

Fabrication Profiles: How Do You Manage Your Database Without Them?

William Tucker

BIM Trainer and Product Specialist

Josh Asche

BIM/CAD Integration Specialist

Class summary

Does your company have multiple locations, branches or divisions?
Does your Fabrication Database have multiple “Job Specific” Services?
Does your Fabrication Database have multiple “Job Specific” Pressure Classes, Insulation Specifications or Support Specifications? If you answered “Yes” to one of these questions, we have a solution for you. Using Autodesk Fabrication Profiles for each project is a great way to maintain the Autodesk Fabrication Database without the need for Project Specific Groups within the database. Utilizing Profiles will help maintain a clean database to eliminate temporary database entries. If you plan to use Fabrication Parts in Revit, this is a Must See.

Key learning objectives

At the end of this class, you will be able to:

- Understand the benefits of using profiles for both Fabrication Products and REVIT
- Know what parts of the database are Global Versus Profile specific
- Learn to create and manage profiles for use in Fabrication Products as well as REVIT
- Learn how to edit the profile for Project requirements for use in Fabrication Products as well as REVIT

What are Profiles?

- Profiles are like mini-databases within one database
- The Global profile is your main profile and this should be treated as a template.
- Create project specific profiles from the Global Profile
- Create a new profile for every project

Benefits:

- The main benefit is that using Profiles;
You will keep your main database (Global) very clean
- In your Global Profile you will not need Job specific;
 - Services
 - Service templates
 - Section
 - Sheet metal specifications
 - Support specifications
 - Insulation specifications

When you create Job Specific parts of your database, they linger forever and really increase the size of your database

Benefits:

- When working on a project the user will not need to choose from hundreds of services to determine which one to use for that project working in Fabrication products or REVIT
- When you need project specific service templates or specs, just modify the existing in the profile, no need to copy, rename and reassign.
- When a profile is created all database settings are static at that point in time.
- You can add your button mappings needed for REVIT accessories without needing to add them to the Global database

Cons:

- When a profile is created all database settings are static at that point in time.
 - Database information can be exported from Global and imported into the profile if needed.
 - Sheet Metal material pricing can be cumbersome

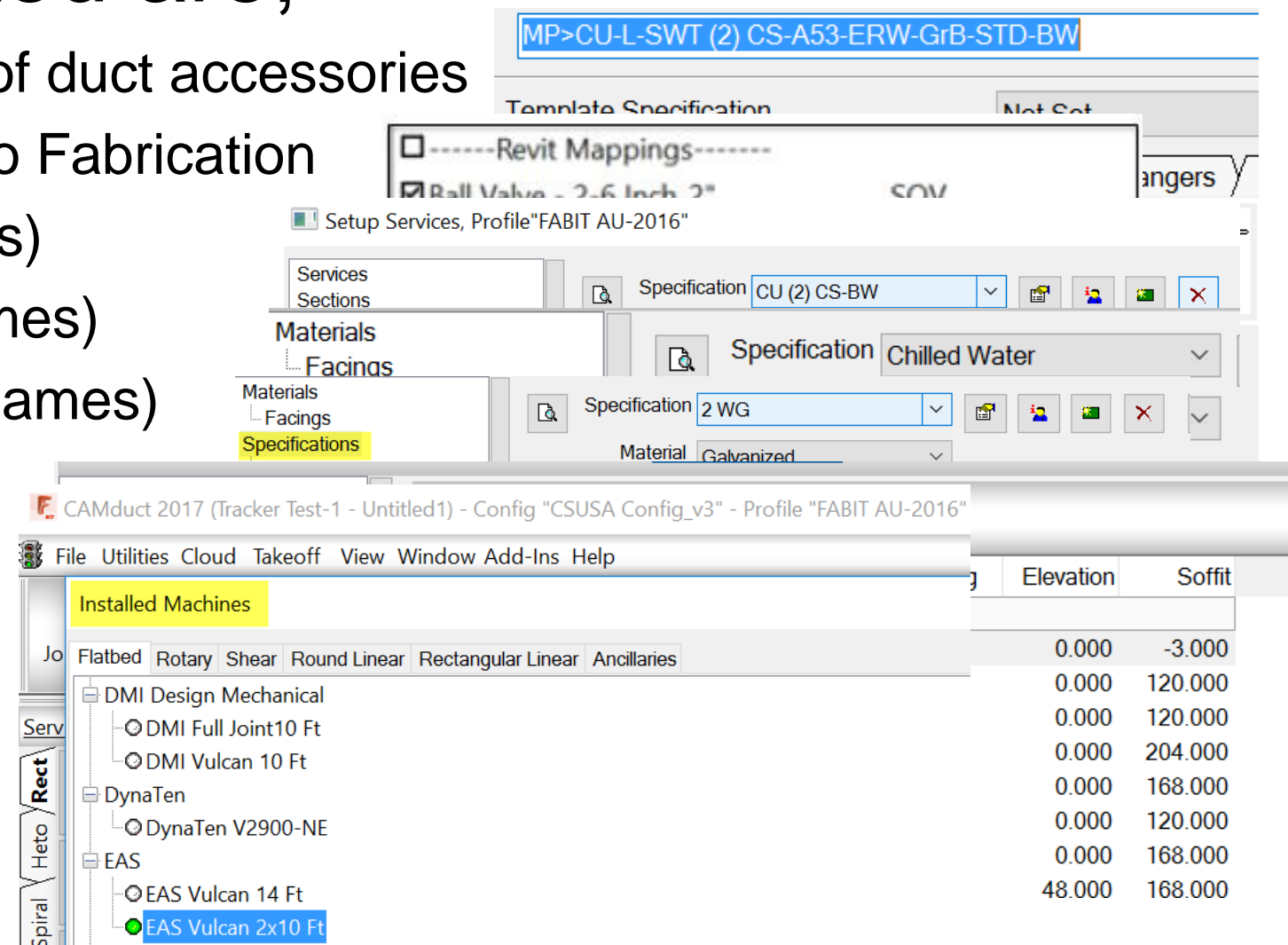
What parts of the database are Global Verses Profile specific

