LINK ROOF

Modified on: Sat, 9 Jan, 2021 at 7:35 PM

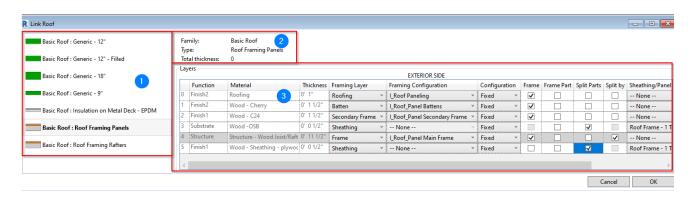
Link Roof



Link Roof – makes a link between roof type from the project and the configuration. Choose the roof type you want to link and apply framing configuration to the layers.



Dialog:

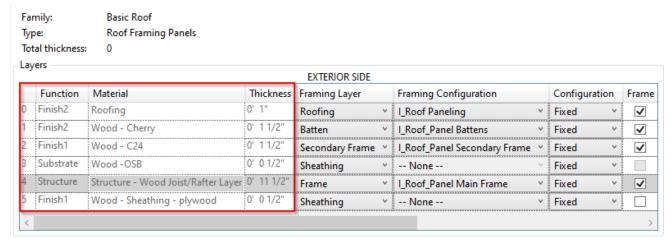


In the above dialog, you can see:

- 1. All roof types from the current project. If you select a roof from the project, it will automatically be selected in this dialog so that you can quickly apply settings.
- 2. Information of selected type.
- 3. Information of selected roof layers where you can apply settings.

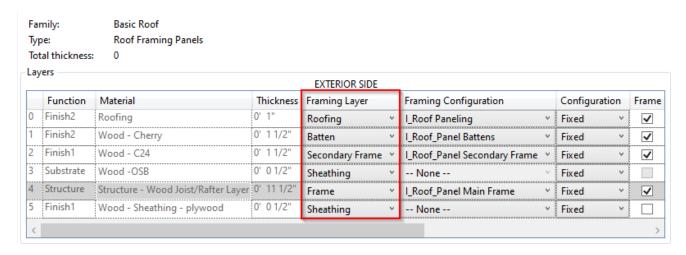
Information from selected roof type:

Note: Material is mandatory for assigning framing configuration!



Framing Layer

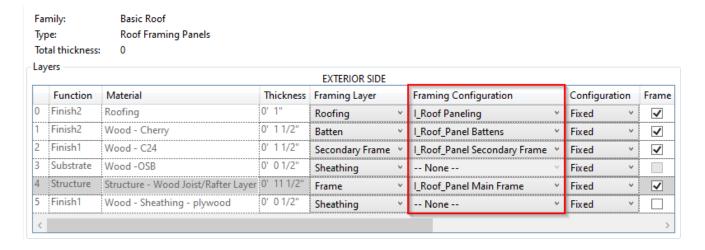
7/9/2021



Select which framing layer has to be created.

Possible options: Frame, Secondary Frame, Roofing, Battens, Paneling, and two Sheathing layers.

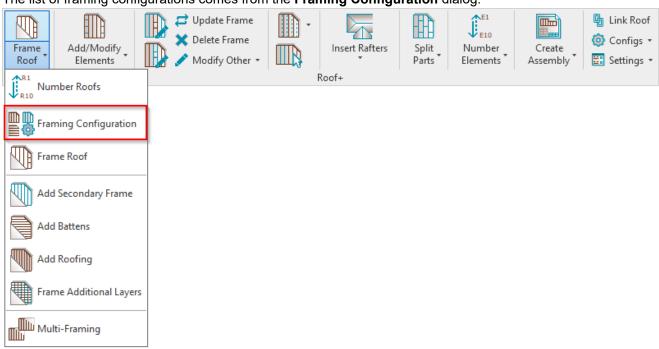
Framing Configuration



Framing Configuration – select framing configuration with the definition of all framing parameters. There are default configurations that come with **Roof+**, but you can also create your own.

