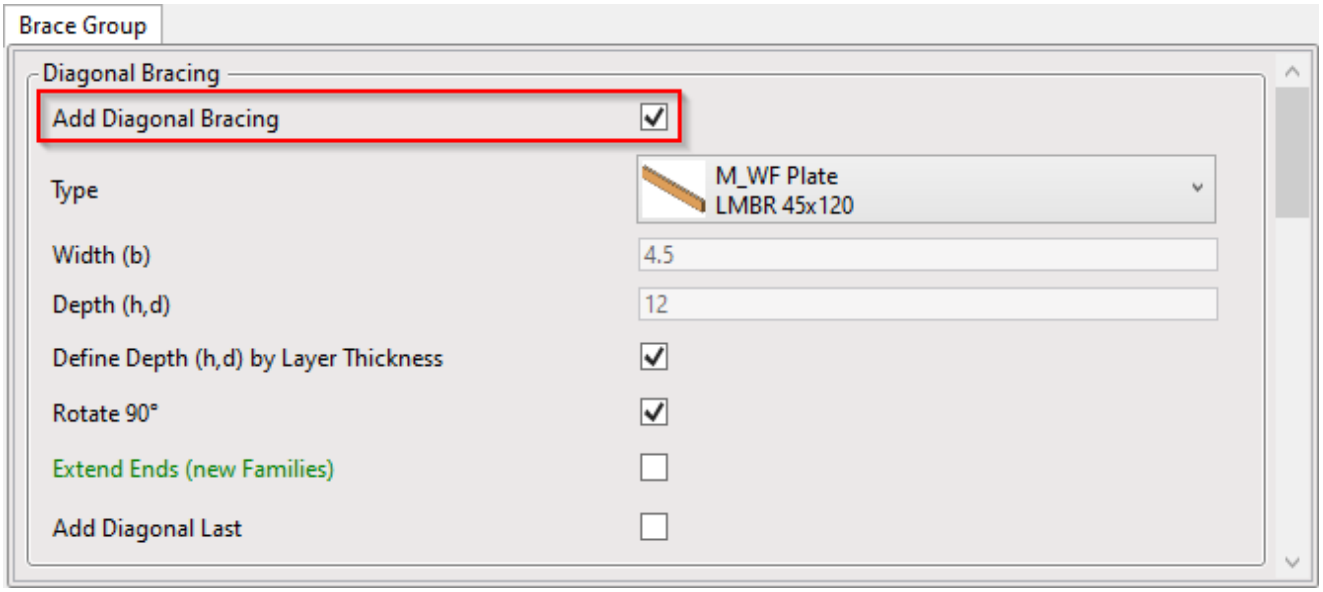
ADD/MODIFY BRACING – Modify Brace Group

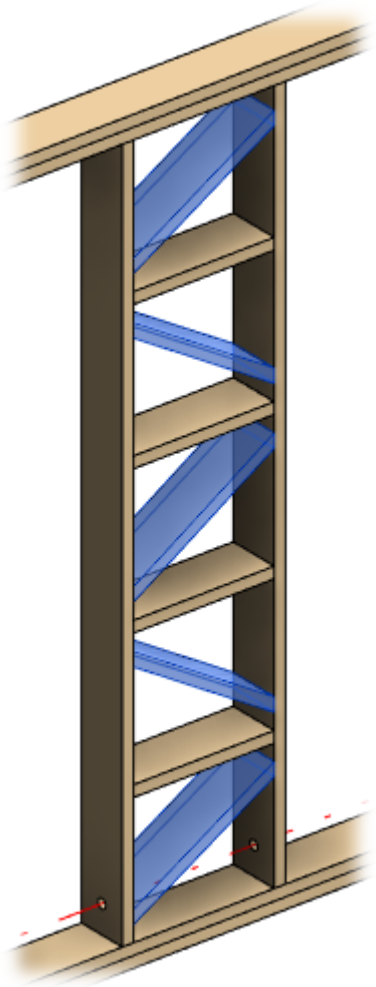
Modified on: Sat, 9 Jan, 2021 at 12:13 PM

Add Diagonal Bracing

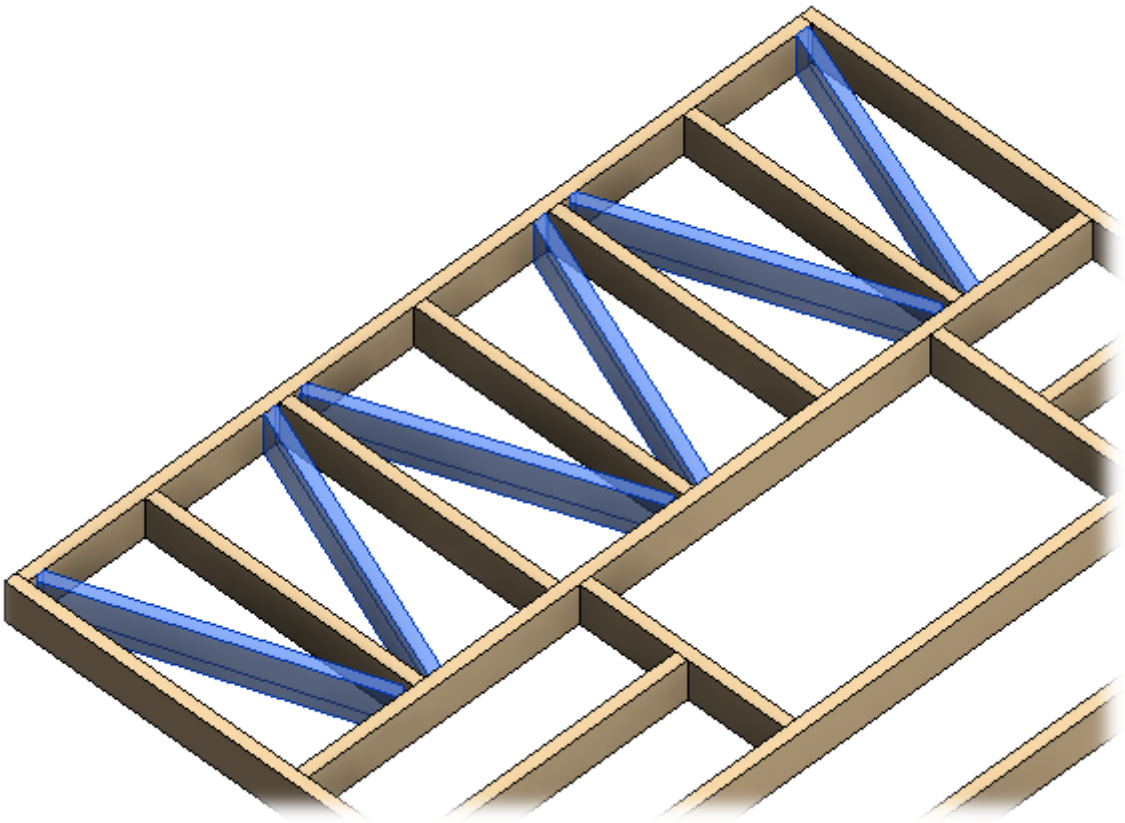


Add Diagonal Bracing – enables options for adding diagonal braces in the brace group.

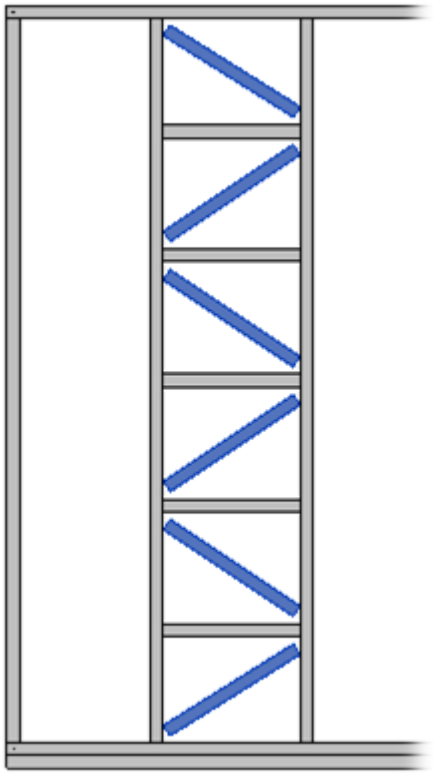
Diagonal braces can be disabled:



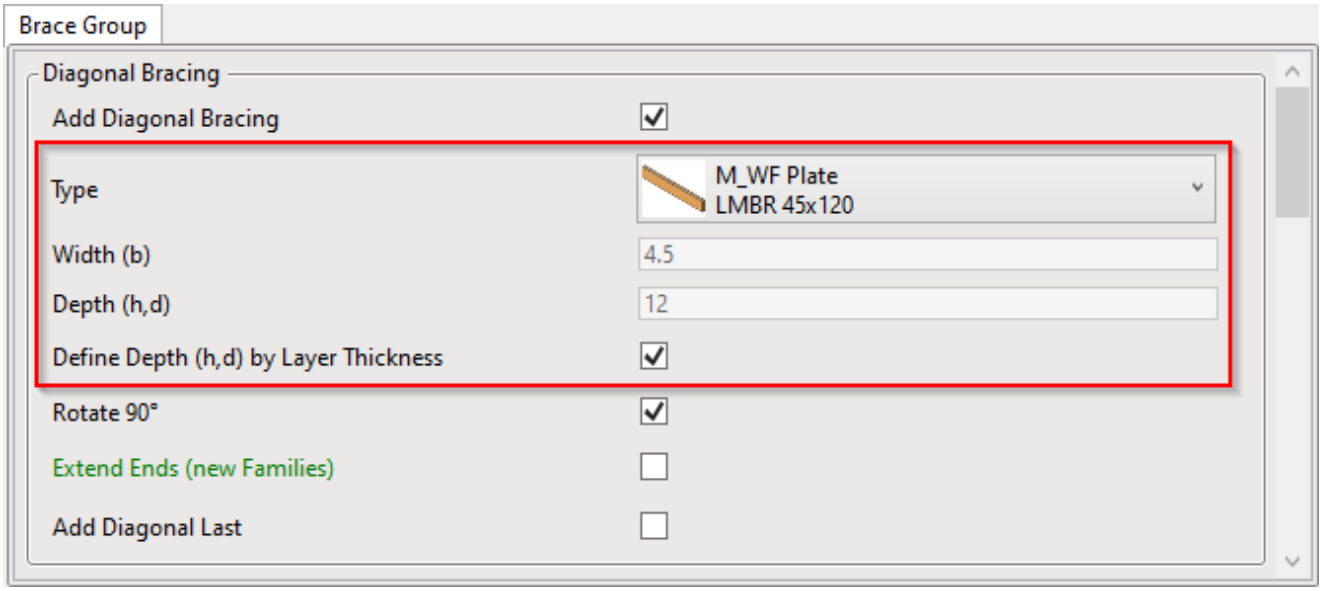
Example with wood floor:



Example with metal frame - diagonal braces can be disabled:



Diagonal Brace sizes



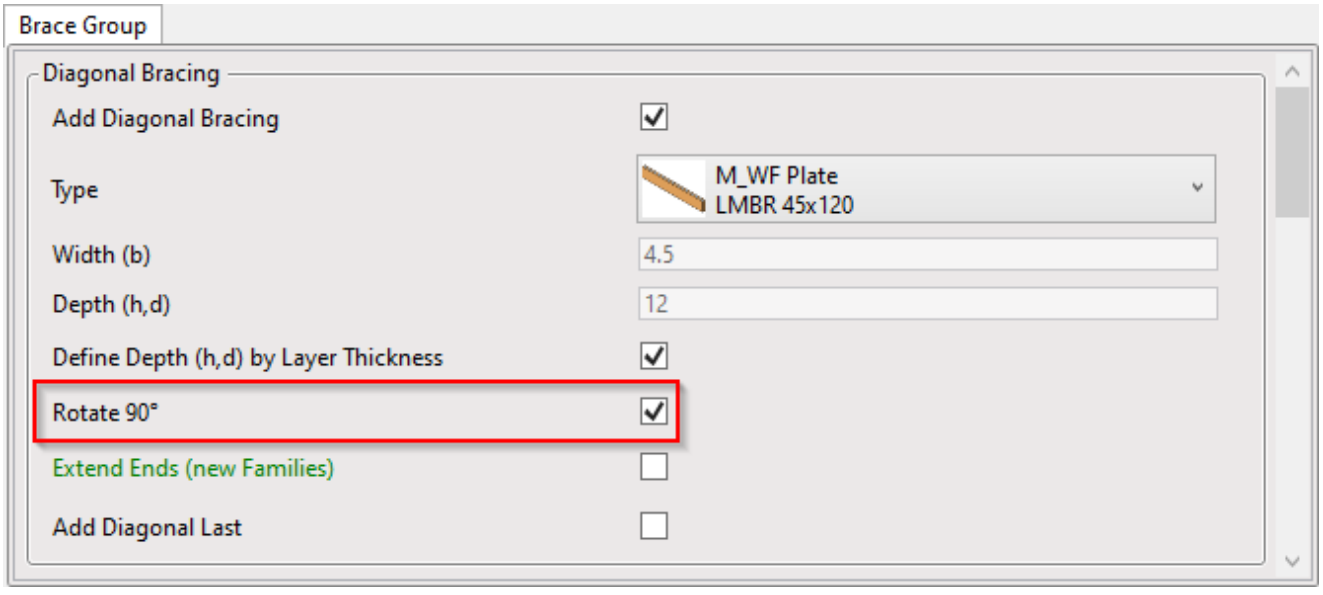
Type – select the family and type which will be used for diagonal brace. Default family is **M_WF Plate.rvt** (for Metric projects) and **I_WF Plate.rvt** (for Imperial projects).