<u>Global_File</u>	<u>GlobExt</u>		<u>Profile_File</u>	<u>ProfExt</u>
address	map			
<u>Airturn</u>	map		<u>Airturn</u>	map
ANCILLRY	map		ANCILLRY	map
<u>BarCode</u>	map			
COLOURS	map			
<u>Connectr</u>	map		<u>Connectr</u>	map
Cost	map		Cost	map
Cutouts	map		Cutouts	map
DAMPER	map		DAMPER	map
Diameter	map		Diameter	map
<u>dwgdb</u>	map		<u>dwgdb</u>	map
EDGENEST	map			
<u>ETimes</u>	map		<u>ETimes</u>	map
FACINGS	map		FACINGS	map
<u>FTimes</u>	map		<u>FTimes</u>	map
<u>HSpecs</u>	map		<u>HSpecs</u>	map
<u>ISpecs</u>	map		<u>ISpecs</u>	map
<u>jobb</u>	map			
layers	map		layers	map
LEADS	map		LEADS	map
Material	map		Material	map
MCGROUPS	map			
NESTING	map		NESTING	map
Notches	map		Notches	map
Notes	map		Notes	map
<u>oglQTOdetail</u>	map			
OPENGL	map			
PARTNAME	map		PARTNAME	map
<u>pmdetail</u>	map			
Process	map			
<u>prodinfo</u>	map			

QDETAIL	map			
RESISTANCE	map		RESISTANCE	map
RESISTLINK	map		RESISTLINK	map
Seam	map		Seam	map
sections	map		sections	map
Service	map		service	map
SETUP	map		SETUP	map
Silencer	map		Silencer	map
Specs	map		Specs	map
splitter	map		splitter	map
STIFFNER	map		STIFFNER	map
<u>StressLd</u>	map		<u>StressLd</u>	map
SUPPLIER	map		SUPPLIER	map
SUPPORT	map		SUPPORT	map
TAKEOFF	map		TAKEOFF	map
TEXTATTS	map		TEXTATTS	map
TOOLDFLT	map		TOOLDFLT	map
All Machines	<u>mch</u>			
Machine	<u>cfg</u>			
buttons	<u>dat</u>			
products	<u>dat</u>			
scribe	<u>fnt</u>			
IMPORT	R2V			
PROFILE	R2V			
SOLIDART	R2V			
SOLIDSHAPES	R2V			
<u>toolbase</u>	txt			
Backup				
DECOILER				
Users				

What parts of the database are Global Verses Profile specific

- The parts of the database that should be the most commonly changed after a profile is created are;
 - Service Template to possible replace Piping of duct accessories
 - Service Button Mappings for REVIT Design to Fabrication
 - Hanger specifications (values only, not names)
 - Insulation specifications (values only, not names)
 - Sheet Metal specifications (values only, not names)
 - Sections
 - Default Machine (for Multiple shop locations)



Create and manage profiles for use in Fabrication Products as well as REVIT

- Creating a Profile
 1. Start With Global
 2. Name the Profile
 3. Copy Basic Database Only
 4. Share the same Item Files
 5. Select Sections
 6. Select Services

Create and manage profiles for use in Fabrication Products as well as REVIT

- Managing Profiles

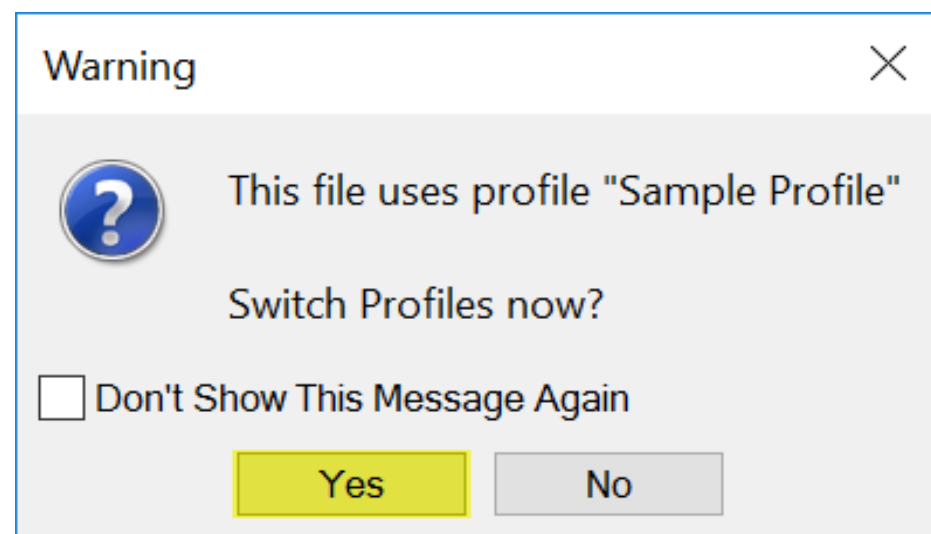
- Rules

- Do not try to work multiple drawings with more than one profile in the same session of AutoCAD. (This can cause the profile to become corrupted)
 - If you need two profiles use a separate session of AutoCAD for each profile.
 - Never work out of the Global profile, this is only for setup, testing and creating profiles from. Actually, this should be a rule for every Fabrication Database - Never work on a drawing logged in as Full/Admin.
 - In AutoCAD, always load the Fabrication application before opening a drawing.
 - Never double click on a drawing in window explorer to open a drawing

Create and manage profiles for use in Fabrication Products as well as REVIT

- Changing Profiles

- If you have the wrong profile loaded, when you open a drawing you will get a warning.
- “This Drawing uses “XYZ” Profile” Switch Profiles now?
- In this case, click “Yes”
- NEVER check the box “Don’t Show Me This Again”



Create and manage profiles for use in Fabrication Products as well as REVIT

■ Changing Profiles

- If you start working on a drawing using with the wrong profile loaded.

- Save and Close the drawing.

- Close AutoCAD

- Open AutoCAD

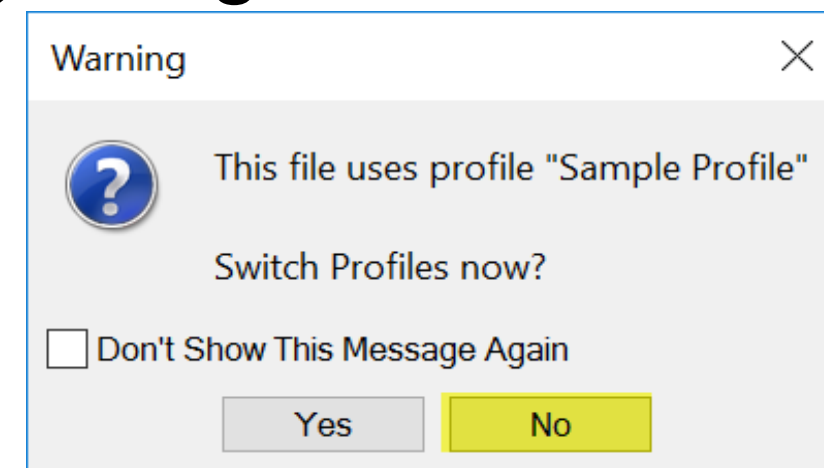
- Change Profiles to the Profile that you should have been using.

