Creating an Energy Heel Truss

Reference Number: **KB-00032**
Last Modified: **December 22, 2015**

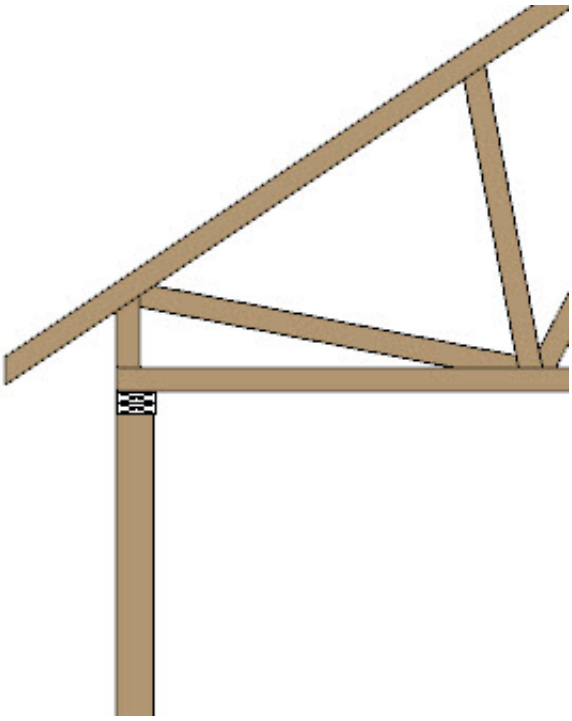
The information in this article applies to:

QUESTION

How do I make an energy heel truss?

ANSWER

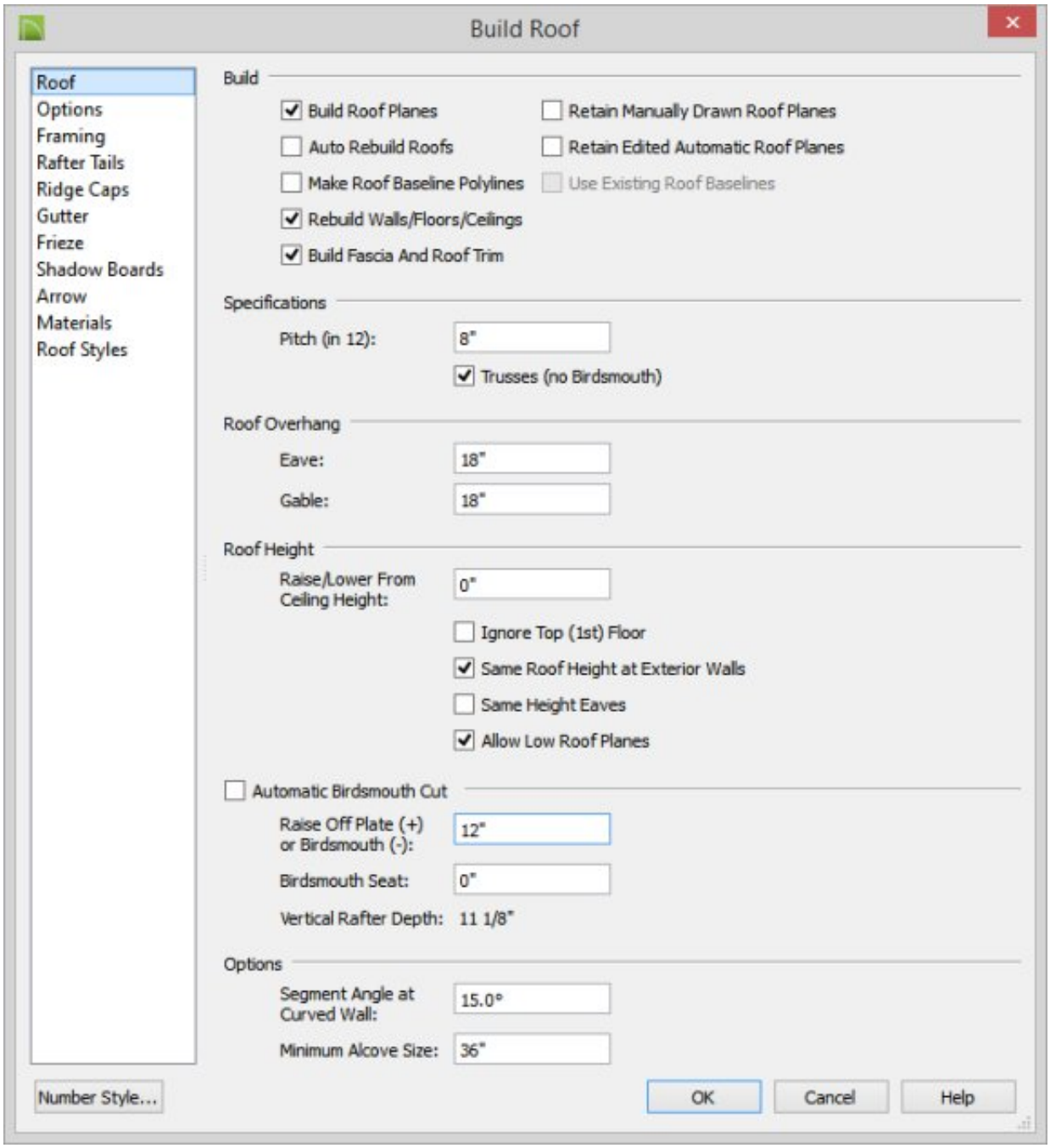
For energy efficiency, some areas recommend an energy heel, or raised heel, so that there is not a cold spot in the intersection where the roof meets the wall. An energy heel raises the roof, and allows for more insulation to reach the outside wall.



To build the roof

1. Click **Build> Roof> Build Roof** to display the **Build Roof** dialog.

2. On the ROOF panel:

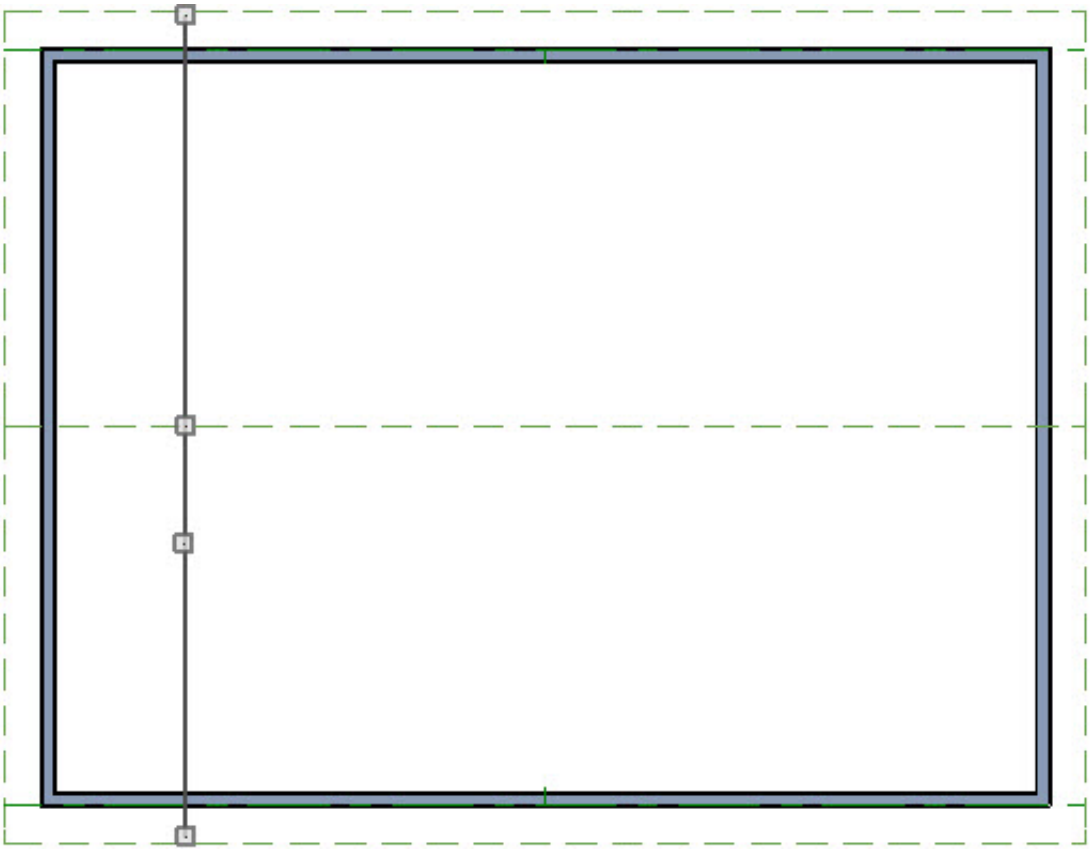


- Under the Build heading, place a checkmark next to **Build Roof Planes**.
- Under the Specifications heading, check **Trusses (no Birdsmouth)**.
- Remove the checkmark next to **Automatic Birdsmouth Cut**.
- Specify the **Raise Off Plate (+)** value to the height you want the energy heel. For the purposes of this example, use 12".
- Click **OK** to close the Build Roof dialog and generate the roof planes based on these settings.

To build the energy heel truss

1. Click **Build> Framing> Roof Truss** .

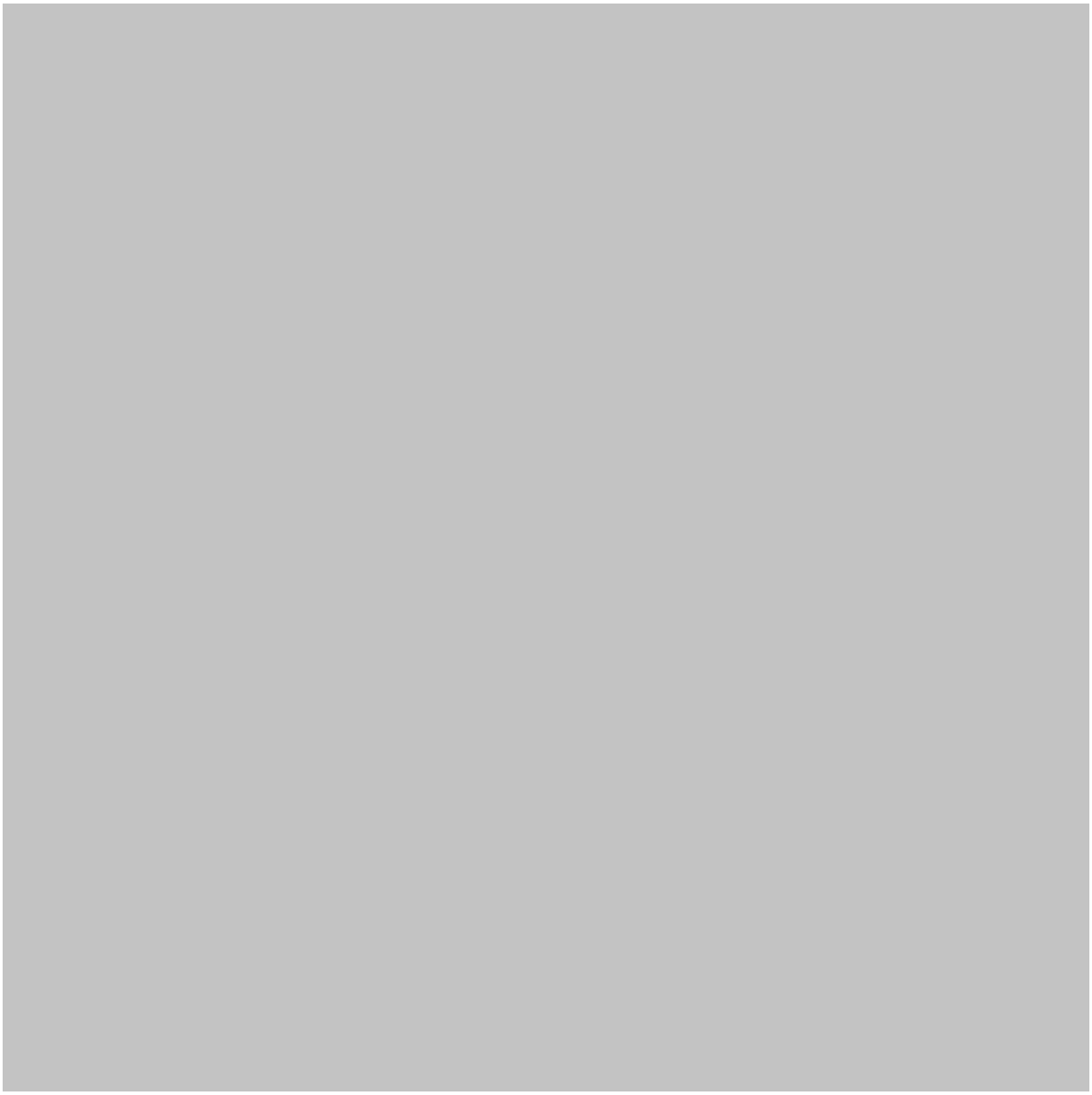
2. Click and drag to draw a roof truss.



3. If prompted that, the layer "Framing, Roof Trusses" is not displayed, click **Yes** to turn on the display of this layer in the current view.

4. Using the **Select Objects** tool, select the roof truss and then use the **Open Object** edit button to display the **Roof Truss Specification** dialog.

5. On the GENERAL panel:



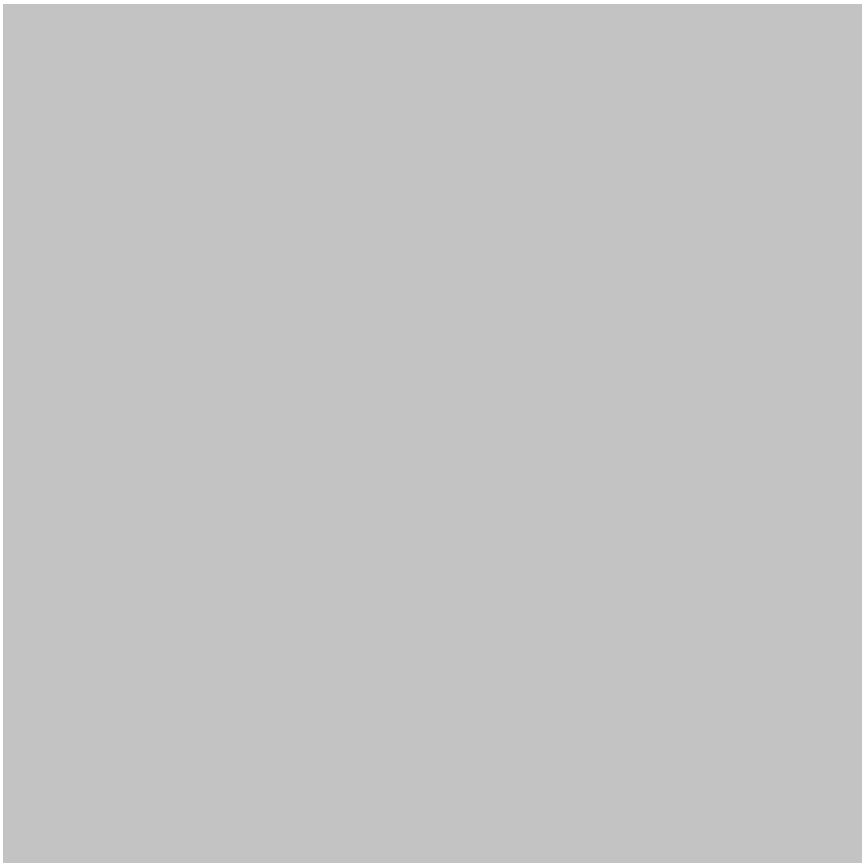
- Check **Energy Heel**.
- Check **Force Truss Rebuild**.
- Click **OK** to apply these changes and close the dialog.

To use the Multiple Copy tool to copy the truss across the structure

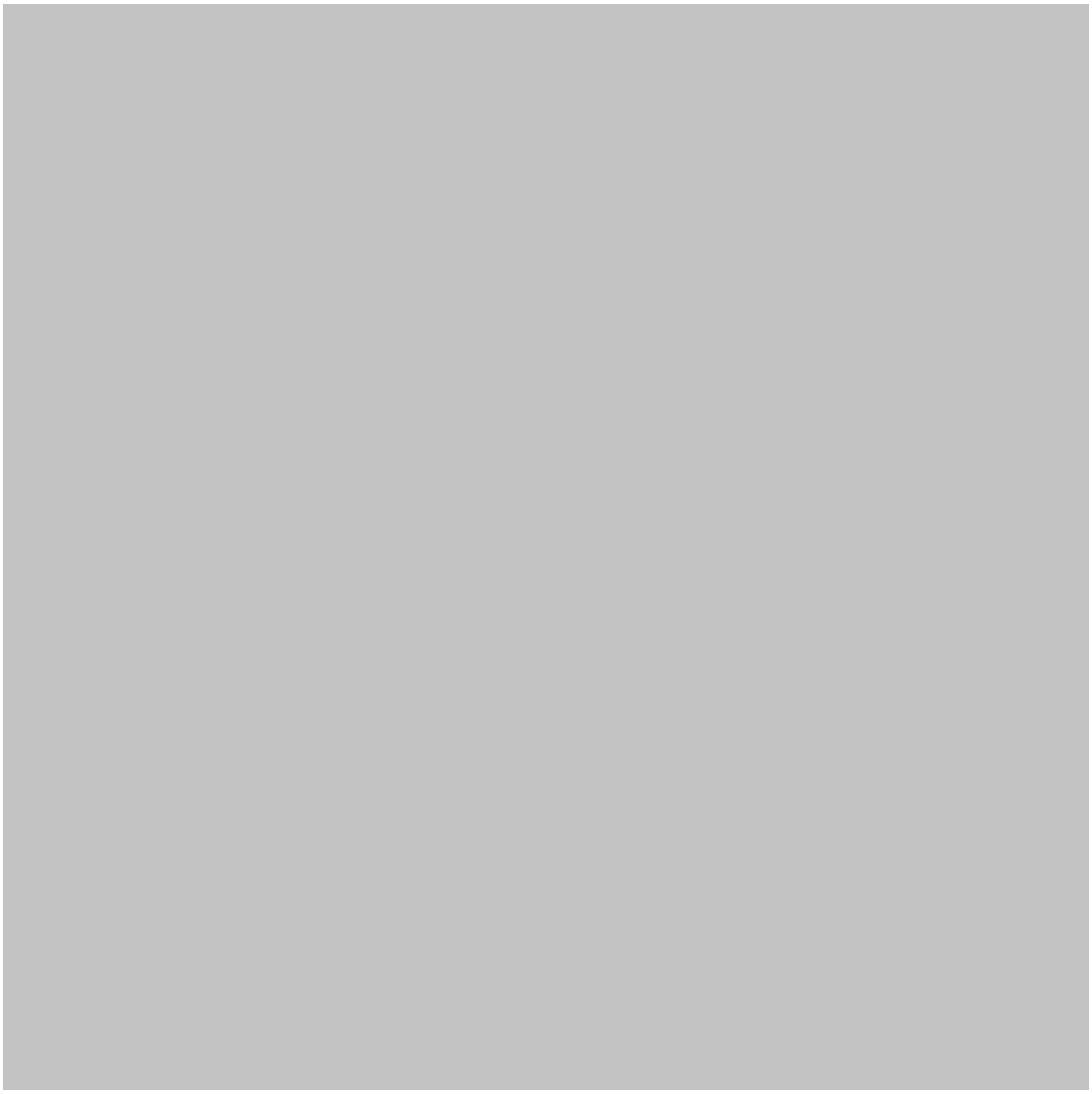
1. Move the truss to the outside edge of your structure. It will snap to the outer edge of framing automatically.

2. With the truss still selected click on the **Multiple Copy** edit tool.

3. Click on the **Multiple Copy Interval** edit button and verify that the **All Trusses** is set to the desired spacing and click **OK**.



4. Move your cursor over the **Move** edit handle of the truss. You will notice that your cursor changes to the multiple copy cursor.



5. Click and drag across your plan to place trusses at regular intervals.

6. Click **3D> Create Perspective View> Perspective Framing Overview** to see the results.