WOOD FRAMING RAFTER+
Insert/Update Girder Beams

AGACAD
TOOLS 4 BIM

Create New Girder Beam
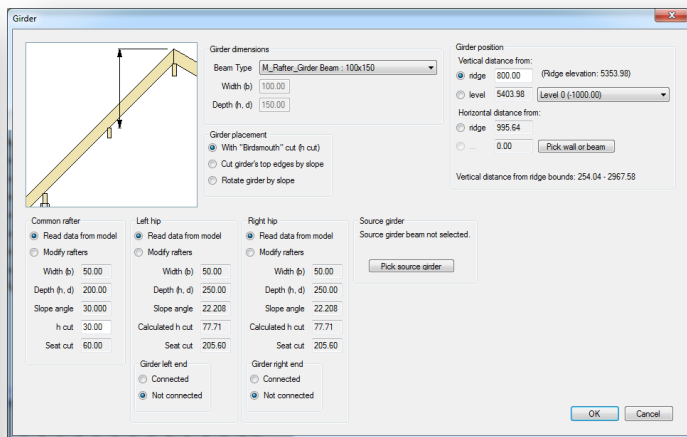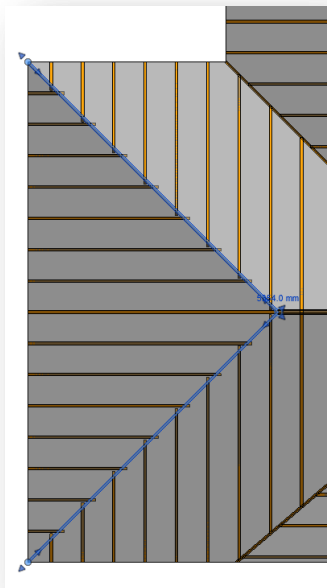
- Select two hip rafters.
- Select **Insert/Update Girder Beam** from the menu.
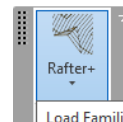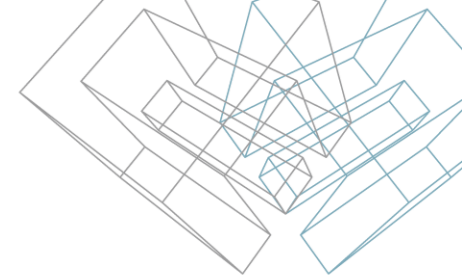
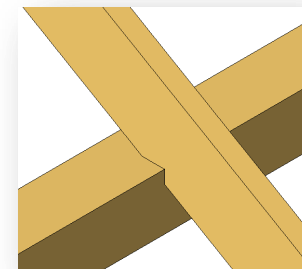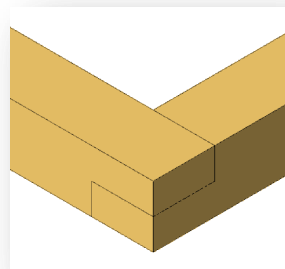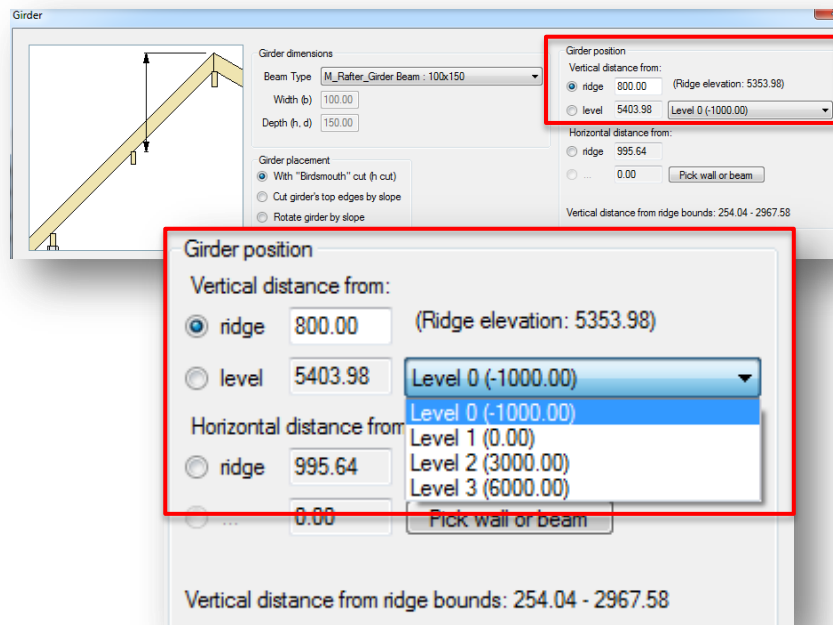# Results

Result of the first inserted Girder
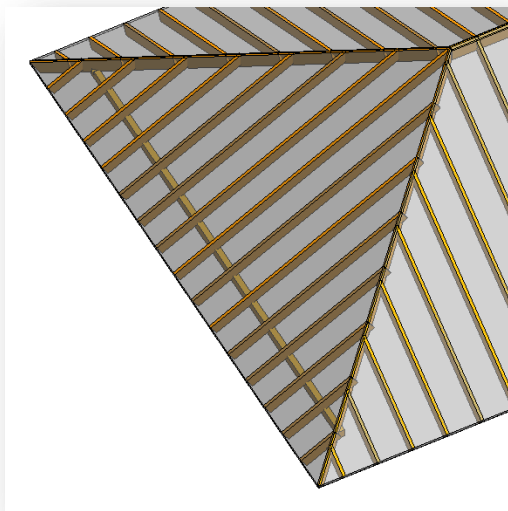
Results of girder connection and rafter-girder connection

Girder Position (vertical distance)

- Select Girder beam type from framing families loaded in the project.

- Enter girder vertical distance from the ridge or a level.

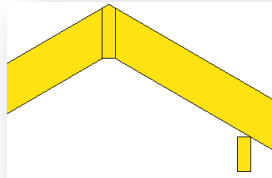# Girder Position (horizontal distance)
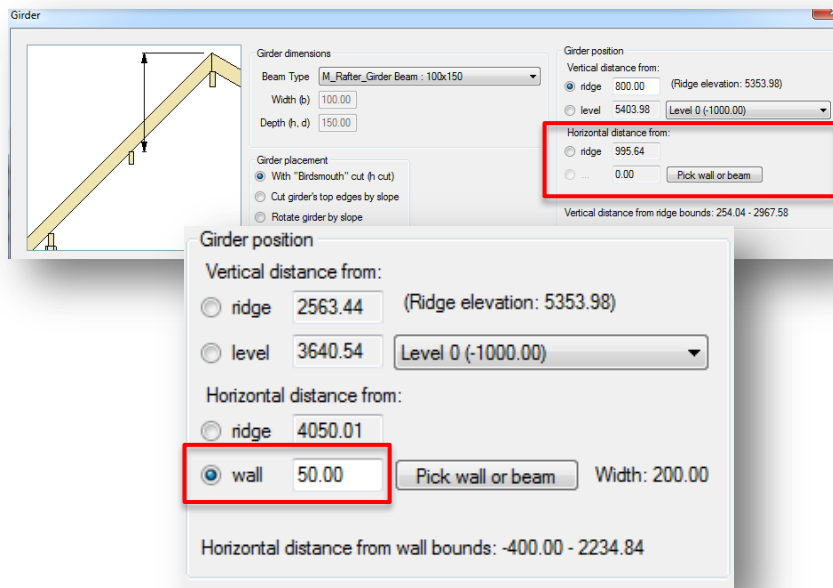
- Enter girder horizontal distance from the ridge, or press *Pick wall or beam*, and calculate girder vertical and horizontal positions automatically.

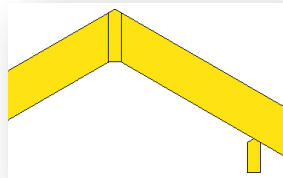- After picking the wall you can enter girder horizontal offset distance from the wall.

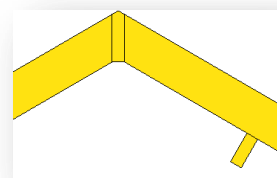# Girder Position (girder placement)
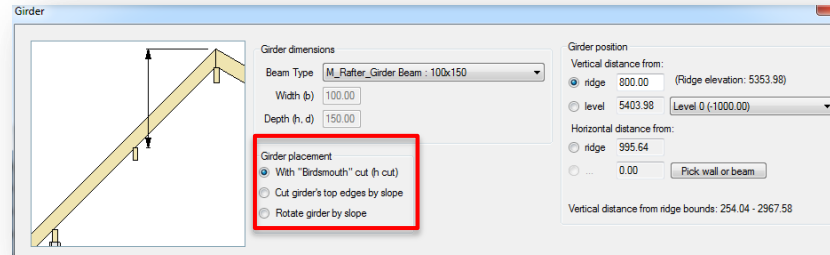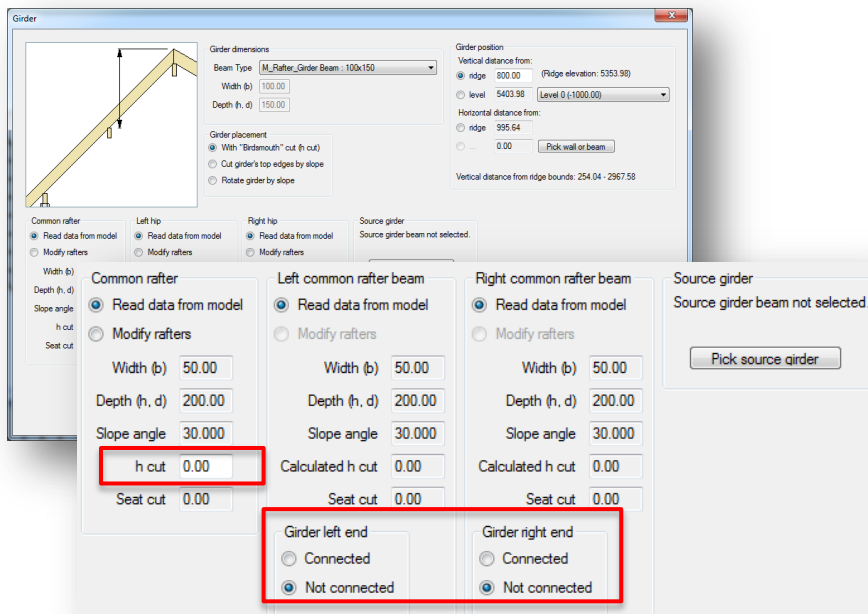

With "Birdsmouth" cut (h cut)


Cut girder's top edges by slope

Rotate girder by slope

Modify Rafter

- Select the *Modify rafters* option if you need to change dimensions of the right and left hip/valley cross section.
- Enter the rafter h cut value.
- Select girder's left and right end options:
  - Connected – the girder is extended to the hip/valley middle;
  - Not connected – the girder is extended to the hip/valley edge;
- These options are adjusted automatically if near girders exist.
- *Pick source girder* automatically reads dimensions of the selected girder and vertical position data, it also automatically calculates h cut.
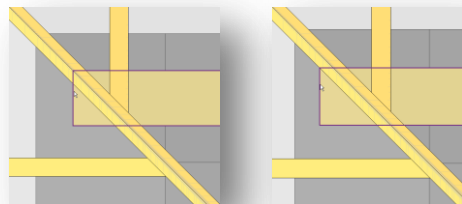
Create New Girder Beam II

Source girder
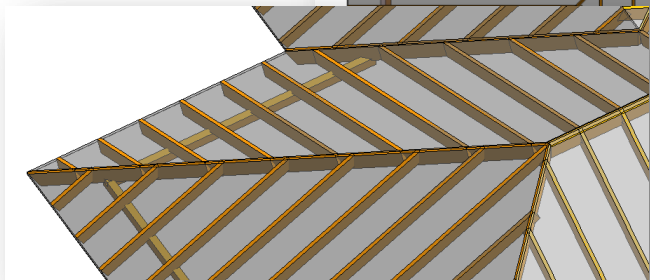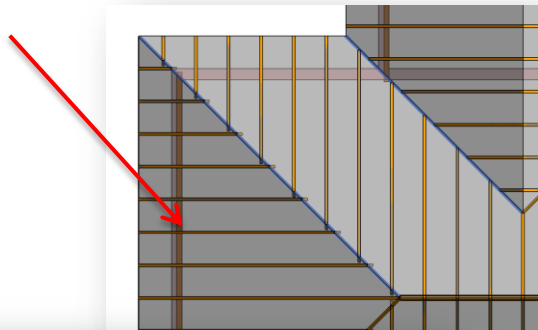
- Select hip and valley rafters.
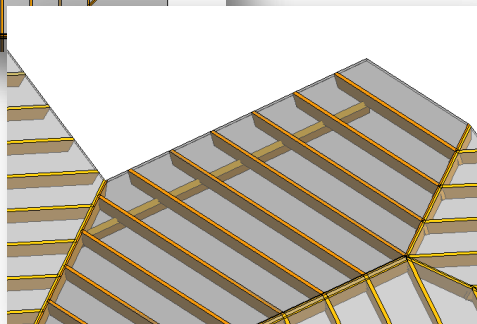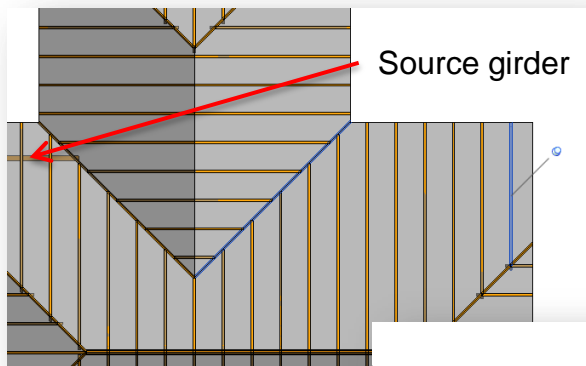- Select the **Insert/Update Girder Beam** function from the menu.
- Select a wall by clicking *Pick wall or beam,* and provide a girder offset distance from it if necessary.

NOTE: *(Positive value makes inward offset from the wall, negative – outward.)*

- Click OK.

Create New Girder Beam III

Source girder

- Select a valley and a common rafter.
- Select the **Insert/Update Girder Beam** function from the menu.
- Select a wall by clicking *Pick wall or beam*, and provide a girder offset distance from it if necessary. (Positive value makes inward offset from the wall, negative – outward.)
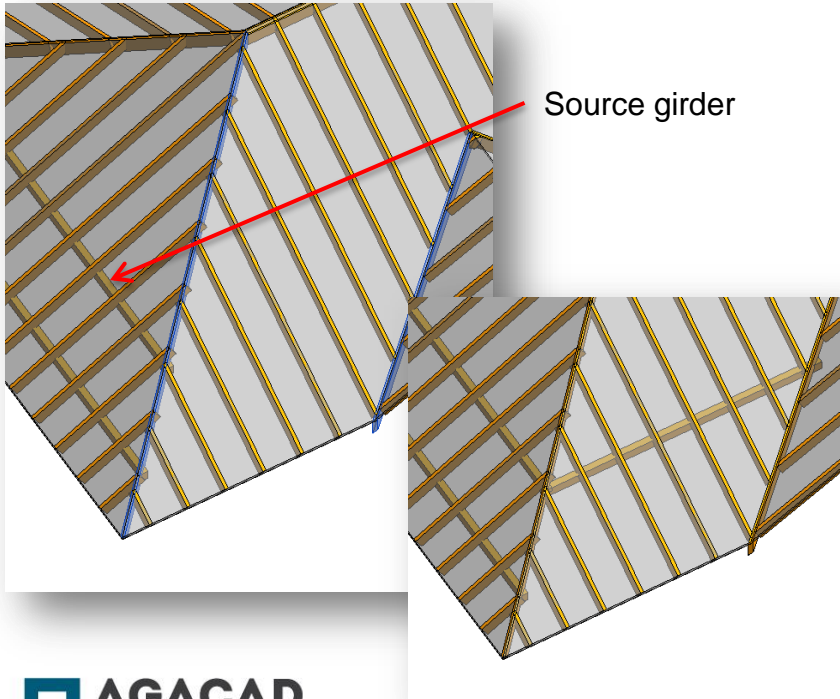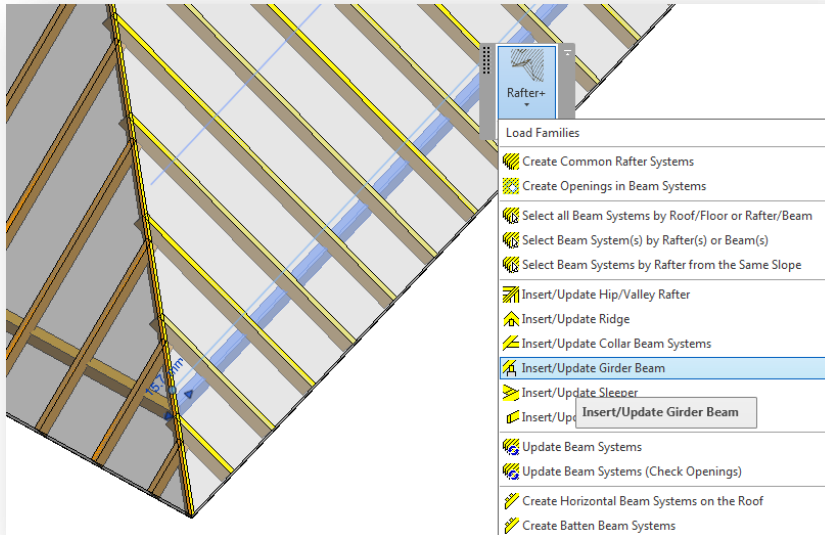- Select a source girder by clicking Pick source girder, and click OK.

# Create New Girder Beam IV

Source girder

- Select a valley and a hip rafter.
- Select the **Insert/Update Girder Beam** function from the menu.
- Select a source girder by clicking Pick source girder, and click OK.

Update Girder Beam

- Select a girder beam.
- Select **Insert/Update Girder Beam** from the menu.
- The settings window and the new girder window creations are identical.
- Make your changes, and click OK.
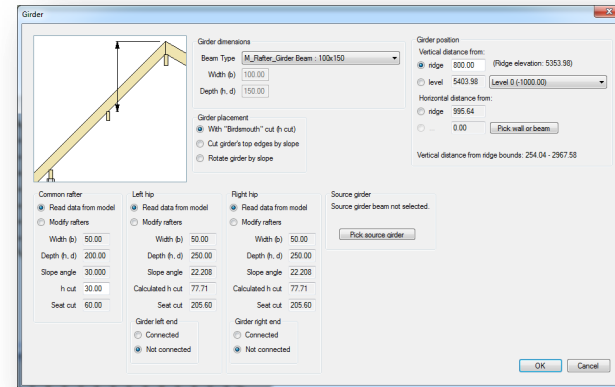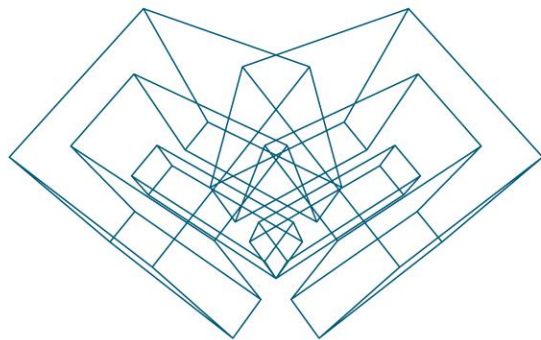
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