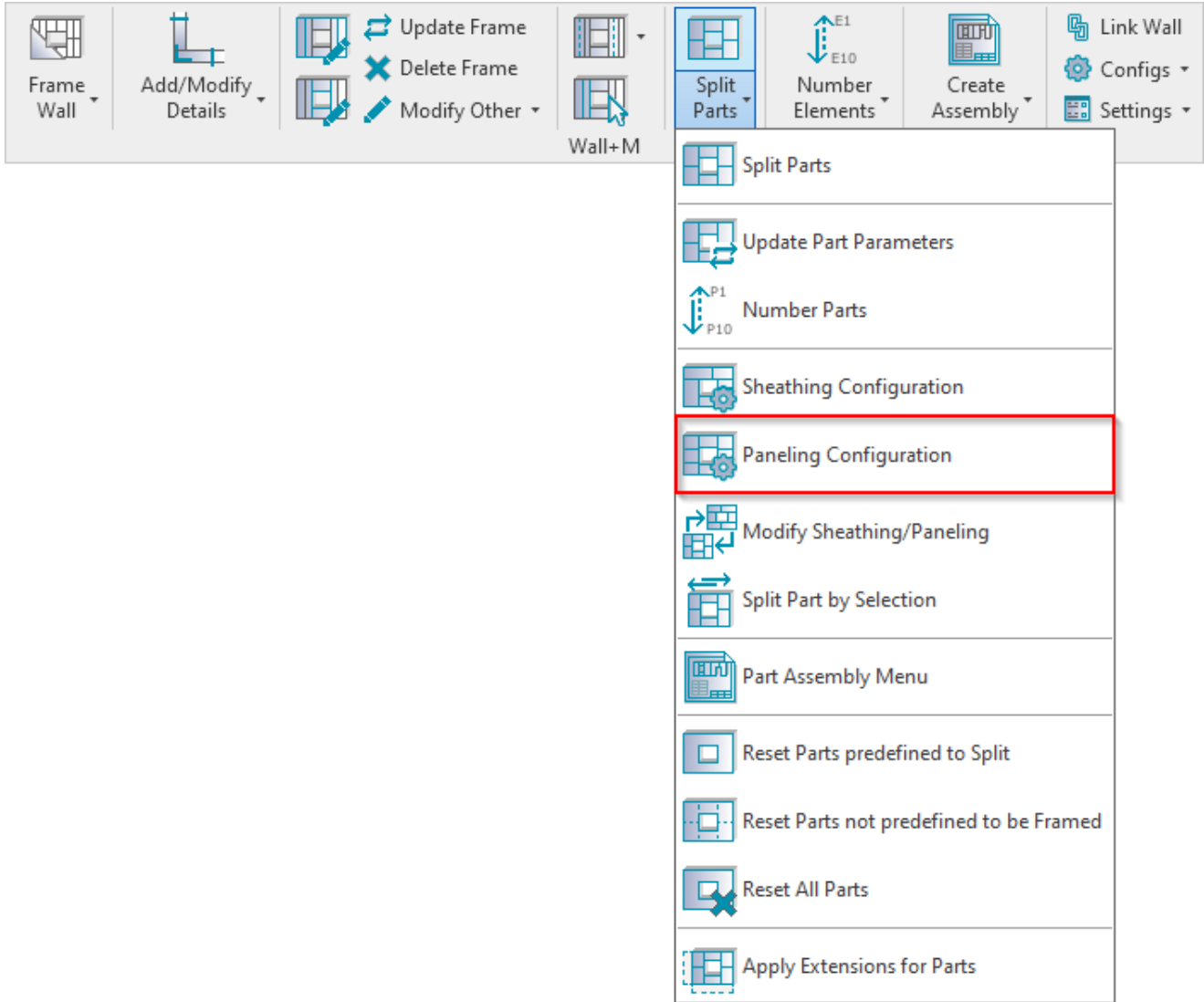


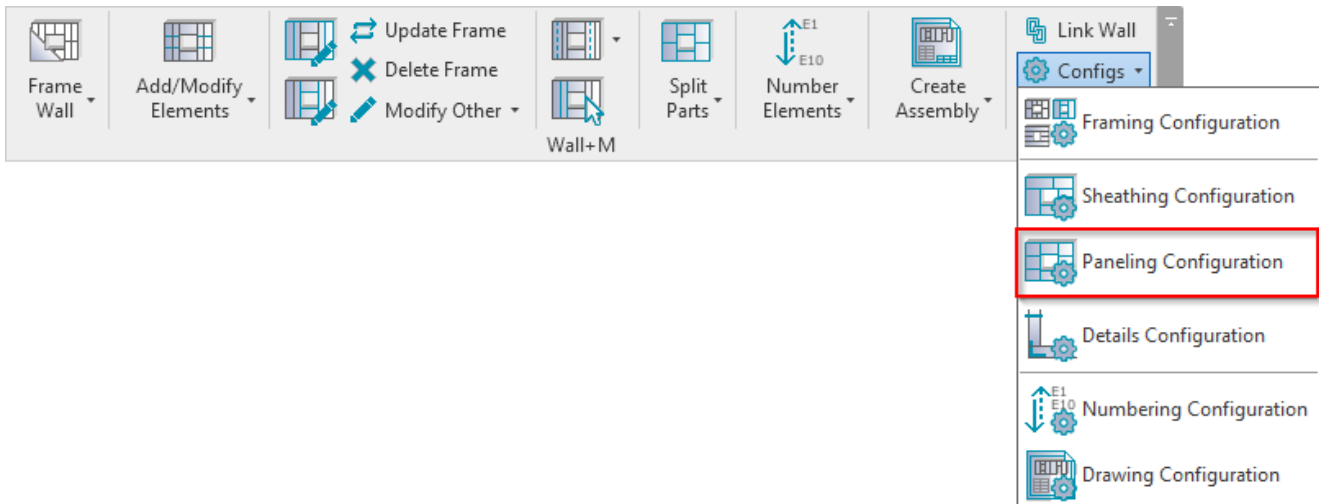
SHEATHING and PANELING LAYOUTS – Paneling Configuration

