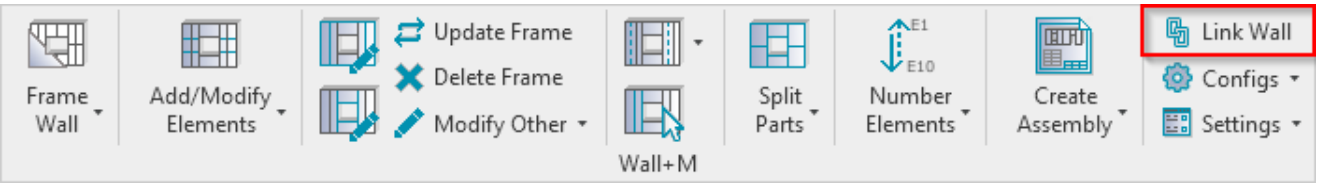
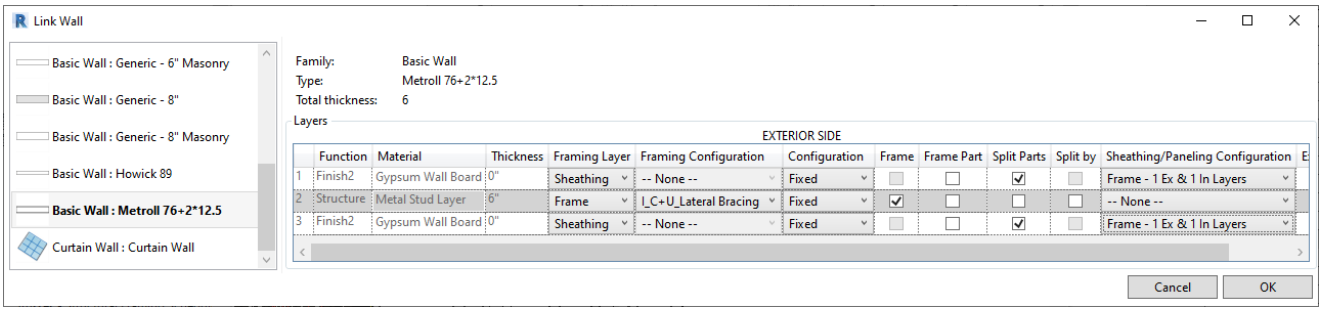
LINK WALL

Modified on: Wed, 9 Dec, 2020 at 8:00 PM

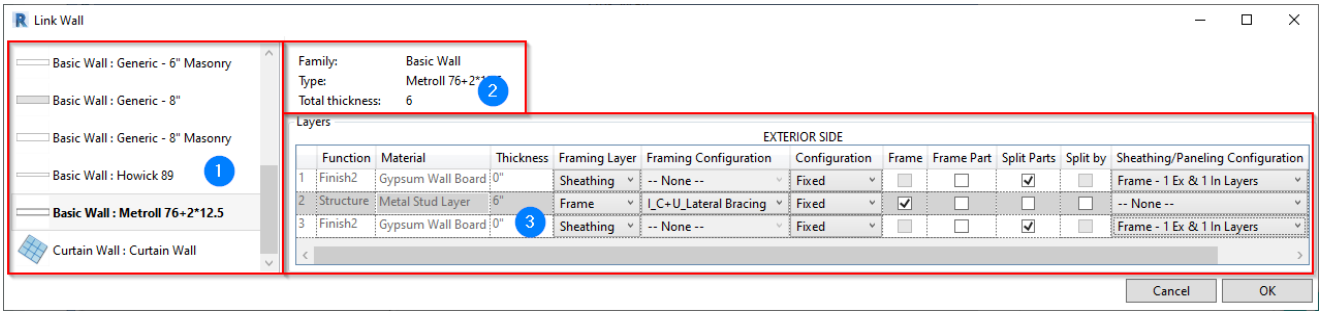
Link Wall



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

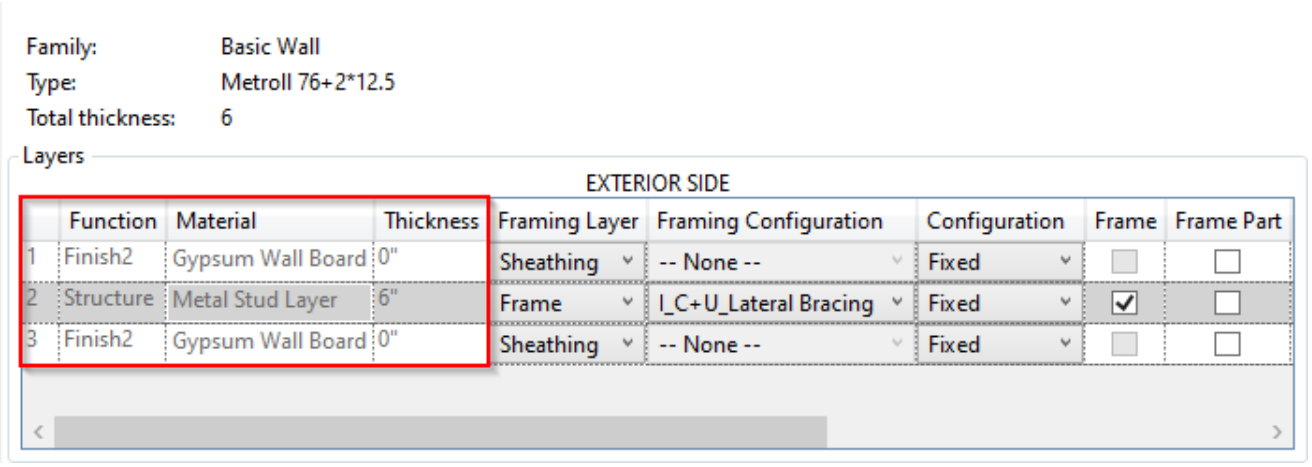


Dialog:

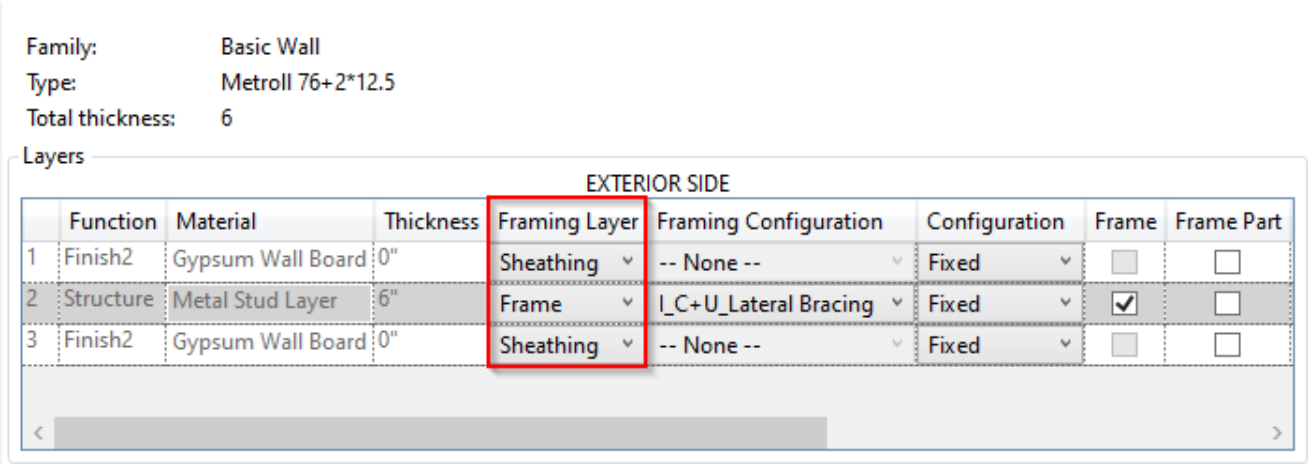


In the above dialog, you can see:
1. All wall types from the current project. If you select a wall from the project, it will automatically be selected in this dialog so that you could quickly apply settings.
2. Information of selected type.
3. Information of selected wall layers where you can apply settings.

Information from selected wall type:
Note: Material is mandatory for assigning framing configuration!

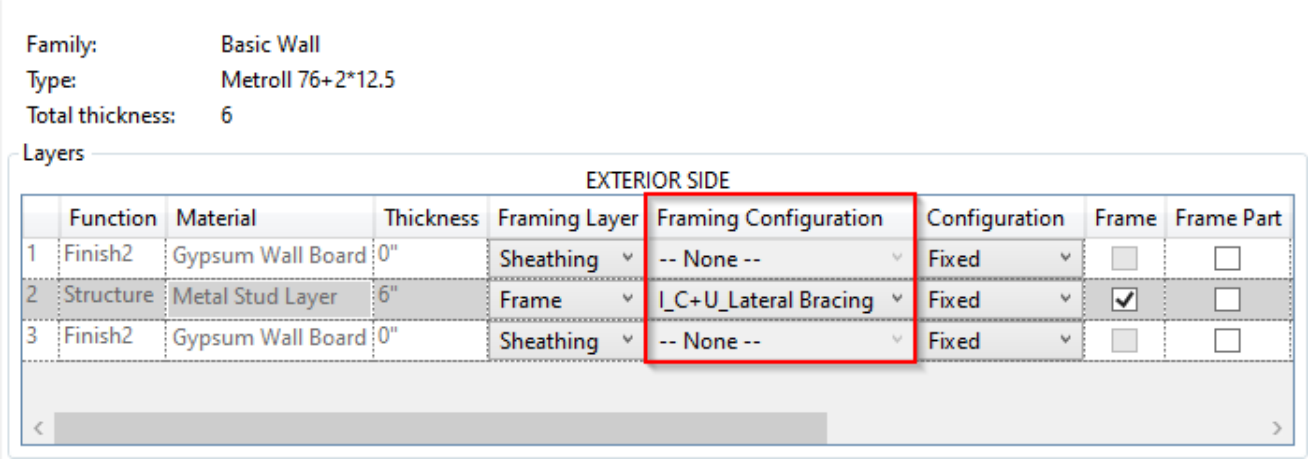


Framing Layer



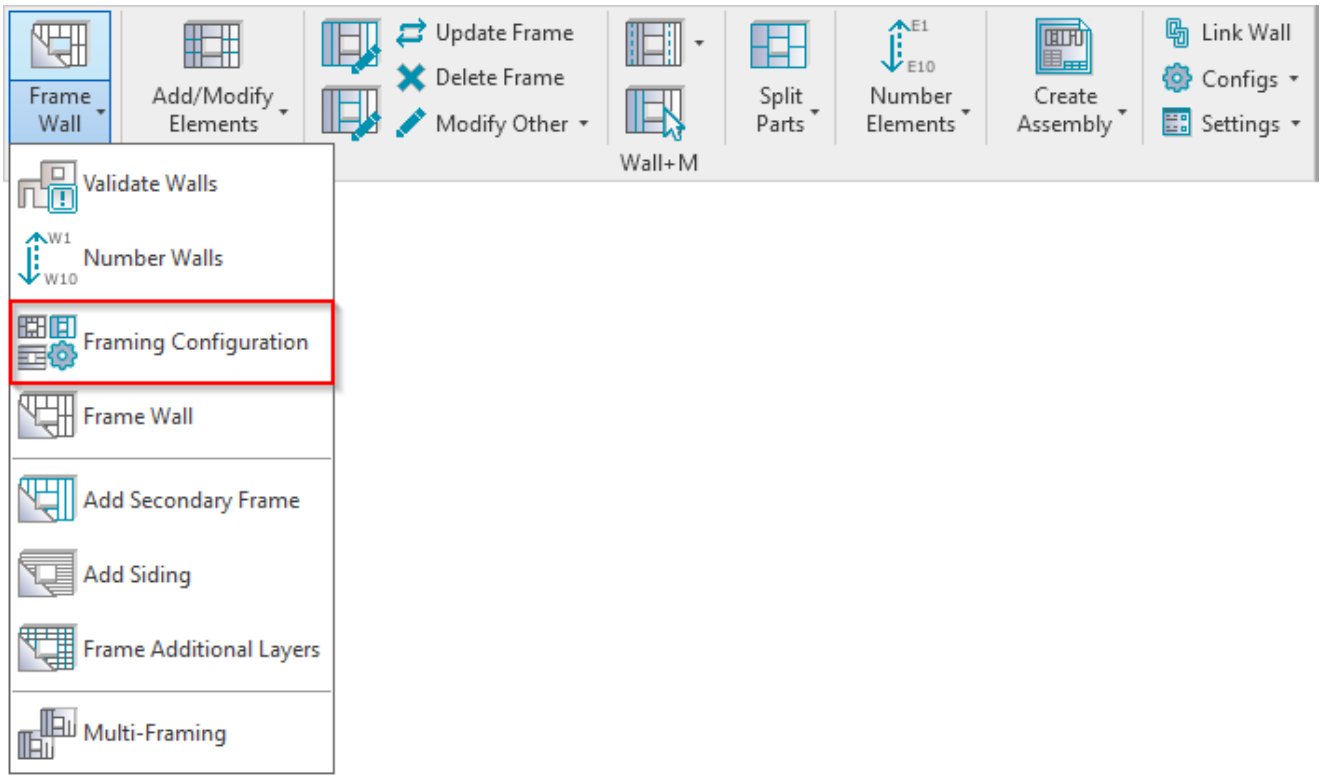
Select which framing layer has to be created.
Possible options: **Frame**, **Secondary Frame**, **Vertical/Horizontal Sidings**, **Paneling**, and two **Sheathing** layers.

