**Example:** Hipped Trellis

In this lesson I make a sloped hip roof trellis. A Gable or Flat trellis can also be made with this method.

1. Draw a beam shape and select the top face as shown below. Think of the top of the beam as a building outline and the trellis as a wide eave extending from the building.

2. Choose “Plugins/ Instant Roof/ Make Roof”.

3. In the pop-up menu, then choose “Trellis” from the “Roof Style?” pull down menu. In the second field, “Edit Slope, Eave, and Fascia Settings?”, choose “yes”. Then choose “OK” to show the next menu:
4. Under “Roof Slope”, choose “6:12”. Then choose “OK” to show the next menu:

5. Choose “OK” to accept the changes without making a new style. A Hip roof will be generated:

6. Select and erase the 2 groups containing the roof surface and fascia to retain only the beams:

7. Double click the end of a rafter twice to open the end component for editing. Here I draw a horizontal line on the end and used the push-pull tool to make a notch.
8. I edited a hip beam similarly. Then added some columns, beams, and texture to get the completed structure:

![Completed structure](image)

9. Here are a few more open beam structures that were made using the same method:

- **Extrude a circle to make a post.** Select the top of the post and repeat steps 2-5.

- **Draw an “L” shaped beam.** Select the top face and repeat steps 2-6.

- **Draw a small square face.** Select it and repeat steps 2-6.

- **Draw a beam.** Select the top face plus the short edges on each end. Repeat steps 2-6.