

Please Note: If you're new to Revit, you may be interested in my "[Beginner's Guide to Revit Architecture](#)" **84 part**

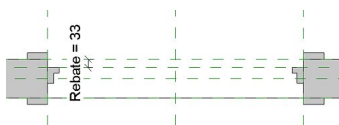
video tutorial training course

. The course is 100% free with no catches or exclusions. You don't even need to sign-up. Just enjoy the course and drop me line if you found it useful. The [full course itinerary can be viewed here](#)

Welcome to the **third** part in this series of articles in which we explain **how to create your own Door Family**

using the Family Editor, in Revit Architecture. If you have missed the previous parts in this series,

[you may wish to start here](#)



In this article we are going to create the **door frame** and **architrave** for our door family. We will add some more

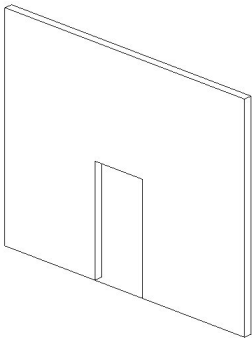
Planes

Reference

to

control the **solid geometry** that we are going to create. And we will also add some **Parameters** to control one of the dimensions of our door frame.

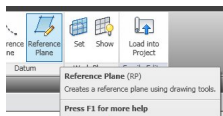
So where did we leave off in the previous article? Well, we just go as far as taking a look at the stock Metric Door template and deleting the included architraves. Here's what we have at this stage....



So let's start right away with our door frame. For the purposes of this exercise I'm going to keep this very simple, with regards the technical detail of the frame. This is all about learning some important Revit concepts- and not about how to produce sound joinery details!

What I want to do is set my door frame back from the exterior face of the wall. And I want to be able to vary this distance from within the Project Environment- ie once my door family is actually placed in a Revit Wall. So I need some way to control this set-back (or “rebate”). To do this I’m going to use a “Length” parameter, a dimension and a new Reference Plane. I’ll walk you through this step-by-step as there are some VERY important concepts going on here- concepts that you will use time and again in your Family Creation process.

First of all let’s create our new Reference Plane. Simple select the Reference Plane tool from the “Home” menu.....



And then draw a “horizontal” Reference Plane in the Plan view- draw it some distance back from the Exterior face of the Wall- the exact distance is unimportant as we are going to control it with a parameter anyway. Here is my new Reference Plane.....

Doors: Creating your own Door Family: Part 3

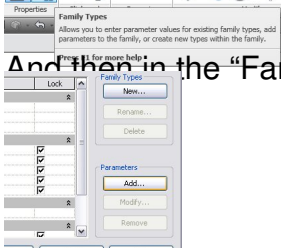
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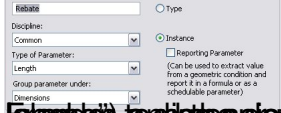
Reference Plane is highlighted in blue. This is the reference plane for the "Face of Frame" parameter.



Click on the "Family Types" button to control the rebate of this Reference Plane. Go ahead and



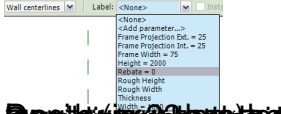
And then in the "Family Types" control panel, click on "Add..." next to "Parameters"....



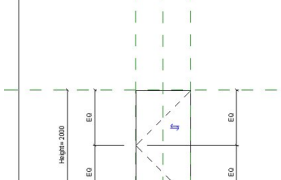
Under the "Name" field, type "Face of Frame" (or a name of your choice). Parameter type is set to "Length".



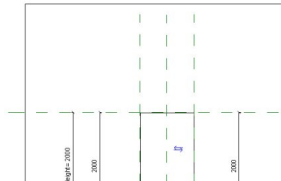
With the "Face of Frame" parameter selected, click on the "Reference Plane" button in the Properties panel.



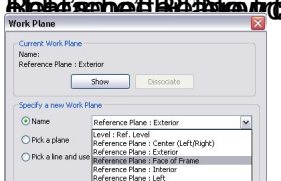
Click on the "Reference Plane" button in the Properties panel. This will set the reference plane to the "Face of Frame" parameter.



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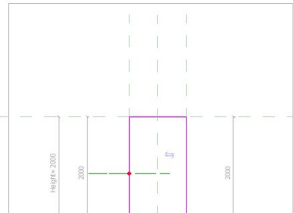
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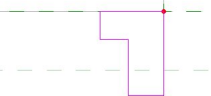
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Doors: Creating your own Door Family: Part 3

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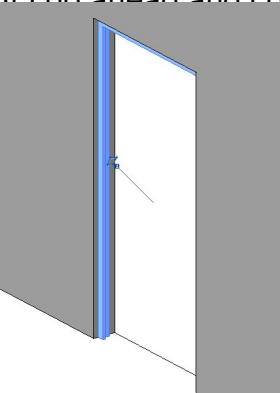
With the Profile tool, I create the door frame sketch. Profile shape plane is the



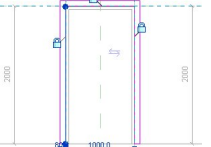
And if I zoom out you can see the sketched profile in the context of the door opening...



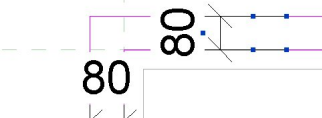
If I go ahead and complete my Sweep, the door frame is formed....



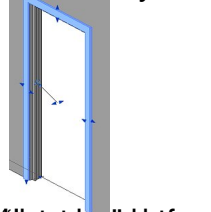
NOTE: When creating the door frame, I use the Profile tool. The Profile tool is used to create the door frame.



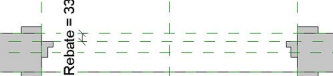
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