## SHEATHING and PANELING LAYOUTS – Sheathing Configuration

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### **Sheathing Configuration**



**Sheathing Configuration** – allows you to configure and save settings for sheathing layouts. These settings can be saved and linked with wall layer using **Link Wall**.

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R Wall+. Sheathi	ng Config		-		×
Configuration :	Frame - 1 Ex & 1 In Layers 🛛 🗸	Save Duplicate Rename	Delete		
4	Frame - 1 Ex & 1 In Layers	Sheathing Dimensions			
She	eathing Dimensions	Vertical Sheathing Horizon	ntal Sheatl	ning —	
		Width 1200 Width	n 1200		
She	athing Layout	Length 2500 Lengt	th 2500		
		~Preview			
Div	ision Profile				
Mar	rk Settings				
		0	К	Cano	el:

### **Sheathing Dimensions**

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Sheathing Dimensions	^ S	heathing Dimensions			
	ſ	Vertical Sheathing	Hori	zontal Sheathing ——	
		Width 1200	Wi	dth 1200	
Sheathing Layout		Length 2500	Le	ngth 2500	
		Preview			
Division Profile					
Mark Settings					
Opening					
	~				

Sheathing Dimensions - predefine vertical and horizontal sheathing sizes (Width and Length).

### **Sheathing Layout**

Sheathing Dimensions	Inner Sheathing Outer Sheathing			
	First Inner Layer	Second Inner Layer		
	Parallel to Stud/Joist	Parallel to Stud/Joist		
Sheathing Layout	Perpendicular to Stud/Joist	Perpendicular to Stud/Joist		
Sincutining tayout	Build in Place	Build in Place		
	Bottom/Base Extension 0	Bottom/Base Extension 0		
Division Resoffic	Sloped Bottom/Base Extension 0	Sloped Bottom/Base Extension 0		
Division Profile	Top/End Extension 0	Top/End Extension 0		
	Sloped Top/End Extension 0	Sloped Top/End Extension 0		
	Placement Direction From Start V	Placement Direction From End V		
Mark Settings	Vertical Elements Cut Panels	Vertical Elements Cut Panels		
	Horizontal Elements Cut Panels	Horizontal Elements Cut Panels		
	Second Row Overlap Distance 0	Second Row Overlap Distance 0		
Opening	Align with Studs/Joists	Align with Studs/Joists		
	Split by Secondary Custom Studs/Joists Axis	Split by Secondary Custom Studs/Joists Axis		
	Allow to Split on Second King/Joist	Allow to Split on Second King/Joist		
	Always Try to Merge Parts Vertically & Horizontall	Always Try to Merge Parts Vertically & Horizontall V		
	Including Parts with Different Edges	Including Parts with Different Edges		
V Connection	Vertical Split On Opening Side Vertical Split On Opening Side Vertical Split On Opening Side Vertical Split Opening Split Openin	Vertical Split On Opening Side Vertical Split On Opening Side Vertical Split On Opening Side Vertical Split Opening Split Openin		
	Minimal Width of Opening for Split 0	Minimal Width of Opening for Split 0		
	Horizontal Split On Opening Side	Horizontal Split On Opening Side		
End Connection	Split by Steeped Top Ridge	Split by Steeped Top Ridge		
	Split by Steeped Bottom Ridge	Split by Steeped Bottom Ridge		
<u> </u>				

Sheathing Layout – predefine settings for Inner and Outer sheathing layers.

<u>Read more about every feature here >> (https://agacad.freshdesk.com/support/solutions/articles/44002140222-sheathing-and-paneling-layouts-%E2%80%93-sheathing-configuration-%E2%80%93-sheathing-layout)</u>

# **Division Profile**

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Sheathing Dimensions	Inner Sheathing	Outer Sheathing			
	- First Inner Profi	e		Second Inner Profile	]
	Vertical Gap		10	Vertical Gap	0
Sheathing Layout	Vertical Divisio	on Profile	None ~	Vertical Division Profile	None ~
	Vertical Profile	e Edge Mirrored	M_Tapered Notch: Tapered Notch	Vertical Profile Edge Mirrored	
	Vertical Profile	e Along Flip	M_Angled Step: Angled Step M_Notch: Notch	Vertical Profile Along Flip	
Division Profile	Horizontal Ga	р	None	Horizontal Gap	0
	Horizontal Div	vision Profile	None ~	Horizontal Division Profile	None ~
	Horizontal Pro	ofile Edge Mirrored		Horizontal Profile Edge Mirrored	
Mark Settings	Horizontal Pro	ofile Along Flip		Horizontal Profile Along Flip	
	Preview				
Opening					
L Connection					
V Connection					
			<u> </u>		
• •			(+	)	
End Connection			$\sim$		
~ ·					

Division Profile – apply the pre-loaded profile and settings to part edges along dividers.



