Modified on: Sun, 7 Feb, 2021 at 8:53 PM

Framing Configuration may be found in two locations:

Frame	Add/Modify		🔁 Update Frame 🗙 Delete Frame	· •	Split	Build	Number		🖫 Link Wall
Wall	Elements		🖍 Modify Other 🔹		Parts *	Log Wall	Elements	Assembly	📰 Settings 🔹
Valie	date Walls			W	all+				
	mber Walls								
EB EB EB OP Fran	ming Configuratio	n							
Frar	me Wall								
Add	I Secondary Frame	2							
Add	Nailers								
م م	l Siding								
Fran	me Additional Laye	ers							
Mul	lti-Framing								
or:									
			 Update Frame Delete Frame 			₹ _	E10		Link Wall
Frame Wall	Add/Modify Elements		Modify Other 🔹	Wall+	Split Parts Lo	Build og Wall	Number Elements A	Create ssembly	Framing Configurat
								Ē	Sheathing Configura
								E	Paneling Configurat
								L	Details Configuratio
								Ĵ	Numbering Configu

- 1. Choose Framing Configuration from Wall+ menu.
- 2. Choose Configuration Type that corresponds to framing layer of the wall.
- 3. Select L Connection, End Connection, V Connection or T Connection.

WIN

Drawing Configuration

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	A L - Outer Corner B - Outer Corner L - Inner Corner B - Inner Corner
Common Settings	Frame Extension Parameters
	Framing End Extension 0
Wall Framing	
	♥ Plate Parameters
	Bridging Parameters
Opening Pranting	Connect Bridging/Nogging to External End Connection Joist/Stud
	Custom Join —
L Connection	
	Predefined Layout Name: Default Configuration Save to Database Duplicate Delete
End Connection	Select Layout from Database Configuration: Select v Link with Config
	New Item Remove Item Move Up Move Down
V Connection	X-Position Count Type Define Rotate Flip
	Depth 90° Facing
T Connection	
	v < >

L Connections, End Connections, and T Connections are supplemented with options that bring further flexibility for predefining outer corners, B (Butt) outer corners, inner corners, or B (Butt) inner corners.

^	L - Outer Corner B - Outer Corner L - Inner Corner B - Inner Corner			
Common Settings	Frame Extension Parameters Framing End Extension 0			^
Wall Framing	V Plate Parameters			
Opening Framing	Bridging Parameters Connect Bridging/Nogging to External End Connection Joist/Stud			
L Connection	Custom Join Configuration Predefined Layout Name: <i>Default Configuration</i> Save to Database Du	ıplicate	Delete	
End Connection	Select Layout from Database Configuration: Select New Item Remove Item Move Up Move Down	~	Link w	ith Confi <u>c</u>
V Connection	X-Position Count Type	Define Depth	Rotate 90°	Flip Facing
	1 Standard × 1 ← M_WF Stud : LMBR 45x120 ×	✓		
T Connection	2 Standard v 1 - M_WF Stud : LMBR 45x120 v	✓	✓	
× •	<			>

Wall+ recognizes inner and outer corners so that you can adjust different joins. It gives you more flexibility in modeling and easily handles complex situations:



Example with inner corner: You can predefine and change Butt connections

Butt Inner corner



Framing End Extension

	Free Start Free End Start Connection End Connection						
Common Settings	Frame Extension Parameters						
	Framing End Extension -100						
Wall Framing	Plate Parameters						
Opening Framing	Bridging Parameters Connect Bridging/Nogging to External End Connection Joist/Stud						
L Connection	Custom Join Configuration Predefined Layout Name: Default Configuration Save to Database Duplicate Delete						
End Connection	Select Layout from Database Configuration: Select ·· Link with Configuration: New Item Remove Item Move Up Move Down Move Down Move Down Remove Item Move Up Move Down <						
V Connection	X-Position Count Type Define Rotate Flip Depth 90° Facing						
T Connection	Symbolic Preview						

Framing End Extension - makes frame offset from the wall connection.



Lengthen Top/Bottom Plates

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^	Free Start Free End Start Connection End Co	onnection					
Common Settings	~ Frame Extension Parameters^						
	Framing End Extension	-100					
Wall Framing							
	Plate Parameters						
	Top Plate						
Opening Framing	Count Type	Split or Shorten Up to Stud	Lengthen Top/	Build in Link to			
		up to stud	Bottom Plates	Place Connected Wall			
	1 2 - M_WF Plate : LMBR 45x120	Split Y None Y	50 mm				
L Connection	Bottom Plate						
	Count Type	Split or Shorten	Lengthen Top/	Build in Link to			
End Connection		up to Stud	Bottom Plates	Place Connected Wall			
	1 2 - M_WF Plate : LMBR 45x120 V	Split Y None Y	70 mm				
	·						
V Connection	~ Bridging Parameters						
V connection	Connect Bridging/Nogging to External End Co	onnection Joist/Stud					
	- Custom Join						
	Configuration						
v v	<			>			

Lengthen Top/Bottom Plates - makes top and bottom plate offset from the wall connection.



Split or Shorten up to Stud

^ ^	Free Start Free End Start Connection End Connection					
Common Settings	~ Frame Extension Parameters^					
	Framing End Extension -100					
Wall Framing	Plate Parameters					
	Top Plate					
Opening Framing	Count Type Split or Sup to St	horten ud Up to Stud	Lengthen Top/ Bottom Plates	Build in Place	Link to Connected Wall	
	1 2 🔶 M_WF Plate : LMBR 45x120 🗸 Split	Y None Y	0 mm			
L Connection	Bottom Plate					
	Count Type Split or up to St	Shorten ud Up to Stud	Lengthen Top/ Bottom Plates	Build in Place	Link to Connected Wall	
End Connection	1 2 M_WF Plate : LMBR 45x120 V Split	~ 3 ~	0 mm			
V Connection	Bridging Parameters Connect Bridging/Nogging to External End Connection	Joist/Stud	-			
T Connection	Custom Join Configuration Configuration	1.			~ >	

Split or Shorten up to Stud – splits or makes the top/bottom plates shorter.

Up to Stud – select the number of the stud where the top/bottom plates should be split or shortened.

E.g Bottom plates are split at the second from the right stud:



E.g. Bottom plate is split at the third stud from the right.



Build in Place and Link to Connected Wall

FRAMING CONFIGURATION – L, T, V, End Connections : AGACAD

^	Free Start Free End Start Connection End C	onnection					
Common Settings	- Frame Extension Parameters						
	Framing End Extension	-100					
Wall Framing							
	Plate Parameters						
	CTop Plate						
Opening Framing	Count Type	Split or Shorten up to Stud	Lengthen Top/ Bottom Plates	Build in Place	Link to Connected Wall		
	1 2 - M_WF Plate : LMBR 45x120 V	Split × None ×	0 mm				
L Connection	Bottom Plate						
	Count Type	Split or Shorten up to Stud	Lengthen Top/ Bottom Plates	Build in Place	Link to Connected Wall		
End Connection	1 2 - M_WF Plate : LMBR 45x120	Split × 3 ×	0 mm		✓		
V Connection Connect Bridging/Nogging to External End Connection Joist/Stud							
T Connection	Custom Join Configuration	r			~ >		

Build in Place – writes Yes/No information into the plate instance parameter if plate is build-in-place or is prefabricated with the whole wall frame.

Link to Connected Wall – option if the plate is near a wall corner and such an element should be prefabricated and connected to the connecting wall.

A plate like this will have Link to Connected Wall or Build in Place parameter switched ON:

Properties	×				
M_WF Plate LMBR 45x20	0				
vz lustification					
y lustification	Origin				
y Offset Value	0.0				
z Justification	Origin				
z Offset Value	0.0				
Construction	*		- 🐴 👘		\geq
#d	200.0				
Build in Place	<				
Insert_Left					
Insert_Right	<				
Row	1				
Link to Connected Wall	✓		-		
Assembly Mass					
Element Mass					
Assembly Created-Upd					

Custom Join

Common Settings Wall Framing	Free Start Free End Start Connection Custom Join
Opening Framing	New Item Remove Item Move Up Move Down X-Position Count Type Define Depth Rotate 90° Flip Facing Spacing
L Connection	1 Standard ∨ 1 M_WF Stud : LMBR 45x120 ∨ ✓ □ 0 mm Symbolic Preview
End Connection	
V Connection	
T Connection	
Ridge Stud	

Custom Join – is a multi-functional dialog where user can define rules for joins including size, count, position, rotation, spacing, alignment etc. All these rules can be saved and used in other framing configurations or shared with other users. This type of dialog is used frequently in our products, so here you can find **Custom Join detailed description** >> (https://agacad.freshdesk.com/support/solutions/articles/44001990031-custom-join)

Default path to database with join configurations is:

C:\Users\user name\AppData\Roaming\Tools 4 Revit\Wall+2020 (or other version) Configurations\CustomFramingJoins

퉬 « renata.jociene	► A	ppData → Roaming → Tools 4 Revit → Wall+2	2020 Configurations →	CustomFramingJoins	⊧ L	~ C
	^	Name	Date modified	Туре	Size	
		📓 Default Configuration.xml	2019-04-05 09:26	XML File	3 KB	
5						

You can also modify the path to all configurations in Configuration Files' Location.

Samples of various joins

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FRAMING CONFIGURATION - L, T, V, End Connections : AGACAD



End Connection – Start/End Connection

Start/End Connection - predefine different start and end connections for a wall.

FRAMING CONFIGURATION – L, T, V, End Connections : AGACAD

	∧ Free Start Free End Start Connection End Connection	
Common Settings	Frame Extension Parameters Framing End Extension	^
Wall Framing	Plate Parameters	
Opening Framing	Connect Bridging/Nogging to External End Connection Joist/Stud	
L Connection	Custom Join Configuration Predefined Layout Name: Default Configuration Save to Database Du	plicate Delete
End Connection	Select Layout from Database Configuration: Select New Item Remove Item Move Up Move Down	 Link with Configuration
V Connection	X-Position Count Type 1 Standard ~ 1 M_WF Stud : LMBR 45x120 ~	Define Rotate Flip Spacing Depth 90° Facing Omm
T Connection	Symbolic Preview	
Ridge Stud		
Blocking/Nogging		~
	V	/

Example:



V Connection

Framing End Extension – an offset from the wall end.

FRAMING CONFIGURATION – L, T, V, End Connections : AGACAD

	V L - Outer Corner V B - Outer Corner V L - Inner Corner V B - Inner Corner				
Common Settings	Frame Extension Parameters				
	Framing End Extension -50				
Wall Framing	Recalculate by Connection Angle				
	Framing End Extension 0				
Opening Framing	Recalculate by Bisecting Angle				
	Plate Parameters				
L Connection	Bridging Parameters				
	Connect Bridging/Nogging to External End Connection Joist/Stud				
End Connection	Custom Join				
	Configuration — Predefined Lavout Name: Default Configuration Save to Database Duplicate Delete				
V Connection	Select Layout from Database Configuration: Select V Link with Config				
	New Item Remove Item Move Up Move Down				
T Connection	X-Position Count Type Define Rotate Flip Depth 90° Facing				
M.	1 Standard ∨ 1 → M_WF Stud : LMBR 45x120 ∨ ✓ □				
Ridge Stud	< · · · · · · · · · · · · · · · · · · ·				

Example with V Connection:



V Connection types

You can select different connection types from the list and then make a custom type.

If you select V1Y0X type, then use M_Wall_Frame RV_NA Stud family (in Metric projects) or I_Wall_Frame RV_NA Stud family (in Imperial projects).

Result:



Miter Plates

^	VL - Outer Corner VB - Outer Corner VL - Inner Corner VB -	Inner Corner			
Common Settings	Frame Extension Parameters	^			
	Framing End Extension	0			
Wall Framing	Recalculate by Connection Angle				
	Framing End Extension	0			
Opening Framing	Recalculate by Bisecting Angle				
	Plate Parameters				
L Connection	Miter Plates for Mitered Walls				
	lop Plate				
End Connection	Count Type Split or Shorte up to Stud	n Up to Stud Lengthen Top/Bott			
	1 2 M_WF Plate : LMBR 45x120 V Split	v None v 0 mm			
	Bottom Plate				
V Connection T Connection	Count Type Split or Shorte up to Stud	n Up to Stud Lengthen Top/Bott			
	1 2 - M_WF Plate : LMBR 45x120 V Split	V None V 0 mm			
		v			
	<	>			

Miter Plates for Mitered Walls - informs that top/bottom plates will be mitered for mitered walls.

Mitered walls:



Wall+ makes mitered top/bottom plates:



Disallow Join Walls

Let's say we have a situation when a wall is connected in the plan view, but it disallowed to join in Revit. By default, **Wall+** will recognize this situation as T connection:



To solve this, select joiner wall and find instance or type parameter **Ignore Disallowed Joint Connection**, make it ON. If it has such parameter with value = ON, T join will not be created.

Update Frame	Type Propertie	25		×
metry Frame Add/Modify Detect frame Spl Wall Elements Modify Other Part	Family:	System Family: Basic Wall	~	Load
	Type:	Generic - 200mm - Filled	~	Duplicate
				Rename
	Type Parame	eters		
		Parameter	Value	= ^
	Constructi	ion		*
	Structure		Edit	
	Wrapping	at Inserts	Do not wrap	
	Wrapping	at Ends	None	
	Width		120.0	
	Function	e	Exterior	
	Framing Co	onfiguration		
		t Configuration		
	Smart Asse	mbly Configuration		
	Graphics			\$
	Coarse Sca	le Fill Pattern	<solid fill=""></solid>	
	Coarse Sca	ile Fill Color	RGB 192-192-192	
	Materials a	and Finishes		\$
	Structural I	Material	<by category=""></by>	
	Analytical	Properties		\$
	Heat Trans	fer Coefficient (U)		
	Thermal Re	esistance (R)		
	I Thermal m	855		· · · · · · · · · · · · · · · · · · ·
	What do the	se properties do?		
1:100 🖾 🗇 🔅 🕼 🗟 🏷 9 🔅 卿 🖾 <	<< Previe	ew	OK Cancel	Apply

Go to **Wall+** \rightarrow **Update Frame** \rightarrow no more T connection:

