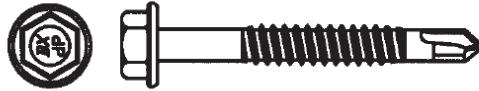


CREATING YOUR OWN PARTS

REVIEW

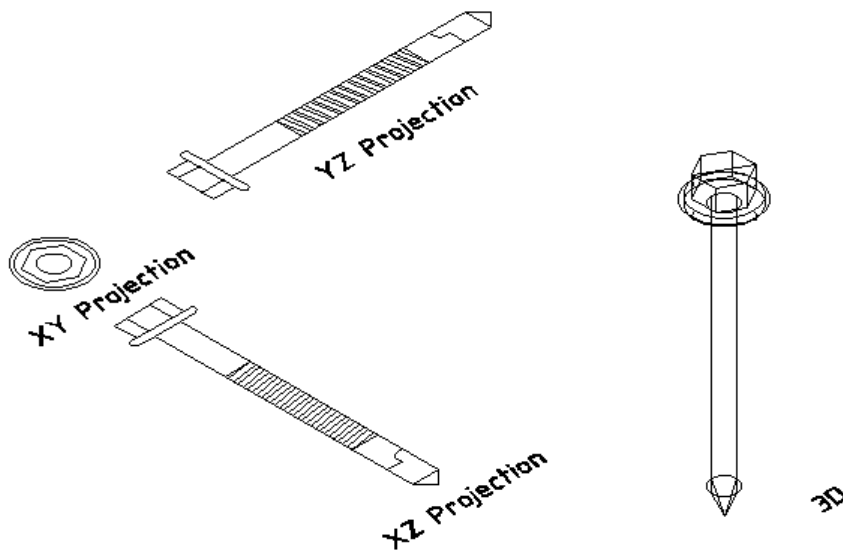
In this section we will look at how a user can create their own parts, in this exercise we will create a Tek Screw. The screw below is a Buildex Stainless Steel Tek Self Drilling Screw.

Hexagon Head no Seal Grade 305 (A2)



Gauge	Dimensions	Pack Quantity	Part Number
14g	14-14 x 70mm	500	6-392-0009-9

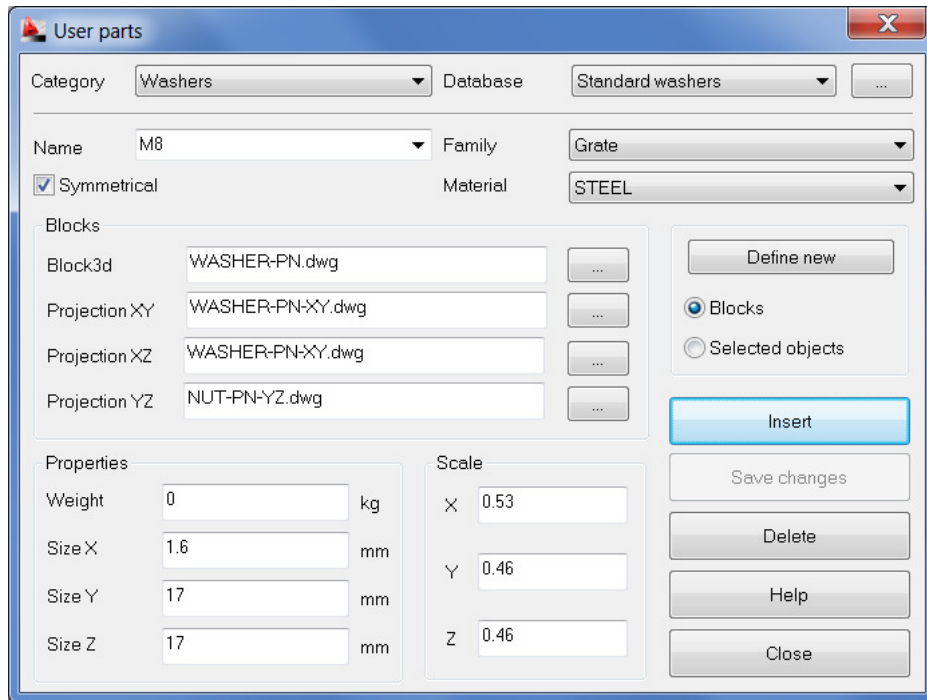
The first step is to draw the screw showing an XY View, XZ View, YZ view, and to create a 3D model of the screw (using standard AutoCAD 3D Modelling commands).




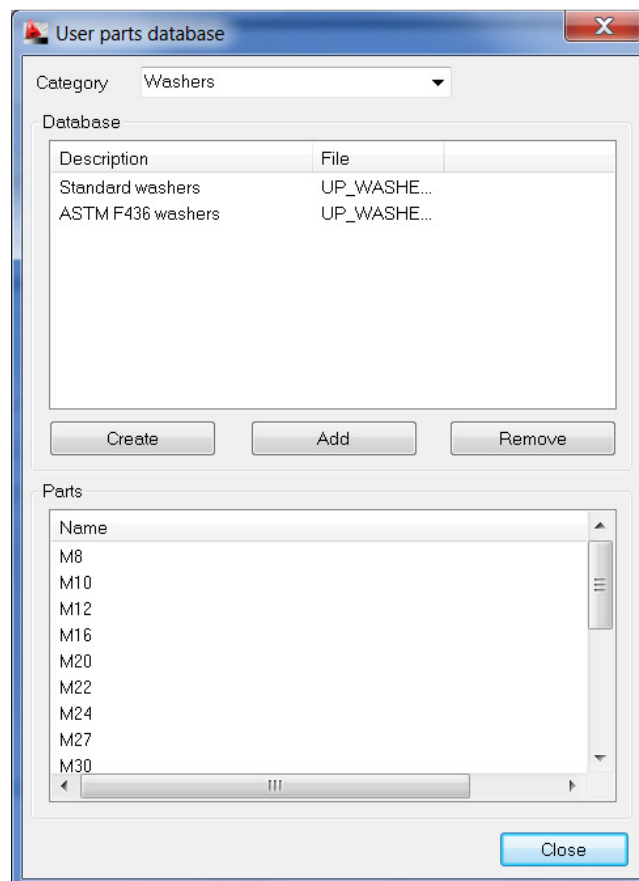
Save the file for later reference.


Next, on the Ribbon go to ASD_Model > Elements >  (User Parts).

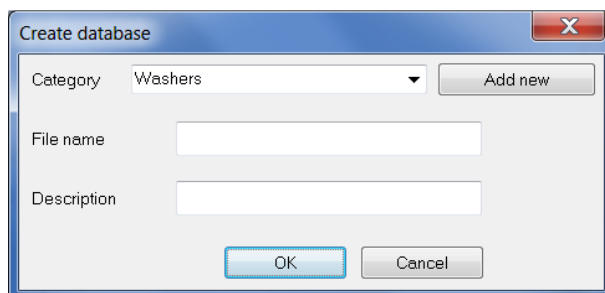
This will call up the User Parts dialog box,.

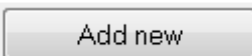


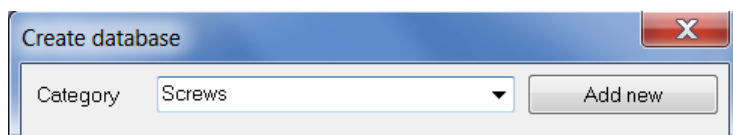
As we are going to create our own part (Tek Screw) select the  button in the top right corner of the dialog box. This will bring up the User Parts Database dialog box.



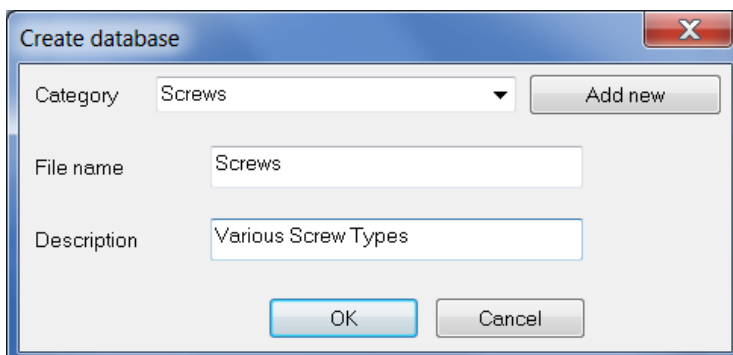
Select the  button. This will bring up the Create Database dialog box.

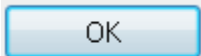


Select the  button, and type in the name of SCREWS for the Category name.

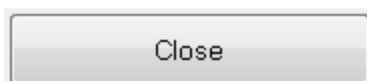
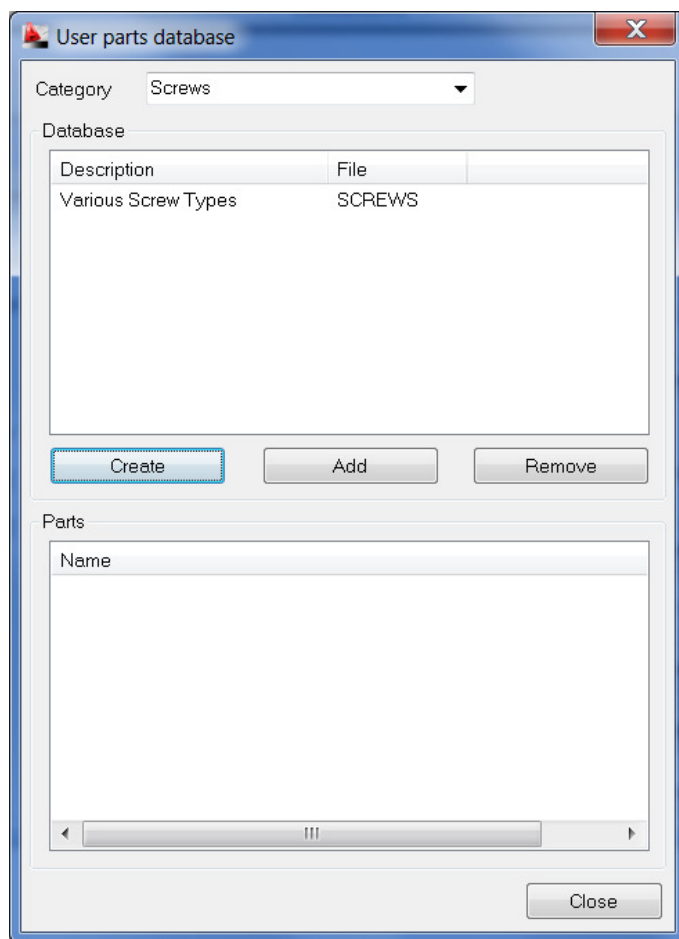


Next, add the File Name of Screws, and the Description of Various Screw Types.



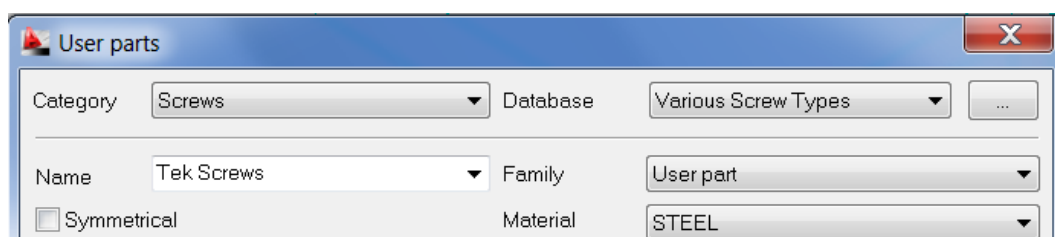
Once completed pick the  button.

You will be returned to the User Parts Database dialog box, where you will see your new Database.

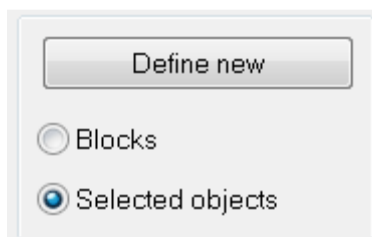



Click the  button to return to the User Parts dialog box.

Type in the Name of Tek Screws and change the Family to User Part



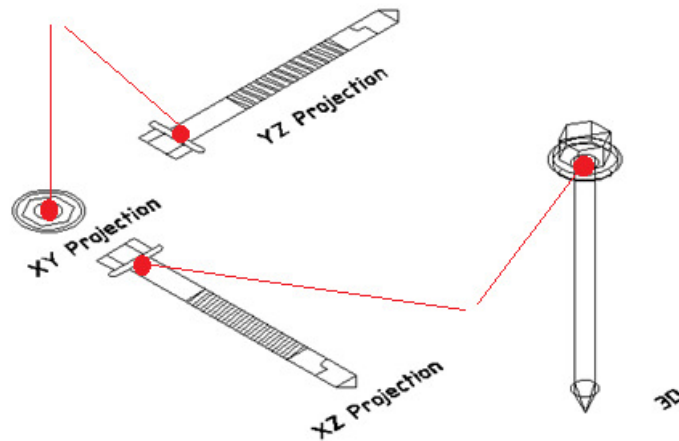
Next, select Selected Objects



Then pick the  button.

Command: __RBCS_userpart Ent_userpart Ent_us:**Buildex Tek 14-14x70** (give the part a name and then follow the prompts as shown below)

NOTE make the Base Points in logical insert points as shown in diagram below:



Select objects to create 3D model of the part1 found

Select objects to create 3D model of the part

Specify base point:

Specify point on positive portion of X-axis:

Select objects to create part XY projection:Specify opposite corner: 4 found

Select objects to create part XY projection:

Specify base point:

Specify point on positive portion of X-axis:

Select objects to create part XZ projection:Specify opposite corner: 50 found

Select objects to create part XZ projection:

Specify base point:

Specify point on positive portion of X-axis:

Select objects to create part YZ projection:Specify opposite corner: 51 found

Select objects to create part YZ projection:1 found, 1 removed, 50 total

Select objects to create part YZ projection:

Specify base point:

Specify point on positive portion of X-axis:

Command:

The relevant drawings will be created and copied to your Users, Login Name, AppData
 \Roaming\Autodesk\Structural\Common Data\2011 (under Windows 7)

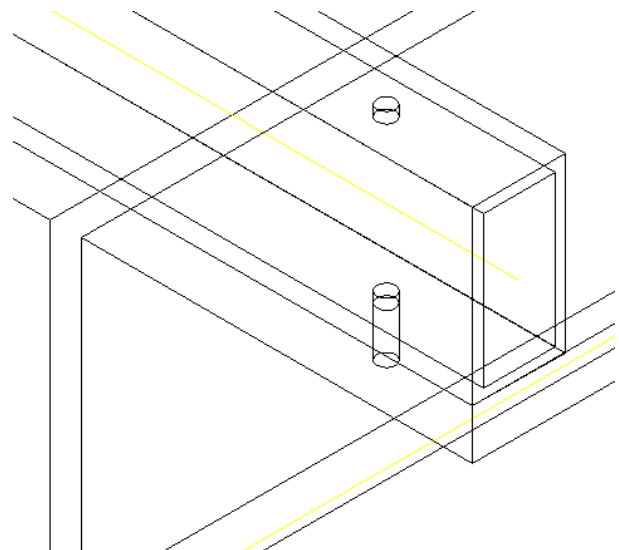
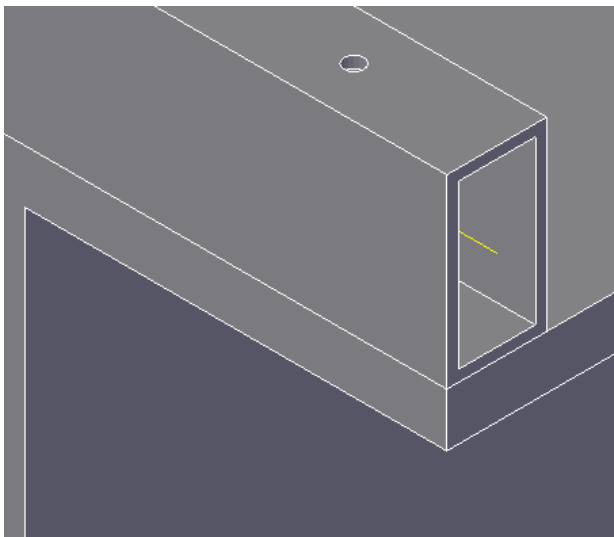
Once completed, the user can add weight, size and scaling factors

Once all filled out select the  button.

Followed by the  button.

Our new Buildex Tek 14-14x70 is now ready for use.

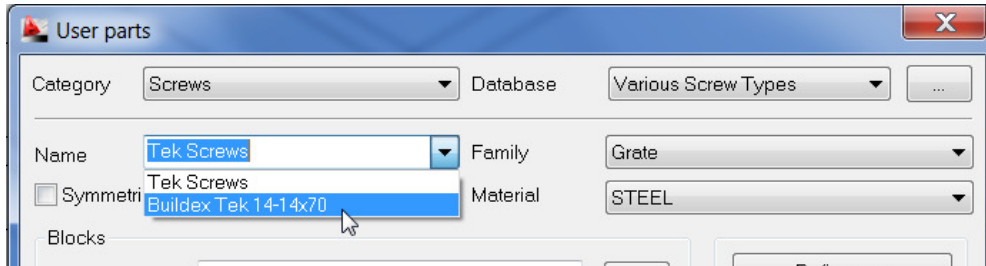
The next step is to try it out, here we have a small RHS and a UC that we are going to fasten together using one of our new Tek Screws.