Modified on: Sun, 3 Jan, 2021 at 7:16 PM

Paneling Configuration



or:



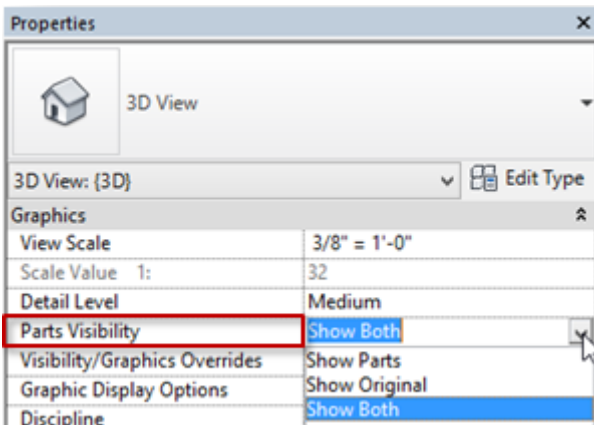
Paneling Configuration – allows you to configure and save settings for the paneling layouts. These settings can be saved and linked with wall layer using Link Wall. By using this configuration, you can model insulation and ventilated facades in your Revit project!

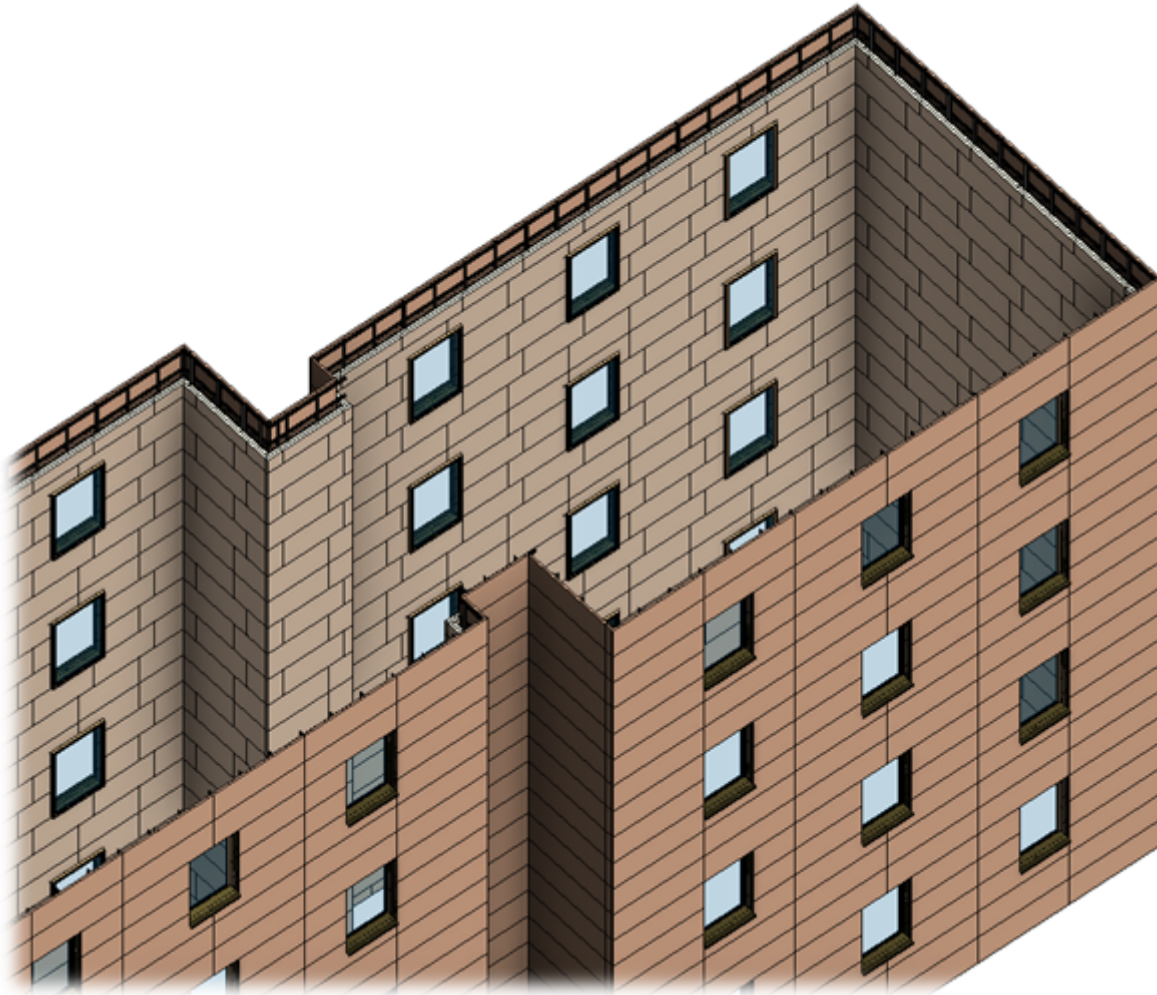
A ventilated facade is designed so that panels – often made of technical ceramics or porcelain – cover the building’s exterior, leaving a space for air to flow between the structural wall and the facade, creating a chimney effect all around the building.



Using Paneling Configuration you can predefine insulation and external paneling setting for your Revit project.

Insulation or panels are created using Revit Parts. In order to see the panels or insulation, you have to select Show Parts or Show Both in View Properties → Parts Visibility.



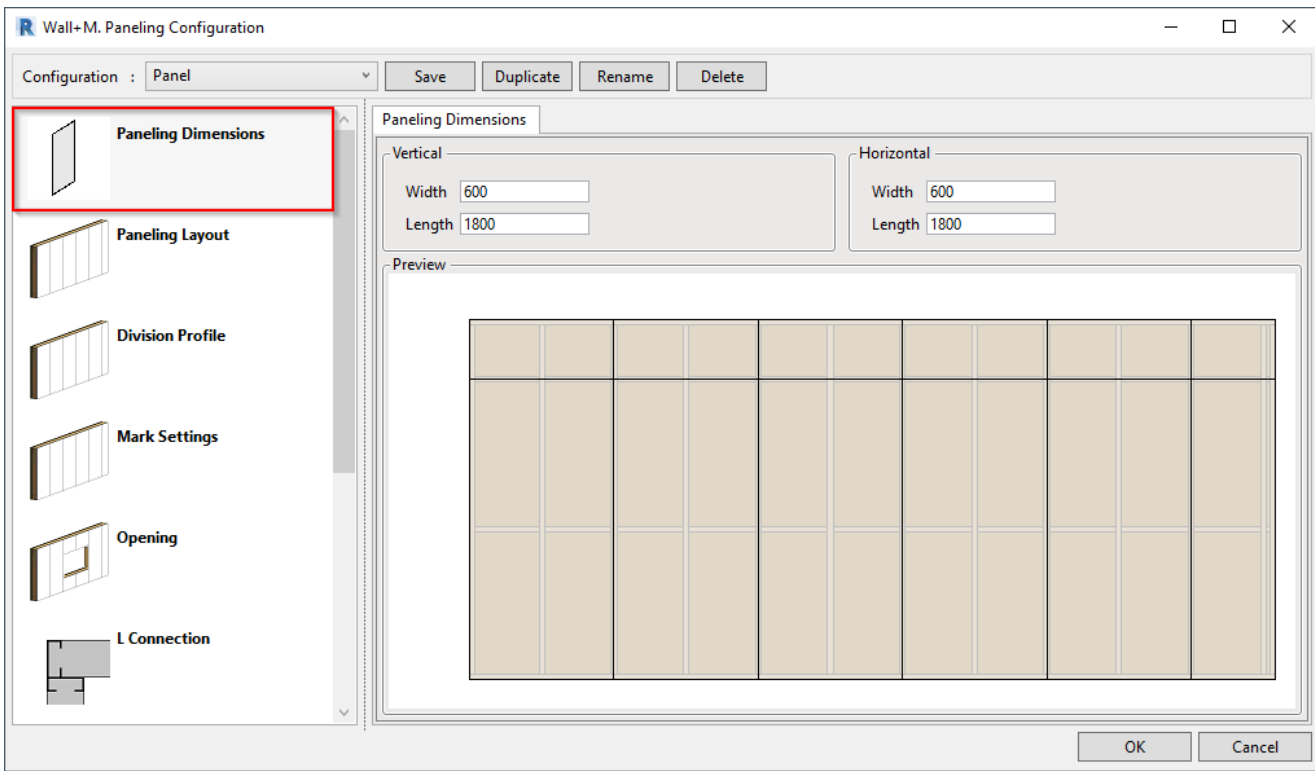


These settings can be saved and linked with wall layer using Link Wall.

Family: Basic Wall
 Type: Ext - 16+102+16 C+C
 Total thickness: 153

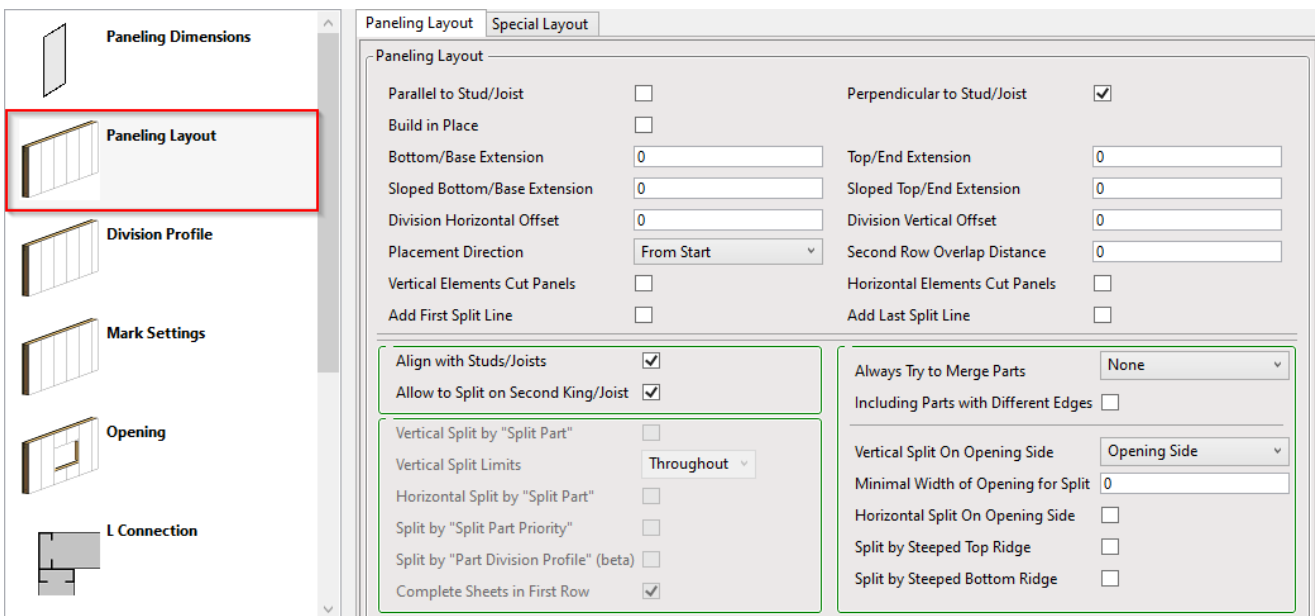
EXTERIOR SIDE										
Thickness	Framing Layer	Framing Configuration	Configuration	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts	
0 mm	None	-- None --	Fixed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-- None --	<input checked="" type="checkbox"/>	
16 mm	Paneling	-- None --	Fixed	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Panel	<input type="checkbox"/>	
120 mm	Frame	M_C+C	Fixed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-- None --	<input checked="" type="checkbox"/>	
16 mm	Sheathing II	-- None --	Fixed	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Frame - 1 Ex & 1 In Layers	<input type="checkbox"/>	

Paneling Dimensions



Paneling Dimensions – predefine vertical and horizontal paneling sizes (Width and Length).

Paneling Layout



Paneling Layout – predefine settings for creating the paneling.

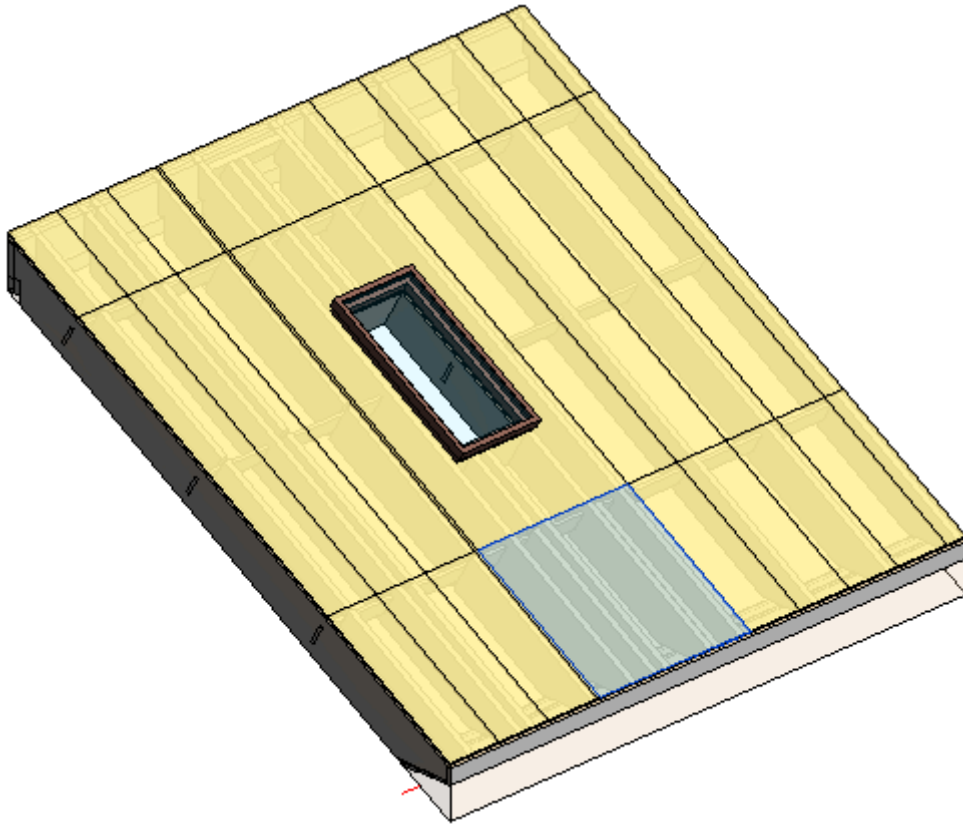
Read more about every feature here >> (<https://agacad.freshdesk.com/support/solutions/articles/44002140223-sheathing-and-paneling-layouts-%E2%80%93-paneling-configuration-%E2%80%93-paneling-layout>)

Special Layout

The screenshot displays the 'Paneling Configuration' dialog box. On the left, a vertical sidebar contains icons for 'Paneling Dimensions', 'Paneling Layout', 'Division Profile', 'Mark Settings', 'Opening', 'L Connection', 'V Connection', and 'End Connection'. The 'Paneling Layout' icon is highlighted with a red border. The main area is titled 'Paneling Layout' and has a sub-tab 'Special Layout' also highlighted with a red border. Under 'Special Layout', there are several sections:

- Split Settings:** Includes 'Enable Special Layout' (checked), 'Split Type' (set to 'Split by side of openings'), and a checkbox for 'Following Split Function - Split by Parameter - by Priority' (unchecked).
- Split by Openings:** A collapsed section containing:
 - Window:** 'Minimal Distance from Window' (0) and 'Minimum Window Width' (0).
 - Door:** 'Minimal Distance from Door' (0) and 'Minimum Door Width' (0).
 - Generic Openings:** 'Minimal Distance from Generic Opening' (0) and 'Minimum Generic Opening Width' (0).
 - System Openings:** 'Minimal Distance from System Opening' (0) and 'Minimum System Opening Width' (0).
- A checkbox for 'Fit opening in complete split segment' (unchecked).
- Split Spacing:** 'Spacing' (0), 'Maximum Spacing' (0), and 'Minimum Length of Splited Wall' (0).

Special Layout – place for applying special layout that can't be defined with regular **Paneling Dimensions**. To enable all possible options switch on **Enable Special Layout**.



Split Type – all possible layout rule.

Division Profile

Paneling Dimensions

Paneling Layout

Division Profile

Mark Settings

Opening

L Connection

V Connection

Paneling Layout

Vertical Gap: 0.3

Vertical Division Profile: -- None --

Vertical Profile Edge Mirrored:

Vertical Profile Along Flip:

Horizontal Gap: 0.4

Horizontal Division Profile: -- None --

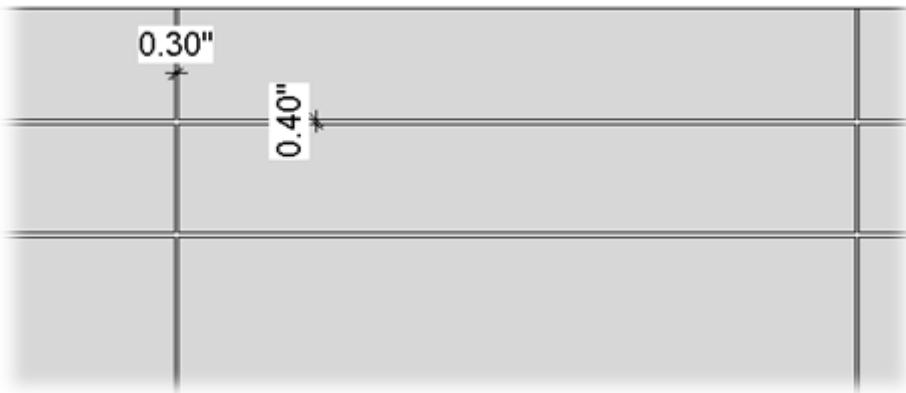
Horizontal Profile Edge Mirrored:

Horizontal Profile Along Flip:

Preview

Horizontal/Vertical Gap – specifies the distance between divided horizontal and vertical parts. The default value is 0, which results in no gap.

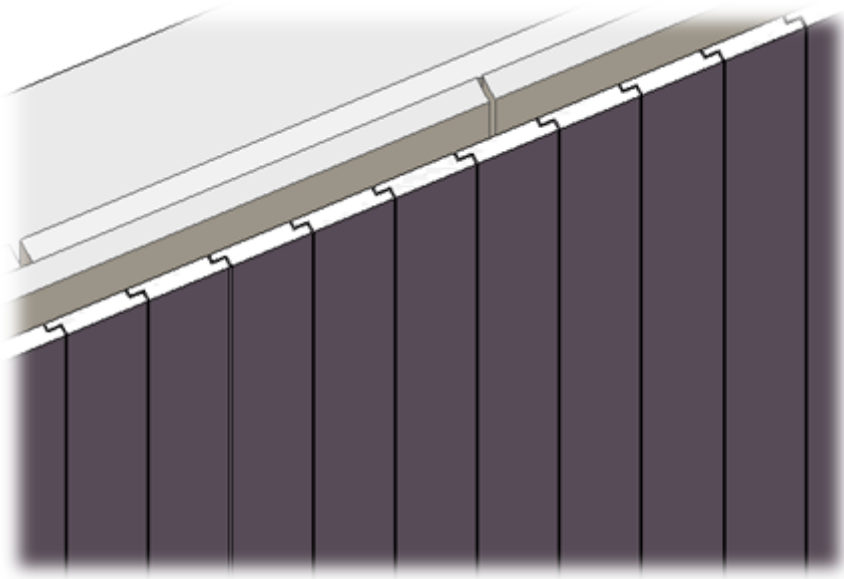
Note that if **Always Try to Merge Parts** is ticked ON, Gap will not be applicable.

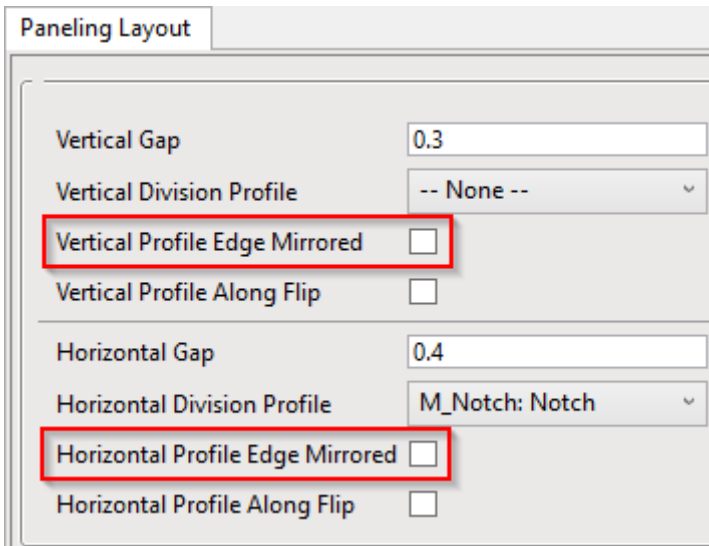


Paneling Layout

Vertical Gap	0.3
Vertical Division Profile	-- None --
Vertical Profile Edge Mirrored	<input type="checkbox"/>
Vertical Profile Along Flip	<input type="checkbox"/>
Horizontal Gap	0.4
Horizontal Division Profile	M_Notch: Notch
Horizontal Profile Edge Mirrored	<input type="checkbox"/>
Horizontal Profile Along Flip	<input type="checkbox"/>

Horizontal/Vertical Division Profile – apply the pre-loaded profile you select from the drop-down list to part edges along dividers. The default value is None.

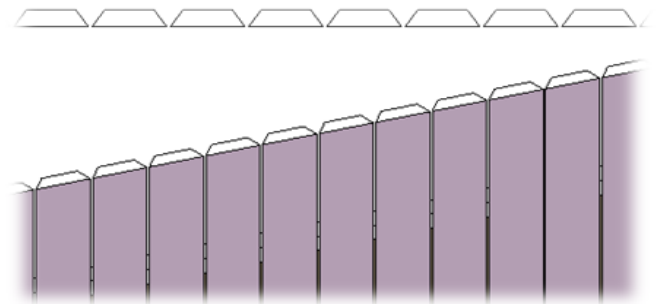
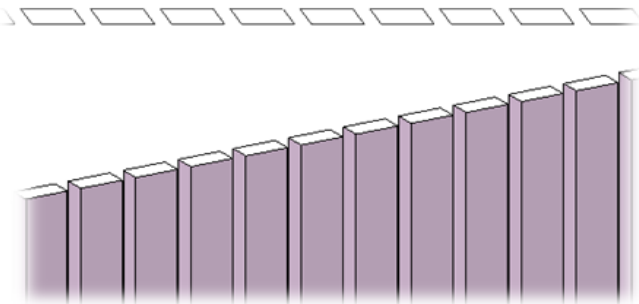




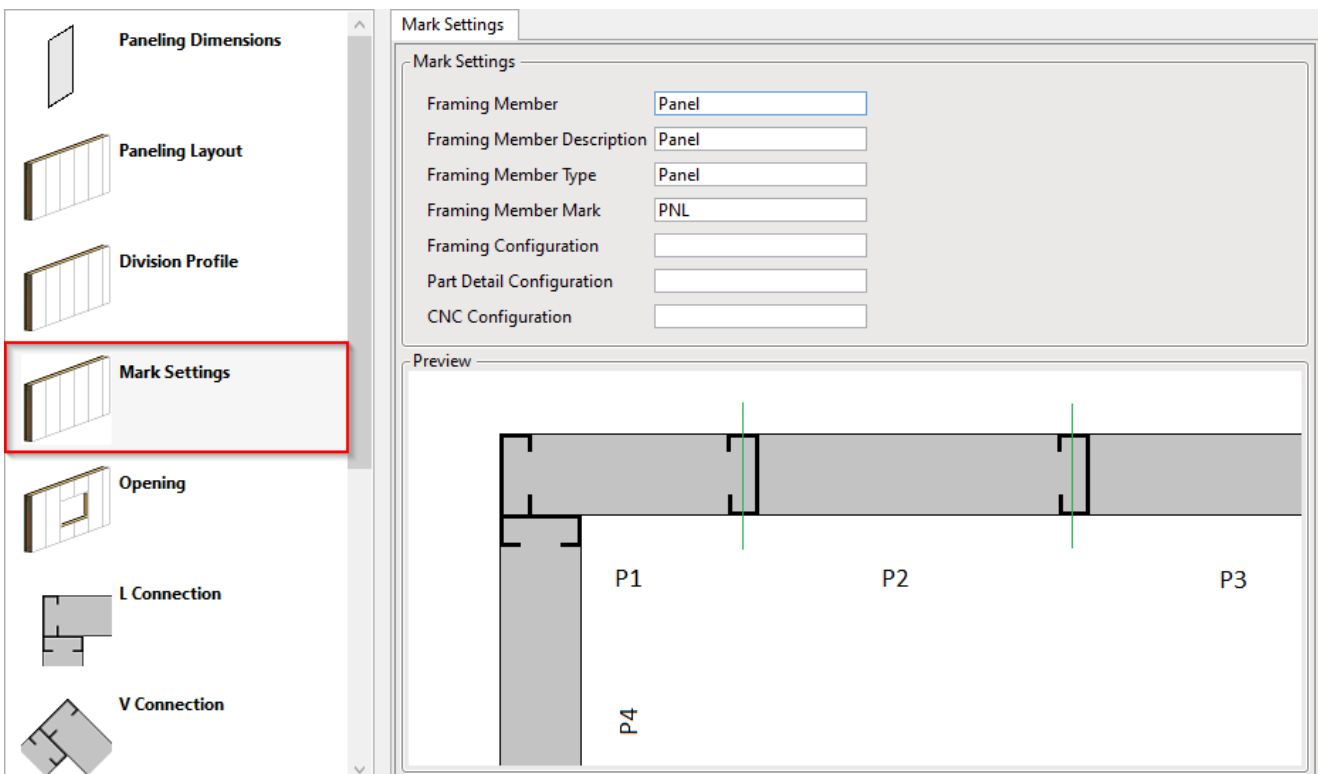
Horizontal/Vertical Profile Edge Mirrored – specify how the profiles on the other side of a divider gap will be oriented.

unticked

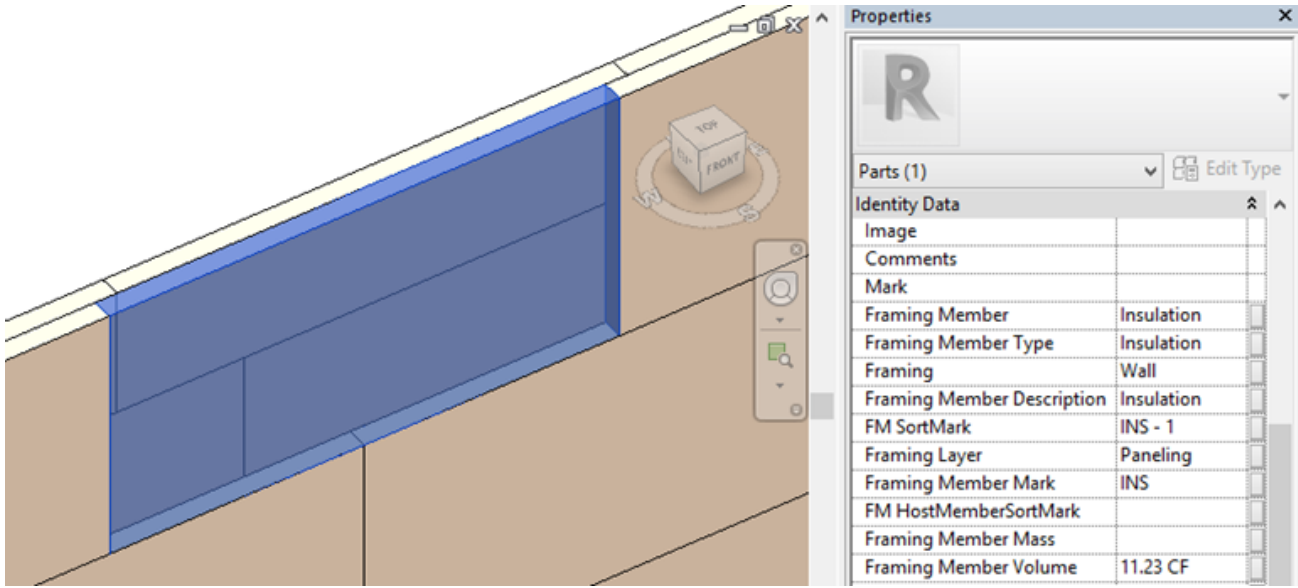
ticked



Mark Settings



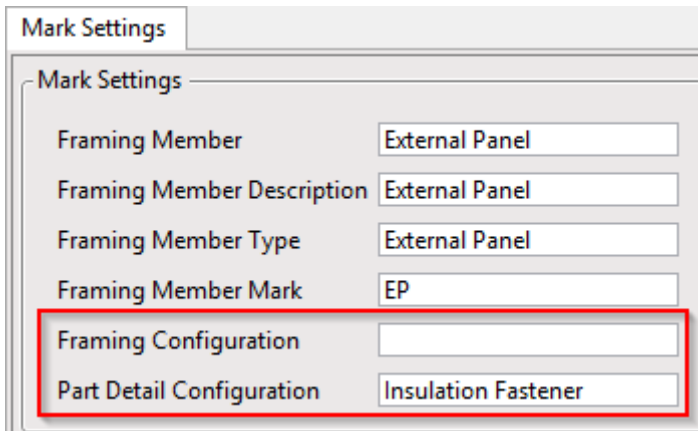
Mark Settings – predefine default values for these parameters. The parameters can be later used in schedules and tags.

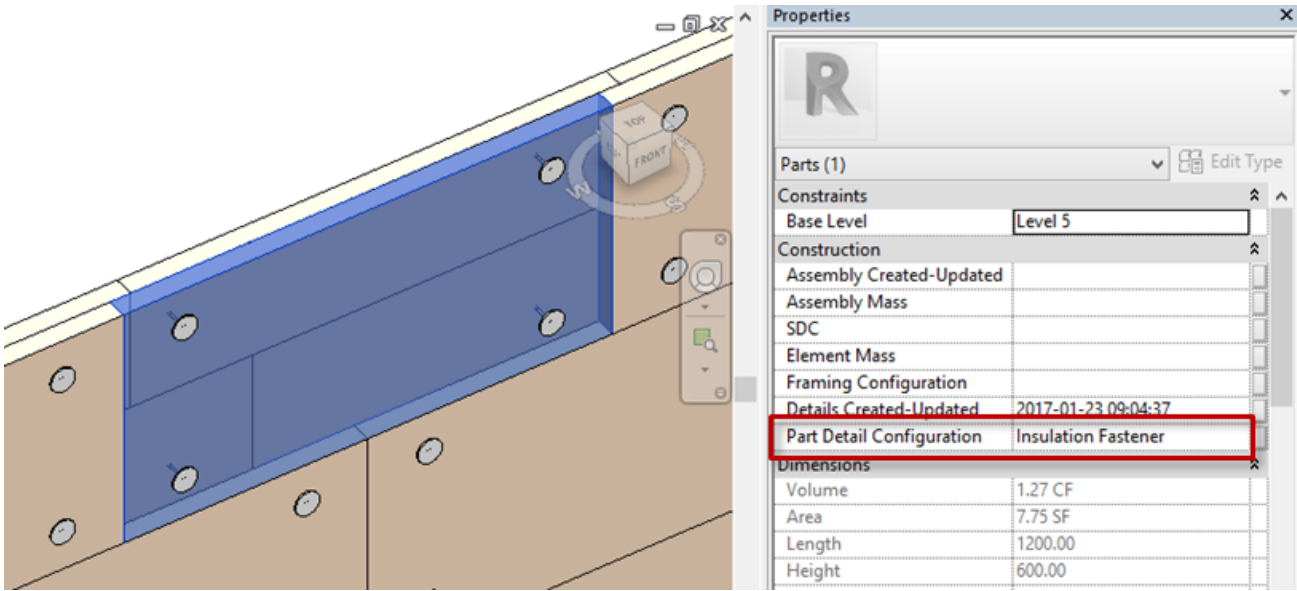


Part Detail Configuration and **Framing Configuration** – you can predefine default configurations to be added to every part.

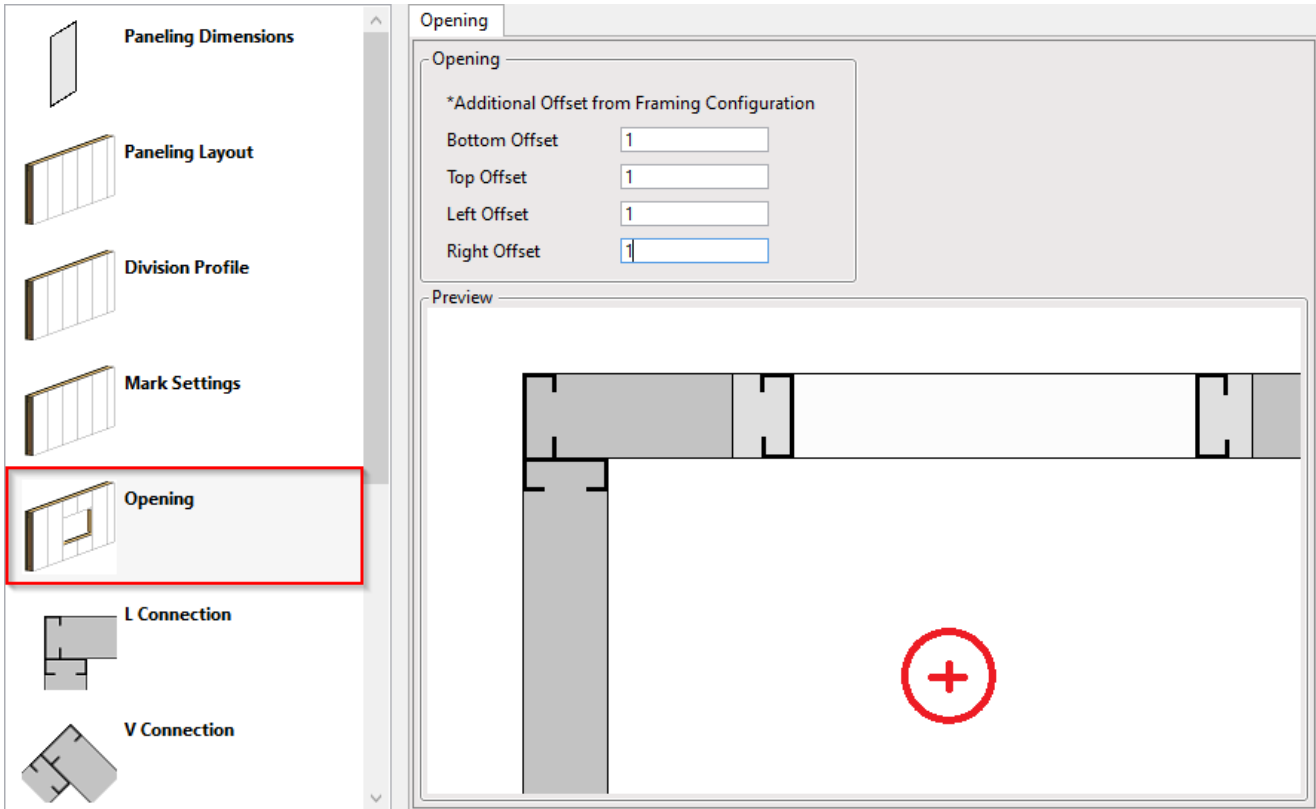
Detail configuration comes from **Smart Details** (<http://www.aga-cad.com/products/bim-solutions/smart-details>). **Smart Details** can instantly add any number of face-specific intelligent details – which adapt to host-element changes – throughout BIM models.

