## ALIGN/TRIM/EXTEND – Split Elements

Modified on: Sat, 9 Jan, 2021 at 5:15 PM

## **Split Elements**



Split Elements – features for splitting joists, rim joists, bridging/nogging elements by different rules.

## **Split Rim Joists Automatically**

III Split Elements	×
Split Rim Joists Automatically	
Split Rim Joists Automatically for All Frames	
Split Rim Joist Manually	
Split Bridging/Nogging	
Delete Splits	
Split Joist	
Delete Joist Split	

**Split Rim Joists Automatically** – splits rim joists for selected floor according to predefined settings in **Framing Configuration**.

Split settings come from Configs  $\rightarrow$  Framing Configuration  $\rightarrow$  Common Settings  $\rightarrow$  Modify Configuration Settings tab:

	Configuration Settings Modify Configuration Settings Elements Mark De	efinitions Modify Settings
Common Settings	Minimal Bridging/Stud/Joist Length	25
Floor Framing	Split the Flooring Strip if Width is less than	20
Floor Framing	Minimal Flooring Support Width for the Last Row	12.7
	Minimal Length of Split Rim/Joist	1000
Opening Framing	Maximal Length of Split Rim/Joist	6000
×	Maximal Length of Cover Plate/Joist	6000
End Connection	Offset Distance of Split	300
	Special Split Rule	

Minimal/Maximal Length of Split Rim/Joist - predefines min/max length for splitting rim joists.

Also, pay attention to Offset Distance of Split parameter in Configs  $\rightarrow$  Framing Configuration  $\rightarrow$  Common Settings  $\rightarrow$  Modify Configuration Settings tab:

	^	Configuration Settings Modify Configuration Settings Elements Mark Defin	nitions Modify Settings		
Common Settings		Minimal Bridging/Stud/Joist Length	25		^
Floor Framing		Split the Flooring Strip if Width is less than	20		
Floor Framing		Minimal Flooring Support Width for the Last Row	12.7		
		Minimal Length of Split Rim/Joist	1000		
Opening Framing		Maximal Length of Split Rim/Joist	6000		
×		Maximal Length of Cover Plate/Joist	6000		
End Connection		Offset Distance of Split	300		
		Special Split Rule			
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Offset Distance of Split – defines splitting distance for selected rim joist from selected joist.

#### Example: Offset Distance of Split = 300mm:

ALIGN/TRIM/EXTEND – Split Elements : AGACAD

	300		
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## Split Rim Joists Automatically for All Frames

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Split Bridging/Nogging	
Delete Splits	
Split Joist	
Delete Joist Split	

**Split Rim Joists Automatically for All Frames** – splits rim joists for all floors in the current project according to predefined settings in **Framing Configuration**.

## **Split Rim Joist Manually**

III Split Elements	×
Split Rim Joists Automatically	
Split Rim Joists Automatically for All Frames	
Split Rim Joist Manually	
Split Bridging/Nogging	
Delete Splits	
Split Joist	
Delete Joist Split	

Split Rim Joist Manually - splits selected rim joist by selected joist.

1. Select a joist which will split top/bottom plate;

2. Select a top or bottom plate which will be split.



#### Result:

# Also, pay attention to Offset Distance of Split parameter in Configs $\rightarrow$ Framing Configuration $\rightarrow$ Common Settings $\rightarrow$ Modify Configuration Settings tab:

	Configuration Settings Modify Configuration Settings Elements Mark De	efinitions Modify Settings
	Minimal Bridging/Stud/Joist Length	25
Floor Framing	Split the Flooring Strip if Width is less than	20
Floor Flaming	Minimal Flooring Support Width for the Last Row	12.7
	Minimal Length of Split Rim/Joist	1000
Opening Framing	Maximal Length of Split Rim/Joist	6000
×	Maximal Length of Cover Plate/Joist	6000
End Connection	Offset Distance of Split	300
	Special Split Rule	

Offset Distance of Split - defines splitting distance for selected rim joist from selected joist.

Example: Offset Distance of Split = 300mm:



## Split Bridging/Nogging

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Split Bridging/Nogging	
Delete Splits	
Split Joist	
Delete Joist Split	

Split Bridging/Nogging – splits selected bridging/nogging by selected joist.



## **Delete Splits**

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Split Rim Joists Automatically	
Split Rim Joists Automatically for All Frames	
Split Rim Joist Manually	
Split Bridging/Nogging	
Delete Splits	
Split Joist	
Delete Joist Split	

Delete Splits - resets selected floor rim joists to original length before splitting.

Example: rim joists were split...



...after using Delete Splits, the rim joists are whole again:



## Split Joist

III Split Elements	×
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Split Rim Joist Manually	
Split Bridging/Nogging	
Delete Splits	
Split Joist	
Delete Joist Split	

Split Joist – splits selected joists by predefined settings.

You can select one joist or multiple.

For joist splitting you will see a dialog with settings where you can predefine the offset, spacing, number of splits, minimal length of last element, etc.

R Flo	or+M. Split Joist			_		$\times$
Split J	oist					
Split.	Joist	From Start				~
Offse	t	600				
Offse	t from Selected Element	0				
Selec	t Line Based Element	Select Line Based Element				
Spac	ing	600				
Num	ber	3			[	<b>\$</b>
Mim	imal Length of Last Element	0				
			01		C	
			OK		Clos	se



## **Delete Joist Split**



Delete Joist Split - resets selected joists to original length before splitting.

Select the joist that was split, after clicking **Delete Joist Split**, the joists are restored to original length:



