

INTRODUCTION

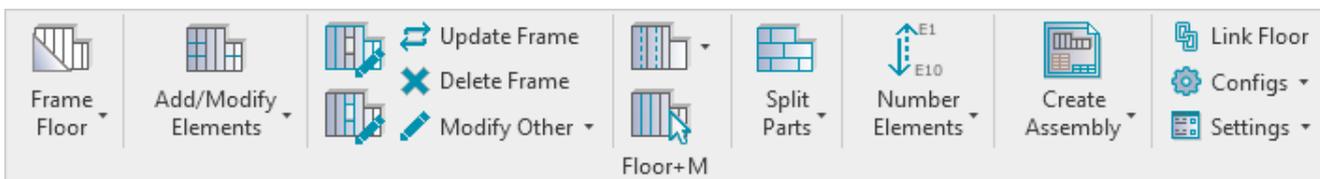
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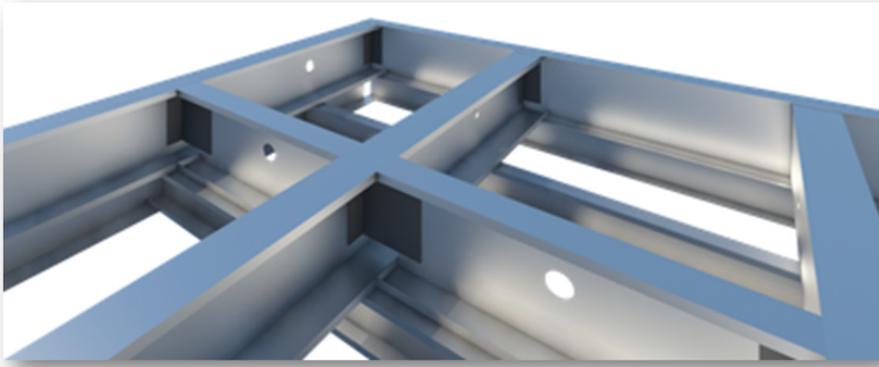
Metal Framing Floor+ application for Autodesk® Revit®

- 1....allows you to quickly pre-define your floor framing configuration and frame floors in just a few easy steps,
- 2....is an all-in-one solution with different types of framing,
- 3....lets you edit framing manually or automatically,
- 4....lets you design framing with thousands of possible configurations,
- 5....prepares shop drawings in just a few clicks, and
- 6....**saves vast amounts of time.**



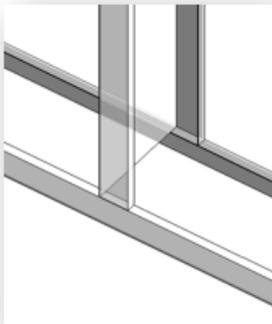
Metal Framing Floor+ makes metal framing of floors fast and easy with real-time full project updates in Revit®. Plus it generates views with automatic dimensions for floor panels or segments as well as accurate bills of materials and shop drawings. So quality production and accurate assembly on site are ensured. Solution supports both **C+C** (incl. **C+C Chamfered**), **C+U** (incl. **C+U Special**) and **U+U** framing systems.



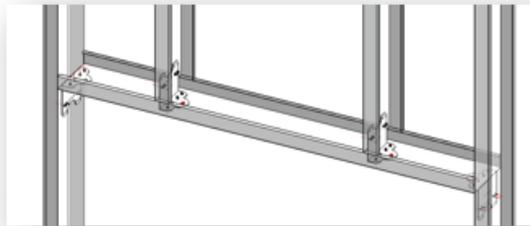


C+C system samples

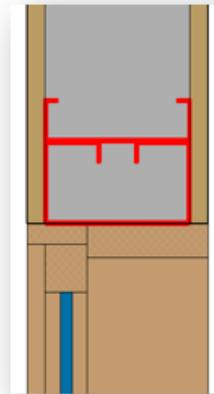
C+C stud and bottom plate (3D view):



C+C simple header (3D view):

