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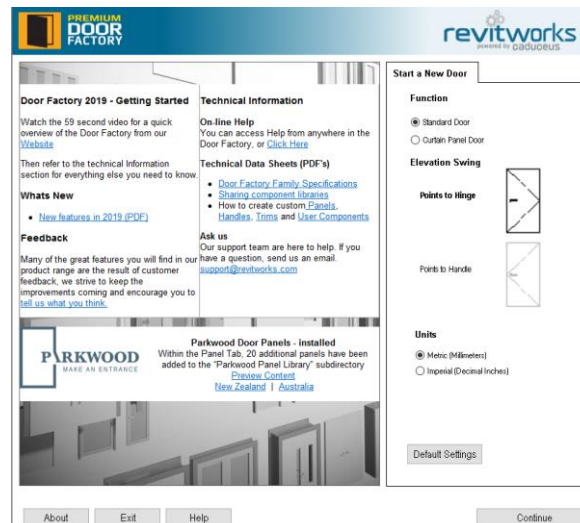
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17th October 2018

How to use the Parkwood Panels within Revit doors

The easiest way of using the Parkwood Panels within Revit is to use either the **free** RevitWorks Door Factory Preview add-in which creates single and double hinge doors, or the RevitWorks Door Factory Premium add-in; both available from the [RevitWorks Door Factory Webpage](#). Just ensure you are using the latest version (check the “About” button) and all the panels will be available.

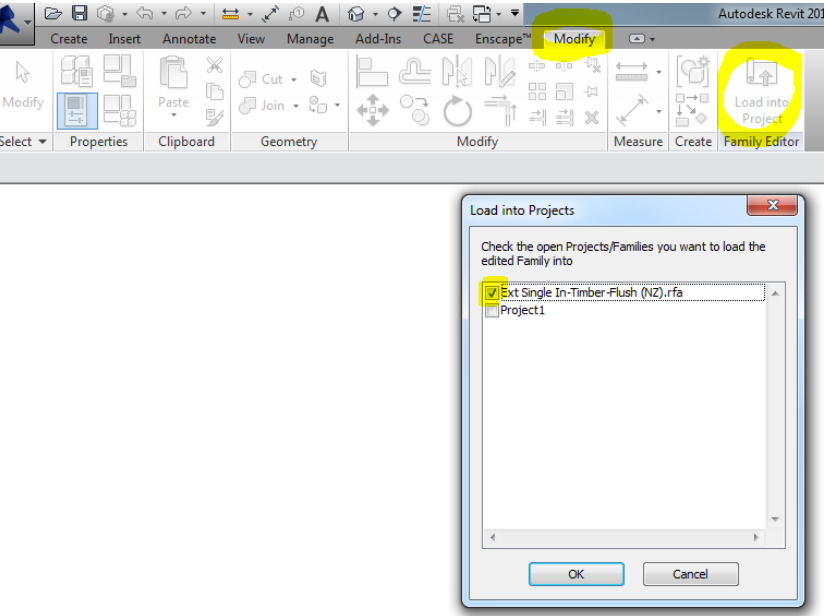


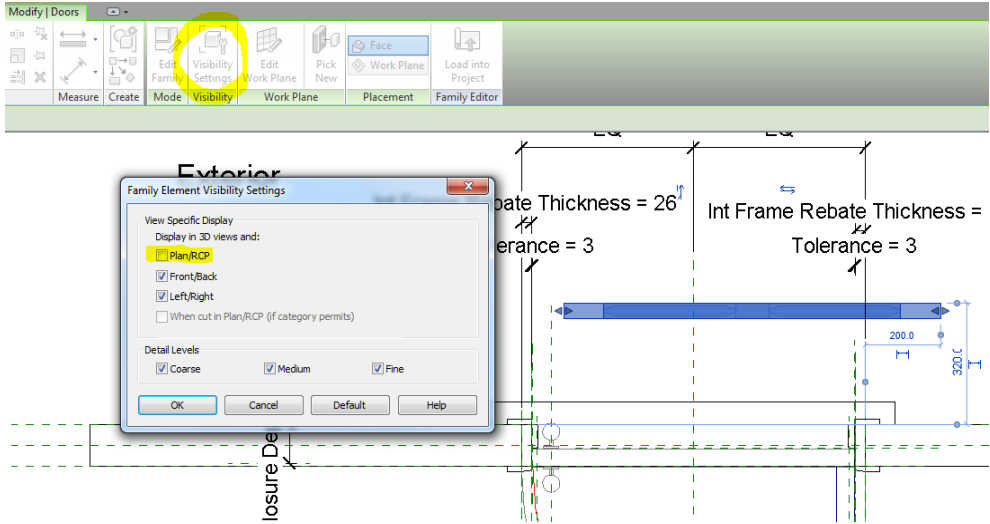
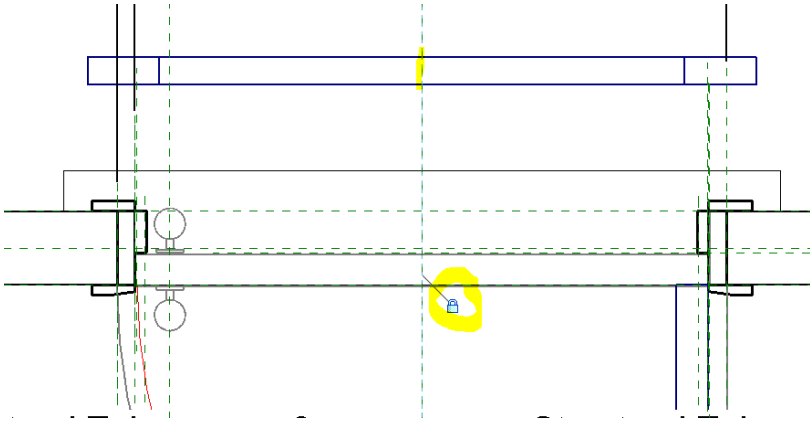
The following procedure is for Revit users who are either using Revit LT, (which doesn't allow for add-ins), users who do not want to use the free add-in, or users who need to insert the Parkwood Panels into existing doors already created by other methods.

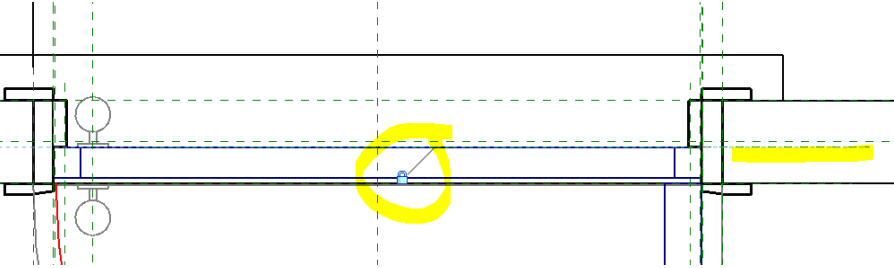
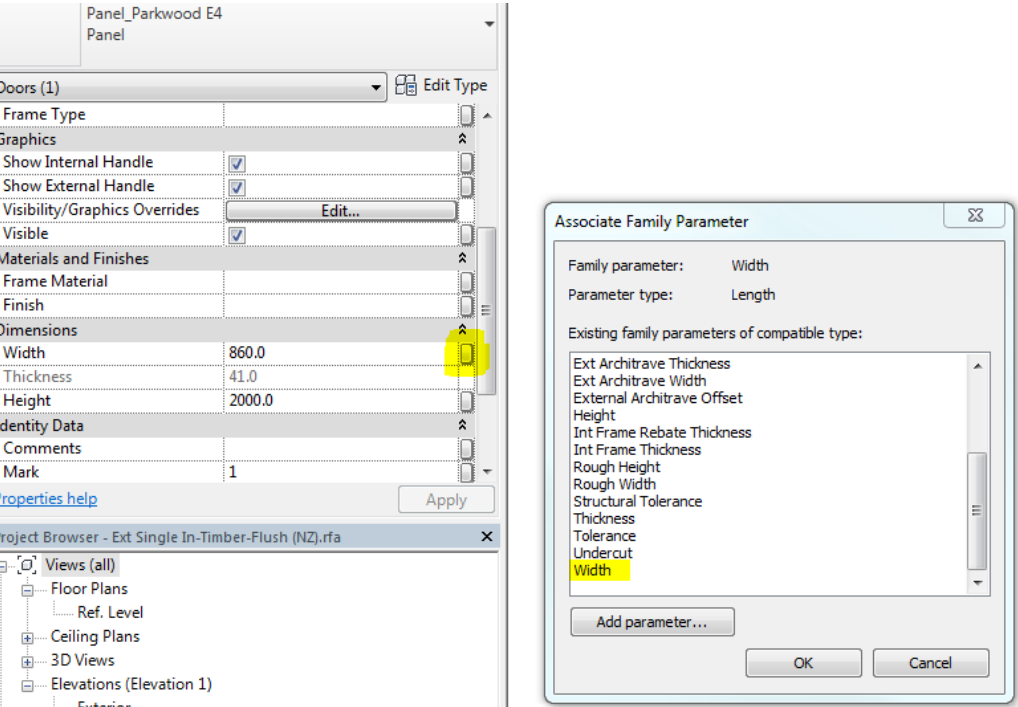
The procedure assumes a working knowledge of the Revit Family Editor; it shows the procedure required when using the out-of-the-box NZ content Revit door “Ext Single In-Timber-Flush (NZ).rfa”.

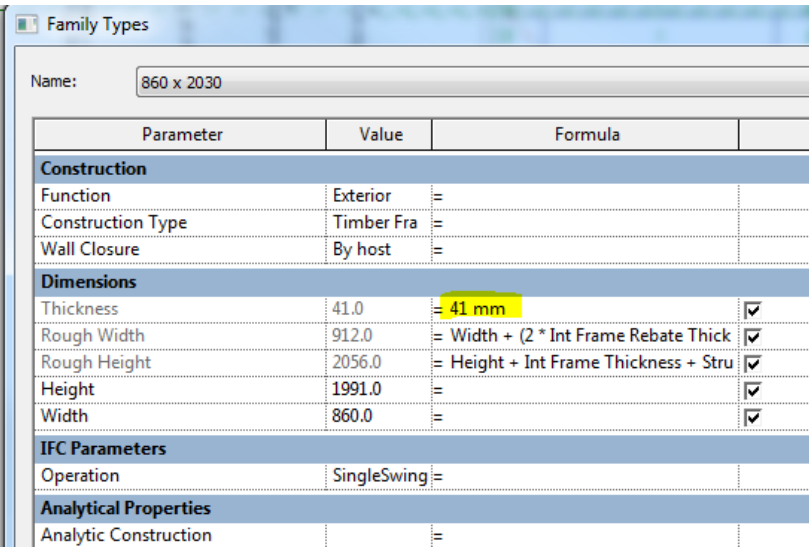

For other doors, the procedure may vary slightly, but the concept remains the same.

From within Revit:

#	Item	Notes/ Explanation
1.	Open your existing door within Revit.	
2.	Open up your Parkwood Panel within Revit and Modify/Load into Project, ensuring you select your existing door.	
3.	Select the existing panel within your existing door and delete it.	
4.	In the Ref.Level plan view, Create/Component and place the Parkwood Panel (Place on Work Plane) close to the existing door.	

#	Item	Notes/ Explanation
5.	Select the Parkwood Panel and change its visibility so it is not visible in plan.	
6.	Using the Modify/Align tool, align the vertical centre of the Parkwood Panel with the centre left/right ref. plane and lock into place using the padlock.	

#	Item	Notes/ Explanation
7.	Locate the Ref plane in the family that designates the exterior face of the panel. Using the modify/align tool as above, align the exterior face of the panel to this ref plane (you may need to <tab> until you have the correct Ref plane selected)	
8.	<p>Go to a 3d view (for ease of selection), select the Parkwood Panel and associate through the following instance parameters:</p> <p>Width Height Panel to Base Gap</p> <p>through to their relevant parameters in the door. (in this example to: Width Height Undercut)</p>	

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9.	Associate the Parkwood Panel type material parameters as well. If there are no material parameters in the existing doors, create them to allow changes within your projects.																																																													
10.	Select your Parkwood Panel and look at its properties: Check its "Thickness" parameter and change the family type parameter to match by putting the value into the formula column (to allow no user changes).	 <table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> <th>Formula</th> <th></th> </tr> </thead> <tbody> <tr> <td colspan="4">Construction</td> </tr> <tr> <td>Function</td> <td>Exterior</td> <td>=</td> <td></td> </tr> <tr> <td>Construction Type</td> <td>Timber Fra</td> <td>=</td> <td></td> </tr> <tr> <td>Wall Closure</td> <td>By host</td> <td>=</td> <td></td> </tr> <tr> <td colspan="4">Dimensions</td> </tr> <tr> <td>Thickness</td> <td>41.0</td> <td>= 41 mm</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Rough Width</td> <td>912.0</td> <td>= Width + (2 * Int Frame Rebate Thick</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Rough Height</td> <td>2056.0</td> <td>= Height + Int Frame Thickness + Stru</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Height</td> <td>1991.0</td> <td>=</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Width</td> <td>860.0</td> <td>=</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td colspan="4">IFC Parameters</td> </tr> <tr> <td>Operation</td> <td>SingleSwing</td> <td>=</td> <td></td> </tr> <tr> <td colspan="4">Analytical Properties</td> </tr> <tr> <td>Analytic Construction</td> <td></td> <td>=</td> <td></td> </tr> </tbody> </table>	Parameter	Value	Formula		Construction				Function	Exterior	=		Construction Type	Timber Fra	=		Wall Closure	By host	=		Dimensions				Thickness	41.0	= 41 mm	<input checked="" type="checkbox"/>	Rough Width	912.0	= Width + (2 * Int Frame Rebate Thick	<input checked="" type="checkbox"/>	Rough Height	2056.0	= Height + Int Frame Thickness + Stru	<input checked="" type="checkbox"/>	Height	1991.0	=	<input checked="" type="checkbox"/>	Width	860.0	=	<input checked="" type="checkbox"/>	IFC Parameters				Operation	SingleSwing	=		Analytical Properties				Analytic Construction		=	
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11.	Check your door by flexing it within the family (i.e. change the width and height parameter values). Once all working properly, Saveas your family as a new Parkwood panel door family.																																																													

(finish)

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