Extending a Roof Plane Over a Bump-out

Reference Number: **KB-00388**

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The information in this article applies to:

PRO   ARCH   SUITE

QUESTION

I have a bump-out in my plan, and I want the roof to extend down over the bump-out. How can I accomplish this task?


ANSWER

A roof plane can extend over a bump-out. This can be done by changing the side walls of the bump-out to be Full Gable Walls and changing the front wall to use Extend Slope Downward setting.

To create a basic plan with a bump-out

1. Launch Home Designer and start a **New Plan** using the default style template.

2. Next, select **Build> Wall> Straight Exterior** wall, and create a basic structure with a bump-out, as shown in the image below.
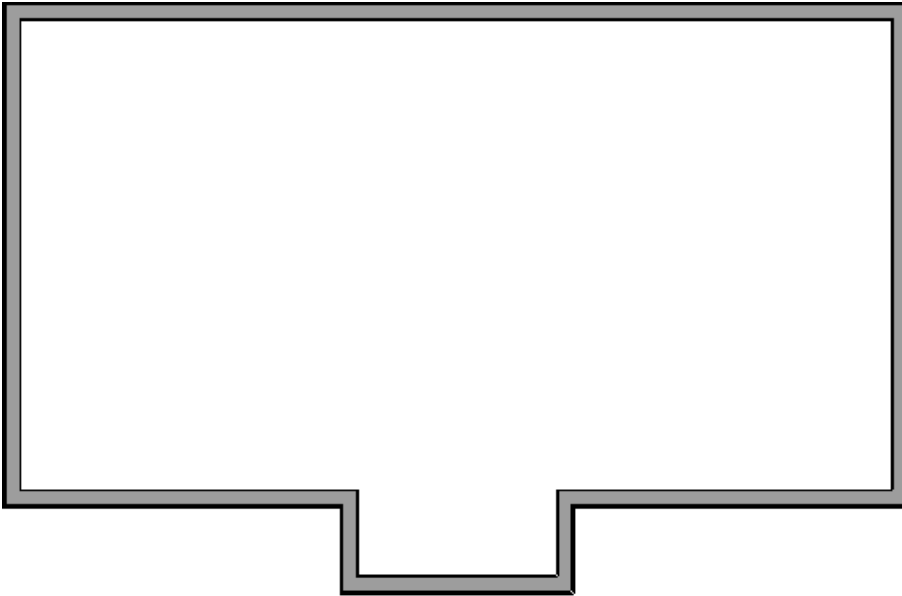

3. If the Auto Rebuild Roofs setting is not enabled, select **Build> Roof> Build Roof** from the menu, then click **OK**.

   In Home Designer Pro, make sure to check the **Build Roof Planes** box before clicking **OK**.

4. Select **3D> Create Camera View> Perspective Full Overview** .

   In Home Designer Pro, navigate to **3D> Create Perspective View> Perspective Full Overview** instead.

   As we can see in the image below, the resulting roof is a hip over the bump-out area.
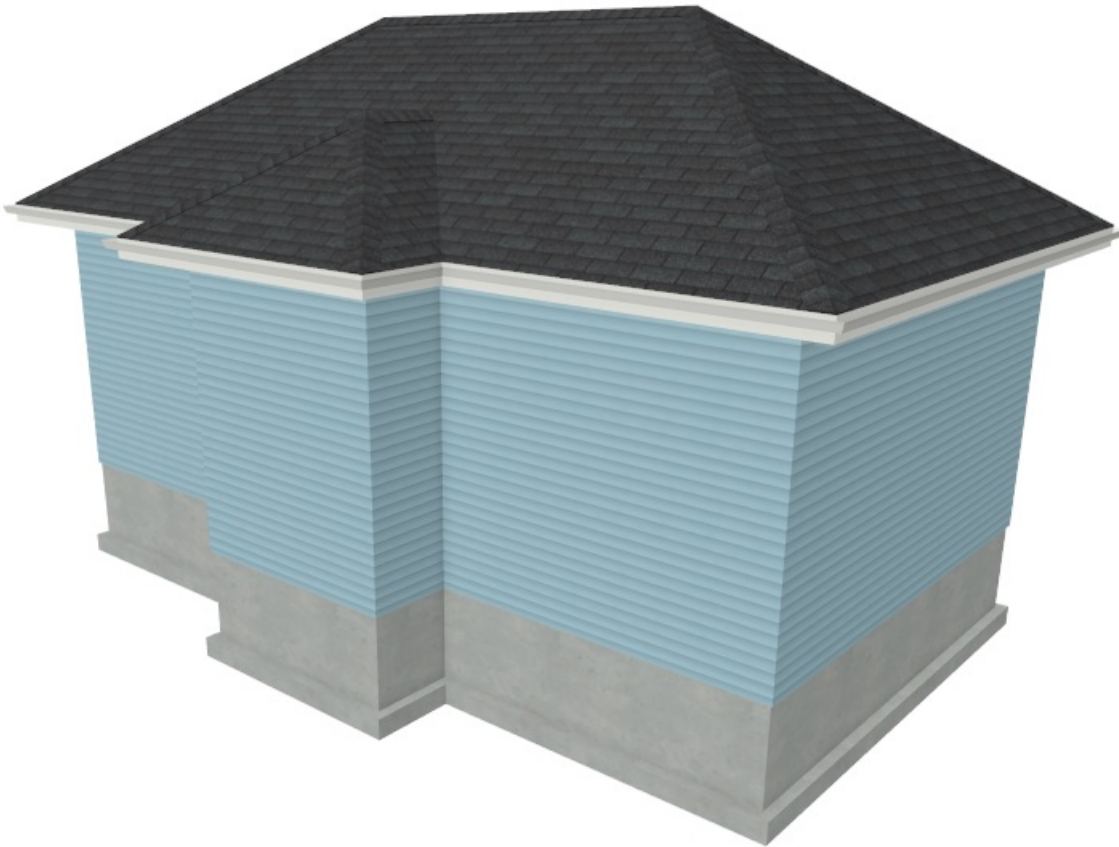
5. Select **File> Close View** to close the camera view and return to your floor plan.

To extend a roof plane down over a bump-out

1. Using the **Select Objects** ⬚ tool, select the front wall of the bump-out, then click the **Open Object** ⬚ edit button.

2. On the Roof panel of the **Wall Specification** dialog that opens, select **Extend Slope Downward** to extend the main structure's existing roof plane downward over the bump-out, instead of creating additional roof planes.

