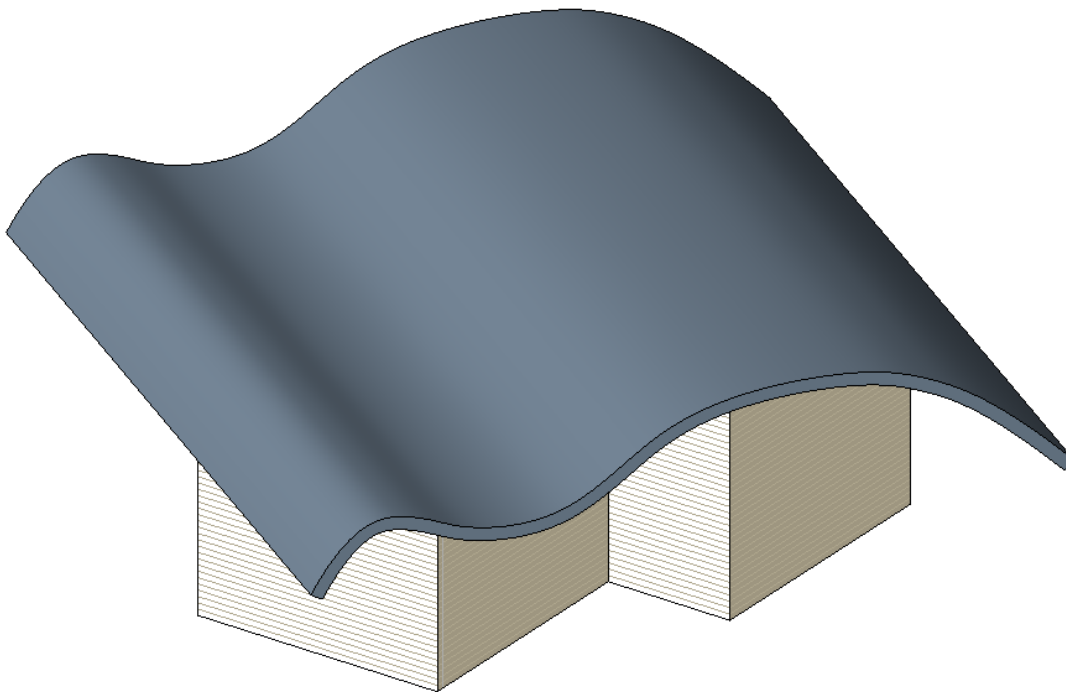

Autodesk Products Tip & Tricks

Product: Revit Architecture 2009
Topic: Manipulating a Roof's Cut Plan Profile
Written by: Nick Bower, Assoc. AIA BSD Technical Engineer
Date: November 25, 2008

A Tool that is often overlooked when designing roofs in Revit Architecture 2009 is the Cut Plan Profile. This tool will allow you to control the footprint of a complex roof from a mass or by extrusion.



Autodesk Products Tip & Tricks

You can start to manipulate the roof by selecting it in a floor plan view and clicking on the Cut Plan Profile icon on the Options Bar (Figure 1).

Cut Plan Profile

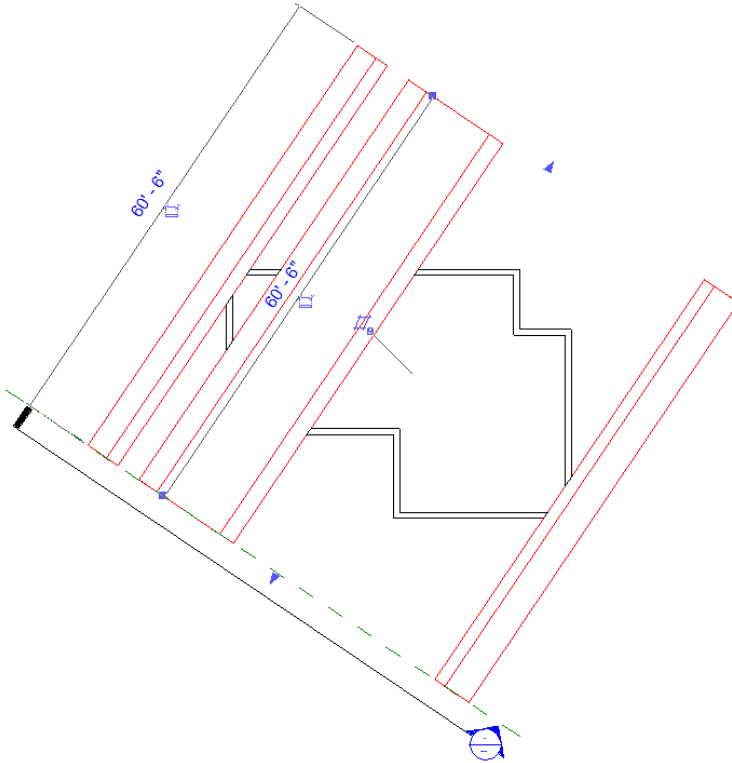


Figure 1

After clicking on the Cut Plan Profile icon, you will be taken out to sketch mode. From here, you will need to draw in two continuous closed loops. One loop represents the overall cutting edge of the plan profile. This loop should extend past the furthest extents of the roof shape. The second loop should be used to control the overhang of the roof. In Figure 2, the overhang was set to be 1'-6".