Example: Insulation fasteners are automatically added to every insulation:





Opening



Opening – predefine top, bottom, left, and right paneling offsets from the window, door, or MEP opening.



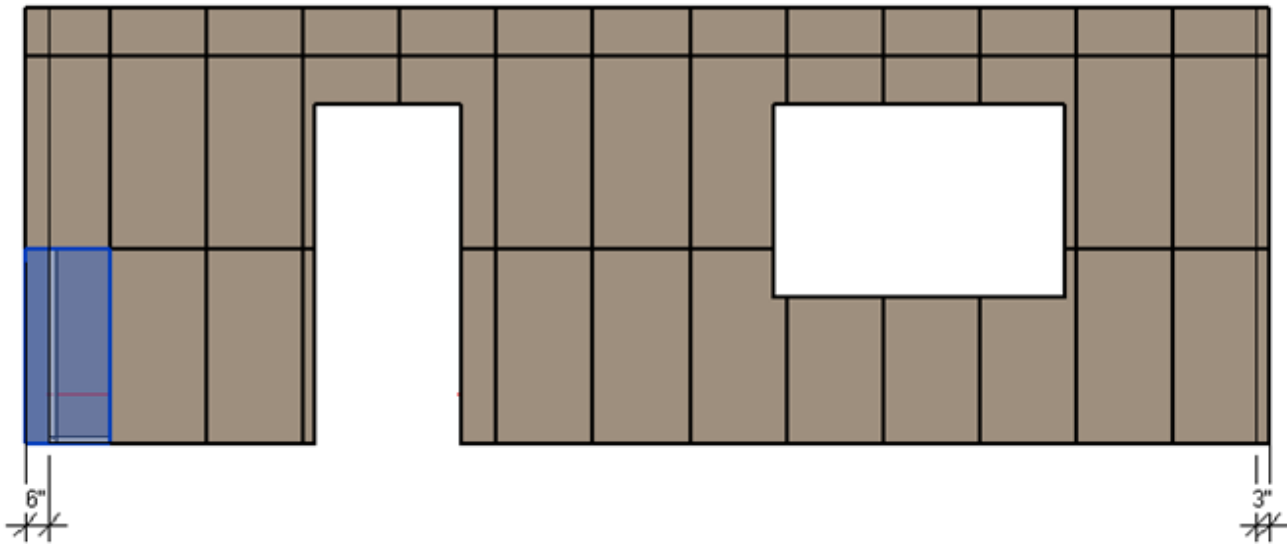
L Connection, V Connection, End Connection, T Connection

A screenshot of the AGACAD software interface. On the left is a navigation pane with icons for 'Division Profile', 'Mark Settings', 'Opening', and a red-bordered box containing 'L Connection', 'V Connection', 'End Connection', and 'T Connection'. The main window has tabs for 'Inner Corner' and 'Outer Corner'. It features two columns of settings: 'L Connected Wall' and 'Butt Connected Wall'. Each column includes fields for 'Layer Extension' (set to 0), 'Split at Stud' (set to None), 'Build in Place' (checkbox), 'Excluded' (checkbox), and 'Offset Distance' (set to 0). A 'Preview' window at the bottom shows a 3D rendering of an L-shaped wall connection with a red circle containing a minus sign.

L Connection, V Connection, End Connection, T Connection – predefine paneling settings for different wall connections.

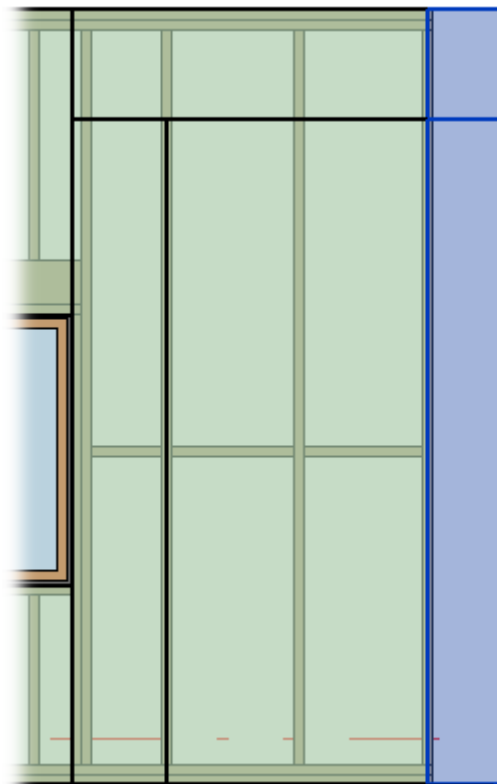
Layer Extension – distance from a wall face.

*Example: For the free end connection **Layer Extension** = 6:*



Split at Stud – define the number of stud where the panel must be split.

*Example: **Split at Stud** = 1:*



Build in Place – writes Yes/No information into the panel instance parameter if it is build-in-place or is prefabricated together with whole wall frame. Later this parameter can be used in schedules or view filters.

Properties

Parts (1) Edit Type

Constraints

Base Level Level 2

Construction

Link to Connected Wall

Framing Configuration

Build in Place

Part Detail Configuration

Assembly Mass

Element Mass

Assembly Created-Updated

Details Created-Updated

DC

Dimensions

Volume 0.012 m³

Area 0.968 m²

Length 322.5

Height 3000.0

Thickness 12.0

Excluded – removes the panel (part) from the model. Excluded panels are only visible when under the cursor and will not be included in schedules.

Properties

Parts (1) Edit Type

Constraints

Base Level Level 2

Construction

Link to Connected Wall

Framing Configuration

Build in Place

Part Detail Configuration

Assembly Mass

Element Mass

Assembly Created-Updated

Details Created-Updated

DC

Dimensions

Volume 0.012 m³

Area 0.968 m²

Length 322.5

Height 3000.0

Thickness 12.0

Excluded

Shape is modified

Identity Data