Wall Specification

General
Roof
Materials

Roof Options
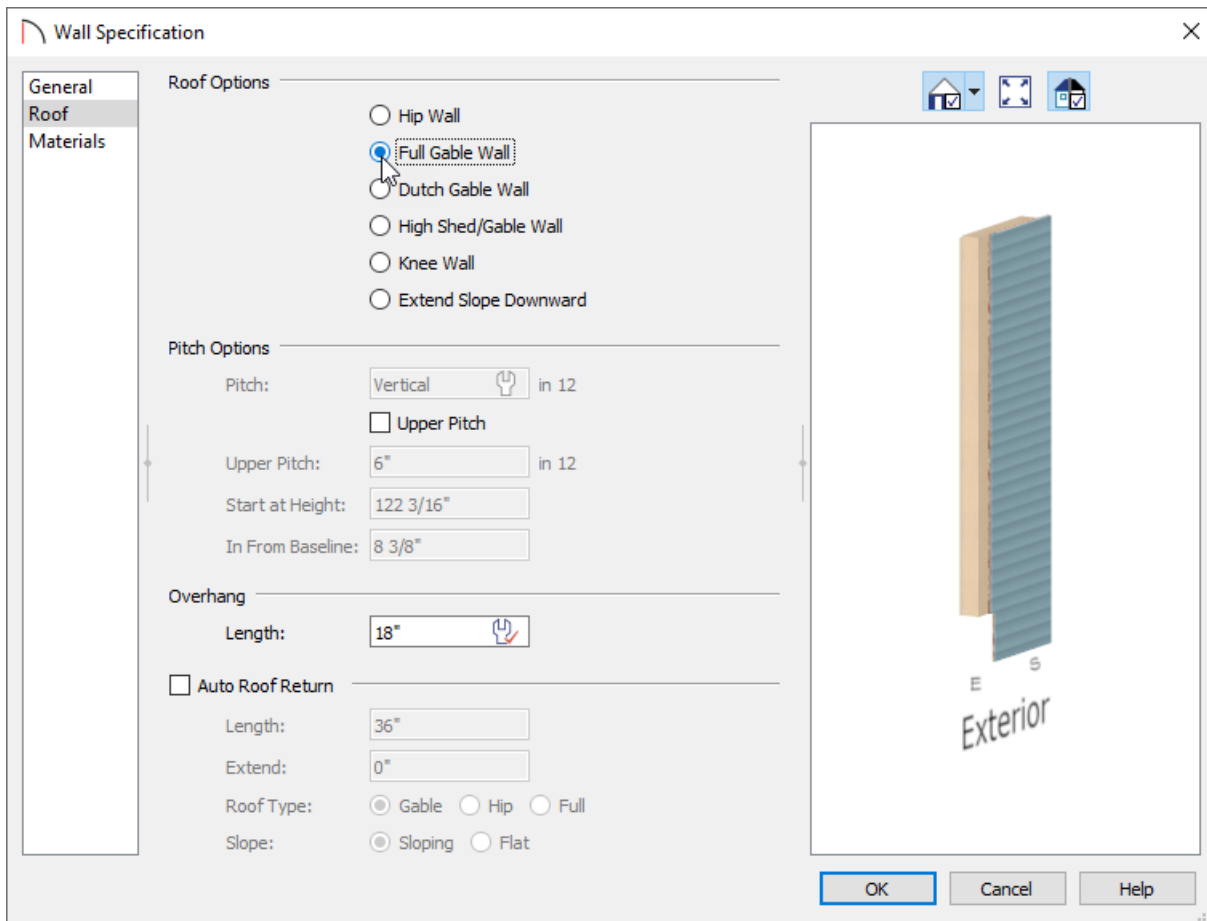- ○ Hip Wall
- ○ Full Gable Wall
- ○ Dutch Gable Wall
- ○ High Shed/Gable Wall
- ○ Knee Wall
- ● Extend Slope Downward

Pitch Options

Pitch: 8" in 12

☐ Upper Pitch

Upper Pitch: 6" in 12

Start at Height: 130 9/16"

In From Baseline: 21"

Overhang

Length: 18"

☐ **Auto Roof Return**

Length: 36"

Extend: 0"

Roof Type: ● Gable ○ Hip ○ Full

Slope: ● Sloping ○ Flat

OK   Cancel   Help

3. Click **OK**.

4. Next, both of the two connecting walls that create the bump-out must be labeled as **Full Gable Walls**, as shown in the image below.

Wall Specification

Roof Options
- ○ Hip Wall
- ◉ Full Gable Wall
- ○ Dutch Gable Wall
- ○ High Shed/Gable Wall
- ○ Knee Wall
- ○ Extend Slope Downward

Pitch Options

Pitch: Vertical   in 12

☐ Upper Pitch

Upper Pitch: 6"   in 12
Start at Height: 122 3/16"
In From Baseline: 8 3/8"

Overhang

Length: 18"

☐ Auto Roof Return
Length: 36"
Extend: 0"
Roof Type: ◉ Gable ○ Hip ○ Full
Slope: ◉ Sloping ○ Flat

Exterior

OK   Cancel   Help

5. If the Auto Rebuild Roofs setting is not enabled, select **Build> Roof> Build Roof** ⌂ from the menu, then click **OK**.

