AUTODESK UNIVERSITY

MSF22010

The Ins and Outs of Fabrication Ancillaries

Scott Hendricks
Applied Software Technology, Inc.

Learning Objectives

- Gain a better understanding of what ancillaries are and how we can use them
- Learn how to build your own Fabrication ancillaries
- Discover all the locations the ancillaries can be applied and how to apply them to your Fabrication items
- Learn how to report ancillaries for procurement

Description

Within the Fabrication software products, ancillaries are materials such as fixings, gaskets, cleats, sealants, and flange materials that are necessary to complete the fabrication and installation of Items. Ancillaries may have labor rates, fabrication costs, and installation costs assigned to make cost summaries accurate. Ancillaries are also necessary for accurate reports for purchasing. In this class, we will explore all facets of Fabrication ancillaries, including building, applying, and reporting. This session features Fabrication ESTmep and Fabrication CADmep.

Your MSF Forum Expert

Scott Hendricks leads Applied Software's technical services delivery for the Autodesk® Fabrication products. He is an experienced instructor and implementation expert for Autodesk Fabrication CADmep™, Fabrication ESTmep™, and Fabrication CAMduct™.

His skills also extend to application development and customization of the Autodesk Fabrication products. He is the primary author of the Applied Software Configuration Pack for the USA market which enhances the use of the Autodesk Fabrication products with Imperial standards.

Scott also creates courseware and video tutorials for the Fabrication products. He previously worked for an MEP contractor and was a union plumber and pipefitter for over 26 years.

What are ancillaries and how we can use them?

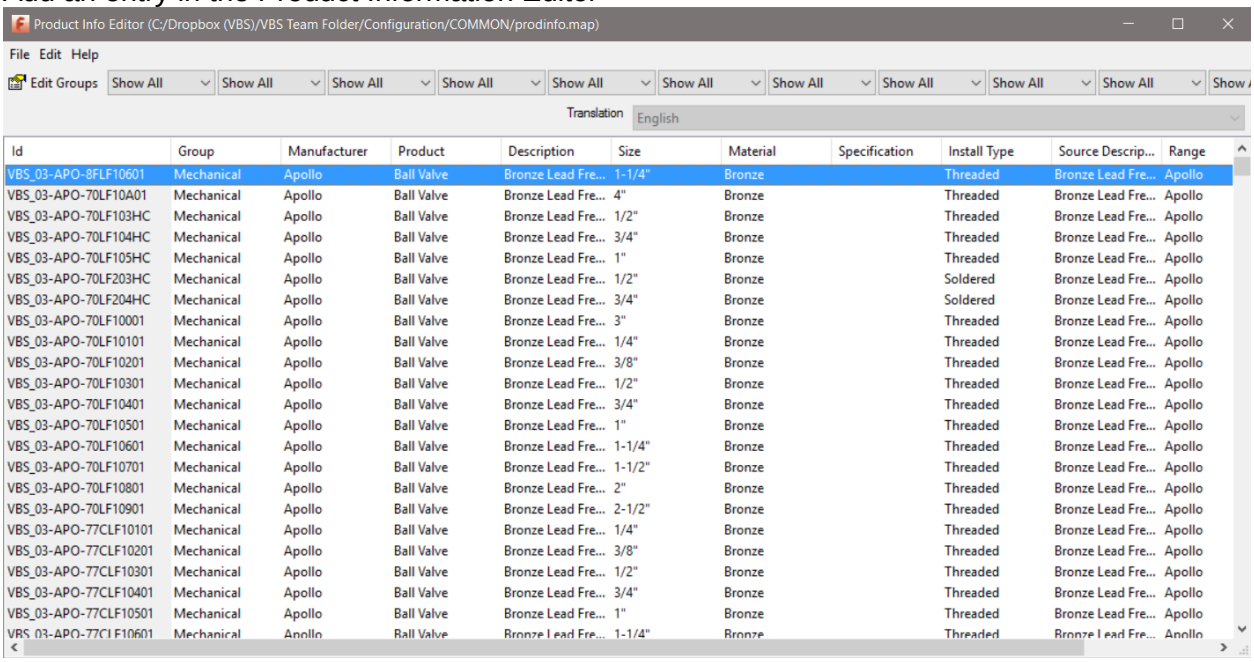
Ancillaries are a way for us to attach to our Fabrication items things that do not necessarily need graphical representation in our models. For instance, we may not be required to show the bolts on a flange or the solder in a joint in our models but we still need to cost them when estimating and order them on our bill of materials. Ancillaries solve this problem.

How to build your own Fabrication ancillaries?

When building ancillaries, I take the same approach as when I am building Fabrication items. You can do it in four easy steps.

Step 1

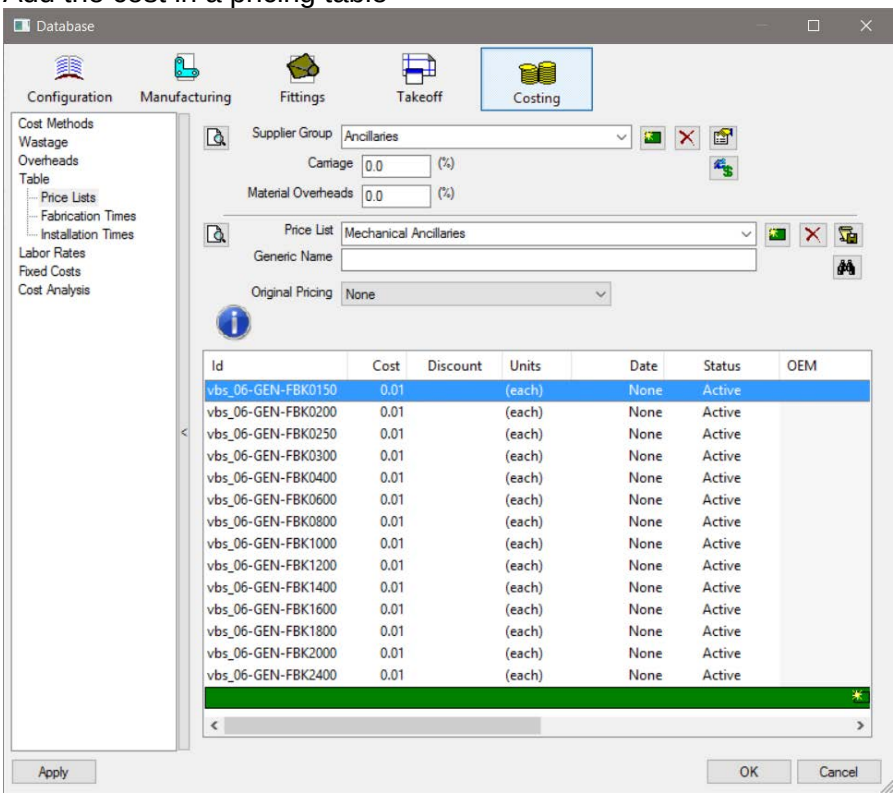
Add an entry in the Product Information Editor



Id	Group	Manufacturer	Product	Description	Size	Material	Specification	Install Type	Source Descrip...	Range
VBS_03-APO-8FLF10601	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1-1/4"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10A01	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	4"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF103HC	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1/2"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF104HC	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	3/4"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF105HC	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF203HC	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1/2"	Bronze		Soldered	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF204HC	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	3/4"	Bronze		Soldered	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10001	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	3"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10101	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1/4"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10201	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	3/8"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10301	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1/2"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10401	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	3/4"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10501	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10601	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1-1/4"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10701	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1-1/2"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10801	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	2"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-70LF10901	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	2-1/2"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-77CLF10101	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1/4"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-77CLF10201	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	3/8"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-77CLF10301	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1/2"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-77CLF10401	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	3/4"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-77CLF10501	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1"	Bronze		Threaded	Bronze Lead Fre...	Apollo
VBS_03-APO-77CLF10601	Mechanical	Apollo	Ball Valve	Bronze Lead Fre...	1-1/4"	Bronze		Threaded	Bronze Lead Fre...	Apollo

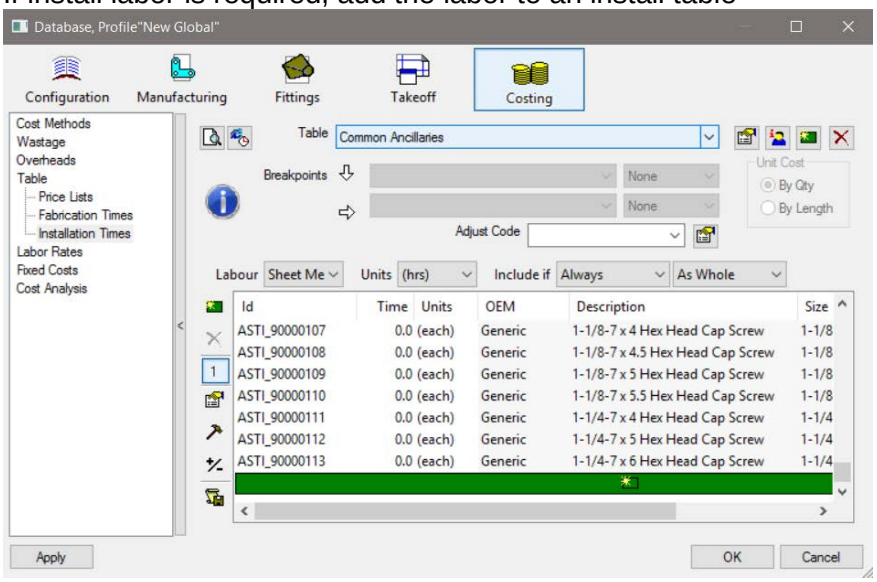
Step 2

Add the cost in a pricing table



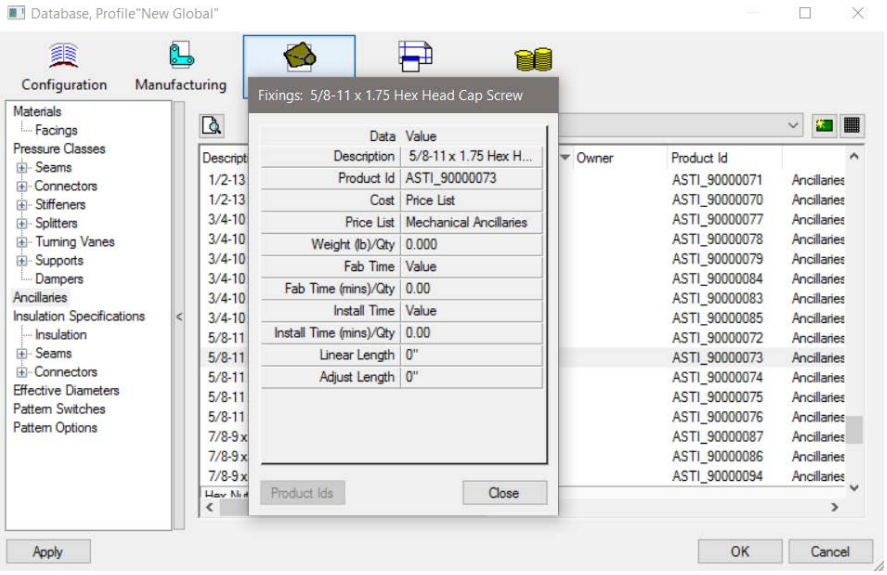
Step 3

If install labor is required, add the labor to an install table



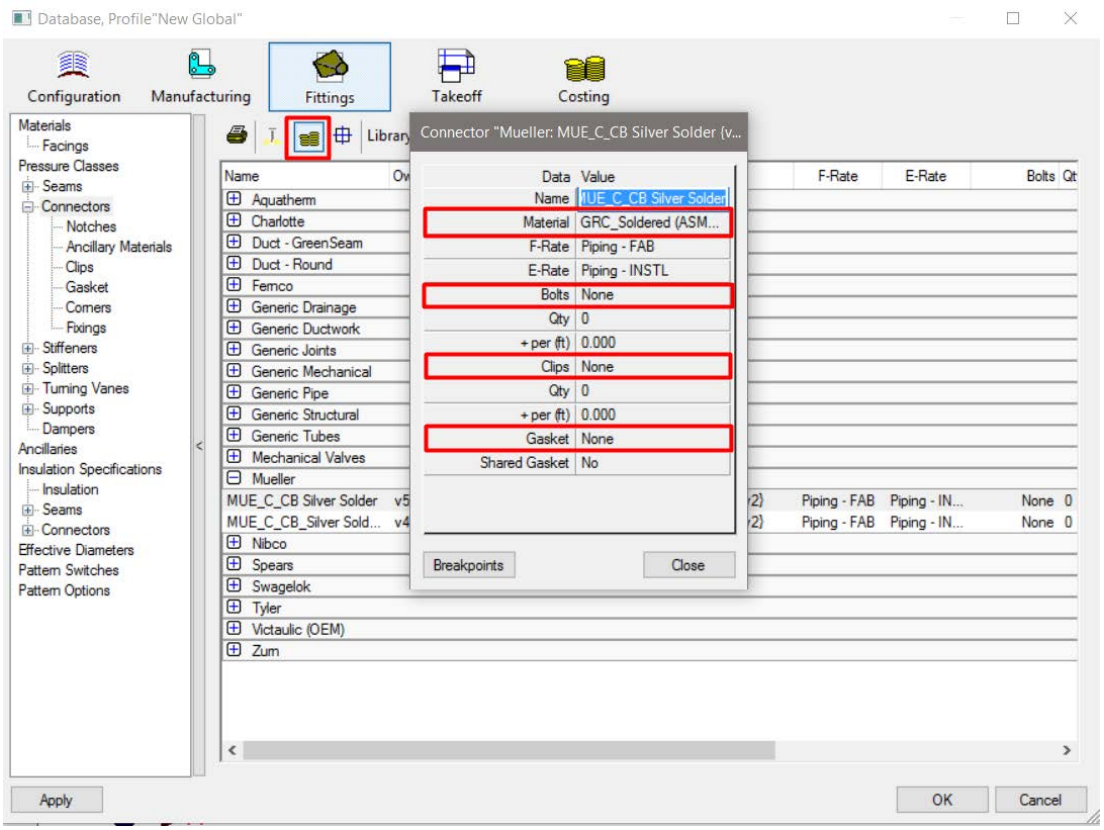
Step 4

Make the ancillary

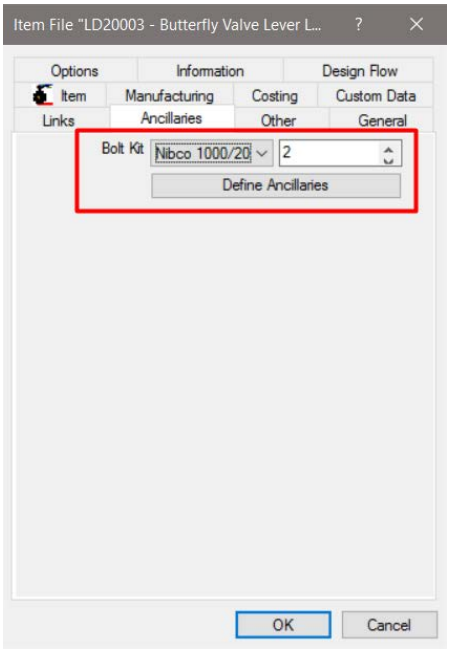


How to apply ancillaries to your Fabrication items?

Ancillaries can be applied to fabrication items a several different ways. Ancillaries can be applied to a ductwork seams, connectors, stiffeners, splitters, vanes, supports or they can be applied directly on the items itself. We can also attach a group of ancillaries. The software calls groups Ancillary Kits.



Ancillaries attached to a connector.



Ancillaries attached to an item.

Reporting ancillaries for procurement

Ancillaries have their own reporting area in the Fabrication software allowing us to report out information about the ancillaries attached to an item instead of information about the item itself. In CADmep you can open the ancillary report builder by typing the command “ANCILLARYREPORTS”. In ESTmep and CAMduct you will find it in the program menu at File>Print Layout>Ancillary Reports. With all three programs you can also export ancillaries to a CSV file.

Once you understand the ins and outs of ancillaries building, using and reporting them is fairly easy task.