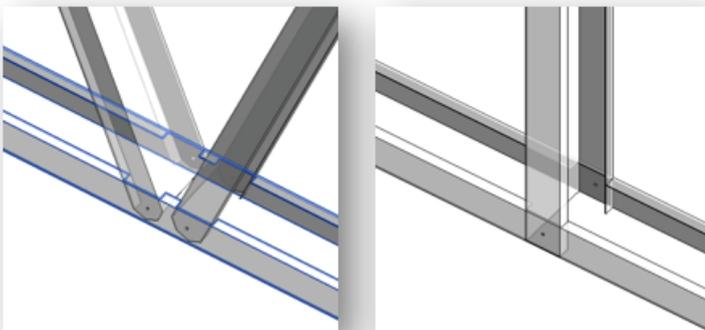


C+C complex header (Section view):

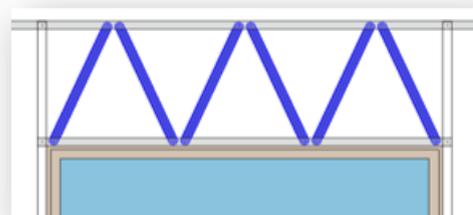


C+C Chamfered system samples

C+C with cuts and chamfered ends if needed (3D view):

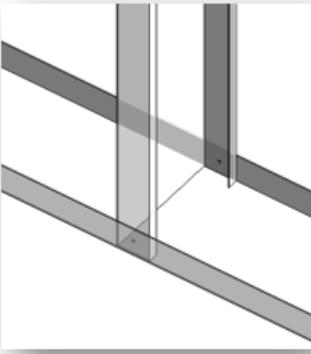


C+C Chamfered warren diagonal cripples above the window (Front side view):

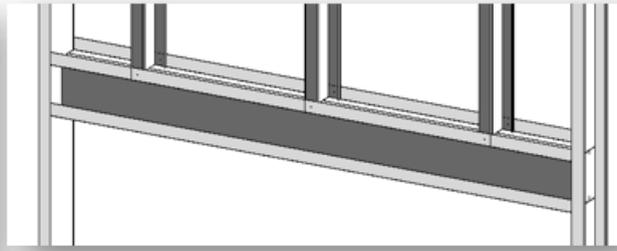


C+U system samples

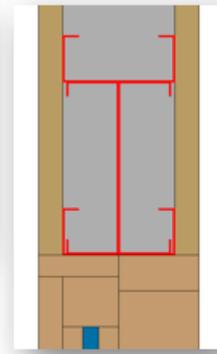
C+U stud and bottom track (3D view):



C+U window header (3D view):



C+U window header (Section view):

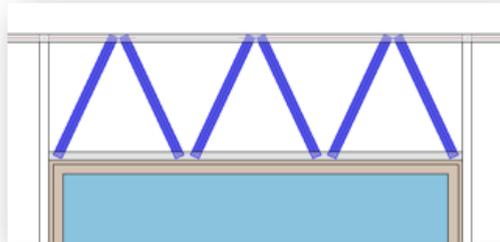


C+U Special system samples

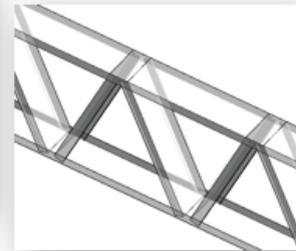
C+U Special window header (3D view):



C+U Special warren diagonal cripples above the window (Front side view):



C+U Special warren diagonal cripples above the window (3D view):



Recommended workflow

1. Build a model using Revit **Floor+M** functionality
2. Create floor types with layers → assign materials
4. **Floor+M** → **Settings** → **Load Families**
5. **Floor+M** → **Configs** → define **Framing Configuration**
6. **Floor+M** → map floor types with framing configuration using **Link Floor**
7. **Floor+M** → frame floor panels
8. **Floor+M** → **Number Elements** → number floors using **Number Floors**
9. **Floor+M** → number framing elements using **Number Elements**
10. **Floor+M** → **Configs** → define **Drawing Configuration**
11. **Floor+M** → make shop drawings for one floor using **Create Assembly**
12. Add shop drawing views into the sheet for one floor and save it as a template for future floor segments
13. **Floor+M** → make shop drawings for other floor segments

Best practices for making floors in Revit

Floor structure should be layered out in the way the parts of the framing will be modeled, e.g.:

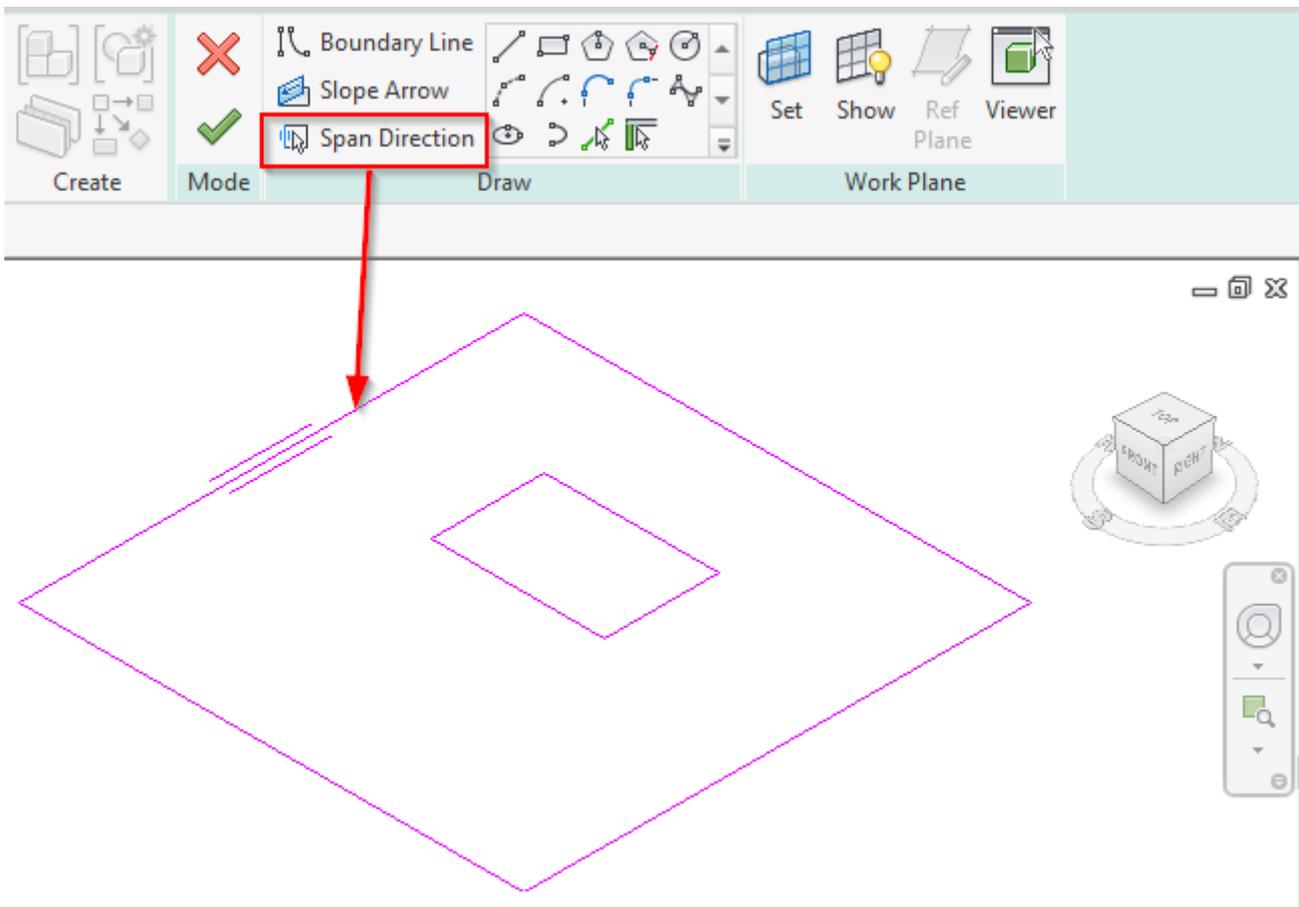
1. Sheathing

2. Main frame
3. Battens
4. Sheathing

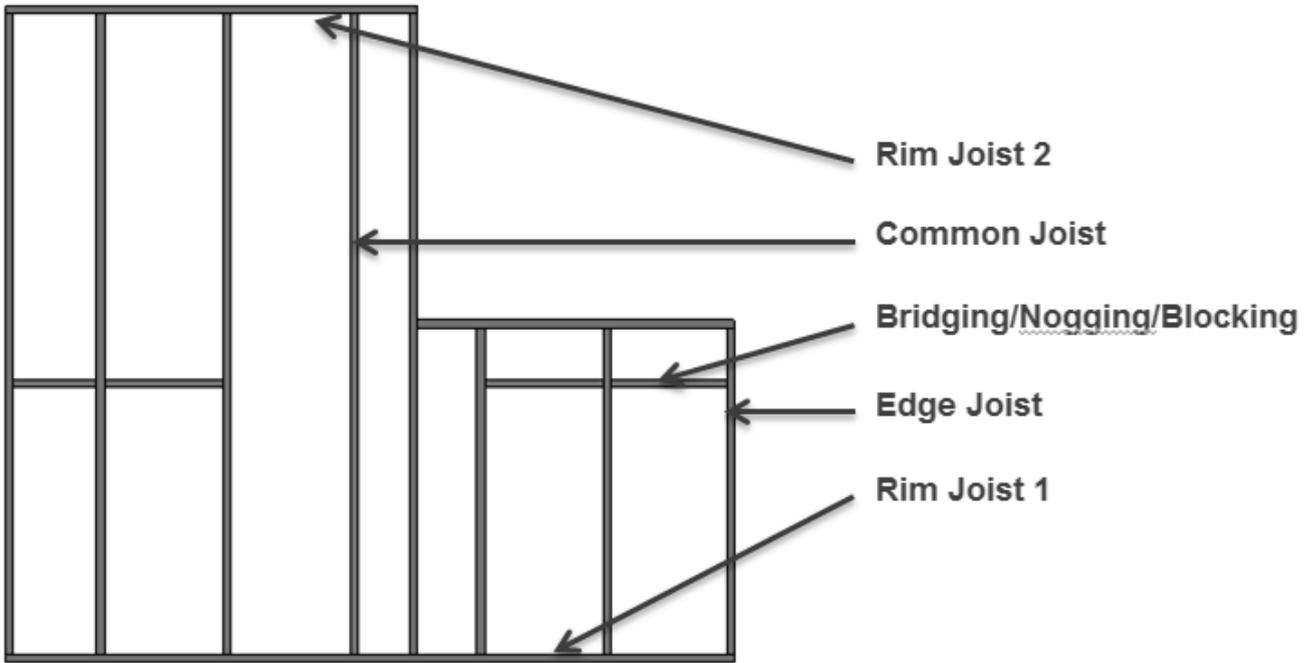
Layers					
	Function	Material	Thickness	Wraps	Structural Material
1	Finish 1 [4]	Wood - Sheathing - plywood	0.75"	<input type="checkbox"/>	<input type="checkbox"/>
2	Core Boundary	Layers Above Wrap	0.00"		
3	Structure [1]	Metal Stud Layer	10.00"	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Core Boundary	Layers Below Wrap	0.00"		
5	Substrate [2]	Metal Stud Layer	3.50"	<input type="checkbox"/>	<input type="checkbox"/>
6	Finish 1 [4]	Wood - Sheathing - plywood	0.75"	<input type="checkbox"/>	<input type="checkbox"/>

Materials for every layer are mandatory.

Frame direction deepens in **Span Direction** in the Floor Boundary:



Main framing elements



Main framing elements according to slope position:

