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 roof layer using **Link Roof**.

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R Link Roof									-		×
Basic Roof : Roof 300 - for Rafters	Family: E Type: F	Basic Roof Roof 300 - for Rafters									
Basic Roof : Roof 300 - Frame Panel	Total thickness: 4	150									
	Layers				EXT	ERIOR SIDE					
	Framing Layer	Framing Configuration		Configuration	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclud	e Parts
	Roofing	M_Roof Paneling	~	Fixed Y	✓	~	✓		Panel 👻	J C]
	Batten	M_Roof_Panel Battens	~	Fixed Y	✓	✓			None *		1
	Secondary Frame	M_Roof_Panel Secondary Frame	~	Fixed Y	✓	✓			Panel v		1
	Sheathing 🕚	None	~	Fixed v					Roof Frame - 1 Top & 1 Bottom Layer 👻]
	Frame	M_Roof_Rafter Main Frame	~	Fixed Y	✓	✓			Panel Y		ĺ
	Paneling V	None	~	Fixed v					Panel v		1
	<										>
									Cancel	0	К

R Roof+M. Sheathing Config		-		×		
Configuration : Roof Frame - 1 Top & 1 Bottc	Save Duplicate Rename Delete					
Sheathing Dimensions	Sheathing Dimensions					
	Vertical Sheathing Horizontal Sheathing	Horizontal Sheathing				
	Width 1200 Width 1200					
Sheathing Layout	Length 3000 Length 3000					
	Preview					
Division Profile						
Mark Settings						
Opening						
End Connection						
	ОК		Cance	el		

Sheathing Dimensions

Sheathing Dimensions	Sheathing Dimensions				
	Vertical Sheathing	C Horizontal Sheathing			
	Width 1200	Width 1200			
Sheathing Layout	Length 3000	Length 3000			
	Preview	,			
~					
Division Profile					
N I C W					
Mark Settings					
Opening					
End Connection					

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

Sheathing Layout

Sheathing Dimensions	Bottom Sheathing Top Sheathing			
	First Bottom Layer		Second Bottom Layer	
	Parallel to Stud/Joist		Parallel to Stud/Joist	
s Shorthing I would	Perpendicular to Stud/Joist	\checkmark	Perpendicular to Stud/Joist	√
	Build in Place		Build in Place	
	Bottom/Base Extension	0 Apply Horizonta	Bottom/Base Extension	0 Apply Horizonta
D D	Sloped Bottom/Base Extension	0 Apply Horizonta	Sloped Bottom/Base Extension	0 Apply Horizonta
Division Profile	Top/End Extension	0 Apply Horizonta	Top/End Extension	0 Apply Horizonta
	Sloped Top/End Extension	0 Apply Horizonta	Sloped Top/End Extension	0 Apply Horizonta
	Placement Direction	From Start	Placement Direction	From End
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	\checkmark
	Split by Secondary Custom Studs/Joists Axis		Split by Secondary Custom Studs/Joists Axi	s
	Allow to Split on Second King/Joist		Allow to Split on Second King/Joist	V
End Connection	Always Try to Merge Parts Verti	cally & Horizontall	Always Try to Merge Parts	Vertically & Horizontall
	Including Parts with Different Edges		Including Parts with Different Edges	
	Vertical Split On Opening Side Open	ning Side v	Vertical Split On Opening Side	Opening Side v
	Minimal Width of Opening for Split 0		Minimal Width of Opening for Split	0
	Horizontal Split On Opening Side		Horizontal Split On Opening Side	
	Split by Steeped Top Ridge		Split by Steeped Top Ridge	
	Split by Steeped Bottom Ridge		Split by Steeped Bottom Ridge	

Sheathing Layout – predefine settings for Top and Bottom sheathing layers.

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

Division Profile

Sheathing Dimensions	Bottom Sheathing Top Sheathing	
	First Inner Profile	Second Inner Profile
Sheathing Layout	Vertical Gap 0 Vertical Division Profile None ~ Vertical Profile Edge Mirrored	Vertical Gap 0 Vertical Division Profile None · · · Vertical Profile Edge Mirrored
Division Profile	Vertical Profile Along Flip Horizontal Gap 0 Horizontal Division Profile None Vertical Profile Edge Mirrored	Vertical Profile Along Flip Horizontal Gap 0 Horizontal Division Profile None Horizontal Profile Edge Mirrored
Mark Settings	Horizontal Profile Along Flip	Horizontal Profile Along Flip
Opening		
End Connection		

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.



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

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Sheathing Dimensions	Bottom Sheathing Top Sh	eathing					
	First Bottom Layer		Second Bottom Layer				
	Framing Member	Framing Sheathing	Framing Member	Framing Sheathing			
Sheathing Layout	Framing Member Descri	ption Sheathing	Framing Member De	scription Sheathing			
	Framing Member Type	Sheathing	Framing Member Typ	be Sheathing			
	Framing Member Mark	SH	Framing Member Ma	ırk SH			
Division Profile	Framing Configuration		Framing Configuration	on			
	Part Detail Configuration	n	Part Detail Configura	tion			
	CNC Configuration		CNC Configuration				
Mark Settings	Preview						
Opening							
End Connection			- -				

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



Opening

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Sheathing Dimensions	Bottom Sheathing Top Sheathing	
	First Bottom Layer	Second Bottom Layer
Sheathing Layout	*Additional Offset from Framing Configuration Bottom Offset 0 Top Offset 0 Left Offset 0 Right Offset 0	*Additional Offset from Framing Configuration Bottom Offset 0 Top Offset 0 Left Offset 0 Right Offset 0
Division Profile	- Preview	
Mark Settings		
Opening		
End Connection		

Opening – predefine top, bottom, left, and right sheathing offsets from opening.



End Connection

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	Sheathing Dimensions	Free End - Start She	athing	Free End - End Sheathing			
	Sheating Sheatsions	End Connection -	Bottom	Sheathing	End C	Connection -	Top Sheathing
	Sheathing Layout	Layer Extension	0		Lay	er Extension	0
E		Split at Joist	None	¥	Spl	t at Joist	None ~
		Build in Place			Bui	ld in Place	
~~		Excluded			Exc	luded	
	Division Profile	Offset Distance	0		Off	set Distance	0
		-End Connection -	Bottom	Sheathing Second Layer —	End C	Connection -	Top Sheathing Second Layer
-	Mark Settings	Layer Extension	0		Lay	er Extension	0
1. Alexandre		Split at Joist	None	~	Spli	t at Joist	None 🗸
S		Build in Place			Bui	ld in Place	
~	Opening	Excluded			Exc	luded	
		Offset Distance	0		Off	set Distance	0
		Preview					
	End Connection						
					Ē,		

End Connection – predefine sheathing settings for roof end connections.

Layer Extension – distance from roof face.

Example: For the free end connection, **Layer Extension** = 20:



Split at Joist - define the joist number at which the sheathing must be split.

Example: **Split at Joist** = 1:



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



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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Properties		×			
R		Ŧ		7	
Parts (1)	🗸 🖌 🔁 Ed	lit Type			
Constraints		* ^			1
Base Level	Level 2				
Construction		*			
Link to Connected Wall	1				
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	✓				J
Shape is modified					
Identity Data		*			