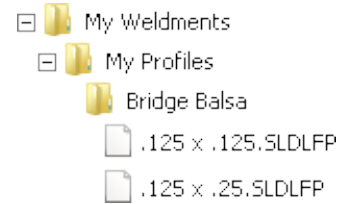




Chapter 1

Bridge Profiles



A. Sketch .125 by .125 Rectangle.

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

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

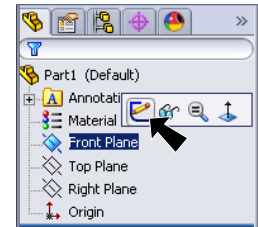



Fig. 1

Step 3. Click **Rectangle**  (S) on the Sketch toolbar.


Step 4. Draw a rectangle starting at the Origin , **Fig. 2**. The Origin should be in the bottom right corner of rectangle. This will make adding structural members a little easier.



Fig. 2


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

Step 6. Set dimensions as shown in **Fig. 3**. .125 x .125

Step 7. Click **Zoom to Fit**  (F) on the View toolbar.

B. Points.

Step 1. Click **Point**  on the Sketch toolbar.

Step 2. Draw Point at midpoint of each line of rectangle, **Fig. 3**. To find midpoint, move cursor across line and as cursor approaches midpoint highlights  you click.

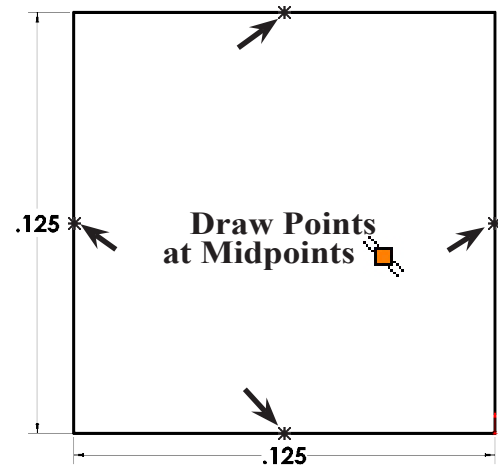


Fig. 3

Step 3. Click **Exit Sketch**  on the Sketch toolbar.

C. Save as "PROFILE".

Step 1. Click File Menu > Save As.

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

D. Properties .125 by .125.

Step 1. Right click Annotation  in the Feature Manager and click **Show Feature Dimensions** from menu, **Fig. 4**.

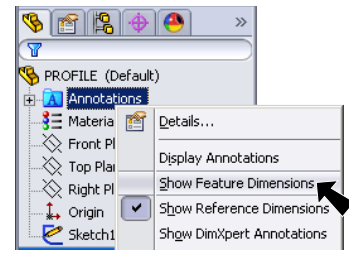


Fig. 4

Step 2. Click File Menu > Properties.

Step 3. In the Summary Information dialog box on the Custom tab set:
under Property Name, **Fig. 5**

key-in **StockSize**
under Type
select **Text**

under Value/Text
Expression
click in box to
select the field

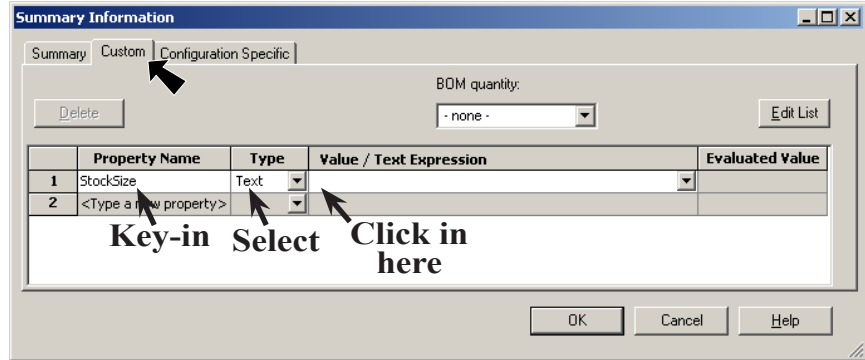


Fig. 5

click **.125 height dimension in sketch, Fig. 6**. You might have to move Summary Information dialog out of the way.

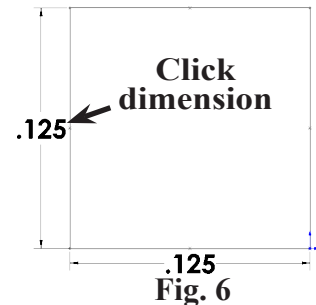


Fig. 6

key-in space (spacebar) X space (spacebar), **Fig. 7**

click **.125 width dimension in sketch, Fig. 8**

under Property Name (below **StockSize**), **Fig. 9**
key-in

Description
under Type
select **Text**

under Value/Text Expression
key-in **.125in x .125in**

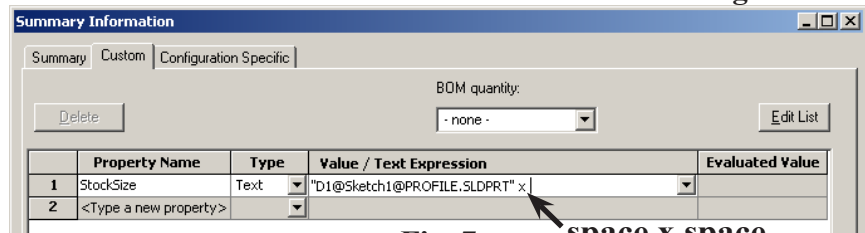


Fig. 7

space x space

press Tab key and **Evaluated Value** updates to:

.125 x .125
.125in x .125in

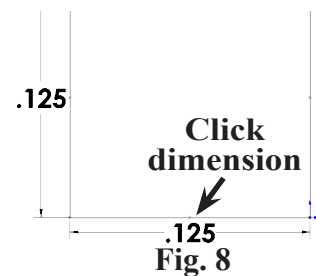
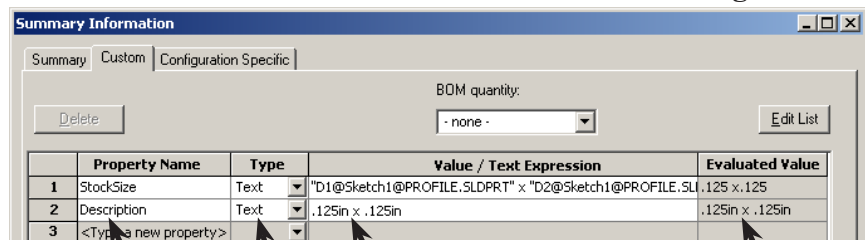


Fig. 8

click **OK**.

Step 4. Save. Use **Ctrl-S**.



Key-in
Select
Key-in

Fig. 9

E. Save as ".125 X .125" Library Feature Part in Sub-folders.

Step 1. Click **Sketch1** in the Feature Manager to select the sketch, **Fig. 10**.
The Sketch must be selected when you save as Lib Feat.

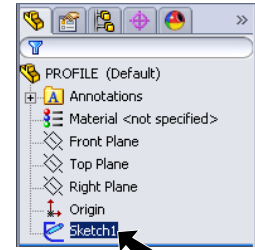


Fig. 10

Step 2. Click File Menu > Save As.

Step 3. In the Save As dialog box:

key-in **.125 x .125** for file name, **Fig. 11**
set **Save as Type** to **Lib Feat Part**

right click the Name box and click **New > Folder**

key-in **My Weldments** for folder name, **Fig. 12**

double click **My Weldments** folder, **Fig. 13**

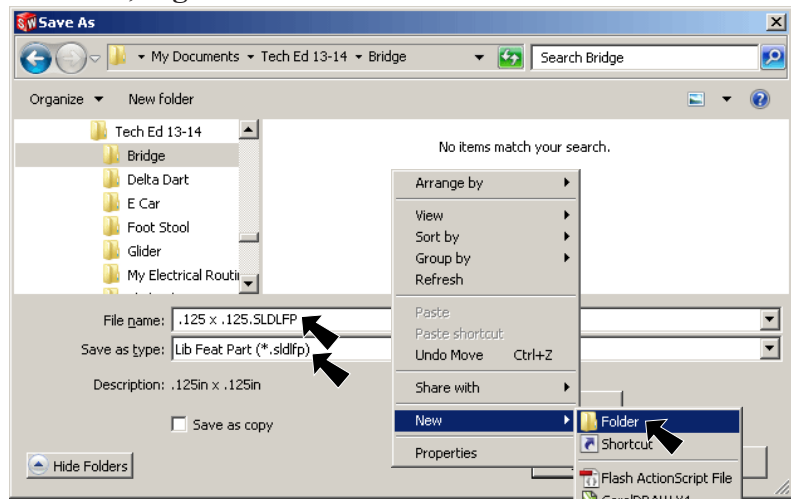


Fig. 11

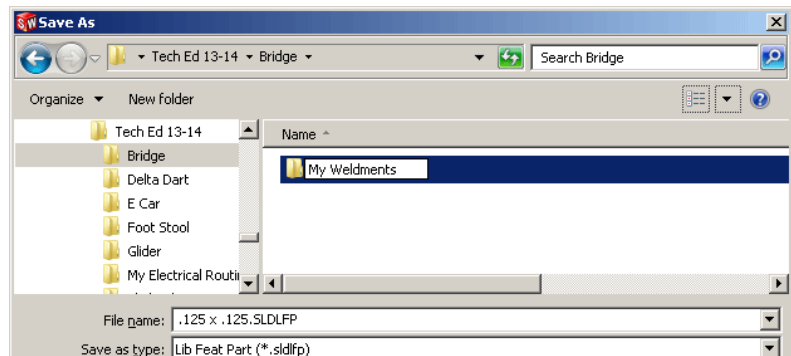


Fig. 12

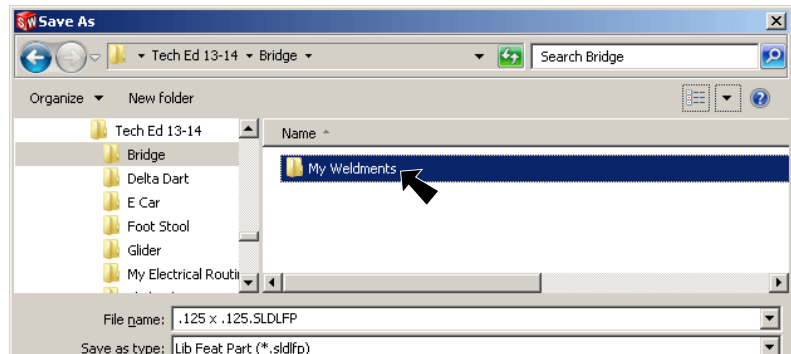


Fig. 13

Step 4. **Right click** the Name box and click New > Folder

key-in **My Profiles** for folder name, **Fig. 14**

double click My Profiles folder

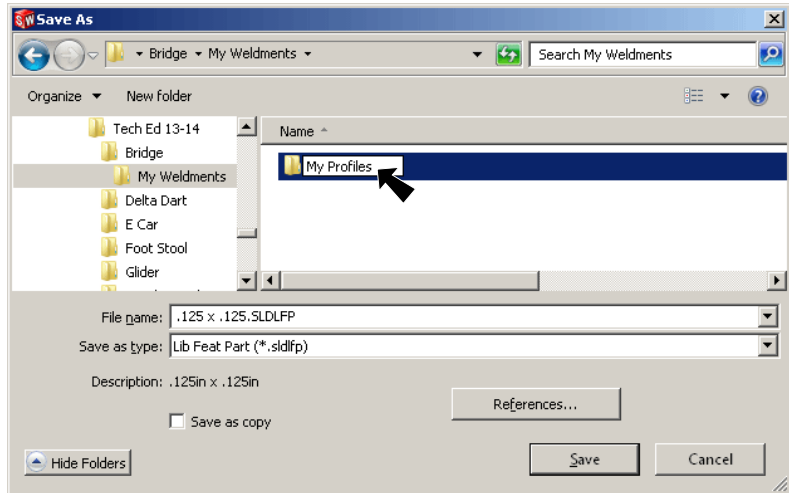


Fig. 14

