LINK WALL

Modified on: Mon, 26 Oct, 2020 at 9:01 PM

Link Wall

		🔲 🔁 Update Frame	-	Æ	7	E1	ŒUFU	🔓 Link Wall				
Frame Wall	Add/Modify Elements	Delete Frame		Split Parts	Build Log Wall	Vero Number Elements	Create Assembly	Onfigs ▼Settings ▼				
	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.

R			Link Wall						×
Basic Wall : Ext - 16+220+16 C+U Ext 3	Fa Tj To	amily: ype: otal thickness:	nily: Basic Wall se: Ext - 16+220+16 C+U Ext 3 al thickness: 318 ers						
Basic Wall : Ext - 16+92+16 C+U Int	La	yers			EXTERIOR SIDE				
		Function	Material	Thickness	Framing Layer		Framing Configuration	Configu	ration
Basic Wall : Ext - FRAME-0	1	Finish2	Wood - C24	45 mm	Horizontal Siding	v	Horizontal Siding	Fixed	~
	2	Finish1	Wood - Dimensional Lumber	22 mm	Vertical Nailer	¥	Vertical Nailer	Fixed	~
Basic Wall : Ext - FRAME-4	3	Structure	OSB	18 mm	Sheathing	¥	None	Fixed	~
Basic Wall : Ext 1HorSiding - HS22-VN45-FR-	4	Structure	Softwood, Lumber	220 mm	Frame	¥	Frame	Variable	~
	5	Finish1	Wood Sheathing, Chipboard	13 mm	Sheathing II	~	None	Fixed	~
Basic Wall : Exterior - Block on Mtl. Stud	,		1						
< >	<								>
							Cancel	0	к

<u>Dialog:</u>

R		Link Wall					×
Basic Wall : Ext - 16+220+16 C+U Ext 3	Family: Type:	Basic Wall Ext - 16+220+16 C+1	1				
Basic Wall : Ext - 16+92+16 C+U Ext 2	Total thickness:	318					_
Basic Wall : Ext - 16+92+16 C+U Int	Layers		3	EXTERIOR SIDE			
	Function	Material	Thickness	Framing Layer	Framing Configuration	Configuratio	'n
Basic Wall : Ext - FRAME-0	1 Finish2	Wood - C24	45 mm	Horizontal Siding 🔻	Horizontal Siding	Fixed	~
Parie Wally Ext. EPAME 4	2 Finish1	Wood - Dimensional Lumber	22 mm	Vertical Nailer 🛛 🗸	Vertical Nailer	Fixed	~
Basic Wall ; EXC * PROAME-4	3 Structure	OSB	18 mm	Sheathing Y	None	Fixed	~
Basic Wall : Ext 1HorSiding - HS22-VN45-FR-	4 Structure	Softwood, Lumber	220 mm	Frame v	Frame	Variable	~
	5 Finish1	Wood Sheathing, Chipboard	13 mm	Sheathing II 🛛 🗸	None	Fixed	~
Basic Wall : Exterior - Block on Mtl. Stud					****		
< >	<						>
					Cancel	ОК	

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!

Family:	Basic Wall
Туре:	Ext - 16+220+16 C+U Ext 3
Total thickness:	318

L	а	5	/	e	r	s

				EXTERIOR SIDE					
	Function	Material	Thickness	Framing Layer		Framing Configuration		Configuration	Frame
1	Finish2	Wood - C24	45 mm	Horizontal Siding	~	Horizontal Siding	Ŷ	Fixed Y	✓
2	Finish1	Wood - Dimensional Lumber	22 mm	Vertical Nailer	~	Vertical Nailer	¥	Fixed Y	✓
3	Structure	OSB	18 mm	Sheathing	~	None	Ŷ	Fixed Y	
4	Structure	Softwood, Lumber	220 mm	Frame	~	Frame	¥	Variable 🗸	✓
5	Finish1	Wood Sheathing, Chipboard	13 mm	Sheathing II	~	None	Ŷ	Fixed V	
-									
<									>

Framing Layer

Family:	Basic Wall
Туре:	Ext - 16+220+16 C+U Ext 3
Total thickness:	318

Layers

_	<i></i>			EXTERIOR SID	E				
	Function	Material	Thickness	Framing Layer		Framing Configuration		Configuration	Frame
1	Finish2	Wood - C24	45 mm	Horizontal Siding	×	Horizontal Siding	Ŷ	Fixed Y	✓
2	Finish1	Wood - Dimensional Lumber	22 mm	Vertical Nailer	~	Vertical Nailer	~	Fixed Y	✓
3	Structure	OSB	18 mm	Sheathing	~	None	Ŷ	Fixed Y	
4	Structure	Softwood, Lumber	220 mm	Frame	~	Frame	¥	Variable 🛛 🗸	✓
5	Finish1	Wood Sheathing, Chipboard	13 mm	Sheathing II	*	None	v	Fixed Y	
<									>

Select which framing layer has to be created.

Possible options: Frame, Secondary Frame, Vertical/Horizontal Nailers, Vertical/Horizontal Sidings, Wood Logs, Paneling, and two Sheathing layers.

Framing Configuration

Family:	Basic Wall
Туре:	Ext - 16+220+16 C+U Ext 3
Total thickness:	318

Layers

	, cra			EXTERIOR SIDE				_	
	Function	Material	Thickness	Framing Layer	Fram	ing Configuration		Configuration	Frame
1	Finish2	Wood - C24	45 mm	Horizontal Siding 👻	Horiz	zontal Siding	Ŷ	Fixed Y	✓
2	Finish1	Wood - Dimensional Lumber	22 mm	Vertical Nailer 🛛 👻	Verti	cal Nailer	~	Fixed Y	✓
3	Structure	OSB	18 mm	Sheathing ×	No	one	V	Fixed Y	
4	Structure	Softwood, Lumber	220 mm	Frame v	Fram	e	×	Variable 🛛 🗠	✓
5	Finish1	Wood Sheathing, Chipboard	13 mm	Sheathing II 🛛 👻	No	one	V	Fixed Y	
					_				
<									>

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

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

Frame Wall	Update Frame Control C	Split Parts	Build Log Wall	Number Elements	Create Assembly	 Link Wall Configs Settings
Validate Walls		Wall+				
Vumber Walls						
Framing Configuration						
Frame Wall						
Add Secondary Frame						
Add Nailers						
Add Siding						
Frame Additional Layers						
Multi-Framing						
or						
	🔁 Update Frame	· 🖪			🖣 Link Wall	-
Frame Add/Modify Flaments	Delete Frame Modify Other •	Split Build	Number	Create	Configs •	
		Wall+	Liements	Assembly	Framin	g Configuration
					Sheath	ing Configuration
					Panelin	g Configuration
					Lo Details	Configuration
					Numbe	ering Configuration
					Drawin	g Configuration

The list of configurations:

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R Wall+. Default Fram	ning Parameters						—		×	
Material Class:	Wood	~								
Configuration Type:	Frame	~								
Configuration Name:	Frame	Ŷ	Save S	ave As	s Rename	Delete				
	^	Elements Mark Definitions	N	/lodify	Settings	Configu	ration Vi	sibility		
Common S	ettings	Configuration Settin	gs		Modify C	onfiguration S	ettings			
		Use for all Vertical Framing Elemen	ts (except Opening	js)						
Wall Framin	ng	Main Type of Studs			M_WF Stud LMBR 45x120)			Ŷ	
		Width (b)			4.5					
Opening Fra	aming	Depth (h,d)		12						
		Use for all Horizontal Framing Elem	ients (except Open	nings)						
L Connectio	on	Main Type of Plates			M_WF Plate LMBR 45x120					
		Width (b)			4.5					
End Connec	ction	Depth (h,d)			12					
		Define Depth (h,d) by Layer Thickn	ess		\checkmark					
V Connectio	on	Wall Frame Panels			\checkmark					
						Save	e	Clo	se	

Fixed or Variable Configuration

Fa Ty To	mily: pe: otal thickness: vers	Basic Wall Ext - 16+220+16 C+U Ext 3 318							
	,			EXTERIOR SID	Е				
	Function	Material	Thickness	Framing Layer		Framing Configuration		Configuration	Frame
1	Finish2	Wood - C24	45 mm	Horizontal Siding	¥	Horizontal Siding	Ŷ	Fixed Y	✓
2	Finish1	Wood - Dimensional Lumber	22 mm	Vertical Nailer	×	Vertical Nailer	¥	Fixed Y	✓
3	Structure	OSB	18 mm	Sheathing	~	None	V	Fixed Y	
4	Structure	Softwood, Lumber	220 mm	Frame	~	Frame	¥	Variable ^v	✓
5	Finish1	Wood Sheathing, Chipboard	13 mm	Sheathing II	~	None	V	Fixed Y	
<		·····							>

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:

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Frame Wall	Add/Modify Elements	Update Frame Delete Frame Modify Other •	Split Parts	Build Log Wall	Number Elements	Create Assembly	Link Wall
		<hr/>	Wall+				
	\backslash	\searrow	7				
		RS	Select		×		
		Please	e select Configuration:				
		Fran	ne		~		
			ОК	Canc	el		

Frame

Family:	Basic Wall									
Туре:	Ext - 16+220+16 C+U Ext 3									
Total thickness:	318									
Layers										
					EXTERI	OR SIDE				
Framing Layer	Framing Configuration		Configuratio	n	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts
Vertical Siding	Yertical Siding External-Internal	Ŷ	Fixed	۷	✓				None	✓
Horizontal Nailer	 Horizontal Nailers b=45 	~	Fixed	×	✓				None	✓
Sheathing	 None 	v	Fixed	×			✓		Frame - 1 Ex & 1 In Layers 🛛 🗸 🗸	
Frame	 Frame 	¥	Variable	×	✓				None	✓
Sheathing II	 None 	V	Fixed	×			✓		Frame - 1 Ex & 1 In Layers 🛛 🗸	
					· · · · ·					
<										>

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 nailer layers, but perhaps you only want to frame one of them.

Frame Part

Family Type: Total t Layers	y: thickness:	Basic Wall Ext 1HorSiding - HS22-VN4 255	5-FR-SFR45	-25H12					1			
F	unction	Material	Thickness	Framing Laver	Framing Configuration	SIDE	Frame	Frame Part	Solit Parts	Solit by	Sheathing/Paneling Configuration	Exclude Parts
0 Fi	nish2	by Category	0 mm	None *	None						None	1
1 1	nish2	Wood Horizontal Siding	22 mm	Horizontal Siding	Horizontal Siding	÷	~				None *	
2 Fi	nish1	Wood Vertical Nailers	45 mm	Vertical Nailer V	Vertical Nailer		~				None 👻	
3 St	ructure	Wood	120 mm	Frame v	Frame	÷	2				None *	
4 Su	ibstrate	Wood Secondary Frame	45 mm	Secondary Frame	Secondary Frame	¥					None *	
5 Fi	nish1	Wood Sheathing, Chipboar	12 mm	Sheathing *	None	Ψ.			2		Frame - 1 Ex & 1 In Layers *	
6 Fi	nish2	Wood Sheathing, Chipboar	12 mm	Sheathing II *	None	÷			2		Frame - 1 Ex & 1 In Layers V	

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:



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

Properties	×	Wall-	Load Families & Schedules Framing Configuration Wall Link	Frame Wall Update Frame Add Elements •	Multi-Framing Delete Frame Modify Frames *	Build Log Wall Cut Log Walls Modify Logs =	Sheathing Configuration Split Sheathing/Paneling Parts Modify Sheathing •	Shop Drawing Configuration Create Frame Assembly Shop Drawings +
Parts (1)	 III Edit Type 				v	/all+		<u></u>
Constraints								
Base Level	Level 0							
Construction						-		
Link to Connected Wall	10:							
Build in Place	10							
Framing Configuration	Horizontal Siding			5				
Part Detail Configuration					and the second s			
Dimensions	\$		-					
Volume	0.252 m ¹			-				
Length	7000.0							
Height	3000.0	-						
Excluded								
Shape is modified								
Identity Data	2							
Image								
Comments								
Mark								
Framing Member	1							
Framing Member Type								
Framing								
Framing Member Description								
FM SortMark	8							
Framing Layer								
Framing Member Mark								
FM HostMemberSortMark								
Framing Member Mass								
Framing Member Volume								
Show Shape Handles								

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

Family:

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

To	al thickness:	255								1			
coj	07					EXTERIOR S	SIDE						
	Function	Material	Thickness	Framing Layer		Framing Configuration		Frame	Frame Par	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts
0	Finish2	by Category	0 mm	None	٠	None	÷					None	1
1	Finish2	Wood Horizontal Siding	22 mm	Horizontal Siding	¥	Horizontal Siding	¥	-				None Y	✓
2	Finish1	Wood Vertical Nailers	45 mm	Vertical Nailer	٠	Vertical Nailer	¥	-				None ~	v
3	Structure	Wood	120 mm	Frame	٧.	Frame	~					None 🗸	
4	Substrate	Wood Secondary Frame	45 mm	Secondary Frame	۲	Secondary Frame	¥					None *	
5	Finish1	Wood Sheathing, Chipboan	12 mm	Sheathing	¥	None	Υ.					Frame - 1 Ex & 1 in Layers *	
6	Finish2	Wood Sheathing, Chipboar	12 mm	Sheathing II	۷	None	÷			2		Frame - 1 Ex & 1 In Layers v	

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, nailers, and so on) and a separate siding layer that is not split or can be split differently:



Split Parts

Family: Type: Total thick	Basic Wall Ext 3VerSidi mess: 234	ng - VS22-HN45-FR-SFR45-SH	12								
Layers					E	XTERIO	R SIDE				
Thickness	Framing Layer	Framing Configuration		Configuratio	on	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts
12 mm	Sheathing	None	\sim	Variable	~			✓		3. Horizontal 3000 _ Horizontal 🖡 👻	
45 mm	Horizontal Nailer 🕚	Horizontal Nailers b=45	~	Fixed	~	✓				None 🗸 🗸	✓
120 mm	Frame	Frame	~	Variable	~	✓				None ~	✓
45 mm	Secondary Frame	Secondary Frame	~	Fixed	~	✓			~	None ~	✓
12 mm	None	None	~	Fixed	~					None ~	✓
							•				
<											>

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.



Family:		Basic Wall											
Type:		Ext 3VerSic	ing -	VS22-HN45-FR-SFR45-SF	-112								
Total thick	ness:	234											
Layers													
							E	XTERIOF	R SIDE				
Thickness	Framin	g Layer	F	raming Configuration		Configuratio	on	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts
12 mm	Sheath	ing	~ -	- None	\sim	Variable	~			✓		3. Horizontal 3000 _ Horizontal 🖡 👻	
45 mm	Horizo	ntal Nailer	× ⊦	lorizontal Nailers b=45	~	Fixed	~	\checkmark				None Y	✓
120 mm	Frame		~ F	rame	~	Variable	~	✓				None ~	>
45 mm	Second	dary Frame	~ s	econdary Frame	~	Fixed	~	✓			~	None ~	>
12 mm	None	******************	~ -	- None	~	Fixed	~					None ~	\checkmark

c													
													1

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



Sheathing/Paneling Configuration

Family

Family:		Basic Wall											
Type:		Ext 3VerSi	ding	- VS22-HN45-FR-SFR45-SI	H12								
Total thick	ness:	234											
Layers													
			_				E	XTERIO	R SIDE				
Thickness	Framing	Layer		Framing Configuration		Configurati	on	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts
12 mm	Sheathir	ng	~	None	\sim	Variable	~			✓		3. Horizontal 3000 _ Horizontal N 🗠	
45 mm	Horizon	tal Nailer	~	Horizontal Nailers b=45	~	Fixed	~	✓				None 🗸 🗸	✓
120 mm	Frame		~	Frame	~	Variable	~	✓				None ~	✓
45 mm	Seconda	ary Frame	~	Secondary Frame	~	Fixed	~	✓			~	None ~	✓
12 mm	None		~	None	~	Fixed	~					None ~	✓

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

The list of sheathing/paneling configurations comes from here:



R Wall+. Sheathing Config		-		×
Configuration : Frame - 1 Ex & 1 In Layers 🗸	Save Duplicate Rename Delete			
Sheathing Dimensions	Sheathing Dimensions			
	Vertical Sheathing — Horizontal Sheathing —			
	Width 1200 Width 1200			
Sheathing Layout	Length 2000			
	Preview			
Division Profile				
		_		
Mark Settings				
Opening				
L Connection				
V Connection				
	ОК		Cance	el

Exclude Parts

Family: Type: Total thick	Basic Wal Ext 3VerSi ness: 234	l din	g - VS22-HN45-FR-SFR45-Sł	H12								
Luyers						E	XTERIO	R SIDE				
Thickness	Framing Layer		Framing Configuration		Configuration	n	Frame	Frame Part	Split Parts	Split by	Sheathing/Paneling Configuration	Exclude Parts
12 mm	Sheathing	~	None	\sim	Variable	~			✓		3. Horizontal 3000 _ Horizontal 🖡 👻	
45 mm	Horizontal Nailer	~	Horizontal Nailers b=45	~	Fixed	~	✓				None 🗸 🗸	\checkmark
120 mm	Frame	~	Frame	Ŷ	Variable	~	✓				None ~	
45 mm	Secondary Frame	~	Secondary Frame	~	Fixed	~	✓			-	None ~	✓
12 mm	None	~	None	~	Fixed	~					None ~	✓
<										A		>

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.