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

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

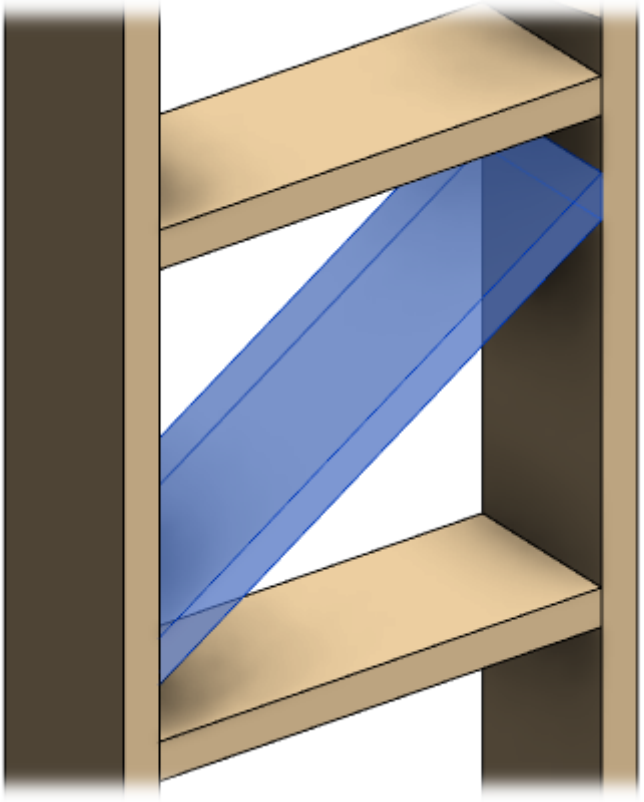
Define Depth (h,d) by Layer Thickness – **Wall+** will automatically create new type for selected family with new depth equal to selected wall layer thickness.

Rotate 90°

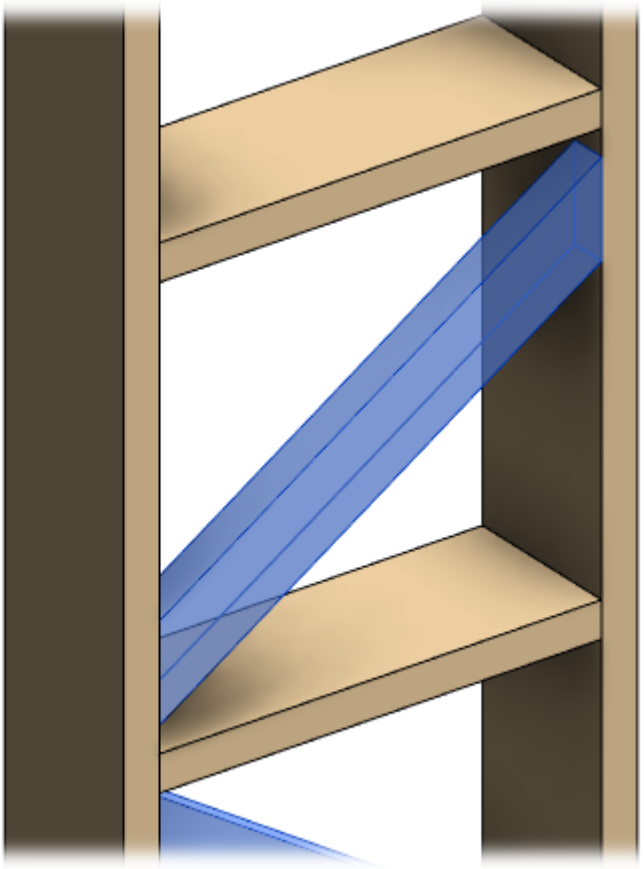


Rotate 90° – diagonal brace can be rotated 90 degrees to its initial position.

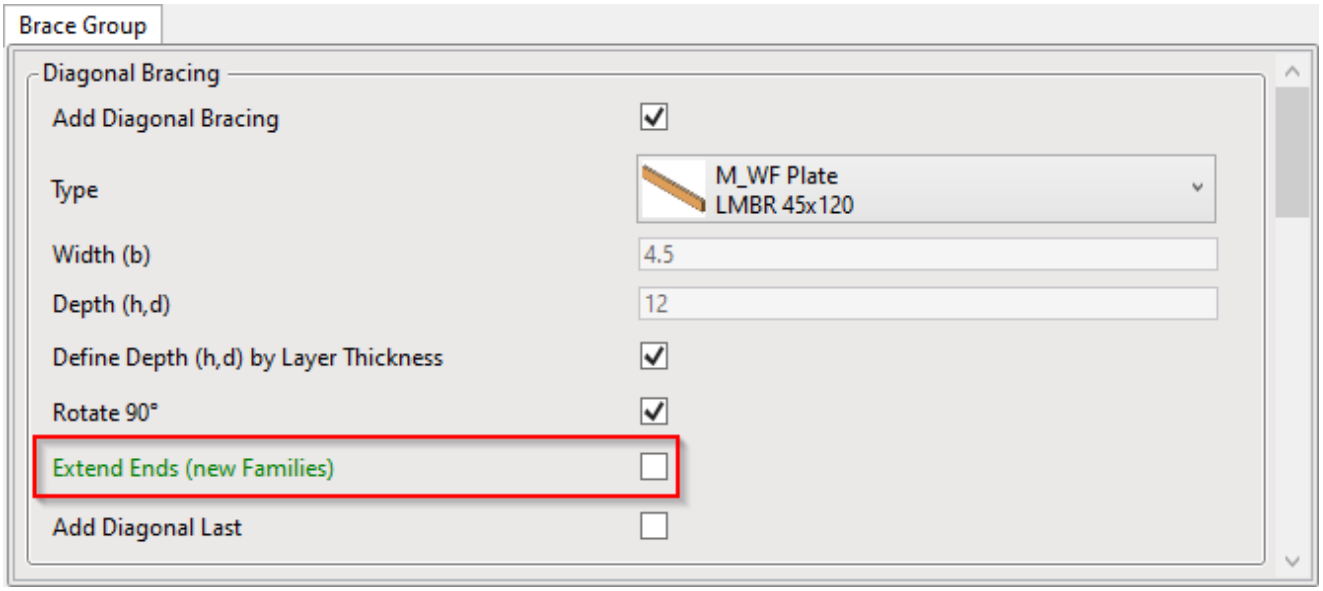
*Example: when **Rotate 90°** is switched ON:*



*Example: when **Rotate 90°** is switched OFF:*

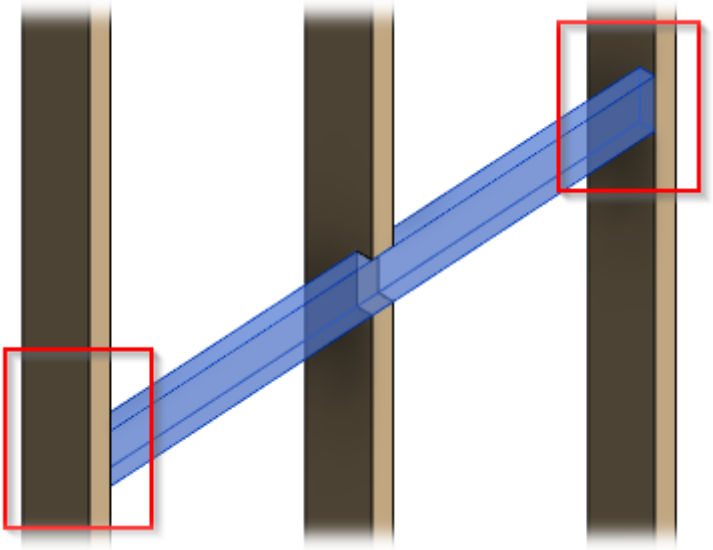


Extend Ends

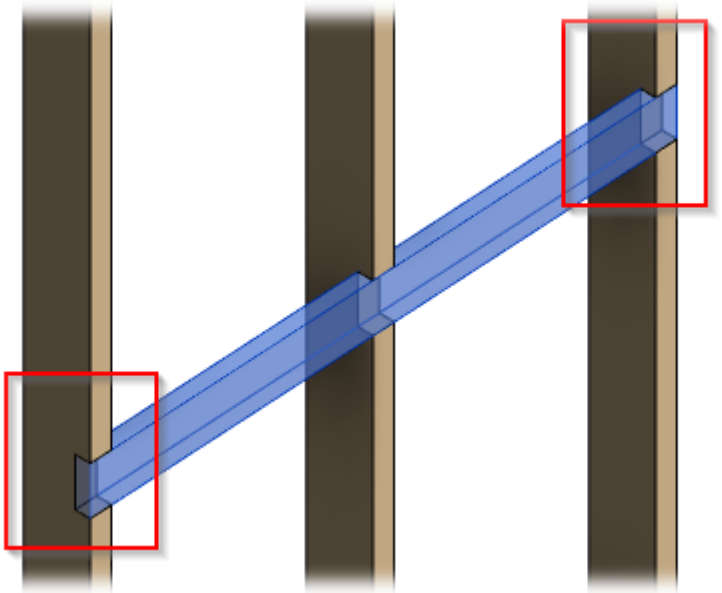


Extend Ends - extends diagonal brace ends when it connects to other elements.

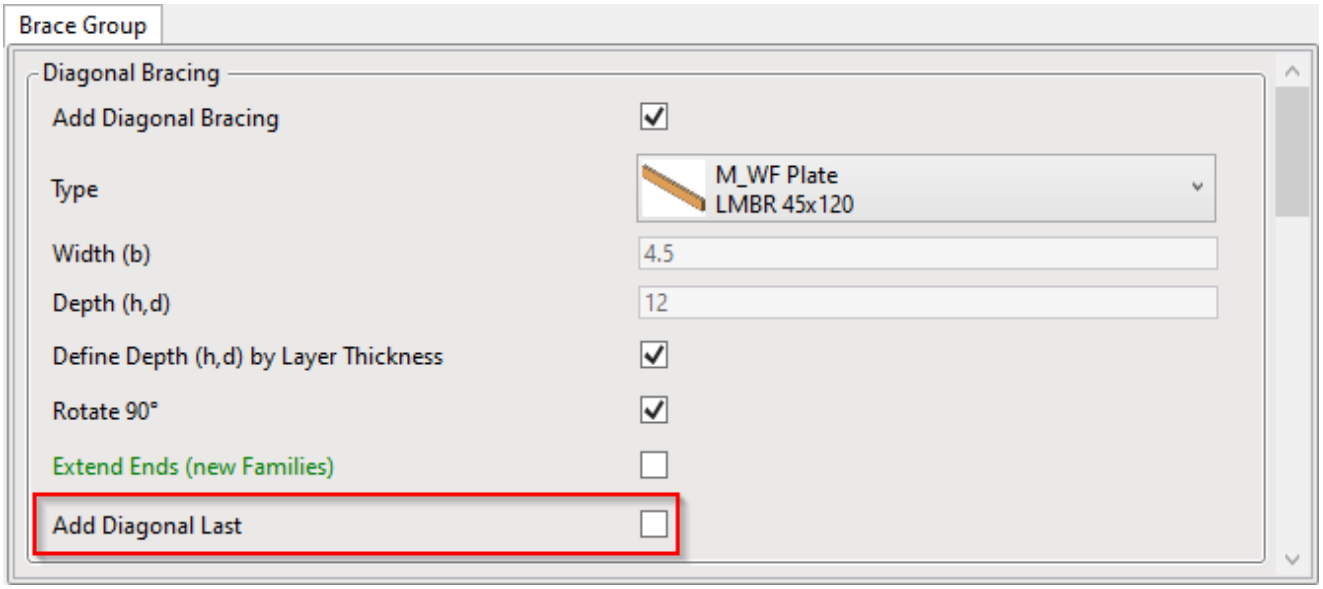
*Example: when **Extend Ends** is switched OFF:*



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

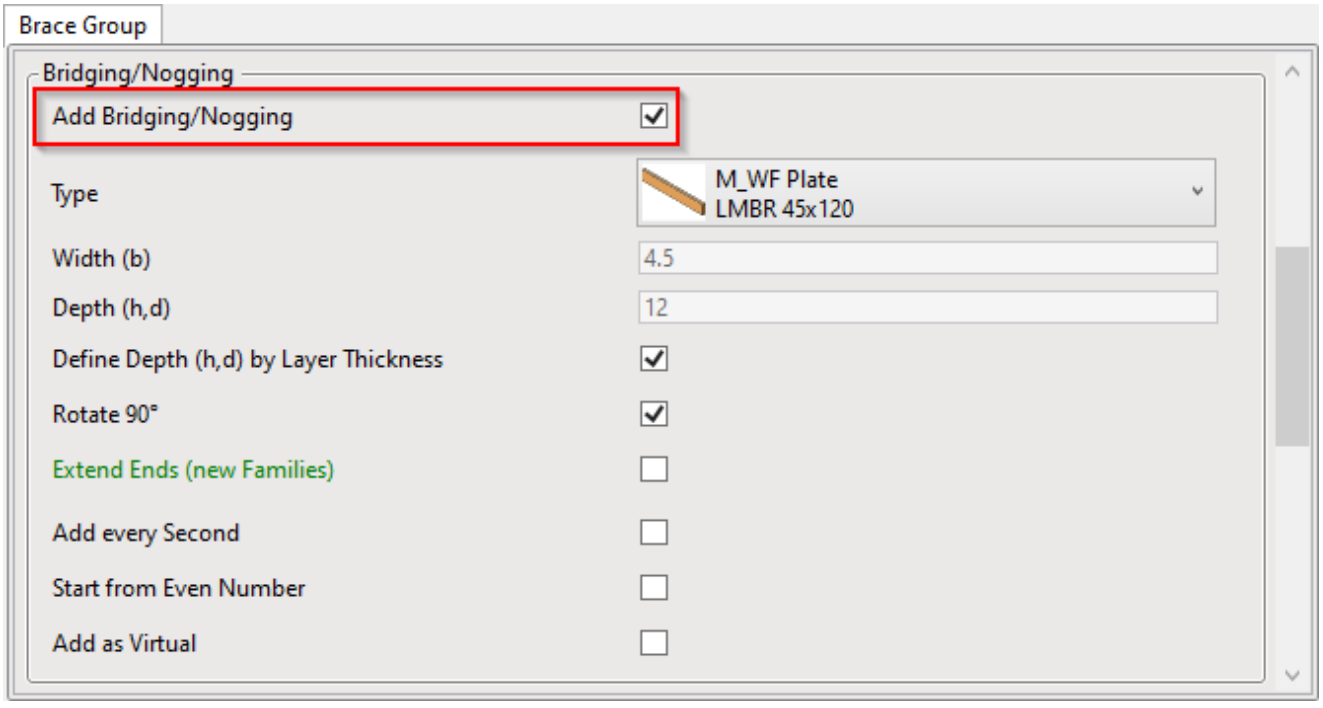


Add Diagonal Last



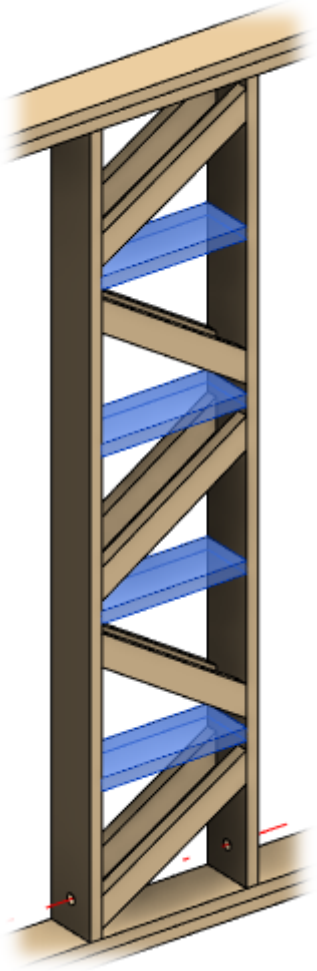
Add Diagonal Last – tries to finish a group with diagonal braces.

Add Bridging/Nogging

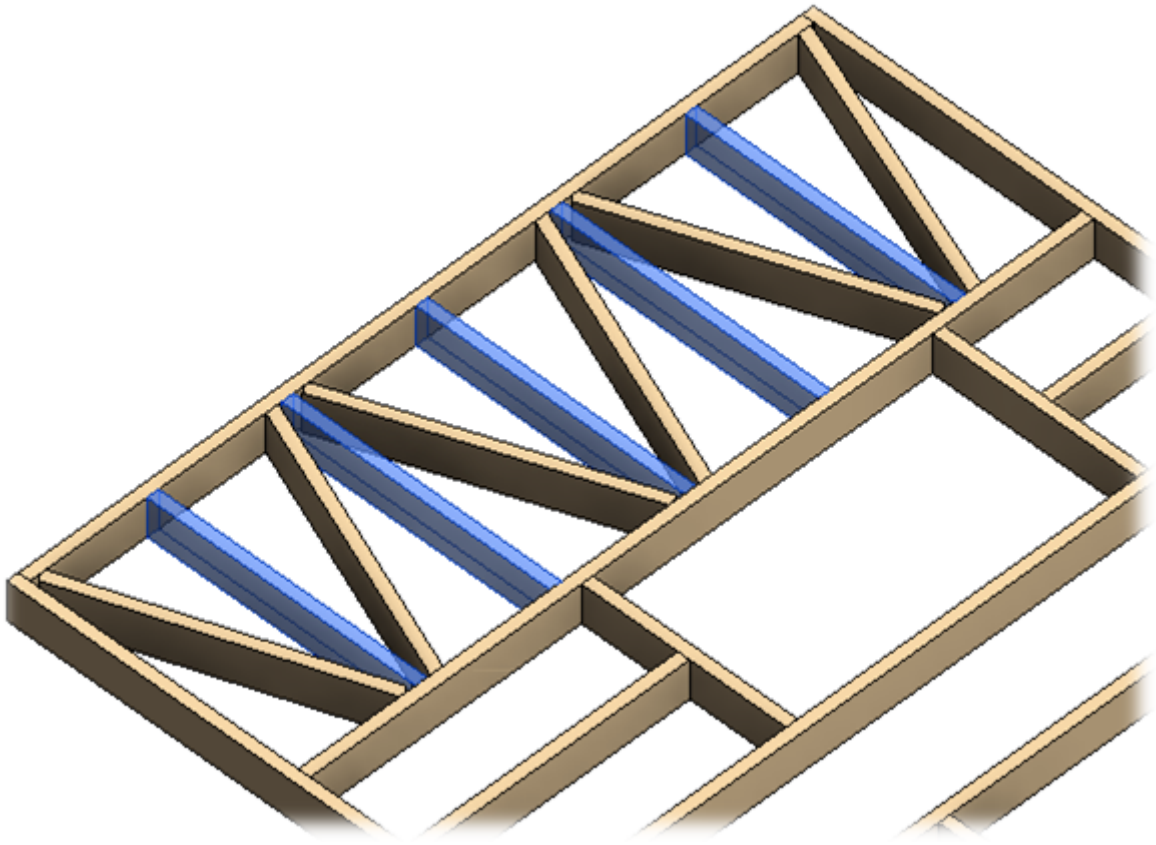


Add Bridging/Nogging – enables options for adding horizontal bridging/nogging in the brace group.

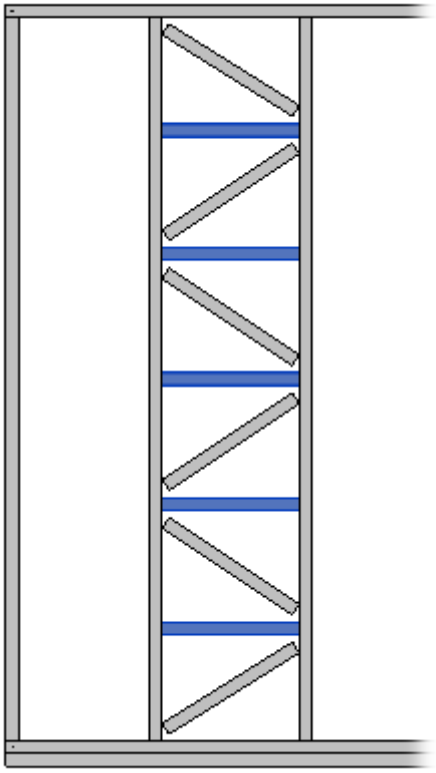
Horizontal braces can be disabled:



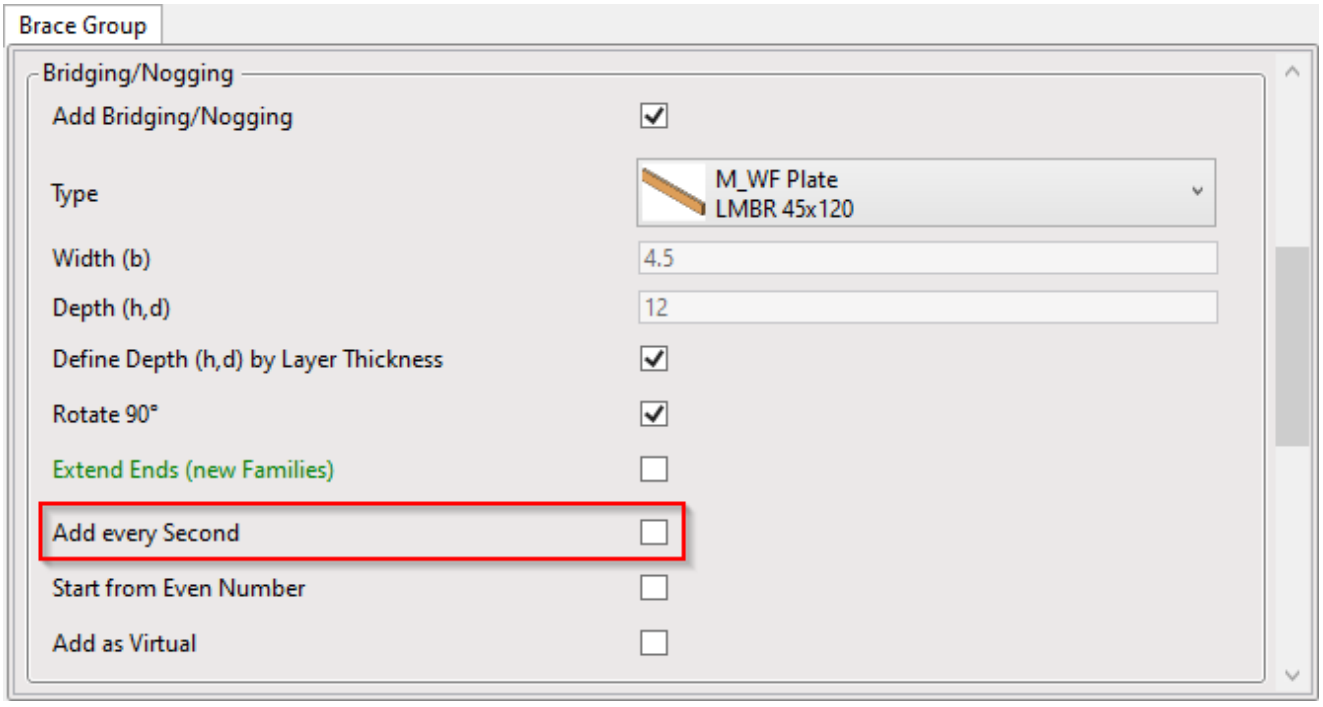
Example with wood floor:



Example with metal frame - horizontal braces can be disabled:

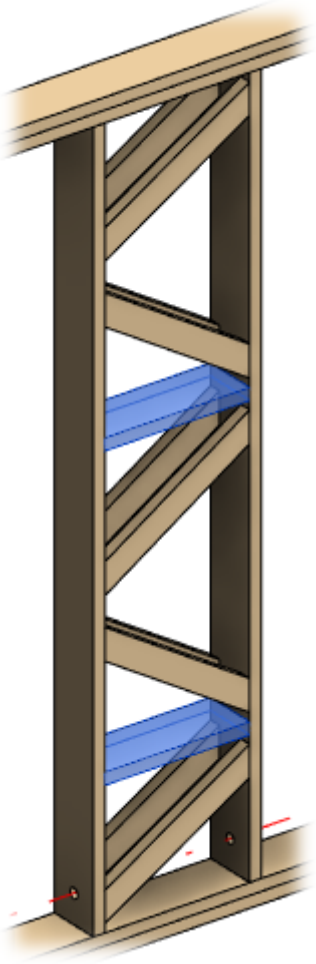


Add every Second

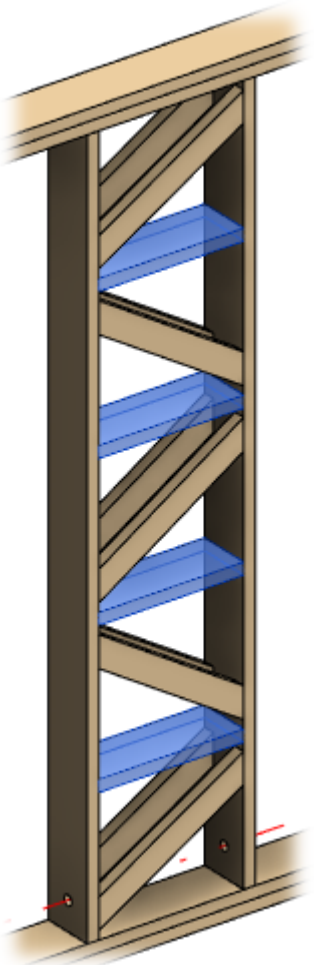


Add every Second – adds every second horizontal brace in the brace group.

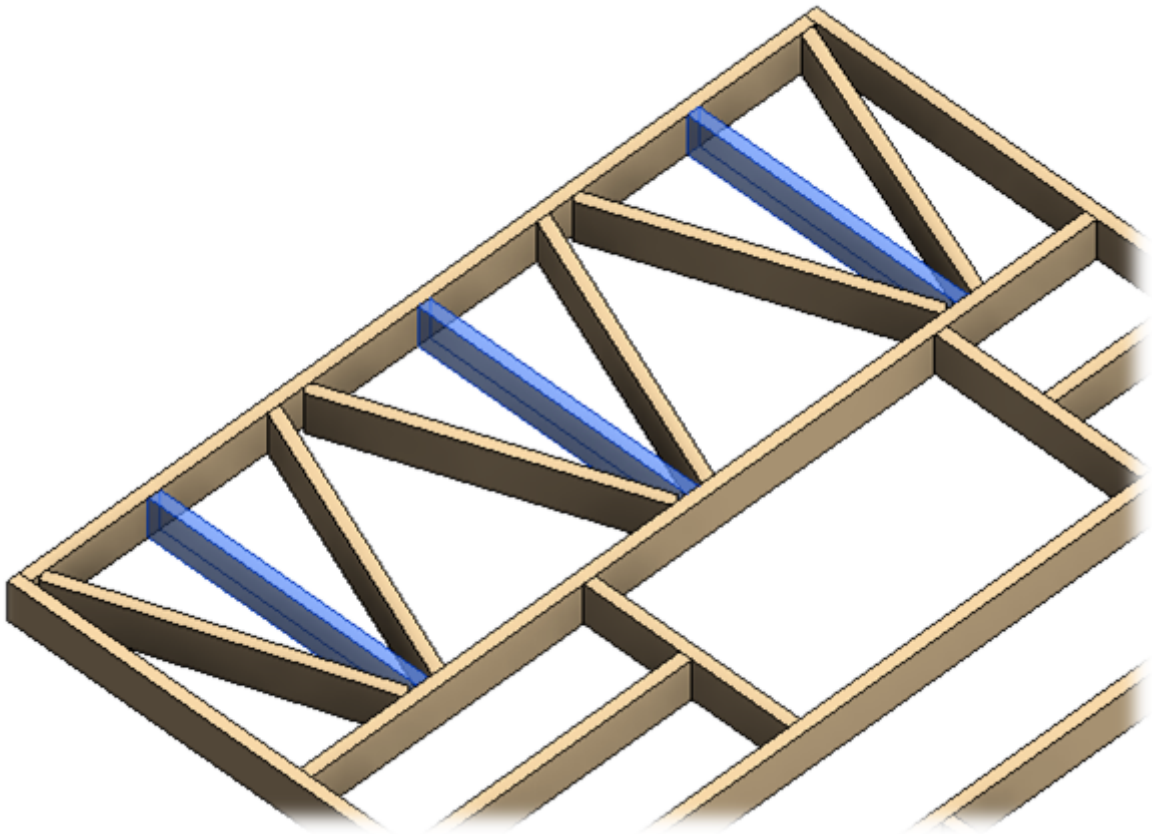
*Example: when **Add every Second** is switched ON:*



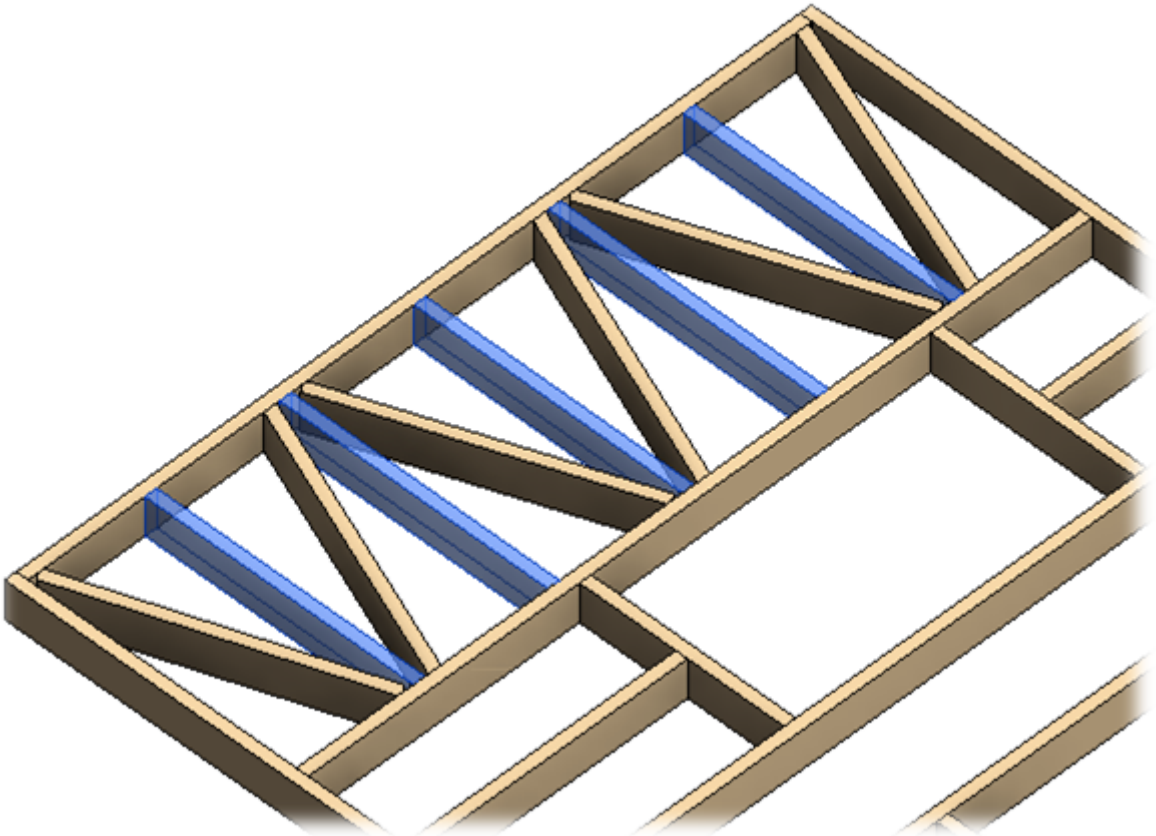
*Example: when **Add every Second** is switched OFF:*



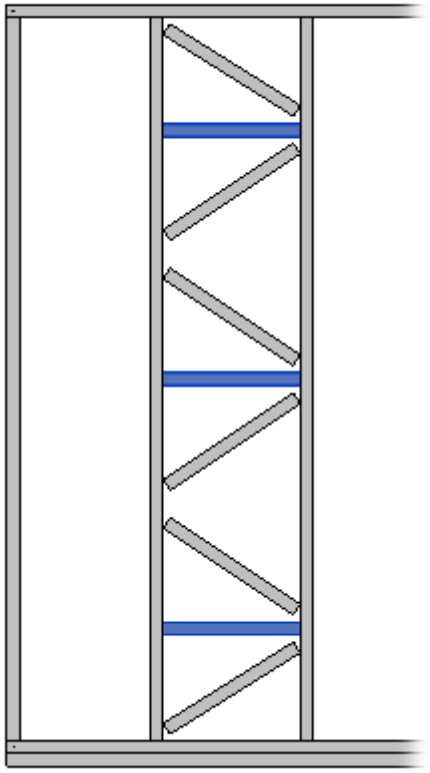
*Example with wood floor - when **Add every Second** is switched ON:*



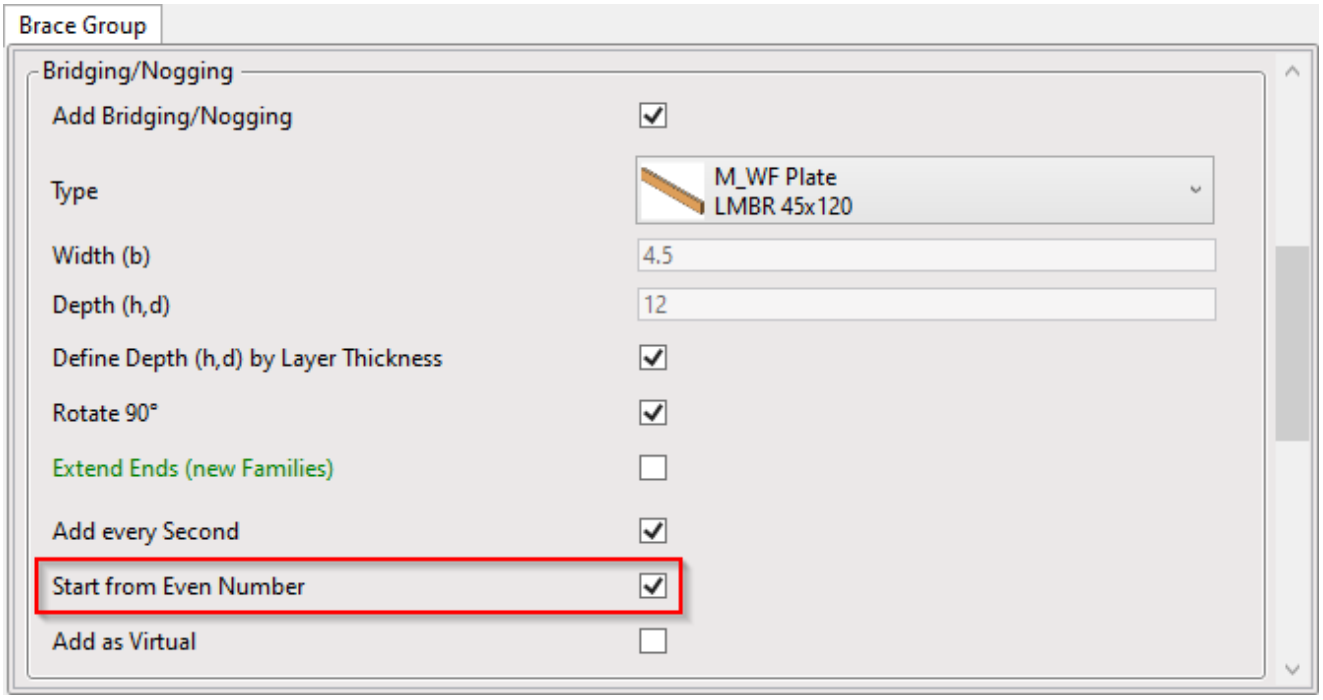
*Example with wood floor - when **Add every Second** is switched OFF:*



*Example with metal frame - when **Add every Second** is switched ON:*

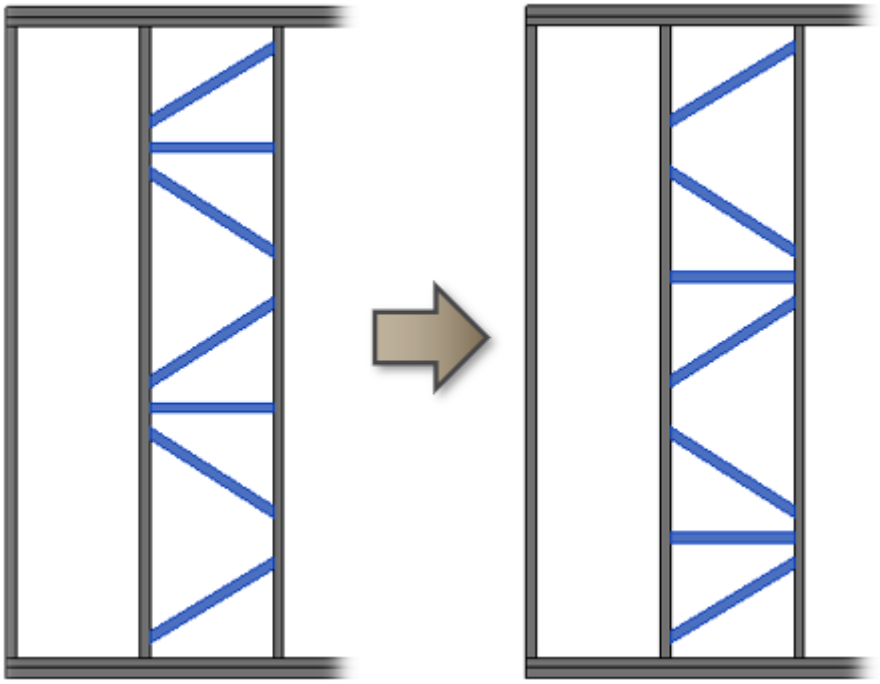


Start from Even Number

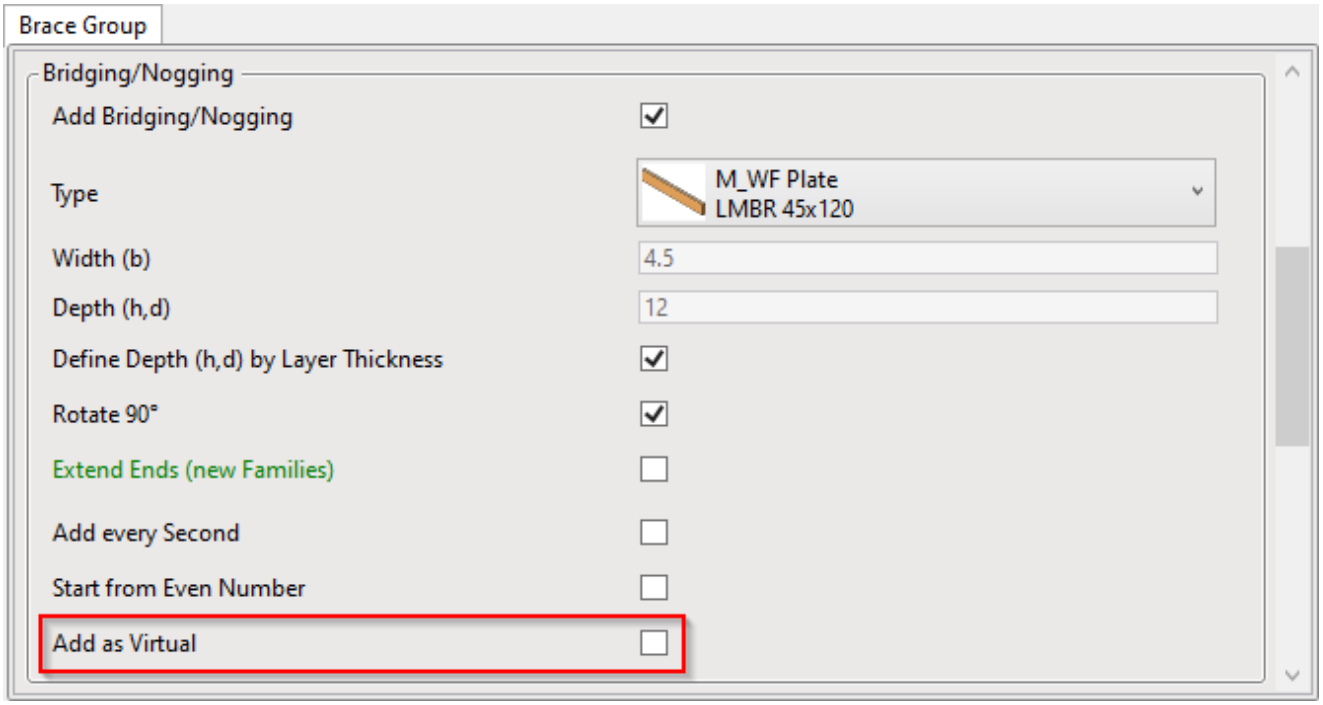


Start from Even Number – possible option when **Add every Second** option is enabled. It starts every second horizontal element from even number.

*Example, in the left side **Start from Even Number** is switched OFF, in the right - switched ON:*

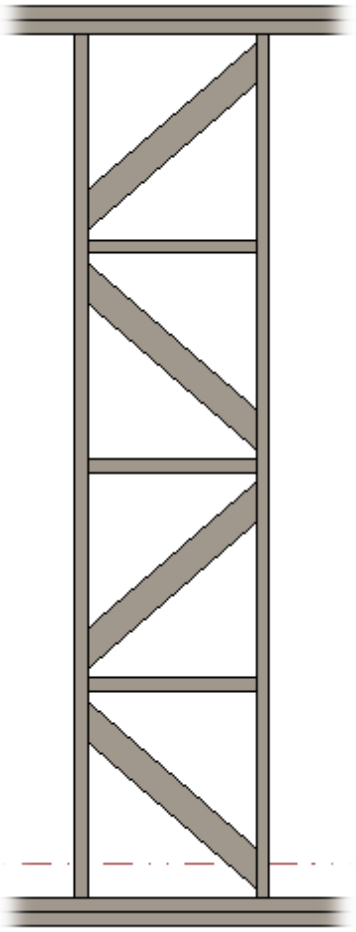


Add as Virtual

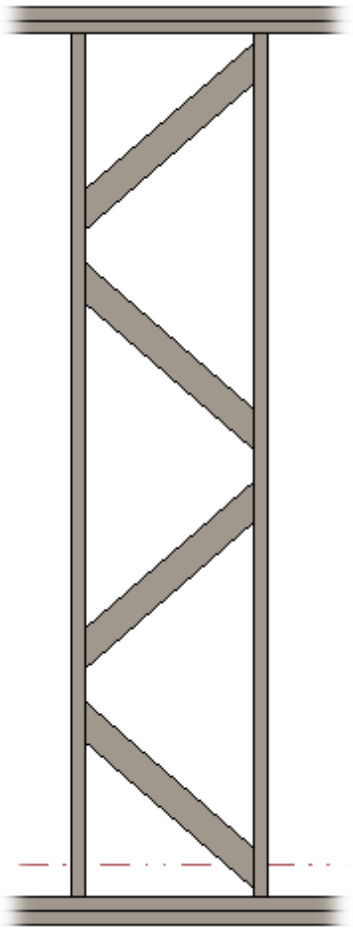


Add as Virtual – deletes horizontal bridging/nogging in the brace group but keeps the distances between diagonal braces the same as if there were horizontal braces.

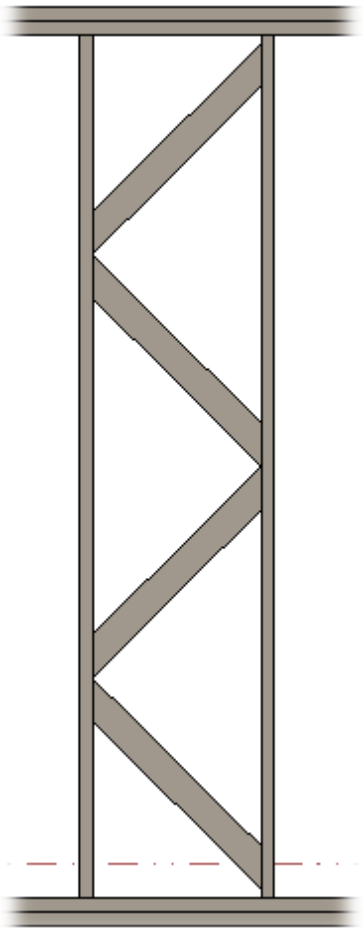
*Example: when **Add as Virtual** is switched OFF:*



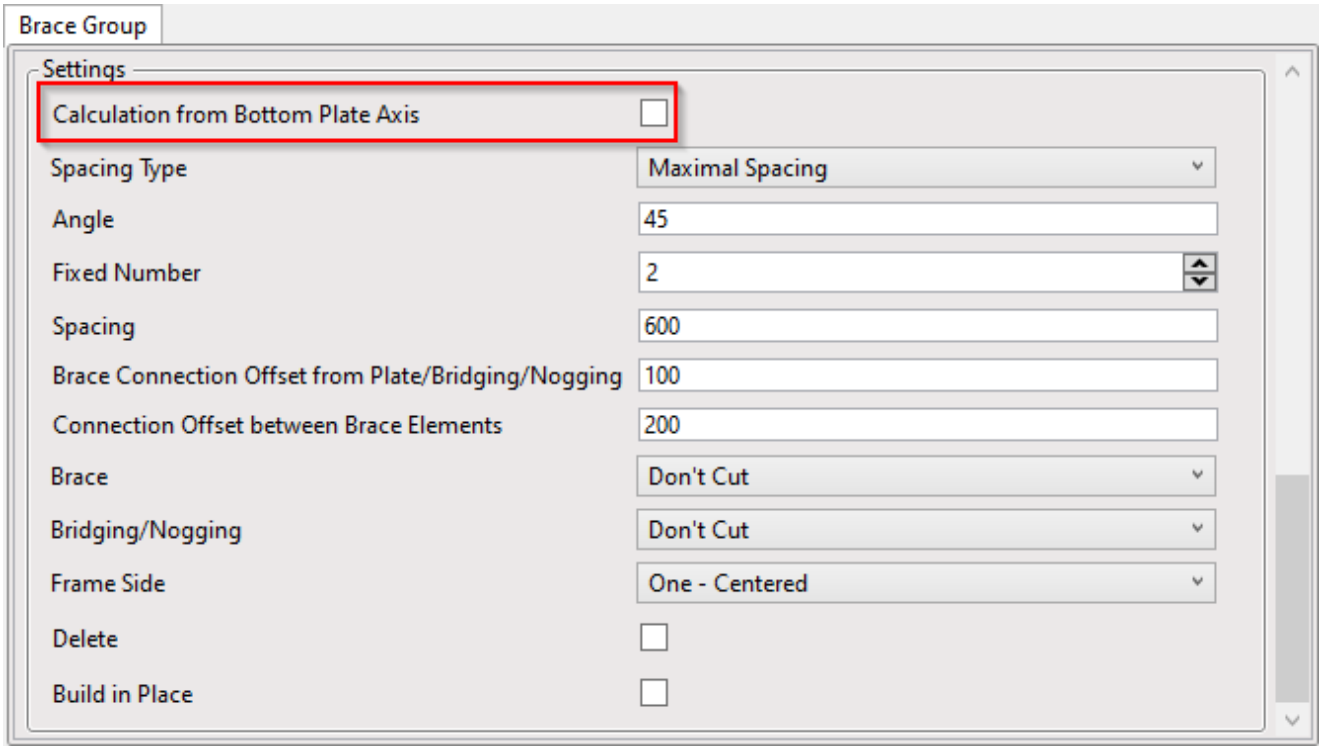
*Example: when **Add as Virtual** is switched ON. The distances between diagonal braces are the same as if there were horizontal braces:*



*Example: when **Add Bridging/Nogging** is switched OFF. The distances between diagonal braces are recalculated:*

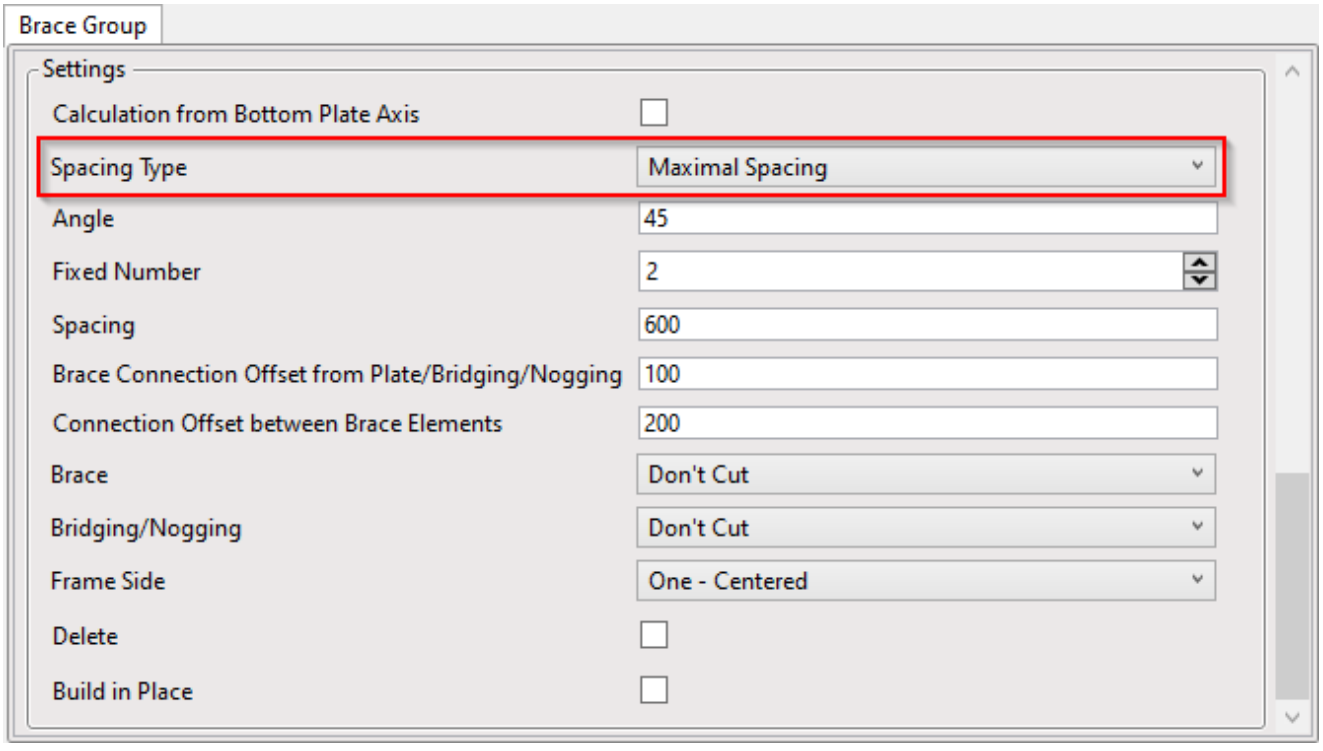


Calculation from Bottom Plate Axis



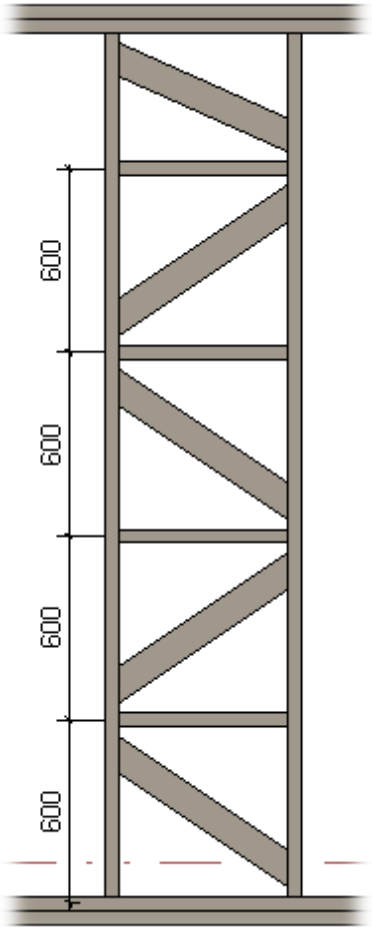
Calculation from Bottom Plate Axis – starts calculation from bottom plate axis.

Spacing Type

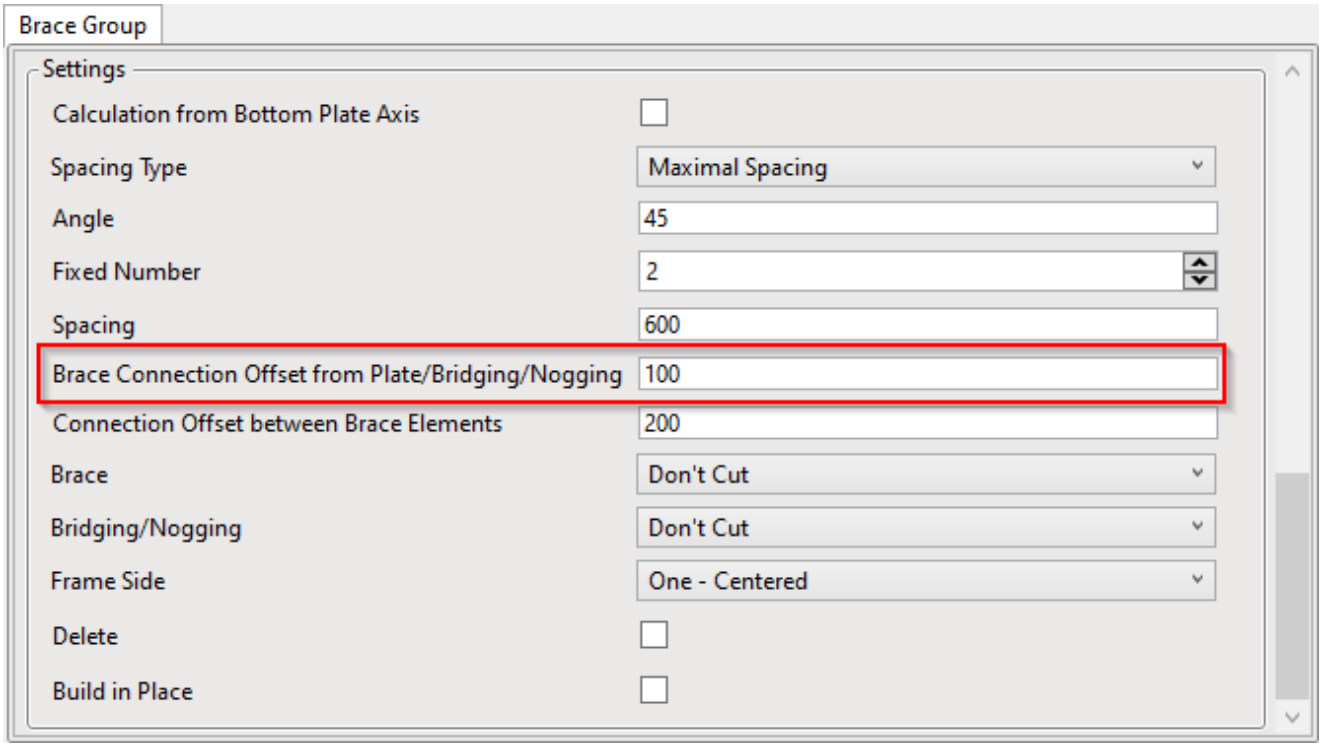


Spacing Type – define spacing calculation rule: **Fixed Spacing**, **Maximal Spacing**, **Fixed Angle**, **Fixed Number and Fixed Spacing**, or **Fixed Number**.
The options below will change regarding this setting.

*Example: when **Spacing Type** = **Fixed Spacing** and **Spacing = 600**:*

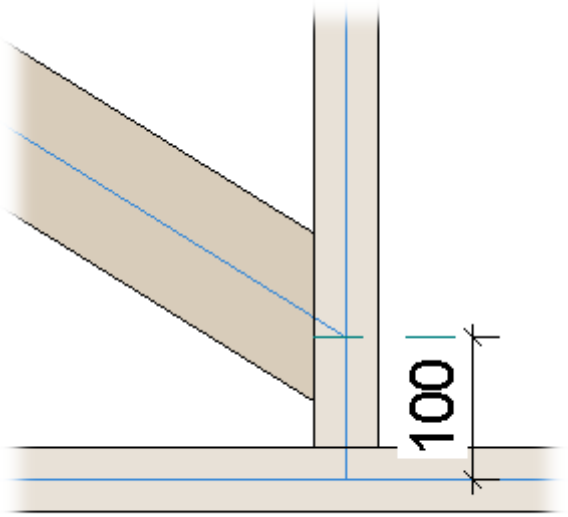


Brace Connection Offset from Plate/Bridging/Nogging

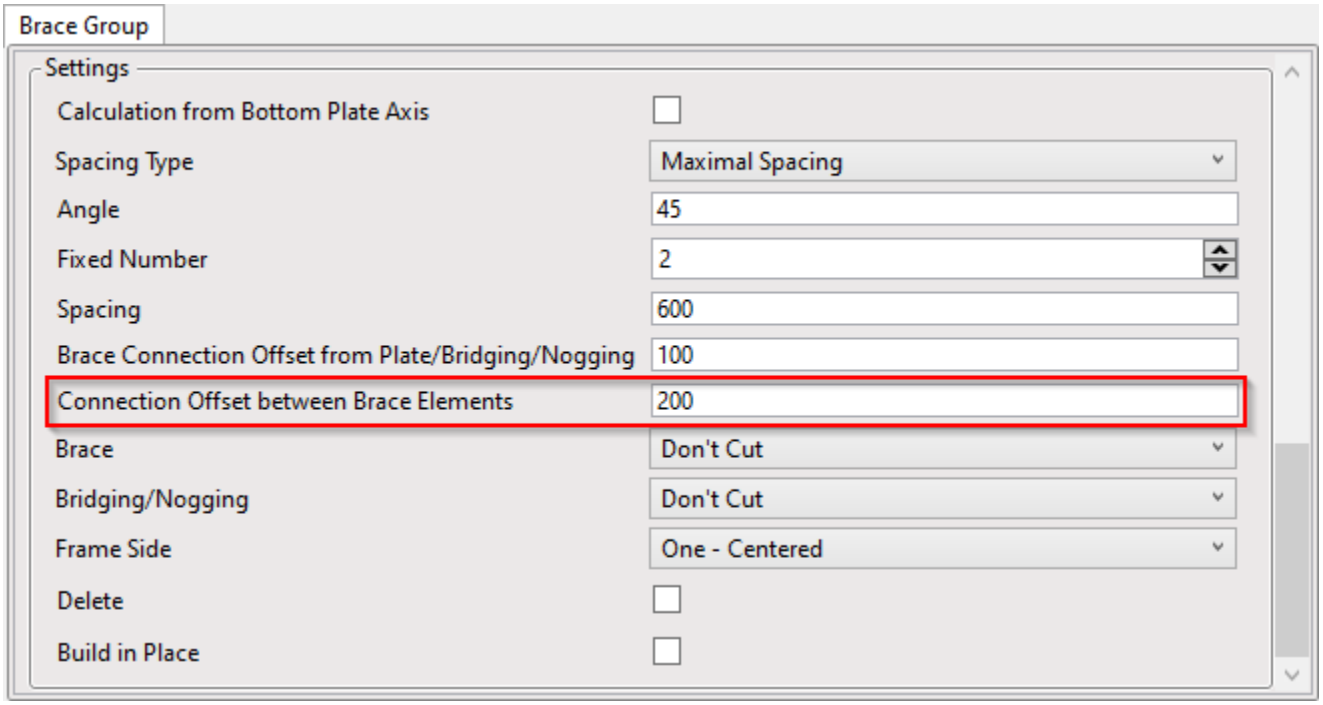


Brace Connection Offset from Plate/Bridging/Nogging – brace offset from connection point with a plate, bridging, or nogging.

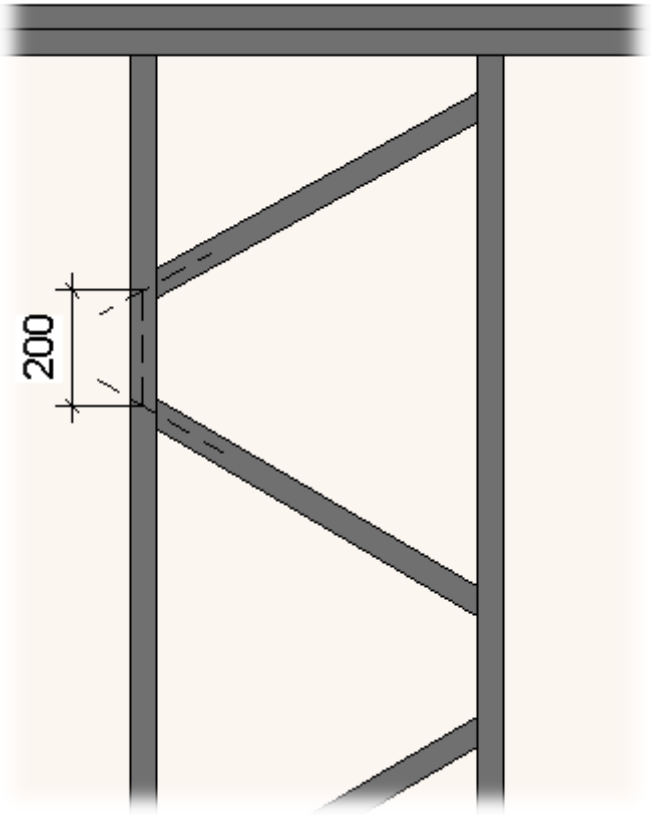
*Example: when **Brace Connection Offset from Plate/Bridging/Nogging** = 100:*



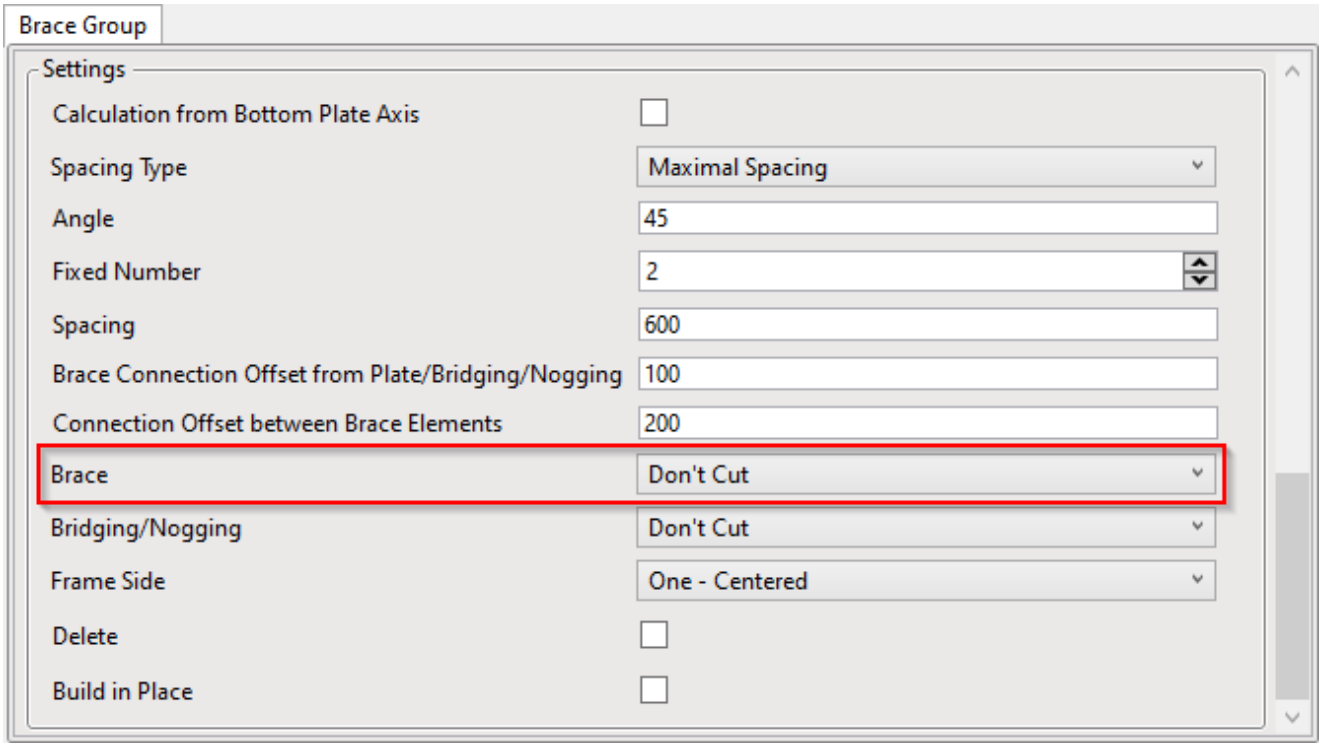
Connection Offset between Brace Elements



Connection Offset between Brace Elements – defines the offset between brace elements.



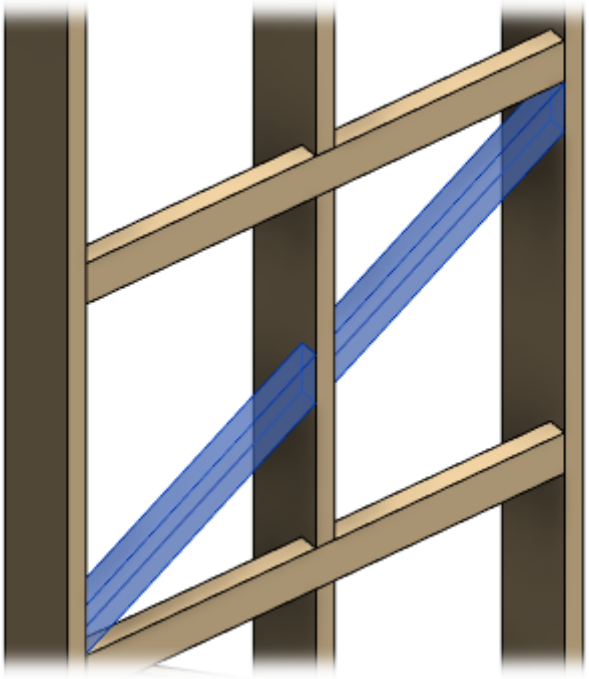
Brace



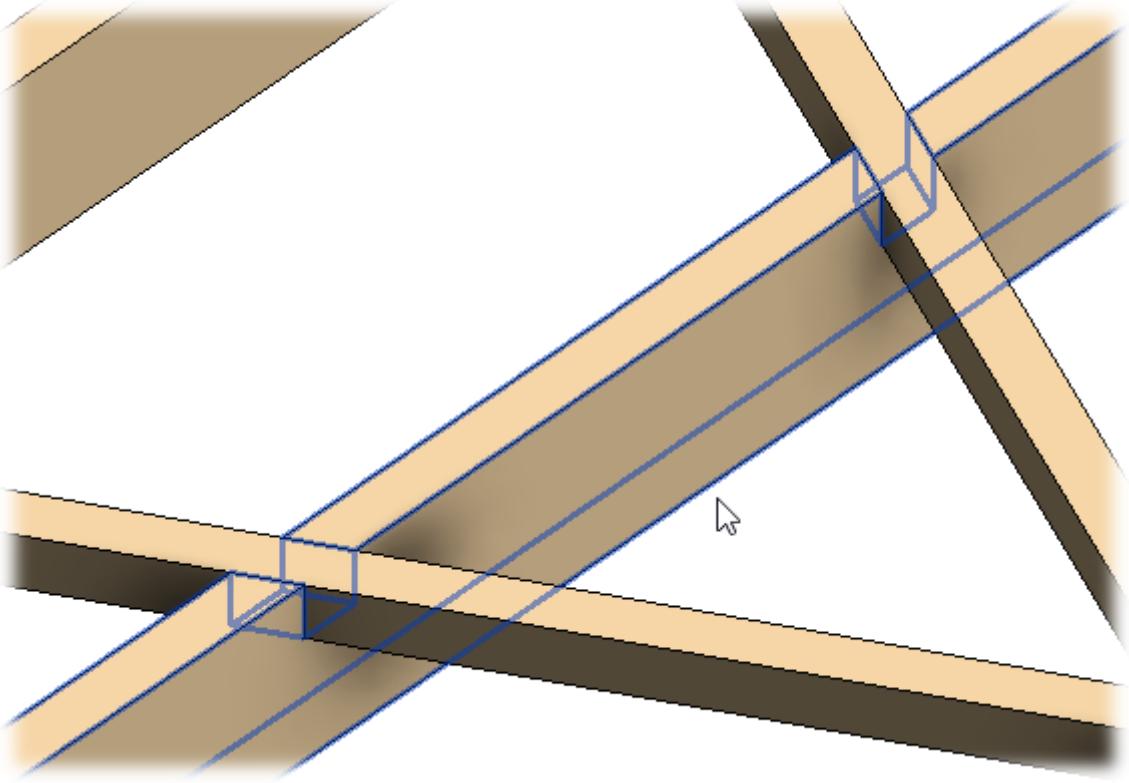
Brace – select brace and stud connection cutting type.

Possible options: **Don't Cut**, **Cut Studs** and **Cut Bracing**.

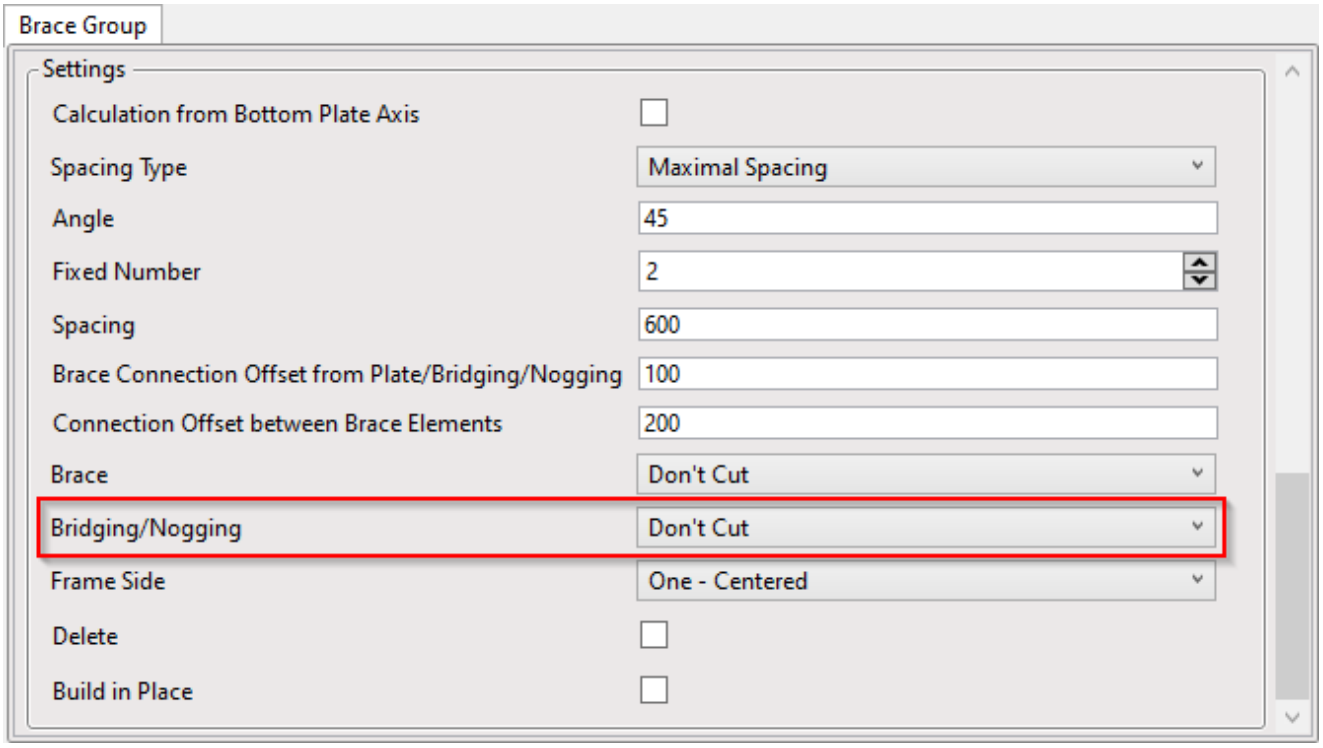
*Example with wood wall - when **Cut Bracing** is selected:*



*Example with wood floor - when **Cut Joists** is selected:*



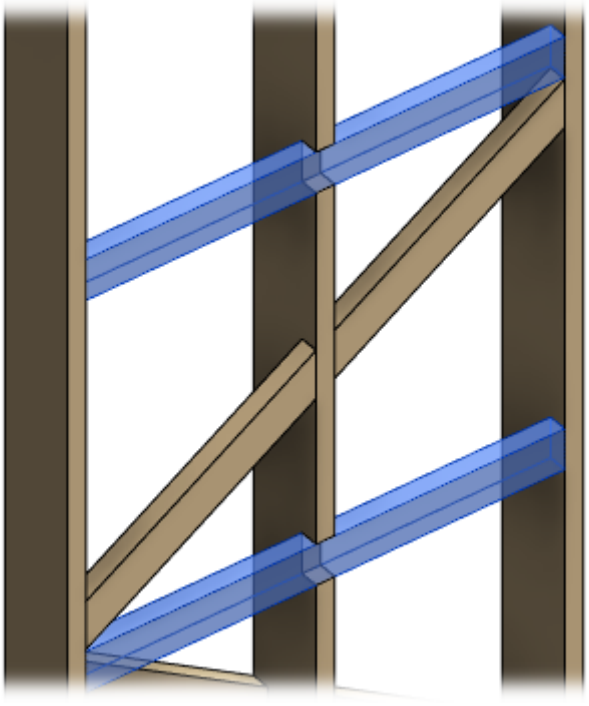
Bridging/Nogging



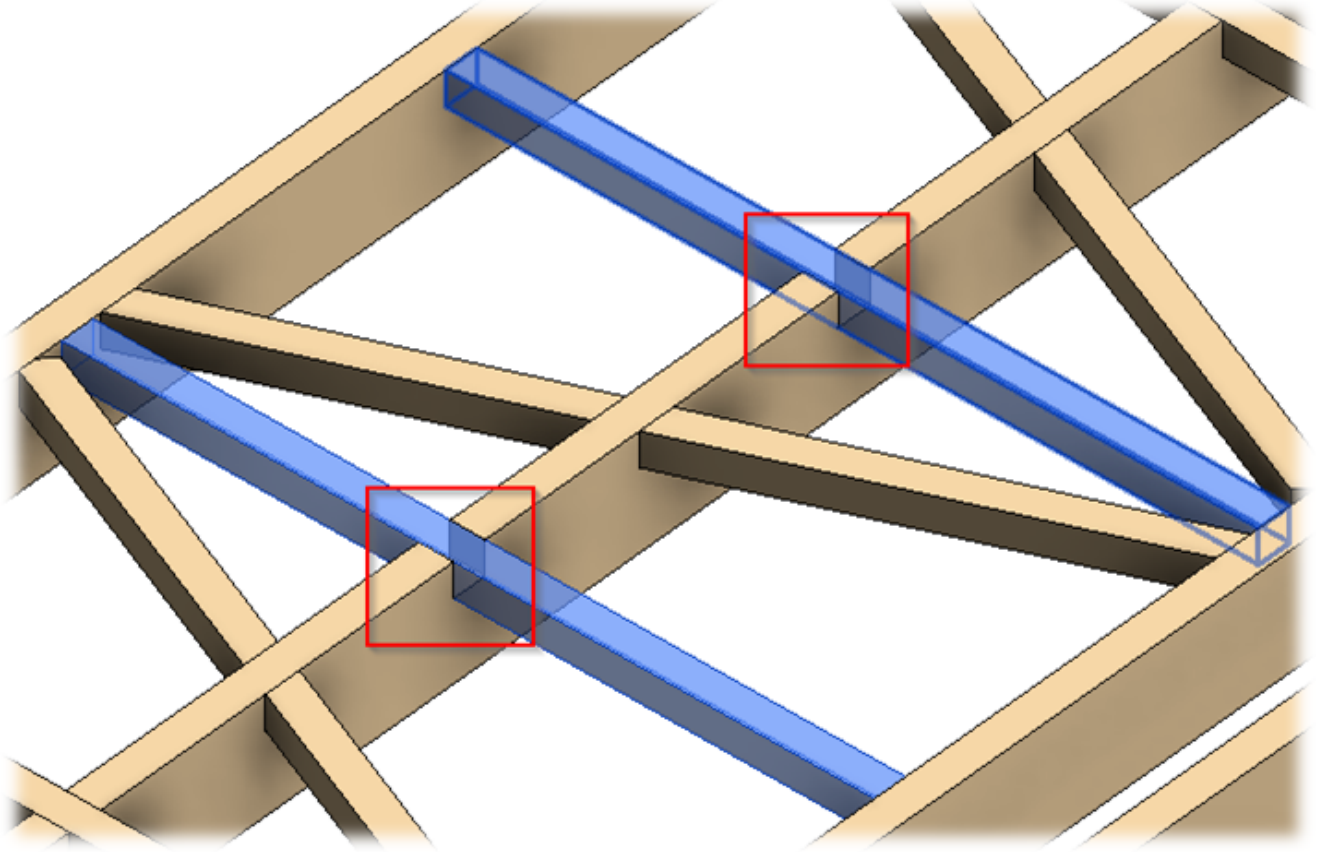
Bridging/Nogging – select bridging/nogging and stud connection cutting type.

Possible options: **Don't Cut**, **Cut Bridging/Nogging** and **Cut Bracing**.

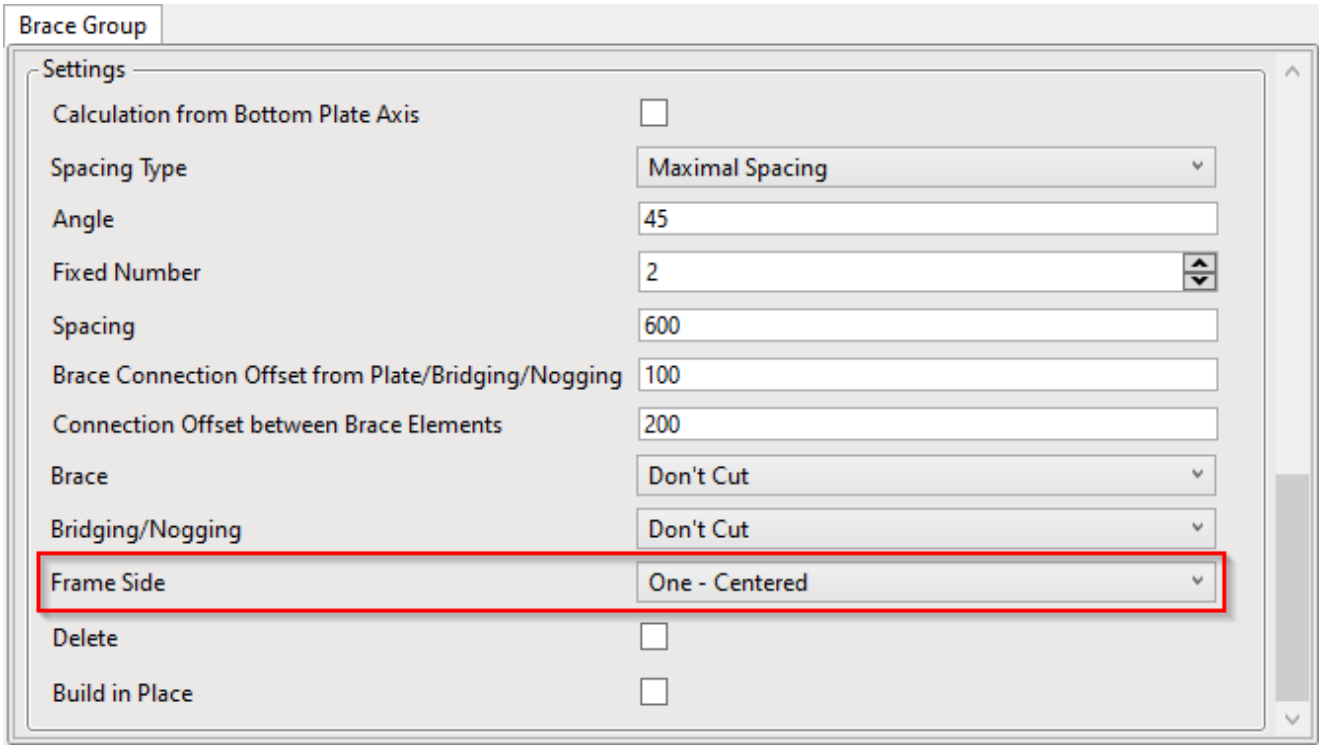
*Example with wood wall - when **Cut Studs** is selected:*



*Example with wood floor - when **Cut Joists** is selected:*

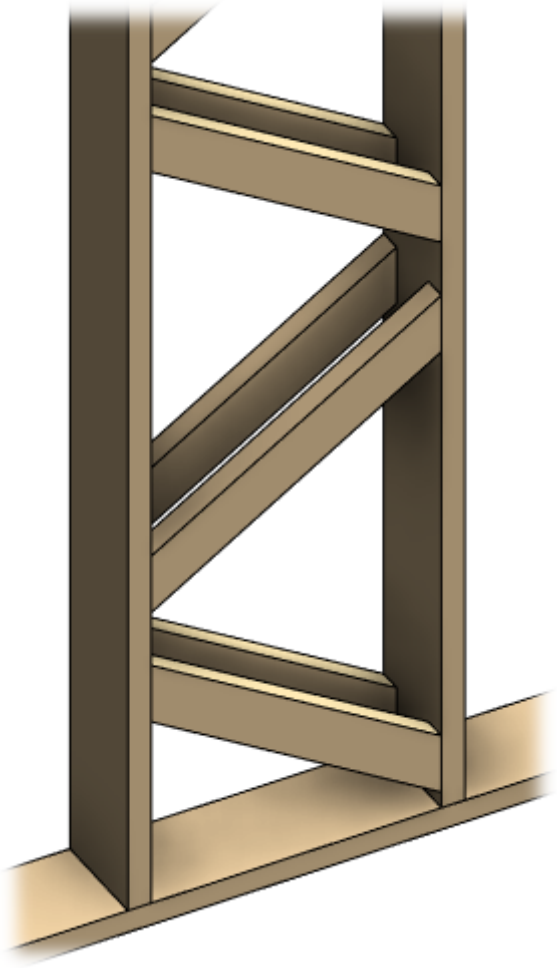


Frame Side

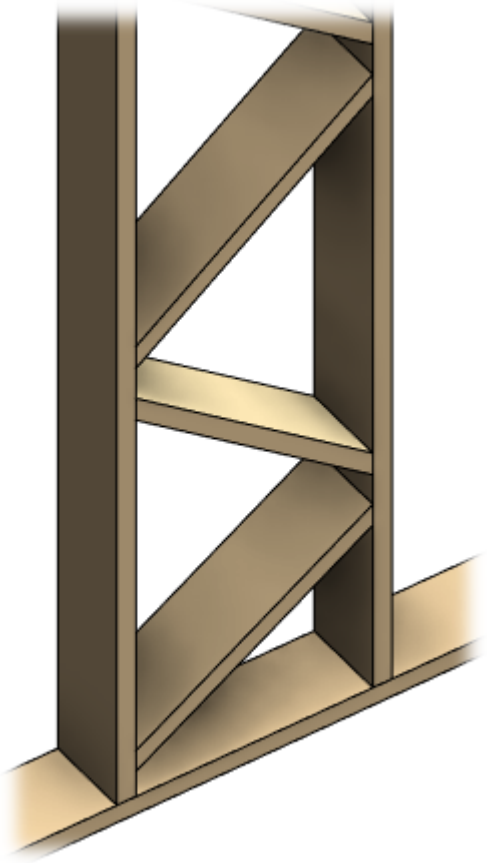


Frame Side – select whether a brace group should be applied in the center, external, internal, or on two sides of the frame.

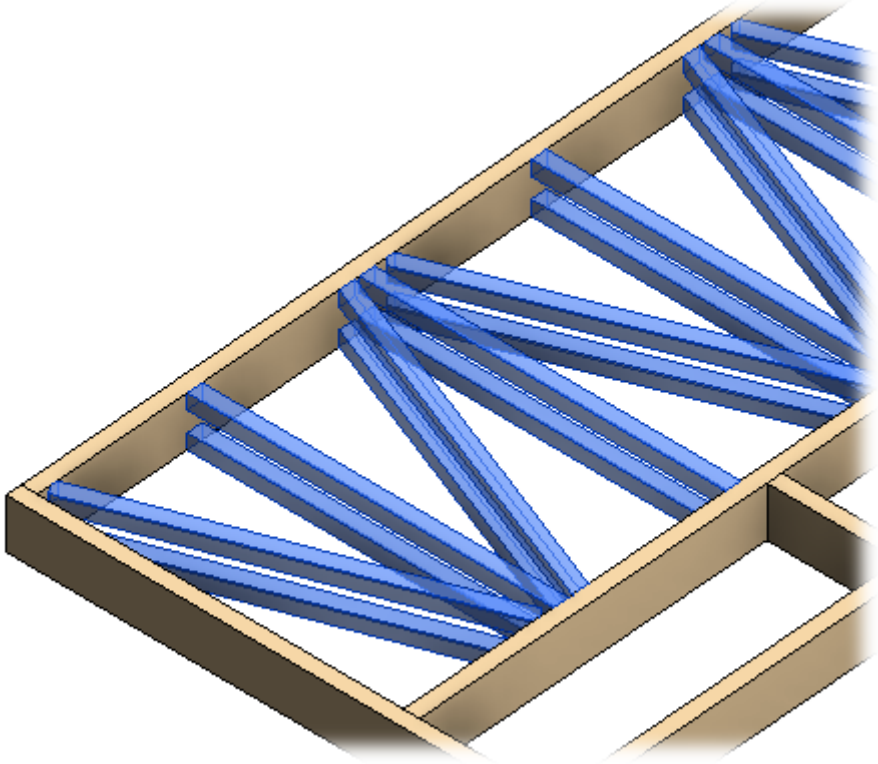
*Example with wood wall - when **Frame Side** = **Two - Sided**:*



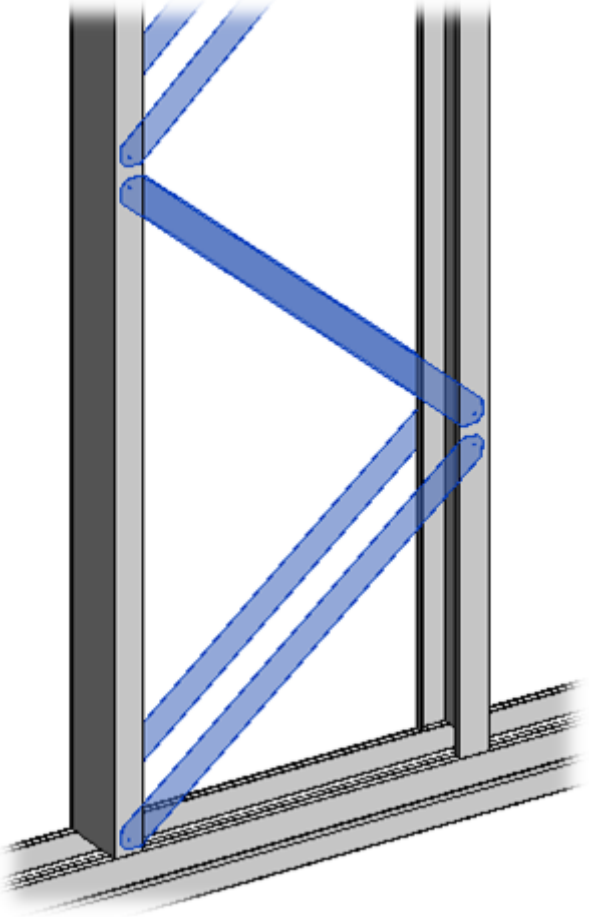
*Example with wood wall - when **Frame Side** = **Center**:*



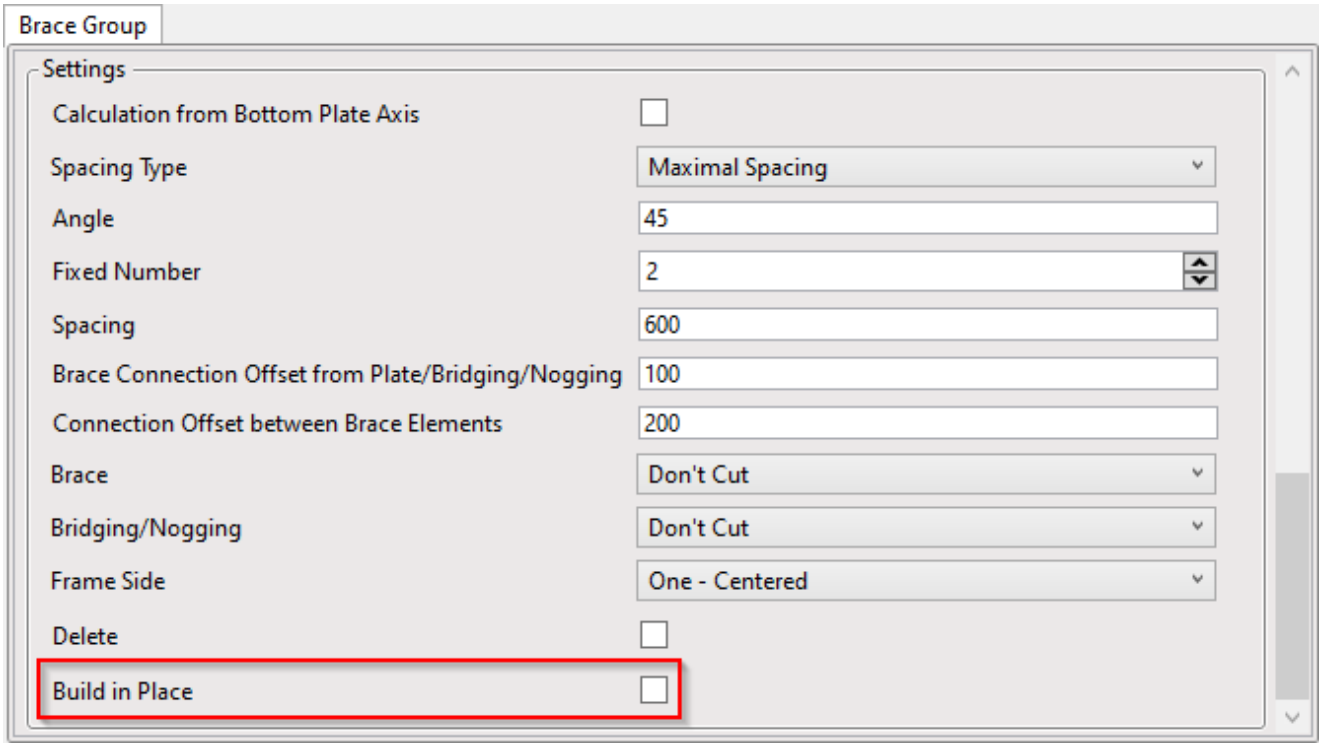
*Example with wood floor - when **Frame Side** = **Two - Sided**:*



*Example with metal frame - when **Frame Side** = **Two - Sided**:*

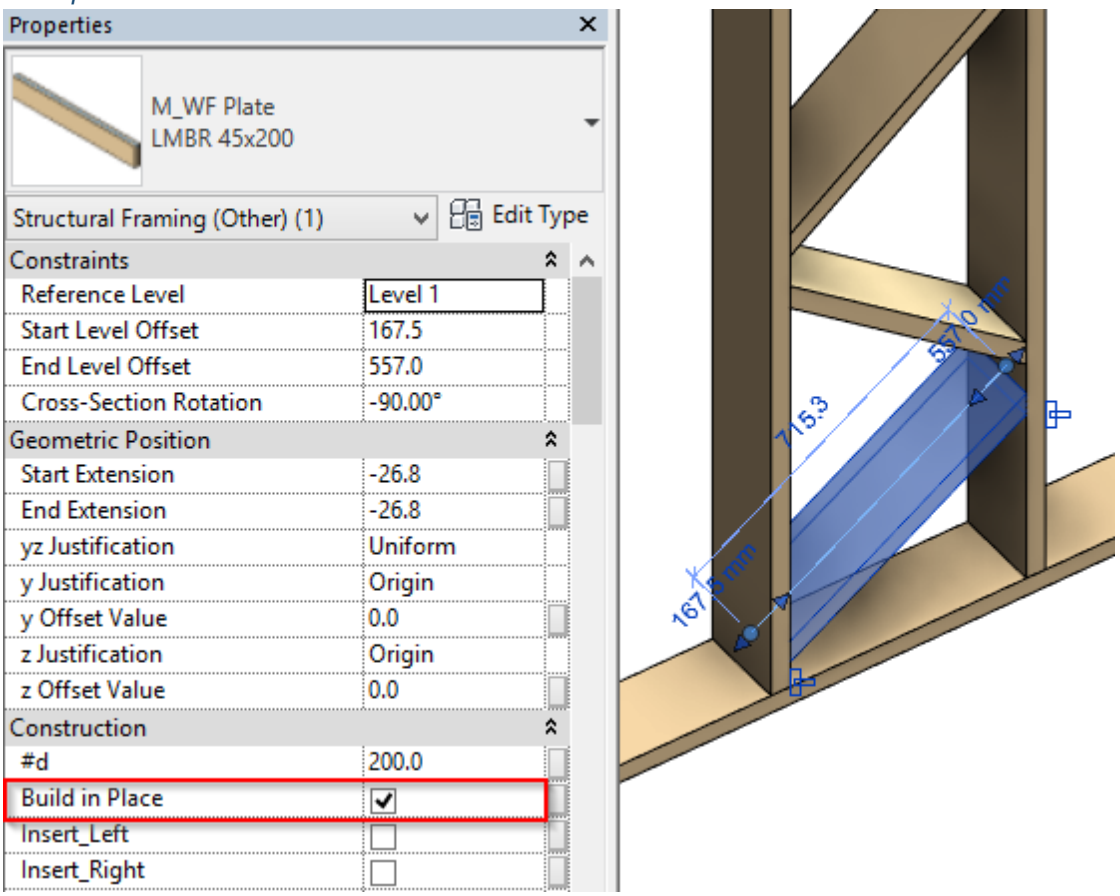


Build in Place

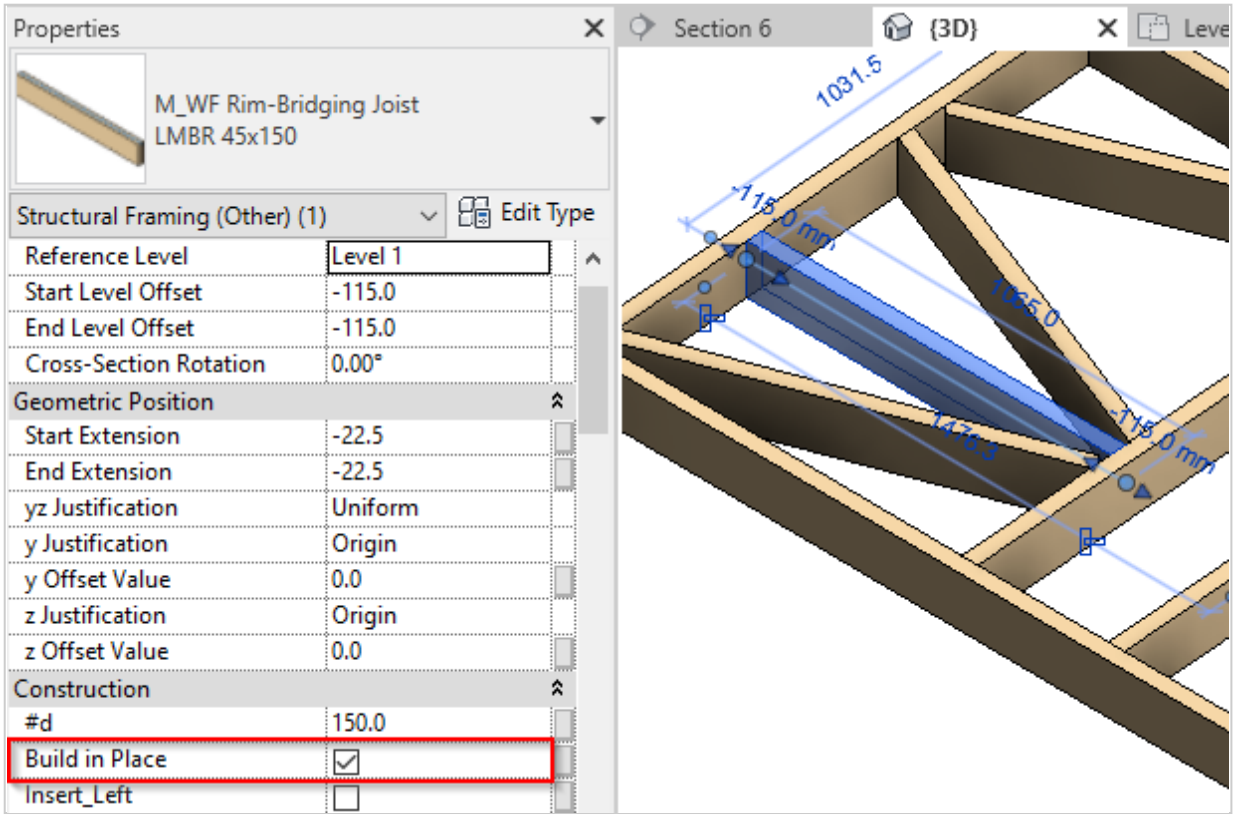


Build in Place – writes Yes/No information into the brace instance parameter if it is build-in-place or is prefabricated with whole wall frame. Later this parameter can be used in schedules or view filters.

Example with wood frame:



Example with wood floor:



Example with metal frame: