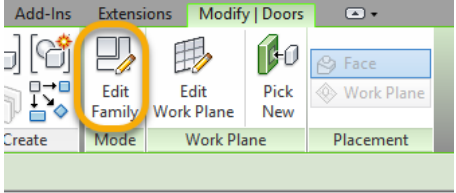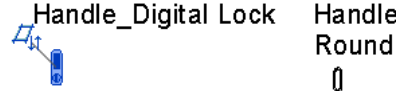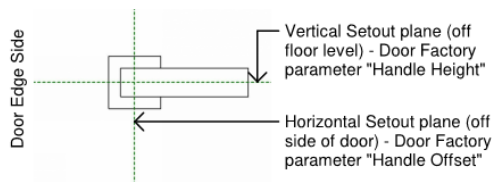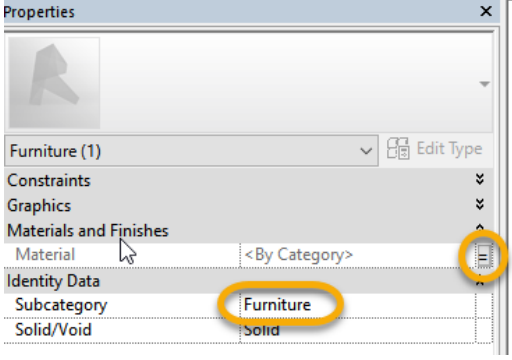# Door Factory Standard - How to Create a New Handle

Instructions for creating new handles for use within the RevitWorks Door Factory Doors.

The procedures below require a good understanding of Revit's built-in family editor techniques.

Refer to Handle Swapping Document for instructions on how to load your new panel into an existing RevitWorks Door.

Procedure:

#	Item	Notes/ Explanation
1.	**Open an Existing RevitWorks Handle** Within the RevitWorks Standard Doors project file, select a handle that is the closest match to the handle you want to create and "Edit Family". *Do not start from scratch using a Revit family template – when swapping the handles into a RevitWorks panel the handle needs to be setup in a consistent "RevitWorks" way to swap easily.*	
2.	**Amend Handle** Within the Family Editor: • When modelling the handle, consider the Floor Plan: Ref Level view to be the same as the door panel elevation: the handles are work-plane based so when the handle is placed as a nested component the Ref.Level work-plane is mapped onto the correct surface of the host model (i.e. the face of the door panel) • Ensure relationship to setout planes are retained correctly. • Ensure orientation is as desired • Modify the existing extrusions and voids to create the desired panel (if possible) or delete and start again. • Create the handle as a static model that does not flex – do not create new types. • Ensure all modelled elements are subcategory "Furniture". • Ensure all modelled elements materials are linked through to "Furniture Material" • Check the view "Preview", change if required to create a clean preview.	

Content that works

#	Item	Notes/ Explanation
3.	**Save As** "Save As" and give the handle new name. You handle is now ready to be loaded into a RevitWorks panel.	

Important Notes:

The following notes are important to ensure that the swapping procedure for handles into RevitWorks panels are consistently easy:

1. Do not add more Family Types, or change the family type name "Handle"

2. Do not amend the extrusions 3d/plan/elevation visibility settings - this is controlled elsewhere within the panel family.

3. Do not use any Length parameters. If difference lengths are required, create a new handle with a different length and name appropriately.

4. Please contact support@revitworks.com for help if required.