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

0.3	30" 5.	
	0.4	

**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.

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### **Mark Settings**

Sheathing Dimensions	Inner Sheathing Outer Sheathing			
	First Inner Layer			
	Framing Member Framing Sheathing Framing Member Framing Sheathing			
Sheathing Layout	Framing Member Description Sheathing Framing Member Description Sheathing			
	Framing Member Type Sheathing Framing Member Type Sheathing			
	Framing Member Mark SHI Framing Member Mark SHI			
Division Profile	Framing Configuration Framing Configuration			
	Part Detail Configuration Part Detail Configuration			
	CNC Configuration CNC Configuration			
Mark Settings	Preview			
Opening				
L Connection				
V Connection	$\begin{array}{    } \hline \\ \hline $			

Mark Settings – predefine default values for these parameters for later use in schedules and tags.

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		_ 0 % ^	Properties		×
			R		•
		-Q	Parts (1)		туре
			Shape is modified		^
			Identity Data		*
			Image		
			Comments		
			Mark	<u> </u>	
			FM SortMark	SH - 0	
			Framing Member	Framing Sheathing	
		1 C C C C C C C C C C C C C C C C C C C	Framing Member Desc	Sheathing	-
			Framing Member Mark	SH	_
			Framing Member Type	Sheathing	
			Framing	Wall	
			Framing Layer	Sneathing	
			FM HostMemberSort	222.020 #	
			Framing Member Mass	232.038 Ibm	
			Framing Member Volu	12241.00 in	
			Show Shape Handles	W-H-	
			Original Category	walls	
			Original Family	Basic Wall	
			Original Type	External Wall 6"	
-	_		Material By Original		
			I Material	External Sheathing	

### Opening

Sheathing Dimensions	Inner Sheathing Outer Sheathing			
	First Inner Layer	Second Inner Layer		
	*Additional Offset from Framing Configuration	*Additional Offset from Framing Configuration		
Sheathing Layout	Bottom Offset 1	Bottom Offset 1		
	Top Offset 1	Top Offset 1		
	Left Offset 1	Left Offset 1		
Division Profile	Right Offset 1	Right Offset 1		
	- Preview			
Mark Settings				
Opening				
1121				
L Connection				
		$\frown$		
		(+)		
V Connection		$\smile$		
***				

**Opening** – predefine top, bottom, left, and right sheathing offsets from a window, door, or other opening.



### L Connection, V Connection, End Connection, T Connection

Division Profile	Outer Corner - Outer Sheathing	Inner Corner - Outer Sheathing	
Division Profile	Outer Corner - Inner Sheathing	Inner Corner - Inner Sheathing	
	L Connected Wall	Butt Connected Wall	
Mark Sattinar	Layer Extension 0	Layer Extension 0	
Mark Settings	Split at Stud None v	Split at Stud None 👻	
	Build in Place None	Build in Place	
	Excluded 2	Excluded 🗌	
Opening	Offset Distance 3	Offset Distance 0	
	L Connected Wall 5	Butt Connected Wall Second Layer	
L Connection	Layer Extension 0	Layer Extension 0	
	Split at Stud None v	Split at Stud None 🗸	
	Build in Place	Build in Place	
V Connection	Excluded	Excluded	
	Offset Distance 0	Offset Distance 0	
<b>*</b>	Preview		
End Connection			
T Connection			
~			

#### SHEATHING and PANELING LAYOUTS – Sheathing Configuration : AGACAD

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

Layer Extension – distance from a wall face.

#### Example: For the free end connection, Layer Extension = 150:



Split at Stud – define the number of studs where the sheathing must be split.





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

Properties		×		
R		Ŧ		
Parts (1)	✓ 200 E0	dit Type		
Constraints		* ^		
Base Level	Level 2			
Construction		*		
Link to Connected Wall	<b>√</b>			
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 m <sup>2</sup>			
Length	322.5		 	-
Height	3000.0			
Thickness	12.0			

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

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