   In Home Designer Pro, make sure to check the **Build Roof Planes** box before clicking **OK**.

6. Select **3D> Create Camera View> Perspective Full Overview** 🏠 to see the results.

   In Home Designer Pro, navigate to **3D> Create Perspective View> Perspective Full Overview** 🏠 instead.
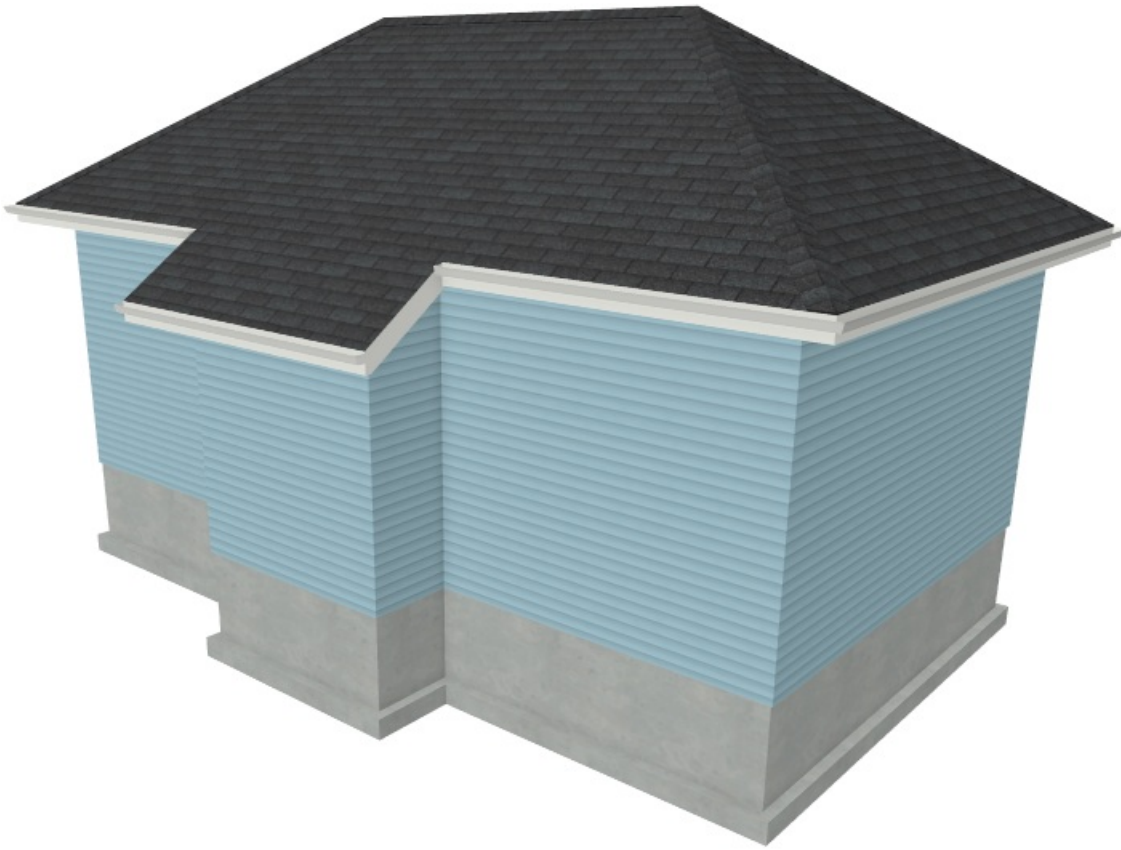
Now that you understand this process, you can take this knowledge and apply it to your own designs.

Related Articles

📄 Automatically Building the Basic Roof Styles (/support/article/KB-00359/automatically-building-the-basic-roof-styles.html)