GF Revit

Getting started

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1.   Why GF Revit content?

1.1. Generic vs. GF Piping Systems Revit content

The table below (Table 1) compares standard Revit and GF Revit content.

Standard Revit content	GF Piping Systems Revit content
▪ Any size is allowed ▪ Generic data and limited shapes ▪ Only standard plumbing components	▪ All available sizes and angles from the catalog ▪ Accurate dimensions ▪ Includes article numbers ▪ Includes various adapter components ▪ Error indication ▪ Clearance zones for valves ▪ Direction-sensitive for valves ▪ Non-standard components ▪ Includes necessary technical data ▪ COBie parameters ▪ CIBSE parameters ▪ Revit standards foundation parameters ▪ IFC parameters ▪ GF product validation view ▪ GF custom schedules ▪ GF custom tags ▪ User instructions

Table 1: Comparison of standard and GF Piping Systems Revit content

2.   General Information

2.1. Overview of GF Piping Systems Revit content

▪ Revit content from GF Piping Systems contains 3D elements as well as ancillary items such as tags, along with custom GF schedules for pipes, fittings and accessories. It also includes warning signs for customized products and the product check view for the validation of GF products.

▪ Users should follow the guidelines to get all advantages from the Revit content of GF Piping Systems.

▪ The Revit packages of GF Piping Systems include the essential information taken from COBie, CIBSE and Revit Standards Foundation.

2.2. Pipes and Pipe Fittings

▪ To start a design with GF Piping Systems choose your required pipe type as well as diameter (nominal).

▪ Changing a direction of a pipe in a piping system will automatically trigger the insertion of pre-defined GF pipe fittings with the desired and available angles.

▪ For further information please refer to the relevant paragraphs.

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2.3. Orientation management and different types of fittings

- With Revit content from GF Piping Systems a user can easily handle the orientation and substitution of fittings and accessories.

- Creating a non-existing fitting will generate a customized pop-up warning message and a red exclamation mark.

2.4. Completed solutions for accessories and fittings

GF Piping Systems provides unique solutions for fittings and accessories. Using GF Piping Systems Revit content with a few clicks, you will be able to apply couplers to some fittings as well as flange adaptors to certain types of valves. Easy, quick and effective!

2.5. Always use the updated packages

Revit packages from GF Piping Systems will be regularly updated, therefore, users should make sure they have the newest version of the package. Revit packages contain data for package releases as well as modification data at family-level. Users can get notifications via email if they opt to get updates on https://bim.gfps.com (Image 1)
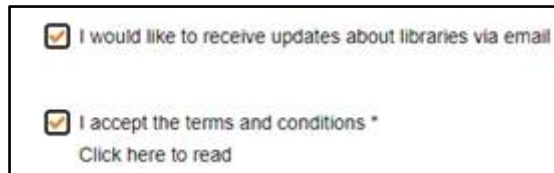

Image 1: Option to receive the notifications for the update

Once users opt for notifications, the only thing they need to do is to select all files they would like to get update notifications for (Image 2)
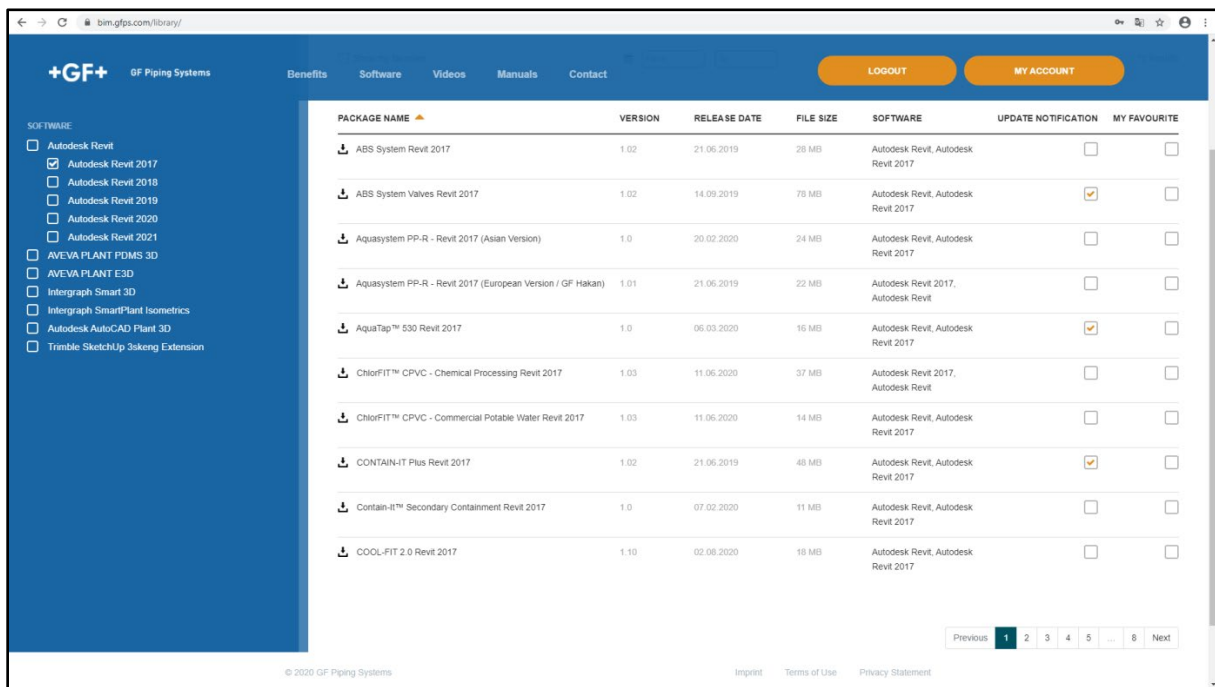

Image 2: Selection of files for update notification

3.   How-To Guide

3.1. Introduction

GF Revit content contains more than standard Revit pre-modelled families; therefore, we recommend to follow the instructions for transferring all the needed data into your project to maintain all the benefits offered by GF Piping Systems.

3.2. How to transfer GF Revit products into a Revit project

To transfer GF Revit products:

1.   Open a GF Piping Systems Revit package
2.   Select pipes from the GF Piping Systems Revit package and click 'Copy to Clipboard' (Image 3)
3.   Open your Revit project where you would like to copy the package and click 'Paste from Clipboard' (Image 4)
4.   Once the copying process starts, messages for 'Duplicate Types' will pop up (Image 5)
5.   After copying is completed, part of the GF Piping Systems package is transferred into your Revit project together with pre-defined routing preferences and preferred pipe fittings
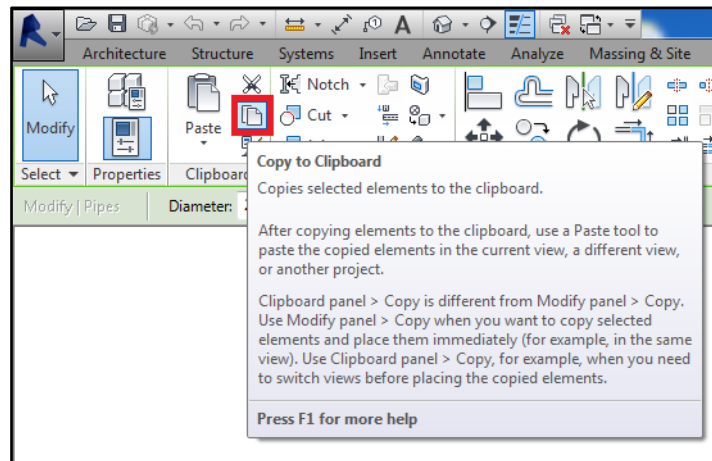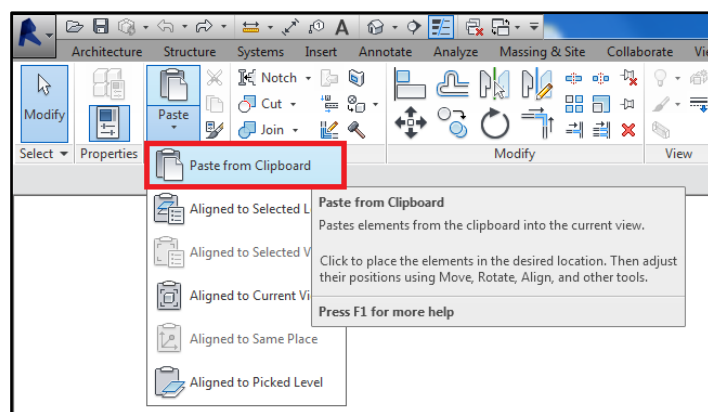

Image 3: Copy to Clipboard
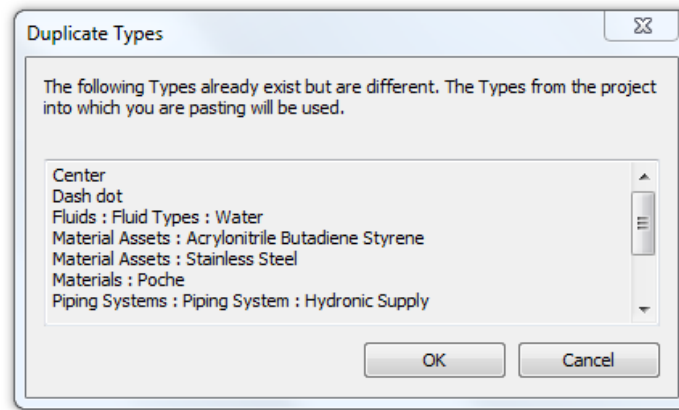

Image 4: Paste from Clipboard

Image 5: Duplicate Types message copying pipes

3.3. How to transfer other GF Piping Systems Revit families into a Revit project

Copying pipes from the GF Piping Systems Revit package to another Revit project transfers all preferences and fittings from one file to another. However, some fittings as well as pipe accessories will not be copied as they are not included in routing preferences. To transfer those families please copy them separately.

3.4. How to transfer GF Piping Systems Revit schedules into a Revit project

To keep article numbers of pipes in Revit you can easily copy customized GF Piping Systems schedules into your project. To copy customized schedules:

1. Open the GF Piping Systems Revit package
2. Select pipes and pipe components from Schedules/Quantities and click 'Copy to Clipboard' (Image 6)
3. Open your Revit project where you would like to copy the GF schedules and click 'Paste from Clipboard' (Image 4)
4. Once the copying process starts, a message for 'Duplicate Types' will pop up (Image 7)
5. When the copying procedure is completed, the GF Piping Systems Revit customized schedule will be transferred into your Revit project and will be ready to use
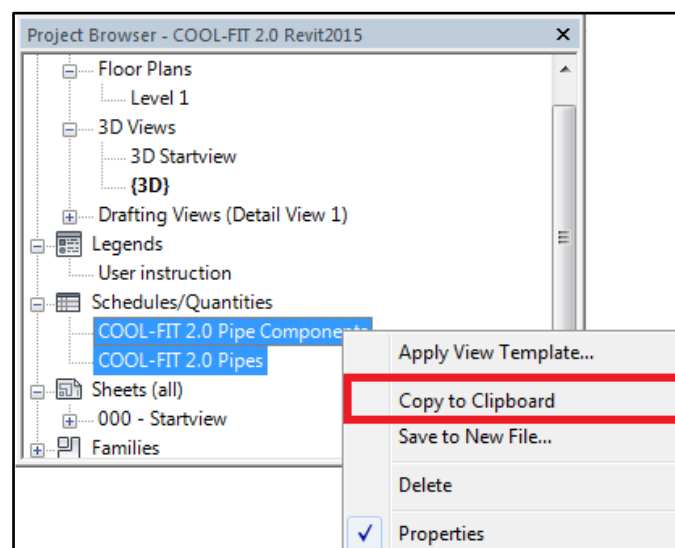

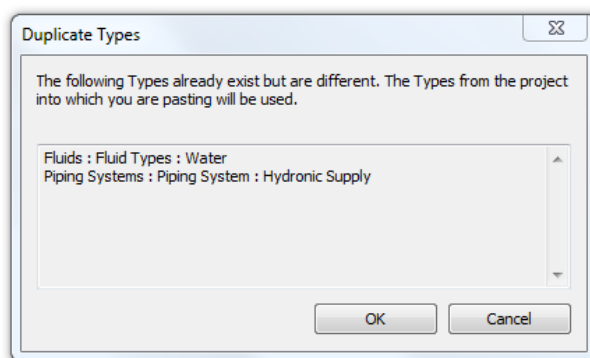Image 6: Copy to Clipboard from Project Browser

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Image 7: Duplicate Types copying schedules

3.5. How to transfer GF Piping Systems Product Check View into a Revit project

GF Piping Systems product check view helps identify all GF products as well as customized products. For further information, please see page 9.

To insert a GF Piping Systems Product Check View:

1. Open your Revit project file as well as the GF Piping Systems Revit package
2. Once your Revit project file is opened from the Manage tab click 'Transfer Project Standards'
3. Once a table is opened click 'Check None' and select only 'View templates'. Please make sure the standards are copied from GF Piping Systems Revit project
4. Click OK
5. In the Revit project file duplicate 3D view
6. Select duplicated 3D view, find 'View template' in a 'Properties' palette and choose 'GF Piping Systems Product Check'
7. Click Ok to enable this function

3.6. How to transfer GF Piping Systems Revit tags into a Revit project

To copy GF Piping Systems tags:

1. Select a GF Piping Systems tag once a GF Piping Systems Revit package is opened
2. In the Modify|Pipe Fitting tags find the 'Mode' toolbox and click 'Edit Family'
3. Once the family is opened click 'Load into Project and Close'

3.7. How to re-load updated existing GF Piping Systems families into a Revit project

To re-load updated existing Revit families of GF Piping Systems:

1. Download the latest Revit file from https://bim.gfps.com
2. Open the file and save the updated Revit families in the desired folder on your PC
3. Open the project where you would like to re-load the existing Revit families
4. Once your Revit project file is opened from 'Insert tab', click 'Load Family' and select all updated families you would like to re-load
5. Finally, click 'Open' to re-load the updated files