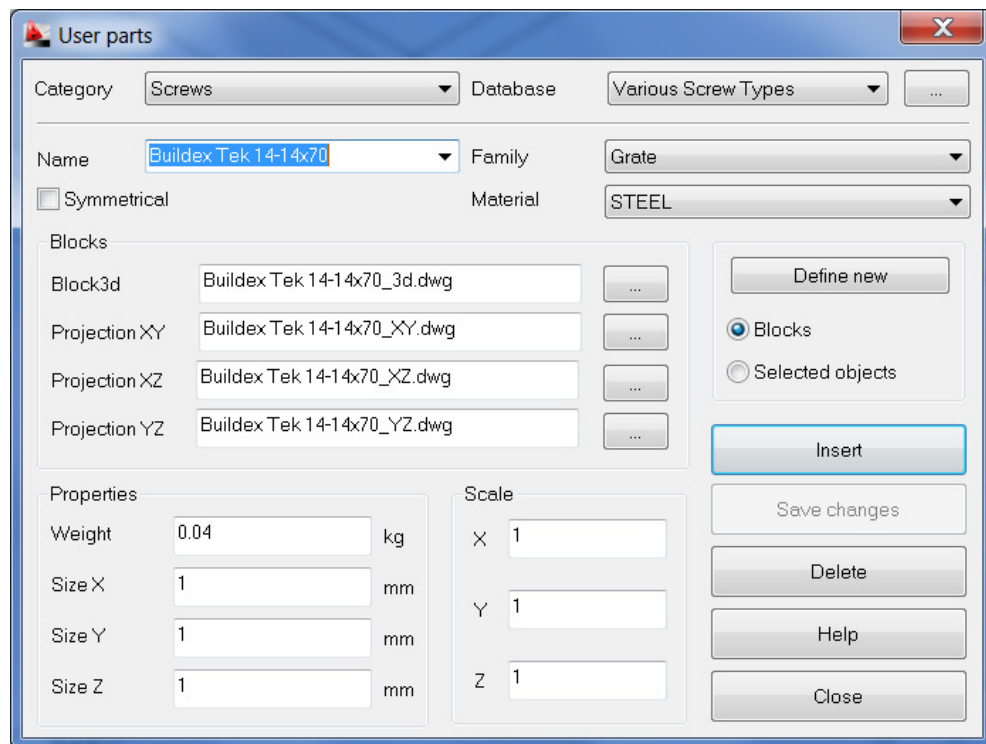
Call up the User Part command on the Ribbon




Select The Screws Category, and then our new Buildex Tek 14-14x70 from the list.

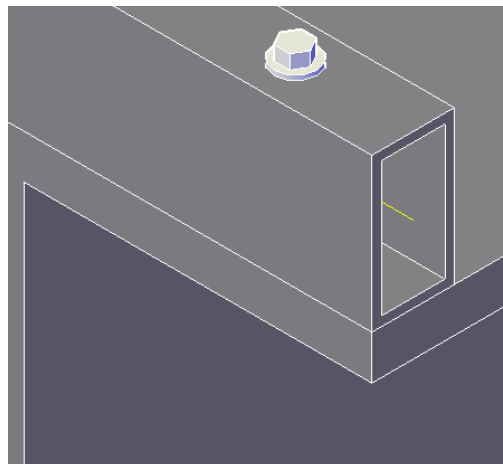
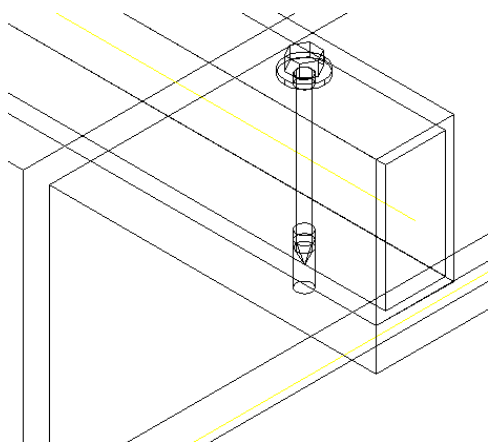


This will access the database and find the relevant file(s).



Select the  button.

Place the new Tek Screw in position.



Select the



to finish.