

Generating a Half-Hip Roof Automatically

Reference Number: **KB-00736**

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The information in this article applies to:



QUESTION

I would like to create a half-hip roof. Is it possible to do this automatically?



ANSWER

A half-hip roof is a combination of gable and hip roof styles in which a hip roof plane builds upward from a partial gable wall.

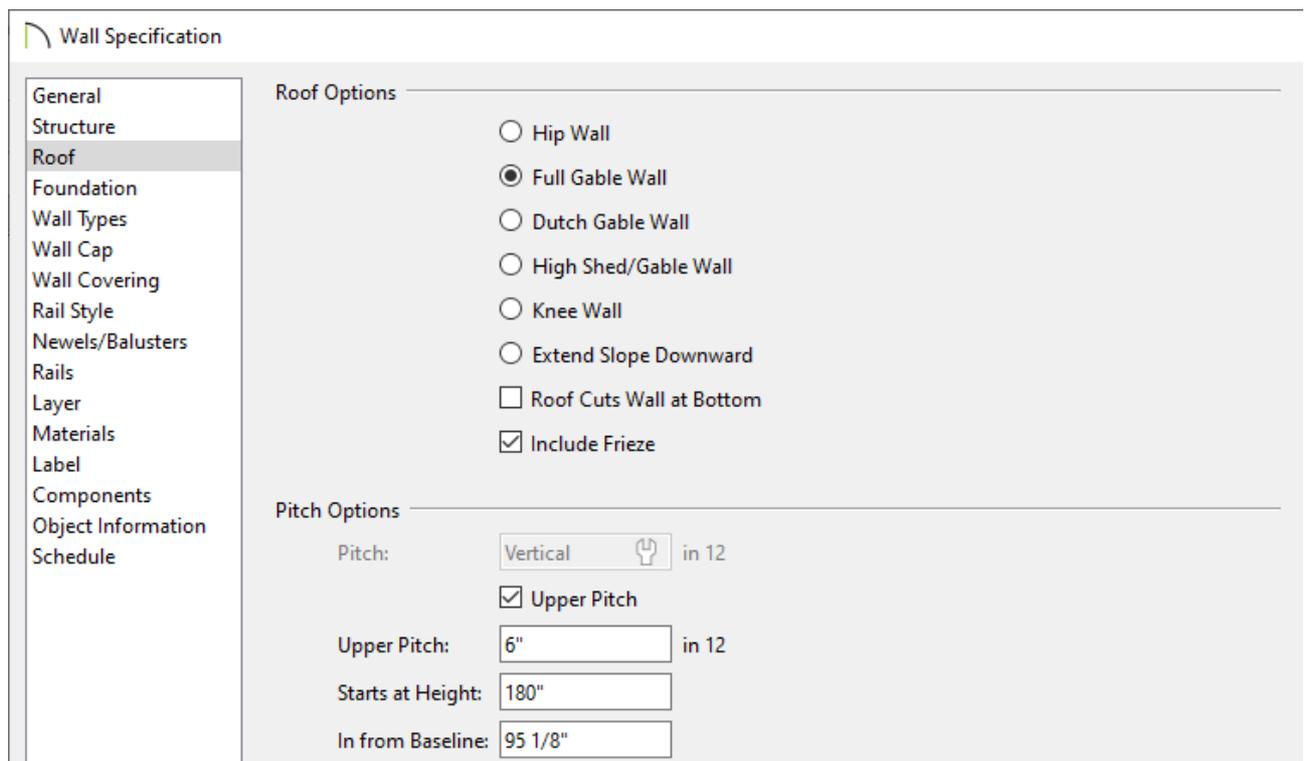
To create an automatic half-hip roof

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

In this example, a simple 30' x 40' building with 109 1/8" ceiling height is used.

2. Click on a wall that you would like to build a half-hip roof above to select it, then click the **Open Object**  edit button.

3. On the **ROOF** panel of the **Wall Specification** dialog:



The screenshot shows the 'Wall Specification' dialog box with the 'Roof' tab selected in the left-hand navigation pane. The 'Roof Options' section contains the following settings:

- Hip Wall
- Full Gable Wall
- Dutch Gable Wall
- High Shed/Gable Wall
- Knee Wall
- Extend Slope Downward
- Roof Cuts Wall at Bottom
- Include Frieze

The 'Pitch Options' section contains the following settings:

- Pitch: Vertical  in 12
- Upper Pitch
- Upper Pitch: 6" in 12
- Starts at Height: 180"
- In from Baseline: 95 1/8"

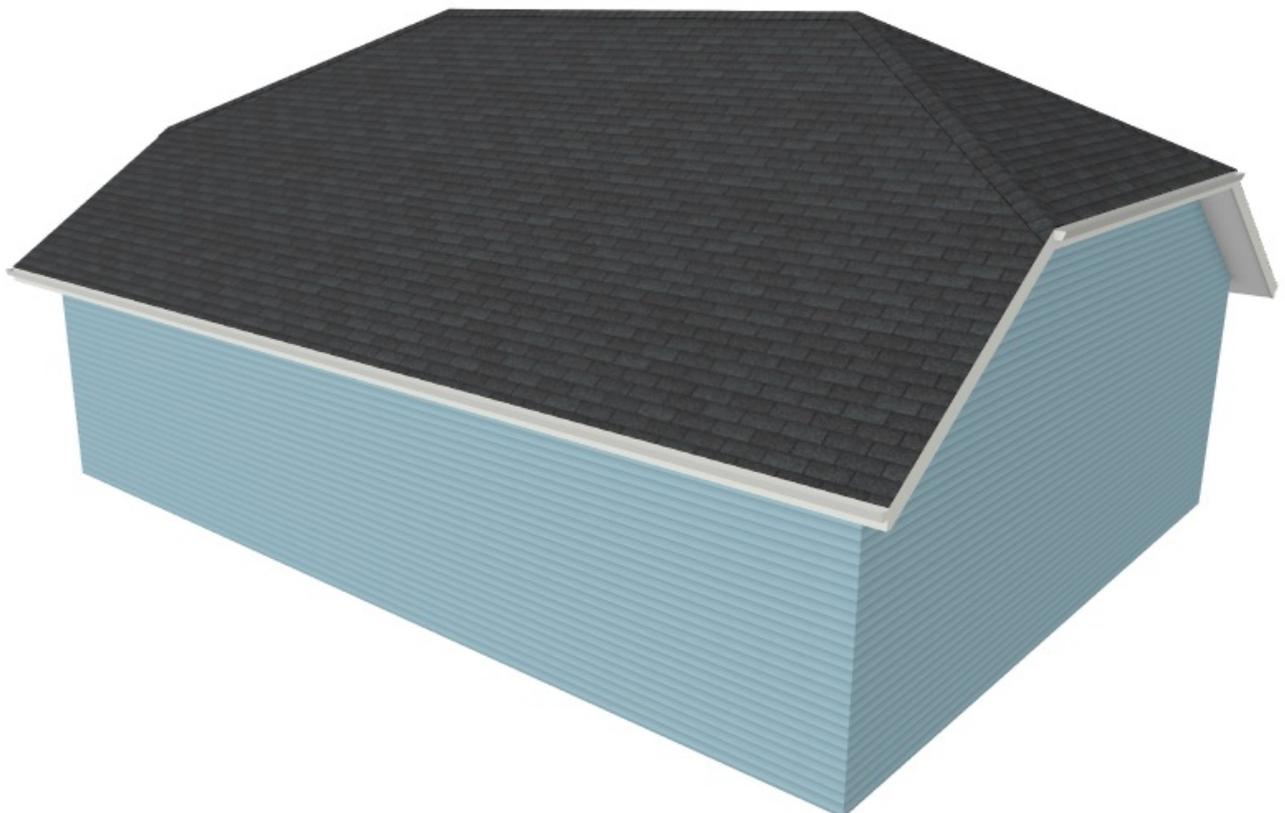
- Select **Full Gable Wall** under the Roof Options section.
- Check the **Upper pitch** box.
- There are two ways to specify where the upper pitch, which will form the half hip,

begins: **Starts at height** and **In from Baseline**.

Type a value in the **Starts at height** field to specify the height that the half hip roof plane begins at, or type a value in the **In from Baseline** field to specify the distance in from the baseline, which is found above the exterior surface of the wall's framing layer. The program will calculate the other value automatically when you press the **Tab** key.

In this example, type "180" in the **Starts at Height** field, then press the **Tab** key on your keyboard. Notice that Chief Architect calculates the **In from Baseline** figure automatically.

- Click **OK** to close the dialog and apply your changes.
4. If Auto Rebuild Roofs is not enabled, navigate to **Build> Roof> Build Roof**  from the menu to open the **Build Roof** dialog, check the **Build Roof Planes** box, then click **OK** to generate a half-hip roof.
 5. Take a **Perspective Full Overview**  to see the results.



[Automatically Creating a Saltbox Roof \(/support/article/KB-00119/automatically-creating-a-saltbox-roof.html\)](/support/article/KB-00119/automatically-creating-a-saltbox-roof.html)

[Changing the Pitch of a Single Automatic Roof Plane \(/support/article/KB-00045/changing-the-pitch-of-a-single-automatic-roof-plane.html\)](/support/article/KB-00045/changing-the-pitch-of-a-single-automatic-roof-plane.html)

[Creating a Dutch Hip Roof \(/support/article/KB-00749/creating-a-dutch-hip-roof.html\)](/support/article/KB-00749/creating-a-dutch-hip-roof.html)

[Generating Automatic Hip and Gable Roofs \(/support/article/KB-00758/generating-automatic-hip-and-gable-roofs.html\)](/support/article/KB-00758/generating-automatic-hip-and-gable-roofs.html)



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