FRAMING CONFIGURATION – Opening Framing – Edit

Modified on: Sun, 27 Dec, 2020 at 8:22 PM

AE1 U) 🔁 Update Frame 🔄 Link Floor E10 Delete Frame 🙆 Configs 🔻 Frame Add/Modify Split Number Create Modify Other 🔻 🗄 Settings 🔻 Floor Elements Parts Elements Assembly F1 F10 Floor+ Number Floors ահ Framing Configuration ∎© NI Frame Floor Add Secondary Frame Add Battens Add Flooring Frame Additional Layers Multi-Framing or: €1 E10 Wh I 🔄 Link Floor Update Frame ĦI⊟ 🙆 Configs 🔹 Delete Frame Split Add/Modify Number Create Frame Modify Other ▥▥ Floor Elements Parts Elements Assembly Framing Configuration Floor+ Sheathing Configuration Paneling Configuration Details Configuration Numbering Configuration

Framing Configuration may be found in two locations:

Edit Opening Framing Configuration

In order to edit, create new, rename, or delete opening framing configuration, you have to click **Edit Configuration** for the structural or non-structural walls:

Drawing Configuration

ow Framing	Door Framin	ng Opening Framing Window - Window Join Framing	g Window - Doo	or Join Framing
K 🖭 Edit	Configuration	5		
-structural \	Valls. Width of	Openings:		
From	То	Configuration	Preassembled	Opening Elemen Preassembled
0	1500	M_Window Non-bearing Framing Y		
1500	10000	M_Window Non-bearing Framing 1501 ×		
1500	10000 Configurations Width of Oper	M_Window Non-bearing Framing 1501 ×		
1500	10000 Configurations Width of Oper To	M_Window Non-bearing Framing 1501	Preassembled	Opening Elemen Preassembled
1500	10000 Configurations Width of Open To 1000	M_Window Non-bearing Framing 1501	Preassembled	Opening Elemen Preassembled
1500 Edit Etural Walls. From 0 1000	10000 Configuration: Width of Oper To 1000 1500	M_Window Non-bearing Framing 1501 × S Inings: Configuration M_Window Bearing Framing × M_Window Bearing Framing 1001 ×	Preassembled	Opening Elemen Preassembled

Default configurations will come together with the software. Default path to opening configurations is: C:\Users\user name\AppData\Roaming\Tools 4 Revit\Wall+M(version) Configurations\Framing Configurations\Metric or Imperial\Configuration name\

It saves all the settings of kings, headers, top supports, sills, trimmers, other studs that are listed down below in the dialog:

Wall+M	. Window Fram	ning. Non	-structural Walls					_		×
nfiguration Name: M_Window Non-bearing Framing v Save Save As Rename Delete										
g Stud	Custom Head	ler Cust	om Top Support Custom Sill Trimr	ner Othe	r Studs	Offsets				
ing Left	& Right									^
Custo Custo Read L Confi Prede	e symmetrical m Join .ayout from Da guration efined Layout N / Item Remo	▼ tabase: [lame: D ve Item	Select v efault Configuration Save to Databas Move Up Move Down	se Dupl	icate	Delete				
	X-Position	Count	Туре	Depth by Core	Rotate 90	Rotate 180	Spacing	Position	Align Type	2
1	Standard Y	1 🔶	M_MF C+C Stud : C10251-15 V	~		~	0 mm	Center v	None	~
_ Symb	olic Preview —						[Save	Clos	> ~

King Stud

7/9/2021

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	Custom Head	der Cu	stom Top Support	Custom Sill	Trimmer	Othe	r Studs	Offsets			
ng Left	& Right										
ngs ar	e symmetrical	v									
Custo	m Join										
Read L	.ayout from Da	tabase:	Select		v						
Confi	guration ——		L								
Prede	efined Layout N	Name:	Default Configurat	ion Save to D	atabase	Dupli	cate	Delete			
New	ltem Remo	ove ltem	Move Up M	ove Down							
X-Position Count Type				De	epth / Core	Rotate 90	Rotate 180	Spacing	Position		
1	Standard × 1 A M ME C+C Stud : C10251-15 ×							Cantan			
C. una h	Standard •	· · ·	M_MF C+C Stud	I : C10251-15	*	<u>~</u>			0 mm	Center	~
Symb	oolic Preview –		M_MF C+C Stud	1: C10251-15							

King Stud - in this tab you will find all settings for creating king studs needed for the opening.

