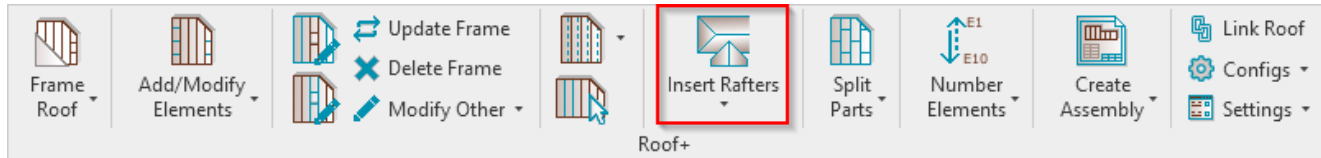


INSERT RAFTERS

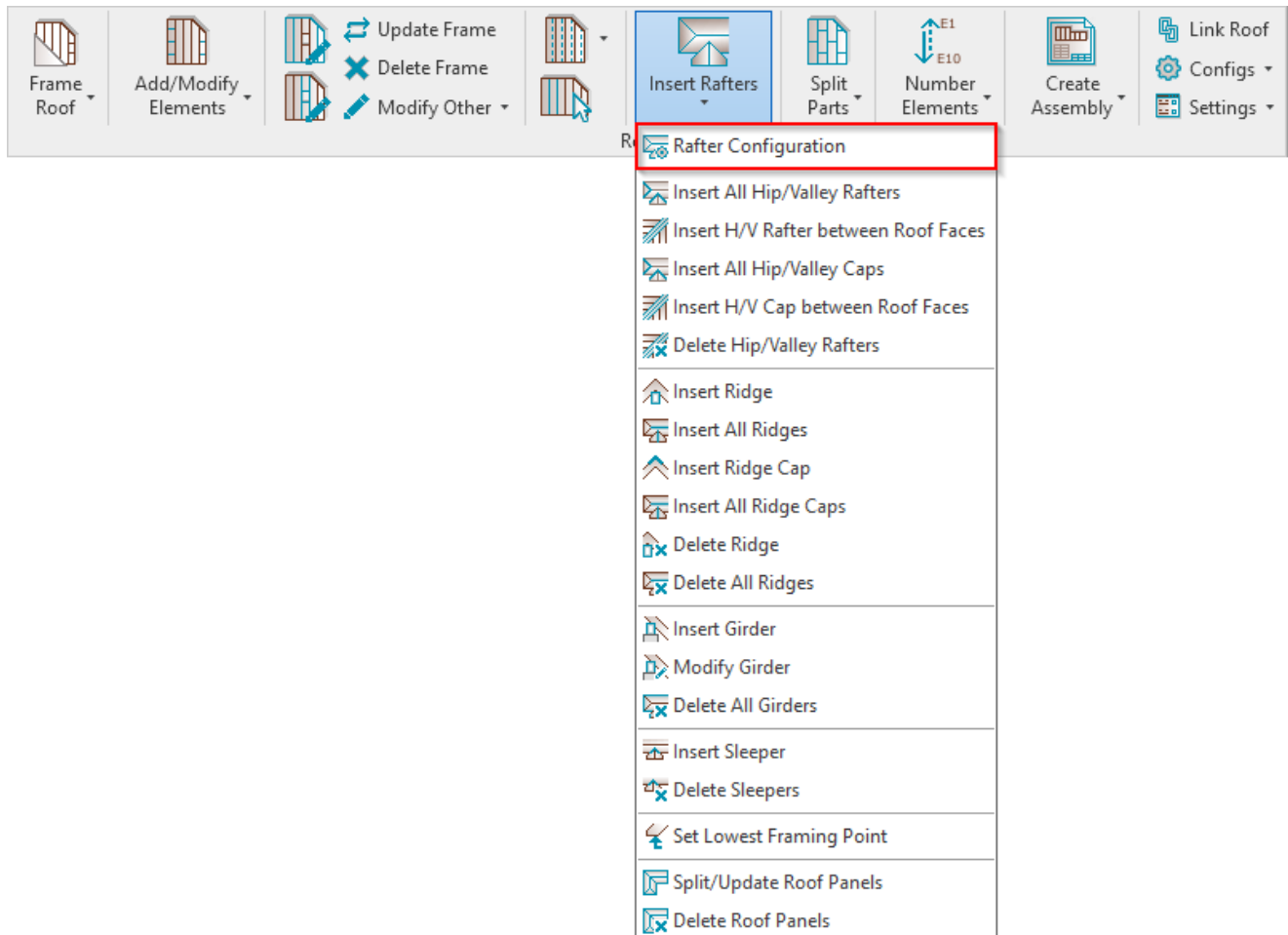
Modified on: Sat, 14 Sep, 2019 at 9:28 AM

Insert Rafters



Insert Rafters - features for convenient and automatic placement of hip/valley rafters, ridges, girders and sleepers.

Rafters Configuration



Rafters Configuration

Configuration Type: **Frame**

Configuration Name: **I-Rafters with Standard Ridge** Save Duplicate... Rename... Delete

Rafters Configuration **Marks**

Hip Type

Type: **M_Roof_Frame Hip Rafter: LMBR 48x300**

Width (b): **48.00 mm**

Depth (h,d): **300.00 mm**

Double Hip Rafter ☐

Valley Type

Type: **M_Roof_Frame Valley Rafter: LMBR 48x300**

Width (b): **48.00 mm**

Depth (h,d): **300.00 mm**

Double Valley Rafter ☐

Ridge Type

Type: **M_Roof_Frame Ridge Joist: LMBR 48X300**

Width (b): **48.00 mm**

Depth (h,d): **300.00 mm**

OK Cancel

Rafter Configuration – defines hip, valley, ridge, girder, and sleeper settings. These settings can be saved under different names and for different roofs.

Rafters Configuration

Configuration Type: **Frame** (dropdown menu open showing **Frame** and **Roofing**)

Configuration Name: **I-Rafters with Standard Ridge** Save Duplicate... Rename... Delete

Rafters Configuration **Marks**

Hip Type

Type: **M_Roof_Frame Hip Rafter: LMBR 48x300**

Width (b): **48.00 mm**

Depth (h,d): **300.00 mm**

Double Hip Rafter ☐

Configuration Type – all settings are grouped separately for the main frame and for the roofing.

Type – select the family and type that will be used for hip, valley, ridge, girders, and sleepers. Sample families are included with **Roof+** and may be loaded via **Roof+ → Settings → Load Families**.

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

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

Rafters Configuration

Configuration Type: Frame

Configuration Name: I-Rafters with Standard Ridge Save Duplicate... Rename... Delete

Rafters Configuration **Marks**

Element	Framing Member	Framing Member Description	Framing Member Type	FM Wood Grade	Framing Member Mark	Framing Layer	Framing
Hip	Hip Rafter	Hip Rafter	Rafter		HR	Frame	Roof
Valley	Valley Rafter	Valley Rafter	Rafter		VR	Frame	Roof
Ridge	Rigde	Ridge	Ridge		RG	Frame	Roof
Girder	Girder	Girder	Girder		GR	Frame	Roof
Sleeper	Sleeper	Sleeper	Sleeper		SL	Frame	Roof

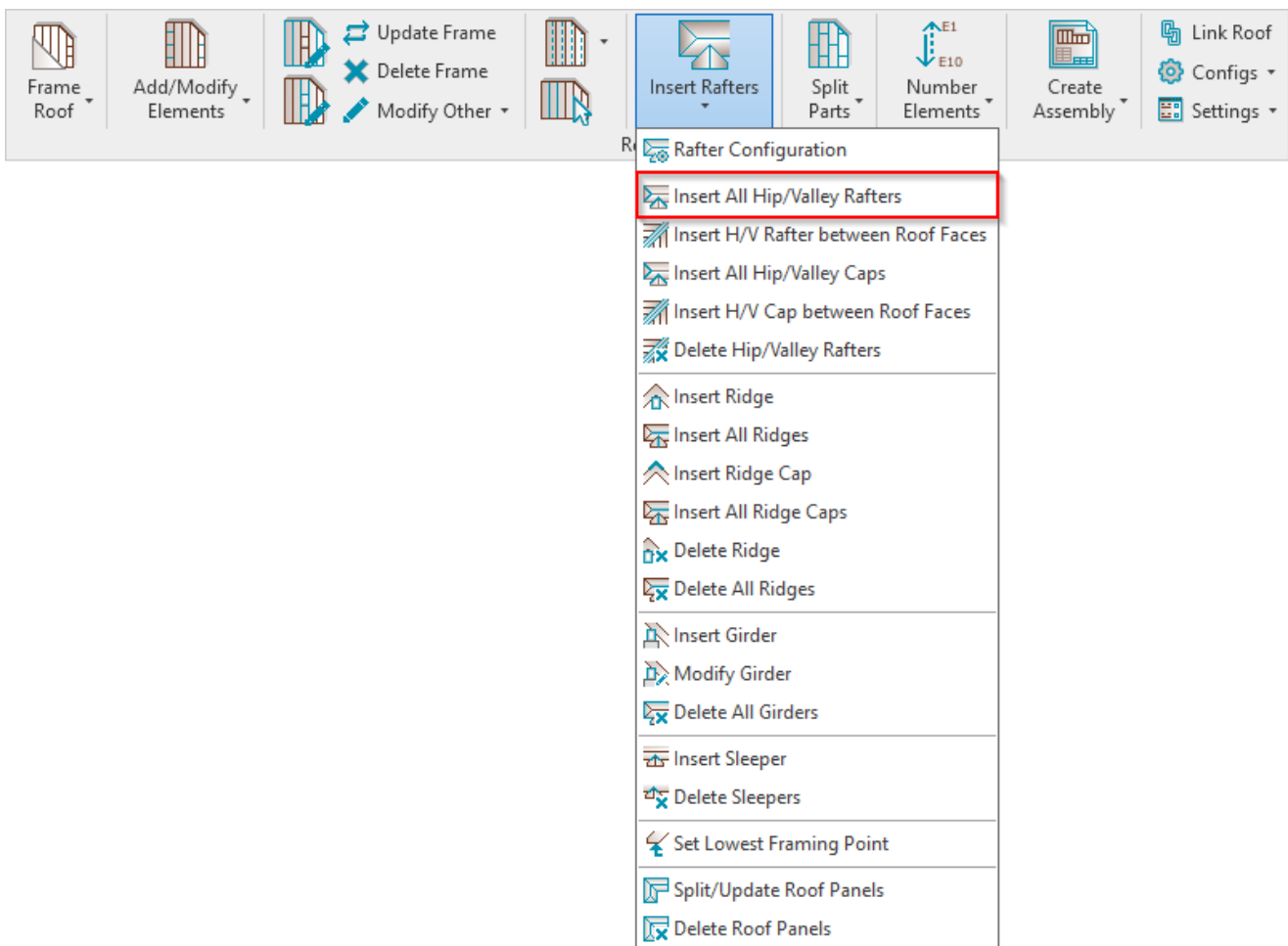
OK Cancel

Marks – naming convention of framing members. You can set individual mark settings for each part of the frame for easy preparation of shop drawings. The column names are shared parameters that will be used later in schedules and tags.

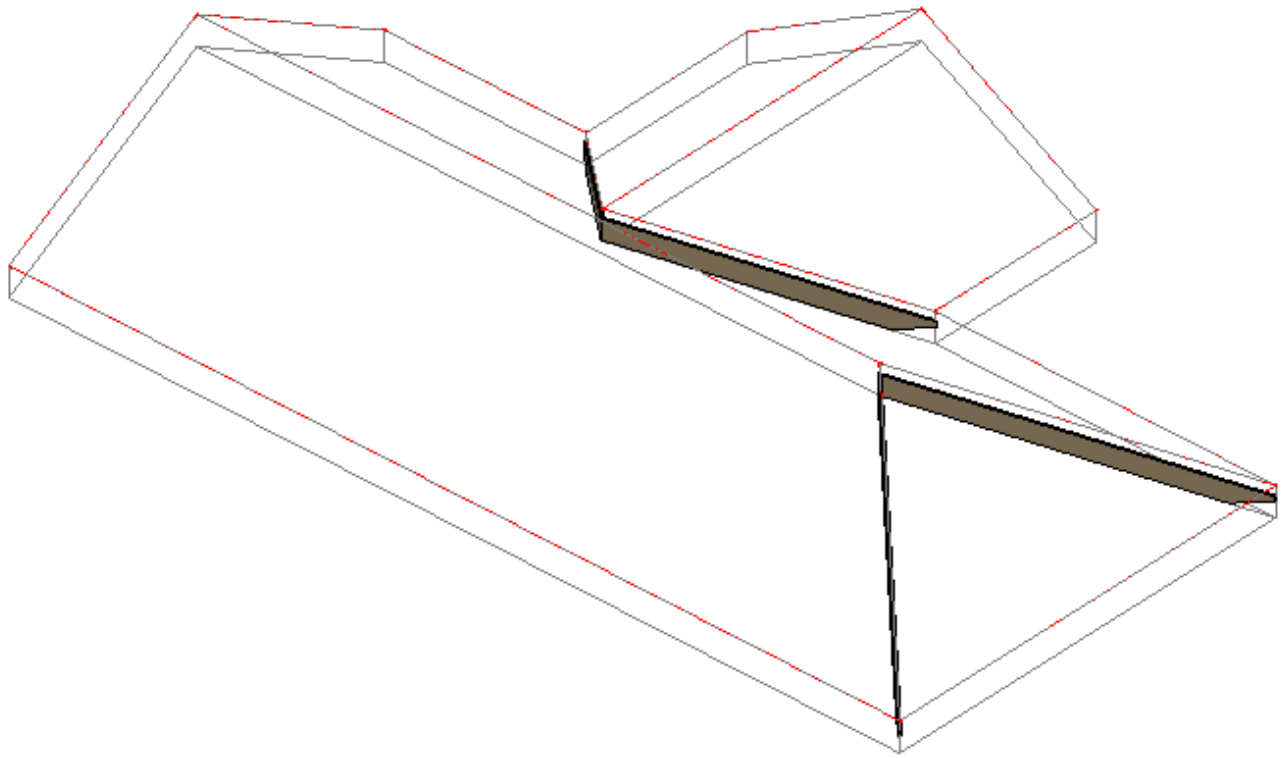
*Pay special attention to **Framing Member Mark** – the symbol used for marking framing elements.*

These values will be automatically added to the frame after adding rafters.

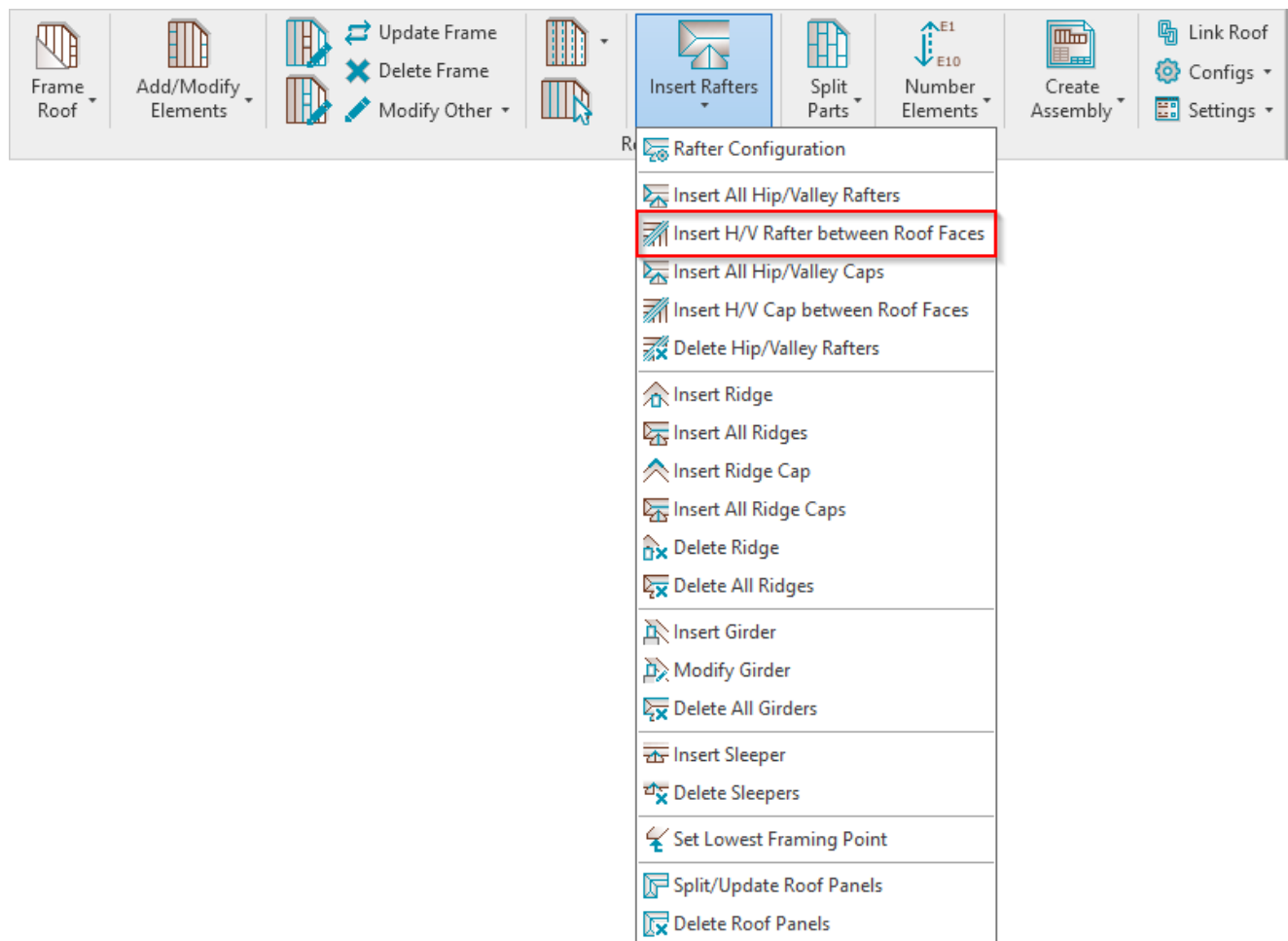
Insert all Hip/Valley Rafters



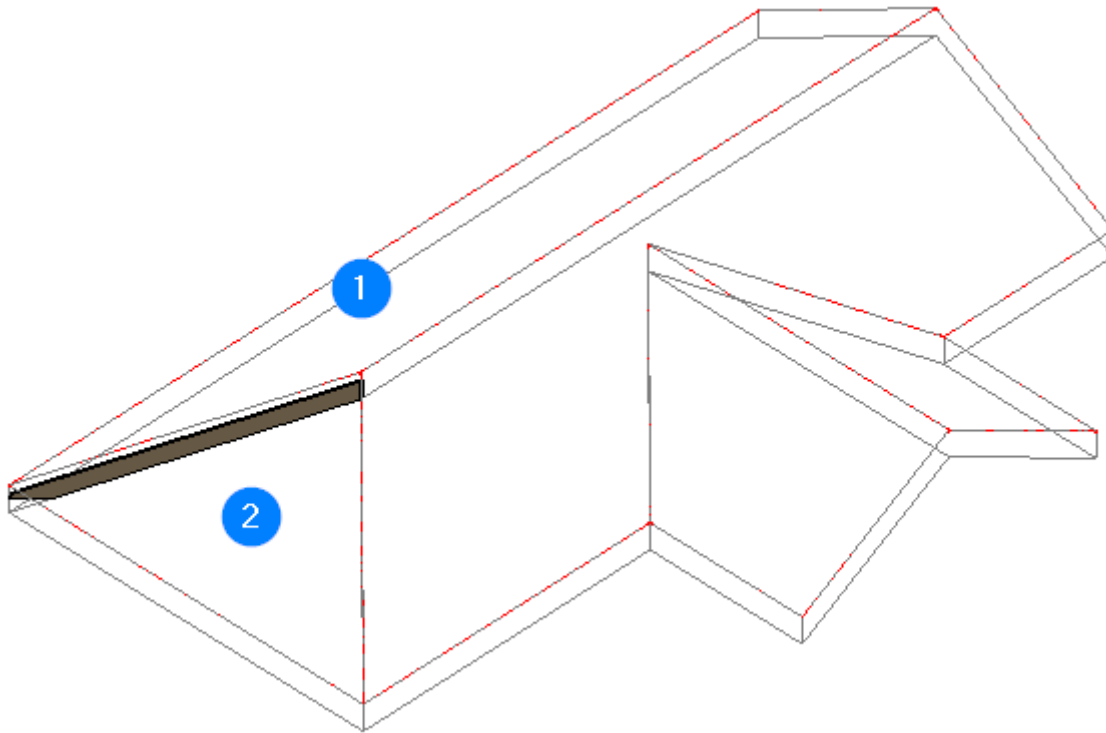
Insert all Hip/Valley Rafters – inserts hip and valley rafters in selected roof. Before inserting, predefine hip and valley rafter types in **Rafter Configuration**.



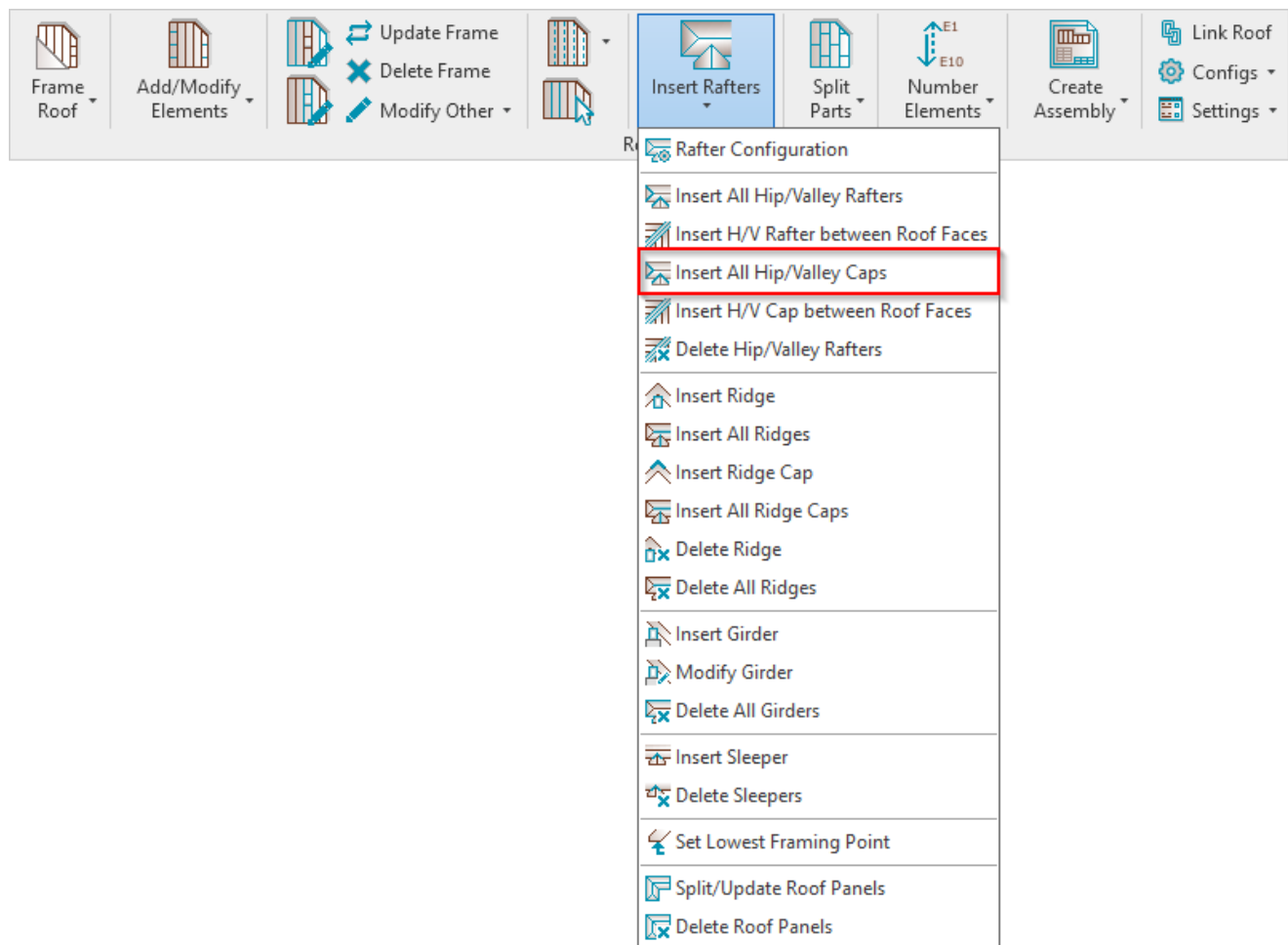
Insert H/V Rafter between Roof Faces



Insert H/V Rafter between Roof Faces – inserts hip or valley rafters between two selected roof faces. Before inserting, predefine hip and valley rafter types in **Rafter Configuration**.

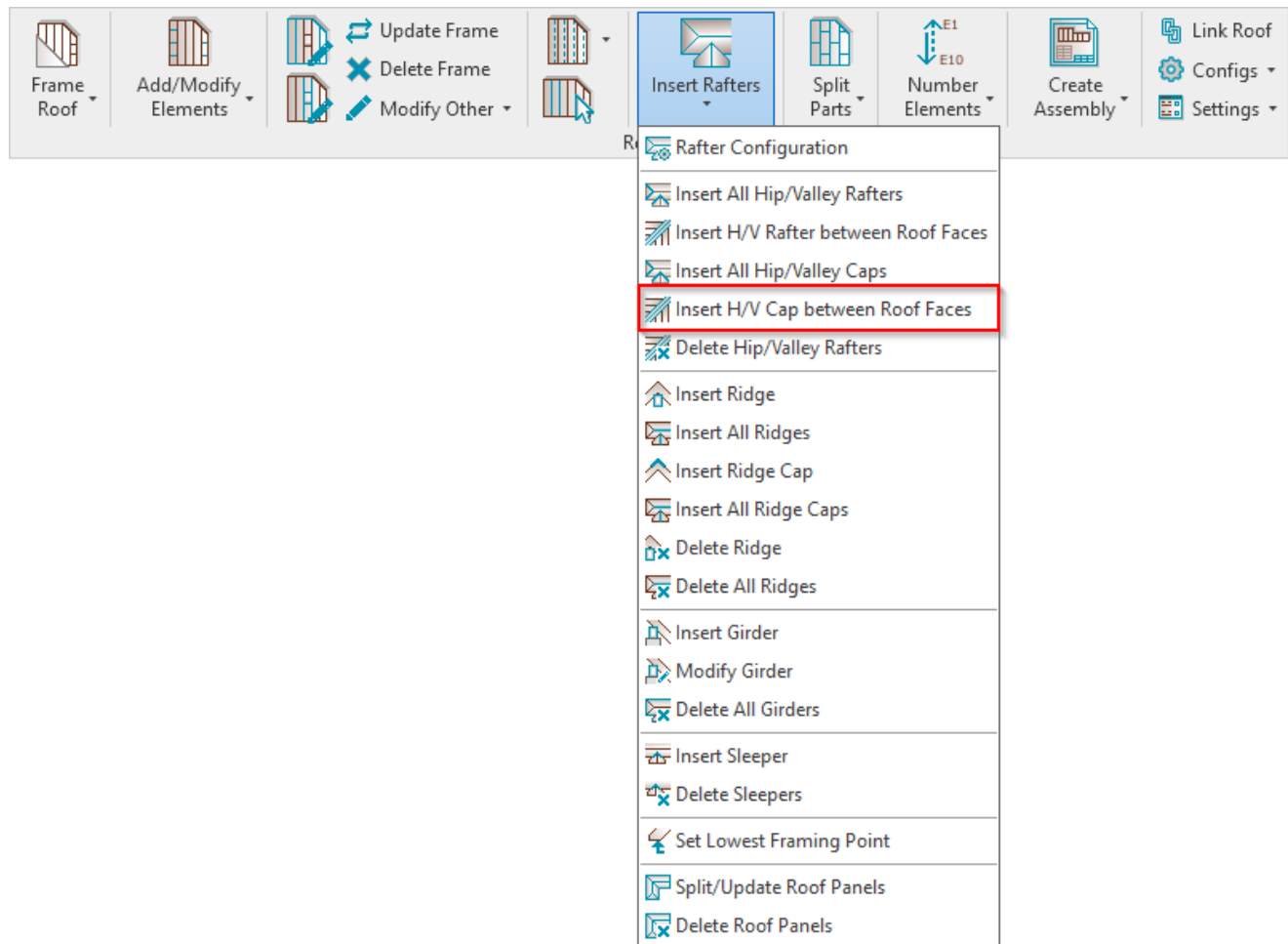


Insert all Hip/Valley Caps



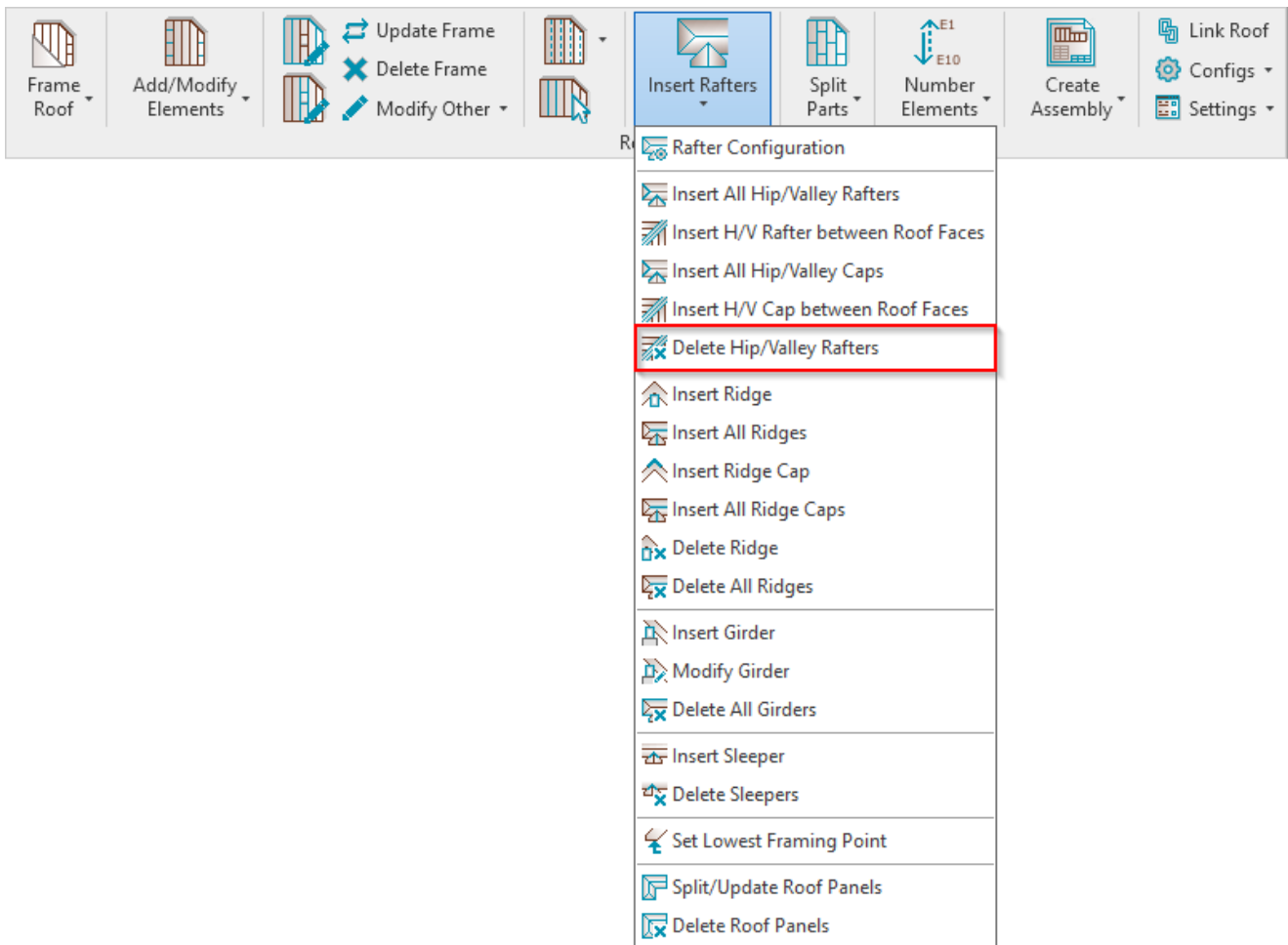
Insert all Hip/Valley Caps – inserts hip and valley caps on selected roof. Before inserting, predefine hip and valley cap types in **Rafter Configuration**.

Insert H/V Cap between Roof Faces



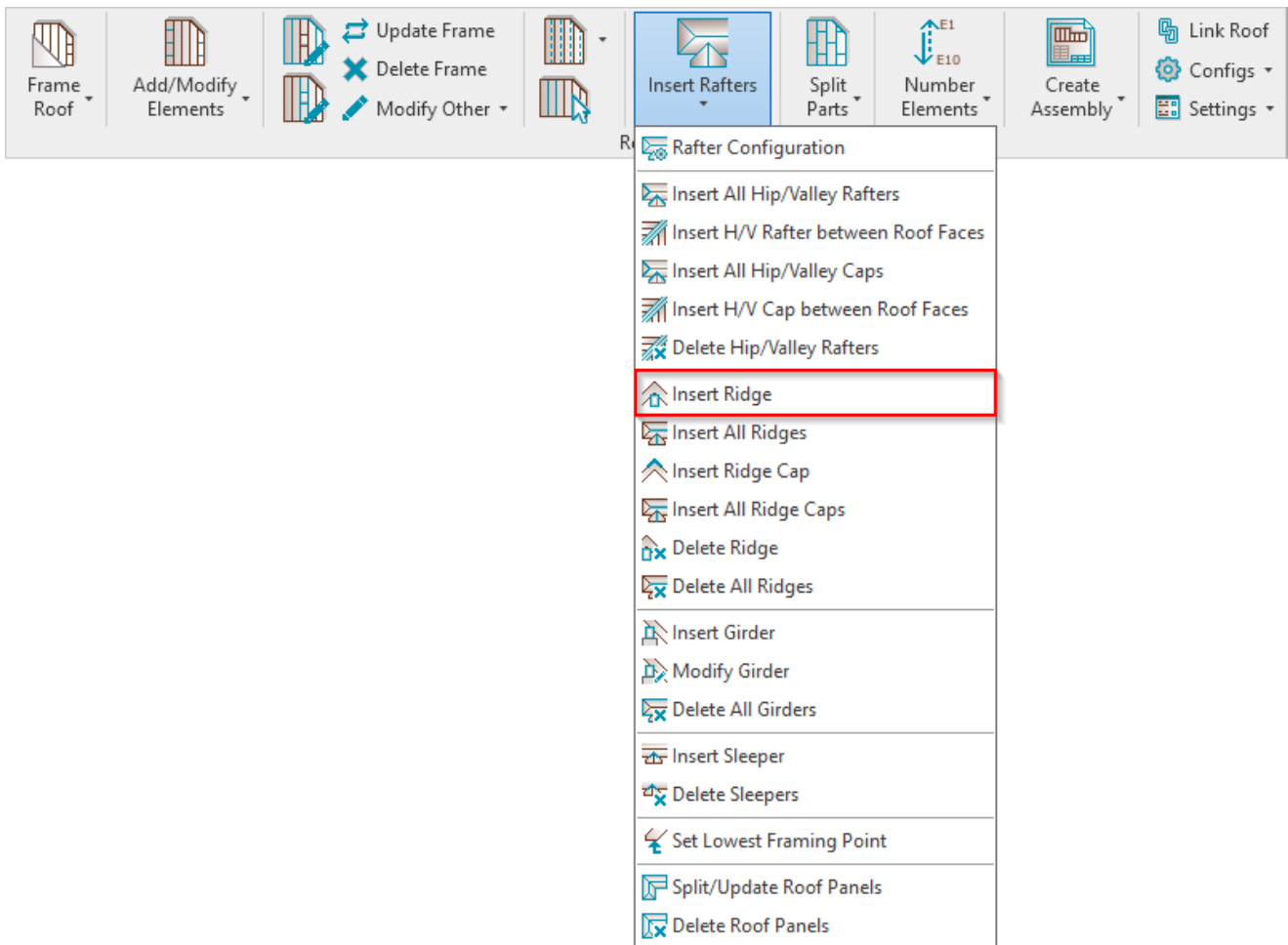
Insert H/V Cap between Roof Faces – inserts hip or valley caps between two selected roof faces. Before inserting, predefine hip and valley cap types in **Rafter Configuration**.

Delete Hip/Valley Rafters

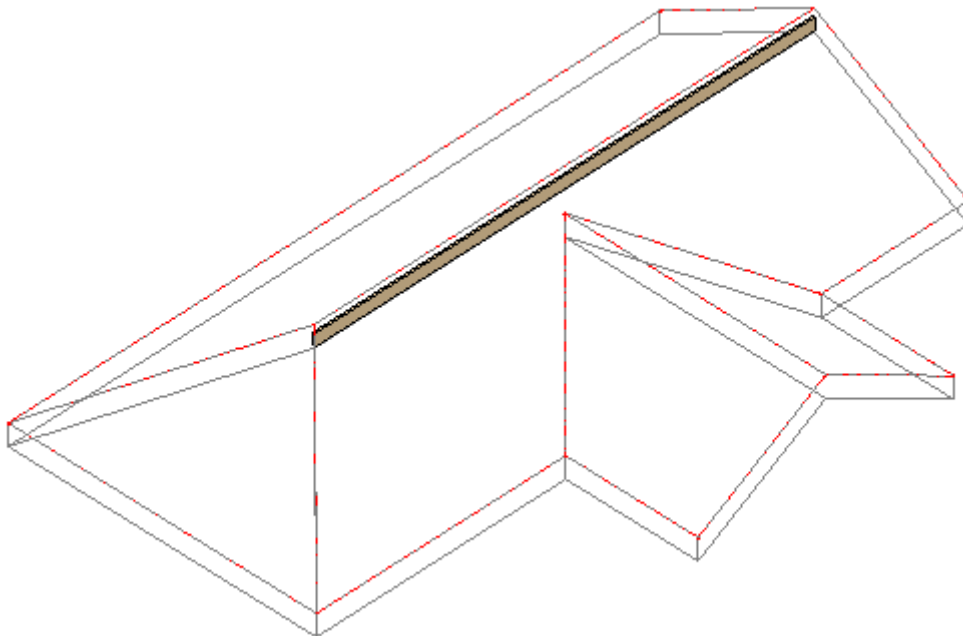


Delete Hip/Valley Rafters – deletes all hip and valley rafters and caps from roof.

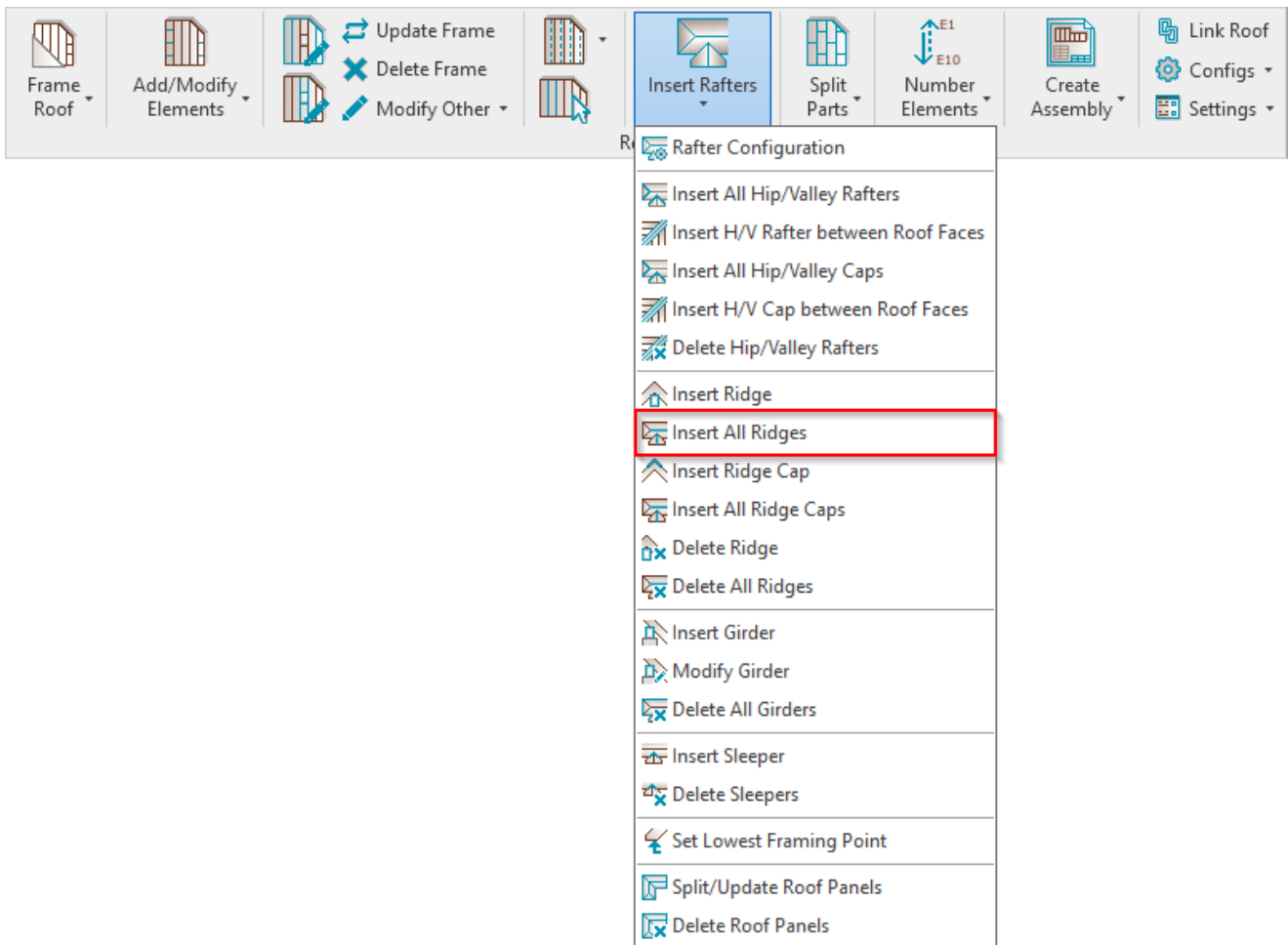
Insert Ridge



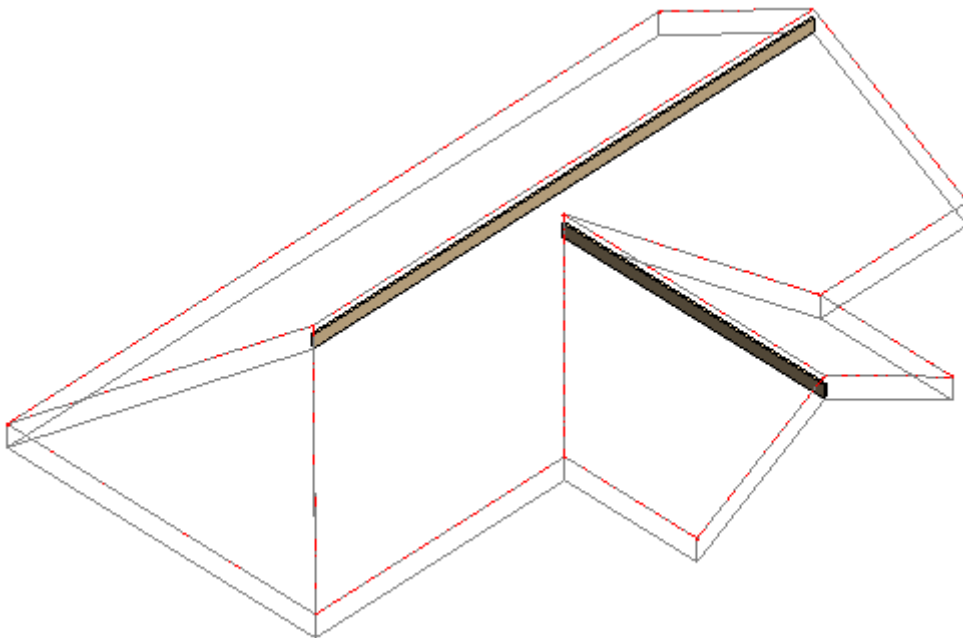
Insert Ridge – inserts ridge beam in selected roof panel. Before inserting, predefine ridge type in **Rafter Configuration**.



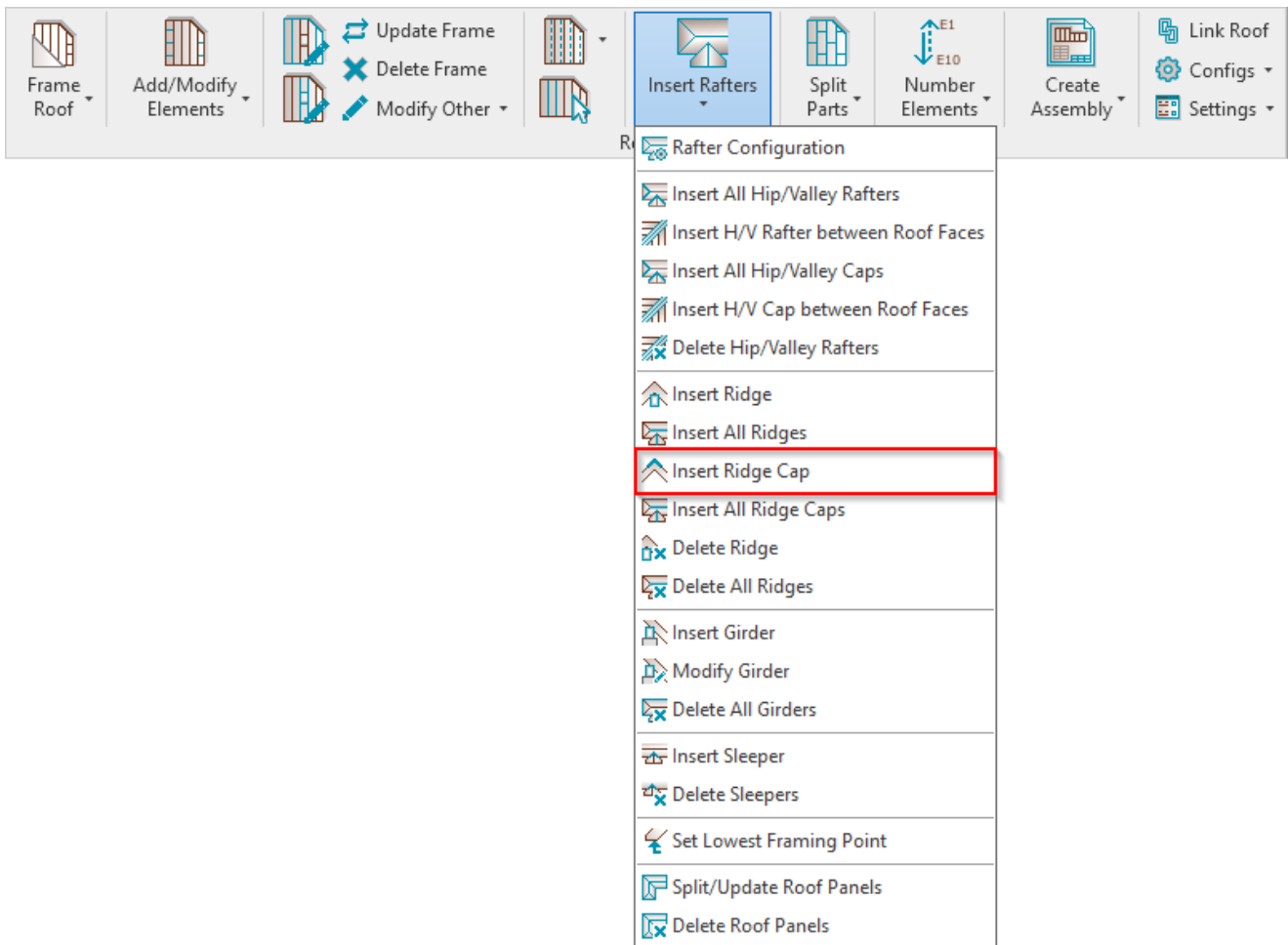
Insert all Ridges



Insert all Ridges – inserts all ridges in selected roof. Before inserting, predefine ridge type in **Rafter Configuration**.

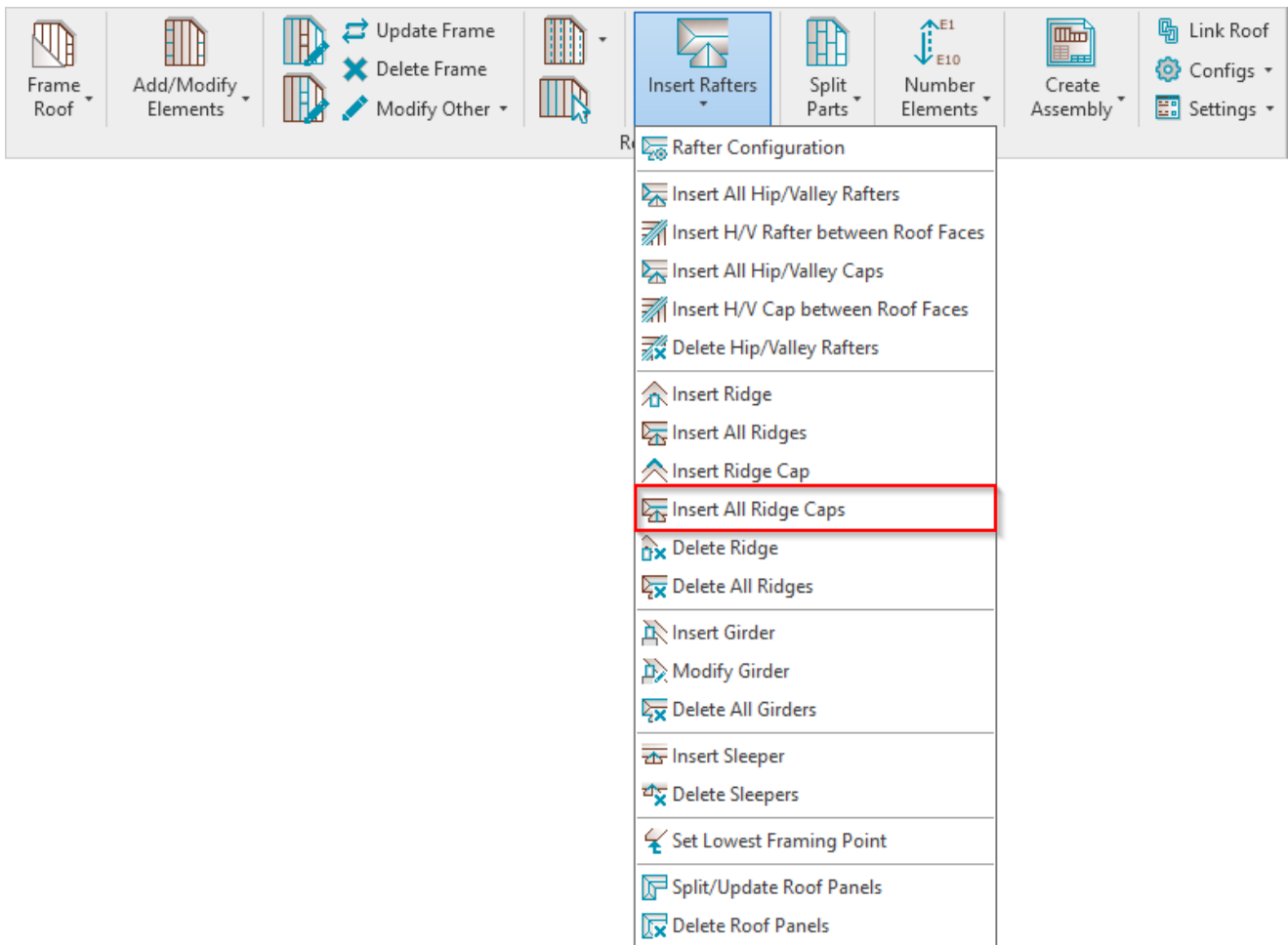


Insert Ridge Cap



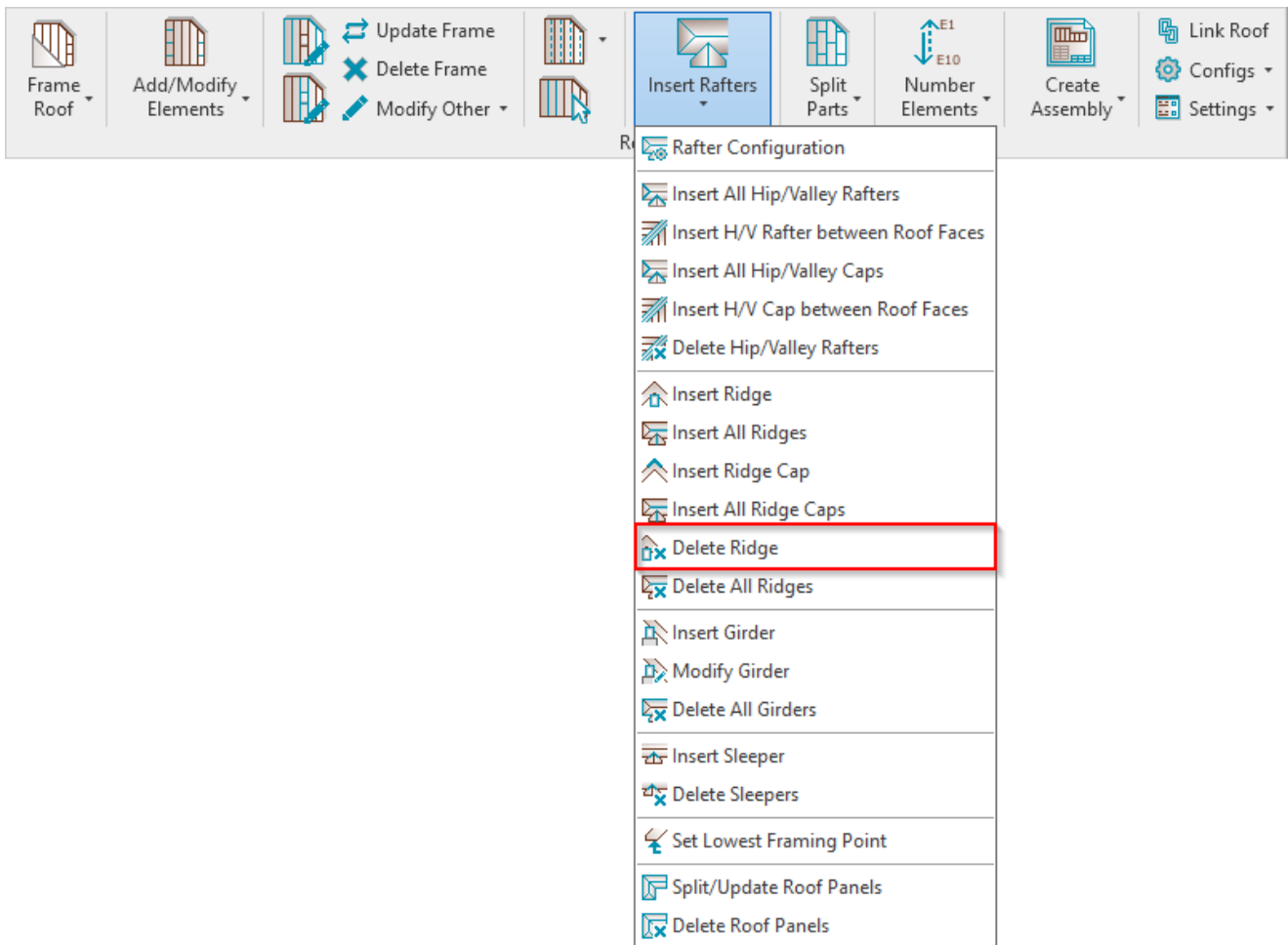
Insert Ridge Cap – inserts ridge cap on selected roof panel. Before inserting, predefine ridge cap type in **Rafter Configuration**.

Insert all Ridge Caps



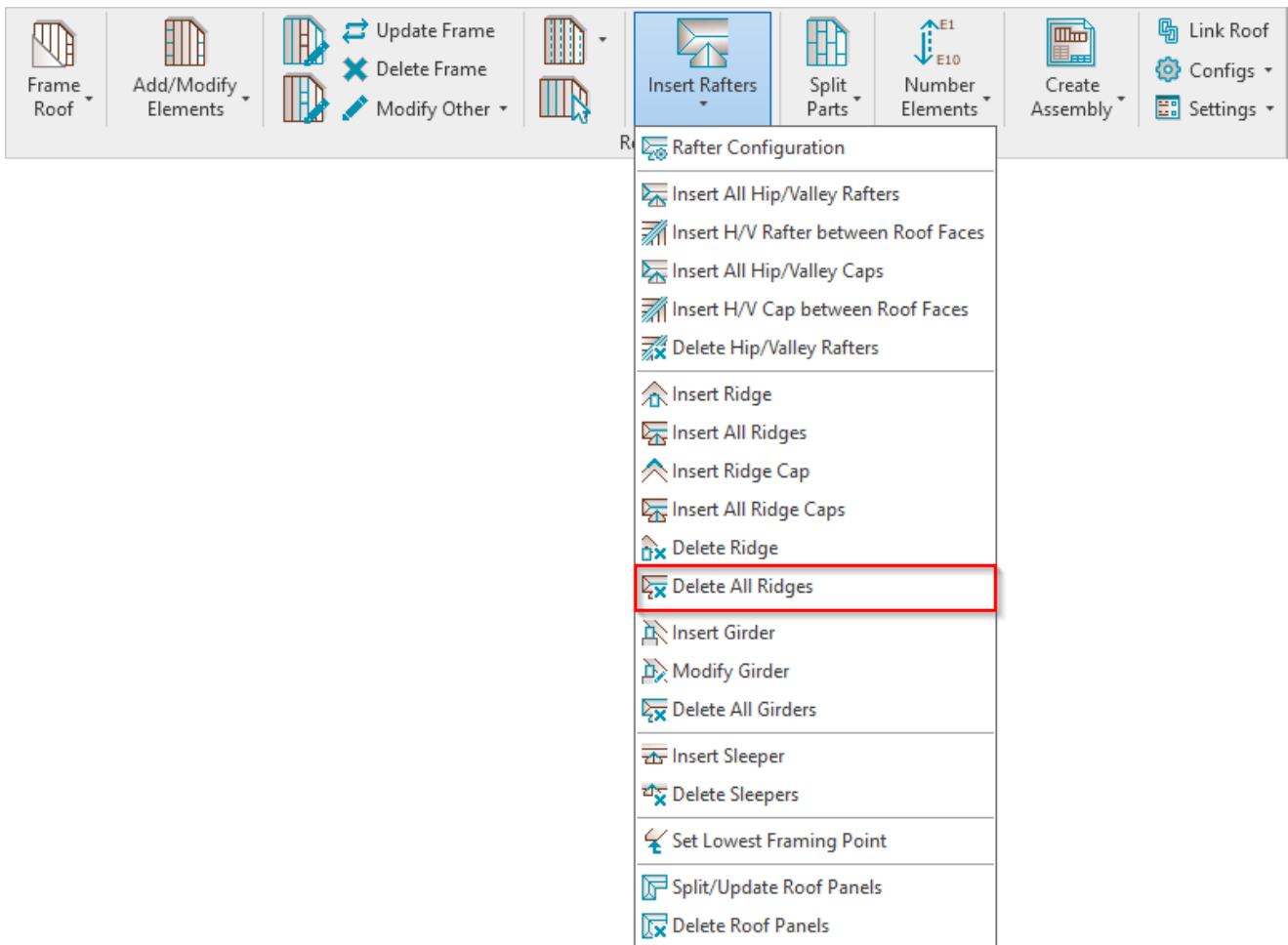
Insert all Ridge Caps – inserts all ridge caps on selected roof. Before inserting, predefine ridge cap type in **Rafter Configuration**.

Delete Ridge



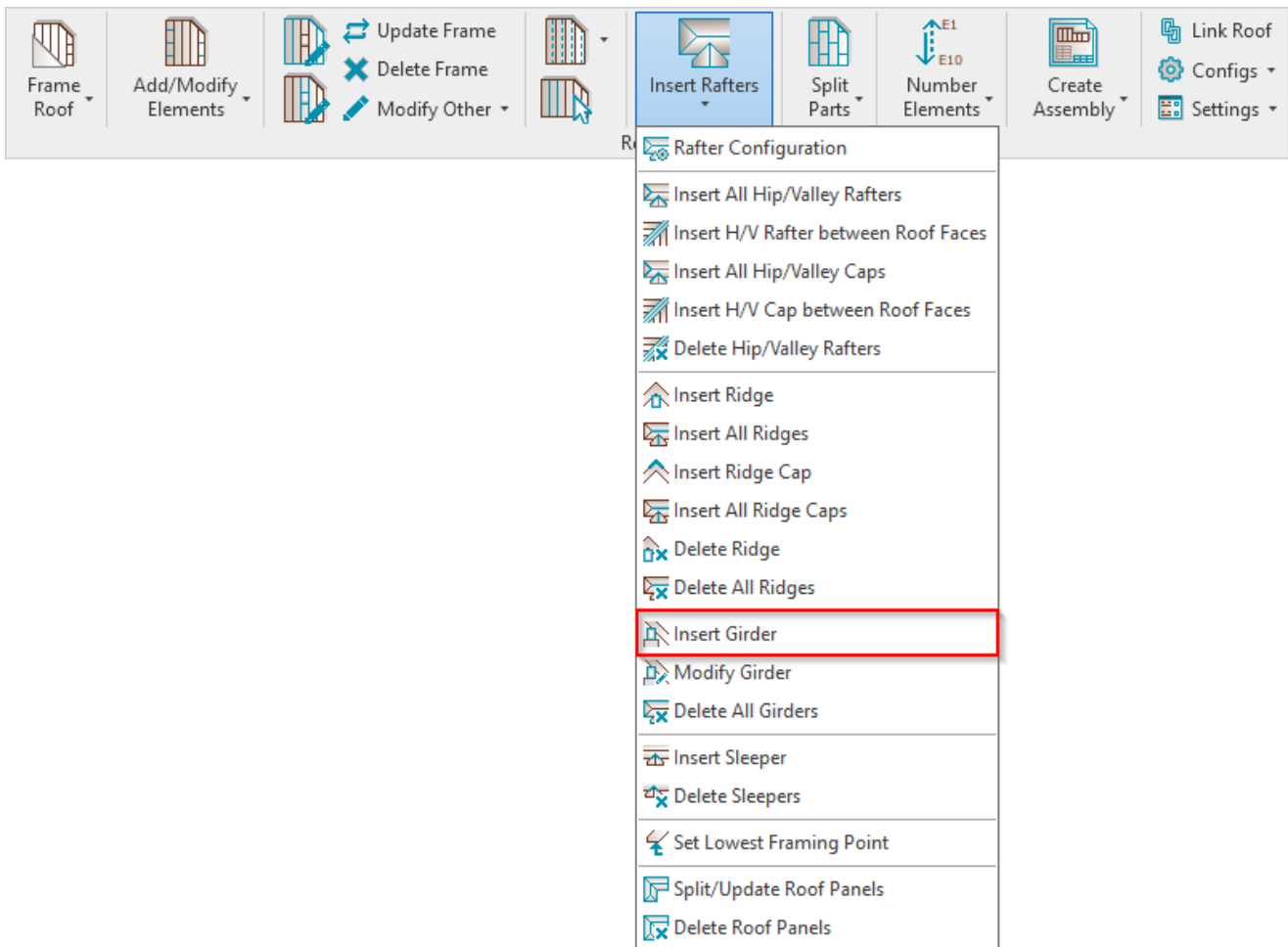
Delete Ridge – deletes selected ridge beam and ridge cap.

Delete all Ridges



Delete all Ridges – deletes all ridge beams and ridge caps from roof.

Insert Girder



Insert Girder – inserts girder beam between two selected hip, valley, or common rafters.

Insert Girder

Vertical distance from:

- ☒ ridge 0.00 mm (Ridge elevation: 5763.27 mm)
- ☐ level 0.00 mm Level 1 (0.00 mm)

Horizontal distance from:

- ☐ ridge 0.00 mm
- ☐ None 0.00 mm Select wall or beam

Girder Type

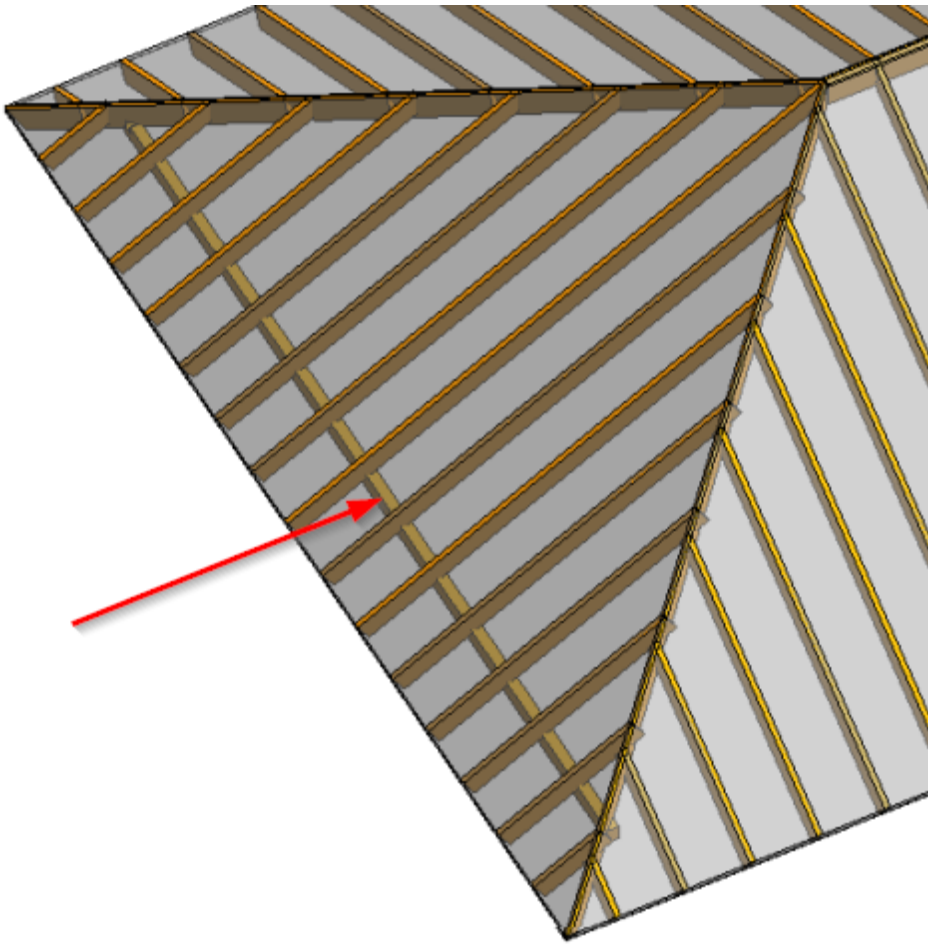
Type: M_Roof_Frame Girder Joist: LMBR 90x300

Width (b): 90.00 mm

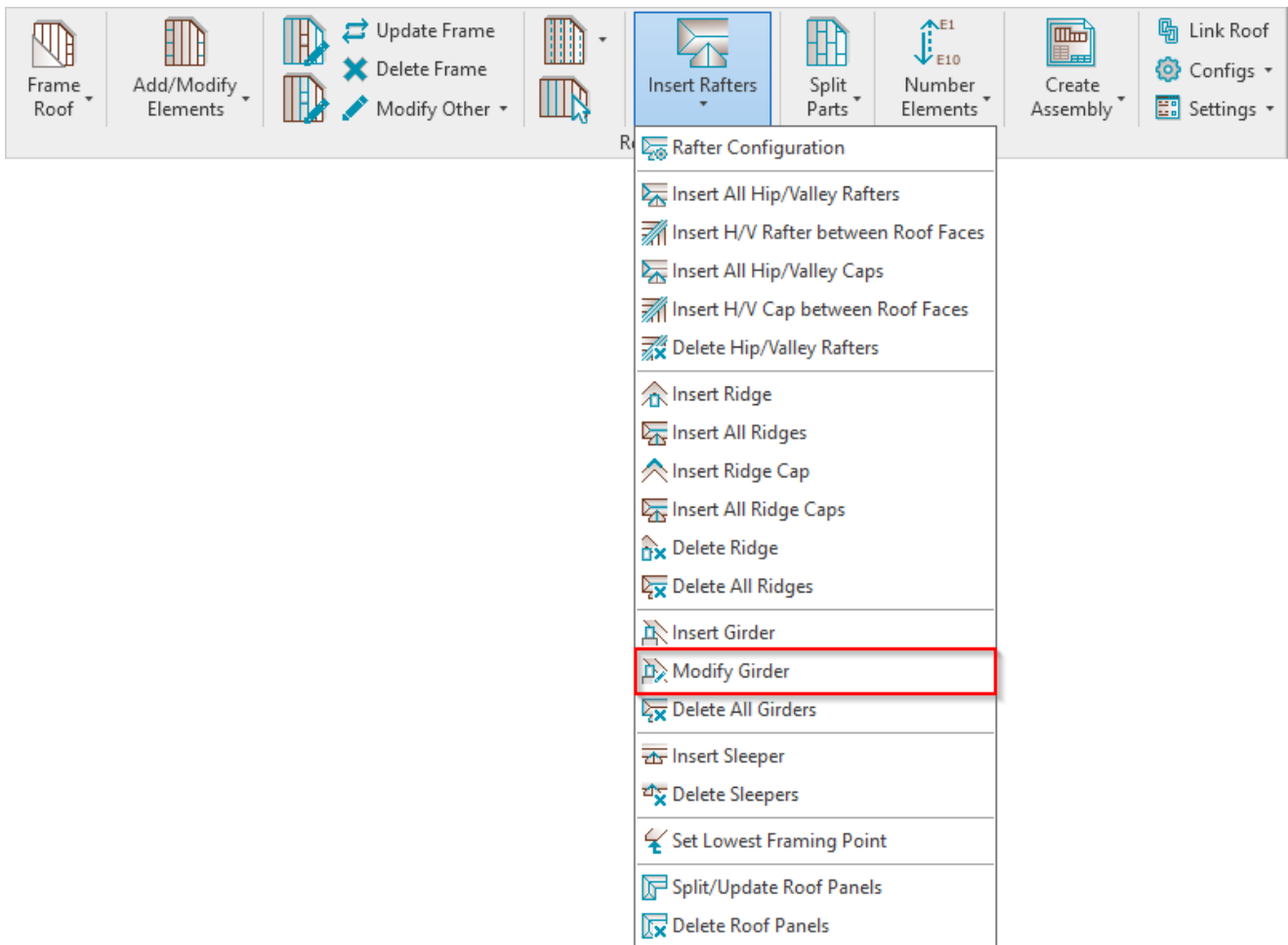
Depth (h,d): 300.00 mm

OK Cancel

Result:

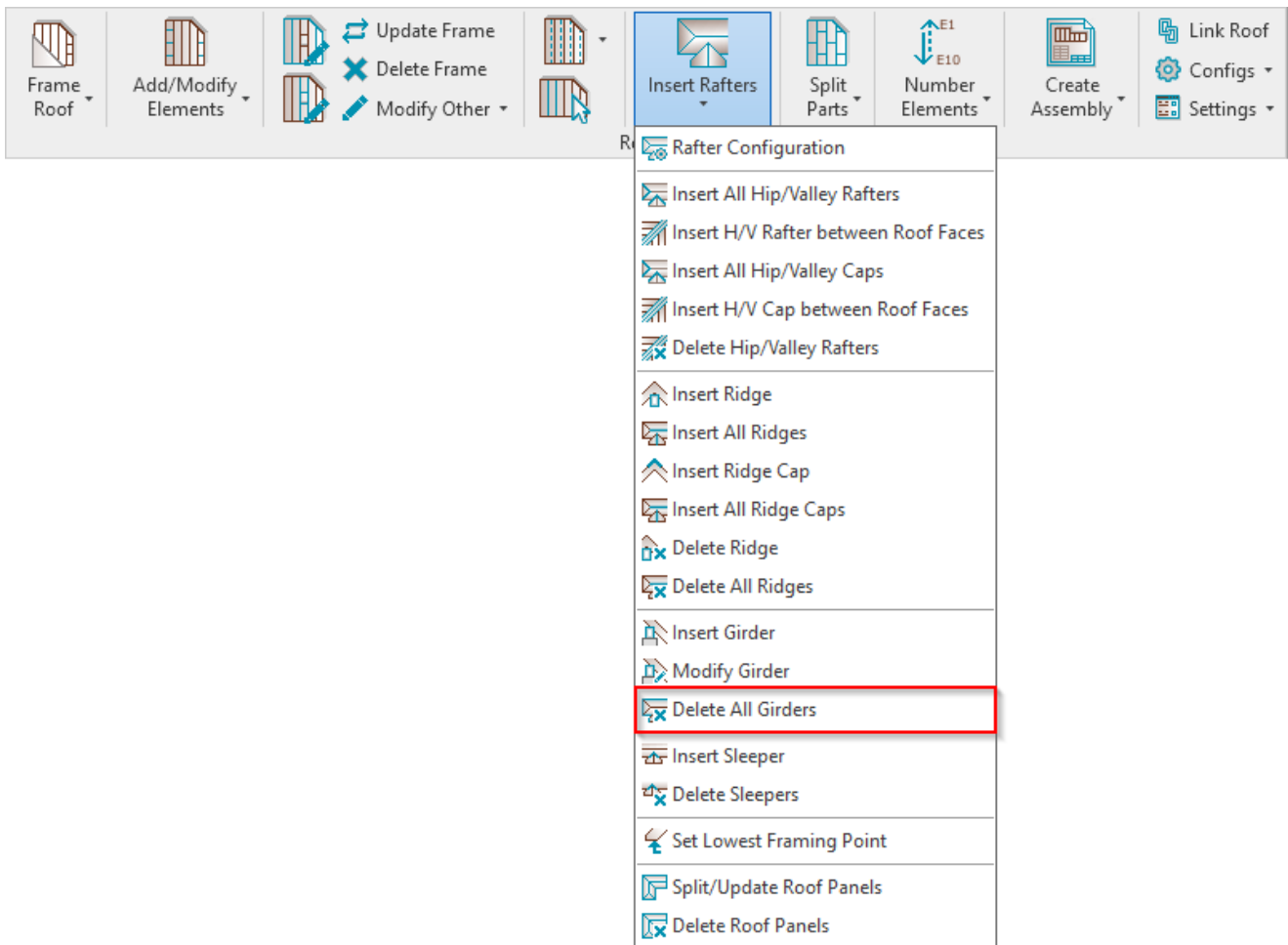


Modify Girder



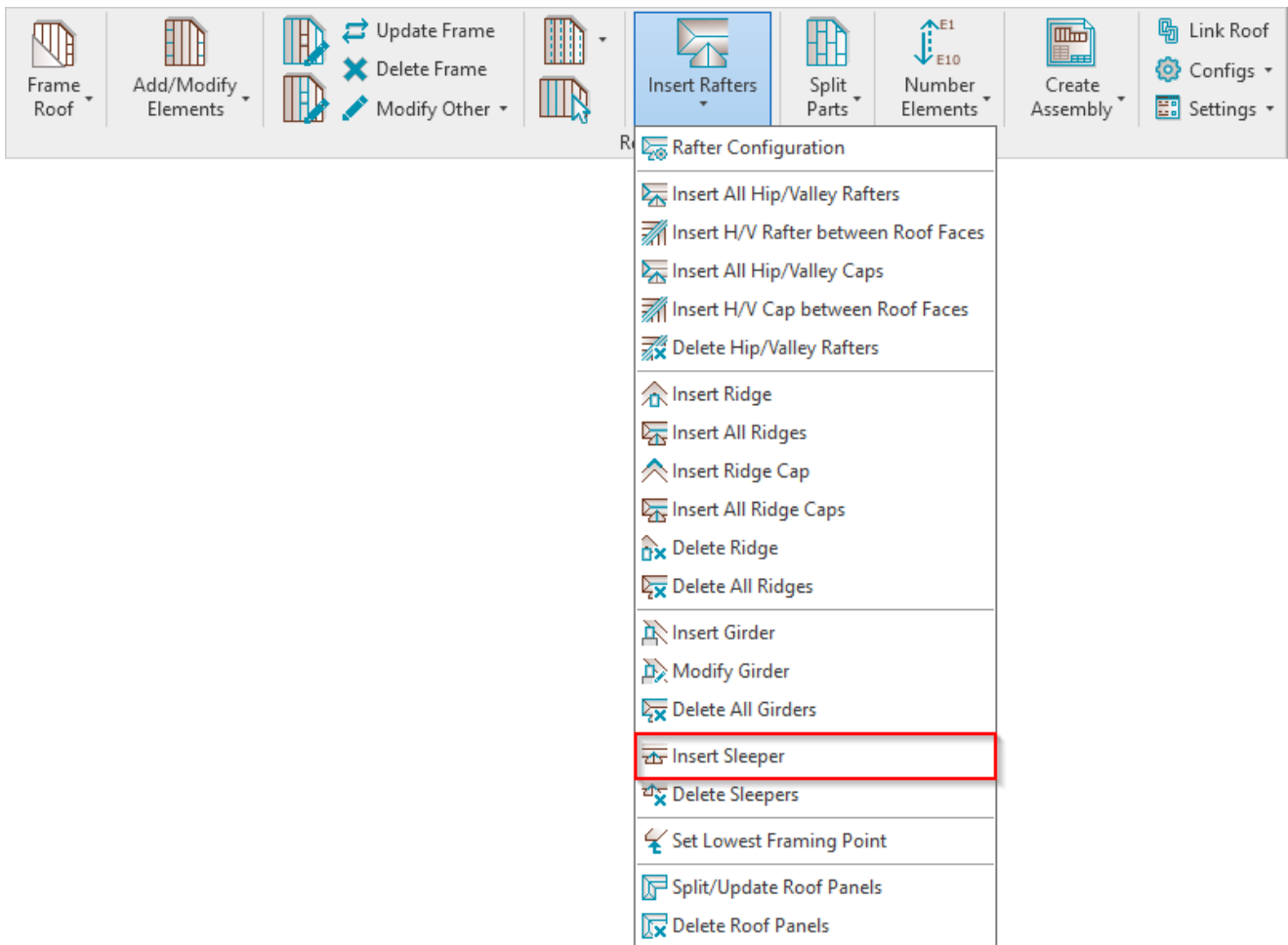
Modify Girder – modifies selected girder settings.

Delete all Girders

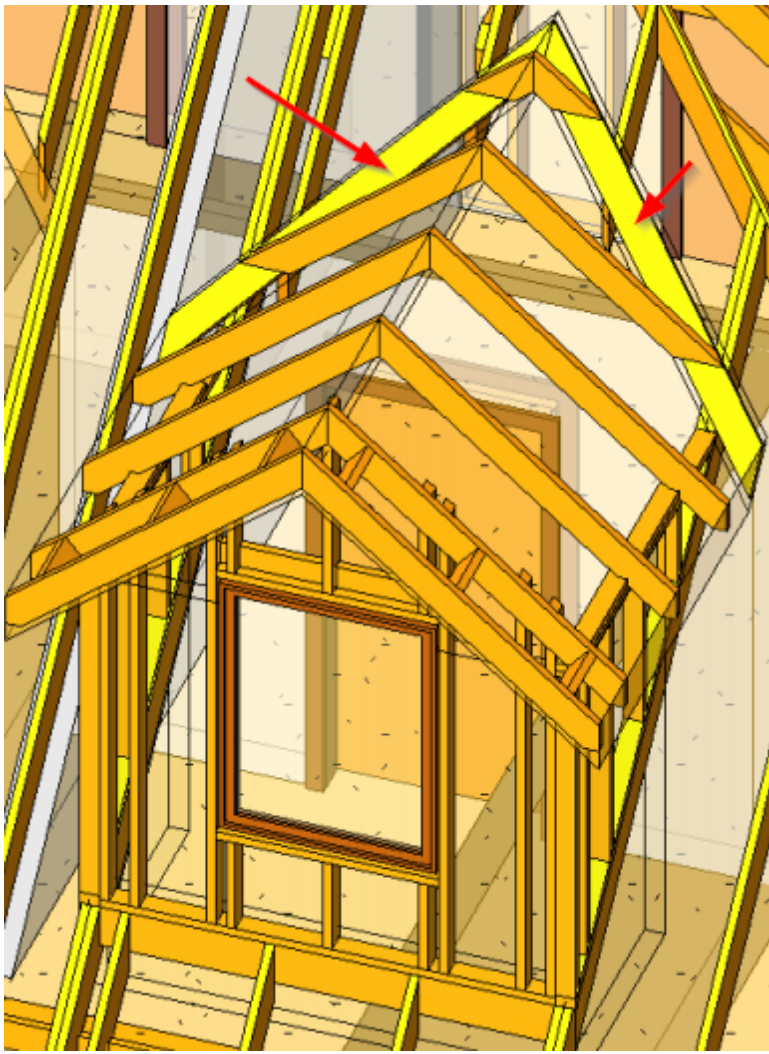


Delete all Girders – deletes all girder beams from roof.

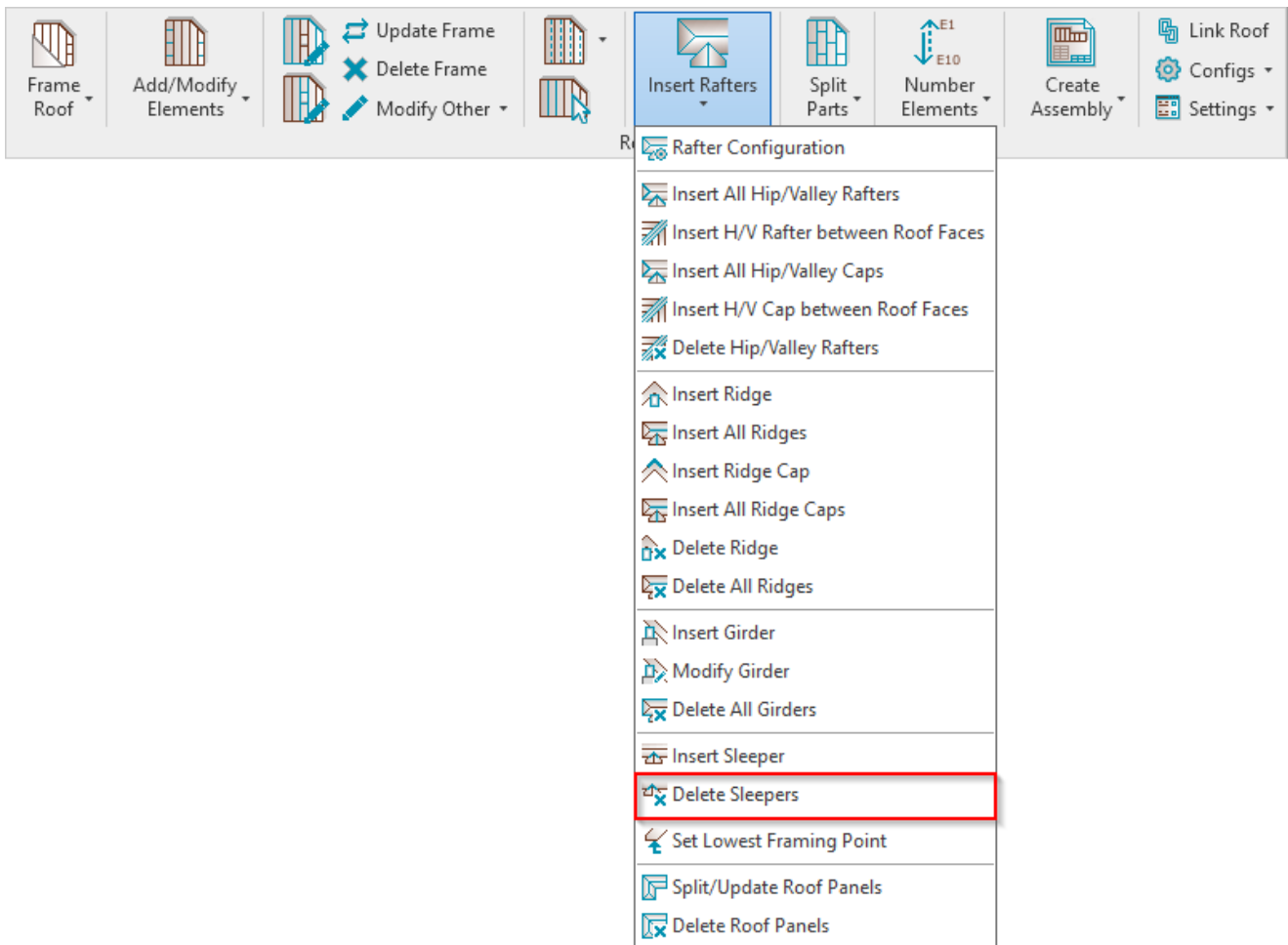
Insert Sleeper



Insert Sleeper – inserts sleeper on selected roof face. Before inserting, predefine sleeper type in **Rafter Configuration**.

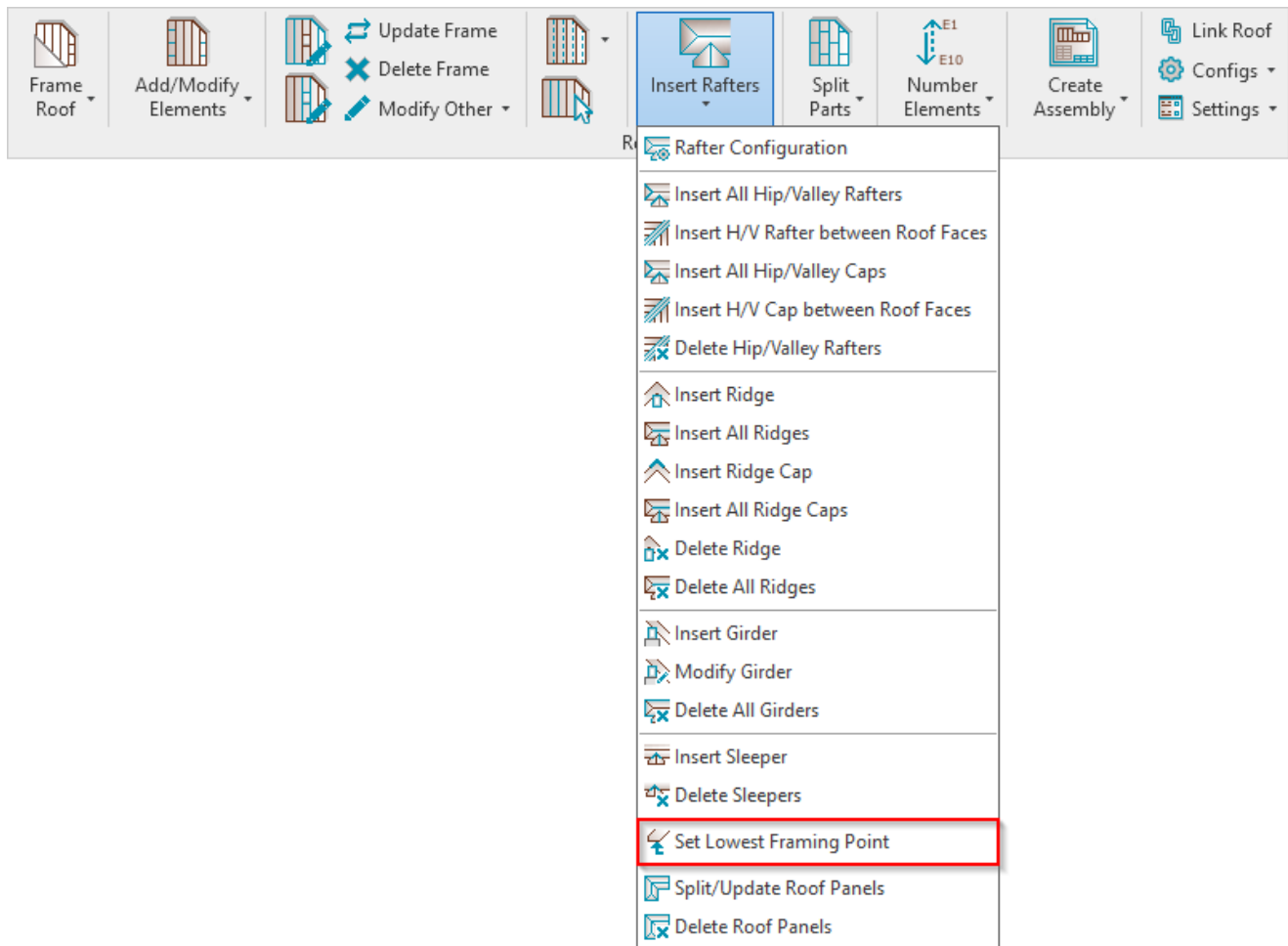


Delete Sleepers



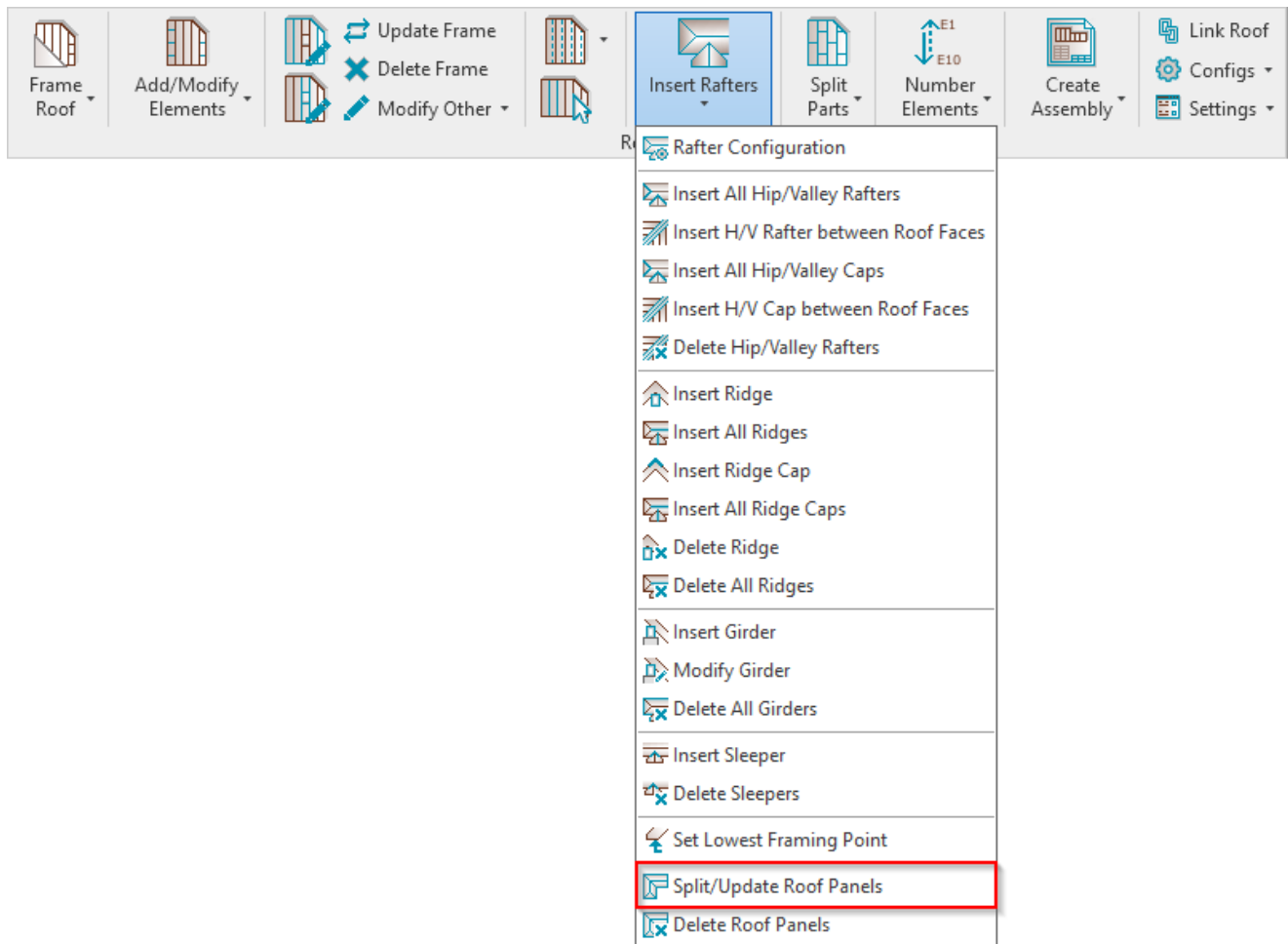
Delete Sleepers – deletes all sleepers from roof.

Set Lowest Framing Point

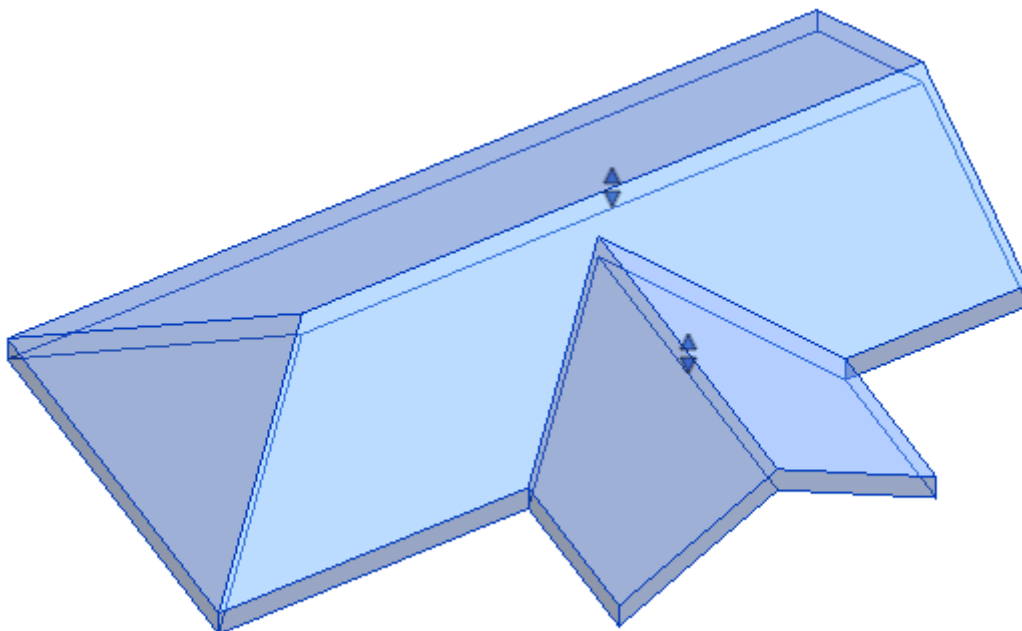


Set Lowest Framing Point – reads **Delta_Z** instance parameter value from selected joist and, after clicking **Update Frame**, this value is changed accordingly for the other joists of the selected frame. Selected joist's **Delta_Z** parameter becomes 0.

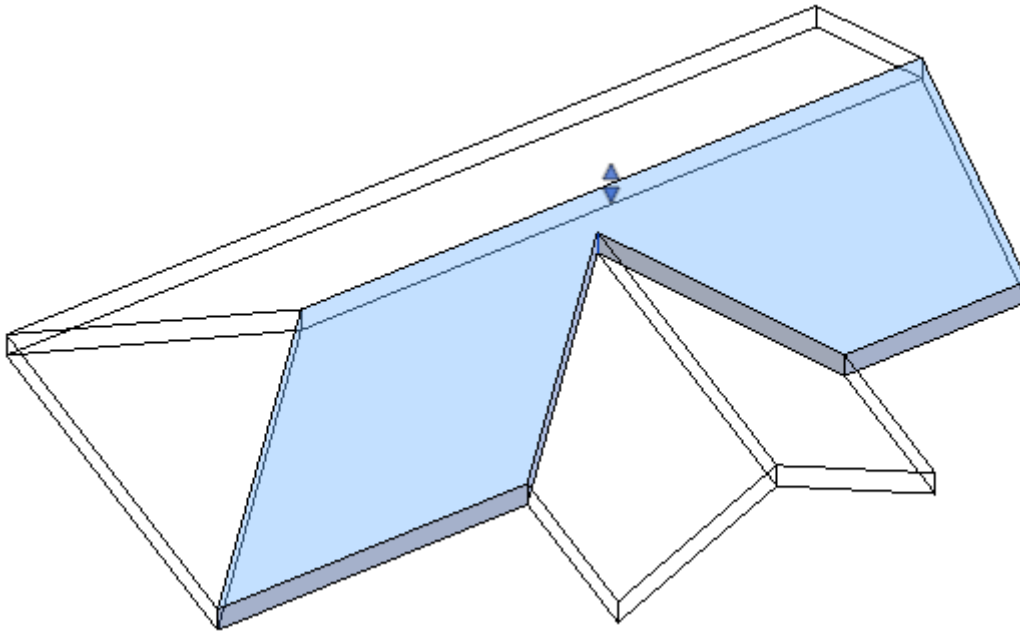
Split/Update Roof Panels



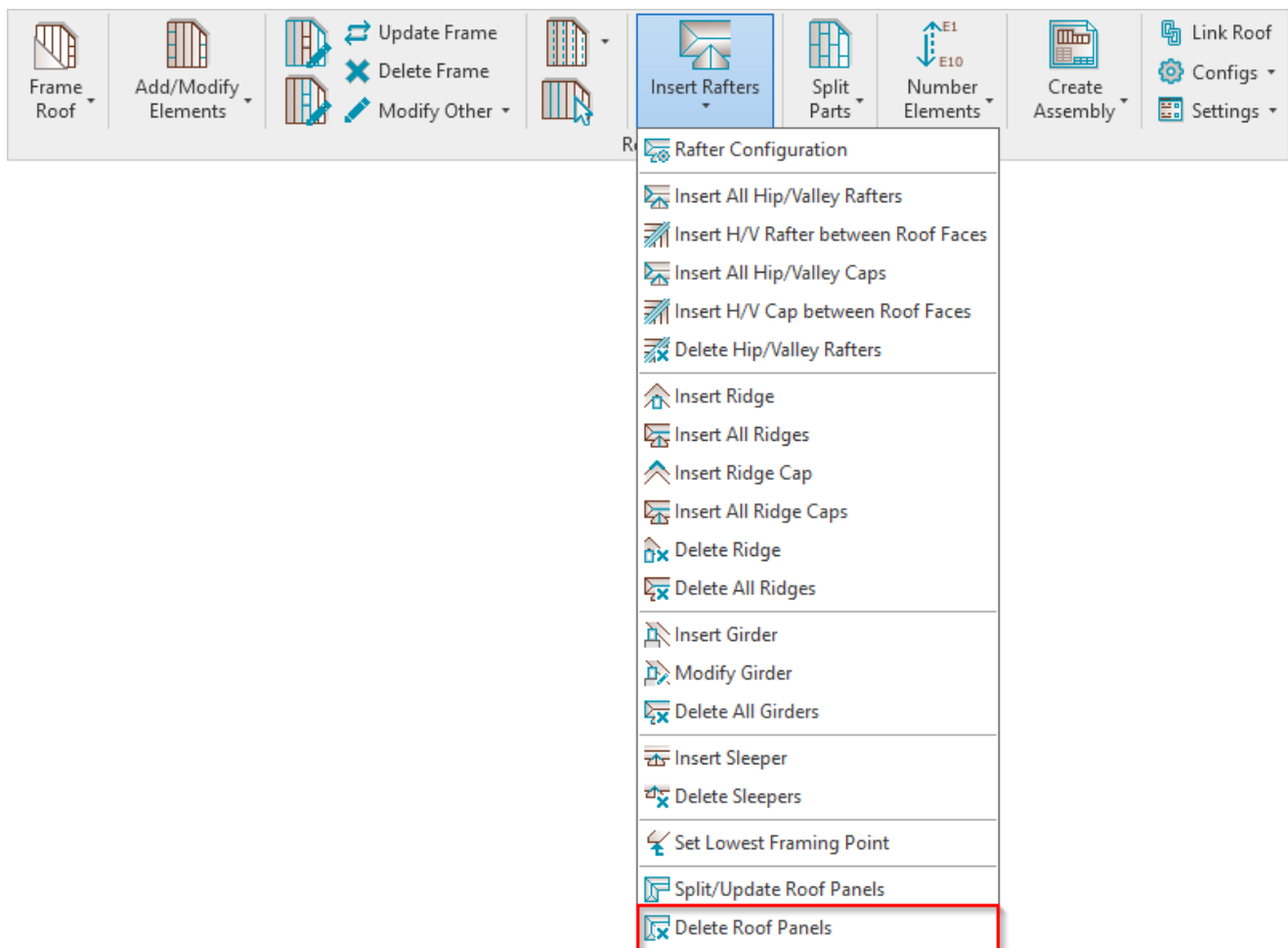
Split/Update Roof Panels – splits or updates panels for selected roof. Every roof slope will be recreated as a separate roof segment for proper roof framing.



Result: Selected single roof is split into separate roof segments.



Delete Roof Panels



Delete Roof Panels – deletes all roof panels from selected roof.

