# Manually Editing Wall Framing

Reference Number: **KB-00571** Last Modified: **July 31, 2024** 

The information in this article applies to:



# QUESTION

I have generated wall framing in my plan and would like to make some changes to it. How is this accomplished?



# ANSWER

You can select and edit most wall framing in any 2D or 3D view.

There are a number of steps in order to manually edit wall framing which includes the following steps:

- Verifying the wall type definition
- <u>Generating wall framing automatically</u>
- Editing wall framing in plan views
- <u>Editing framing member roles</u>
- Editing the position of wall framing using Framing Reference Markers
- Editing wall framing in Wall Details

If you automatically rebuild wall framing after making manual modifications, your changes will be lost. To protect manual changes made to a wall's framing, check the "Retain Wall Framing" box located in each wall's Specification dialog.

## To verify the wall type definition

- 1. Select Build> Wall> Define Wall Types 🔤.
- 2. Using the drop-down in the top left corner of the **Wall Type Definitions** dialog, select a wall type used in the plan and verify that the Main Layer, which should typically have a framing material applied, has the **Framing** box checked under the Material Layer section. If it does not, adjust the wall accordingly. Repeat this process for each wall type in use.

In legacy versions, a Material Layer section was not available. Instead, verify that the Main Layer has a framing material applied, such as Fir Stud 24" OC.

Wall Type Definitions														×
Siding-6	~	New	Сору	Rena	me D	elete D	elete All Unus	ed			<del>(</del> च -	20	ð [	2 0
Wall Layers														
Layer # Line Color Line Sty	yle Weight	Material	1	Pattern	Texture	Fill	Thickness	Extension	Display Layer	Insert Above				
Exterior Layers					1		1.01	<b></b>	0.4	Insert Below				
	- 1	Lap Siding	3				1/2*	0.	Default	Move Up				
2	- 1	Housewra	p				0"	0"	Default	Move Down				
3	- 1	OSB-Hrz				000	7/16"	0"	Default	Delete				
Main Layers	- 25	Fir Framin	~2				5.1/2*		Default	Total Thickness:				
Interior Lavers	35	Thi riann	las [				5172		Default	6 15/16"				
5	- 1	Drywall	Γ		No Texture	1000	1/2"		Default					
Material Properties	er Dropertier	Wall D	-		,		-							
Framing Use Default Frami Place Framing Or	ing Material n Display Lay	er												
Type:	Lumber	$\sim$		H	lorizontal Fra	ming								
Stud Spacing:	4"	Ÿ	On Center		Bottom Ru	n Elevation:	0''							
Stud Width:	3/4"	Ÿ			Max Gi	t Length:	144"	Ÿ						
Top Plate Count:	2	0/												
Top Plate Width:	1 1/2"	2												
Bottom Plate Count:	1	2												
Bottom Plate Width:	1 1/2"	2												
Max Plate Length	: 144*	Ÿ												
Auto Detail as Insulation Air Gap														
Number Style										OK	c	ancel		Help

3. Make any other desired framing changes, such as to the **Type**, **Spacing**, **Width**, and **Plate** fields, then click **OK**.

#### To generate wall framing automatically

1. First, navigate to **Edit> Default Settings**  $\bigcup$ , expand the **Framing** category, select **General Framing**, then click **Edit**.

In X15 and prior versions, select the **Framing** category, then click **Edit** instead.

2. On the WALL panel of the **Framing Defaults** dialog that opens, adjust your wall framing properties, such as **Wall Corners** and **Wall Intersections**, **Plates**, **Blocking**, etc.

**Note:** To adjust framing properties for openings, such as windows and doors, please see the <u>Related Articles</u> section below.

Framing Defa	ults	×							
Foundation	Wall								
1st Wall	Stud Thickness:	1 1/2"							
Openings	Stud Spacing:	16" On Center							
Fireplaces Beams Posts	Stud Depth:	Determined By Wall Layer							
	Allow Automatic Balloon Framing								
Roof	Wall Connections								
Plan Display	Wall Corners:	Standard $\checkmark$							
Materials	Wall Intersections:	Standard $\checkmark$							
	Plates								
	Top Plate Count:	2							
	Top Plate Thickness:	1 1/2"							
	Bottom Plate Count:	1							
	Bottom Plate Thickness	: 11/2"							
	Max Plate Length:	144"							
	Blocking								
	-	Exterior Interior							
		Stagger Blocking							
	Girts								
	Max Girt Length:	144"							
	Miter Ends of Angled Walls —								
	2	Miter Plate Ends							
		☑ Rotate End Studs							
		Horizontal Frame Through							
	Wall Detail Views								
	Fill Style:	Fill Style							
Number Style		OK Cancel Help							

- 3. Click **OK** and **Done** to close the dialogs and confirm the changes.
- 4. Select Build> Framing> Build Framing 🖗
- 5. In the **Build Framing** dialog, check the **Walls** box under the **Build Framing Once** section, then click **OK**.

→ Build Framing ×
Framing Defaults
Automatically Rebuild Framing
Floors
Ceilings
Custom Ceilings
Walls
Roofs
Build Framing Once
Floors
Ceilings
Custom Ceilings
Walls Roofs
OK Cancel Help

In X15 and prior versions, check the **Build Wall Framing** box located on the WALL panel, then click **OK**.

Build Framin	g		×
Foundation 1st Wall Openings Fireplaces Beams Posts Roof Trusses	Automatically Build Wa Wall Stud Thickness: Stud Spacing: Stud Depth:	II Framing ng 1 1/2" 16" On Center Determined By Wall Layer	
Plan Display Materials	Allow Automatic	: Balloon Framing	

To edit wall framing in plan views

In your desired plan view, select Tools> Layer Settings> Display Options or access the Active Layer Display Options of side window

2. Locate the "Framing, Headers" and "Framing, Wall" layers, place a check in the **Disp** column or **Display** checkbox for both, then click **OK**.

**Note:** If you have specified a different layer to generate wall framing onto, enable the display of that layer instead. Please refer to the "Adjusting the Display of Wall Layers" resource in the <u>Related Articles</u> section to learn more.

Layer Display Options							_		×
Layer Sets									
Working Laver Set		$\sim$	Copy	Set	□ Modi	fv All Laver !	Sets		
						.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Reset Layer Names Delete U	nused l	.ayers							
Properties for Selected Layer Set									
Name Filter:					1				
Name	Used	Disp	Lock	Color	Weight	Line Style	Text Style		
Framing, Headers		$\checkmark$			25		Default Tex	t Style	
Framing, Labels		✓,			25		Default Lak	oel Style	- 1
Framing, Posts	Y	$\checkmark$			25		Default Tex	t Style	-
Framing, Rim Joists	+				25		Default Tex	t Style	-
Framing, Roof Beams	۳.				25		Default Tex	t Style	
Framing, Roof Blocking	S				25		Default Tex	t Style	
Framing, Roof Rafters	S				25		Default Tex	t Style	
Framing, Roof Truss Labels					25		Default Lak	oel Style	
Framing, Roof Trusses	S				25		Default Tex	t Style	_
Framing, Sill Plates	+				25		Default Tex	t Style	
Framing, Wall		$\checkmark$			25		Default Tex	t Style	~
Select All New 0	Сору		Merg	e	Delete				
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					OK	C	ancel	Help	

If the wall or opening is selected first when attempting to select a framing member, click the Select Next Object edit button or press the Tab key on your keyboard as many times as needed until the framing member is selected.



4. Once selected, the framing member can be edited using its edit handles, edit toolbar buttons, or by opening its **Framing Specification** dialog.

**Note:** Certain framing members, such as wall plates, may not be visible in plan views. Instead, you can edit these framing members in wall detail views, which are discussed <u>below</u>.

## To edit framing member roles\*

\*Available in X14 and newer versions.

To control the member role of a framing member, select it using the Select Objects tool, then click on Open Object .

2. On the **General** panel of the **Framing Specification** dialog, change the **Role** to match your needs, then click **OK**.

Changing the role of a framing member can assist you when creating framing or custom schedules.

Framing Specification	on (King Stud)	×
General	Wall Framing Opti	ons
Line Style Fill Style	Width:	5 1/2"
Materials	Thickness:	1 1/2" Match Width
Label	Role:	Use Automatic (King Stud) 🗸
Components Object Information	Type:	Use Automatic (King Stud)
Schedule	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Bottom Cripple
		Ceiling Beam
	Rotate:	Ceiling Blocking
	Length and Angle	Ceiling Joist
	Length:	Cripple
	A note:	Deck Blocking
	Angle:	Deck Joist
	Lock:	Deck Plank
		Deck Post
	+	Deck Rim Joist
		Floor Beam
		General Framing
		Git
		Header
		King Stud
		Ladder Connection
		Ledger
		Plate
		Post
		Purlin
		Rafter
		Rafter Blocking
		Rafter Header
		Rafter Lookout
		Rafter Ridge
Number Style		OK Cancel Help

# To edit the position of wall framing using Framing Reference Markers

- 1. In a floor plan view, navigate to Build> Framing> Framing Reference Marker 🔶.
  - Framing Reference Markers can be placed anywhere, but a typical location is the corner of two exterior walls, at the exterior of their framing layer.
  - Framing Reference Markers can be placed on each level of your design to control where framing originates and choose which types of framing members reference the marker.
  - Framing Reference Markers snap to framing members and other CAD-based objects first, and then to a wall Main Layer surface or corner if possible.
  - Once placed, Framing Reference Markers can be modified just like other markers.
- 2. Click in the plan where you would like the Framing Reference Marker to be placed.



When framing is generated using a Framing Reference Marker, the first framing member of a given type snaps to this point and all other framing members are laid out from there.

- Wall and roof framing snap to the Framing Reference Marker at their centers.
- Use Stud Rollout controls in the Wall Specification dialog to manage the framing start point for walls.

3. Using the **Select Objects** tool, select all the framing that needs to be moved to the Framing Reference Marker, then click on the **Move to Framing Ref.** edit tool.



## To edit wall framing in Wall Details

- In a plan view, select a wall that you would like to modify the framing for using the Select Objects tool.
- 2. With the wall selected, click the **Open Wall Detail** address edit button to open an elevation view displaying the wall framing for the individual wall.

The Open Wall Detail edit tool will not be available unless you have previously generated wall framing using the Build Framing dialog.

Wall Details can also be accessed from the Project Browser.

- 3. Make any desired framing modifications in the view.
  - You can select and edit individual framing members such as studs, plates, headers, trimmers, and cripples using the edit handles, edit toolbar buttons, and Specification dialogs.
  - New framing members can be added by selecting an existing framing member and using the various edit tools, such as Copy/Paste .
     Transform/Replicate Object .
  - If the wall has multiple framing layers, they will display in the same view, but in separate locations, typically above/below each other.
- Once you are finished modifying the framing members, select File> Close
   View from the menu to close the Wall Detail view, and notice that any changes you made will be visible in all views that display wall framing.

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**Related Articles** 

Adjusting the Display of Wall Layers (/support/article/KB-00034/adjusting-the-display-

<u>of-wall-layers.html)</u>

- Controlling Door and Window Framing (/support/article/KB-00985/controlling-doorand-window-framing.html)
- Defining a New Wall Type (/support/article/KB-02944/defining-a-new-wall-type.html)
- Displaying Framing in a Cross Section/Elevation View (/support/article/KB-00017/displaying-framing-in-a-cross-section-elevation-view.html)
- General Framing Guidelines (/support/article/KB-00465/general-framingguidelines.html)
- Troubleshooting Wall Framing Issues (/support/article/KB-00335/troubleshootingwall-framing-issues.html)
- Using the Project Browser (/support/article/KB-03003/using-the-projectbrowser.html)



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