Door Factory – New Features

New features for the RevitWorks Door Factory
(including its complete history!)

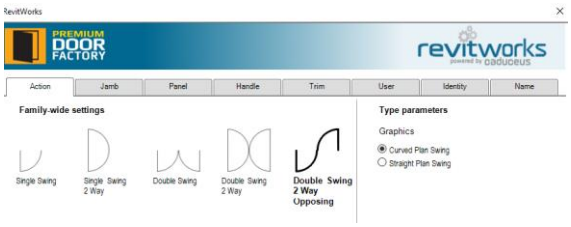
New Features introduced for Revit 2025

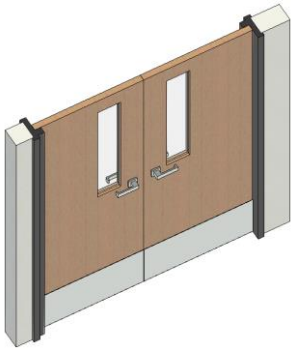
- Door Factory code updated from .Net Framework 4.8 to Net.8 to allow compatibility with Revit 2025 onwards.
- License now user based (i.e. Moves with the user).
  This simply means that if you are logged into another device with the same MS windows login credentials, you can activate the Door Factory without consuming another license.

New Features introduced for Revit 2024, 2023 and 2022

Double swing 2-way doors:

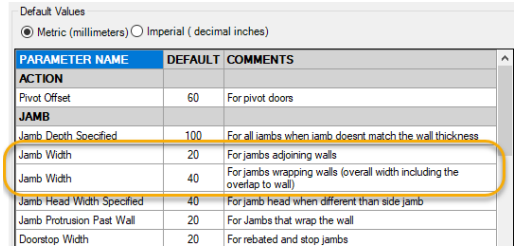
Now a stand-alone door action (separated from double swing doors) allows for options to include stop jambs (generally used for smoke-stop doors).





Default Values:

The user now can set up the default value for jamb widths to be different for jambs that wrap the wall compared to jambs that adjoin the wall, allowing for fewer user inputs during the jamb selection process.


Default Values

Metric (millimeters) Imperial (decimal inches)

PARAMETER NAME	DEFAULT	COMMENTS
ACTION		
Pivot Offset	60	For pivot doors
JAMB		
Jamb Depth Specified	100	For all jambs when jamb doesnt match the wall thickness
Jamb Width	20	For jambs adjoining walls
Jamb Width	40	For jambs wrapping walls (overall width including the overlap to wall)
Jamb Head Width Specified	40	For jamb head when different than side jamb
Jamb Protrusion Past Wall	20	For Jambs that wrap the wall
Doorstop Width	20	For rebated and stop jambs

Door factory Ribbon Icon

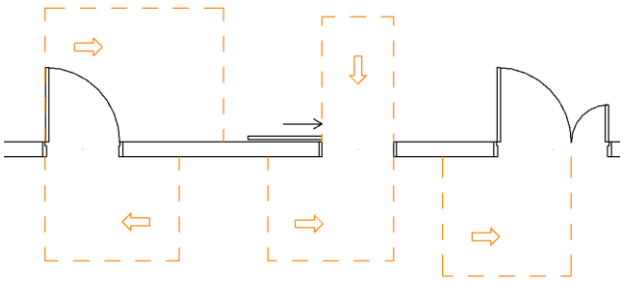
Updated to match other RevitWorks products and to suit both of Revit's UI active light and dark 2024 themes.

Clearance Diagrams:

As well as ADA and Australian standard clearance diagrams, Door Factory now comes with the 2017 American ICC door clearance diagrams: Users now have the choice to add clearance diagrams that comply with one of the following standards:

Amerian: ICC A117.1-2017
ADA 2010

Australian: AS1428.1

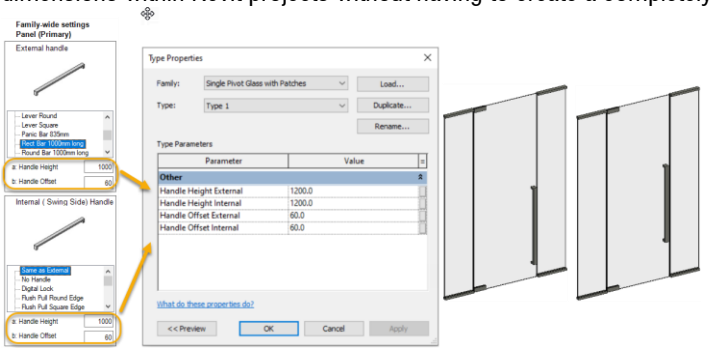


Please refer to this help file for setup and use notes.

New Features introduced for Revit 2023, 2022 and 2021

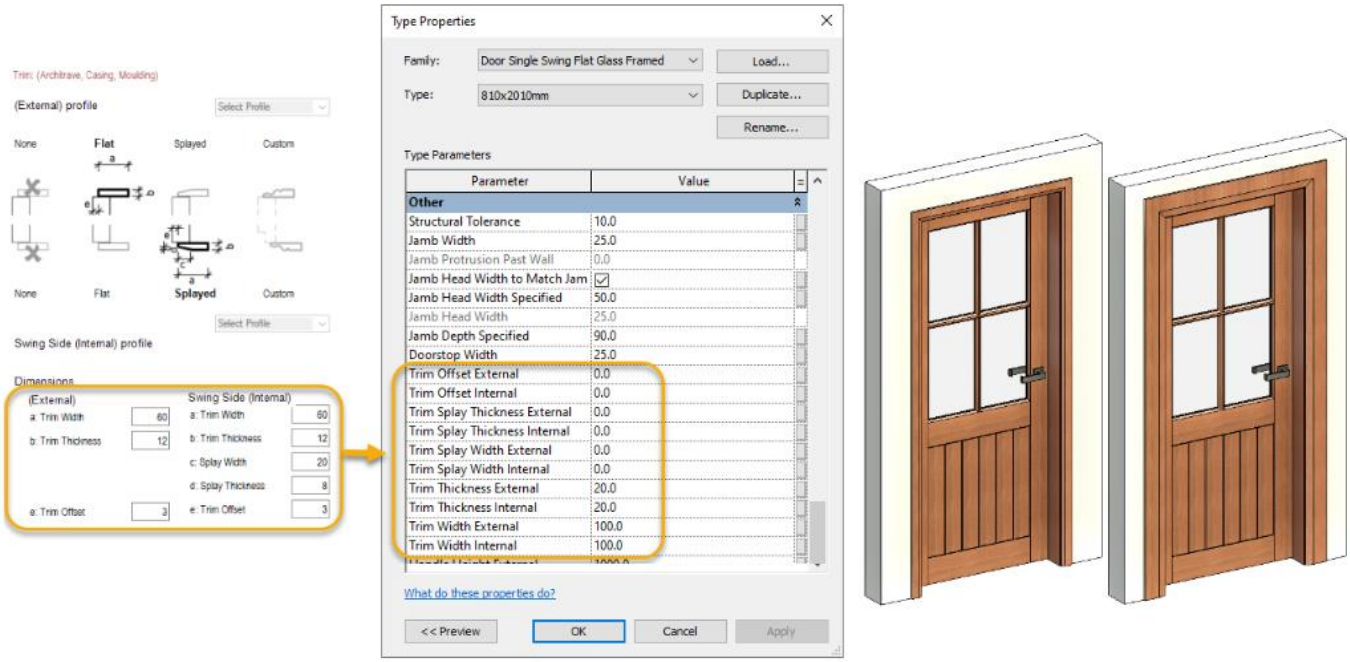
Handle Set-out Parameters:

Handle set-out parameters are now carried through to the final door family, allowing a Revit user to amend the handle set-out dimensions within Revit projects without having to create a completely new door from the Door Factory.



Trim Dimensional Parameters:

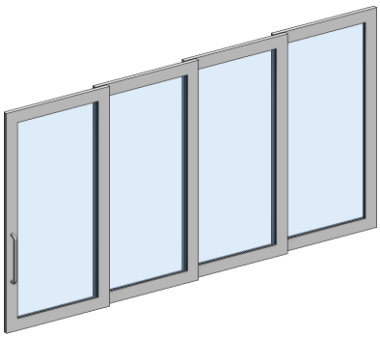
Trim dimensional parameters are now carried through to the final door family, allowing a Revit user to amend flat and splayed trim dimensions from within Revit projects.



Hint: You can turn a flat trim into a splayed trim by amending the splay dimensional parameters (i.e., change the splay dimensions from 0mm), and vice-versa!

Multi-panel Sliding Door Handles

Users can now add handles to multi-panel sliding doors (surface, contained and pocket sliders)



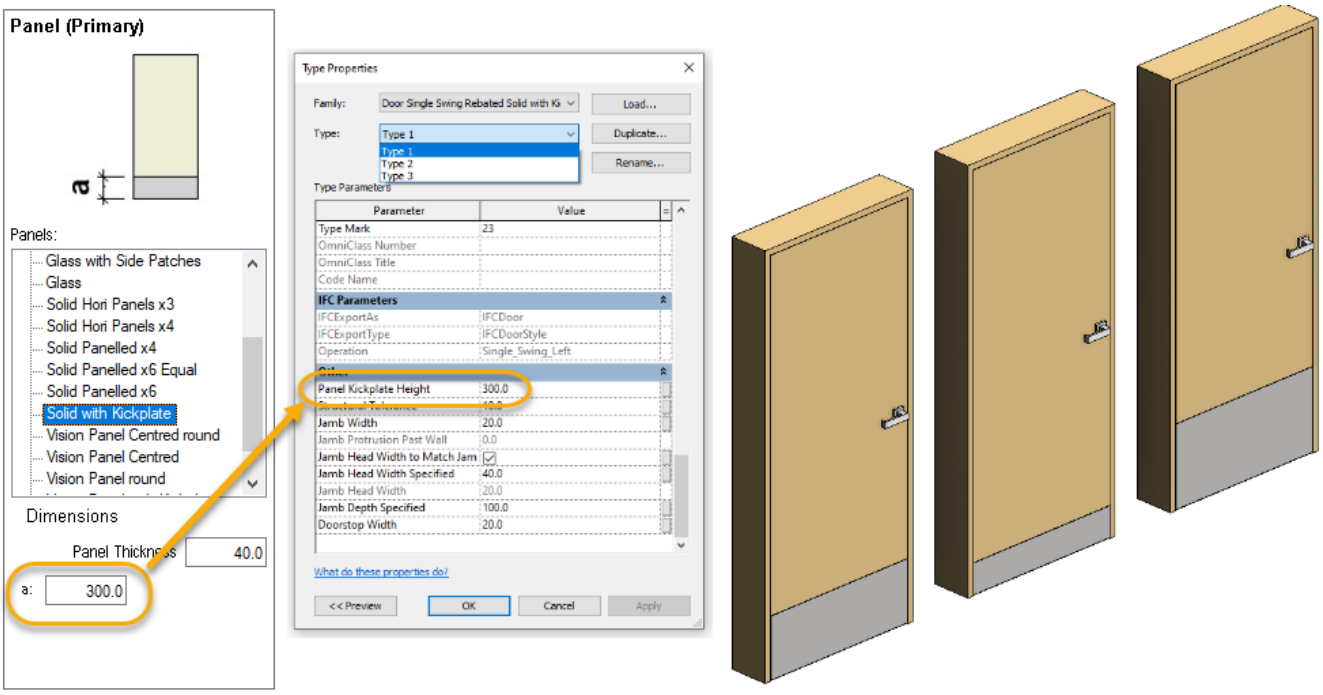
Built for speed

Door Factory optimised, shaving 10-20% off the build time.

New Features introduced for Revit 2022, 2021 and 2020

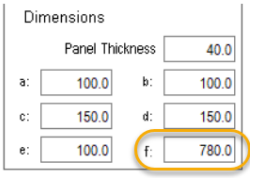
Panel Specific Parameters:

Panel specific parameters are now carried through to the final door family, allowing a Revit user to amend them within Revit projects and create new types to suit without having to create a completely new door from the Door Factory.

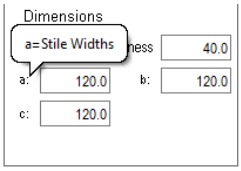


Other “panel specific parameter” new features:

1. Panels can now have 6 user defined fields (one more than previously), giving more flexibility within your panels:



2. Useful tooltips have been added when hovering over parameters within the Door Factory, visually linking the letter to the parameter name:



“Jamb Material” Parameter:

The “Jamb Material” parameter is now a shared parameter, allowing for it to be scheduled from within your project.

New Features introduced for Revit 2021, 2020, 2019 and 2018

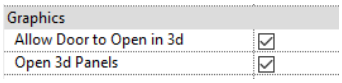
Open Doors in 3d

Users can now open most doors in 3d for visualization purposes (i.e. 3d scenes and walkthroughs) on an instance-by-instance basis.

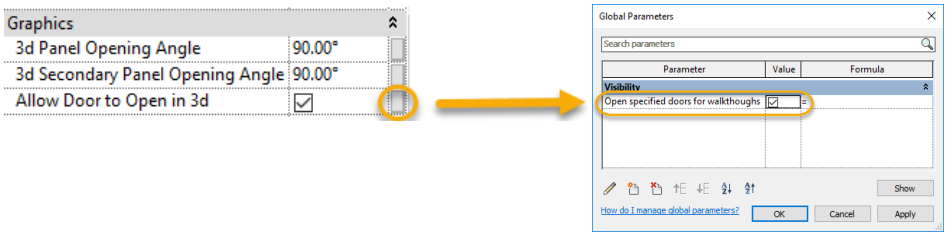
Pivot and hinge doors:

Double Pivot and hinge doors:

Sliders and Bifolds:



Recommended use: **Link the "Allow Door to Open in 3d" parameter through to a global parameter**



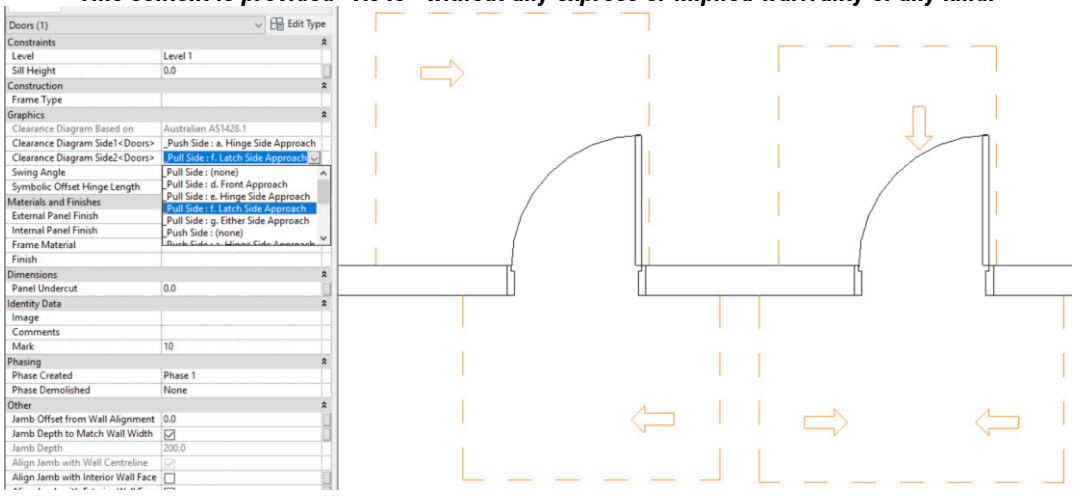
If the doors are linked through to a global parameter of your choice, with one tick a user can open all the required doors for their 3d scene, and then close them again afterwards – this is very important to be able to control globally (i.e. with one-click it opens or closes the required doors project wide). If you don't link through to a global parameter, it is time consuming and error-ridden to open and close each door manually: if you miss closing some, your elevations and sections will show them open, which is generally an undesirable result.

Clearance Diagrams

Users now have the option of adding American ADA 2010 or Australian AS1428.1 2d clearance diagrams to their doors.

While we have done our best to ensure the clearance diagrams we have created follow the specified standards, RevitWorks Ltd expressly disclaims any warranty for this content.

This content is provided "As Is" without any express or implied warrranty of any kind.

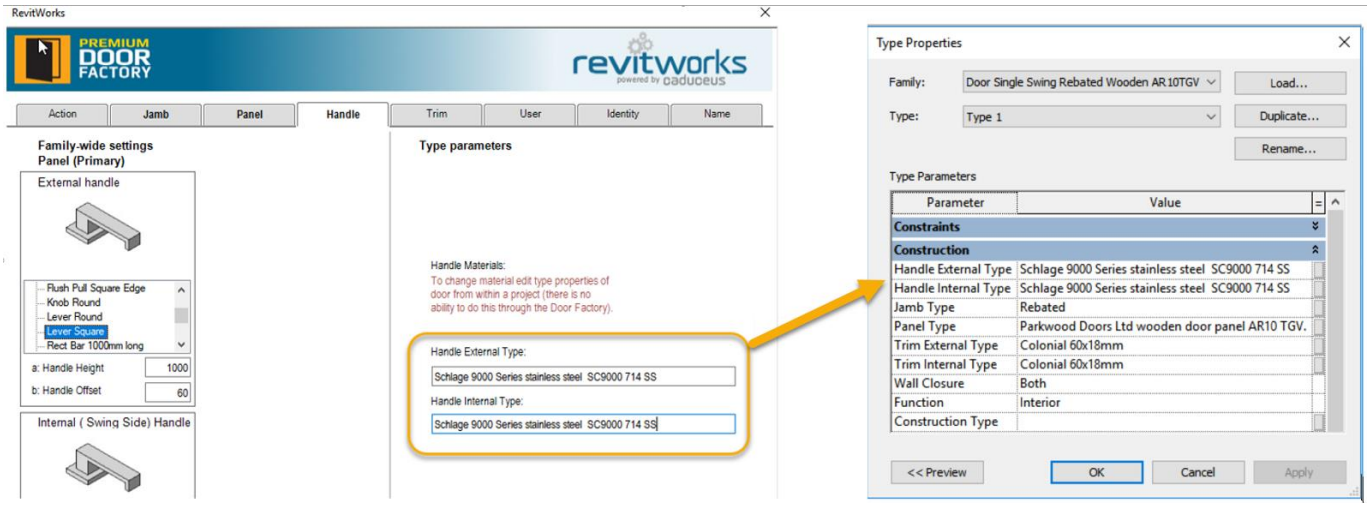


Please refer to this help file for setup and use notes.

New Features introduced for Revit 2019, 2018 and 2017

Specification Items

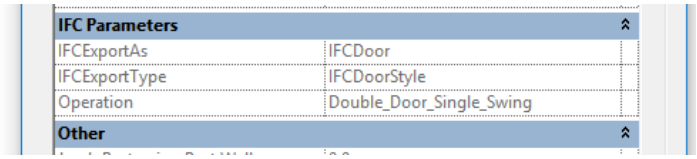
Users can now add specification items to panels, handles, trims and jambs. These are added to the door families as shared parameters, allowing them to be scheduled. *(These parameter values are still editable within the Door Factory and/or within the Revit project)*



Users can pre-populate panel and handle components by adding the specification items to the “Description” parameter within the component itself, allowing for fast automatic specifications added to the doors during their creation

IFC Parameters added

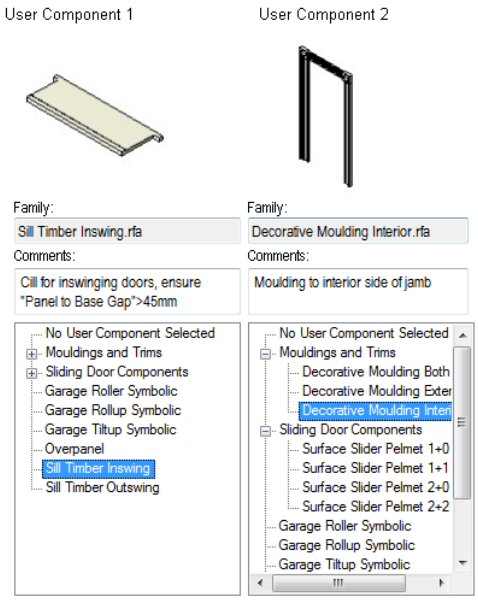
As well as the IFC “Operation“ parameter, “IFCExportAs” and ‘IFCExportType” shared parameters and their correct values are added to all doors created. This ensures that the export category for these doors is not determined by the Revit IFC options, eliminating user error during the IFC export process.



New Features introduced for Revit 2018, 2017 and 2016

Sub-Directories

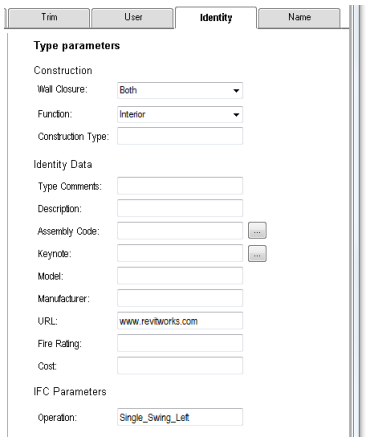
Users can now create subdirectories within the Handle, Panel and User component directory and they will show in the relevant Tabs (to allow for easier navigation and order during component selection)



Identity data

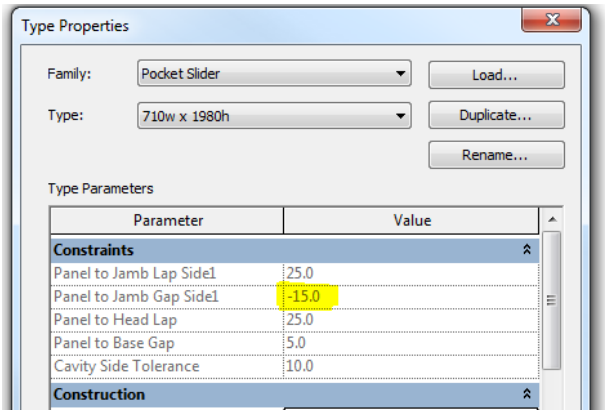
Assembly Codes and Keynotes can now be inputted within the Door Factory.

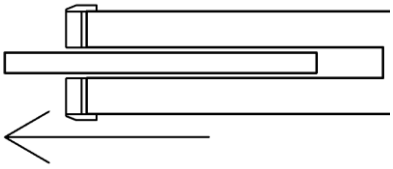
Identity tab re-designed to allow for larger viewing fields of parameter values.



Panel to Jamb Gaps

Door Factory now accepts negative values for Panel to Jamb Gaps allowing for pocket sliders to pocket into its closing jamb.





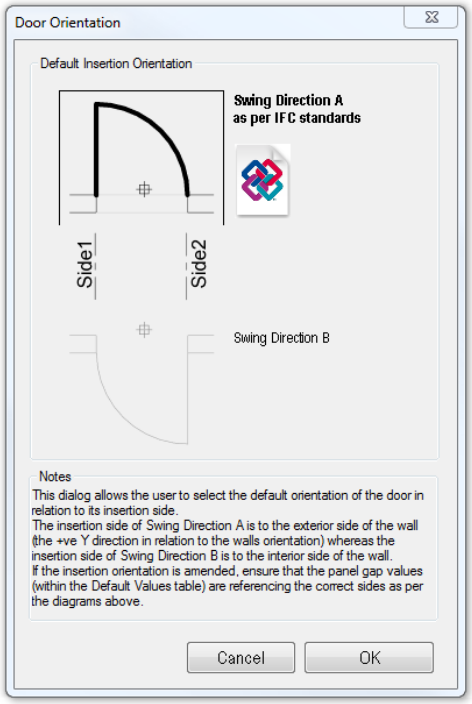
New Features introduced for Revit 2016

Default Door Orientation (build 16.2.3 onwards)

Default Orientation button added (under Default Settings dialog) allowing users to select the default orientation of the door in relation to its insertion side.

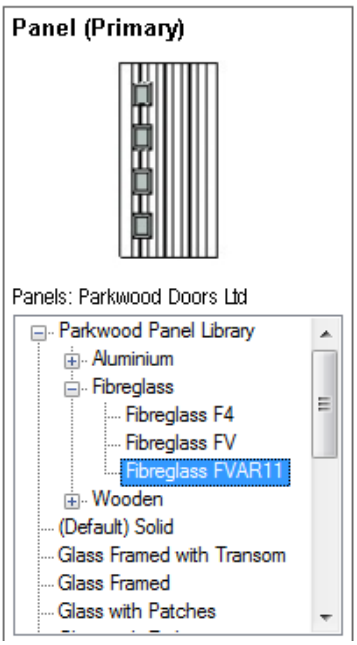
This defaults to the opposite of the traditional Door Factory door directions to follow IFC standards.

To change back to traditional Door Factory directions, select Swing Direction B.



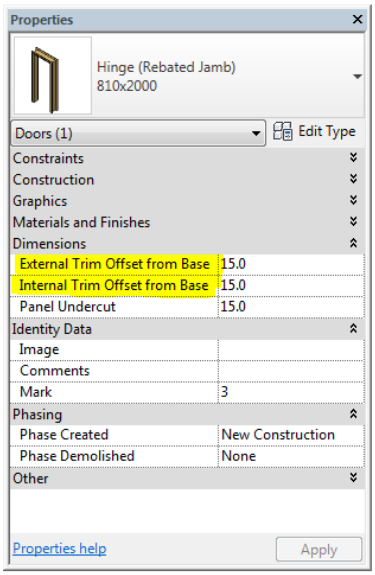
Sub-Directories (build 16.2.3 onwards)

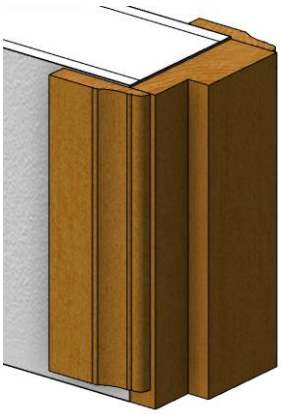
Users can now create subdirectories within the Panel directory and they will show in the Panel Tab.



Trim Base Offsets:

Trims can now be offset from the base of the door, allowing for floor finishes to continue under them.

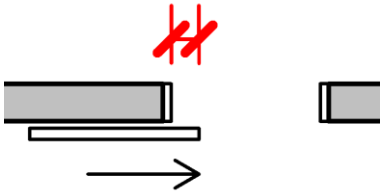


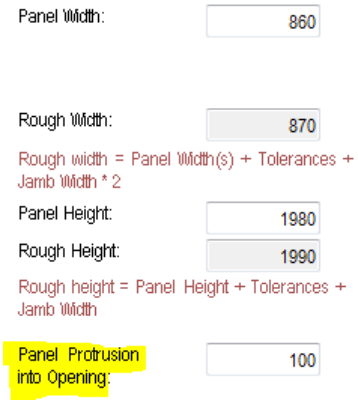


Panel Protrusion into Opening:

'Panel Protrusion into Opening" parameter value (for sliding doors)

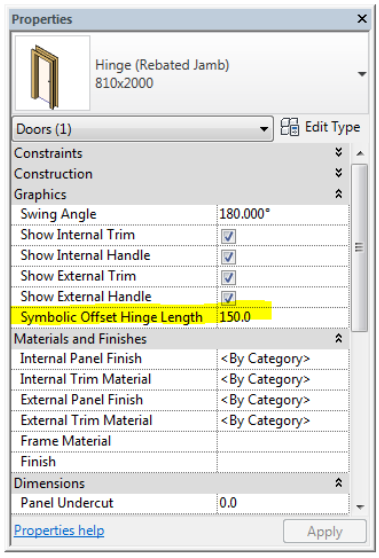
is now editable from with the Door Factory Panel Tab:

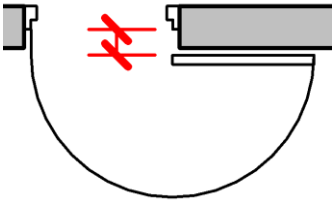




Offset Hinges:

Single and double swing hinge doors plan swings can now have symbolic offset hinges; this allows for the swing representation in plans to be offset to suit deeper walls.





Family Sizes

Doors now go through a more rigorous process during their build to ensure their family sizes are as small as possible

User Component Parameters

The following additional parameters are now linked through from within the User Components (if they exist), allowing for more versatility within the parametric components:

Doorstop Width

Panel Width

Pivot Offset

Panel Protrusion into Opening (for sliding doors)

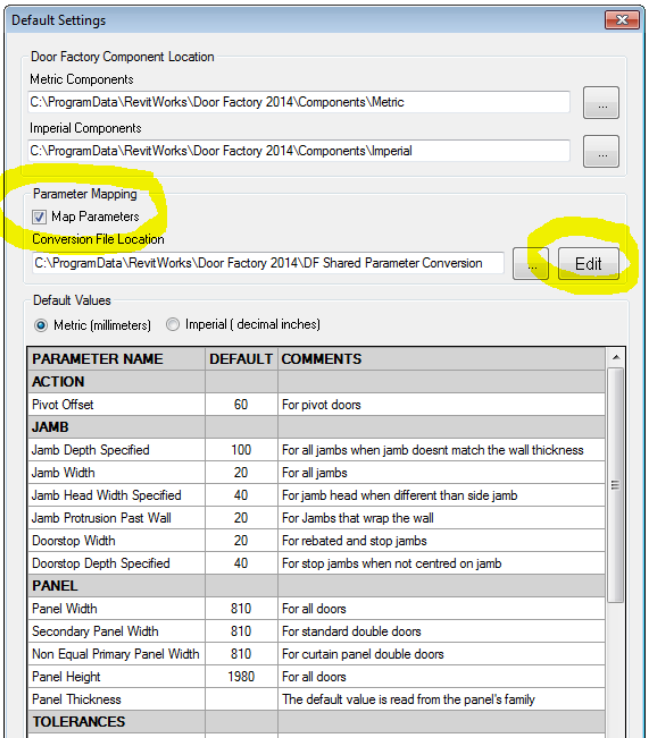
Panel to Panel Gap

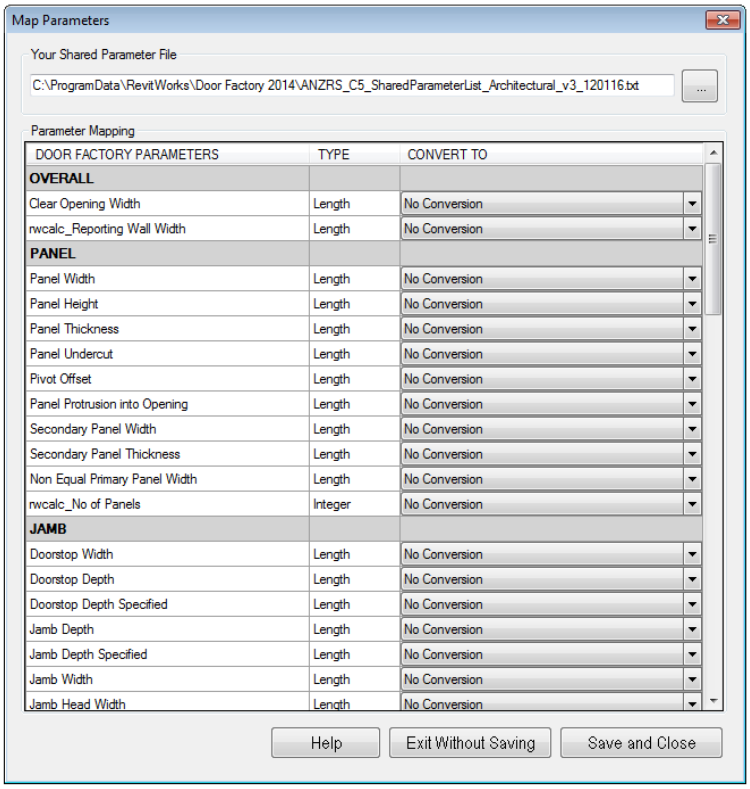
Secondary Panel Width

New Features Introduced for Revit 2015

Parameter Mapping:

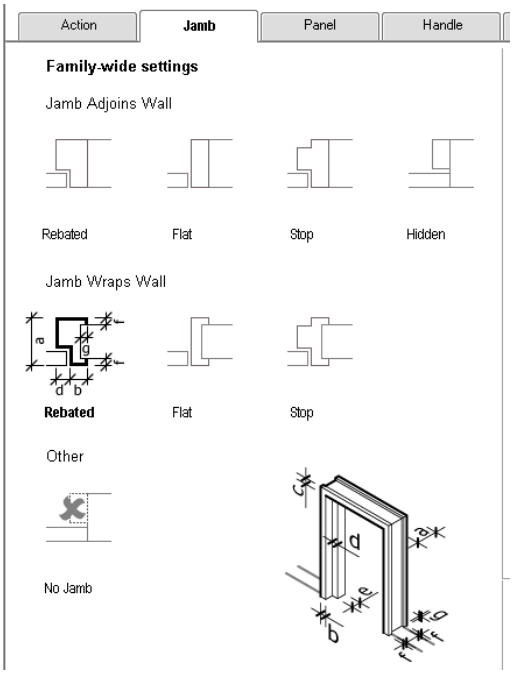
The Door Factory now allows all Door Factory parameters to be converted to your shared parameter naming conventions during the Door Factory door creation process (under "Default Settings" dialog).

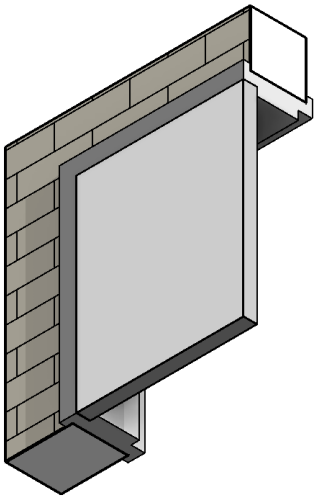




Jamb Types added:

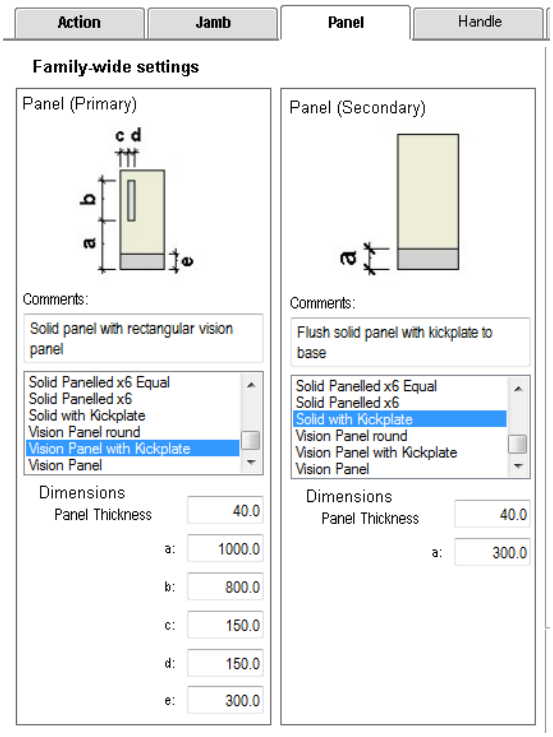
All doors are now available with wrapping jambs (ie: Jambs that wrap the wall)

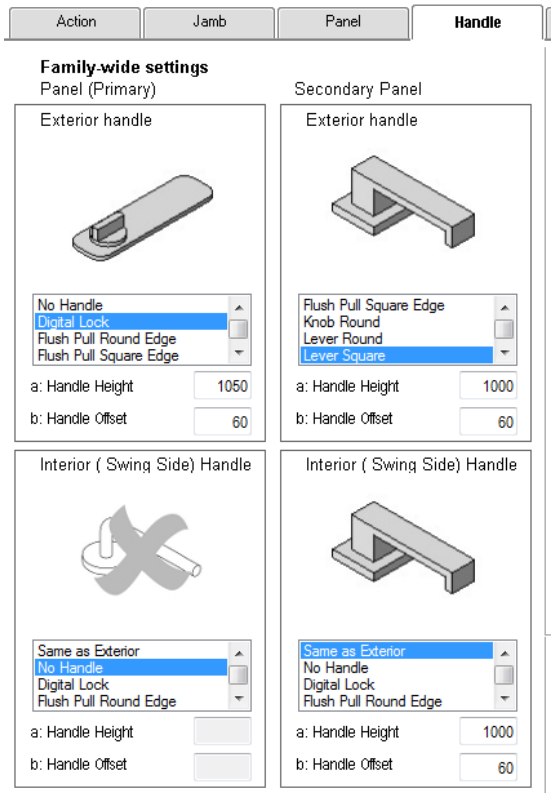




Double Door Panels:

All double doors (Hinge, Hatch, Pivot and 1+1 sliding doors) can now have different panels and handles to each leaf:

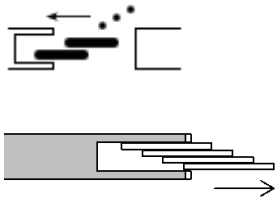


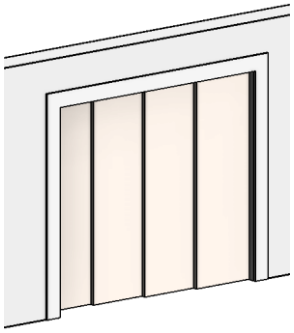


Actions added: (Ships with 44 different door actions)

The Door Factory ships with the following *extra* action:

Multi Pocket Slider (with a user-adjustable "No. of Panels" parameter)



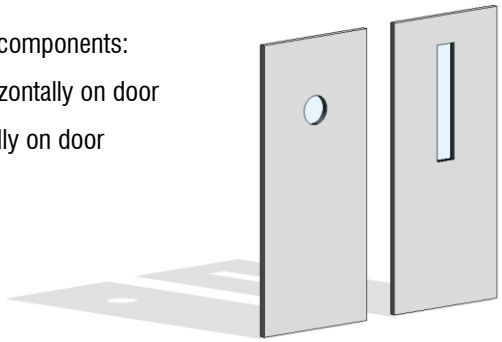


Components added: (Ships with 18 different panels, 11 handles, 11 trims and 13 user components, all of them customisable and you can still add your own)

The Door Factory ships with the following *extra* components:

Panels: Vision Panel (rectangular) centred horizontally on door

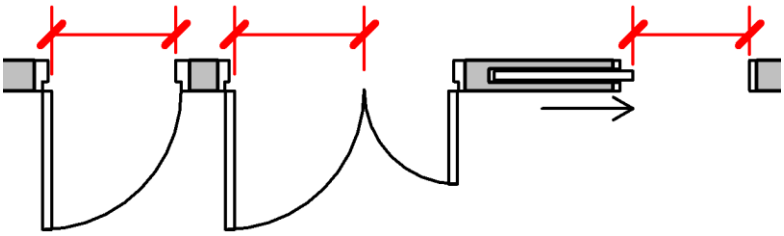
Vision Panel (round) centred horizontally on door



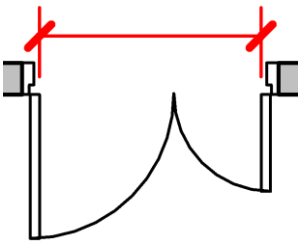
Parameters added:

The Door Factory now creates doors with the following additional parameters:

Single and Double Doors: **Clear Opening Width**

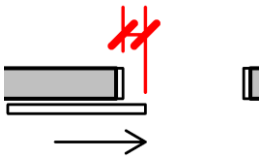


Double Doors: **Clear Overall Opening Width**



Sliding Doors: **Panel Protrusion into Opening**

(when the door is 100% open)



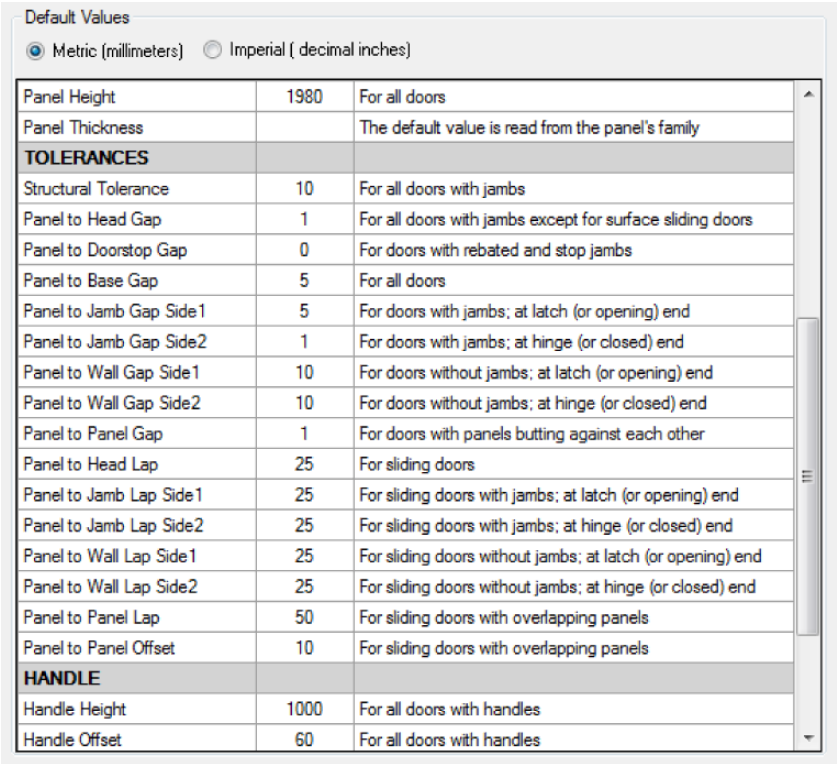
Parameter amendments:

All the doors major dimension parameters are now editable in the final family including Panel Thickness, Structural Tolerance and Jamb Dimensions (including Doorstop Width).

Door furniture material parameters are now type based.

Parameter Default Values:

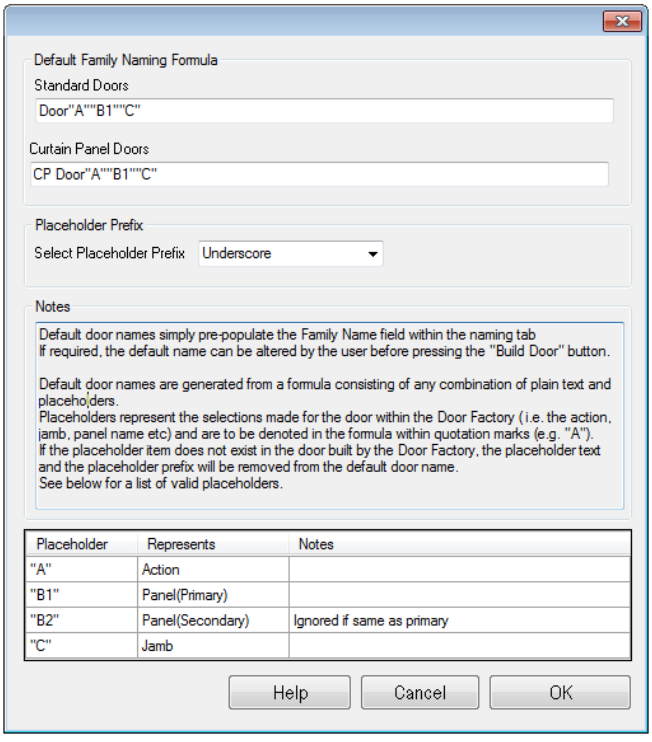
One can now set different Panel Tolerances for either side of the door within the Default Values to allow for further accuracy within the door creation without having to change the tolerances from within the Panel Tab (i.e. Generally the Panel to Jamb Gap at the hinge side of the door is different than the Panel to Jamb Gap at the latch side of the door)



Panel Height	1980	For all doors
Panel Thickness		The default value is read from the panel's family
TOLERANCES		
Structural Tolerance	10	For all doors with jambs
Panel to Head Gap	1	For all doors with jambs except for surface sliding doors
Panel to Doorstop Gap	0	For doors with rebated and stop jambs
Panel to Base Gap	5	For all doors
Panel to Jamb Gap Side1	5	For doors with jambs; at latch (or opening) end
Panel to Jamb Gap Side2	1	For doors with jambs; at hinge (or closed) end
Panel to Wall Gap Side1	10	For doors without jambs; at latch (or opening) end
Panel to Wall Gap Side2	10	For doors without jambs; at hinge (or closed) end
Panel to Panel Gap	1	For doors with panels butting against each other
Panel to Head Lap	25	For sliding doors
Panel to Jamb Lap Side1	25	For sliding doors with jambs; at latch (or opening) end
Panel to Jamb Lap Side2	25	For sliding doors with jambs; at hinge (or closed) end
Panel to Wall Lap Side1	25	For sliding doors without jambs; at latch (or opening) end
Panel to Wall Lap Side2	25	For sliding doors without jambs; at hinge (or closed) end
Panel to Panel Lap	50	For sliding doors with overlapping panels
Panel to Panel Offset	10	For sliding doors with overlapping panels
HANDLE		
Handle Height	1000	For all doors with handles
Handle Offset	60	For all doors with handles

Default Naming:

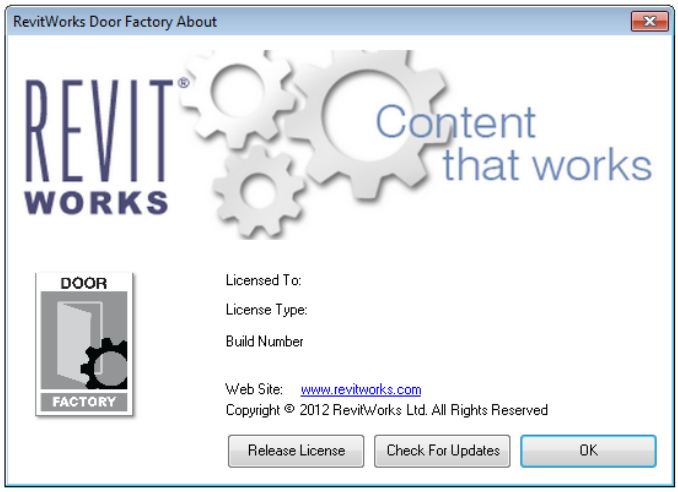
The Door Factory now allows you to setup default names. This default pre-populates the name of the door in the Name tab.



Placeholder	Represents	Notes
"A"	Action	
"B1"	Panel(Primary)	
"B2"	Panel(Secondary)	Ignored if same as primary
"C"	Jamb	

About:

An About button is now available within the Start Tab, allowing one to check for updates (the Release License button is now within here).

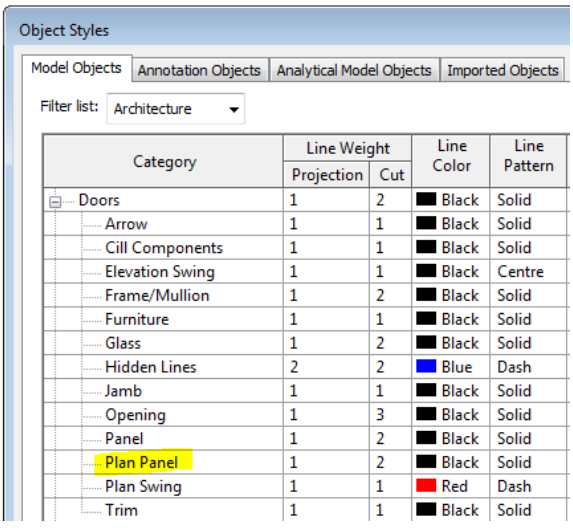


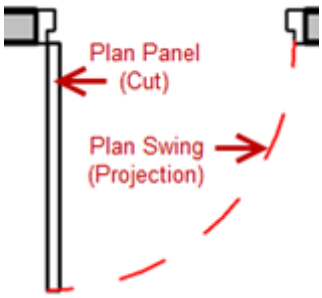
New Features introduced for Revit 2014 & V2.1 (for Revit 2013)

Symbolic Plan Graphics:

The symbolic line work for the panel within plan views is now on its own sub-category "Plan Panel (Cut)" to allow the panel to be shown differently than the swing.

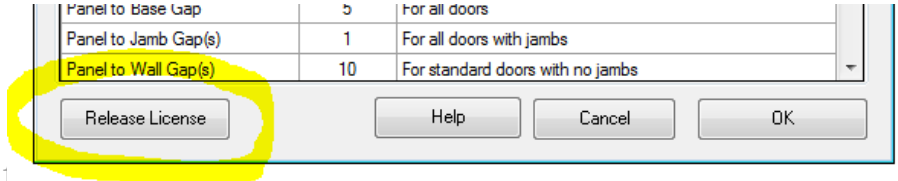
In previous versions the symbolic line work for the panel was on sub-category "Plan Swing (Cut)" and the swing line was on "Plan Swing (Projection)". This allowed the panel and swing to have different Line Weights but they had the same Line Colour and Line Pattern. Now the Door Factory has an independent graphical control for both the Panel and Swing that can be defined for all plan views within Object Styles rather than having to use a View Override or View Template.





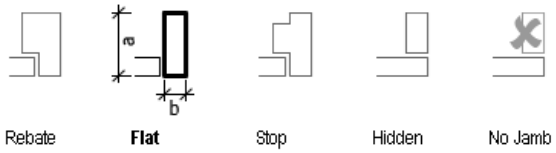
Release License:

A Release License button is now available within the Default Setting dialogue box, allowing one to easily move the licence key to another PC (please note that an Internet connection is required).



Flat Jambs:

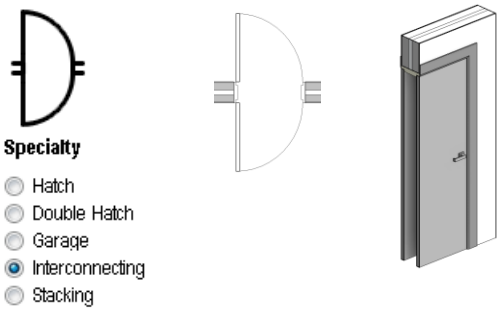
All doors are now available with flat jambs (Flat jamb option has been added to Single Swing, Double Swing, Hatch, Double Hatch and all Bifolds)



Actions added: (Ships with 43 different door actions)

The Door Factory ships with the following *extra* action:

Interconnecting door (i.e. Used for interconnecting hotel rooms)



New Features Introduced for Revit 2013

The RevitWorks Door Factory has had a makeover. There are more door configurations, options and components and features an improved graphical interface.

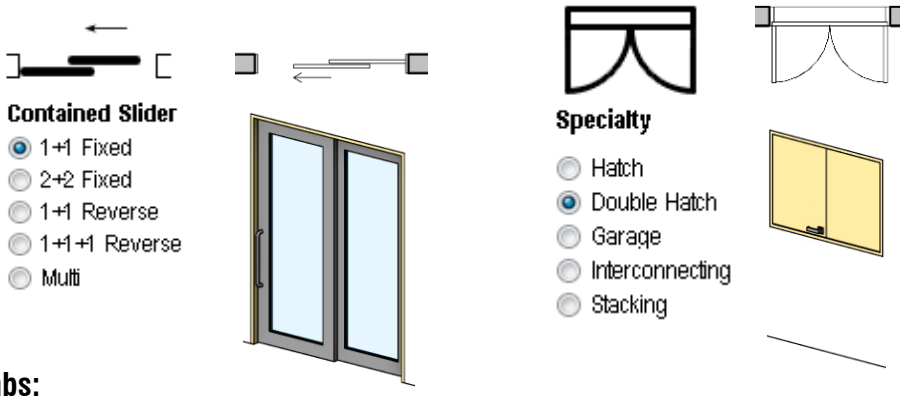
Please note: User components from version 1 are incompatible with version 2. If you need help converting them to version 2, please email us at support@revitworks.com.

Actions added: (Ships with 42 different door actions)

The Door Factory ships with the following *extra* actions:

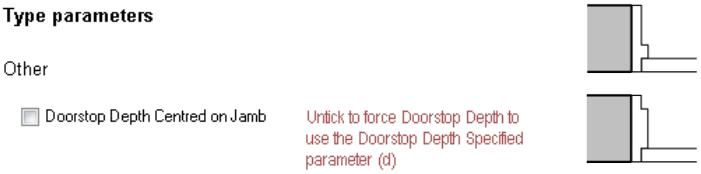
Contained sliders: 1+1 Fixed, 2+2 Fixed (i.e. the end panel is fixed) and Multi

Single and Double door hatches (i.e. jambs and trims to all 4 sides)



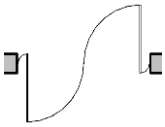
Stop Jambs:

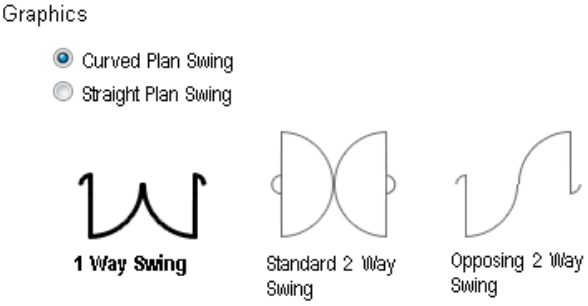
All doors with stop jambs can now have the doorstop depth centred on the jamb (compared to having it as a specified depth)

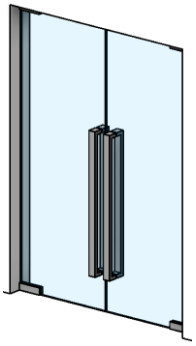


Opposing Swings:

Double Swing and Pivot 2-way Doors can now have Opposing Swings

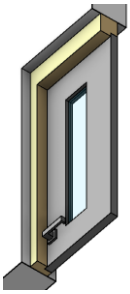


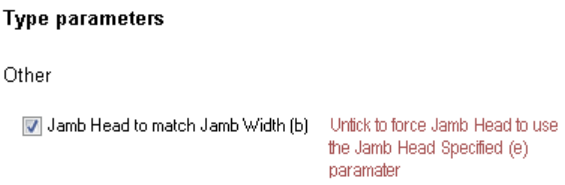




Jamb Head Width:

All doors can now have the jamb width to the head of the door specified separately from the jamb width to the sides of the door (defaults to be the same)





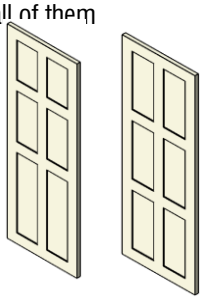
Extra Components:

(Ships with 16 different panels, 11 handles, 11 trims and 13 user components, all of them customisable and you can still add your own)

The Door Factory ships with the following *extra* components:

Panels: Solid with x6 variable panels

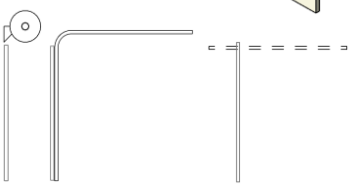
Solid with x6 equal panels



Handles: Round Knob

User Components:

Garage roller, roll-up and tilt-up doors: symbolic plans and sections



Overpanel and Decorative Mouldings (Interior, Exterior and both

Curtain Panel Doors with User Components:

User components are now available for curtain panel doors