Kings are symmetrical – switch this OFF if kings should be different in the left and right sides.



Custom Join

Тор	Top Cripple Trimmer Bottom Cripple Trimmer Cripples Offe				Offsets										
King Stud Custom				om H	Header Custom Top Support						Custon		Trimmer		
ing Left	& Right]													
Kings ar	e symme	trical	~												
Custon	n Join —														
Confi	guration														
Prede	- efined Lay	out N	ame: D)efa	ult Con	figura	tion Sav	/e to Dat	tabase	Du	plicate	Renam	e (Delete	
						-									1
Selec	t Layout f	irom D	atabase	Cor	nfigura	tion:	Select				~				
New	/ Item	Remov	/e ltem	N	love U	p N	love Dov	vn							
	X-Positio	on	Count	Тур	e						Define Depth	Rotate 90°	Rotate 180°	Flip Facing	Spacing
1	Standard	d V	1 🜲		M_MF	C+C S	Stud : C1	0251-15		~	~				0 mm
Symb	olic Previ	ew —													
													m		

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)

Rotate 180 – rotates the selected stud by 180 degrees. This option is important when the stud is not symmetrically shaped. For rectangular studs this option usually is not used.







Custom Header, Custom Sill

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2021					C Oponin	.9				
Top Cripple	Trimmer	Bott	om Crippl	e Trimmer		Cripples		Offsets		
King Stud	Custom H	leader	Custo	m Top Suppor	t	Custom S	ill 👘	Trimmer		
Additional Para	ameters							/		
Custom Join										
Read Layout fr	rom Database C	onfiguratio	n: Sele	ct		~				
Configuration	n ———									
Predefined La	ayout Name: D	efault Con	figuration	Save to Datab	ase Du	uplicate	Dele	te		
New Item	Remove Item	Move Up	Move	Down						
X-Posit	ion Count	Туре			Define Depth	Rotate . 90°	Rotate 180°	Spacing		
1 Standa	rd 🗸 1 🜲	M_MF C+	C Plate : C	10251-15 ×	~			0 mm		
- Symbolic Pre	view									
<								>		

Example:



Sample with C+C window header (Section view):



C+U system – Clark Dietrich Red Header RO (3D view):





C+U system - Clark Dietrich HDS window header (3D view):





Custom Top Support

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Top Cripple	Trimmer	Bott	tom Cripple Trimmer		Cripples		Offsets		
King Stud Custom Header			Custom Top Suppor	t	Custom	Sill	Trimmer		
Custom Join Read Layout fre	om Database C	onfiguratio	on: Select		¥		^		
Configuration Predefined La	yout Name: <i>L</i>	efault Cor	nfiguration Save to Data	base	Duplicate	Del	ete		
New Item	Remove Item	Move U	p Move Down						
X-Positi	on Count	Туре		Define Depth	Rotate 90°	Rotate 180°	Spacing		
1 Standar	rd 🗸 1 🜲	M_MF C+	+C Plate : C10251-15 ×	~			0 mm		

Custom Top Support – place where user can control opening top support.



Trimmers



Trimmer Type – defines how the trimmer is positioned relative to opening Sill, Header, Top Plate, Bottom Plate, Top Plate Support, Split Sill, or a Split Header.

		Offsets		
King Stud Custom Header Custom Top Support Cu	stom Sill	Tri	mmer	
Trimmer Left & Right			^	
Trimmers are symmetrical				
Extend Sill&Header				
Extend Header				
Level Suggest Stud/Joint if extended				
Insert Support Stud/Joist if extended				
Francis Trimmer 16 in comparison to Comparison de Trimmino de la la comissione 📝				
Extend frimmer if it connects to lop support and frimming Joist is missing				
Custom Join				
Configuration				
Predefined Layout Name: Default Configuration Save to Database Duplicate Re	ename D	elete		
Select Layout from Database Configuration: Select Y				
New Item Remove Item Move Up Move Down				
X-Position Count Trimmer Type Type	Define Depth	Rotate 90°	Rotate 180°	
1 Standard ∨ 1 🗢 Bottom Plate ∨ M_MF C+C Stud : C10251-15	× 🗸			
Bottom Plate to Header				
Symbolic Preview Bottom Plate to Top Plate				
Bottom Plate to Top Plate Support				
Sill to Header				
Sill to Top Plate				

Example: Trimmer goes from Bottom Plate to Header:



Example: Trimmer goes from **Bottom Plate** to **Top Plate**:

Example: Trimmer goes from Bottom Plate to Top Plate Support:



Example: Trimmer goes from Sill to Header:



Example: Trimmer goes from Sill to Top Plate:



Extend Header - extends the Header if Bottom Plate to Header, Sill to Header is selected near Trimmer Type.

Trimmer Left & Right	
Trimmers are symmetrical	\checkmark
Extend Sill&Header	
Extend Header	✓
Insert Support Stud/Joist if extended	

Result:



Extend Sill/Header – extends Sill and Header if Sill to Header is selected near Trimmer Type.

Top Cripple Tri	Top Cripple Trimmer Bottom Cripple				Cripples			Offsets		
King Stud	Custom	Header	Custom Top Support		Custom	Sill	Trimmer			
Trimmer Left & Right]								^	
Trimmers are symme	Trimmers are symmetrical									
Extend Sill&Header			\checkmark							
Extend Header										
Insert Support Stud/	oist if extended									
Extend Trimmer if Custom Join — Configuration —	it connects to To	op Support and T	Trimming Joist is missing 🔽						=	
Predefined Layou	t Name: Defau	lt Configuration	Save to Database Duplic	ate Rer	name	Delete				
Select Layout from	n Database Conf	figuration: S	elect	~						
New Item Ren	nove Item M	ove Up Move	Down							
X-Position	Count Trim	imer Type	Туре		Define Depth	Rotate 90°	Rotate 180°	Flip Facing	Spa	
1 Standard	v 1 🔷 Sill 1	to Header 🛛 👻	M_MF C+C Stud : C10251	-15	✓				0 mi	

Result:



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Top Cripple Trimmer Bottom			om Cripple Trimmer	Cripples		Offsets				
King Stud	Custom	Header	Custom Top Support	Custom	Sill	Trimmer				
immer Left & Ri	ght						4			
Trimmers are symmetrical										
Extend Sill&Header										
xtend Header										
nsert Support St	ud/Joist if exter	nded		✓						
Extend Trimme	er if it connects	to Top Suppo	rt and Trimming Joist is missi	ng 🗸						
Extend Trimme	er if it connects	to Top Suppo	rt and Trimming Joist is missi	ng 🗸						
Extend Trimme Custom Join —	er if it connects	to Top Suppo	rt and Trimming Joist is missi	ng 🗸						
Extend Trimme Custom Join — Configuration	er if it connects	to Top Suppo	rt and Trimming Joist is missi	ng 🗸			_			
Extend Trimme Custom Join Configuration Predefined Lay	er if it connects	to Top Suppor	rt and Trimming Joist is missi uration Save to Database	ng 🔽 Duplicate Ren	name	Delet				
Extend Trimme Custom Join — Configuration Predefined Lay	er if it connects	to Top Suppo Default Configu	rt and Trimming Joist is missi uration Save to Database	ng 🗹 Duplicate Rei	name	Delet	e			
Extend Trimme Custom Join — Configuration Predefined Lay Select Layout	er if it connects yout Name: D	to Top Suppor Default Configu Configuration	rt and Trimming Joist is missi uration Save to Database	ng 🔽 Duplicate Rei	name	Delet	e			
Extend Trimme Custom Join — Configuration Predefined Lay Select Layout	er if it connects yout Name: D from Database Remove Item	to Top Suppor Default Configu Configuration Move Up	rt and Trimming Joist is missi uration Save to Database	ng 🔽 Duplicate Ren	name	Delet	e			
Extend Trimme Custom Join Configuration Predefined Lay Select Layout	er if it connects yout Name: D from Database Remove Item	to Top Suppor Default Configu Configuration Move Up	rt and Trimming Joist is missi uration Save to Database	ng 🔽 Duplicate Rei	name	Delet	e			
Extend Trimme Custom Join Configuration Predefined Lay Select Layout New Item	er if it connects yout Name: D from Database Remove Item on Count	to Top Support	rt and Trimming Joist is missi uration Save to Database	ng 🔽 Duplicate Rei	name	Delet	e			
Extend Trimme Custom Join Configuration Predefined Lay Select Layout New Item X-Positio	er if it connects yout Name: D from Database Remove Item on Count	to Top Suppor Default Configu Configuration Move Up Trimmer Type	rt and Trimming Joist is missi wration Save to Database	ng 🔽 Duplicate Ren	name	Delet Rotate 90°	e Rotate 180°			
Extend Trimme Custom Join Configuration Predefined Lay Select Layout New Item X-Position 1 Standar	er if it connects yout Name: D from Database Remove Item on Count d v 1 🗲	to Top Suppor Default Configu Configuration Move Up Trimmer Type Sill to Heade	rt and Trimming Joist is missi uration Save to Database	ng 🔽 Duplicate Rei	name	Delet Rotate 90°	e Rotate 180°			

