

## Creating a Dutch Hip Roof

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Reference Number: **KB-00749**

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The information in this article applies to:



QUESTION

How do I create a Dutch hip or Dutch gable roof?



## ANSWER


A Dutch hip roof, sometimes called a Dutch gable roof, is a combination of hip and gable roof styles in which a gable is located at the end of the ridge, at the top of a hip roof plane. Creating a Dutch hip roof is easy to do by following the steps below.

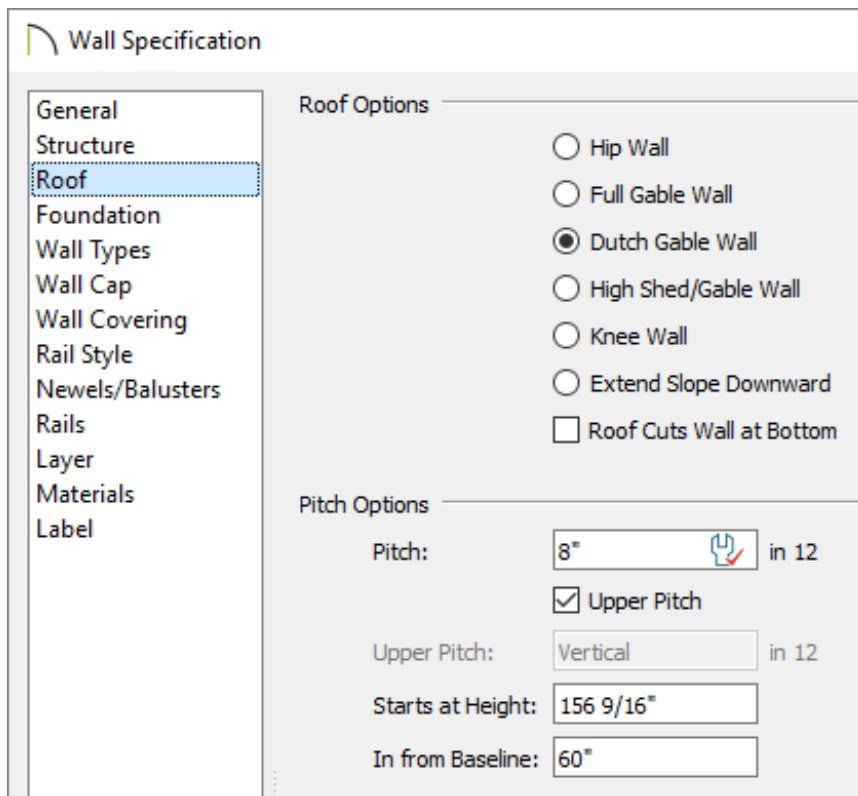
To create a Dutch hip roof automatically


*Applies to Chief Architect Premier, Chief Architect Interiors, Home Designer Pro, Home Designer Architectural, and Home Designer Suite.*

1. Open a Chief Architect plan in which you would like to create a Dutch hip roof on.

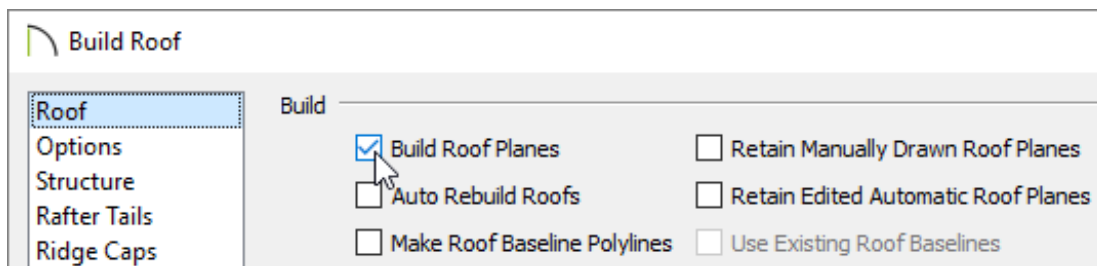
In this example, a simple 20' x 30' building with 109 1/8" ceiling height is used.

2. Select the wall you would like to build a Dutch hip over and click on the **Open Object**  edit button.
3. In the **Wall Specification** dialog that opens, click on the **Roof** panel, select the **Dutch Gable Wall** option, set the **Pitch**, the **Starts at Height** or **In from Baseline** value, and then click **OK** to confirm the changes.



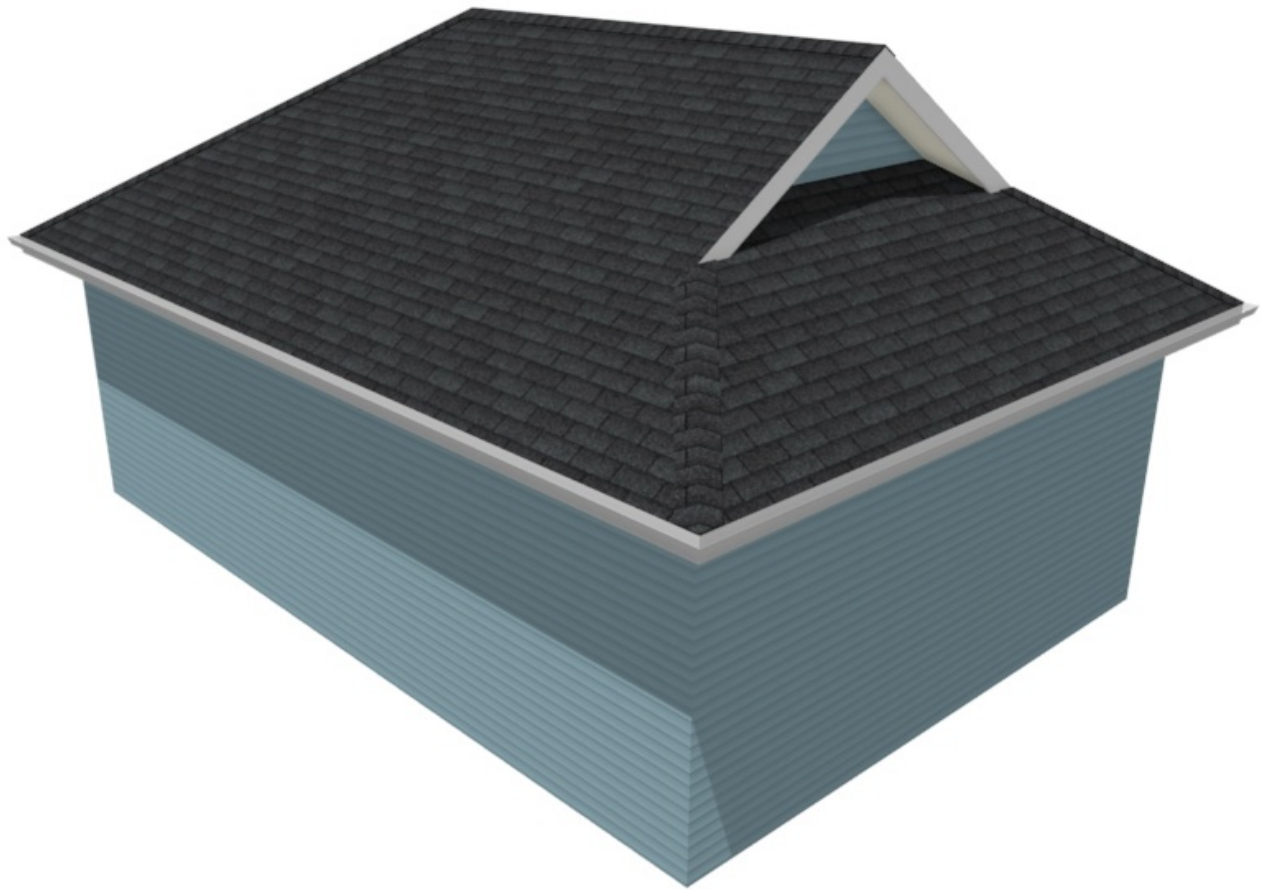
4. Select **Build> Roof> Build Roof**  to open the **Build Roof** dialog. Check the box beside **Build Roof Planes**, then click **OK** to close the dialog box and automatically generate a roof with a Dutch hip over the wall that was modified.

In Home Designer Suite and Home Designer Architectural, open the Build Roof dialog and click OK to build roof planes.



You can also check the Auto Rebuild Roofs box if you'd like your roofs to update automatically anytime a change is made to a wall.

5. Select **3D> Create Perspective View> Perspective Full Overview**  to see the results.




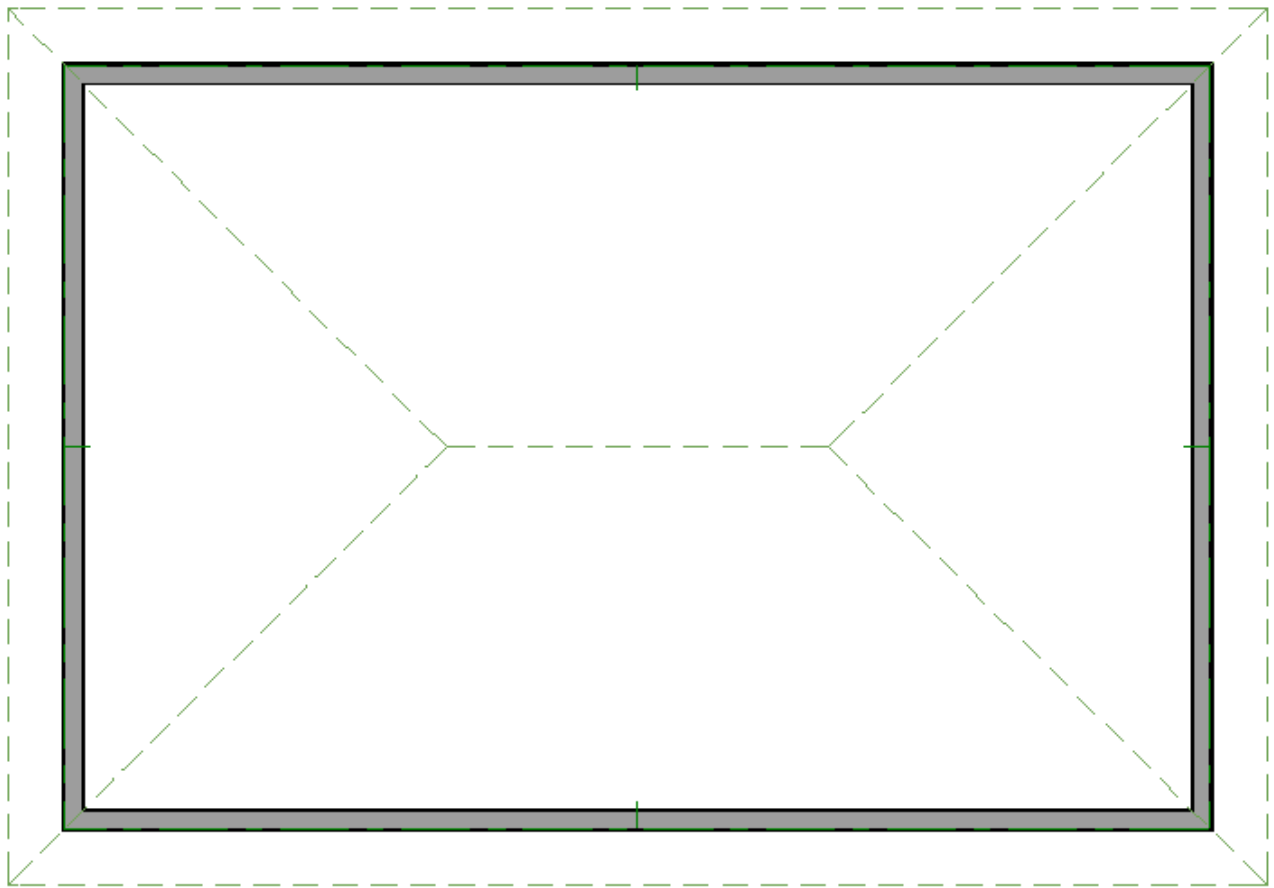
To create a Dutch hip roof manually


*Applies to Chief Architect Premier, Chief Architect Interiors, and Home Designer Pro.*

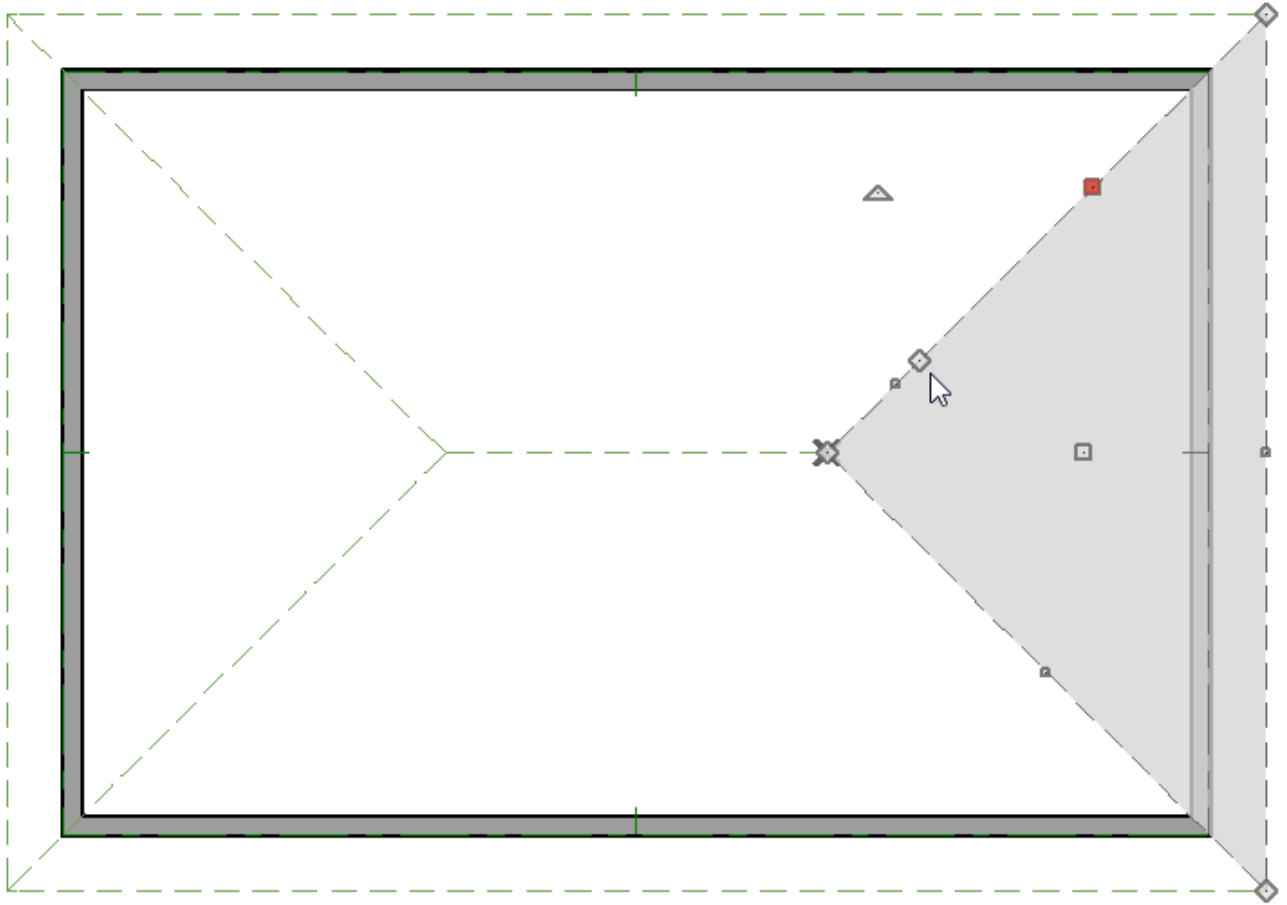
1. Open a Chief Architect plan in which you would like to create a Dutch hip roof.

In this example, a simple 20' x 30' building with 109 1/8" ceiling height is used.

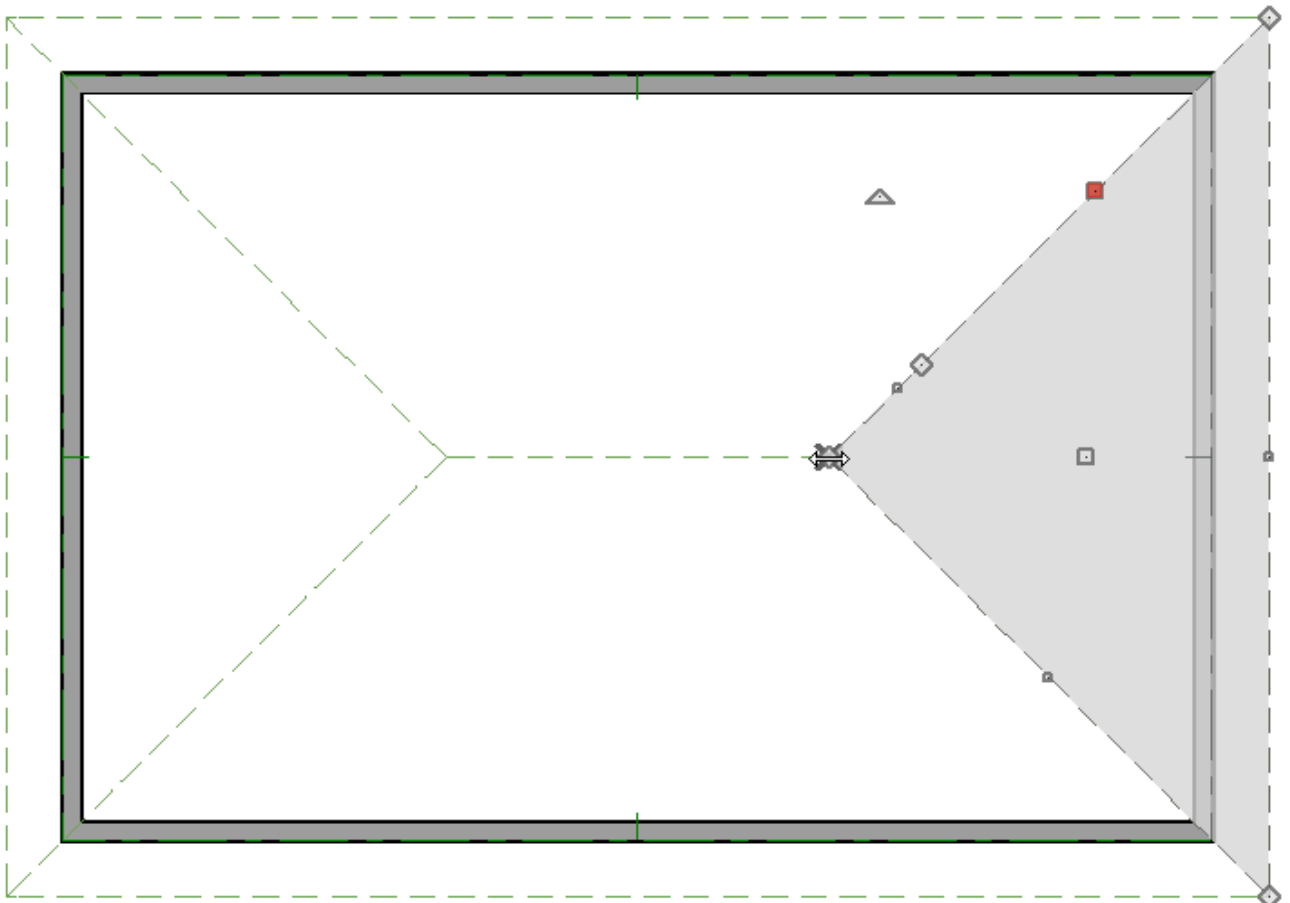
2. Select **Build> Roof> Build Roof**  to open the **Build Roof** dialog. Check the box beside **Build Roof Planes**, then click **OK** to close the dialog to generate a hip roof.




3. Click on one of the side edges of a roof plane in which you would like to build a Dutch hip to select it along that edge.
4. Click the **Break Line**  edit button, then click once along the edge that you selected to place a corner handle or 'joint' at that location. Do not worry about exact placement at this time.





5. Click on the edit handle that displays at the peak of the roof plane and drag it down to produce a triangular-shaped opening in the roof.




- You may want to click on the new edge to select it, click the **Make Parallel**  edit button, then click on the wall that the roof plane is resting on to ensure the roof plane you just edited is parallel to that wall.


6. Select **Tools> Reference Floors> Up One Floor**  to go up to the Attic level.

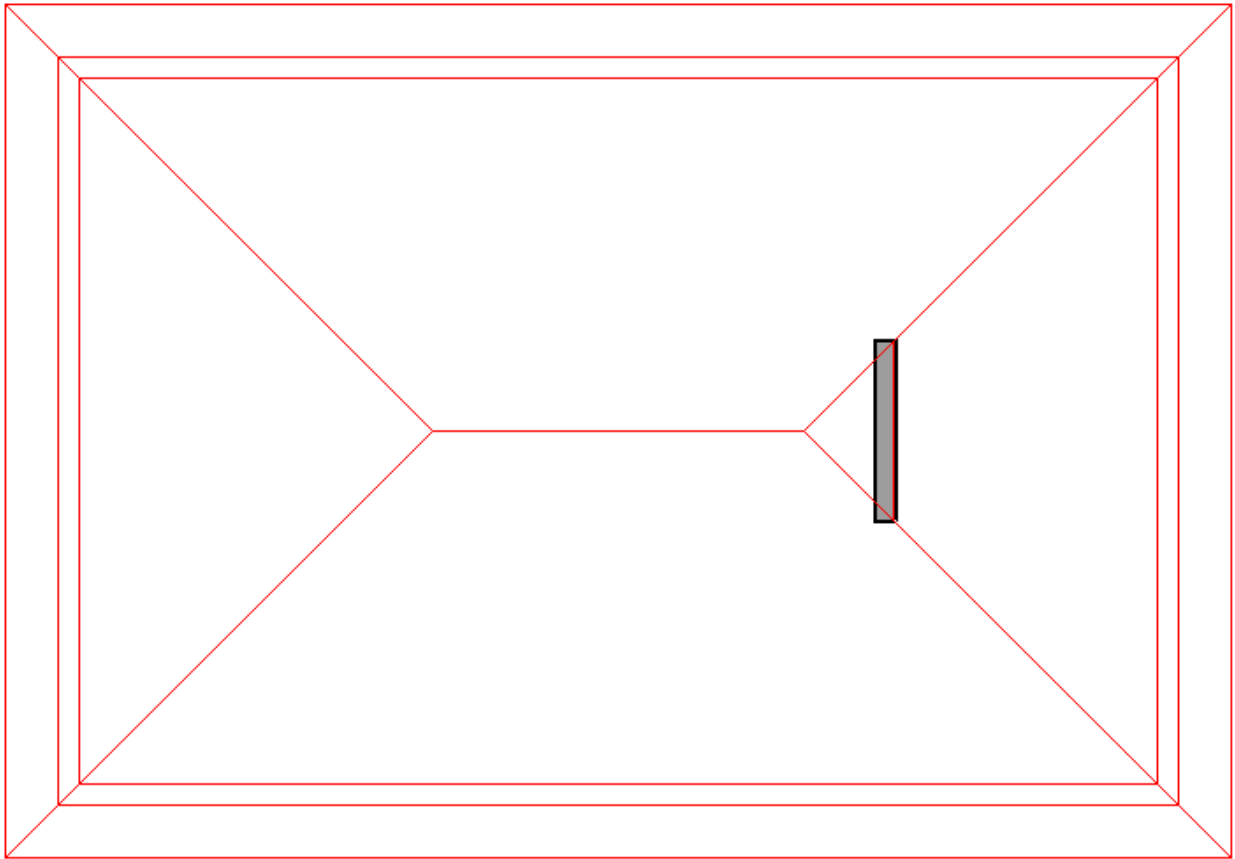
7. Select **Tools> Reference Floors> Reference Floor Display**  from the menu to display the 1st floor walls and roof planes as red lines.



If your roof planes do not display as part of the Reference Display, select **Tools> Reference Floors> Reference Floor Display Options** , place a check in the **Disp** column next to the **Roof Planes** display layer, then click **OK**.

8. Select **Build> Wall> Straight Exterior Wall**  from the menu, then click and drag along the edge of the roof plane edge that you created in steps 3, 4 and 5. This will be the gable wall.

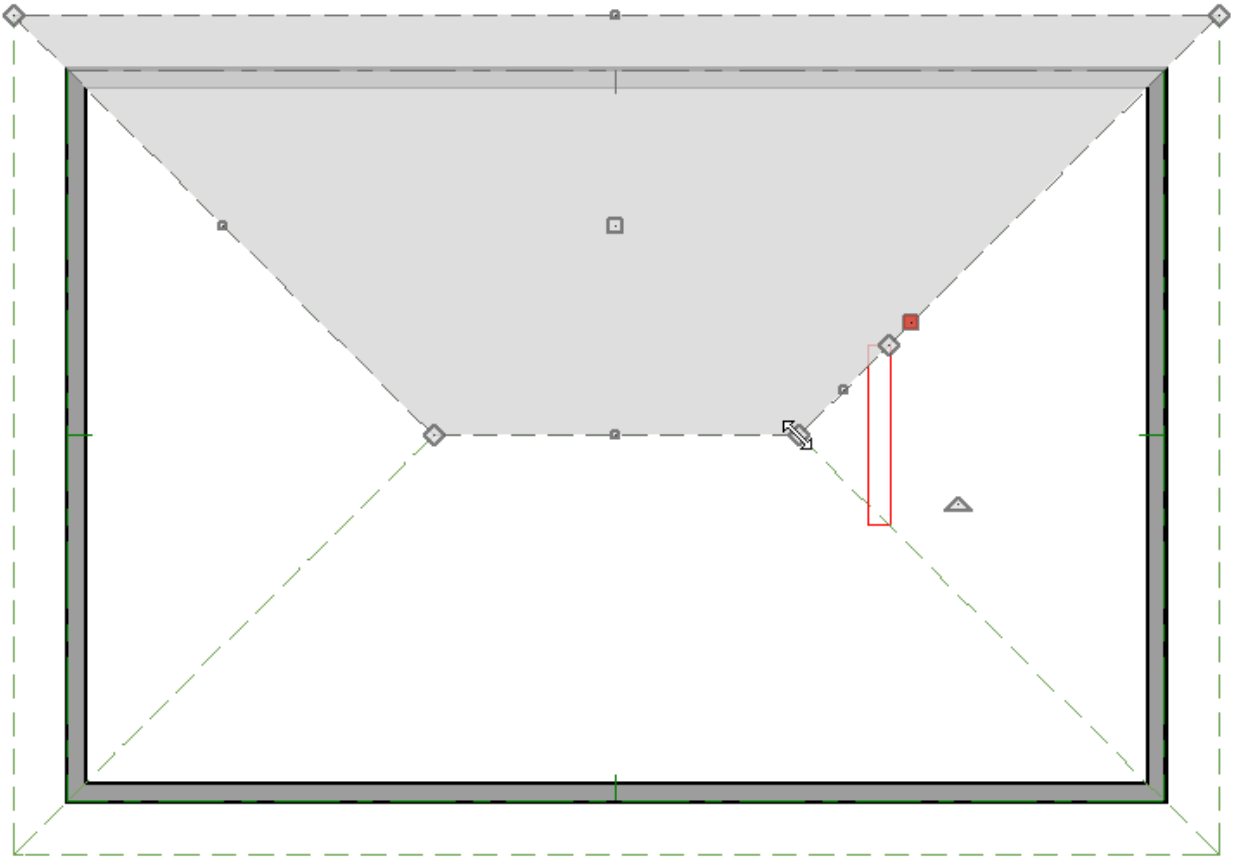
**Note:** You may receive a warning mentioning the placement of objects on the Attic level. Hit OK and proceed with creating the wall.


- The exterior surface of the wall should be just inside, or above, the top edge of the hip roof.
- If it's too low or too high, click on the wall to select it and use the **Move**  edit handle to move into the correct location.



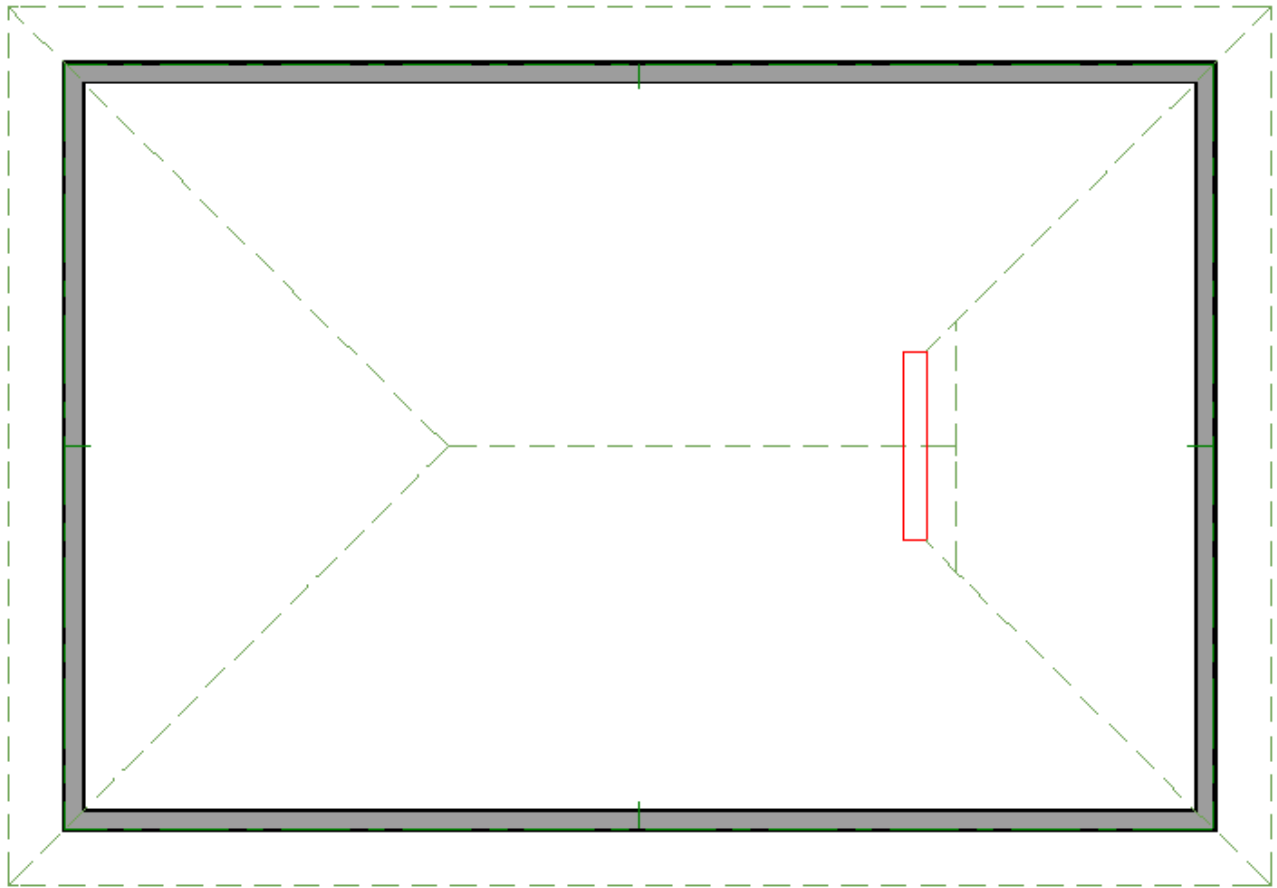
- Alternatively, you may wish to move the roof plane edge to make room for the gable wall.
9. Select **Tools> Reference Floors> Down One Floor**  to return to Floor 1.  
Notice the gable wall that was placed in the attic displays a red outline.
10. Click on one of the roof planes on either side of the Dutch hip to select it, click the **Break Line**  edit button, then click once along that edge to place a break at that location, as in step 4 above.
- Click and drag the edit handle at the ridge to create a new edge that is parallel to the gable wall.



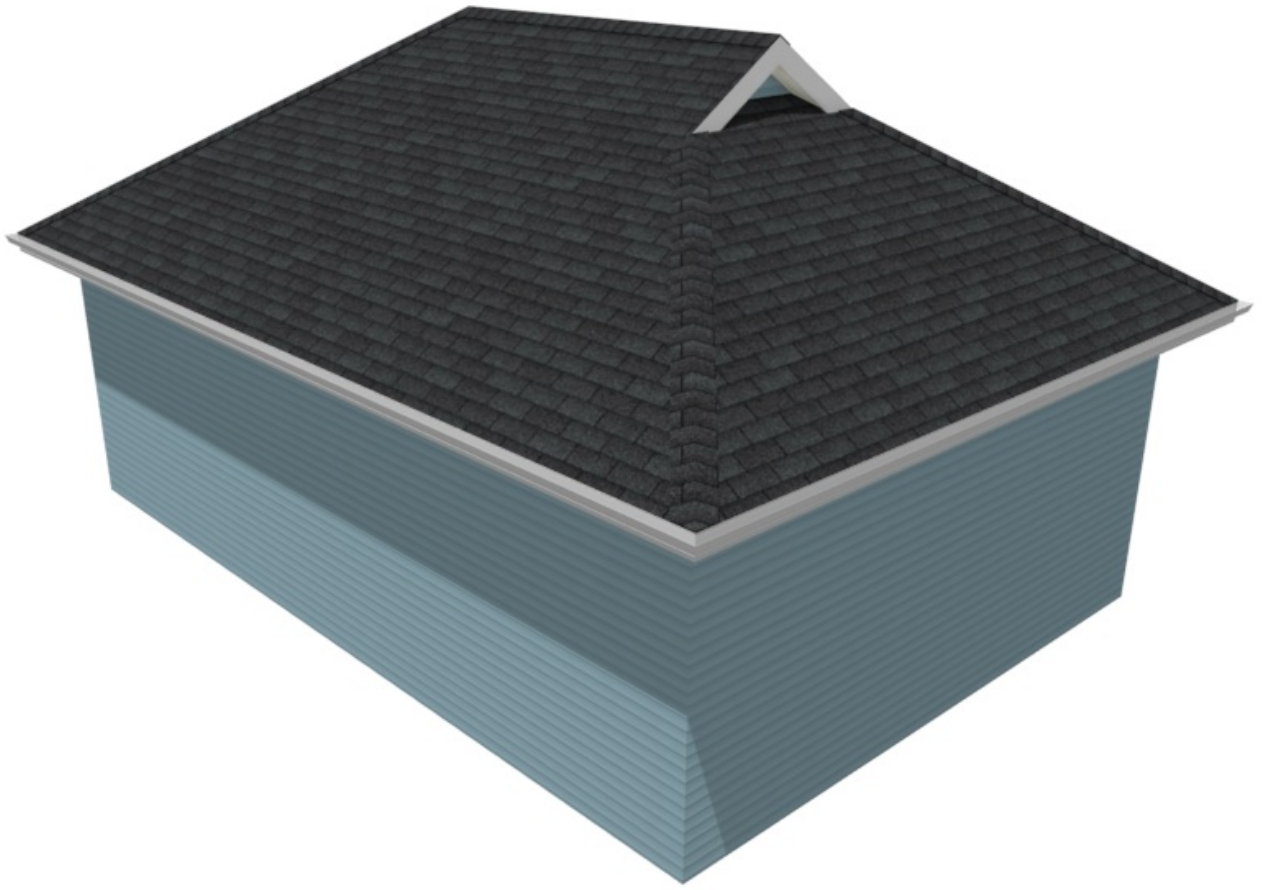


- Click the **Make Parallel**  edit button and click on the wall that the Dutch hip is bearing on to make it parallel to that wall.
- Adjust the position of the roof edge to create an overhang.

11. Repeat step 10 with the roof plane on the other side of the Dutch hip.



12. Select **3D> Create Perspective View> Perspective Full Overview**  to see the results.



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