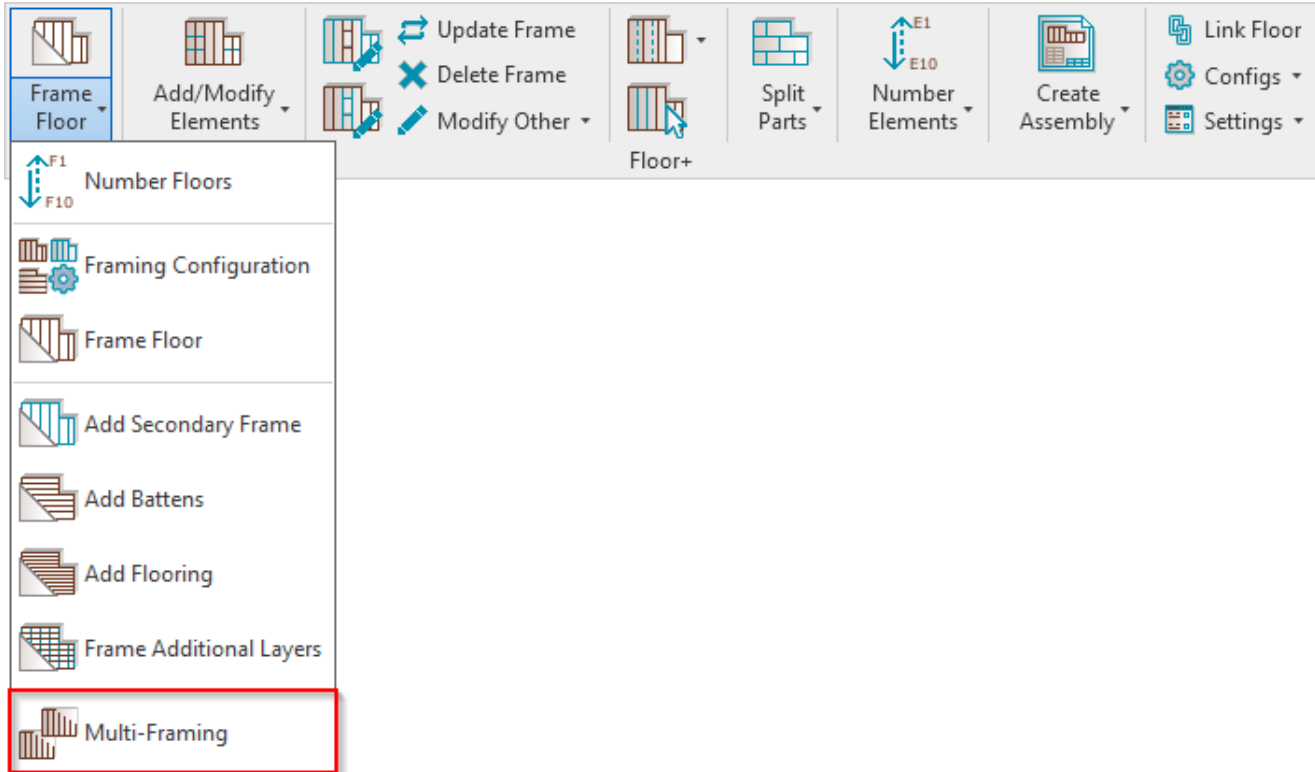


MULTI-FRAMING

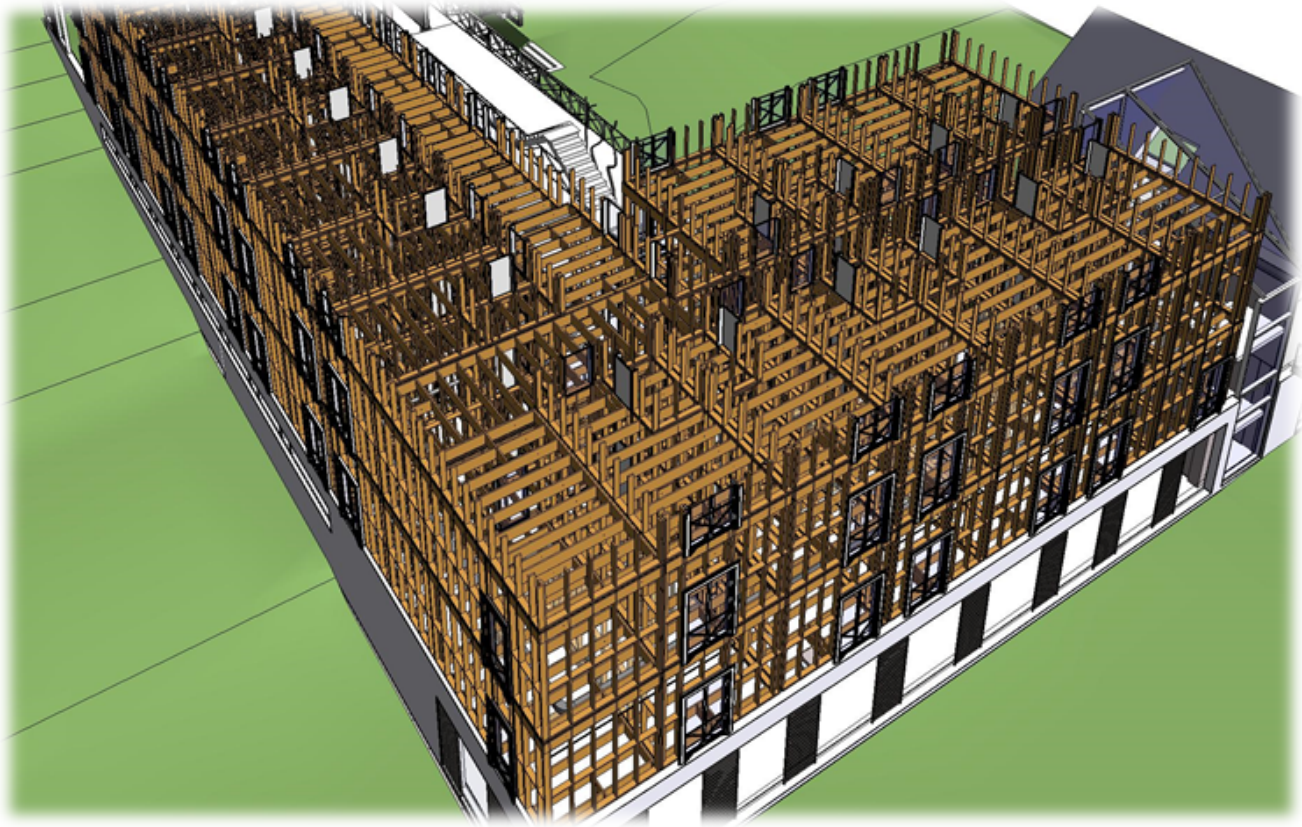
Modified on: Wed, 14 Aug, 2019 at 4:26 PM

Multi-Framing



Multi-Framing features work extremely well in big projects, like multi-storey houses.

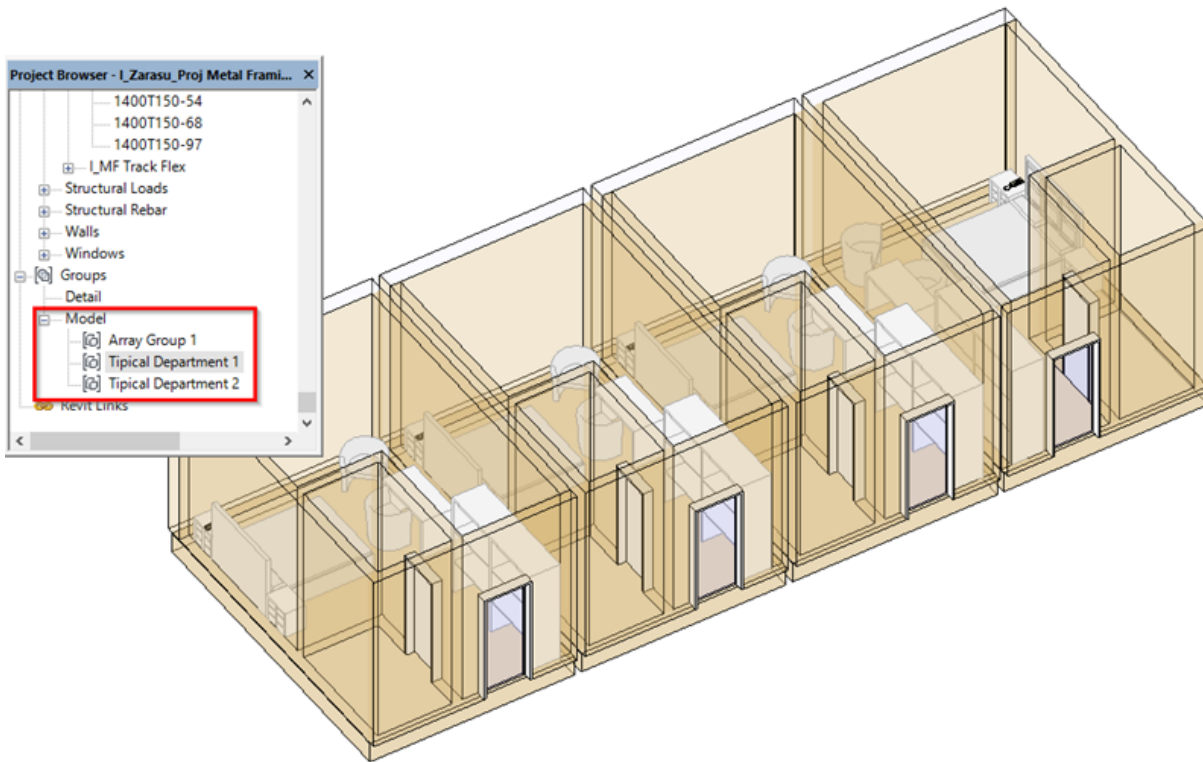
An additional window opens that contains tools for multi-framing tasks. Multi-Framing is used when there are groups or identical floors in a given project. Using Multi-Framing tools you can easily transfer framing elements between identical floors and update them automatically.



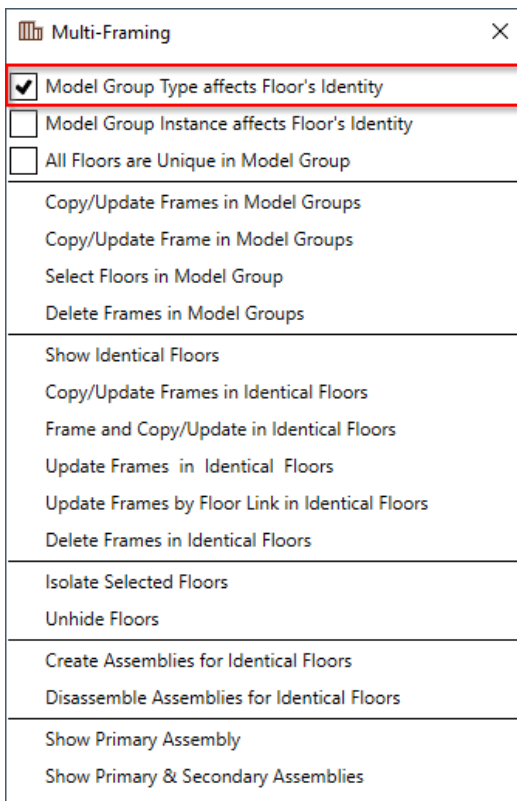
Filtering Rules in Model Groups

Multi-Framing	
<input checked="" type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups	
Copy/Update Frame in Model Groups	
Select Floors in Model Group	
Delete Frames in Model Groups	
Show Identical Floors	
Copy/Update Frames in Identical Floors	
Frame and Copy/Update in Identical Floors	
Update Frames in Identical Floors	
Update Frames by Floor Link in Identical Floors	
Delete Frames in Identical Floors	
Isolate Selected Floors	
Unhide Floors	
Create Assemblies for Identical Floors	
Disassemble Assemblies for Identical Floors	
Show Primary Assembly	
Show Primary & Secondary Assemblies	

Filtering rules for work with floors from model groups. **Model Groups** should be created using Revit's **Create Group** function.

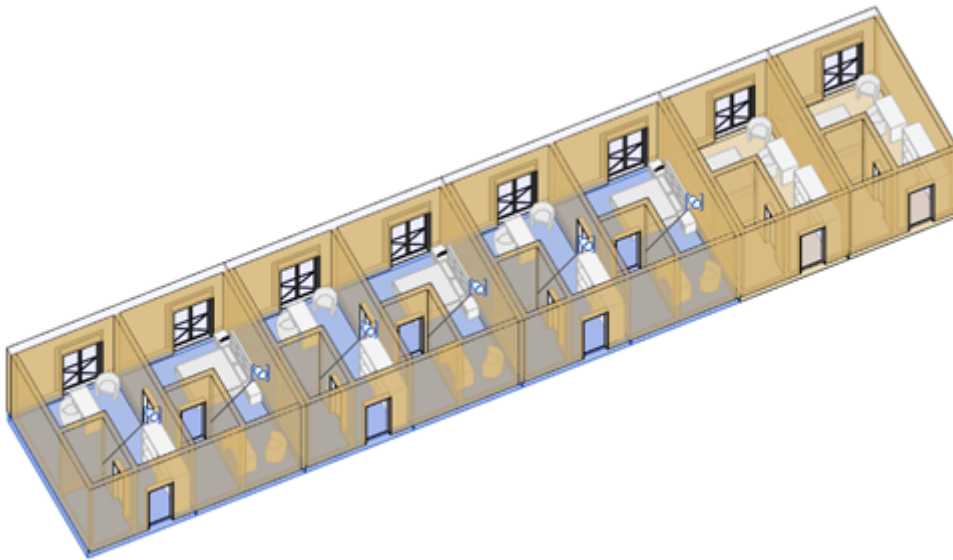


Model Group Type affects Floor's Identity



Model Group Type affects Floor's Identity – sets filtering rules if floor's identity is affected by Model Group type. If ticked, only identical floors of the same Model Group type will be treated as the same floor.

Example: Identical floors are selected from the same model group type.

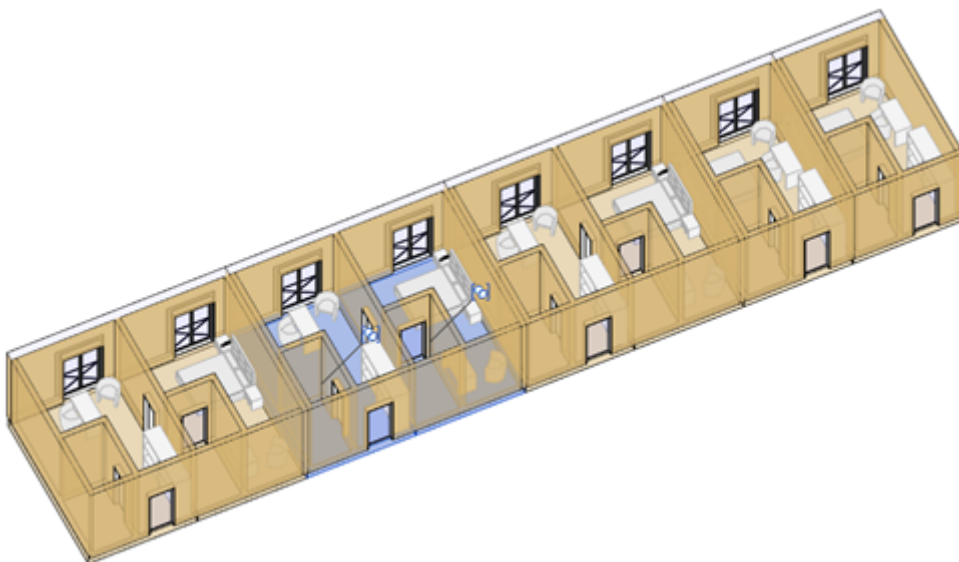


Model Group Instance affects Floor's Identity

Multi-Framing	
<input type="checkbox"/>	Model Group Type affects Floor's Identity
<input checked="" type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups	
Copy/Update Frame in Model Groups	
Select Floors in Model Group	
Delete Frames in Model Groups	
Show Identical Floors	
Copy/Update Frames in Identical Floors	
Frame and Copy/Update in Identical Floors	
Update Frames in Identical Floors	
Update Frames by Floor Link in Identical Floors	
Delete Frames in Identical Floors	
Isolate Selected Floors	
Unhide Floors	
Create Assemblies for Identical Floors	
Disassemble Assemblies for Identical Floors	
Show Primary Assembly	
Show Primary & Secondary Assemblies	

Model Group Instance affects Floor's Identity – sets filtering rules if floor's identity is affected by Model Group instance (only selected Model Group).

Example: Identical floors are selected from the selected model group instance.

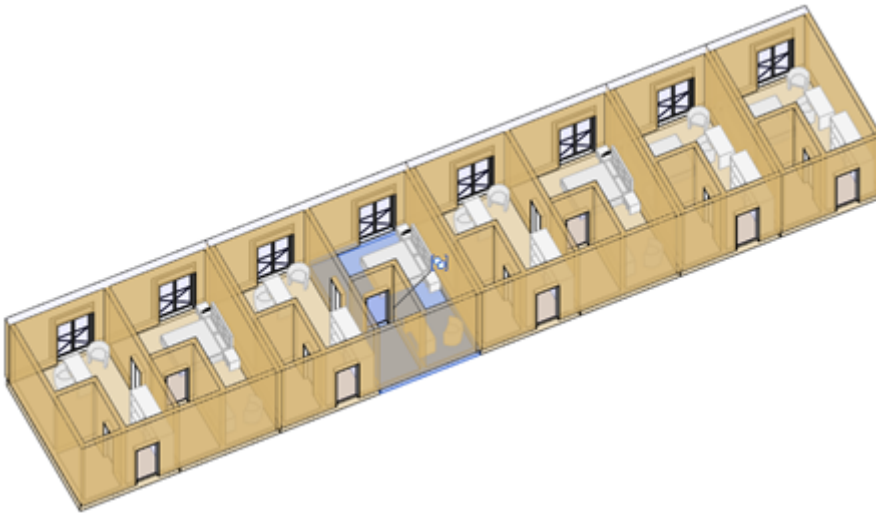


All Floors are Unique in Model Group

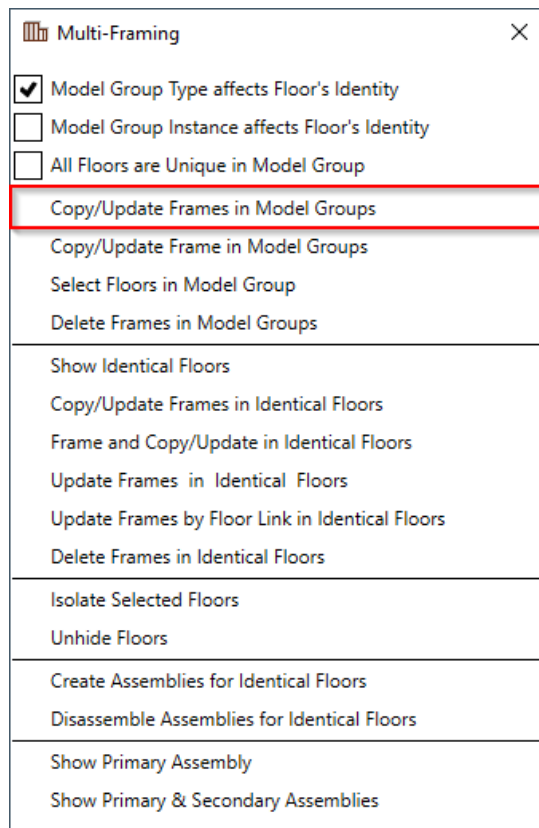
Multi-Framing	
<input type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input checked="" type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups	
Copy/Update Frame in Model Groups	
Select Floors in Model Group	
Delete Frames in Model Groups	
Show Identical Floors	
Copy/Update Frames in Identical Floors	
Frame and Copy/Update in Identical Floors	
Update Frames in Identical Floors	
Update Frames by Floor Link in Identical Floors	
Delete Frames in Identical Floors	
Isolate Selected Floors	
Unhide Floors	
Create Assemblies for Identical Floors	
Disassemble Assemblies for Identical Floors	
Show Primary Assembly	
Show Primary & Secondary Assemblies	

All Floors are Unique in Model Group – lets you treat each Floor Framing individually. This function is recommended when some identical floors in Model Group need to be framed differently.

Example: Only one floor is selected from model group, which will have unique framing

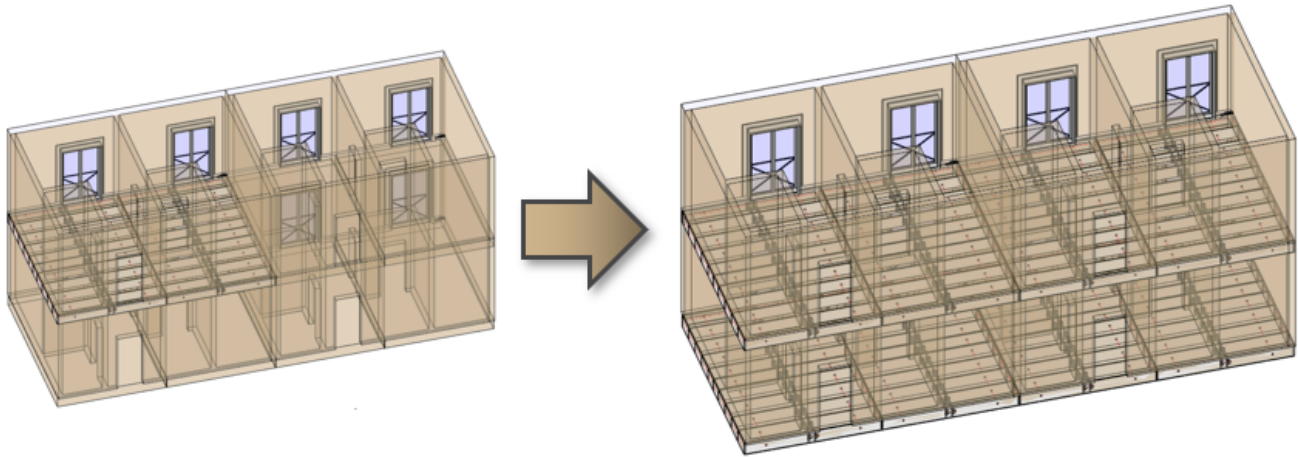


Copy/Update Frames in Model Groups



Copy/Update Frame in Model Groups – copies and/or updates all frames from selected Model Group into identical floors from the same Model Groups.

This feature helps save time because you will not need to frame floors from the same model groups individually. You just need to frame floors from one group and then, using this feature, copy/update it to other identical floors from the same groups.

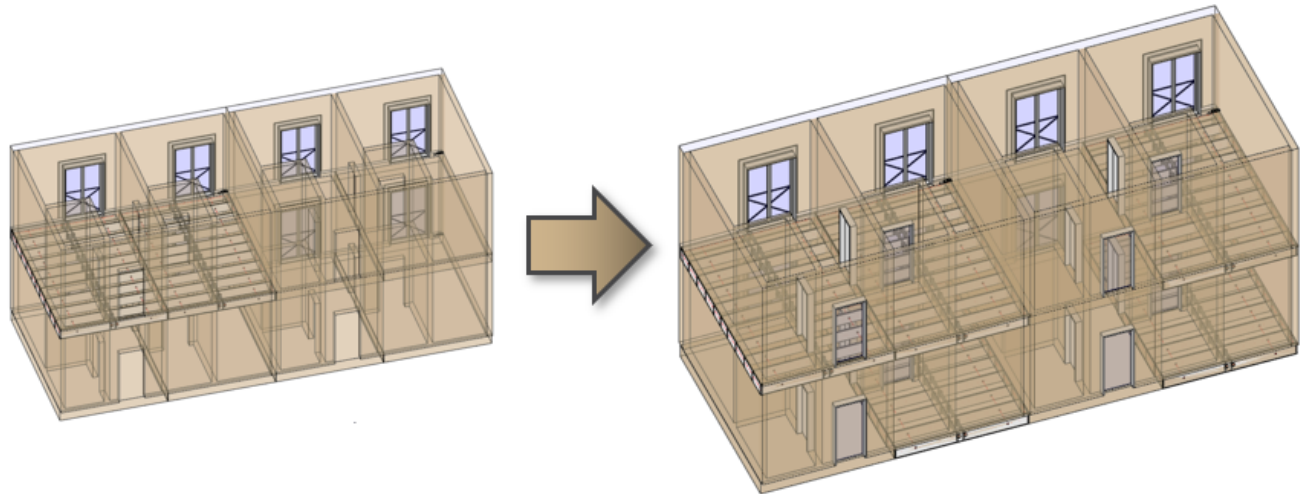


Copy/Update Frame in Model Groups

Multi-Framing	
<input checked="" type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups	
Copy/Update Frame in Model Groups	
Select Floors in Model Group	
Delete Frames in Model Groups	
Show Identical Floors	
Copy/Update Frames in Identical Floors	
Frame and Copy/Update in Identical Floors	
Update Frames in Identical Floors	
Update Frames by Floor Link in Identical Floors	
Delete Frames in Identical Floors	
Isolate Selected Floors	
Unhide Floors	
Create Assemblies for Identical Floors	
Disassemble Assemblies for Identical Floors	
Show Primary Assembly	
Show Primary & Secondary Assemblies	

Copy/Update Frame in Model Groups – copies (and/or updates) selected frame into identical floors from the same Model Groups.

This feature helps save time because you will not need to frame floors from same model groups individually. You just need to frame one floor from one group and then, using this feature, copy/update it to other identical floors from the same groups.



Select Floors in Model Group

Multi-Framing

×

☒ Model Group Type affects Floor's Identity

☐ Model Group Instance affects Floor's Identity

☐ All Floors are Unique in Model Group

Copy/Update Frames in Model Groups

Copy/Update Frame in Model Groups

Select Floors in Model Group

Delete Frames in Model Groups

Show Identical Floors

Copy/Update Frames in Identical Floors

Frame and Copy/Update in Identical Floors

Update Frames in Identical Floors

Update Frames by Floor Link in Identical Floors

Delete Frames in Identical Floors

Isolate Selected Floors

Unhide Floors

Create Assemblies for Identical Floors

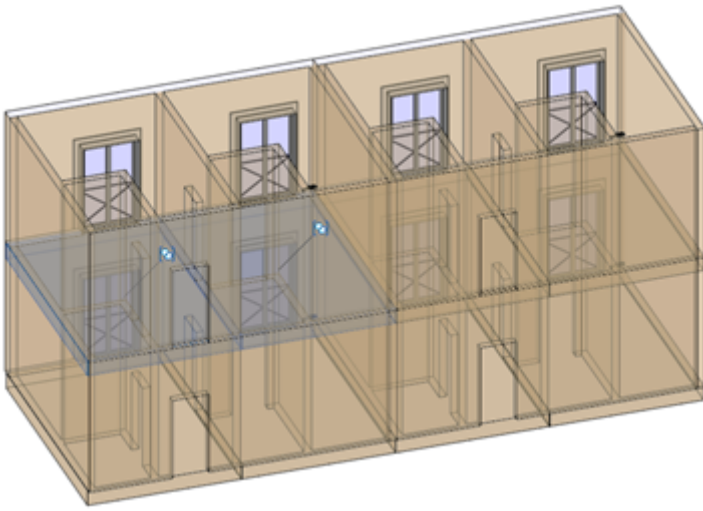
Disassemble Assemblies for Identical Floors

Show Primary Assembly

Show Primary & Secondary Assemblies

Select Floors in Model Group – selects all floors from selected Model Group.

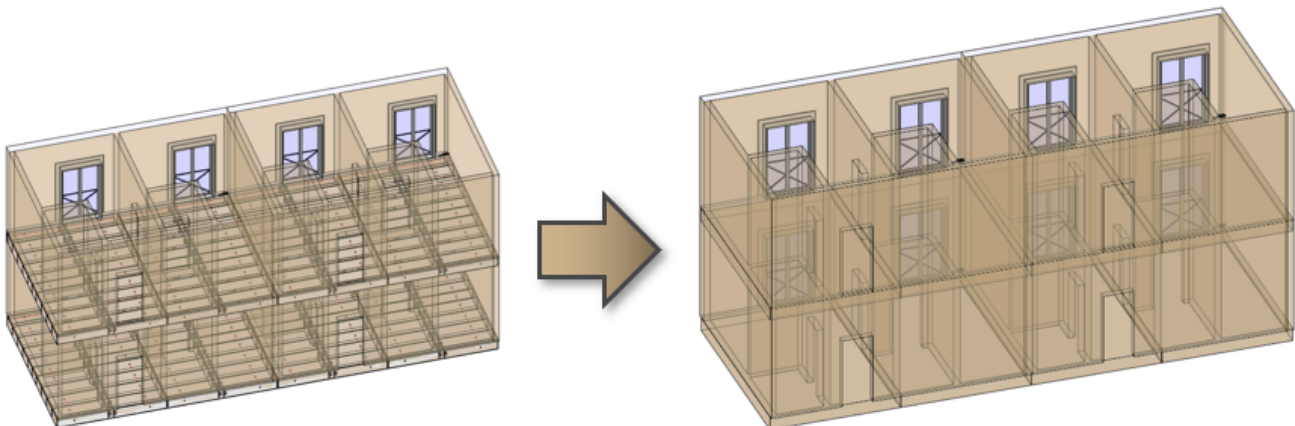
After selecting floors, you can frame floors using **Frame Floor** feature.




Delete Frames in Model Group

Multi-Framing	
<input checked="" type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups	
Copy/Update Frame in Model Groups	
Select Floors in Model Group	
Delete Frames in Model Groups	
Show Identical Floors	
Copy/Update Frames in Identical Floors	
Frame and Copy/Update in Identical Floors	
Update Frames in Identical Floors	
Update Frames by Floor Link in Identical Floors	
Delete Frames in Identical Floors	
Isolate Selected Floors	
Unhide Floors	
Create Assemblies for Identical Floors	
Disassemble Assemblies for Identical Floors	
Show Primary Assembly	
Show Primary & Secondary Assemblies	

Delete Frames in Model Group – deletes all frames from identical Model Groups.



Show Identical Floors

 Multi-Framing ×

☒ Model Group Type affects Floor's Identity
☐ Model Group Instance affects Floor's Identity
☐ All Floors are Unique in Model Group

Copy/Update Frames in Model Groups
Copy/Update Frame in Model Groups
Select Floors in Model Group
Delete Frames in Model Groups

Show Identical Floors

Copy/Update Frames in Identical Floors
Frame and Copy/Update in Identical Floors
Update Frames in Identical Floors
Update Frames by Floor Link in Identical Floors
Delete Frames in Identical Floors

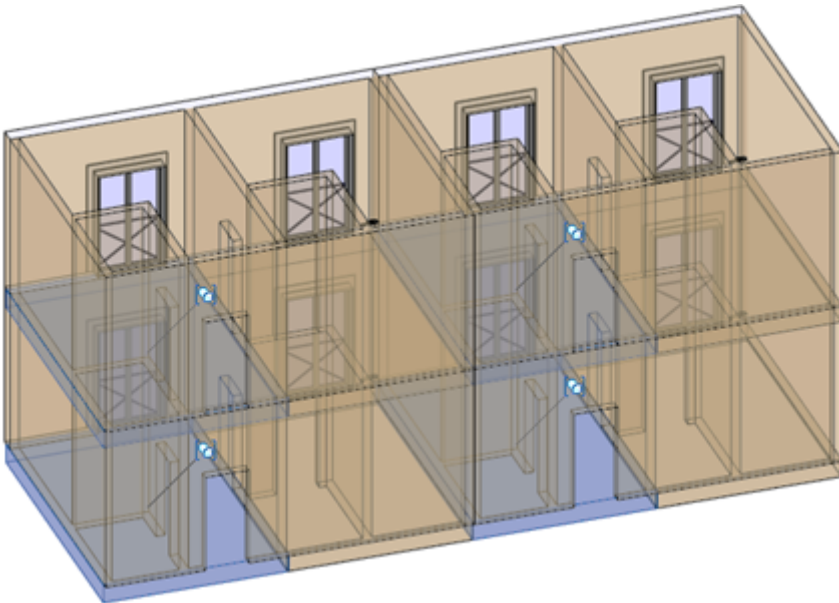
Isolate Selected Floors
Unhide Floors

Create Assemblies for Identical Floors
Disassemble Assemblies for Identical Floors

Show Primary Assembly
Show Primary & Secondary Assemblies

Show Identical Floors – selects and shows identical floors in the project according to Model Group filtering rules.

Identical floors are those floors that are identical according to their geometry.



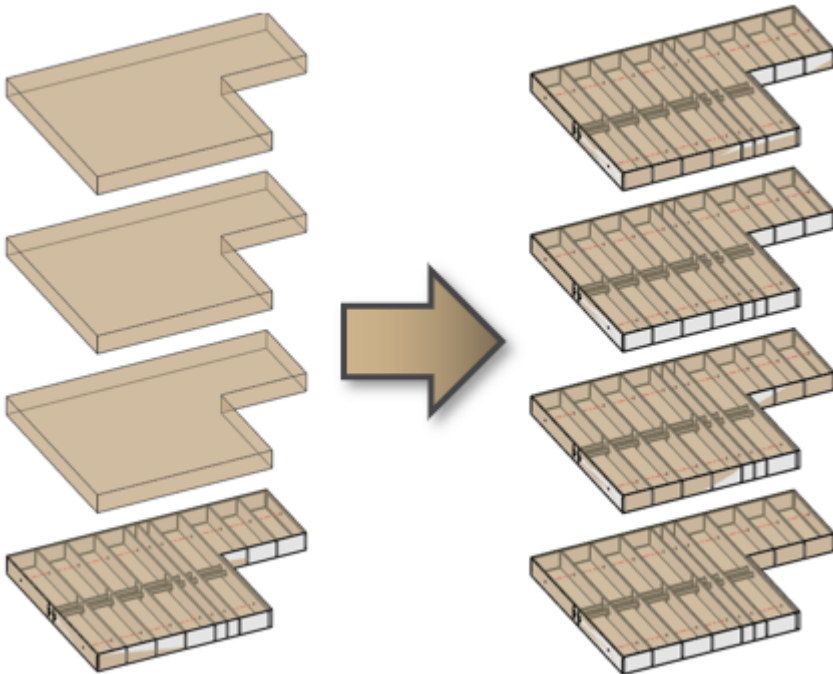
Copy/Update Frames in Identical Floors

Multi-Framing	
<input checked="" type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups Copy/Update Frame in Model Groups Select Floors in Model Group Delete Frames in Model Groups	
Show Identical Floors	
Copy/Update Frames in Identical Floors	
Frame and Copy/Update in Identical Floors	
Update Frames in Identical Floors	
Update Frames by Floor Link in Identical Floors	
Delete Frames in Identical Floors	
Isolate Selected Floors	
Unhide Floors	
Create Assemblies for Identical Floors	
Disassemble Assemblies for Identical Floors	
Show Primary Assembly	
Show Primary & Secondary Assemblies	

Copy/Update Frames in Identical Floors – copies selected Frame or Secondary Frame into identical floors and/or updates existing Frame of identical floors. All changes will be transferred and overwritten according to the filtering rules.

Identical floors can be in the group or not.

This function is recommended when a primary floor is framed (with all additional elements if needed) and all identical floors need to be framed according to the primary floor.



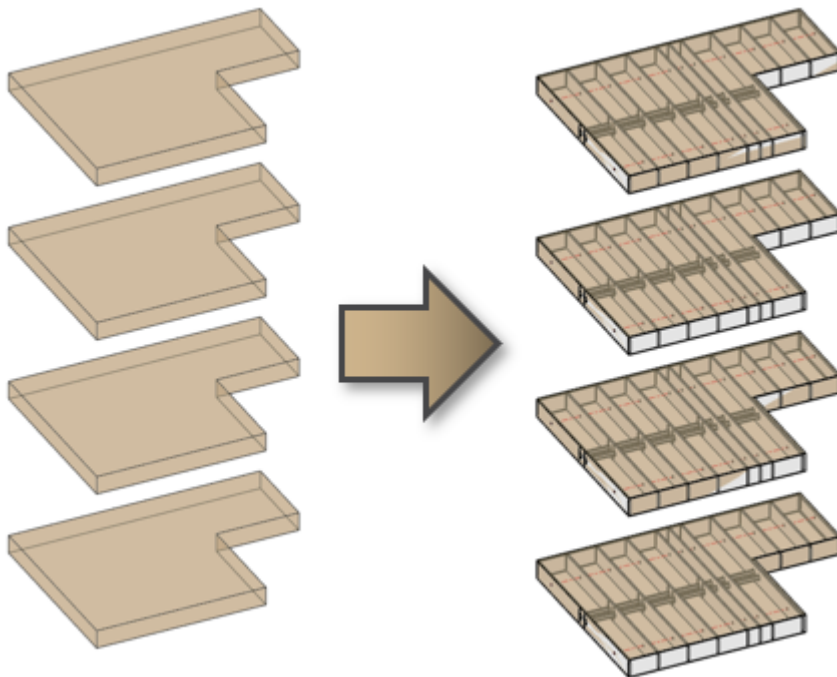
Frame and Copy/Update in Identical Floors

Multi-Framing	
<input checked="" type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups Copy/Update Frame in Model Groups Select Floors in Model Group Delete Frames in Model Groups	
Show Identical Floors Copy/Update Frames in Identical Floors Frame and Copy/Update in Identical Floors	
Update Frames in Identical Floors Update Frames by Floor Link in Identical Floors Delete Frames in Identical Floors	
Isolate Selected Floors Unhide Floors	
Create Assemblies for Identical Floors Disassemble Assemblies for Identical Floors	
Show Primary Assembly Show Primary & Secondary Assemblies	

Frame and Copy/Update in Identical Floors – frames selected floor according to its **Framing Configuration** and then copies selected floor's Frame into identical floors and/or replaces existing Frame of identical floors. All framing elements will be transferred and overwritten according to filtering rules.

Identical floors can be in the group or not.

This function is recommended when all identical floors have to be framed only according to the **Framing Configuration** and manually-placed elements or modifications are not needed.

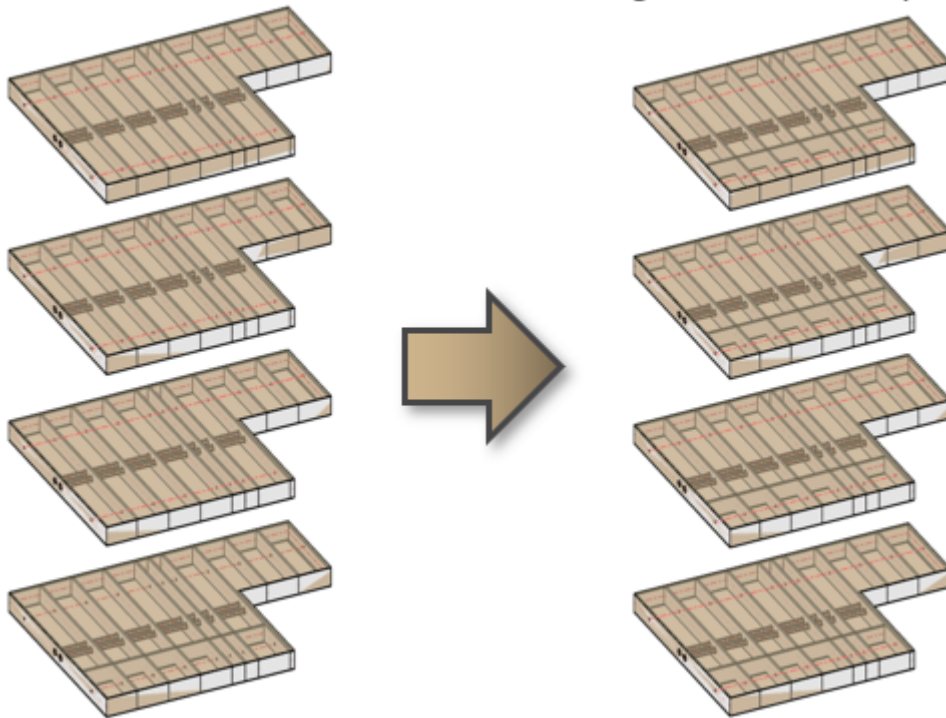


Update Frames in Identical Floors

Multi-Framing	
<input checked="" type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups	
Copy/Update Frame in Model Groups	
Select Floors in Model Group	
Delete Frames in Model Groups	
Show Identical Floors	
Copy/Update Frames in Identical Floors	
Frame and Copy/Update in Identical Floors	
Update Frames in Identical Floors	
Update Frames by Floor Link in Identical Floors	
Delete Frames in Identical Floors	
Isolate Selected Floors	
Unhide Floors	
Create Assemblies for Identical Floors	
Disassemble Assemblies for Identical Floors	
Show Primary Assembly	
Show Primary & Secondary Assemblies	

Update Frames in Identical Floors – updates all framing elements in identical floors according to the changes that were made to framing elements of the selected floor. All framing elements will update according to filtering rules.

Identical floors can be in the group or by themselves.

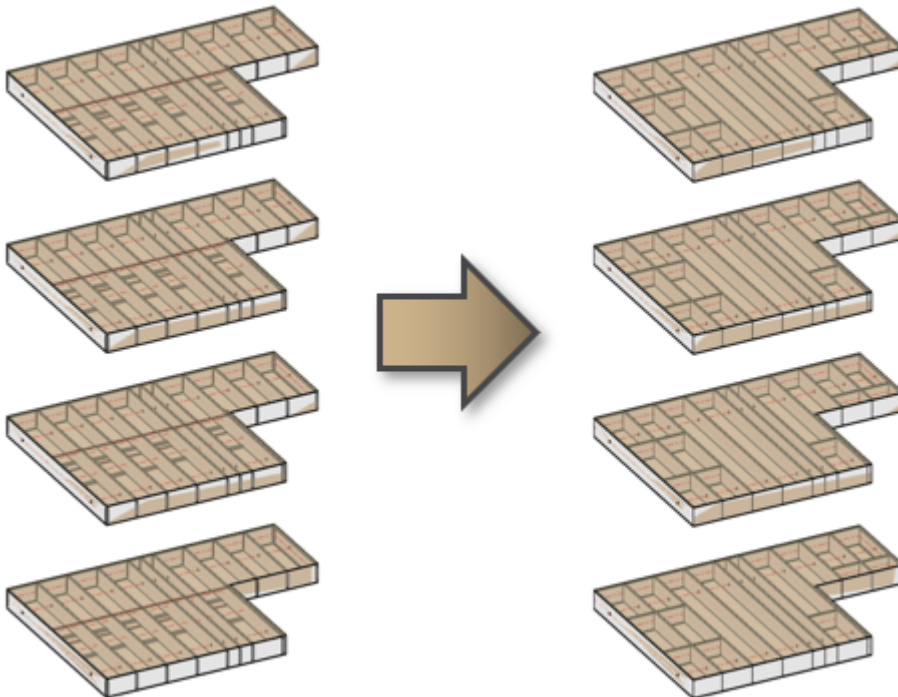


Update Frames by Floor Link in Identical Floors

Multi-Framing	
<input checked="" type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups Copy/Update Frame in Model Groups Select Floors in Model Group Delete Frames in Model Groups	
Show Identical Floors Copy/Update Frames in Identical Floors Frame and Copy/Update in Identical Floors Update Frames in Identical Floors Update Frames by Floor Link in Identical Floors	
Delete Frames in Identical Floors	
Isolate Selected Floors Unhide Floors	
Create Assemblies for Identical Floors Disassemble Assemblies for Identical Floors	
Show Primary Assembly Show Primary & Secondary Assemblies	

Update Frames by Floor Link in Identical Floors – updates all framing elements in identical floors according to **Framing Configuration** of the selected floor in **Link Floor** assignment. All framing elements will be transferred and overwritten according to filtering rules.

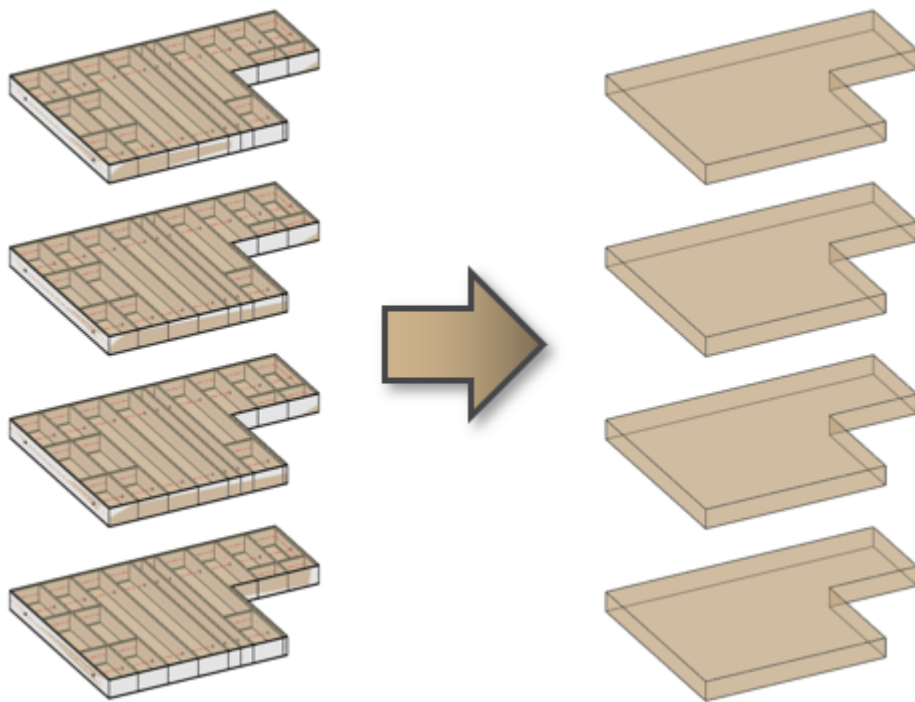
Identical floors can be in the group or by themselves.



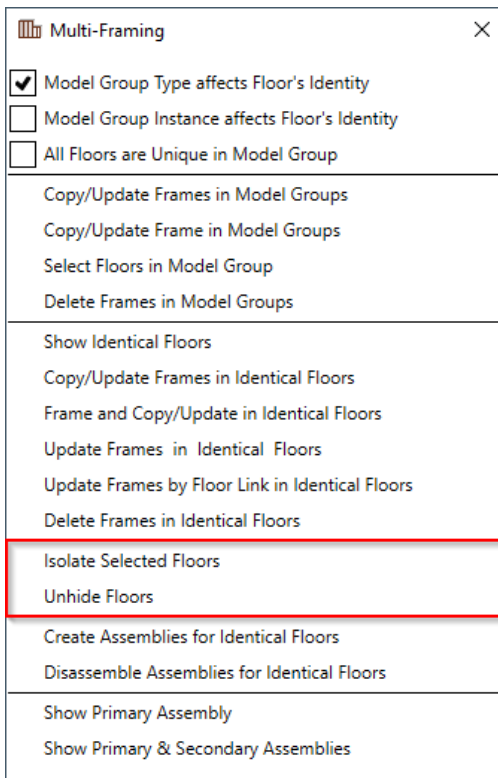
Delete Frame in Identical Floors

Multi-Framing	
<input checked="" type="checkbox"/>	Model Group Type affects Floor's Identity
<input type="checkbox"/>	Model Group Instance affects Floor's Identity
<input type="checkbox"/>	All Floors are Unique in Model Group
Copy/Update Frames in Model Groups Copy/Update Frame in Model Groups Select Floors in Model Group Delete Frames in Model Groups	
Show Identical Floors Copy/Update Frames in Identical Floors Frame and Copy/Update in Identical Floors Update Frames in Identical Floors Update Frames by Floor Link in Identical Floors Delete Frames in Identical Floors	
Isolate Selected Floors Unhide Floors	
Create Assemblies for Identical Floors Disassemble Assemblies for Identical Floors	
Show Primary Assembly Show Primary & Secondary Assemblies	

Delete Frames in Identical Floors – deletes all framing elements in the selected floor and floors identical to it. Framing will be deleted in accordance with filtering rules.

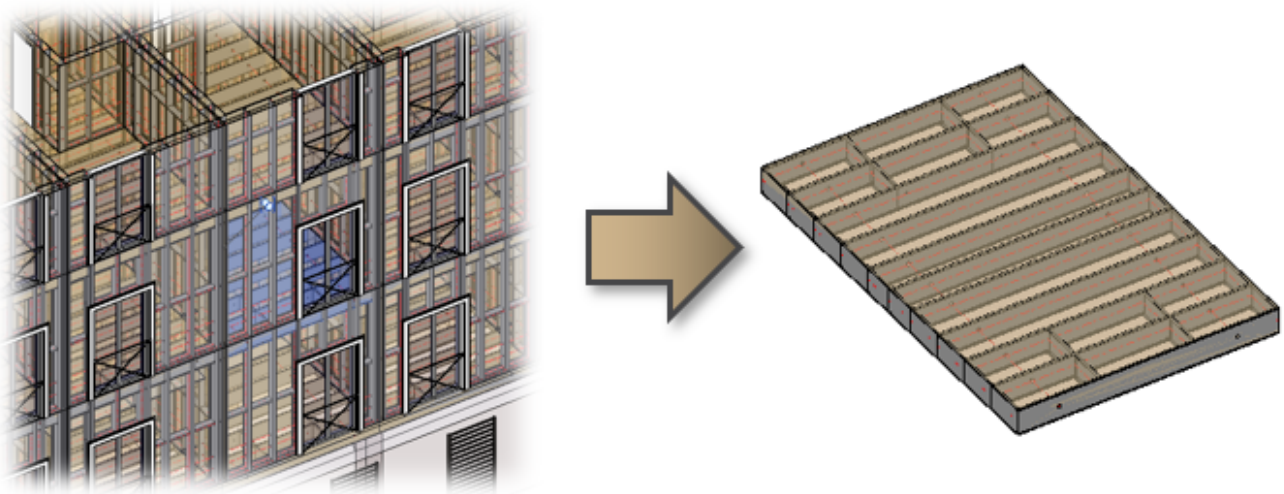


Isolate Selected Floors



Isolate Selected Floors – isolates selected floors, including frames in the active view. All other elements will be permanently hidden in the active view.

To restore hidden elements, use **Unhide Floors** function.



Create Assemblies for Identical Floors

Multi-Framing

☒ Model Group Type affects Floor's Identity
☐ Model Group Instance affects Floor's Identity
☐ All Floors are Unique in Model Group

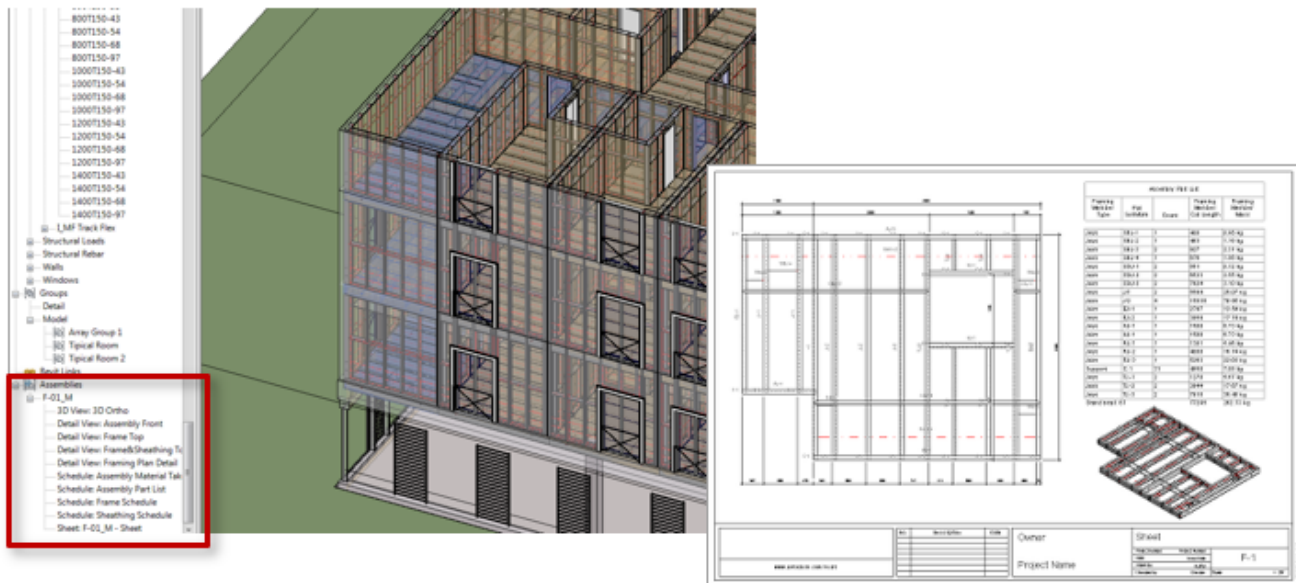
Copy/Update Frames in Model Groups
 Copy/Update Frame in Model Groups
 Select Floors in Model Group
 Delete Frames in Model Groups

Show Identical Floors
 Copy/Update Frames in Identical Floors
 Frame and Copy/Update in Identical Floors
 Update Frames in Identical Floors
 Update Frames by Floor Link in Identical Floors
 Delete Frames in Identical Floors


Isolate Selected Floors
 Unhide Floors
Create Assemblies for Identical Floors
 Disassemble Assemblies for Identical Floors

Show Primary Assembly
 Show Primary & Secondary Assemblies

Create Assemblies for Identical Floors – finds identical floors from the project and creates assembly, which contains user-predefined shop drawings, including schedules and sheets. One assembly is primary, which can be modified and updated; others are secondary.



Disassemble Assemblies for Identical Floors

 Multi-Framing ×

☒ Model Group Type affects Floor's Identity
☐ Model Group Instance affects Floor's Identity
☐ All Floors are Unique in Model Group

Copy/Update Frames in Model Groups
Copy/Update Frame in Model Groups
Select Floors in Model Group
Delete Frames in Model Groups

Show Identical Floors
Copy/Update Frames in Identical Floors
Frame and Copy/Update in Identical Floors
Update Frames in Identical Floors
Update Frames by Floor Link in Identical Floors
Delete Frames in Identical Floors


Isolate Selected Floors
Unhide Floors

Create Assemblies for Identical Floors
Disassemble Assemblies for Identical Floors

Show Primary Assembly
Show Primary & Secondary Assemblies

Disassemble Assemblies for Identical Floors – finds identical assemblies in the project and disassembles them.

Show Primary Assembly

 Multi-Framing ×

☒ Model Group Type affects Floor's Identity
☐ Model Group Instance affects Floor's Identity
☐ All Floors are Unique in Model Group

Copy/Update Frames in Model Groups
Copy/Update Frame in Model Groups
Select Floors in Model Group
Delete Frames in Model Groups

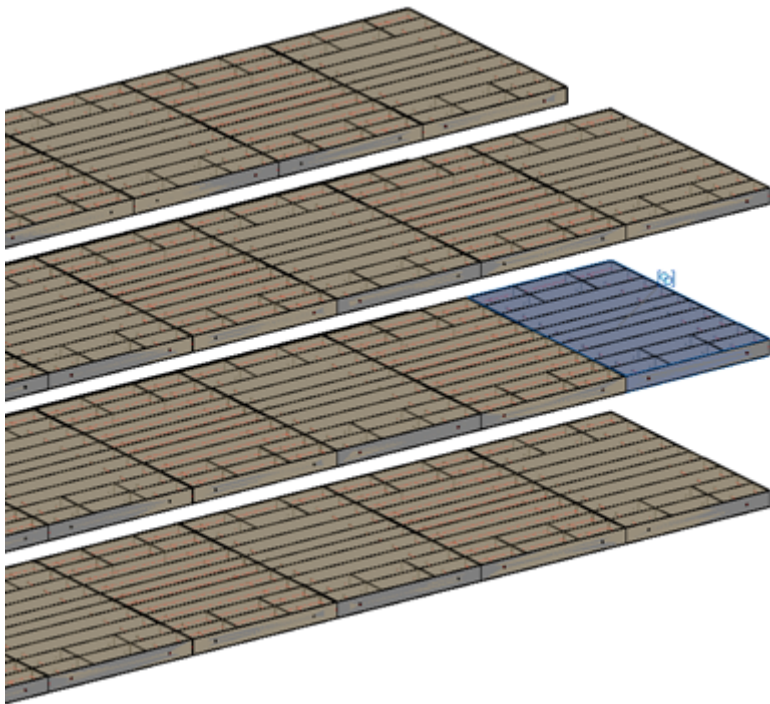
Show Identical Floors
Copy/Update Frames in Identical Floors
Frame and Copy/Update in Identical Floors
Update Frames in Identical Floors
Update Frames by Floor Link in Identical Floors
Delete Frames in Identical Floors

Isolate Selected Floors
Unhide Floors


Create Assemblies for Identical Floors
Disassemble Assemblies for Identical Floors
Show Primary Assembly

Show Primary & Secondary Assemblies

Show Primary Assembly – selects and shows primary assembly so that it can be modified/updated if needed.



Show Primary & Secondary Assemblies

 Multi-Framing

☒ Model Group Type affects Floor's Identity

☐ Model Group Instance affects Floor's Identity

☐ All Floors are Unique in Model Group

Copy/Update Frames in Model Groups

Copy/Update Frame in Model Groups

Select Floors in Model Group

Delete Frames in Model Groups

Show Identical Floors

Copy/Update Frames in Identical Floors

Frame and Copy/Update in Identical Floors

Update Frames in Identical Floors

Update Frames by Floor Link in Identical Floors

Delete Frames in Identical Floors

Isolate Selected Floors

Unhide Floors

Create Assemblies for Identical Floors

Disassemble Assemblies for Identical Floors

Show Primary Assembly

Show Primary & Secondary Assemblies

Show Primary & Secondary Assemblies – selects and shows primary and secondary assemblies so that they can be found and checked in a big project.

