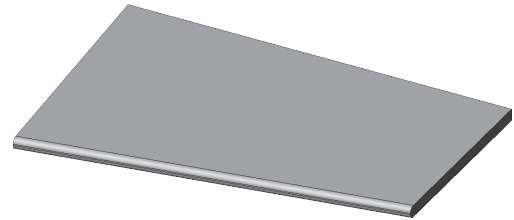




Airplane H Stab



A. Sketch.

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

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

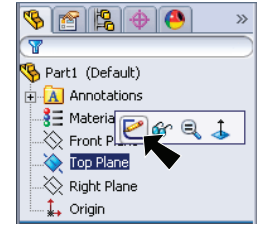



Fig. 1

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

Step 4. Starting at the Origin  draw lines in **Fig. 2**. Use the inferencing line, the dotted line that appears when you draw the lines to **keep top line horizontal and right side line vertical**. Do not add any extra lines.

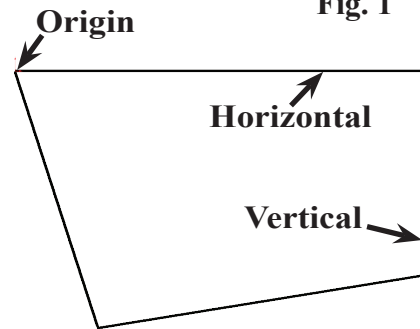


Fig. 2

Step 5. Click **Smart Dimension**  on the Sketch toolbar.

Step 6. Add dimensions as shown in **Fig. 3**. Dimension the angle between top and left side **86 degrees** as shown in **Fig. 3**. To **Smart dimension angle**, **click both lines** then move the cursor between lines and click. Key-in **86** for the dimension and press ENTER.

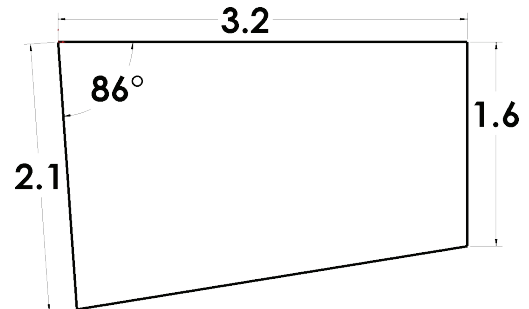
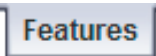




Fig. 3

B. Extrude.

Step 1. Click **Features**  on the Command Manager toolbar.

Step 2. Click **Extruded Boss/Base**  on the Features toolbar.

Step 3. In the Property Manager set:
under **Direction 1**
End Condition to **Mid Plane**
Depth  to **.1**
click **OK** ,
Fig. 4 and **Fig. 5**.

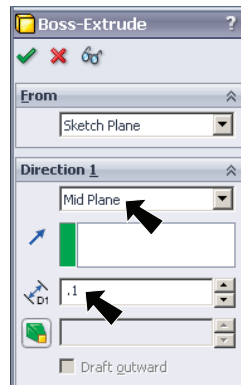


Fig. 4

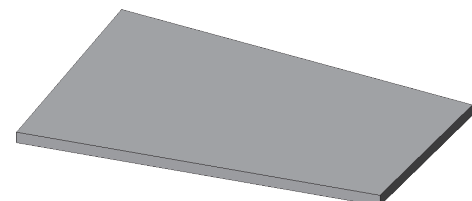


Fig. 5

C. Save as "H STAB".

Step 1. Click File Menu > Save As.

Step 2. Key-in **H STAB** for filename and press ENTER.

D. Fillet Leading Edge.

Step 1. Click **Fillet**  on the Features toolbar.

Step 2. In the Fillet Property Manager:

set **Radius**  to **.045**, Fig. 6

click the **two edges** of the leading edge (front) as shown in Fig. 7

click OK , Fig. 8.

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

E. Material PS HI (Polystyrene).

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

Step 2. **Expand Plastics** in the material tree and select **PS HI**. Click **Apply** and **Close**.

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

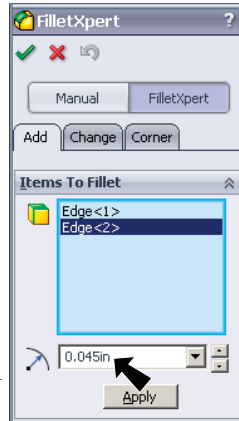


Fig. 6

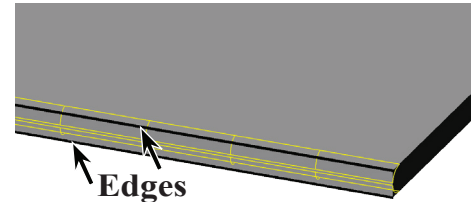


Fig. 7

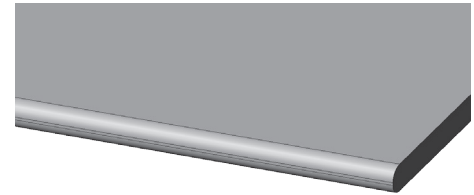


Fig. 8

