#### FRAMING CONFIGURATION - Brace

Modified on: Fri, 8 Jan, 2021 at 7:22 PM

### Brace Type

Brace Corner Brace Brace Group	
Туре	M_WF Plate LMBR 45x120
Width (b)	4.5
Depth (h,d)	12
Define Depth (h,d) by Layer Thickness	
Rotate 90°	
Extend Ends (new Families)	$\checkmark$
Rotate 180°	
Minimum Angle	0
Maximum Angle	90
Cut Studs	Cut Studs v
Cut Bridging/Nogging	Cut Bridging/Nogging v
Brace Connection Offset from Stud	100
Brace Connection Offset from Plate/Bridging/Nogging	100
Frame Side	Center - Centered v
Build in Place	

Use Main Types – brace family and type will be taken from Common Settings tab.

**Type –** select the family and type that will be used for the brace. Default families are predefined.

Width (b) - shows b size of selected type.

Depth (h,d) - shows h or d size of selected type.

**Define Depth (h,d) by Layer Thickness** – Wall+/Floor+/Roof+ will automatically create new type for selected family with new depth equal to selected wall/floor layer thickness.

#### Rotate 90° and 180°

Brace Corner Brace Brace Group	
Туре	M_WF Plate v LMBR 45x120
Width (b)	4.5
Depth (h,d)	12
Define Depth (h,d) by Layer Thickness	
Rotate 90°	
Extend Ends (new Families)	
Rotate 180°	
Minimum Angle	0
Maximum Angle	90
Cut Studs	Cut Studs v
Cut Bridging/Nogging	Cut Bridging/Nogging v
Brace Connection Offset from Stud	100
Brace Connection Offset from Plate/Bridging/Nogging	100
Frame Side	Center - Centered v
Build in Place	

Rotate 90° - if ticked, then bracing rotates by 90 degrees.

Rotate 180° – if ticked, then bracing rotates by 180 degrees. Rotation depends on how the profile in the family is created.

Example with wood wall frame:



Example with metal wall frame:



### Extend Ends

brace Corner Brace Brace Group	
Туре	M_WF Plate LMBR 45x120
Width (b)	4.5
Depth (h,d)	12
Define Depth (h,d) by Layer Thickness	
Rotate 90°	
Extend Ends (new Families)	
Rotate 180°	
Minimum Angle	0
Maximum Angle	90
Cut Studs	Cut Studs v
Cut Bridging/Nogging	Cut Bridging/Nogging v
Brace Connection Offset from Stud	100
Brace Connection Offset from Plate/Bridging/Nogging	100
Frame Side	Center - Centered v
Build in Place	

Extend Ends - extends brace ends if it connects other plates/rim joists or studs/joists.

Example: **Extend Ends** is switched ON for the left brace and switched OFF for the right brace:



Example: when **Extend Ends** is switched ON:



Example: when **Extend Ends** is switched OFF:



## Minimum/Maximum Angle

Brace Corner Brace Brace Group	
Туре	M_WF Plate LMBR 45x120
Width (b)	4.5
Depth (h,d)	12
Define Depth (h,d) by Layer Thickness	
Rotate 90°	
Extend Ends (new Families)	$\checkmark$
Rotate 180°	
Minimum Angle	0
Maximum Angle	90
Cut Studs	Cut Studs Y
Cut Bridging/Nogging	Cut Bridging/Nogging Y
Brace Connection Offset from Stud	100
Brace Connection Offset from Plate/Bridging/Nogging	100
Frame Side	Center - Centered Y
Build in Place	

Minimum Angle and Maximum Angle – define angle limits for adding bracing.

# Cut Studs/Joists and Cut Bridging/Nogging

Brace Corner Brace Brace Group	
Туре	M_WF Plate LMBR 45x120
Width (b)	4.5
Depth (h,d)	12
Define Depth (h,d) by Layer Thickness	
Rotate 90°	
Extend Ends (new Families)	$\checkmark$
Rotate 180°	
Minimum Angle	0
Maximum Angle	90
Cut Studs	Cut Studs v
Cut Bridging/Nogging	Cut Bridging/Nogging v
Brace Connection Offset from Stud	100
Brace Connection Offset from Plate/Bridging/Nogging	100
Frame Side	Center - Centered ×
Build in Place	

Cut Studs/Joists - select bracing and stud/joist connection cutting type.

**Cut Bridging/Nogging** – select bracing and bridging or nogging connection cutting type.

#### Example with wood wall frame:

#### Example with metal wall frame:



Example with wood floor: when Cut Joists is selected:



Example with wood floor: when Cut Bridging/Nogging/Blocking is selected:



### Brace Connection Offset from Stud/Joist or

### Plate/Bridging/Nogging

Brace Corner Brace Brace Group

Туре	M_WF Plate LMBR 45x120
Width (b)	4.5
Depth (h,d)	12
Define Depth (h,d) by Layer Thickness	
Rotate 90°	
Extend Ends (new Families)	$\checkmark$
Rotate 180°	
Minimum Angle	0
Maximum Angle	90
Cut Studs	Cut Studs Y
Cut Bridging/Nogging	Cut Bridging/Nogging v
Brace Connection Offset from Stud	100
Brace Connection Offset from Plate/Bridging/Nogging	100
Frame Side	Center - Centered ×
Build in Place	

Brace Connection Offset from Stud/Joist – enter a distance between bracing and stud/joist.

**Brace Connection Offset from Plate/Bridging/Nogging** – enter a distance between bracing and plate, bridging, or nogging.



Example, Brace Connection Offset from Stud/Joist = 3":



### Frame Side

Brace Corner Brace Brace Group	
Туре	M_WF Plate LMBR 45x120
Width (b)	4.5
Depth (h,d)	12
Define Depth (h,d) by Layer Thickness	
Rotate 90°	
Extend Ends (new Families)	$\checkmark$
Rotate 180°	
Minimum Angle	0
Maximum Angle	90
Cut Studs	Cut Studs v
Cut Bridging/Nogging	Cut Bridging/Nogging v
Brace Connection Offset from Stud	100
Brace Connection Offset from Plate/Bridging/Nogging	100
Frame Side	Center - Centered v
Build in Place	

Frame Side – select whether a brace should be applied in the center, external or internal side of the frame.

#### Example: when Frame Side = Center:



Example: when Frame Side = External:



### Build in Place

Brace Corner Brace Brace Group	
Туре	M_WF Plate v LMBR 45x120
Width (b)	4.5
Depth (h,d)	12
Define Depth (h,d) by Layer Thickness	
Rotate 90°	
Extend Ends (new Families)	$\checkmark$
Rotate 180°	
Minimum Angle	0
Maximum Angle	90
Cut Studs	Cut Studs v
Cut Bridging/Nogging	Cut Bridging/Nogging v
Brace Connection Offset from Stud	100
Brace Connection Offset from Plate/Bridging/Nogging	100
Frame Side	Center - Centered v
Build in Place	

**Build in Place** – writes Yes/No information into the brace instance parameter if it is build-in-place or is prefabricated with the whole wall frame. Later this parameter can be used in schedules or view filters.

#### Example with wood wall:

Properties			×
M_WF Plate LMBR 45x120	D		•
Structural Framing (Other)	(2) 🗸	🔒 Edit Typ	e
z Offset Value	0.0		~
Construction		\$	
#d	200.0		
Build in Place	~		
Insert_Left			
Insert_Right	✓		
Row	0		
Link to Connected Wall			
Assembly Mass			
Element Mass			
Assembly Created-Upd			
Details Created-Updated			
DC			
Graphics	1	*	
Axis Visible_T			×
Properties help		Apply	

#### Example with wood floor:

#### 08/09/21, 09:26

FRAMING CONFIGURATION – Brace : AGACAD

