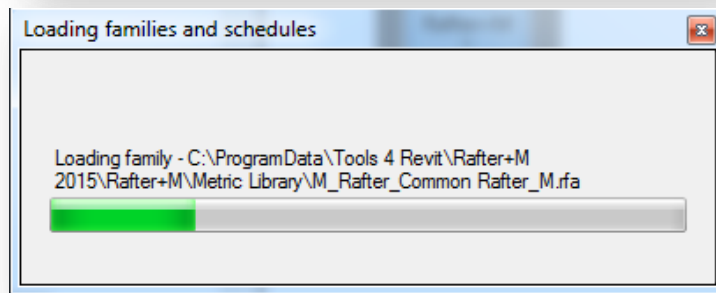
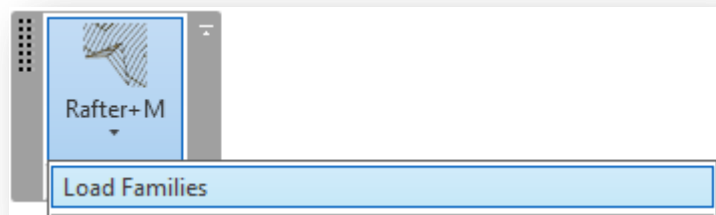
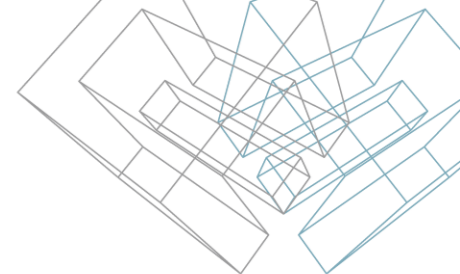


The background is a photograph of an empty parking garage with concrete pillars and beams. A large, abstract 3D graphic is overlaid on the right side, consisting of a white wireframe cube and a solid blue cube, both tilted at an angle. The floor is a solid blue color.

METAL FRAMING RAFTER+

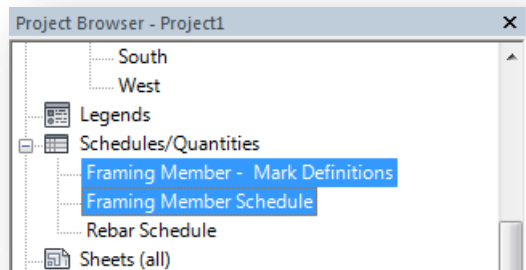
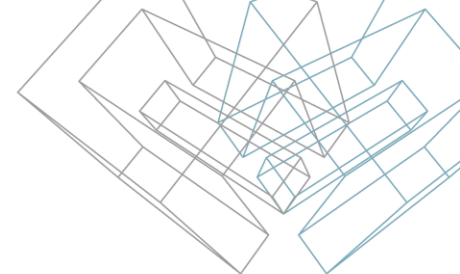
Load Families

Load Rafter Families



- The command **Load Families** loads structural framing families and sample schedule tables for framing elements into the project.
- To avoid this time-consuming operation, the user can save file as a template after loading families.

Load Families – Schedules

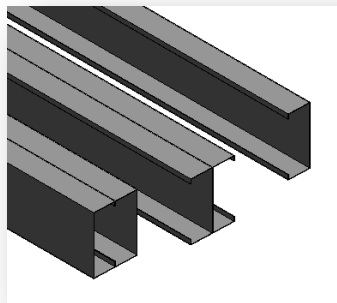
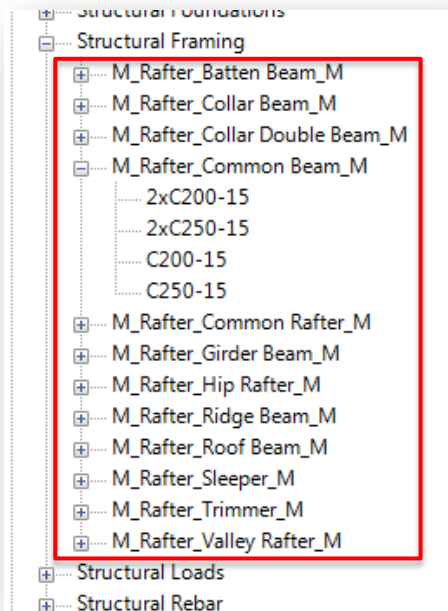
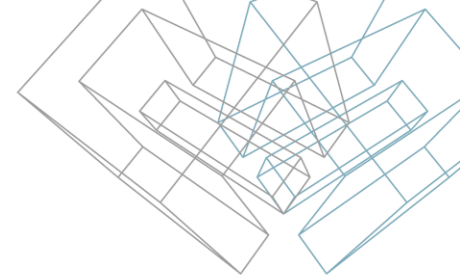


- The command **Load families** loads sample schedules to the project.
- These schedules include a number of predefined shared parameters which are assigned to framing members
- The user can use schedules to search and filter different framing members and elements.
- The user can edit properties of schedules if necessary and use them in the project.

A	B	C	D	E	F
Framing Member	Framing Member	FM SortMark	Cut Length	Count	Volume
Collar Beam					
Collar Beam	Beam	SJ1	15267	3	0.14 m³
Collar Beam: 3			15267		0.14 m³
Common Rafter					
Common Rafter	Rafter		321014	115	3.21 m³
Common Rafter: 115			321014		3.21 m³
Double Collar Beam					
Double Collar Beam	Beam		31177	9	0.56 m³
Double Collar Beam	Rafter		73634	14	0.96 m³
Double Collar Beam: 23			104811		1.52 m³
Ridge Board					
Ridge Board	Rafter	HR11	7035	1	0.16 m³
Ridge Board: 1			7035		0.16 m³
Grand total: 142			448127		5.03 m³

A	B	C	D
Framing Member	Framing Member Type	Framing Member Description	Framing Member Mark
Collar Beam	Beam	Stub Joist	SJ
Common Rafter	Rafter	Rafter	R
Double Collar Beam	Beam	Collar Beam	CB
Double Collar Beam	Rafter	Hip Rafter	HR
Double Collar Beam	Beam	Stub Joist	SJ
Ridge Board	Rafter	Hip Rafter	HR

The Command Load Families Loads:



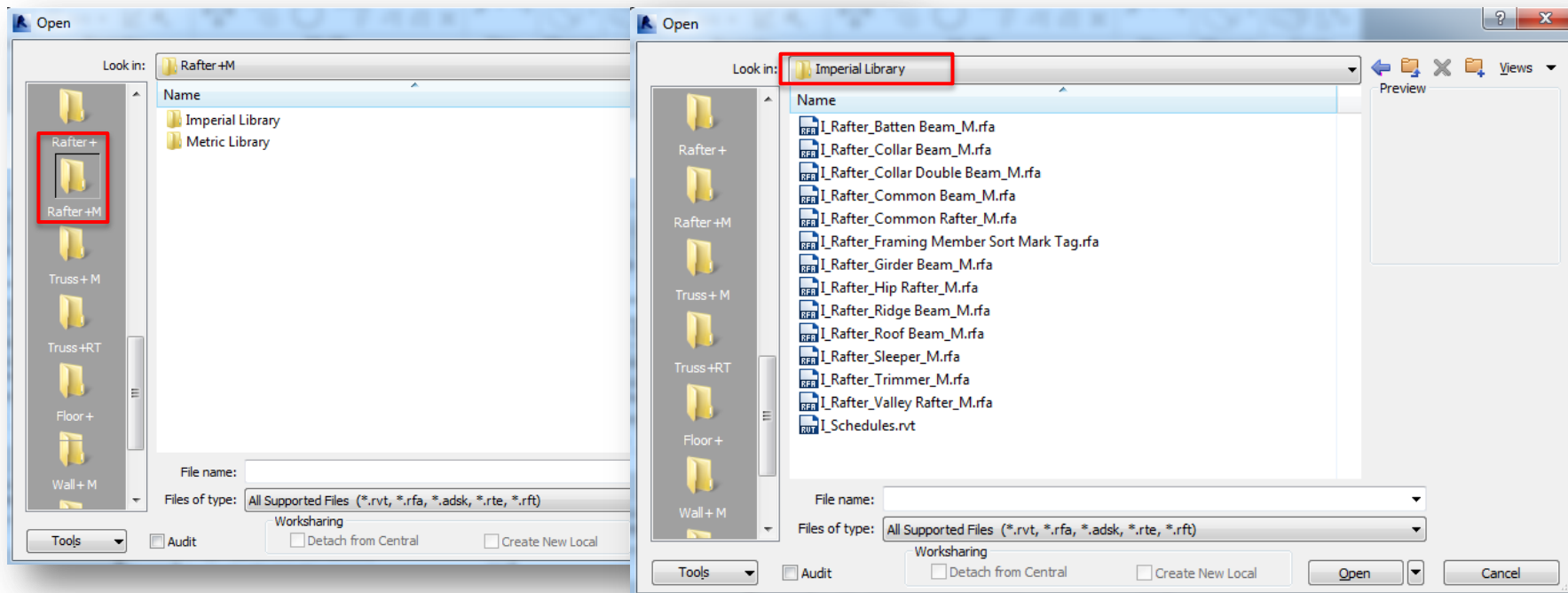
Type Parameters	
Parameter	Value
Structural	
tf	0.15 cm
bf	7.60 cm
Right Profile Offset	76.0
Lip	1.60 cm
Left Profile Offset	-76.0
Double Profile	<input checked="" type="checkbox"/>
Double Cut	<input type="checkbox"/>
Double Boxed Profiles	<input checked="" type="checkbox"/>

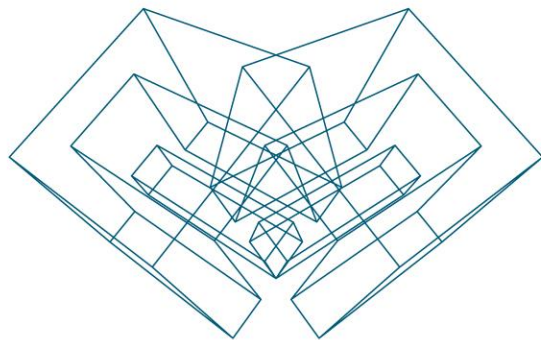
- Structural Framing families of roof elements;
- Single profile families and double profiles families.
- You can modify double profiles to make it boxed or open configuration using type options.

Note: Family name begins with “I_Rafter_” for imperial units and with “M_Rafter_” for metric units.

Load Additional Rafter Types

- To load additional rafter types, use **Load Family** command from Revit menu.





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