Framing Configuration

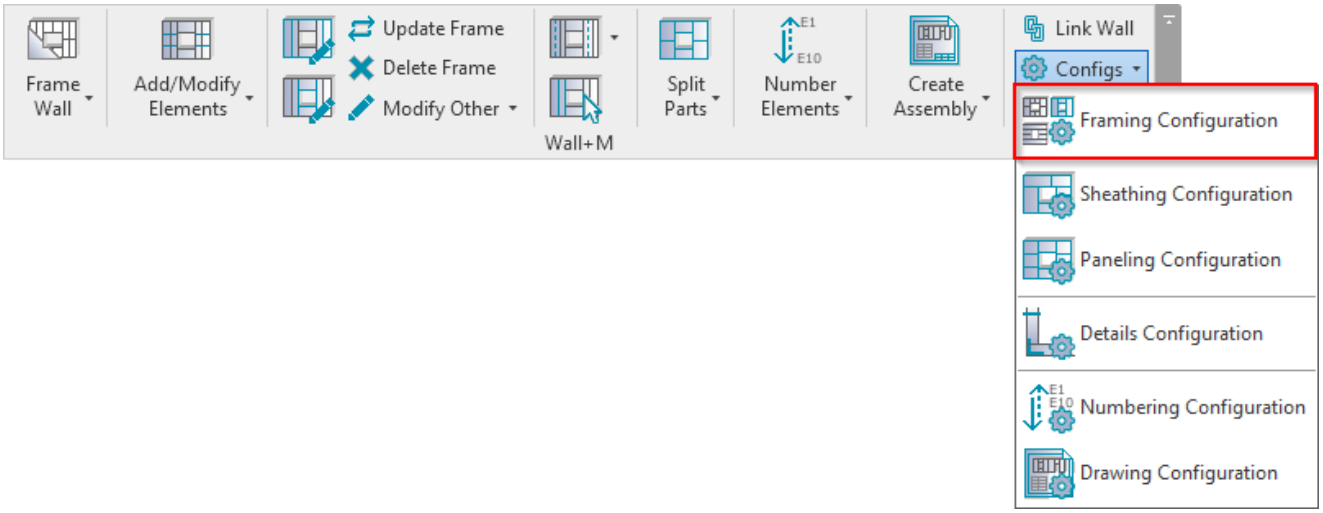


Framing Configuration – select framing configuration with the definition of all framing parameters. There are default configurations that come with **Wall+M**, but you can also create your own.

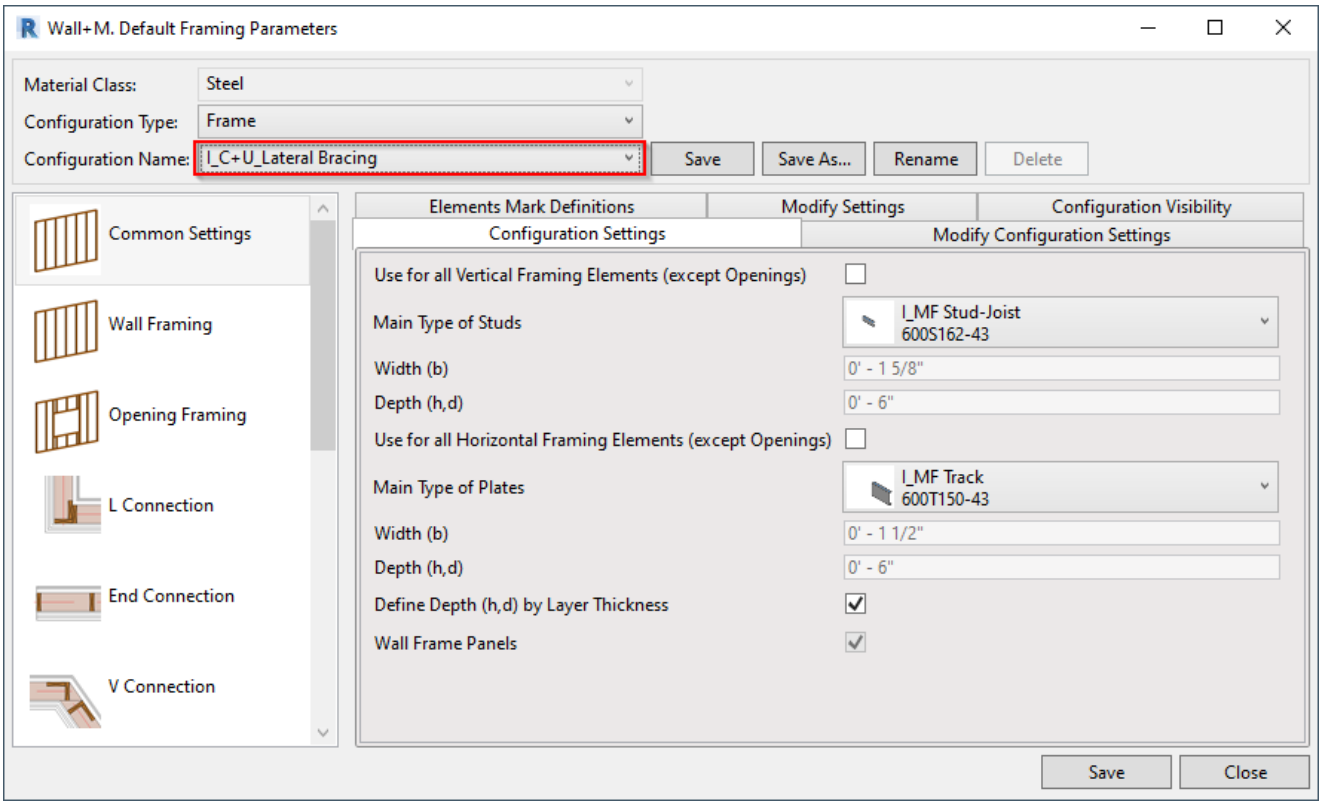
The list of framing configurations comes from the **Framing Configuration** dialog:



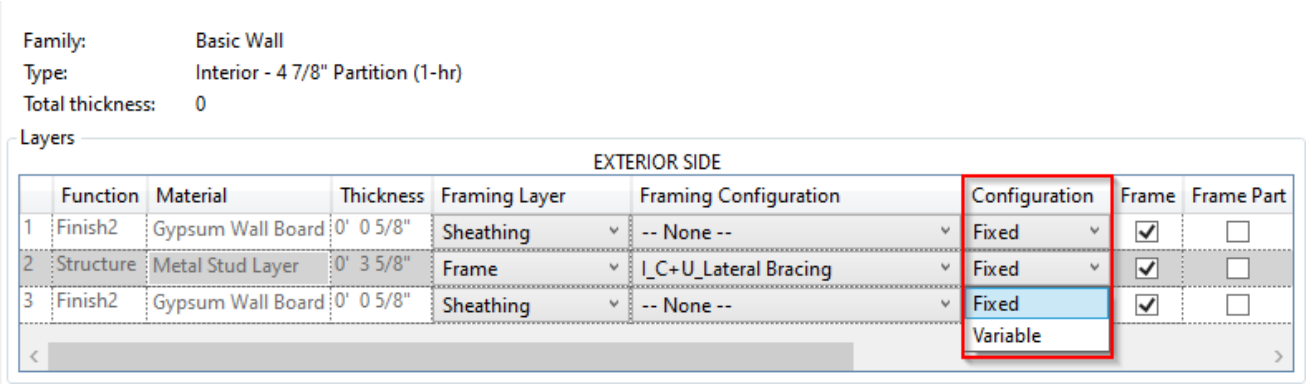
or:



The list of configurations:



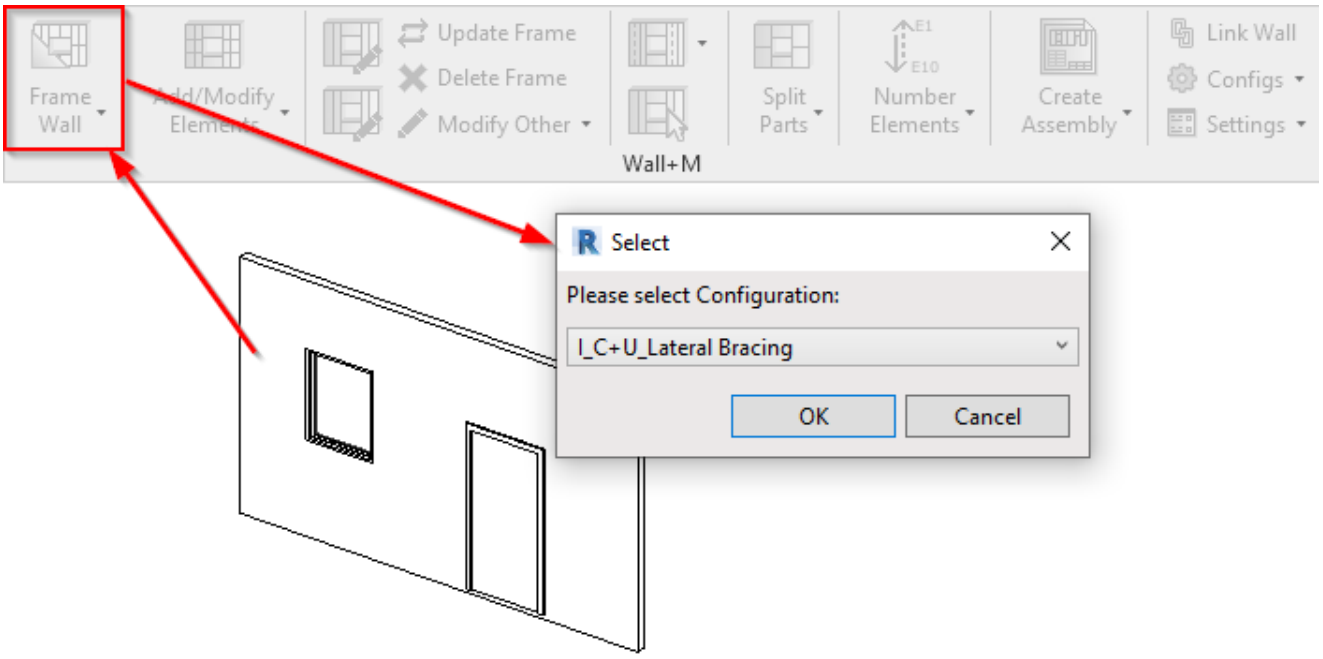
Fixed or Variable Configuration



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

- **Fixed** – after **Frame Wall** command (or when adding additional layers), the software will use the configuration that is set in the **Framing Configuration** column.
- **Variable** – after **Frame Wall** 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:



Frame

Family: Basic Wall
Type: Metroll 76+2*12.5
Total thickness: 6

Layers

EXTERIOR SIDE

	Function	Material	Thickness	Framing Layer	Framing Configuration	Configuration	Frame	Frame Part
1	Finish2	Gypsum Wall Board	0"	Sheathing	-- None --	Fixed	☐	☐
2	Structure	Metal Stud Layer	6"	Frame	I_C+U_Lateral Bracing	Fixed	☑	☐
3	Finish2	Gypsum Wall Board	0"	Sheathing	-- None --	Fixed	☐	☐

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

Frame Part

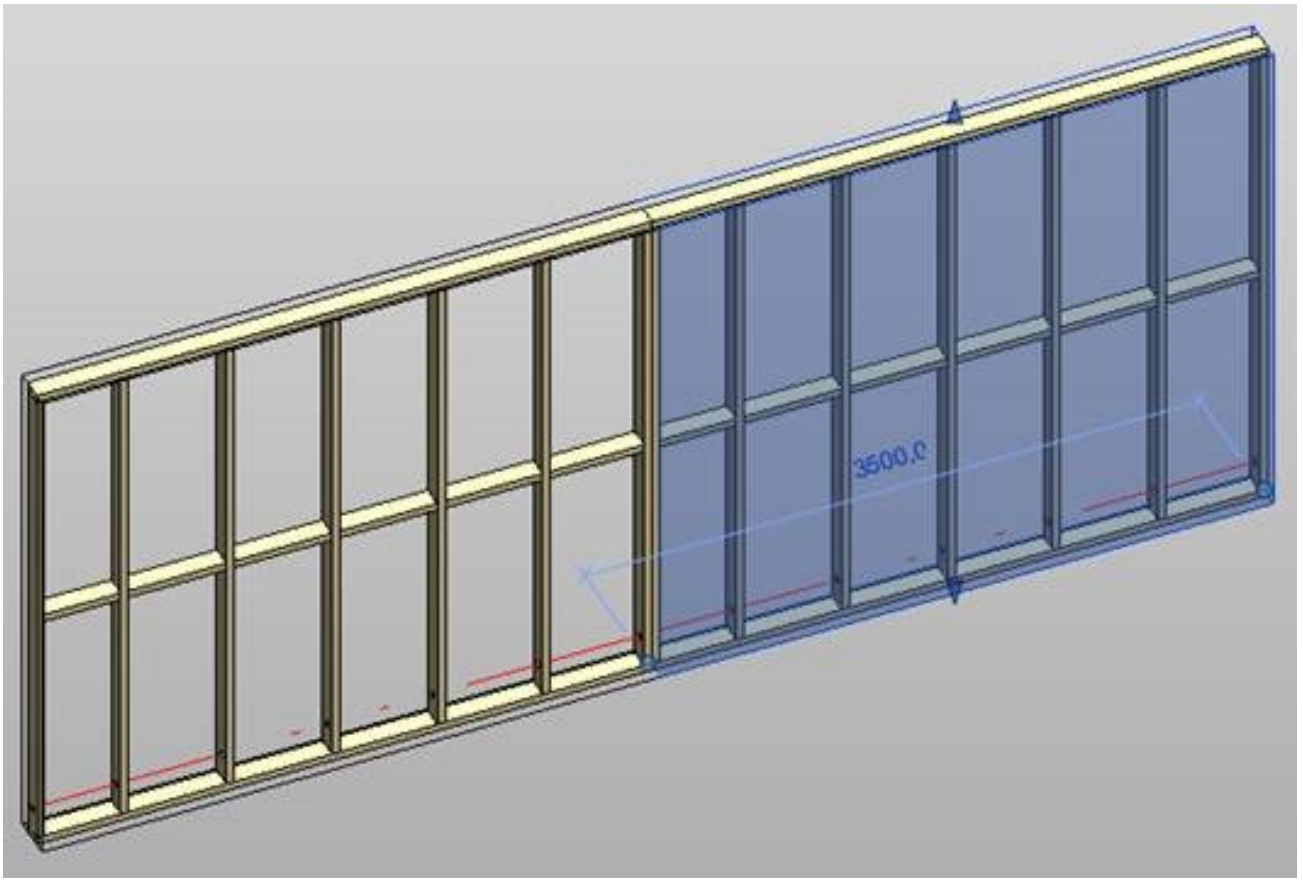
Family: Basic Wall
Type: Ext 1HorSiding - HS22-VN45-FR-SFR45-2SH12
Total thickness: 255
Layers

EXTERIOR SIDE

	Function	Material	Thickness	Framing Layer	Framing Configuration	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts
0	Finish2	by Category	0 mm	None	-- None --	☑	☐	☐	☐	-- None --	☑
1	Finish2	Wood Horizontal Siding	22 mm	Horizontal Siding	Horizontal Siding	☑	☑	☐	☐	-- None --	☑
2	Finish1	Wood Vertical Nailers	45 mm	Vertical Nailer	Vertical Nailer	☑	☐	☐	☐	-- None --	☑
3	Structure	Wood	120 mm	Frame	Frame	☑	☐	☐	☐	-- None --	☑
4	Substrate	Wood Secondary Frame	45 mm	Secondary Frame	Secondary Frame	☑	☐	☐	☐	-- None --	☑
5	Finish1	Wood Sheathing, Chipboar	12 mm	Sheathing	-- None --	☐	☐	☑	☐	Frame - 1 Ex & 1 In Layers	☐
6	Finish2	Wood Sheathing, Chipboar	12 mm	Sheathing II	-- None --	☐	☐	☑	☐	Frame - 1 Ex & 1 In Layers	☐

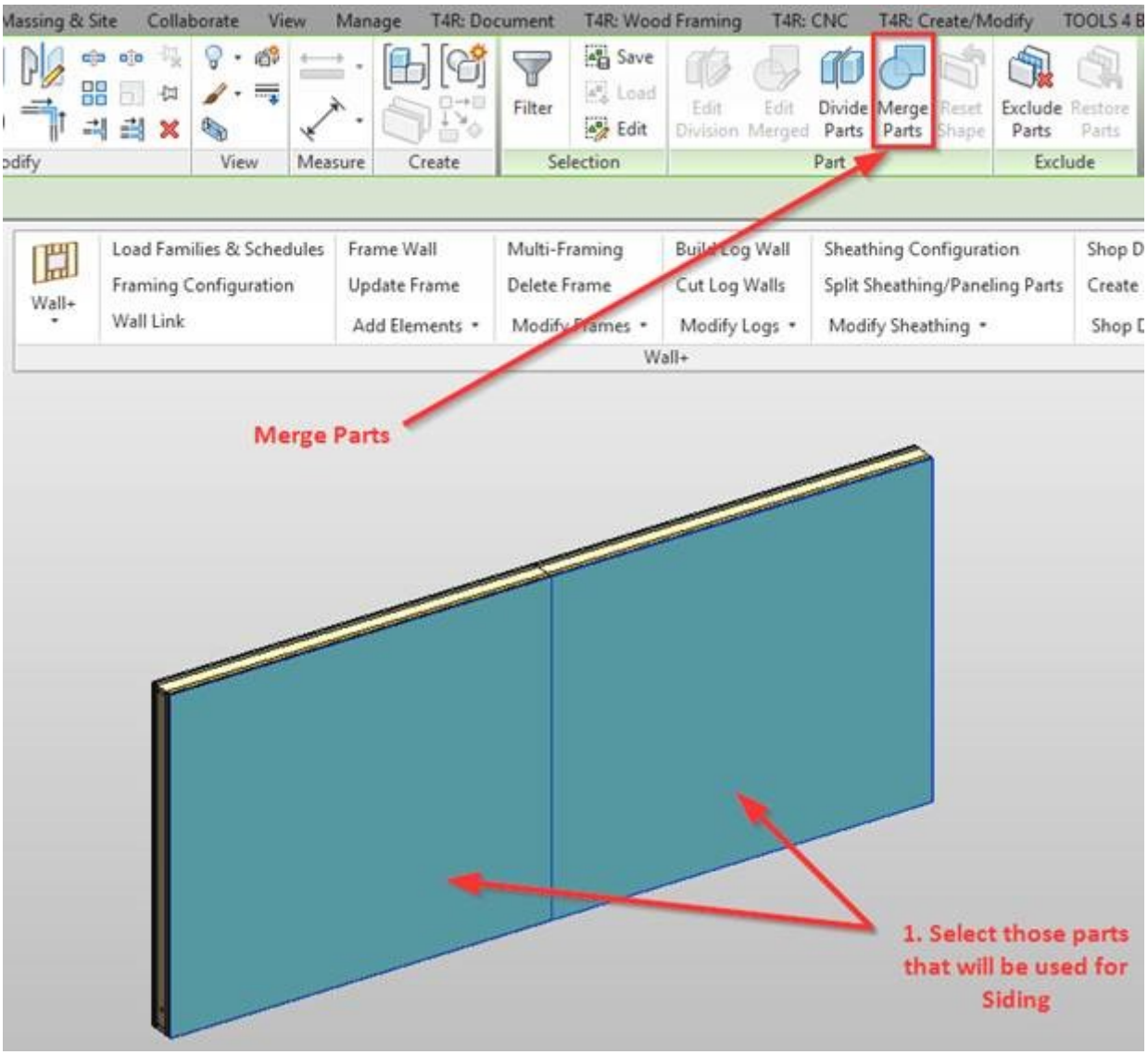
Frame Part – frames separate parts, not the whole wall layer.

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

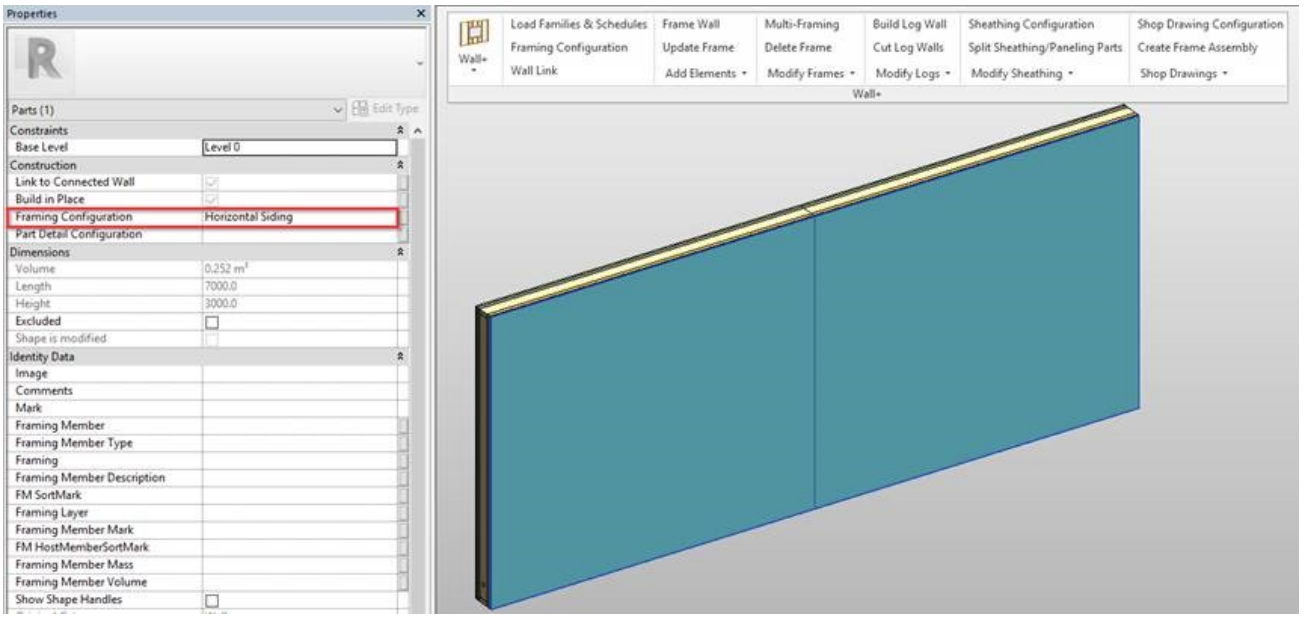


In the previous picture, there are two wall panels framed and the siding needs to be continuous.

1. Turn on **Parts Visibility** in Revit's **View Properties**, and modify (as needed) the part that will be used for siding. Then select and merge the parts:



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



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

Family: Basic Wall
Type: Ext 1HorSiding - HS22-VN45-FR-SFR45-2SH12
Total thickness: 255

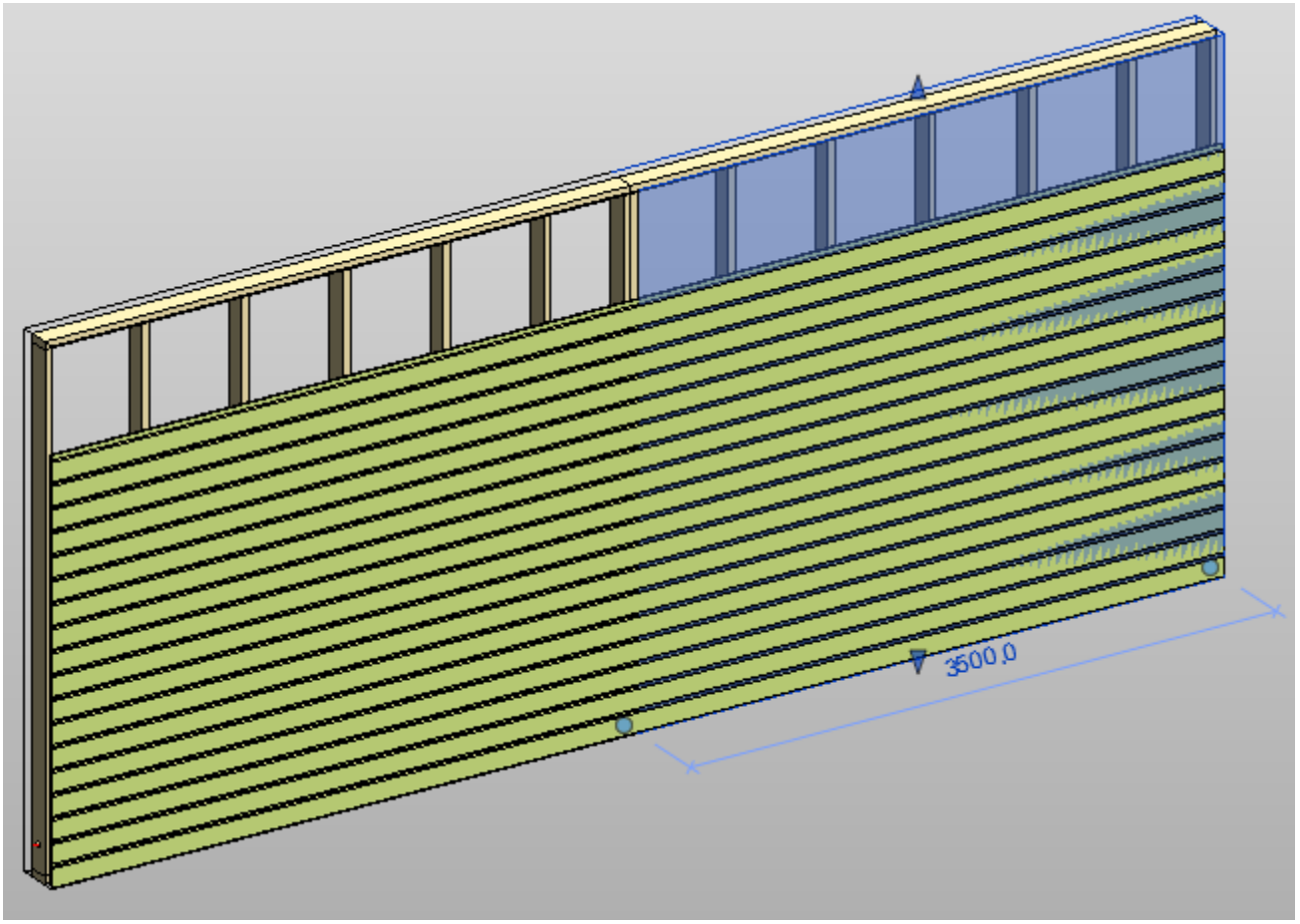
Layers

EXTERIOR SIDE

	Function	Material	Thickness	Framing Layer	Framing Configuration	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts
0	Finish2	by Category	0 mm	None	-- None --	☑	☐	☐	☐	-- None --	☑
1	Finish2	Wood Horizontal Siding	22 mm	Horizontal Siding	Horizontal Siding	☑	☑	☐	☐	-- None --	☑
2	Finish1	Wood Vertical Nailers	45 mm	Vertical Nailer	Vertical Nailer	☑	☐	☐	☐	-- None --	☑
3	Structure	Wood	120 mm	Frame	Frame	☑	☐	☐	☐	-- None --	☑
4	Substrate	Wood Secondary Frame	45 mm	Secondary Frame	Secondary Frame	☑	☐	☐	☐	-- None --	☑
5	Finish1	Wood Sheathing, Chipboar	12 mm	Sheathing	-- None --	☐	☐	☑	☐	Frame - 1 Ex & 1 In Layers	☐
6	Finish2	Wood Sheathing, Chipboar	12 mm	Sheathing II	-- None --	☐	☐	☑	☐	Frame - 1 Ex & 1 In Layers	☐

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

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



Split Parts

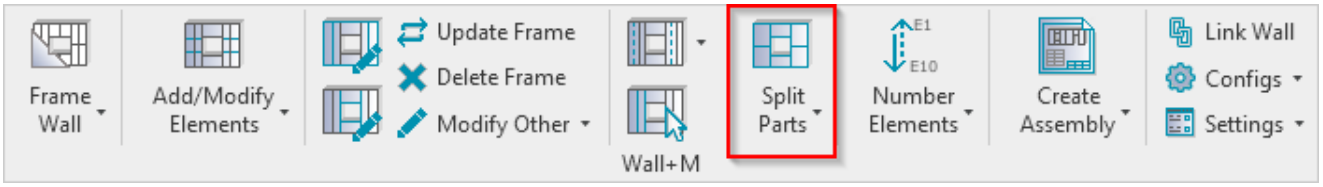
Family: Basic Wall
Type: Ext - 16+102+16 C+C
Total thickness: 135

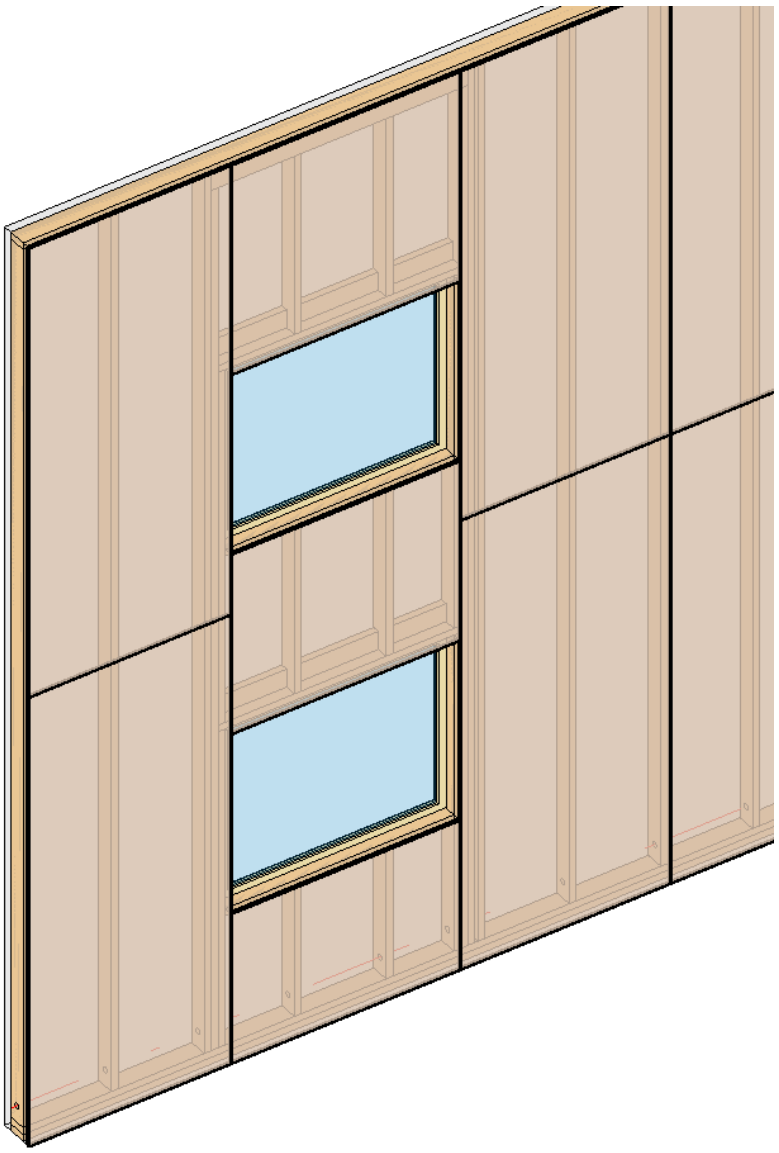
Layers

EXTERIOR SIDE

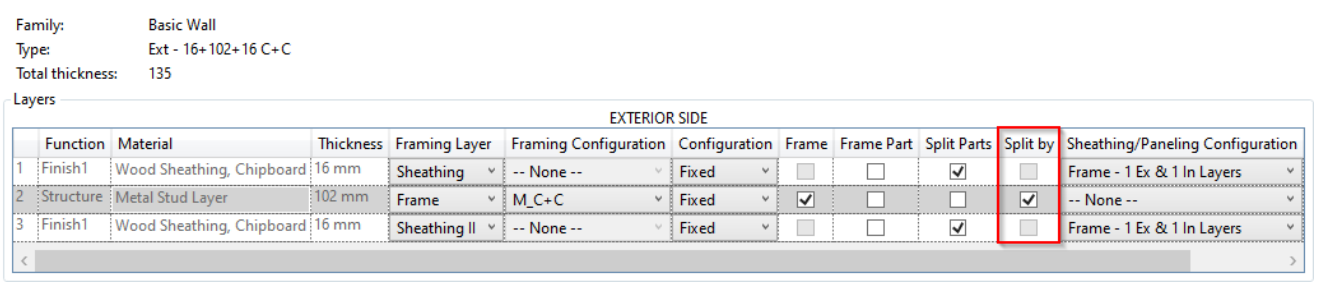
	Function	Material	Thickness	Framing Layer	Framing Configuration	Configuration	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration
1	Finish1	Wood Sheathing, Chipboard	16 mm	Sheathing	-- None --	Fixed	☐	☐	☑	☐	Frame - 1 Ex & 1 In Layers
2	Structure	Metal Stud Layer	102 mm	Frame	M_C+C	Fixed	☑	☐	☐	☑	-- None --
3	Finish1	Wood Sheathing, Chipboard	16 mm	Sheathing II	-- None --	Fixed	☐	☐	☑	☐	Frame - 1 Ex & 1 In Layers

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 wall, for example, two sheathing/paneling layers and you only want to split one.