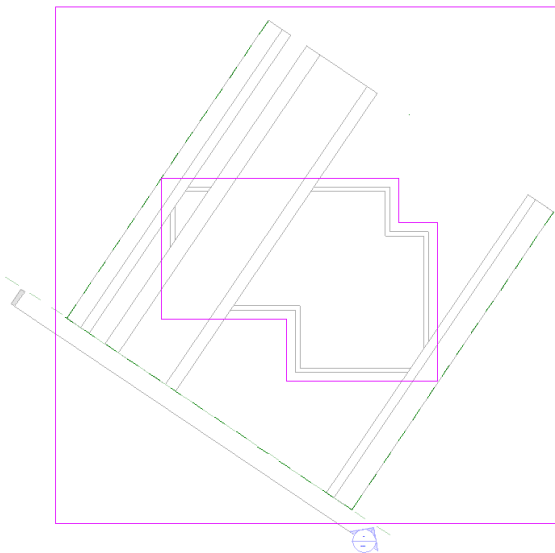


Figure 2

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After finishing the sketch you will see the footprint of the roof has been changed to correspond with the boundaries that were just drawn (Figure 3). This is also the case if you switch to a 3D view (Figure 4).

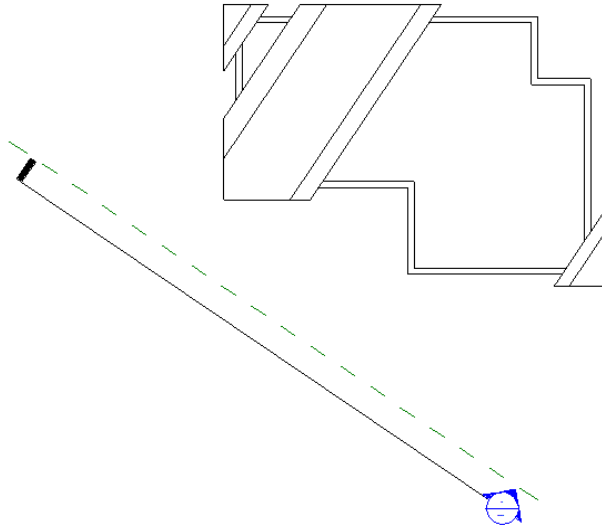


Figure 3

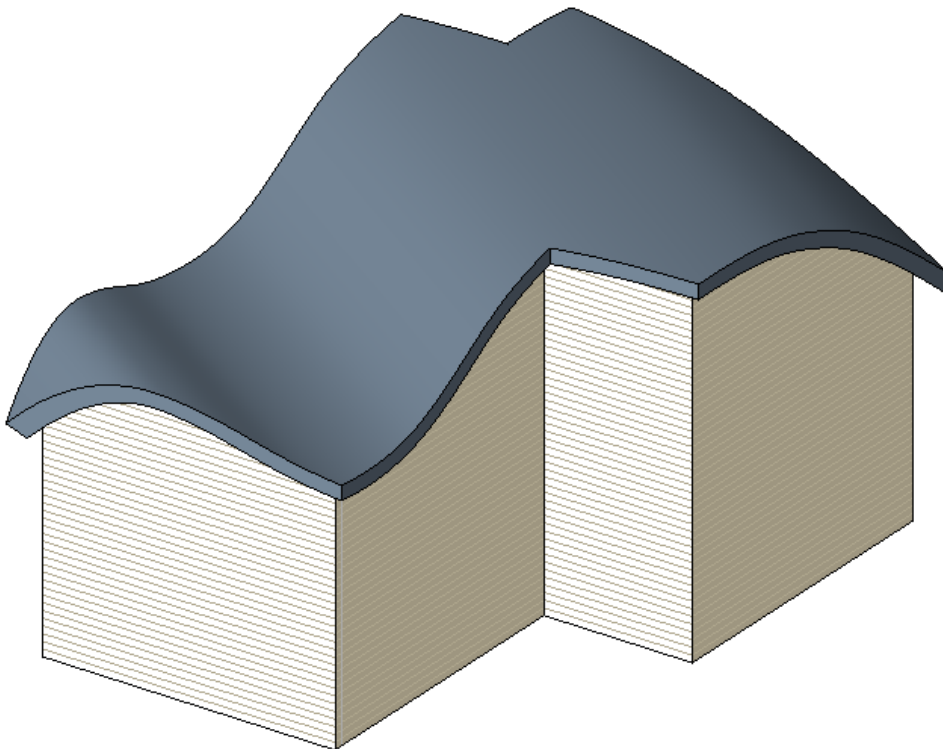


Figure 4