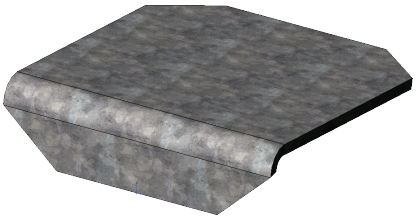
Chapter 7

Boat
Wedge



A. Sketch.

Step 1. Click File Menu > New, click **Part** and OK.

Step 2. Click **Right Plane** in the Feature Manager and click **Sketch** from the Content toolbar, **Fig. 1**.

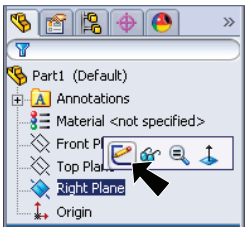


Fig. 1

Step 3. Click **Line** **(L)** on the Sketch toolbar.

Step 4. Starting from the Origin draw two lines in **Fig. 2**. Use the inferencing line, the dotted line that appears when you draw the across the bottom of the sketch to keep the end of the lines aligned horizontally.

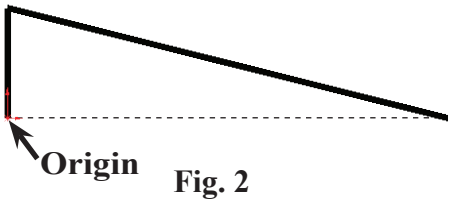


Fig. 2

Step 5. Click **Smart Dimension** **(S)** on the Sketch toolbar.

Step 6. Dimension lines as shown in **Fig. 3**.

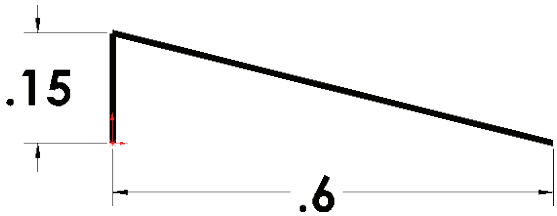


Fig. 3

B. Save as "WEDGE".

Step 1. Click File Menu > Save As.

Step 2. Key-in **WEDGE** for the filename and press ENTER.

C. Sheet Metal.

Step 1. Click Insert Menu > Sheet Metal > Base Flange.

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Step 2. In the Property Manager,
under **Direction 1**:
Select **Mid Plane, Fig. 4**
Set Depth to **.5**
under **Sheet Metal Gauges**:
Check **Use gauge table**
Select **Sample Table - Aluminum**
under **Sheet Metal Parameters**:
Select **Gauge 26**

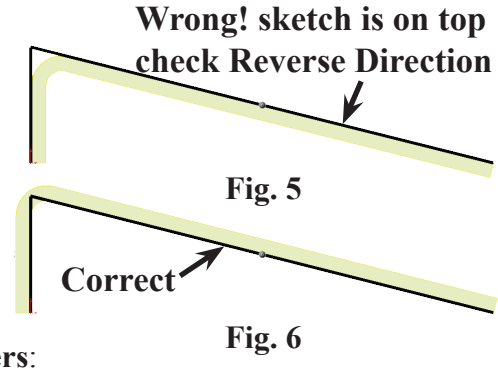


Fig. 5

Fig. 6

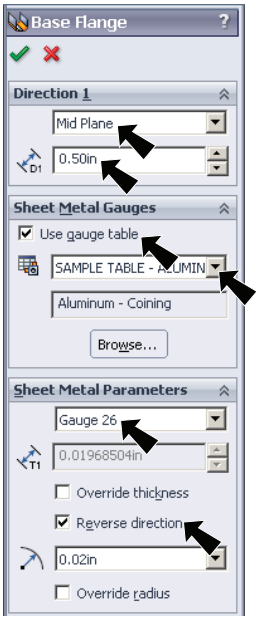


Fig. 4

Click **Right** on the View toolbar. (**Ctrl-4**)
IF the sheet metal is on the bottom, Fig. 5, check Reverse direction in the Property Manager, **Fig. 4**
IF the sheet metal, Fig. 6 is on the top of the sketch - click OK
Sheet metal (green part) has to be on top of sketch (black line)

D. Chamfers.

Step 1. Click **Isometric** on the View toolbar. (**Ctrl-7**)

Step 2. Click **Chamfer** in the **Fillet flyout** on the Features toolbar.

Step 3. In the Chamfer Property Manager set:
Depth to **.1**
Angle **to 45 degrees, Fig. 7**.

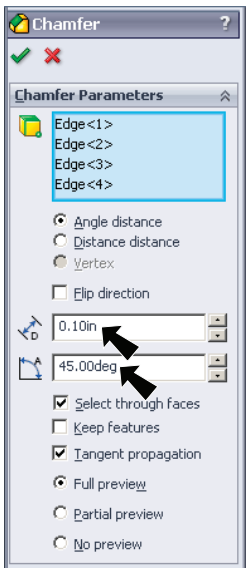


Fig. 7

Step 4. Drag a selection around each corner to select the corner edge, **Fig. 8**. Click OK.

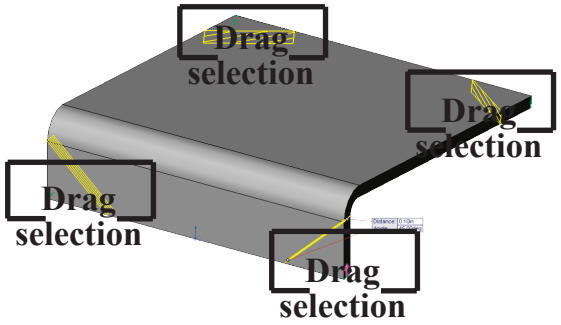


Fig. 8

E. Material Galvanized Steel.

Step 1. **Right click Material** in the Feature Manager and click **Edit Material**.

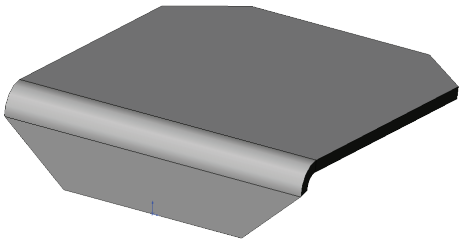
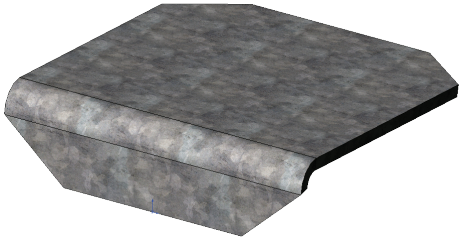


Fig. 9

Step 2. Expand **Steel** in the material tree and click **Galvanized Steel**. Click **Apply** and **Close**.

Step 3. Save. Use **Ctrl-S**.