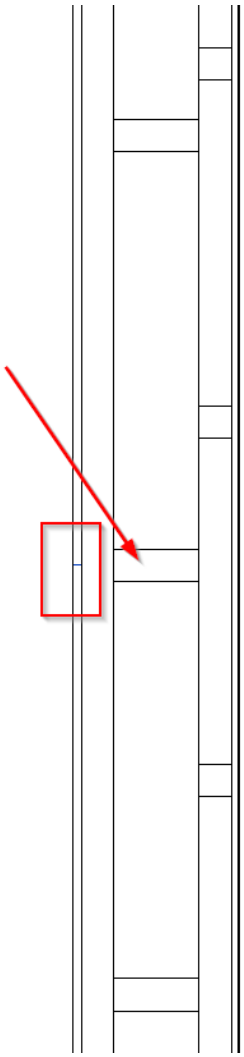




Split by



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



Sheathing/Paneling Configuration

Family: Basic Wall
Type: Ext - 16+102+16 C+C
Total thickness: 135

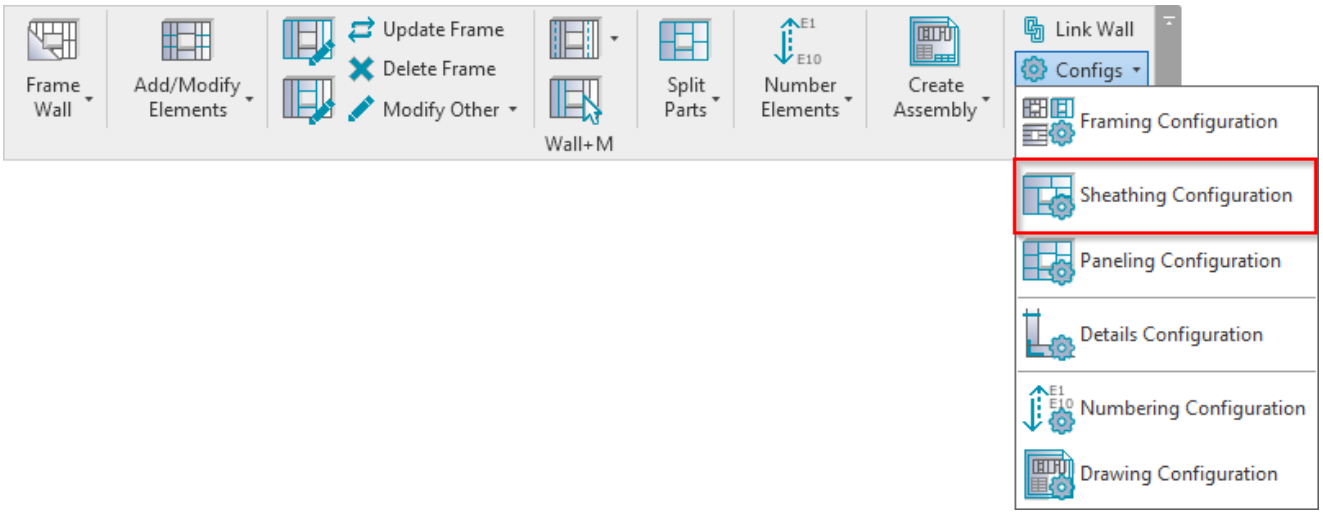
Layers

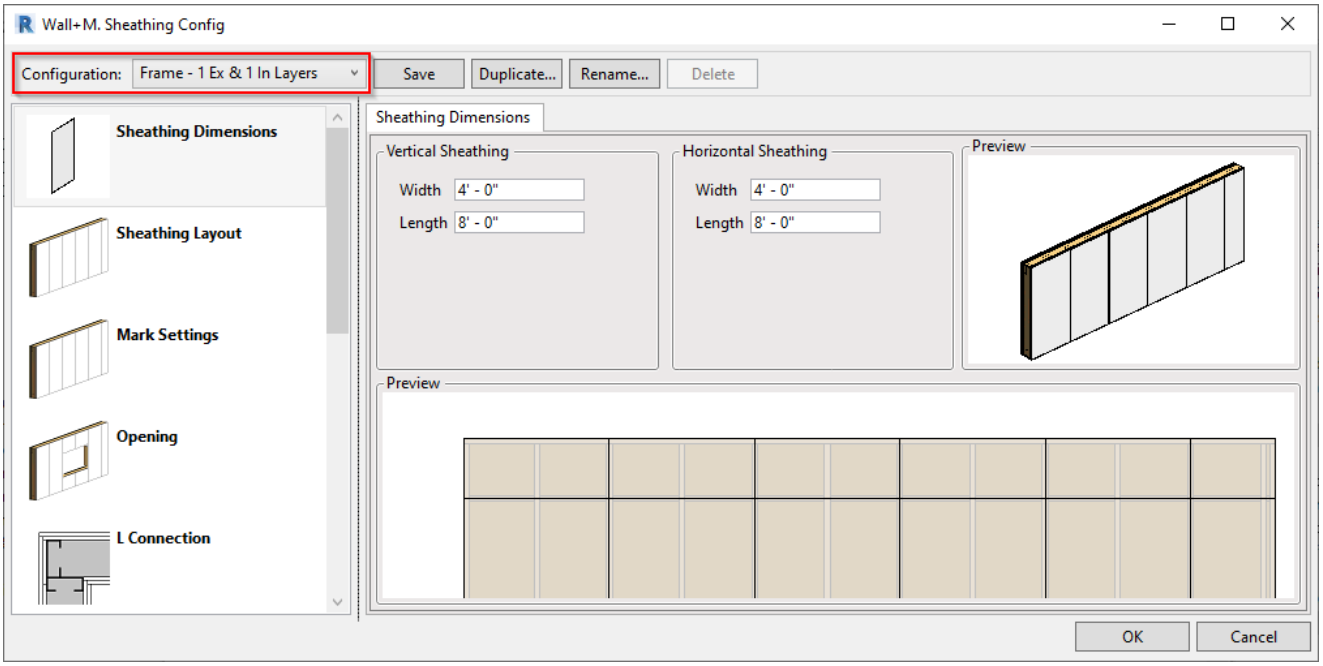
EXTERIOR SIDE

	Function	Material	Thickness	Framing Layer	Framing Configuration	Configuration	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration
1	Finish1	Wood Sheathing, Chipboard	16 mm	Sheathing	-- None --	Fixed	☐	☐	☑	☐	Frame - 1 Ex & 1 In Layers
2	Structure	Metal Stud Layer	102 mm	Frame	M_C+C	Fixed	☑	☐	☐	☑	-- None --
3	Finish1	Wood Sheathing, Chipboard	16 mm	Sheathing II	-- None --	Fixed	☐	☐	☑	☐	Frame - 1 Ex & 1 In Layers

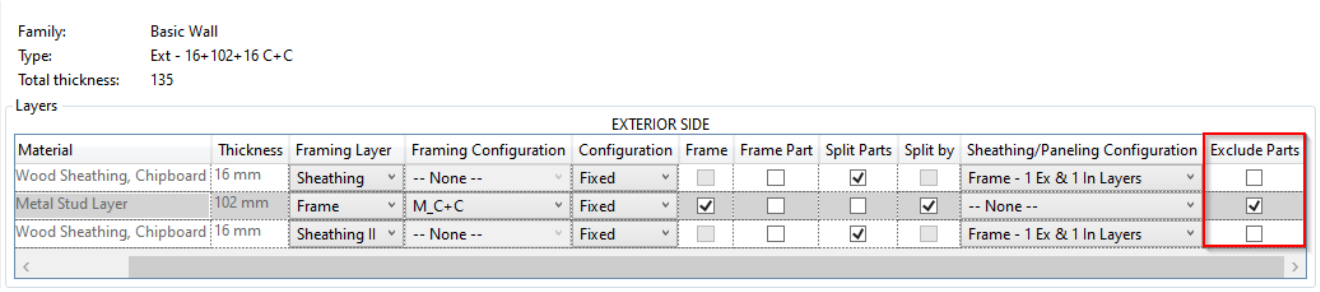
Sheathing/Paneling Configuration – select sheathing/paneling configuration with definition of all sheathing/paneling parameters. There are default configurations that come with **Wall+M**, but you can also create your own.

The list of sheathing/paneling configurations comes from here:

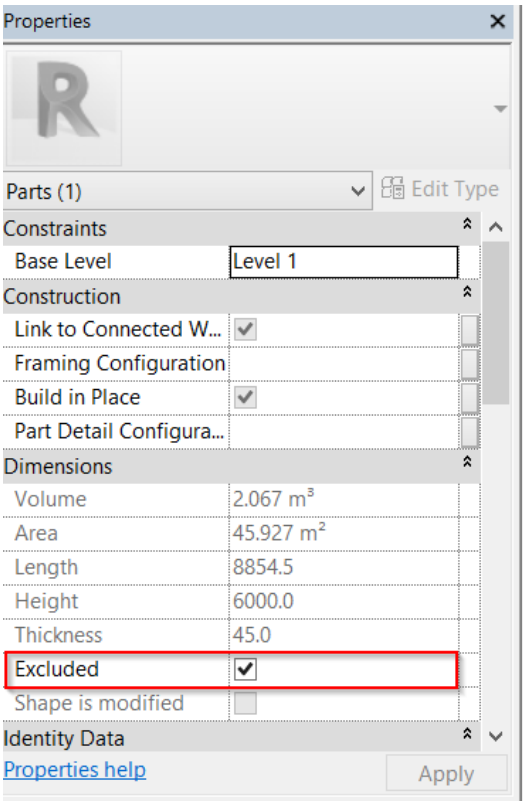




Exclude Parts



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


Properties
Parts (1)
Edit Type
Constraints
Base Level
Level 1
Construction
Link to Connected W...
Framing Configuration
Build in Place
Part Detail Configura...
Dimensions
Volume
2.067 m³
Area
45.927 m²
Length
8854.5
Height
6000.0
Thickness
45.0
Excluded
Shape is modified
Identity Data
Properties help
Apply