



## Session 1.2

# Filters Always Win, and Other Ways to Be Better at Revit

Luke Johnson, Virtual Built Pty Ltd

### Class Description

There is a big difference between a Revit user, and someone who has really **mastered** the software. The more you learn, the faster you get, the more you can learn! In this session, we will cover topics like:

- Productivity Improvement through User interface tips and Keyboard shortcuts
- View filters and View templates
- Free addins
- Some Dynamo
- And More...

### About the Speaker:

I am an Autodesk Expert Elite, Construction BIM Manager, BIM Technology Leader, experienced Architectural technician, Dynamo developer, 3D modeller and Revit Specialist. More recently I have combined my Construction and Documentation knowledge with my Technical expertise, working with General Contractors performing BIM Management, Design Management, Shop Drawing Management, and Coordination and Clash Detection roles on a number of significant projects.





### How to Get the Most Out of This Session

There are plenty of ways to do things in Revit... but we are looking for the fastest and best way. We want to maximise productivity and quality.

**Targeting 'Expert'** users so we will move quickly in general.

A lot of productivity gains come from user interface and shortcuts. Save 2 seconds every time, it all adds up quickly.

**Try to take a few things away with you today  
that will save you time each and every day**

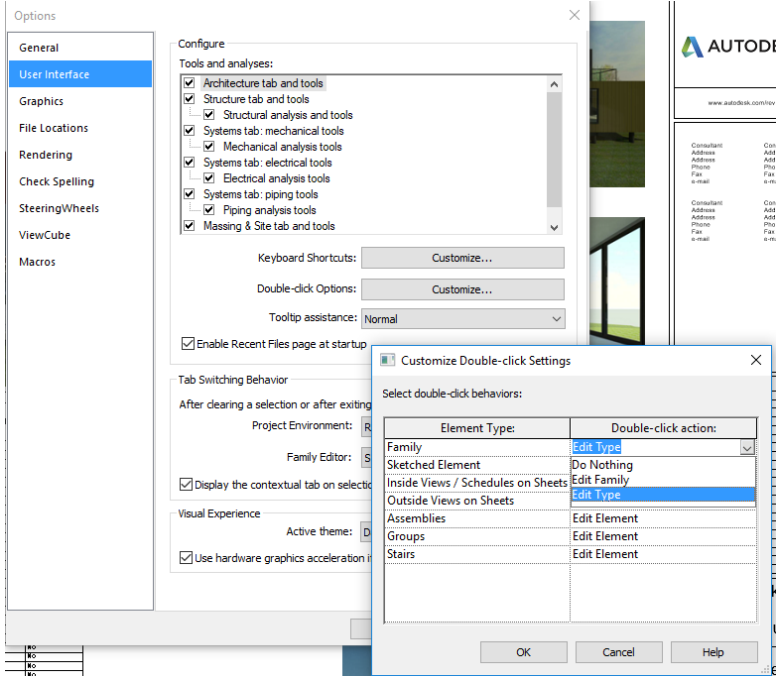
We will separate our tips and workflows into these major categories:

- **Productivity** – faster ways of doing things
- **Workflows** – better or alternative ways of doing things
- **Management** – ways to better manage the Revit model

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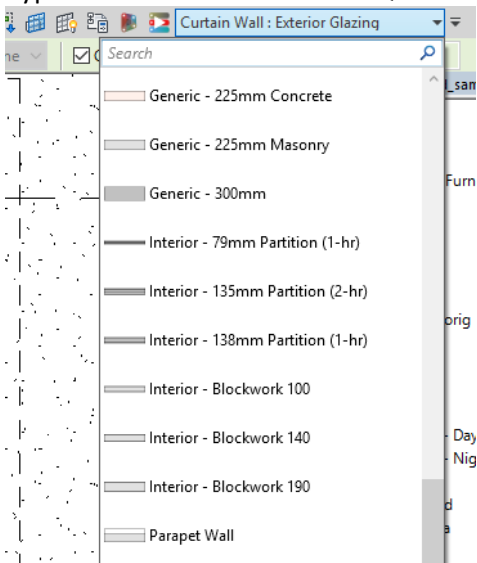
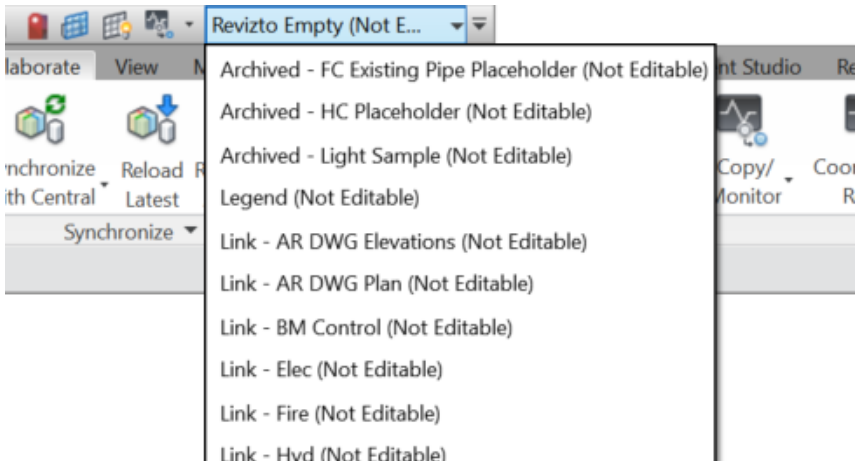


Workflow Category	Revit Item	Details	Demo ?
	<b>UI Settings</b>	<b>Setting Up Revit UI for Maximum Productivity</b>	
		<p><b>Lab Note:</b> Please open Revit, and open the <a href="#">rac_advanced_sample_project.rvt</a></p> <p>Please import the supplied <a href="#">KeyboardShortcuts.xml</a></p>	
Productivity	Double-click	<p>In Revit Options, change default for Family to Edit Type:</p>  <p>Try double-clicking on a Door now.</p>	Y
Productivity	Double-click	Double clicking a Wall will automatically start the Edit Profile command	
Productivity	UI - QAT	<p>Showing below the ribbon will allow you to add more tools. <b>Do this now.</b></p> <p>Certain Revit tools should always live on the QAT. <b>Add them now:</b></p> <ul style="list-style-type: none"> <li>• The Revit built in auto section box tool (since 2016)</li> <li>• Save and Load Selection</li> <li>• Set and Show Workplane - for quick 3D modelling</li> <li>• Manage Links</li> <li>• Dynamo</li> <li>• Dynamo Player</li> </ul>	Y

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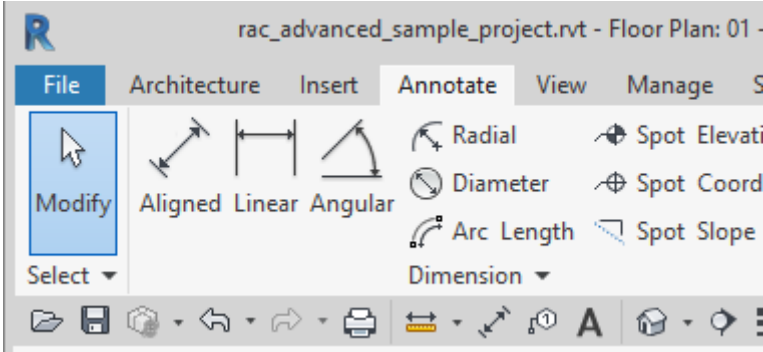
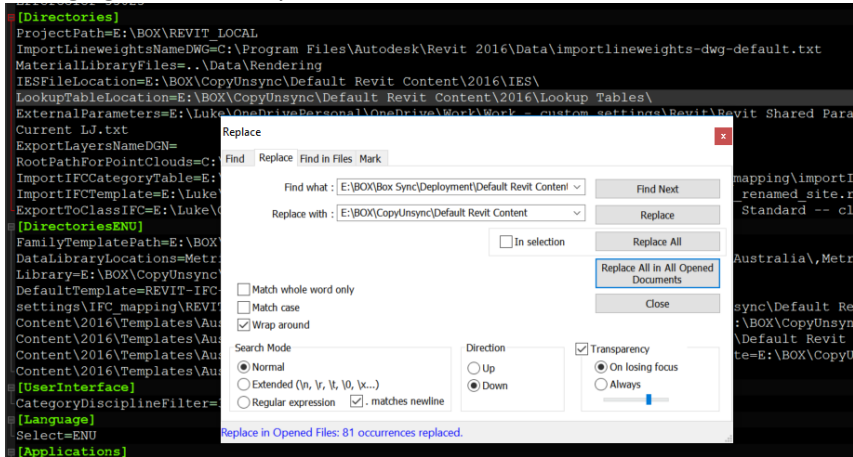


Workflow Category	Revit Item	Details	Demo ?
Productivity	UI - QAT	<p>If you have a reasonable size screen, you could add somewhere around 20 buttons to the Quick Access Toolbar.</p> <p>Some other easy productivity gains:</p> <ul style="list-style-type: none"> <li>Align (but should really be a keyboard shortcut)</li> <li>External Tools – NWC Export</li> <li>Revitlookup,</li> </ul> <p>My main workstation (2016):</p> 	
Productivity	UI - QAT	<p>Type Selector can be added to QAT:</p>  <p>Workset Chooser can also be added to QAT:</p> 	

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Workflow Category	Revit Item	Details	Demo ?
Productivity	UI - Ribbon	<p>Ribbon</p> <p>Re arranging ribbon menus</p> <p>Hold down Ctrl and set it up like this:</p>  <p>Panels:</p> <ul style="list-style-type: none"> <li>Undocking</li> <li>Possible to set up tool palette on other monitor?</li> <li>Re-docking back in place</li> </ul>	Y
Management	Content Locations	<p>Changing the home of your Revit content with NotePad++ and revit.ini</p> 	

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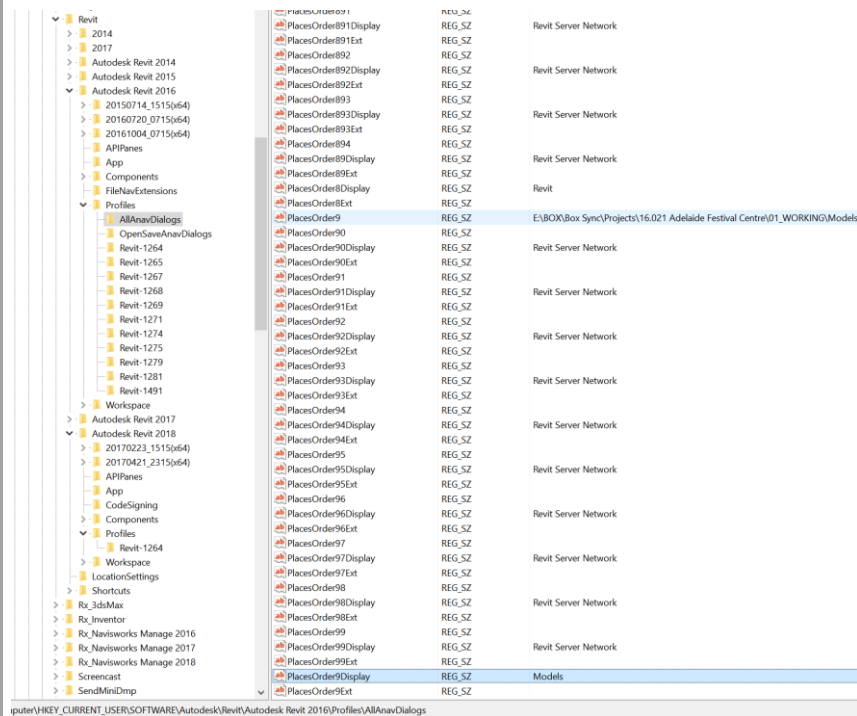


### Management

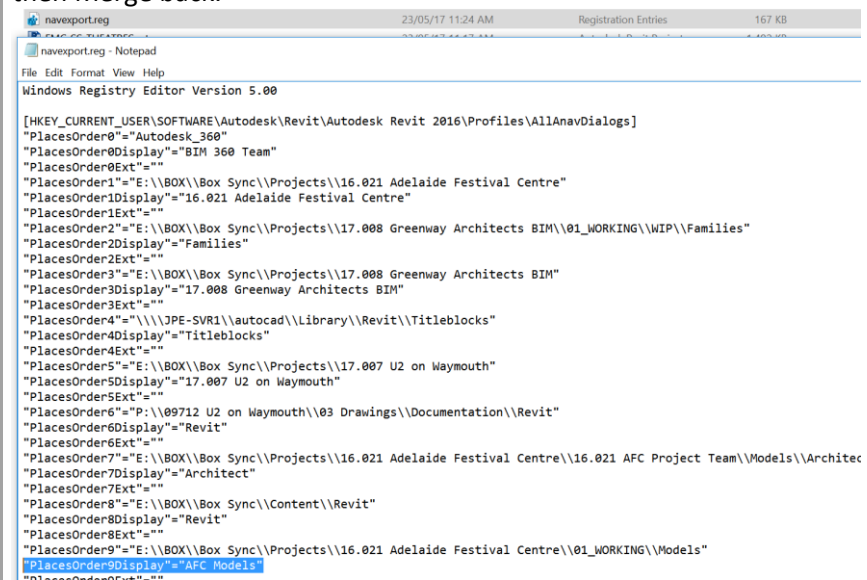
Places List in  
Open / Save  
Dialog

You need to find the PlacesOrderXDisplay value for a given entry...  
In this Registry key:

[HKEY\_CURRENT\_USER\SOFTWARE\Autodesk\Revit\Autodesk Revit  
2016\Profiles\AllAnavDialogs]



Easiest way is to export that AllAnavDialogs to .reg file, edit in Notepad,  
then Merge back.



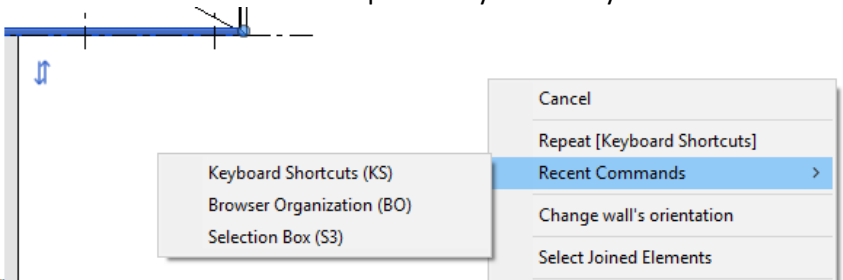
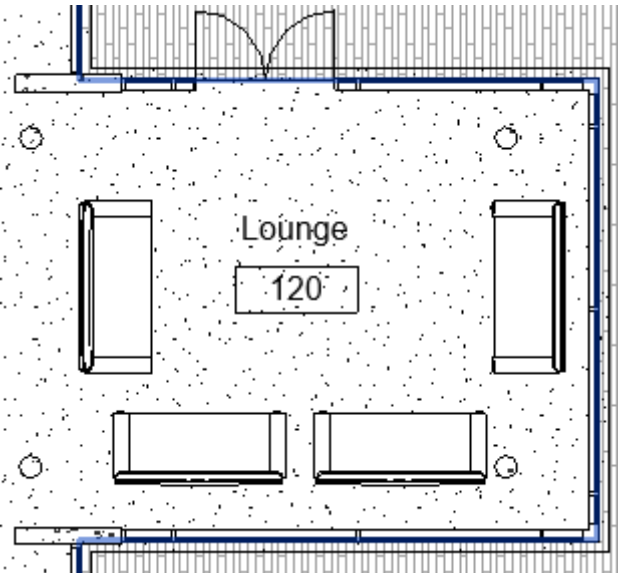
Effect will be immediate in Revit.

[Link](#)

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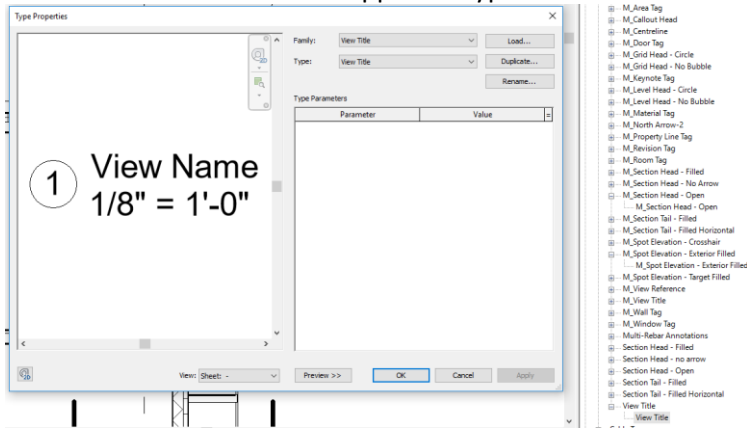


Workflow Category	Revit Item	Details	Demo ?
		<p><b>Lab Note:</b> Please close and re-open Revit to commit the changes to UI (in case of a crash later)</p> <p>Open the <a href="#">rac_advanced_sample_project.rvt</a></p> <p>Navigate to 01 - Entry Level - Furniture Layout</p> <p>Place some Furniture in the Lounge</p>	
	<b>UI Shortcuts</b>		
Productivity	UI	<p>Right-click- Repeat</p> <p>Right-click- Recent Commands !</p> <p>Recent commands will also help 'teach' you the Keyboard Shortcuts:</p> 	Y
Productivity	UI	<p>Right-click Create Similar</p> <p>I use this a lot – you usually have a similar object floating around and it makes sense to start the creation tool directly from that element</p>	Y
			

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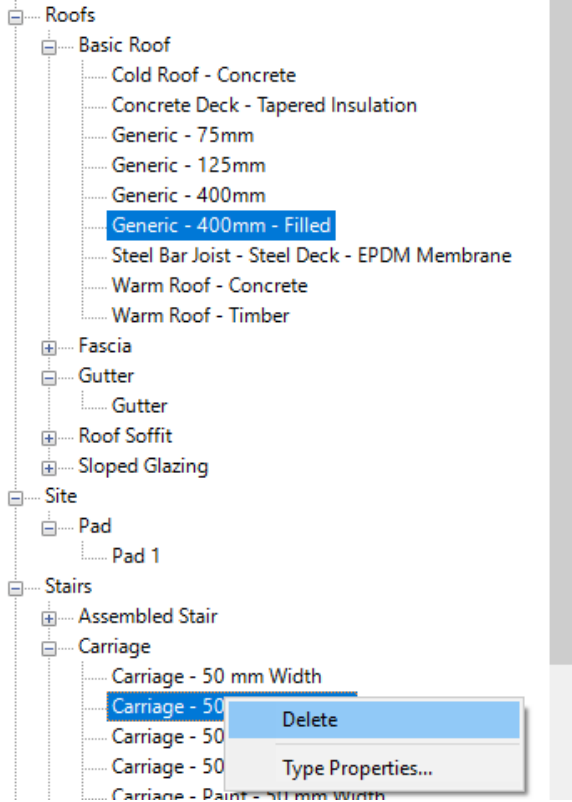
Workflow Category	Revit Item	Details	Demo ?
Productivity	UI	<p>Right click to get to Properties and Browsers – You can turn System and Project Browsers on and off quickly</p> <p>Try turning PB and Properties on and off with right-click</p> <p>Even inside the PB, you can switch Properties on and off</p> <p>Good for minimal screen real estate</p>	Y
	<b>Project Browser</b>		
Productivity	Project Browser	If we use the Project Browser effectively, we will be better and faster at Revit	
Productivity	Project Browser	<p>Use Project Browser Search – always</p> <p>Switch to Site view</p> <p>Search for shrub in the Project Browser</p> <p>Place some more Planting around the carpark</p> <p>Keyboard shortcut: try pressing Q for Move</p>	
Productivity	UI	<p>Right-click on a Type in the PB to get to Type Properties...</p> <p>Try it for a shrub type</p> <p>Edit the Height</p> <p>Remember: we can double-click on the shrub to jump to type properties</p> <p>Also notice the Preview for supported types!</p>  <p>Click Preview button next to a Shrub type to try it</p> <p>Surprising how many families are supported with this...</p>	



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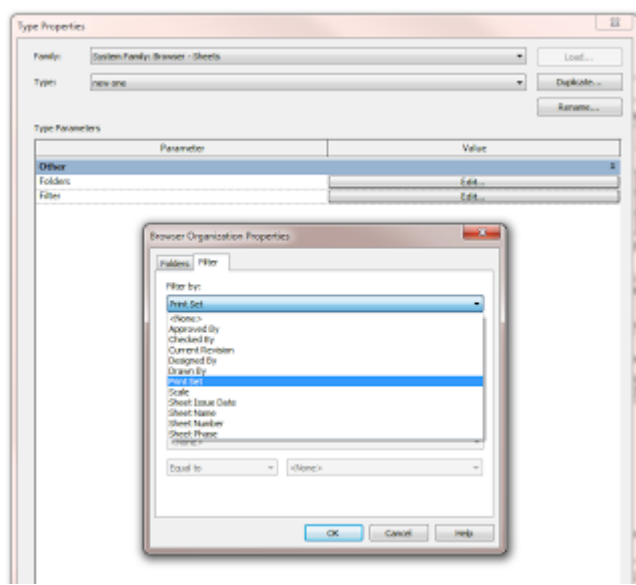


Workflow Category	Revit Item	Details	Demo ?
Productivity	UI	<p>Right-click on multiple Types to Delete them all at once:</p>  <p>Try selecting Roof - Steel Bar Joist - Steel Deck - EPDM Membrane And Stair – Carriage - Carriage - Paint - 50 mm Width And deleting both types at once</p>	Y

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Workflow Category	Revit Item	Details	Demo ?
Management	Project Browser	<p>You can Filter Sheets in the Project Browser by the “Print Set” – that is, by saved sheet selection.</p>  <p>The image shows two overlapping Revit dialog boxes. The background box is 'Type Properties' for the 'Custom Family: Browser - Sheets' family, with the 'Type' set to 'new one'. The 'Type Parameters' table shows 'Other' as the active parameter. The foreground box is 'Browser Organization Properties', with the 'Filter by:' dropdown set to 'Print Set'. A list of filter options is visible, including 'Print Set', 'Approved By', 'Checked By', 'Current Revision', 'Designed By', 'Drawn By', 'Scale', 'Sheet Issue Date', 'Sheet Name', 'Sheet Number', 'Sheet Phase', and 'User'. The 'Equal to' field is set to '&lt;None&gt;'. Buttons for 'OK', 'Cancel', and 'Help' are at the bottom.</p> <p>Type BO to start Browser Organisation without mouse Change Sheets to By Set Check how that works Click OK Change back to All</p>	

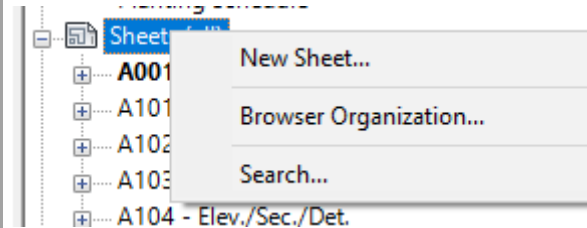
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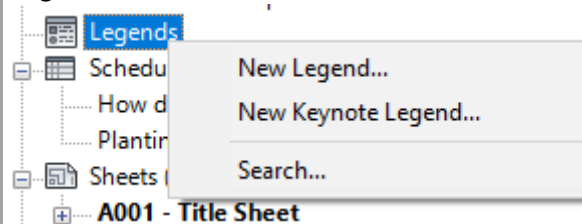
Productivity

Project Browser

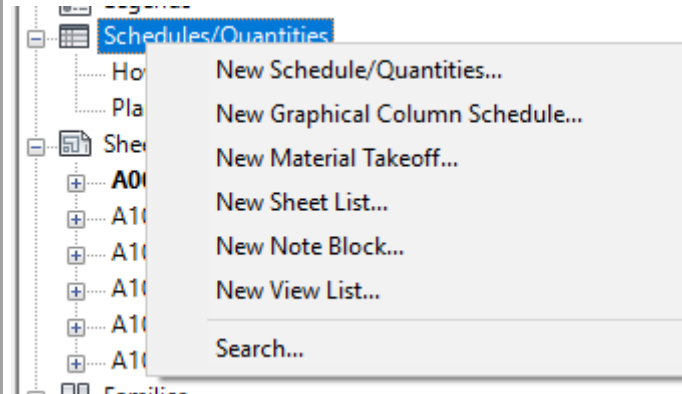
Right-click for multiple 'new' commands  
Sheet:



Legends:

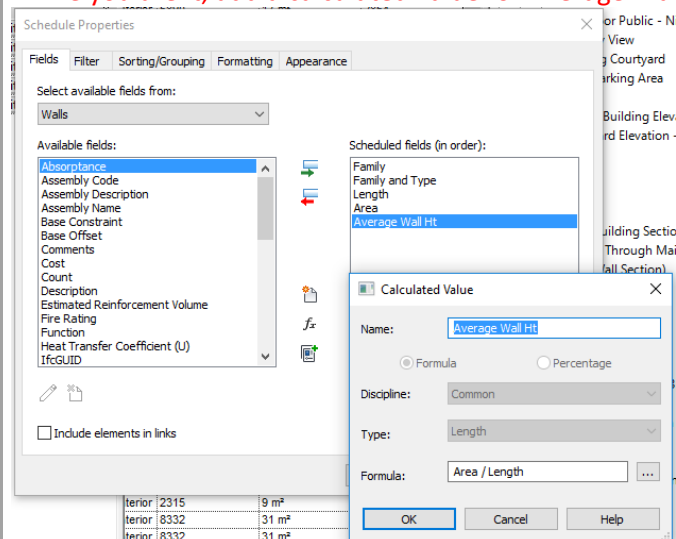


Schedules:



Make a new Wall Schedule with this method

While you are it, add a calculated value for Average Wall Ht like this:



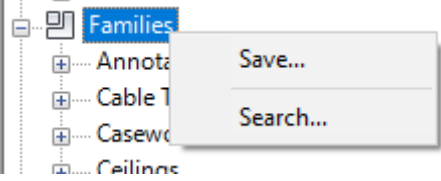
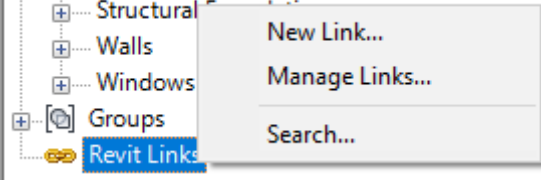
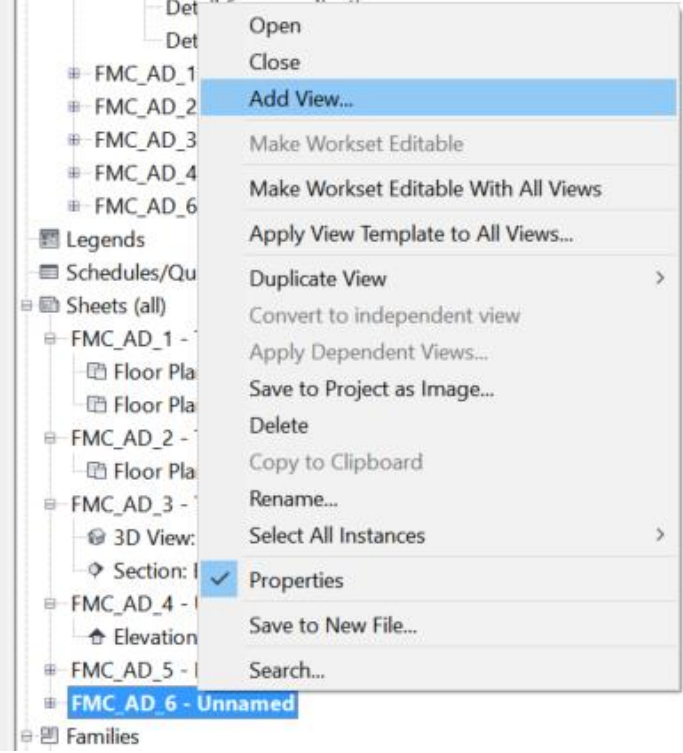
Then pick one of the Walls and Highlight in Model

Y

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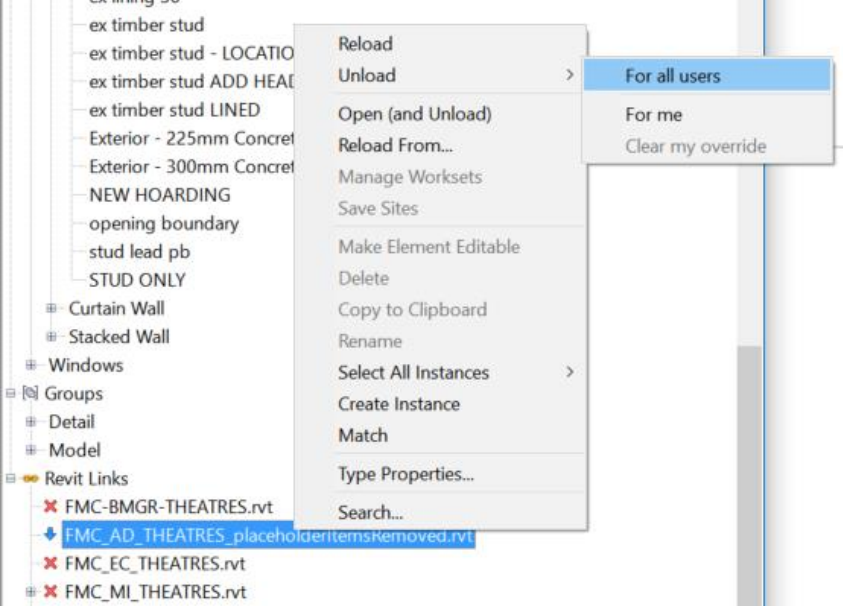


Workflow Category	Revit Item	Details	Demo ?
		<p>Then immediately pick the Section Box tool from the QAT</p> <p>The Set Workplane to the wall (QAT)</p> <p>Add dimension (QAT)</p> <p>To verify the schedule results</p>	
Productivity	Project Browser	<p>Right-click Families node to Save All Families:</p> 	Y
Productivity	Project Browser	<p>Right-click Revit Links for New Link and Manage Links:</p> 	Y
Productivity	Project Browser	<p>Right-click a Sheet to Add a view:</p>  <p>Make a new A1 sheet with right-click in the PB</p> <p>Add View</p> <p>Add newly created Wall Schedule – will be too big</p>	Y

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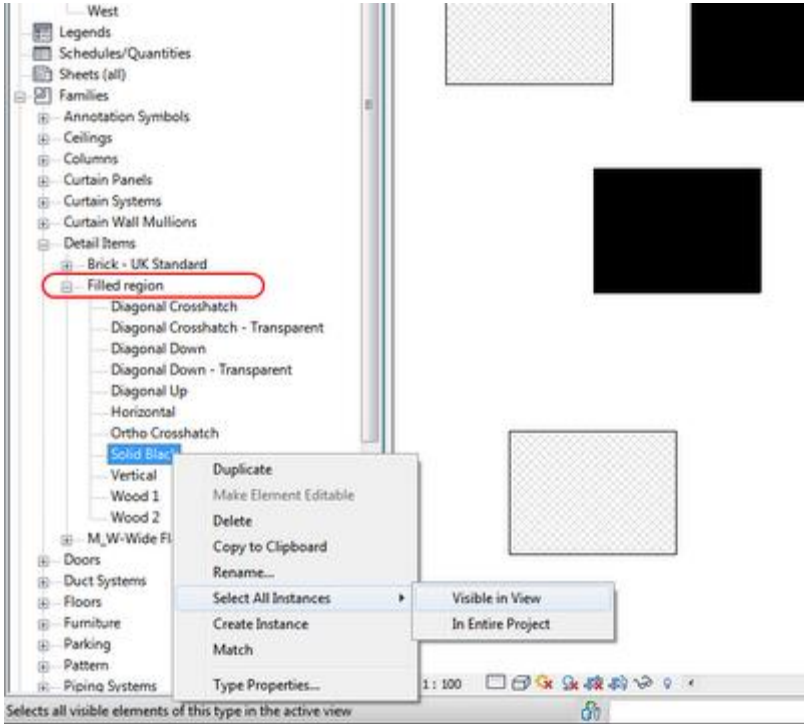


Workflow Category	Revit Item	Details	Demo ?
Productivity	Project Browser	<p>Each Link: You can Unload for yourself or everyone from the Project Browser:</p> 	

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Workflow Category	Revit Item	Details	Demo ?
Workflow	Selection	<p>Did you know that the Project Browser <b>Families</b> node provides access to more than just traditional component families?</p> <p>You can use the Project Browser to quickly select different types of Filled Regions:</p>  <p>Select All Instances of Concrete filled region  There should be 1  But where is it? In a workshared project we would see the view workset.  Go to Add-ins  Revit Lookup – snoop current selection  Find the OwnerViewId  Copy the Name  Use Search in Project Browser  Found it!</p>	Y

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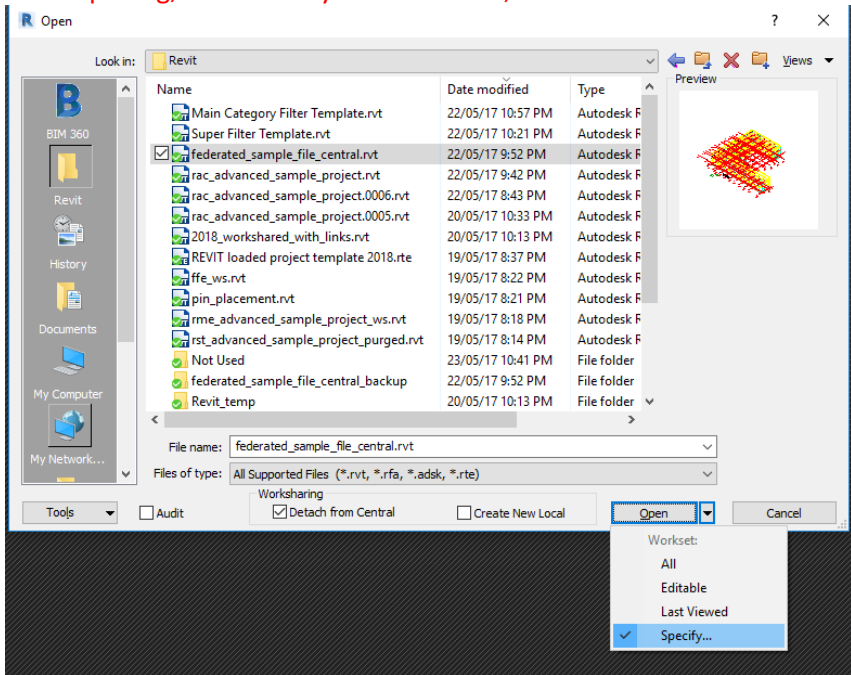


Workflow Category	Revit Item	Details	Demo ?																																																																											
	Keyboard Shortcuts																																																																													
		Please import the Keyboard Shortcuts provided in the Dataset.																																																																												
Productivity	Keyboard Shortcuts	<p>If you are right-handed with the mouse, it makes sense to focus most of your shortcuts on your left hand. Further, you should try and set up ‘single key’ keyboard shortcuts if possible.</p> <p>You can also use the number keys like 0-9.</p> <table><tr><td>Thin Lines; Thin Lines</td><td>TL</td><td>View&gt;Graphics; Quick Access Too...</td></tr><tr><td></td><td>,</td><td></td></tr><tr><td>Rotate</td><td>1</td><td>Modify&gt;Modify</td></tr><tr><td>Scale</td><td>2</td><td>Modify&gt;Modify</td></tr><tr><td>Align</td><td>3</td><td>Modify&gt;Modify</td></tr><tr><td>Structural Wall:Pick Lines</td><td>4</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>Line:Pick Lines</td><td>4</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>Grid:Pick Lines</td><td>4</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>ArchWall:Pick Lines</td><td>4</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>Truss:Pick Lines</td><td>4</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>Default:Pick Lines</td><td>4</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>Default:Line</td><td>5</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>Line:Line</td><td>5</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>Line:Start-End-Radius Arc</td><td>6</td><td>Contextual Tabs&gt;Draw</td></tr><tr><td>Properties</td><td>7</td><td>Create&gt;Properties; View&gt;Windo...</td></tr><tr><td>Model Line; Model Line; Boundary Line; Rebar...</td><td>LI</td><td>Create&gt;Model; Create&gt;Detail; Cr...</td></tr><tr><td></td><td>DM</td><td></td></tr><tr><td></td><td>4</td><td></td></tr><tr><td>Enable Temporary View Properties</td><td>TV</td><td>View Control Bar</td></tr><tr><td></td><td>8</td><td></td></tr><tr><td>Visibility/ Graphics</td><td>VG</td><td>View&gt;Graphics</td></tr><tr><td></td><td>VV</td><td></td></tr><tr><td></td><td>9</td><td></td></tr><tr><td>Restore Temporary View Properties</td><td>RQ</td><td>View Control Bar</td></tr><tr><td></td><td>0</td><td></td></tr></table> <p>Go to 01 - Entry Level - Furniture Layout</p> <p>Try using 1 to rotate</p> <p>Try using Q to move</p> <p>Trying using 3 to Align</p> <p>Edit a Floor Sketch with double-click</p> <p>Try using 4 (Pick) and 5 (Draw) lines</p> <p>SS for Split</p> <p>TR for Trim</p> <p>FS for Finish Sketch</p>	Thin Lines; Thin Lines	TL	View>Graphics; Quick Access Too...		,		Rotate	1	Modify>Modify	Scale	2	Modify>Modify	Align	3	Modify>Modify	Structural Wall:Pick Lines	4	Contextual Tabs>Draw	Line:Pick Lines	4	Contextual Tabs>Draw	Grid:Pick Lines	4	Contextual Tabs>Draw	ArchWall:Pick Lines	4	Contextual Tabs>Draw	Truss:Pick Lines	4	Contextual Tabs>Draw	Default:Pick Lines	4	Contextual Tabs>Draw	Default:Line	5	Contextual Tabs>Draw	Line:Line	5	Contextual Tabs>Draw	Line:Start-End-Radius Arc	6	Contextual Tabs>Draw	Properties	7	Create>Properties; View>Windo...	Model Line; Model Line; Boundary Line; Rebar...	LI	Create>Model; Create>Detail; Cr...		DM			4		Enable Temporary View Properties	TV	View Control Bar		8		Visibility/ Graphics	VG	View>Graphics		VV			9		Restore Temporary View Properties	RQ	View Control Bar		0		
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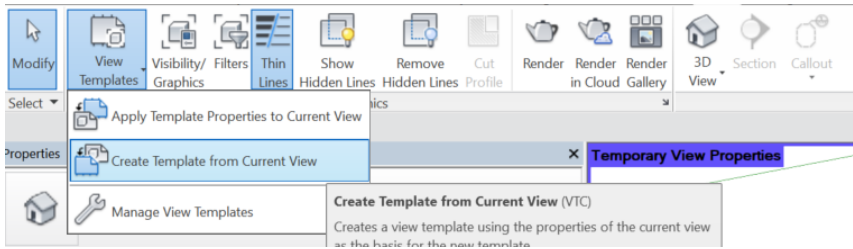
Workflow Category	Revit Item	Details	Demo ?
Productivity	Keyboard Shortcuts	<p>Edit Type (Type Properties), ET</p> <p>This will work for any object, including Walls, Floors etc.</p> <p>Or double-click, like we set up before...</p>	Y
		<p>Hit S, then Spacebar to Save the file  FC to Close it  and open the <b>federated_sample_file_central.rvt</b>  Detach  Specify...  Close the Link Worksets</p> <p>After opening, immediately hit S for Enter, then Save As a new name.</p>  <p>Now, open the rac architecture workset, which should load the link  And switch to 02 – Floor View</p>	



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Workflow Category	Revit Item	Details	Demo ?
Productivity	Keyboard Shortcuts	<p>What about fast editing using 'Temporary' Visibility Graphics?</p> <p>Enable Temporary - 8 Visibility Graphics - 9 Restore - 0</p> <p>Try turning off Stairs with this method</p> <p>So fast!</p> <p>And... after editing the view in a 'temporary' state, you can still Save Template from that view for later use (wow!)</p> <p>Do the above steps again, but this time after turning off Planting, save the new template as: "No Planting"</p> <p>Then switch the view template afterward to see the effect</p> 	Y
Productivity	Keyboard Shortcuts	<p>Single key for save = S Hit spacebar to select the 'first' keyboard shortcut option</p>	

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Workflow Category	Revit Item	Details	Demo ?																																																			
Productivity	Keyboard Shortcuts	<p>Set Snaps as individual key shortcuts. Don't worry if they are not unique, you can just hit that key and then spacebar – the single key shortcut will always appear first.</p> <table><tr><td>Midpoints</td><td>SM</td><td>Snaps</td></tr><tr><td>Snap Off</td><td>SO</td><td>Snaps</td></tr><tr><td>Endpoints</td><td>SE</td><td>Snaps</td></tr><tr><td></td><td>E</td><td></td></tr><tr><td>Quadrants</td><td>SQ</td><td>Snaps</td></tr><tr><td>Snap to Remote Objects</td><td>SRE</td><td>Snaps</td></tr><tr><td>Snap to Point Clouds</td><td>S.</td><td>Snaps</td></tr><tr><td>Close</td><td>SZ</td><td>Snaps</td></tr><tr><td>Tangents</td><td>ST</td><td>Snaps</td></tr><tr><td>Turn Override Off</td><td></td><td>Snaps</td></tr><tr><td>Work Plane Grid</td><td>SW</td><td>Snaps</td></tr><tr><td>Points</td><td></td><td>Snaps</td></tr><tr><td>Perpendicular</td><td>SP</td><td>Snaps</td></tr><tr><td>Nearest</td><td>SN</td><td>Snaps</td></tr><tr><td>Centers</td><td>SC</td><td>Snaps</td></tr><tr><td>Intersections</td><td>SX</td><td>Snaps</td></tr><tr><td></td><td>X</td><td></td></tr></table> <p>In the 02 Floor View Try RF to start roof command Then start a new 'line' in the sketch And experiment with transparent</p> <ul style="list-style-type: none"><li>• SE snap endpoints</li><li>• SM snap midpoint</li><li>• SC snap centre of circle or arc</li><li>• SX snap intersection</li><li>• SQ snap quadrant</li></ul> <p>If you learn these and get fast at them, it will improve productivity</p>	Midpoints	SM	Snaps	Snap Off	SO	Snaps	Endpoints	SE	Snaps		E		Quadrants	SQ	Snaps	Snap to Remote Objects	SRE	Snaps	Snap to Point Clouds	S.	Snaps	Close	SZ	Snaps	Tangents	ST	Snaps	Turn Override Off		Snaps	Work Plane Grid	SW	Snaps	Points		Snaps	Perpendicular	SP	Snaps	Nearest	SN	Snaps	Centers	SC	Snaps	Intersections	SX	Snaps		X		Y
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Turn Override Off		Snaps																																																				
Work Plane Grid	SW	Snaps																																																				
Points		Snaps																																																				
Perpendicular	SP	Snaps																																																				
Nearest	SN	Snaps																																																				
Centers	SC	Snaps																																																				
Intersections	SX	Snaps																																																				
	X																																																					
Productivity	Keyboard Shortcuts	<p>You can set keyboard shortcuts for the 'sub items' of a split Ribbon item – faster than mouse navigation. For example:</p> <table><tr><th>Command</th><th>Shortcuts</th><th>Paths</th></tr><tr><td>Copy/ Monitor:Use Current Project</td><td></td><td>Collaborate&gt;Coordinate</td></tr><tr><td>Copy/ Monitor&gt;Select Link</td><td>CL</td><td>Collaborate&gt;Coordinate</td></tr></table>	Command	Shortcuts	Paths	Copy/ Monitor:Use Current Project		Collaborate>Coordinate	Copy/ Monitor>Select Link	CL	Collaborate>Coordinate																																											
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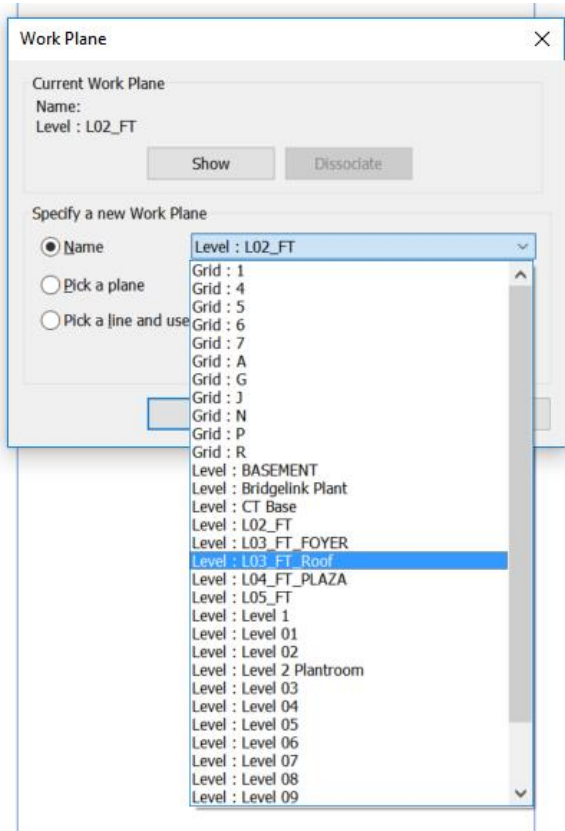


Workflow Category	Revit Item	Details	Demo ?																																																																																													
Productivity	Keyboard Shortcuts	<div>Set multiple Finish commands to the same keyboard shortcut. Because they are ‘contextual’ they won’t clash with each other:</div> <div><div>Search: finish</div><div>Filter: All</div><div>Assignments:</div><table><thead><tr><th>Command</th><th>Shortcuts</th><th>Paths</th></tr></thead><tbody><tr><td>Finish Model</td><td>FM</td><td>In-Place Model&gt;In-Place Editor</td></tr><tr><td>Finish Mass</td><td></td><td>In-Place Mass&gt;In-Place Editor</td></tr><tr><td>Finish</td><td></td><td>Contextual Tabs&gt;Slope Editor; Contextual Tabs&gt;Justify Editor</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish</td><td></td><td>Contextual Tabs&gt;System Inspector</td></tr><tr><td>Finish</td><td></td><td>Contextual Tabs&gt;Edit Displacement Set</td></tr><tr><td>Finish Edit Mode</td><td></td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish</td><td></td><td>Contextual Tabs&gt;Edit Analytical Model</td></tr><tr><td>Finish</td><td></td><td>Contextual Tabs&gt;Light Group</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Selection</td><td></td><td>Contextual Tabs&gt;Selection Mode</td></tr><tr><td>Finish Template</td><td></td><td>Contextual Tabs&gt;Template Editor</td></tr><tr><td>Finish Editing System; Finish Editing Circuit</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Edit Mode</td><td></td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish</td><td></td><td>Contextual Tabs&gt;Edit Pasted</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Connection</td><td></td><td>Contextual Tabs&gt;Surface Connection</td></tr><tr><td>Finish Layout</td><td></td><td>Contextual Tabs&gt;Generate Layout</td></tr><tr><td>Finish</td><td></td><td>Contextual Tabs&gt;Edit Connectivity</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr><tr><td>Finish Editing Zone</td><td>FS</td><td>Contextual Tabs&gt;Edit Zone</td></tr><tr><td>Finish</td><td>FG</td><td>Contextual Tabs&gt;Edit Group</td></tr><tr><td>Finish Surface</td><td></td><td>Contextual Tabs&gt;Surface</td></tr><tr><td>Finish</td><td></td><td>Contextual Tabs&gt;Edit Attached Group</td></tr><tr><td>Finish Edit Mode</td><td>FS</td><td>Contextual Tabs&gt;Mode</td></tr></tbody></table></div>	Command	Shortcuts	Paths	Finish Model	FM	In-Place Model>In-Place Editor	Finish Mass		In-Place Mass>In-Place Editor	Finish		Contextual Tabs>Slope Editor; Contextual Tabs>Justify Editor	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish		Contextual Tabs>System Inspector	Finish		Contextual Tabs>Edit Displacement Set	Finish Edit Mode		Contextual Tabs>Mode	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish		Contextual Tabs>Edit Analytical Model	Finish		Contextual Tabs>Light Group	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish Selection		Contextual Tabs>Selection Mode	Finish Template		Contextual Tabs>Template Editor	Finish Editing System; Finish Editing Circuit	FS	Contextual Tabs>Mode	Finish Edit Mode		Contextual Tabs>Mode	Finish		Contextual Tabs>Edit Pasted	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish Connection		Contextual Tabs>Surface Connection	Finish Layout		Contextual Tabs>Generate Layout	Finish		Contextual Tabs>Edit Connectivity	Finish Edit Mode	FS	Contextual Tabs>Mode	Finish Editing Zone	FS	Contextual Tabs>Edit Zone	Finish	FG	Contextual Tabs>Edit Group	Finish Surface		Contextual Tabs>Surface	Finish		Contextual Tabs>Edit Attached Group	Finish Edit Mode	FS	Contextual Tabs>Mode	
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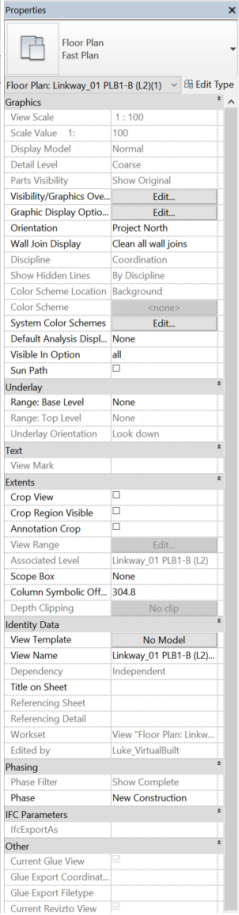
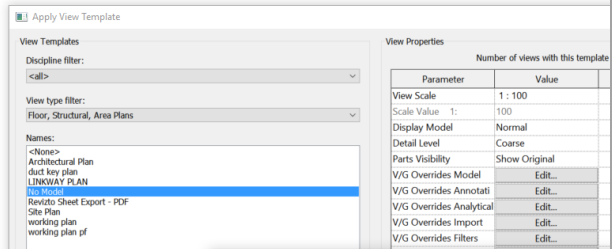
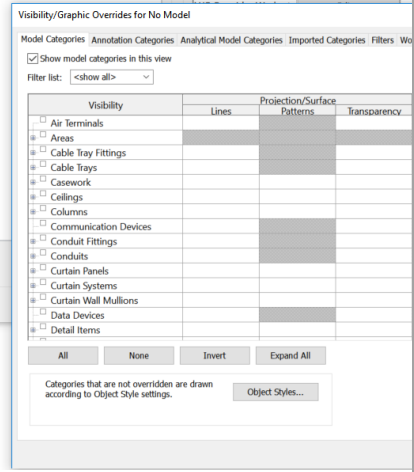


Workflow Category	Revit Item	Details	Demo ?
	<b>Management and Review</b>		
Management	Project Review / Audit	<p>Checking Levels</p> <p>Could make a schedule or collect using Dynamo, but</p> <p>Quicker is to start the plan view command, and check list</p> <p>All Levels are shown here. <b>Try it.</b></p>	Y
Productivity	Datums	<p>Quickest way to check Datums including Grids? Start the Set Workplane command:</p>  <p><b>Check if there is a grid named B.1 in this project.</b></p>	Y

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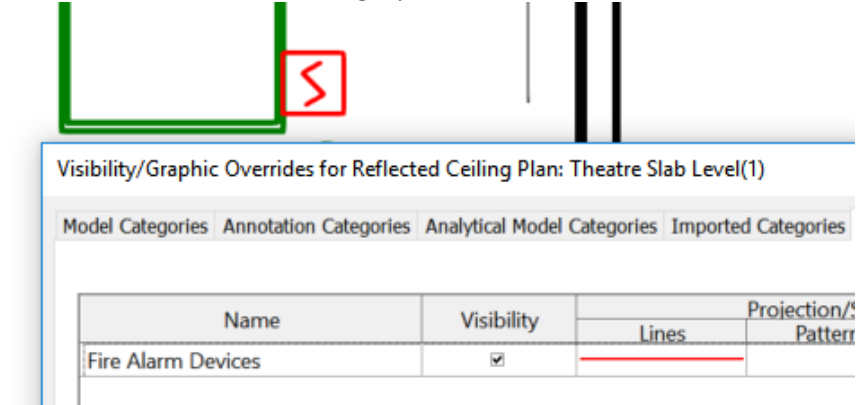



Workflow Category	Revit Item	Details	Demo ?
Management	View Management	Select Multiple Views or Sheets to Apply View Template to all of them I've had mixed results with this?? May be buggy.	
Management	View Management	<p>Working in large files can be slow, but there are ways to improve performance. For example:</p> <ul style="list-style-type: none"> <li>• Make a Fast Section view template, then</li> <li>• switch to Working View Template (still links off), then</li> <li>• Printing template, turns links on</li> </ul> <p><b>Fast Plan:</b></p>    <p><b>Do this now:</b>  <b>New View Template called Fast View</b>  <b>Turn Everything Off</b>  <b>Edit Section Type</b>  <b>Change Default to Fast View</b>  <b>Make the Section</b>  <b>Switch to a proper template afterwards</b></p>	Y

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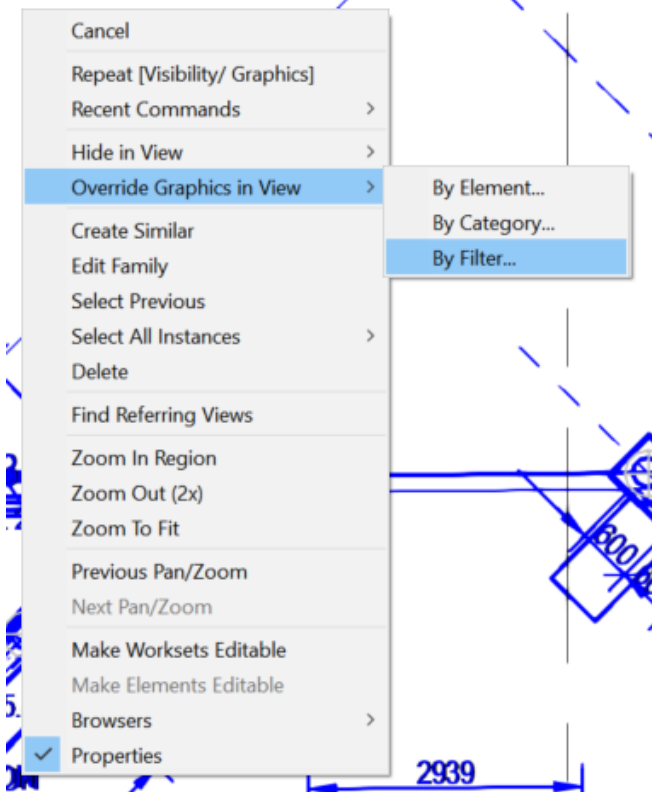


Workflow Category	Revit Item	Details	Demo ?
	<b>Filters</b>		
Management	Filters for Categories	<p>A category based filter will override more powerfully even than the same row on the Model based category override:</p>  <p>This is overriding the nested annotation family, while the normal Visibility / Graphics override was not.</p> <p>Try it: Open the MEP sample workset to load the link Go to the Ceiling Plan for 02 – Floor Try to override sprinklers (bottom left corner of screen) Won't work with Category Now... Make a Category Filter</p>  <p>Now try overriding the colour to red</p> <p>Filters always win!</p>	

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Workflow Category	Revit Item	Details	Demo ?
Productivity	Filters – For Hiding Families	<p>One of the most powerful and logical filter is based on the Family Name. These can work through links.</p> <p>There is a quick way to create them:</p> <ul style="list-style-type: none"> <li>• Tab-select an element</li> <li>• Copy / Paste Aligned to Same Place</li> <li>• Temporarily edit view (keyboard shortcut 8)</li> <li>• Select the New Element</li> <li>• Right-click, Override in View, By Filter</li> </ul>  <ul style="list-style-type: none"> <li>• New Filter...</li> <li>• (you can use the dropdown list)</li> <li>• Eventually switch off the Temp View (ks:9)</li> <li>• Then add those Filters to the Template itself</li> <li>• Delete the temporarily copied family</li> </ul> <p>Do this for a Table in the 01 – Entry Level view</p>	Y

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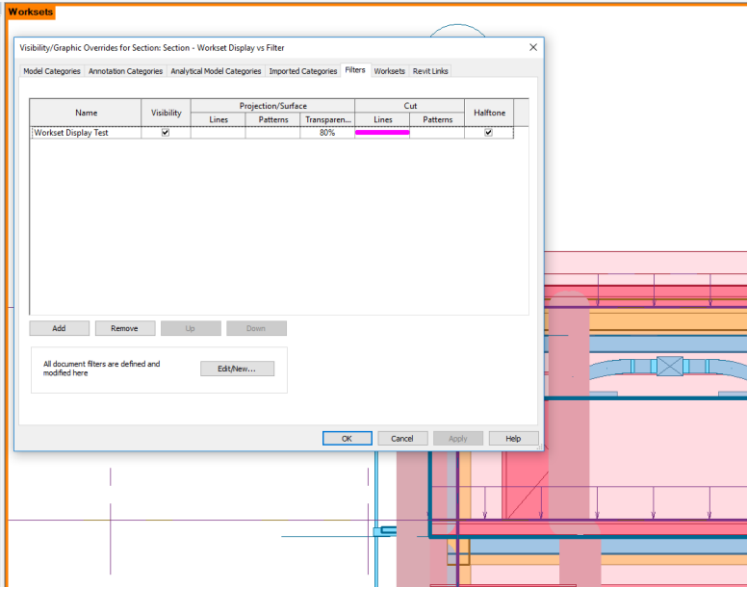
Workflow Category	Revit Item	Details	Demo ?
Management	Filters	<p>A super filter can filter many objects by one parameter (check in the sample project/s)</p> <p><b>Lab Note:</b>  Please open the <a href="#">Super Filter Template.rvt</a>  Transfer Project Standards... Filters only  Note: this filter references a Shared Parameter called 'Comment'  It will be added automatically to support the View Filter</p>	Y
Management	Filters	<p>Priming your project with a 'Filter for Every Category' may speed things up later on...</p> <p><b>Lab Note:</b>  Please open the <a href="#">Main Category Filter Template.rvt</a>  Transfer Project Standards... Filters only</p>	
		<p>Test out the two super filters by copy / pasting a Table and a Stair into 01 – Entry Level</p> <p>Edit the Comment parameter for table to Activate</p> <p>Edit the Stair Keynote to Keynote</p> <p>Observe</p> <p>Type vs instance</p>	
Management	Filters - Point Cloud	<p>For point clouds a Saved Selection, any colour, <u>will</u> override the point display...</p>	



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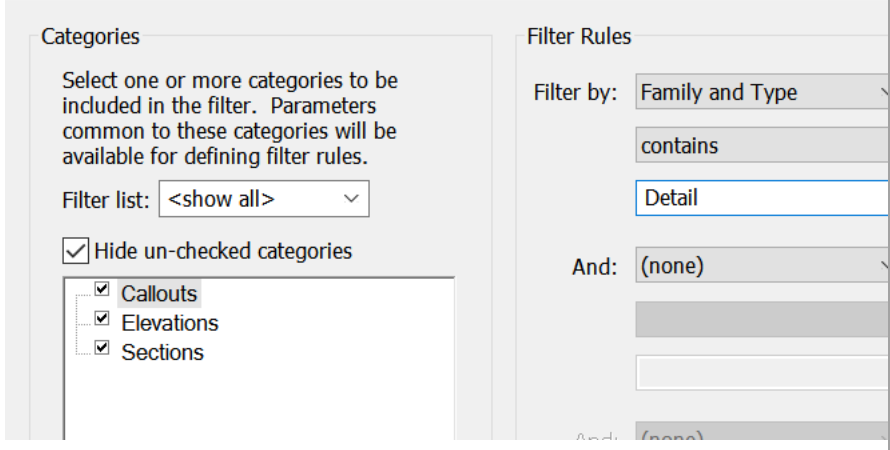
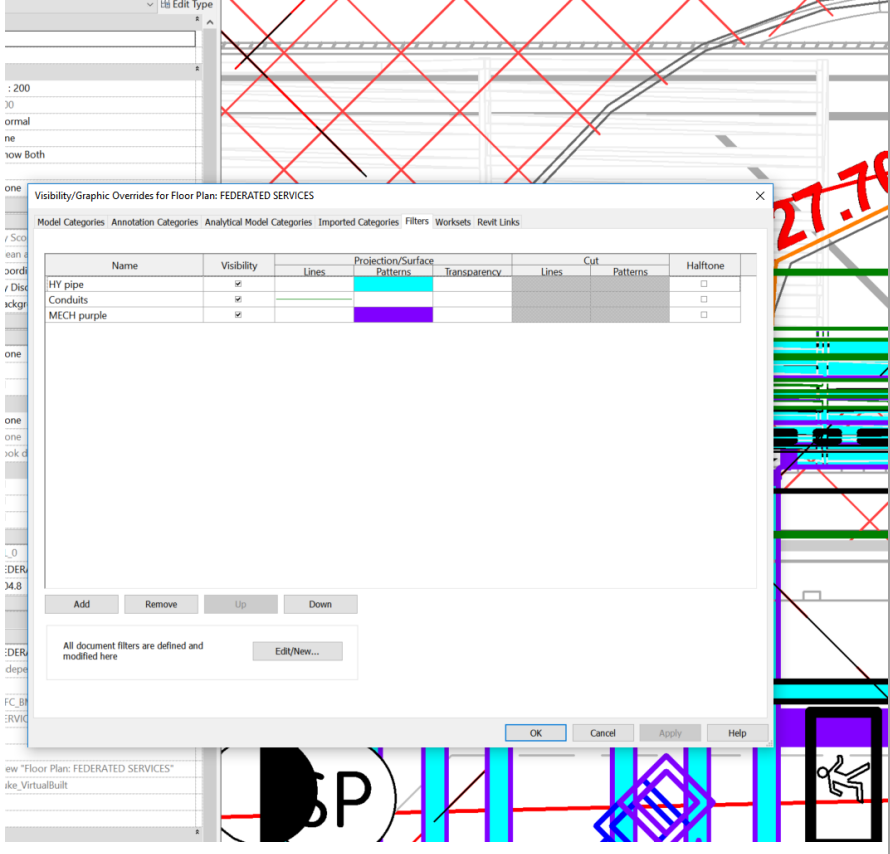


Workflow Category	Revit Item	Details	Demo ?
Workflow	Filters	<p>Guess what? Filters Will not override Worksharing display!</p> <p>But will turn <u>off</u> the elements... In fact, all of the Filter overrides work except for colour!</p>  <p>Spoiler alert: Filters Don't Always Win, the <u>border around the view</u> <u>does</u>...</p> <p>Try using locked 3 view and turning on Worksharing Display</p>	
Management	Filters	<p>Scope Box is a filter parameter for Datums</p> <p>In other words, you can override or switch off Levels and Grids using the Scope Box they are applied to</p>	

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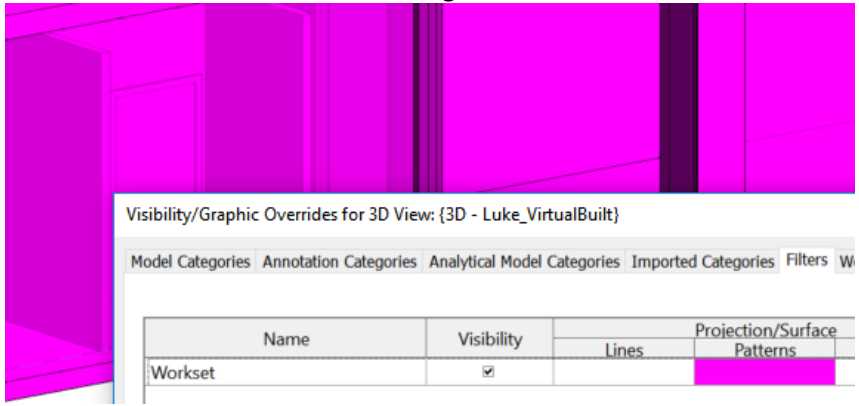
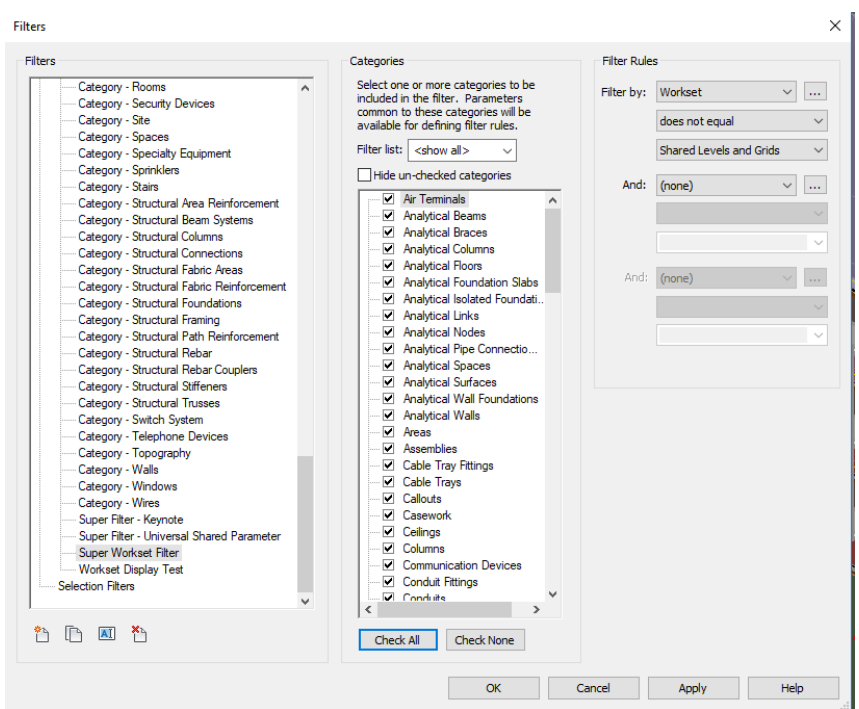


Workflow Category	Revit Item	Details	Demo ?
Management	Filters	<p>How you can Filter for all Detail Views:</p> 	
Management	Filters	<p>There are ways to use Filters to create a multi-discipline overlay view, even when dealing with links:</p> 	

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Workflow Category	Revit Item	Details	Demo ?
Management	Filters	<p>Make a Workset filter across all Categories:</p>  <p>Try this...</p> <p>Close the federated model</p> <p>Open up rst_advanced_sample_project_purged.rvt</p> <p>Make the Workset filter like this...</p>  <p>Powerful way to override everything...</p>	
		Timing mark – 40min approx	

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Parameters			
Waistier Thickness	10.0	≥	10
Waistier Jaws S2	75.0	≥	75
V2F Extension	60.0	≥	60
Thermal Radius	6.0	≥	6
Hot Height	11.0	≥	$11.0 + 2 \times (\text{Thermal Radius})$
Hot Radius	6.0	≥	Thermal Radius + 1 mm
Hot Rod	1.1	≥	Thermal Radius + 6
Hot Rod Width	25.0	≥	$6 + 1.5 \times (\text{Thermal Radius})$
Hot Length	175.0	≥	6
Hot Hole	11.0	≥	Hot Rod Width + 2
ETM Extension	17.0	≥	Hot Height + 1 mm

You can use them to make a kind of optional input scheme, input A or input B and the family will figure it out for you.

Operation		=		
<b>Other</b>				
glass material	00481 render glass	=		
Show outer frame	<input checked="" type="checkbox"/>	=		
Plan arrow offset interior (default)	400.00	=	Plan arrow offset exterior	<input checked="" type="checkbox"/>
Plan arrow offset exterior (default)	400.00	=		<input checked="" type="checkbox"/>
PLAN INTERIOR Right Arrow (default)	<input checked="" type="checkbox"/>	=		
PLAN INTERIOR Left Arrow (default)	<input checked="" type="checkbox"/>	=		
PLAN EXTERIOR Right Arrow (default)	<input checked="" type="checkbox"/>	=		
PLAN EXTERIOR Left Arrow (default)	<input checked="" type="checkbox"/>	=		

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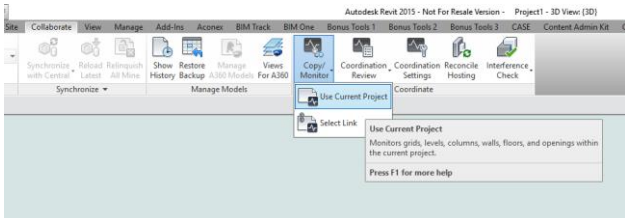
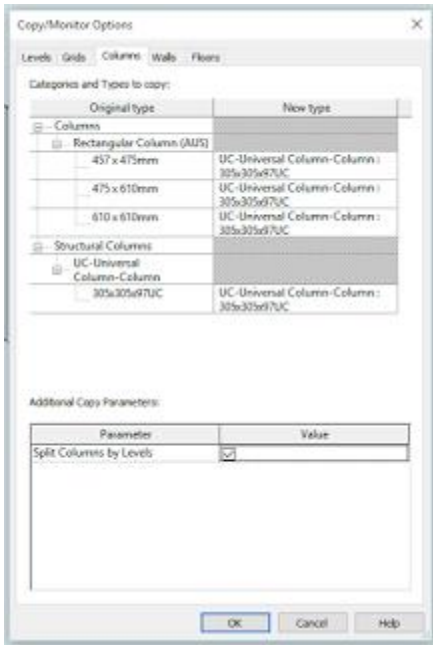
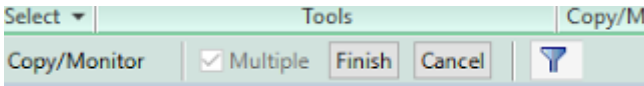


Workflow Category	Revit Item	Details	Demo ?
Workflow	Modelling – Adaptive Components	<p>Sometimes we forget or don't think of better modelling methods. Perhaps we get stuck trying to figure out arrays in the normal family environment. But have you tried:</p> <ul style="list-style-type: none"> <li>• Repeaters</li> <li>• Adaptives for quick arrays of elements                             <ul style="list-style-type: none"> <li>Bollards</li> <li>Units etc</li> </ul> </li> </ul> <p>Single point adaptives or even Generic Models can be placed very quickly with Dynamo.</p>	Y?
		Open the <a href="#">rac_advanced_sample_project.rvt</a>	
Productivity	Copy and Paste	<p>Various tools here can vastly improve productivity, such as:</p> <ul style="list-style-type: none"> <li>• Paste Aligned to Multiple Views</li> <li>• Paste Aligned to Multiple Levels</li> </ul> <p>Go to 01 - Entry Level Find the WC Copy (Ctrl+C) Paste to Levels 2 and 3 (AL)</p> <p>Go to A1 Floor Plan Select the Print Stamp Rotate it? Copy Paste Aligned to Multiple Views</p>	Y
Productivity	Modelling	<p>Use 'inherent' selection after certain Revit actions After Paste, you can edit a form immediately to reconstrain Or after paste you can start Move or Rotate After Ungroup, you can pin all objects etc</p> <p>Select the Grid Group Ungroup it Immediately Pin the selected objects</p>	Y
Productivity	Modelling	Splitting all Columns immediately by Level...	

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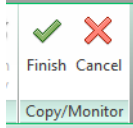
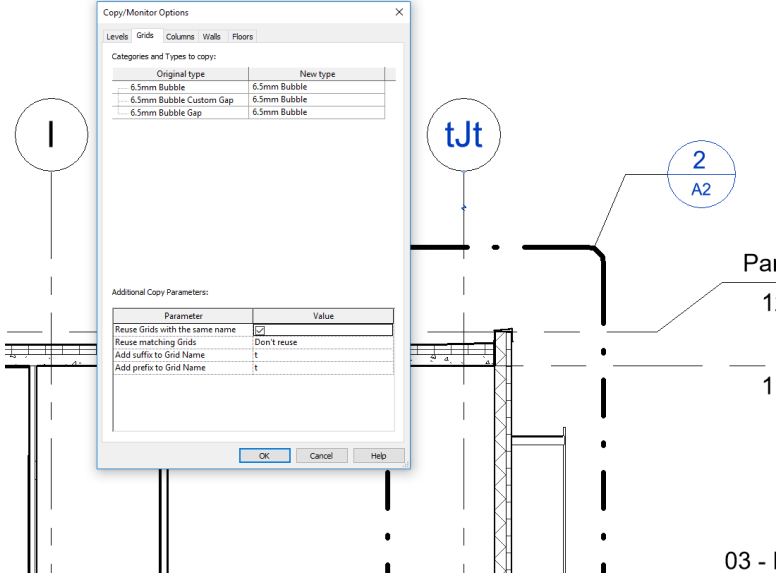


Workflow Category	Revit Item	Details	Demo ?
		<p>To do this, we can leverage a nice feature of the builtin <b>Copy/Monitor</b> feature. Its extremely simple, and here are the steps:</p> <ol style="list-style-type: none"> <li>1. Go to a 3D view and Isolate the Columns Category (so you can just see the Columns you want to split)</li> <li>2. Select all of them and Save a Selection (this is so we can cleanup later)</li> <li>3. Go to Collaborate tab and click Copy/Monitor – Use Current Project</li> </ol>  <ol style="list-style-type: none"> <li>4. Options – Columns tab, tick “Split Columns by Levels”, Ok</li> </ol>  <ol style="list-style-type: none"> <li>5. Click Copy, tick Multiple, Select all the Columns, then click the little Finish button</li> </ol> 	

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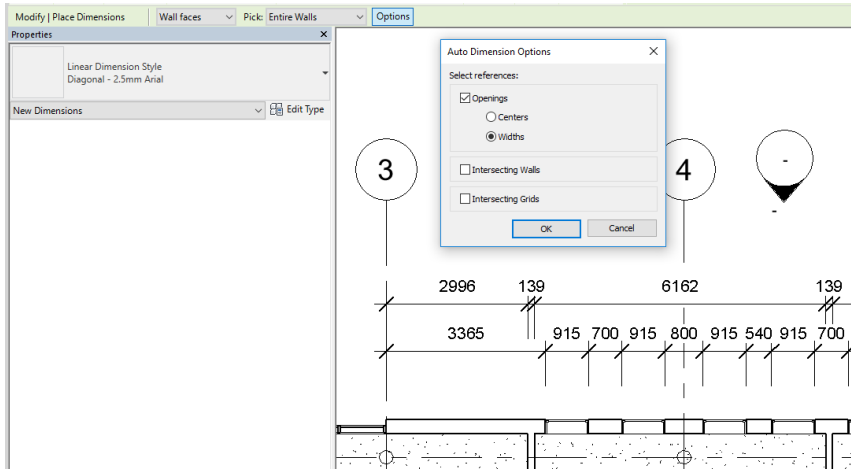


Workflow Category	Revit Item	Details	Demo ?
		<p>6. Click the big Finish button</p>  <p>7. If you want to delete the old ones, load the Saved Selection from step 2 and press Delete</p> <p>8. Done!</p> <p>Isolate columns in View in the model Save the Selection of all of them (you will see why later) Copy / Monitor Check the options! – Match Type, Split Do the Copy , Selection and Finish</p>	
Productivity	Modelling	<p>Similarly, we can leverage Copy / Monitor to Copy all Grids and add Suffix or Prefix, then we can delete the old ones:</p>  <p>Isolate Grids in a Plan View Save the original selection Use the Copy / Monitor</p>	
Productivity	Modelling	<p>Or... we could use it to create a set of 'generic' objects based on the current project (eg. All Walls to generic 200mm), perhaps pushing them to another Workset for some specific use.</p>	

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Workflow Category	Revit Item	Details	Demo ?
Productivity	Modelling	Be aware of Auto-Creation tools in Revit, like: <ul style="list-style-type: none"> <li>Place Spaces Automatically</li> </ul> <p>On the Analyze tab</p>	
Productivity	Modelling	Sometimes it will be quicker to use Offset rather than copy – such as for structural framing elements	
	<b>Documentation</b>		
Productivity	Documentation	Be aware of Auto-Creation tools in Revit, like: <ul style="list-style-type: none"> <li>Auto tag</li> </ul> <p>Tag All Walls in one of the plan views This tag is using Type Mark? Is this good? Vs Keynote?</p>	Y
Productivity	Documentation	Dimension tools, look at the Options bar!  You can use the Entire Walls option with additional intersects.   <p>Go to 01 Entry Level Make an Aligned Dimension Try the options for:</p> <ul style="list-style-type: none"> <li>Openings</li> <li>Intersecting Walls</li> </ul>	Y

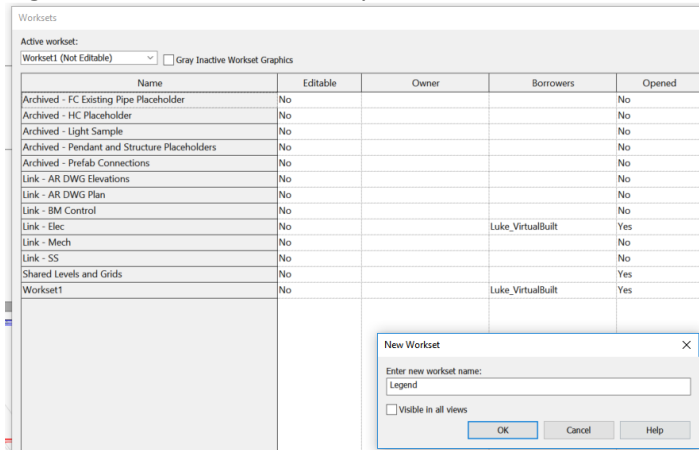
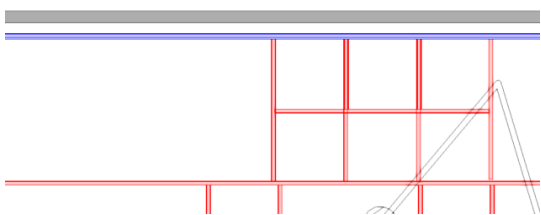


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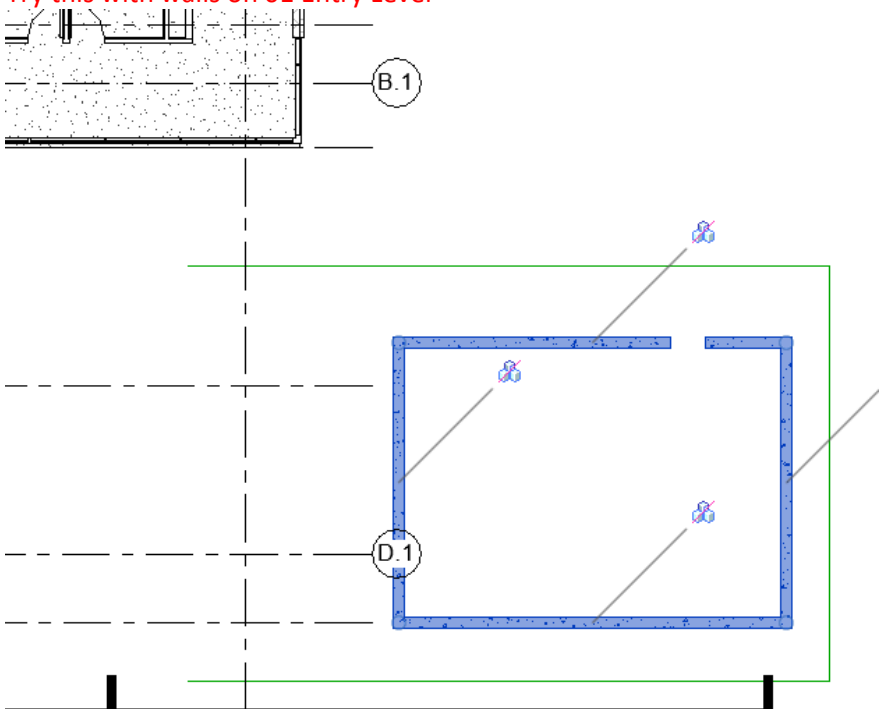
Workflow Category	Revit Item	Details	Demo ?
Workflow	Keynote Editing	<p>Can make <u>custom</u> keynote from Edit Type, you can bypass the Keynote selection dialog.</p> <p>Try this with some of the walls  Add an Element Keynote Tag  Compare Editing the Value vs Edit Type - Keynote</p> <p>But... this is harder for Keynote Description...</p> <p>You can 'push' Keynote Descriptions into parameter with Dynamo or similar, but what are the implications?</p>	Y
Workflow	Keynote Editing	<p>Using Keynotes is actually a huge way to gain productivity. Write or edit a note once, and it updates everywhere.</p> <p>You do have to decide if you will have:</p> <ul style="list-style-type: none"> <li>• Keynote file per project</li> <li>• One universal keynote file</li> </ul> <p>How to edit?  In the dataset you may find Keynote manager (last free version)</p> <p>Dedicated app / addin is faster than clumsy CSV / Excel based editing</p> <p>Browse the Dataset  Open " Dataset\Keynote\Free_Keynote_Manager\Keynote Manager.exe"  Open " Dataset\Revit\Keynote_Master.txt"  Observe how to directly edit this file with the addin utility</p>	Y

Workflow Category	Revit Item	Details	Demo ?
Productivity	Documentation	<p><b>Hack Alert...</b></p> <p>You can create a non-visible Workset to generate a quick, in-drawing legend that uses filters already in the view:</p>  <p>-----</p> <p>64mm BOX STUD</p> <p>64mm TRACK</p> 	
	<b>Workset Management</b>		
		<p>As time allows...</p> <p>Close the <a href="#">rac_advanced_sample_project.rvt</a></p> <p>Open <a href="#">federated_sample_file_central_detached.rvt</a></p>	
Workflow	Worksets	<p>Set workset <b>properly</b> before certain tasks that will inherently create objects, like:</p> <ul style="list-style-type: none"> <li>• RVT, IFC, Point Cloud and DWG linking</li> <li>• Copy / Monitor</li> </ul>	

## 1.2 - Filters Always Win, and Other Ways to Be Better at Revit

Luke Johnson, Virtual Built Pty Ltd

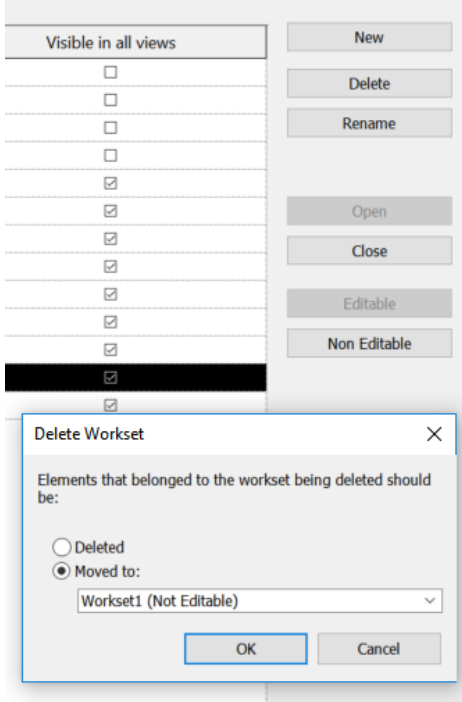


Workflow Category	Revit Item	Details	Demo ?
Management	Worksets	<p>Fix model element worksets by using: Select All Instances – In Entire Project</p> <p>Try this with walls on 01 Entry Level</p> 	Y

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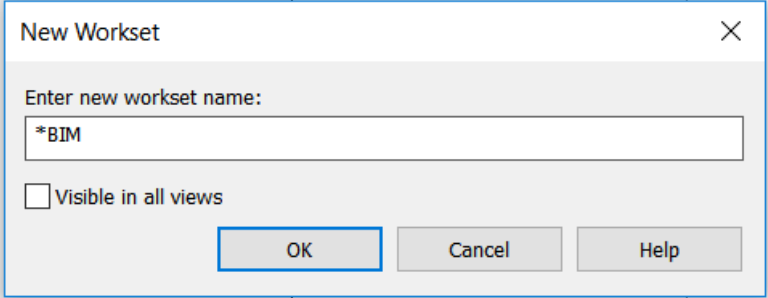


Workflow Category	Revit Item	Details	Demo ?
Productivity	Worksets	<p>Quickest way to move items to another Workset? Delete the workset they are currently on:</p>  <p>Note: only open worksets will show in the “moved to” list.</p> <p>Try deleting the ‘junk workset’</p>	Y
Productivity	Worksets	<p>You can also Group a bunch of elements and change the workset all at once. This is perhaps more forgiving than just selecting the elements.</p> <p>And it can work to fix things like Duct Insulation on wrong workset.</p>	
Workflow	Worksets	<p>Generally, workshared projects give you greater control and flexibility for your documentation. It also gives you new properties that are useful for Dynamo and other things, like the fact that View related items will live on a View workset.</p>	

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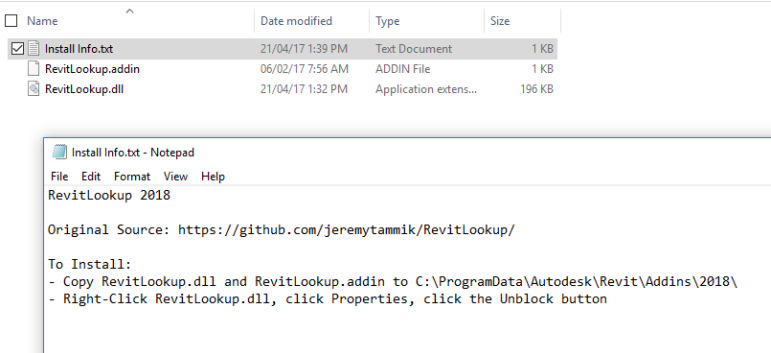


Workflow Category	Revit Item	Details	Demo ?
Management	Workset Management	<p>Workset name matching for speed... hiding Linked Levels and Grids like this:</p>  <p>Consider using a workset to store template related items, that could allow you to auto-populate schedules more quickly.</p>  <p>Go to 02 – Floor plan Try change workset of grids And turning off the default workset in Visibility / Graphics</p>	Y
	<b>Conversions and Other</b>		
Management	IFC	<p>Some tips can speed up conversion:</p> <ul style="list-style-type: none"> <li>• Use the latest IFC addin obviously</li> <li>• Use an ultra lightweight ifc conversion template</li> <li>• Use Link method if you don't need editable geometry</li> </ul>	
	<b>Addins and Dynamo</b>		

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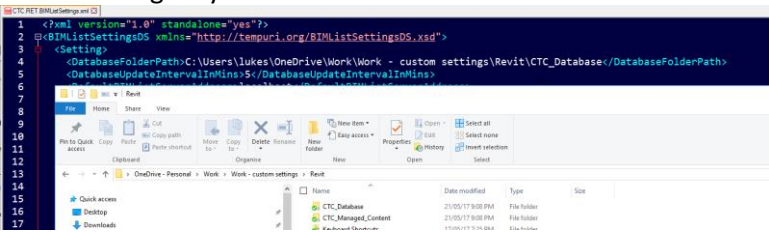
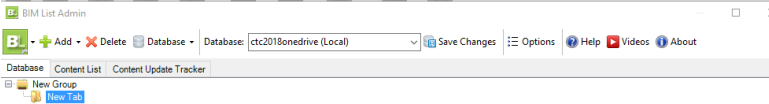
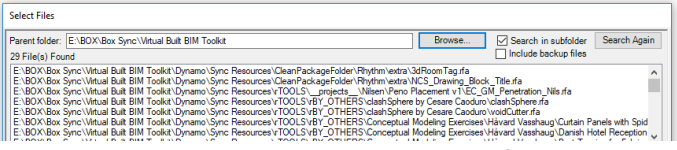


Workflow Category	Revit Item	Details	Demo ?																
Management	API	<p>RevitLookup – ability to select and copy things that can’t otherwise be copied between projects.</p> <p>Such as individual View Templates.</p> <p>Installing:</p>  <p>The screenshot shows a Windows File Explorer window with a table of files:</p> <table><thead><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th></tr></thead><tbody><tr><td>Install Info.txt</td><td>21/04/17 1:39 PM</td><td>Text Document</td><td>1 KB</td></tr><tr><td>RevitLookup.addin</td><td>06/02/17 7:56 AM</td><td>ADDIN File</td><td>1 KB</td></tr><tr><td>RevitLookup.dll</td><td>21/04/17 1:32 PM</td><td>Application extens...</td><td>196 KB</td></tr></tbody></table> <p>Below the file explorer is a Notepad window titled 'Install Info.txt - Notepad'. It contains the following text:</p> <pre>File Edit Format View Help RevitLookup 2018  Original Source: https://github.com/jeremytammik/RevitLookup/  To Install: - Copy RevitLookup.dll and RevitLookup.addin to C:\ProgramData\Autodesk\Revit\Addins\2018\ - Right-Click RevitLookup.dll, click Properties, click the Unblock button</pre>	Name	Date modified	Type	Size	Install Info.txt	21/04/17 1:39 PM	Text Document	1 KB	RevitLookup.addin	06/02/17 7:56 AM	ADDIN File	1 KB	RevitLookup.dll	21/04/17 1:32 PM	Application extens...	196 KB	
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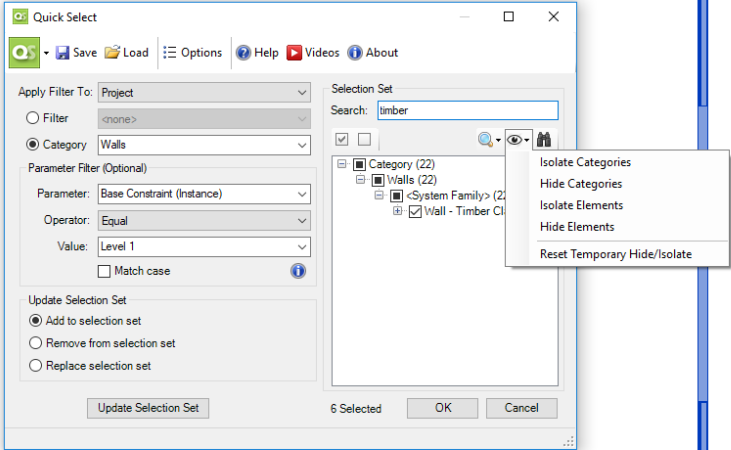


Workflow Category	Revit Item	Details	Demo ?
Management	Content Management with BIMList	<p>Free CTC tool</p> <p>You can set it up and use it locally easily</p> <p>Could be an entry point to getting your content prepped / organized?</p> <p>For pseudo-free-syncing, try editing the XML to move the default content path:</p> <p><b>"C:\Users\USERNAME\AppData\Roaming\CTC\BIM-List\CTC.RET.BIMListSettings.xml"</b></p> <p>To something on your server or Cloud service</p>  <p>Important: make sure you copy or store your content in a place where the path can resolve for all intended users... like side by side with the database.</p> <p>How to add content:</p> <ol style="list-style-type: none"> <li>1. New Database</li> <li>2. Local is *free*</li> <li>3. Edit Database</li> <li>4. Add</li> </ol>   <ol style="list-style-type: none"> <li>5. It will upgrade, takes time... also tied to version of Revit</li> </ol> <p>Can look at ways to share that content index to others on your local network (free?)</p>	Y

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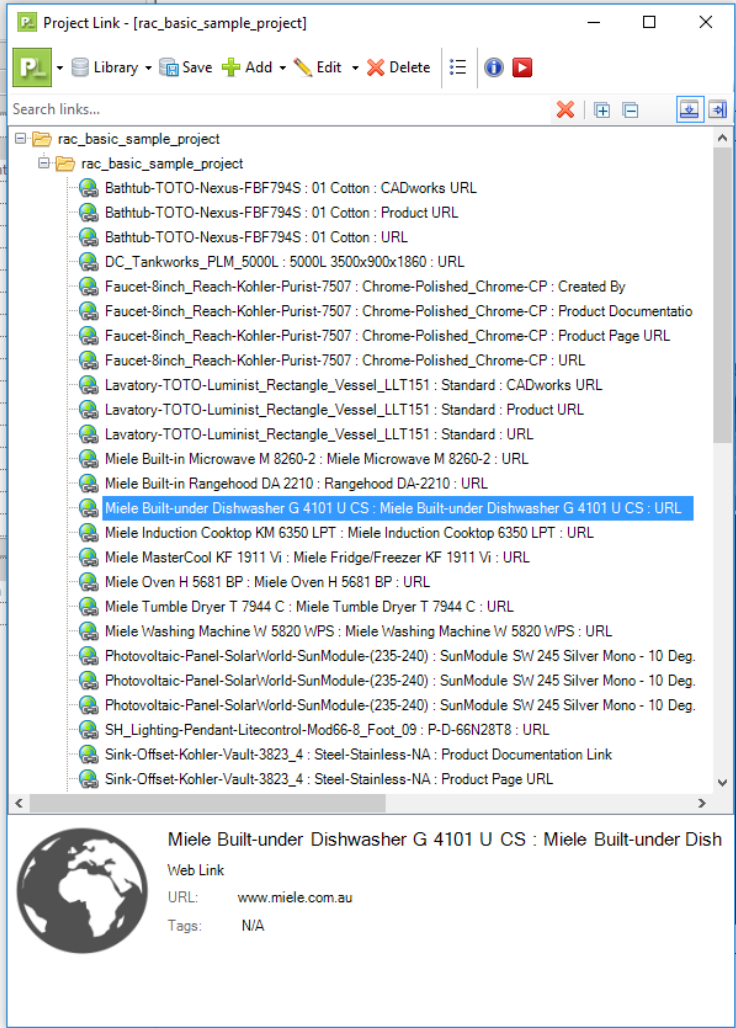
Workflow Category	Revit Item	Details	Demo ?
Productivity	CTC Quick Select	<p>Allows quick selection by parameter:</p> 	



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Workflow Category	Revit Item	Details	Demo ?
Management	CTC Project Link	<p>CTC Project Link – creates a file browser embedded in current Revit project...</p> <p>Can batch add all Family URLs</p> 	
Productivity	Dynamo and CAD Links	<p>You can use built in selection nodes in Dynamo to select CAD Links. You can also quickly create some of these selection ‘workflows’ and add them to the Dynamo Player in Revit 2017 and 2018.</p> <p>Open the <a href="#">rac_advanced_sample_project.rvt</a></p> <p>Open <a href="#">CAD Link Instance Selection.dyn</a></p> <p>Demo: <a href="#">CadLinkType selection to Dynamo Player</a></p>	Y

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Workflow Category	Revit Item	Details	Demo ?
Productivity	Dynamo – Workset Management	<p>Requires Bakery package:</p> 