Step 5. **Right click** the Name box and click New > Folder

key-in **Bridge Balsa** for folder name, **Fig. 15**

double click Bridge Balsa folder

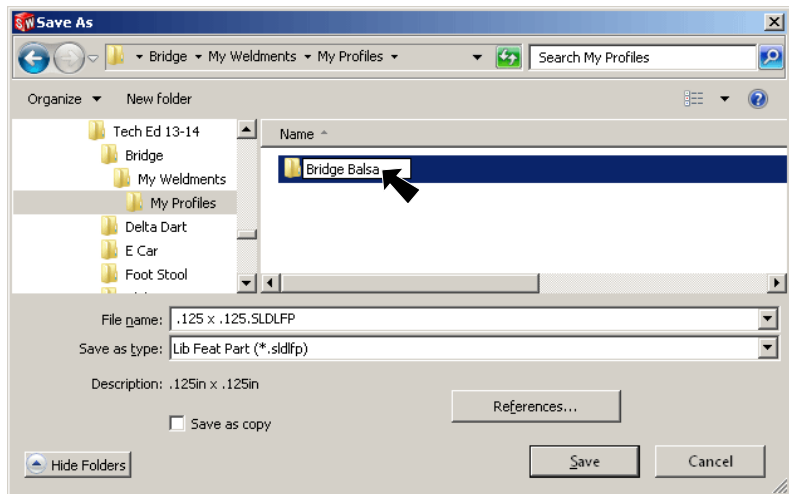


Fig. 15

Step 6. Confirm folders: We just created 3 subfolders, **Fig. 16**

My Weldments
My Profiles
Bridge Balsa

click Save, Fig. 16.

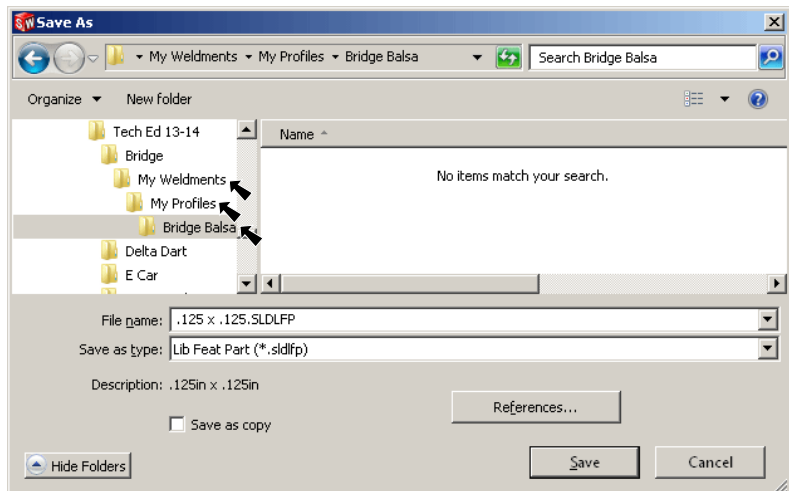



Fig. 16

F. .125 by .25.

Step 1. Change **width dimension to .25**,
Fig. 17. .125 x .25

Step 2. Click **Rebuild**  in the Standard toolbar. (Ctrl-B)

Step 3. Click File Menu > Properties.

