

Automatically Creating a Saltbox Roof

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The information in this article applies to:



QUESTION



I need to create a Saltbox style roof in my Chief Architect plan where I have a long pitch roof that slopes down, which creates a single story on one side, and two stories on the other. How can I create this?





ANSWER

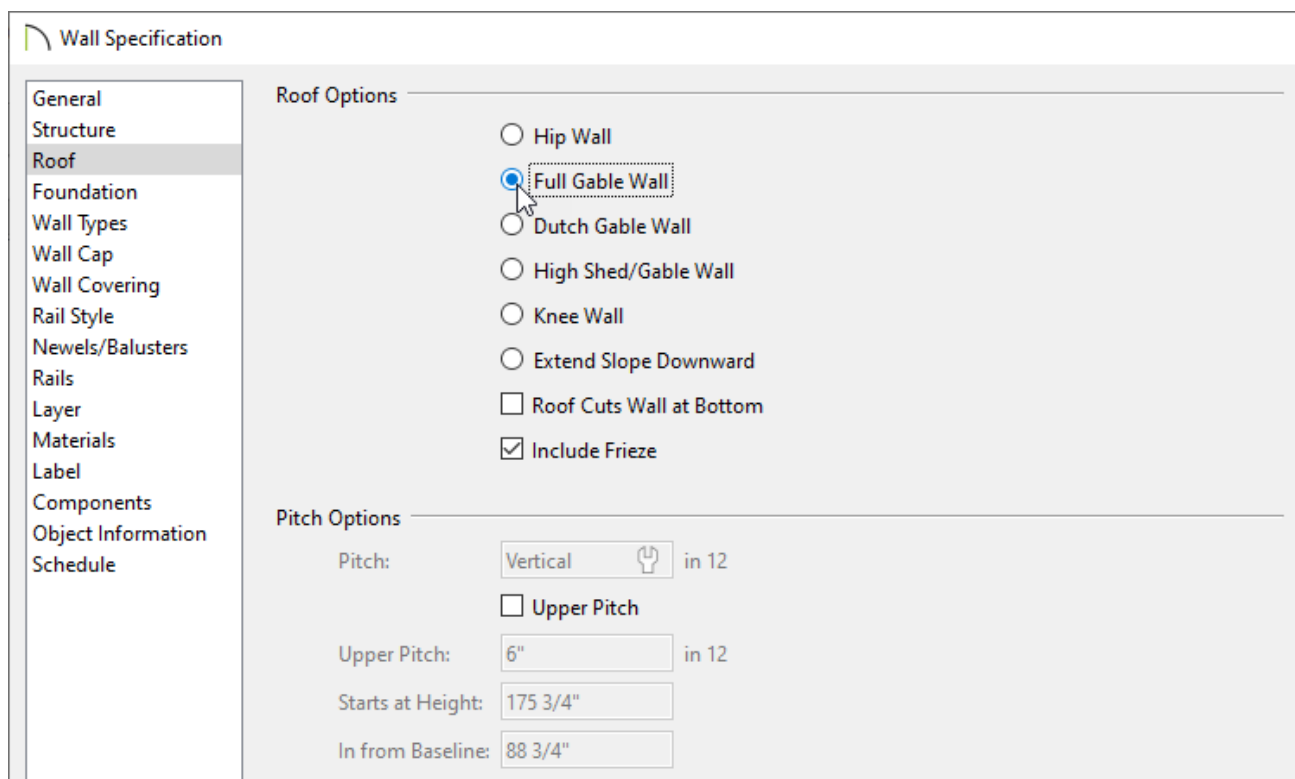
A saltbox style roof can be created automatically by generating an additional floor level and utilizing the Knee Wall setting located on the Roof panel of the Wall Specification dialog.

To create a basic salt box style of roof, follow these instructions


1. First, launch your Chief Architect software program and create a **New Plan** .
2. Navigate to **Build> Wall> Straight Exterior Wall**  and click and drag out 4 walls to create a basic 30' x 40' structure.

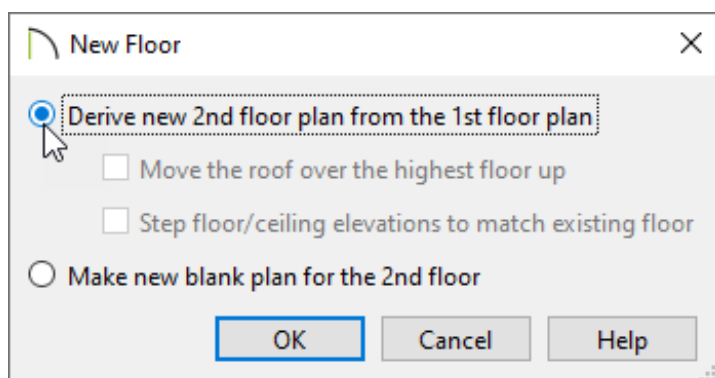


3. Use the **Select Objects**  tool to click on the left 30' wall and select the **Open Object**  edit tool.
4. On the **Roof** panel of the **Wall Specification** dialog that opens, select the **Full Gable Wall** option under the Roof Options section, then click **OK**.

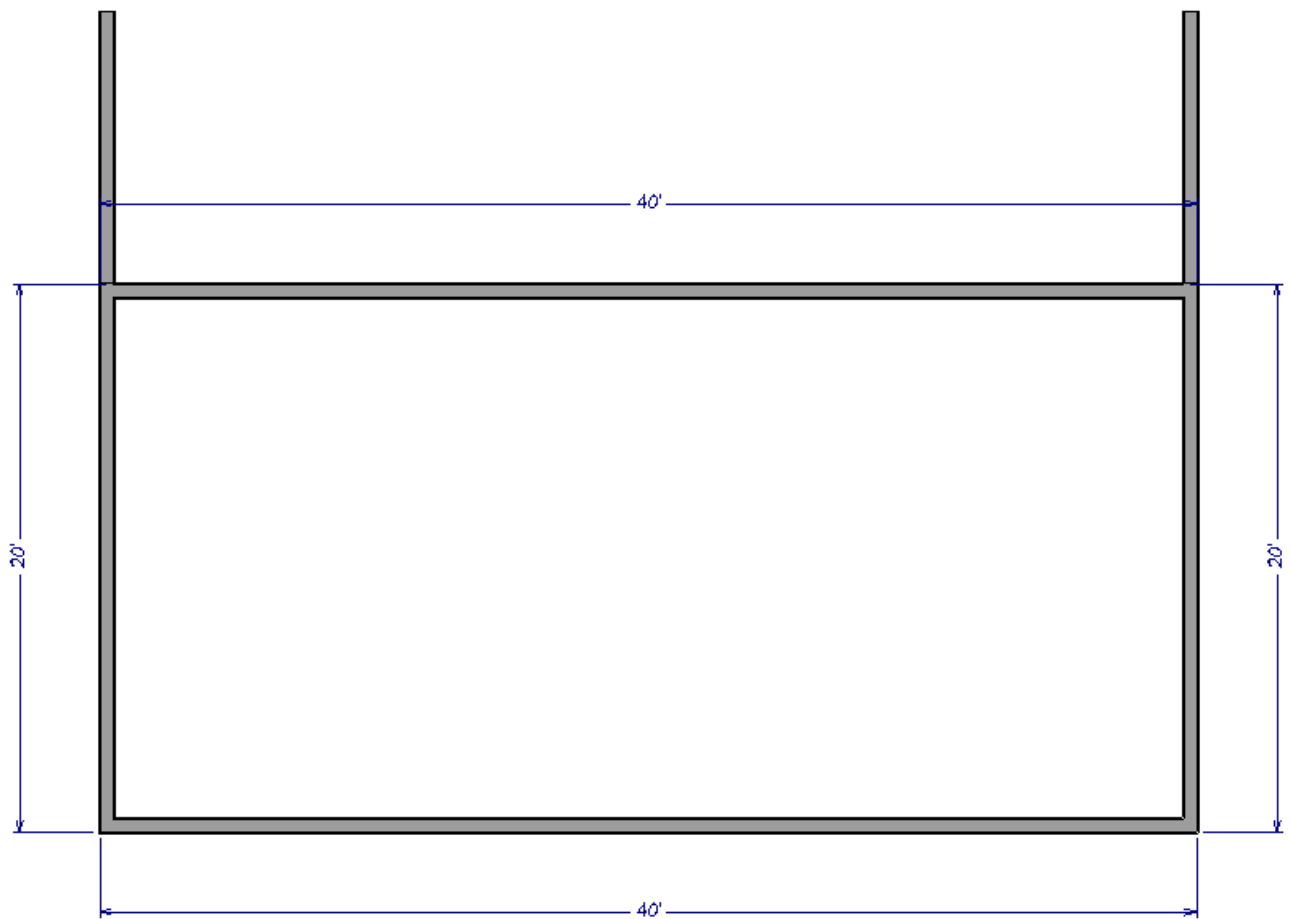



Note: You can also use the Change to Gable Wall(s) edit tool to convert hip walls to gable walls without having to open the Wall Specification dialog.

5. Repeat Steps 3 and 4 to make the opposite wall a Full Gable Wall as well.
6. Select **Build> Floor> Build New Floor** , and in the **New Floor** dialog that opens, choose to **Derive new 2nd floor plan from the 1st floor plan**, then click **OK**.



7. On the newly created 2nd floor, **Move**  the top horizontal 40' wall inwards so that its distance from the bottom horizontal wall changes from 30' to 20'



8. With this wall still selected, click the **Open Object**  edit tool.
9. On the **Roof** panel of the **Wall Specification** dialog that opens, select the **Knee Wall** option under the Roof Options section, then click **OK**.

Wall Specification

General
Structure
Roof
Foundation
Wall Types
Wall Cap
Wall Covering
Rail Style
Newels/Balusters
Rails
Layer
Materials
Label
Components
Object Information
Schedule



Roof Options

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




Pitch Options

Pitch: 8" in 12
☐ Upper Pitch
Upper Pitch: 6" in 12
Starts at Height: 305 1/2"
In from Baseline: 118 3/4"

A knee wall's height is defined by the roof above, not the ceiling height.


10. If you are not using a template that has the Auto Rebuild Roofs functionality enabled, navigate to **Build> Roof> Build Roof**  from the menu, check the **Build Roof Planes** box, then click **OK** to see the changes reflect in your plan.
11. Lastly, take a **Camera**  view to see the results.

Related Articles

-  [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 a Half-Hip Roof Automatically \(/support/article/KB-00736/generating-a-half-hip-roof-automatically.html\)](/support/article/KB-00736/generating-a-half-hip-roof-automatically.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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