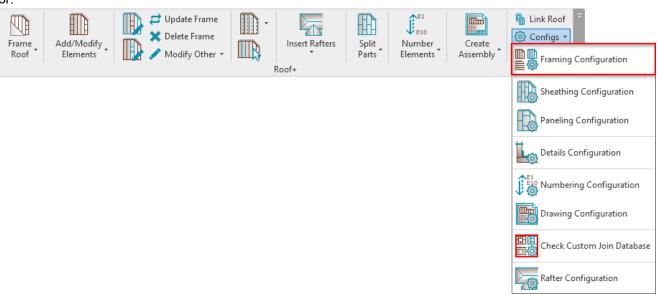
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The list of framing configurations comes from the Framing Configuration dialog:

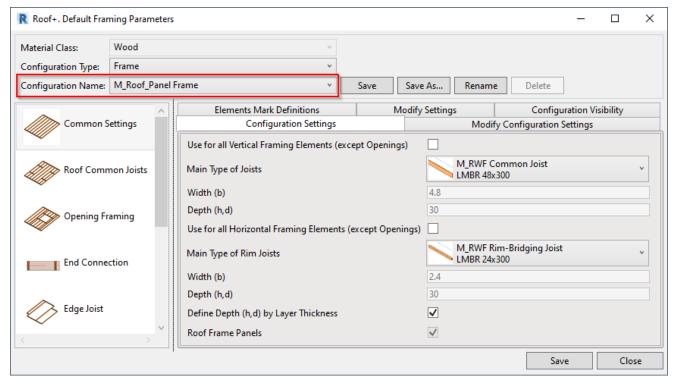




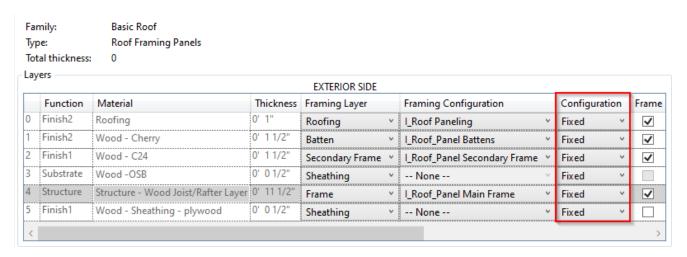
7/9/2021



The list of configurations:



Fixed or Variable Configuration

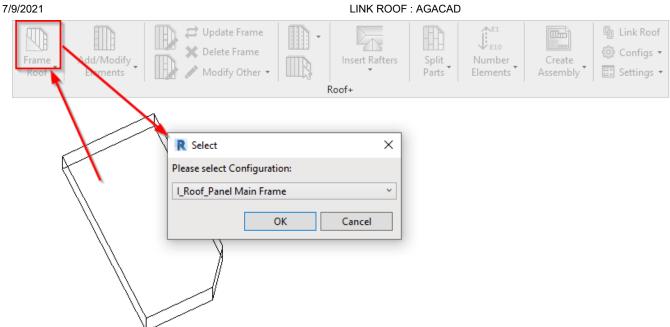


The selected configuration may be FIXED during the framing process or VARIABLE and selected during framing process.

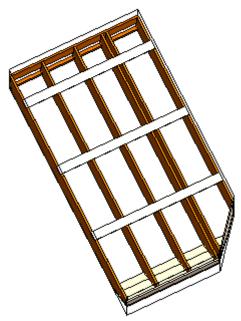
- **Fixed** after **Frame Roof** command (or when adding additional layers), the software will use the configuration that is set in the **Framing Configuration** column.
- Variable after Frame Roof command (or when adding additional layers), the software will ask you which configuration you'd like to use:

If configuration is variable, then you can select any framing configuration from the list during the framing process:





Result:



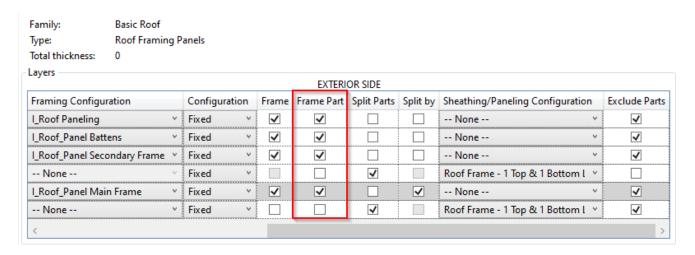
Frame

Typ Tot	al thickness	Basic Roof Roof Framing Panels : 0							
Lay	ers			EXTERIOR SIDE					
	Function	Material	Thickness	Framing Layer		Framing Configuration		Configuration	Fram
0	Finish2	Roofing	0' 1"	Roofing	٧	I_Roof Paneling	~	Fixed v	✓
1	Finish2	Wood - Cherry	0' 1 1/2"	Batten	٧	I_Roof_Panel Battens	~	Fixed v	~
2	Finish1	Wood - C24	0' 1 1/2"	Secondary Frame	v	I_Roof_Panel Secondary Frame	~	Fixed v	~
3	Substrate	Wood -OSB	0' 0 1/2"	Sheathing	v	None	V	Fixed v	
4	Structure	Structure - Wood Joist/Rafter Layer	0' 11 1/2"	Frame	v	I_Roof_Panel Main Frame	~	Fixed v	✓
5	Finish1	Wood - Sheathing - plywood	0' 0 1/2"	Sheathing	v	None	v	Fixed v	

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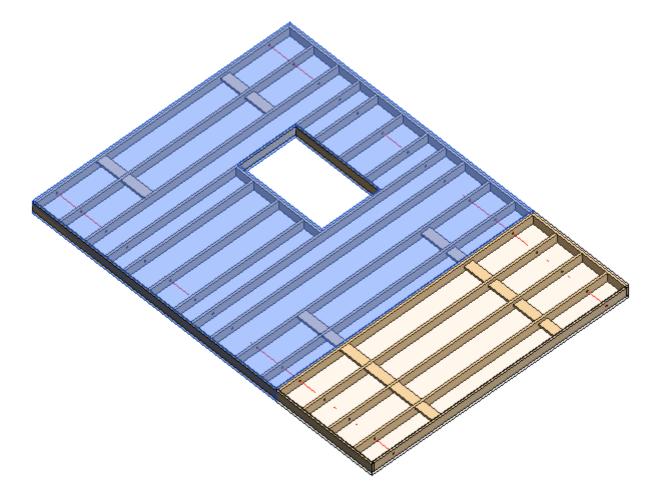
Frame – choose whether layers should be framed during the framing process or later. This is very useful if there are many layers in the roof. For example, there might be two batten layers, but perhaps you only want to frame one of them.

Frame Part



Frame Part – frames separate parts, not the whole roof layer.

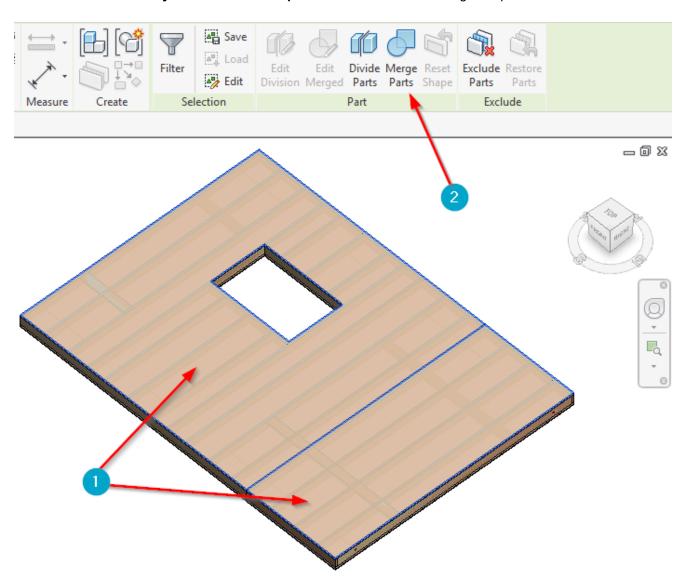
When framing a prefabricated roof panel in Revit, the **Frame Part** function is useful when you have parts of the roof that do not belong to the prefabricated panel, e.g., roofing that will be built in place. Here's a workflow showing how you can frame the parts.



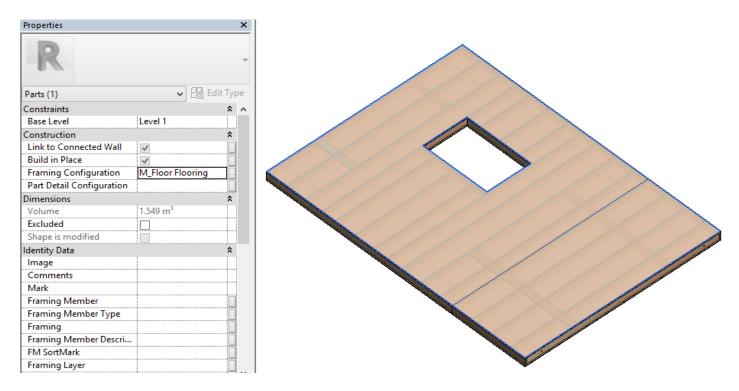
In the above picture, there are two roof panels framed and the roofing needs to be continuous.

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1. Turn on **Parts Visibility** in Revit's **View Properties**. Then select and merge the parts:

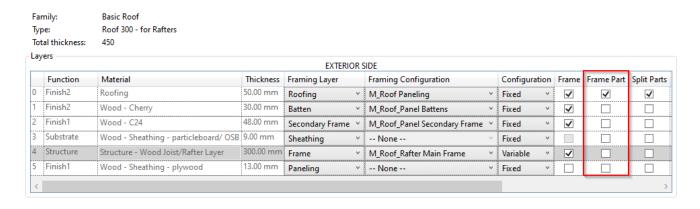


You can also write a framing configuration name for that part in the **Framing Configuration** parameter:



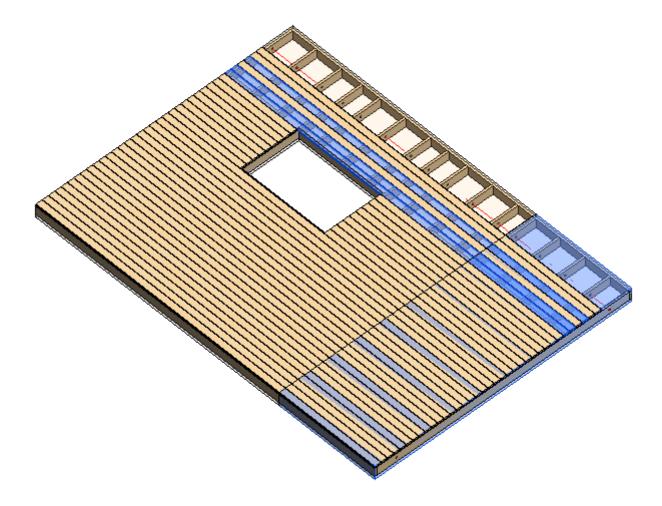
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2. In the Link Roof dialog, tick Frame Parts for that layer:



3. Going back to the original view, select the part and use Add Roofing.

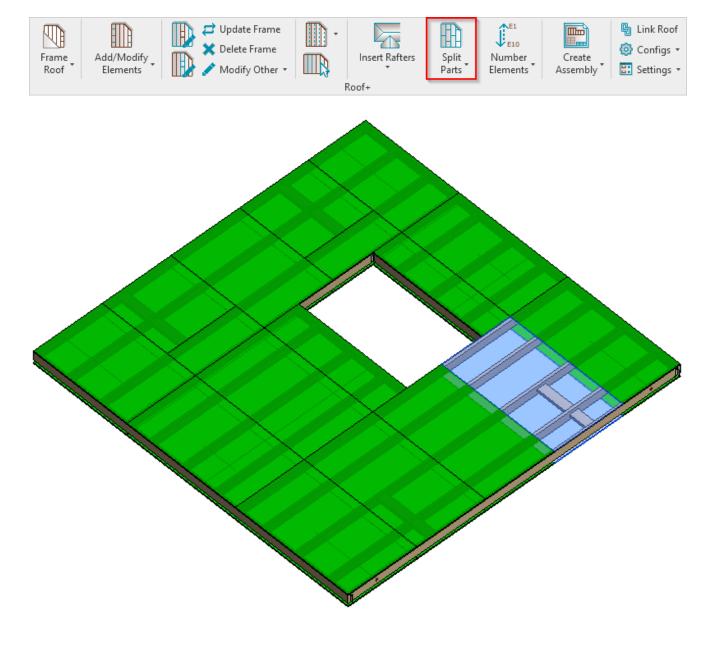
As a result, you'll have split roof panels (with the main frame, battens, and so on) and a separate roofing layer that is not split or can be split differently:



Split Parts

Basic Roof Family: Roof 300 - for Rafters Туре: Total thickness: 450 Layers EXTERIOR SIDE Function Material Thickness Framing Layer Framing Configuration Configuration Frame Frame Part | Split Parts Finish2 Roofing 50.00 mm Roofing M_Roof Paneling Fixed ✓ **~** Finish2 Wood - Cherry 30.00 mm M_Roof_Panel Battens **~** Batten Fixed ✓ 48.00 mm Finish1 Wood - C24 Secondary Frame v M_Roof_Panel Secondary Frame V **~ ~** Fixed Wood - Sheathing - particleboard/ OSB 9.00 mm Substrate Sheathing Fixed 300.00 mm 4 Structure Structure - Wood Joist/Rafter Layer Frame M_Roof_Rafter Main Frame Variable ٧ **~ ✓** 13.00 mm 5 Finish1 Wood - Sheathing - plywood Paneling -- None --Fixed v

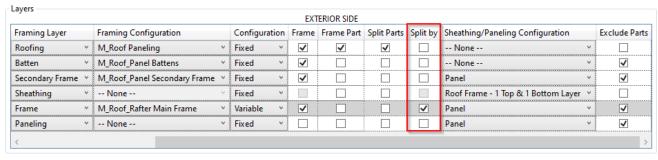
Split Parts – select if parts need to be split after using **Split Parts** function or should be split later. This is very useful if there are many layers in the roof, for example, two sheathing/paneling layers and you only want to split one.



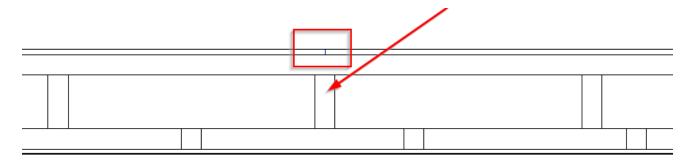
Split by

Family: Basic Roof
Type: Roof 300 - for Rafters

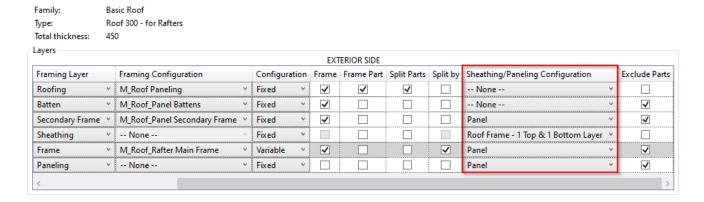
Total thickness: 450



Split by – select framing layer to be used for splitting sheathing/paneling.

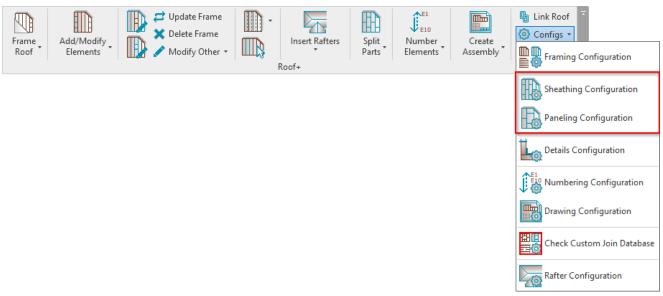


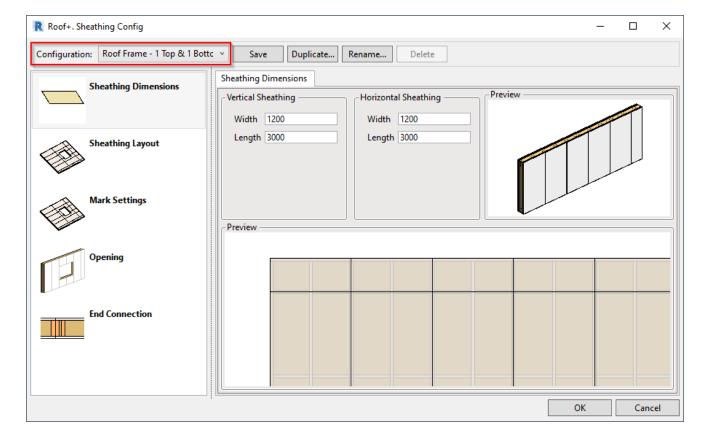
Sheathing/Paneling Configuration



Sheathing/Paneling Configuration – select sheathing/paneling configuration with definition of all sheathing/paneling parameters. There are default configurations that come with **Roof+**, but you can also create your own.

The list of sheathing/paneling configurations comes from here:





Exclude Parts

Family: Basic Roof
Type: Roof 300 - for Rafters
Total thickness: 450



Exclude Parts – select the parts that need to be excluded from the roof. You can exclude parts from the project so that they will not be included in material takeoffs, schedules, and other lists or calculations.