- Open the drawing.

- You will get a warning. “This Drawing uses “XYZ” Profile” Switch Profiles now?

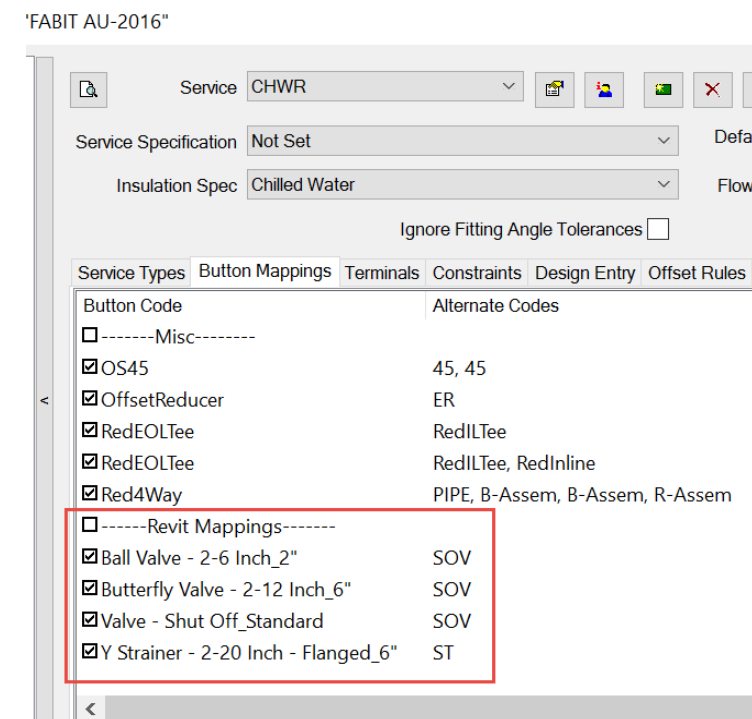
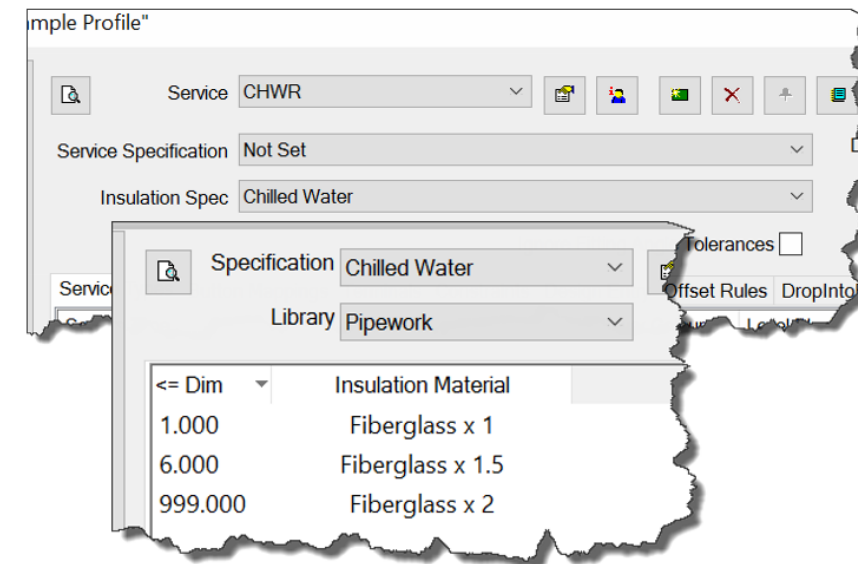
- In this case, click “No”

- NEVER check the box “Don’t Show Me This Again”



Edit the profile for Project requirements for use in Fabrication Product as well as REVIT

- Change out Valves if needed
- Modify Specifications
 - Support Specs
 - Insulation Specs
- Add Button Mappings required for REVIT
“Design to Fabrication”



Q&A



CSUSA Fabrication Team

- William Tucker
- Josh Asche
- Kevin Allen

How did I do?

- Your class feedback is critical. Fill out a **class survey** now.
- Use the AU mobile app or fill out a class survey online.
- Give feedback after each session.
- AU speakers will get feedback in real-time.
- **Your feedback results in better classes and a better AU experience.**