Insert Support Stud/Joist if extended – inserts support stud/joist to the opening if Extend Sill&Header is switched on.

Result:



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Top Cripple Tr	rimmer	Bottor	m Cripple Trimmer	Cripples	Cripples			
King Stud	Custom	Header	Custom Top Support	Custor	Custom Sill			
immer Left & Rig	ght							
frimmers are sym	metrical			✓				
xtend Sill&Head	ler			\checkmark				
xtend Header								
nsert Support Sti	ud/Joist if exter	nded		\checkmark				
Extend Trimme Custom Join —	r if it connects	to Top Support	and Trimming Joist is miss	ing 🗸				
Extend Trimme Custom Join Configuration Predefined Lay	r if it connects yout Name: D	to Top Support efault Configui	and Trimming Joist is miss	ing 🔽 Duplicate	Rename	Delet	e	
Extend Trimme Custom Join Configuration Predefined Lay Select Layout f	r if it connects yout Name: D	to Top Support efault Configur Configuration:	and Trimming Joist is miss ration Save to Database	ing 🔽 Duplicate I	Rename	Delet	e	
Extend Trimme Custom Join Configuration Predefined Lay Select Layout f	r if it connects yout Name: D from Database Remove Item	to Top Support efault Configur Configuration: Move Up	and Trimming Joist is miss ration Save to Database	ing 🔽 Duplicate I	Rename	Delet	e	
Extend Trimme Custom Join Configuration Predefined Lay Select Layout f New Item X-Positio	r if it connects yout Name: D from Database Remove Item on Count	to Top Support efault Configur Configuration: Move Up Trimmer Type	and Trimming Joist is miss ration Save to Database	ing 🔽 Duplicate I	Rename Define Depth	Delet Rotate 90°	e Rotate 180°	

Extend Trimmer if it connects to Top Support and Trimming Joist is missing – extends trimmer ends if there is no King/Trimming Studs/Joists and **Trimmer Type = Bottom Plate to Top Plate Support**.

Also top support needs to be without extended ends:

King Stud	Custom Header	Custom Top Support	Custom Sill	Trimmer	Top Cripple	Trimmer	Botton	n Cripple	Trimmer	Cripples 0	fsets			
Custom	Custom Join													
Config	- Configuration													
Prede	fined Layout Name	: Default Configuratio	n Save to Da	tabase D	uplicate	Delete								
		-												
Select	Layout from Datab	ase Configuration:	Select		× [Link w	ith Confi	guration						
New	Item Remove Ite	m Movella Mo	e Down											
INEW	Item Kentove ite		ebown											
	X-Position Cou	int Type			Define Depth	Rotate 90°	Rotate 180°	Flip Facing	Spacing	Position	Align Type	Extend Start	Extend End	Cuts
1	1 Standard ∨ 1													
- Symbo	Symbolic Provinu													
- Synno	- Symbolic Freview -													
														~
<														>

Result when is switched OFF:



Result when is switched ON:



Top/Bottom Cripple Trimmer

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King Stud	Custom H	Custom Header Custom Top Supp				Custom Sill		Trimmer		
Top Cripple T	Top Cripple Trimmer Bottom Cripple Trimmer					s		Offsets		
Top Cripple Trimm	Top Cripple Trimmer Left & Right									
Trimmers are sym Custom Join Configuration Predefined Lay Select Layout f	Trimmers are symmetrical Custom Join Configuration Predefined Layout Name: Default Configuration Save to Database Duplicate Rename Delete Select Layout from Database Configuration: Select New Item Remove Item Move Item Move Item Move Down									
X-Positio	on Count	Гуре		Define Depth	Rotate 90°	Rotate 180°	Flip Facing	Spacing		
1 Standard	1 Standard ∨ 1 → M_MF C+C Stud : C10251-15 ✓ □ □ 0 mm									
<										

Trimmers are symmetrical – switch this OFF if trimmers should be different on the left and right sides.



Cripples

		FRAM	ING CONFIGURATION -	Opening Fi	aming – i		ACAD	
King Stud	Custom I	Header	Custom Top Suppo	ort	Cust	om Sill	_	Trimmer
Top Cripple Tr	immer	Botto	m Cripple Trimmer		Cripples 0			
op and Bottom Ci	ripples							
Top and Botton	n Cripples are E	qual	\checkmark					
Define Top Crip	ple Studs/Joists	s by Spacing	\checkmark					
Spacing Type			Centered				~	
Spacing of Top	Cripple Studs/J	oists	600					
Number of Top	Cripple Studs/.	loists	1				A V	
Diagonal Placin	g of Top Crippl	e Studs/Joists						
Diagonal Crippl	e Panel Type		Pratt v					
Offset in Conne	ctions		0					
Custom Join —								
Configuration				_		1		
Predefined Lay	out Name: St	ud Save to Da	itabase Duplicate	Rename		elete		
Select Layout f	rom Database (Configuration:	Select		~			
New Item	Remove Item	Move Up	Move Down					
		F		D. C.			F 11	
X-Positio	on Count	Туре		Define Depth	Kotate 90°	Rotate 180°	Flip Facing	Spacing
1 Center	· 1 🕹	M_MF C+0	C Stud : C10251-15	~				0 mm

Top and Bottom Cripples are Equal - if ticked OFF, then two tabs appears which allows to control top and bottom cripples separately.

Define Top Cripples Studs/Joists by Spacing – if ticked ON, then you can predefine Spacing Type and Spacing of Top Cripple Studs/Joists. If unticked, then the software calculates the distance between top cripples automatically. You just need to define a Number of Top Cripple Studs/Joists.

Number of Top Cripple Stud = 2

Spacing of Top Cripple Studs = 300





Spacing Type – defines different spacing arrangement options:

Top and Bottom Cripples	
Top and Bottom Cripples are Equal	✓
Define Top Cripple Studs/Joists by Spacing	\checkmark
Spacing Type	Centered ×
Spacing of Top Cripple Studs/Joists	Centered
Number of Top Cripple Studs/Joists	From Start From End
Diagonal Placing of Top Cripple Studs/Joists	Maximal Spacing
Diagonal Cripple Panel Type	Centered Maximal Spacing
Offset in Connections	Centered Cripple

Note: **Define Top Cripples Studs/Joists by Spacing** will work if **Automatically Align Opening Cripples with Studs** is switched OFF near **Common Settings**. If it is ticked ON, then the cripples will be aligned with the main framing studs.



Automatically Align Opening Cripples with Studs is switched ON:



Diagonal Placing of Top Cripple Studs/Joists - select this option if you would like to use diagonal top cripples.

Diagonal Cripple Panel Type – possible options: Warren or Pratt.

https://agacad.freshdesk.com/support/solutions/articles/44001791052-framing-configuration-opening-framing-edit-

Offset in Connections – distance between diagonal cripples.



C+C Chamfered Warren diagonal cripples above the window



Sample C+U Special Warren diagonal cripples above the window:



Offset

Opening Top, Bottom, Left, Right Offset – offsets frame in all preferred directions.

King Stud	Custom Header		Custom Top Support	Custom Sill	Trimmer
Top Cripple Trimmer		Bot	tom Cripple Trimmer	Cripples	Offsets
Opening	Top Offset	2			
Opening Bottom Offset		2			
Opening Left Offset		3			
Opening Right Offset					

