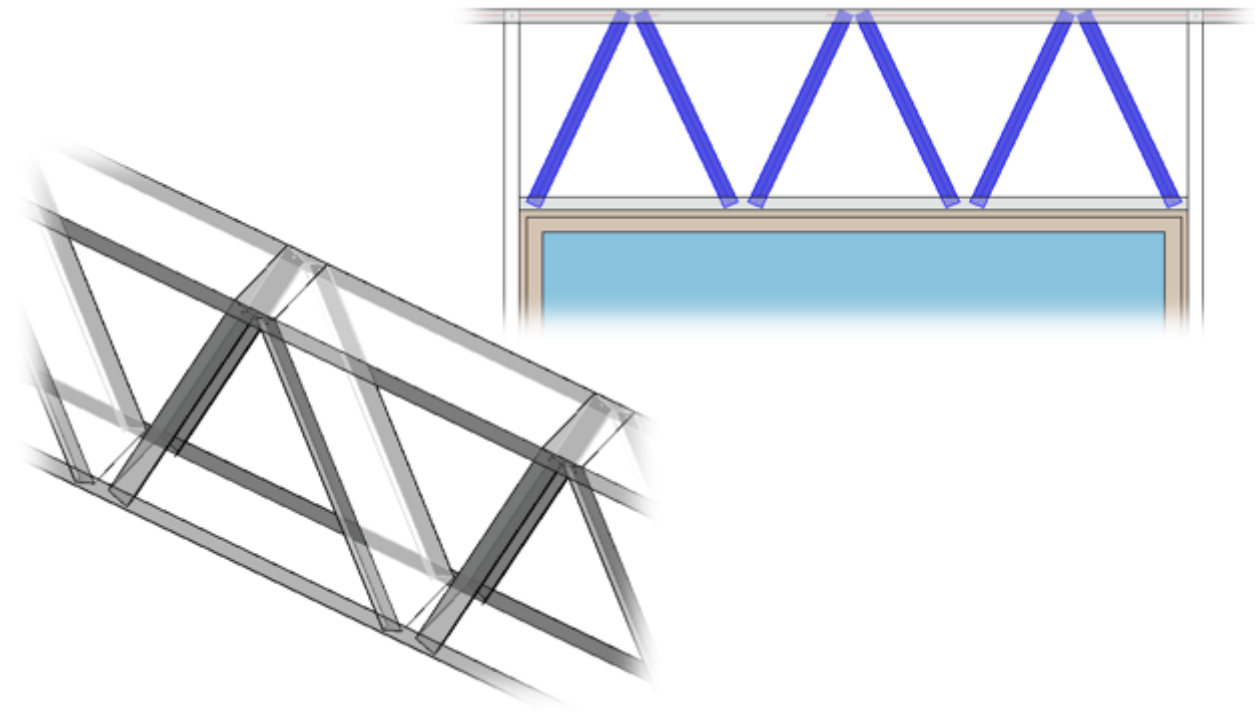
**Diagonal Placing of Top Cripple Studs/Joists** – select this option if you would like to use diagonal top cripples.

**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.

King Stud	Custom Header	Custom Top Support	Custom Sill	Trimmer
Top Cripple Trimmer	Bottom Cripple Trimmer	Cripples	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"/>			