Step 4. In the Summary Information dialog box on the Custom tab set:

change **Description Value/Text Expression width** from .125in to **.25in**, **Fig. 18**

press Tab key and **Evaluated Value** updates to:

.125 x .25

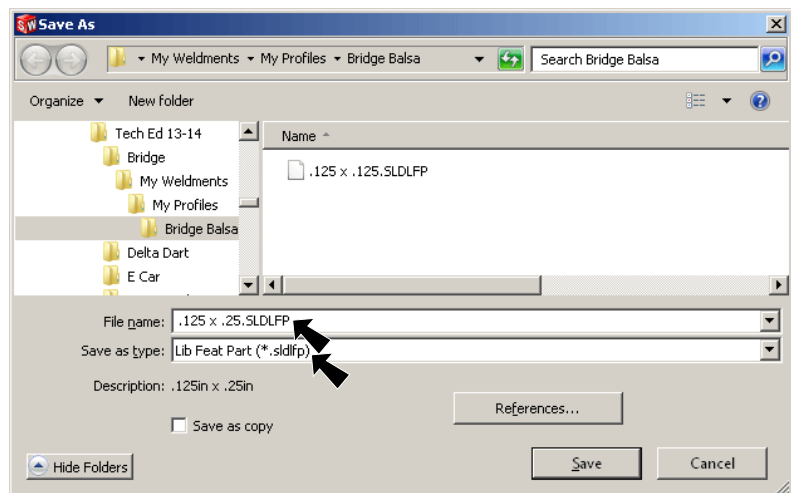
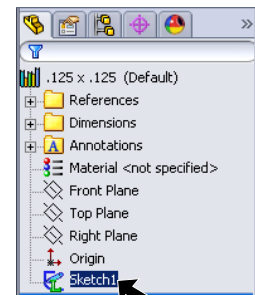
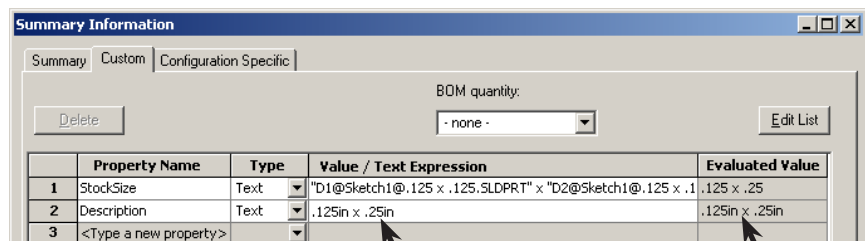
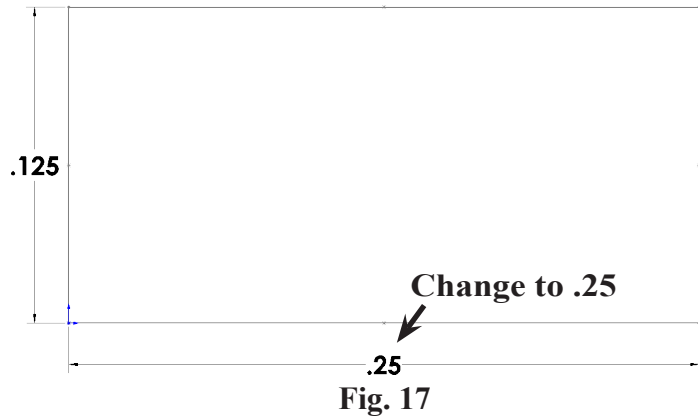
.125in x .25in

click OK.

Step 5. **Click Sketch1** in the Feature Manager to select the sketch,
Fig. 19. The Sketch must be selected when you save as Lib Feat.

Step 6. Click File Menu > Save As.

Step 7. In the Save As dialog box:
key-in **.125 x .25** for file name
set **Save as Type** to **Lib Feat Part**, **Fig. 20**
click Save.



G. Custom Profile File Location.

Step 1. Click Tools Menu > Options.

Step 2. In the System Options dialog box,
select **File Location**
under **Show folders for:**
select **Weldment Profiles**.

If you **have** permissions/rights to your SolidWorks install folder continue here:
Note the path to Weldment Profiles.
Click **Cancel** button.
Copy **My Profiles** subfolder you created earlier into the Weldment Profiles folder in SW install directory, **Fig. 22**.
C:\Program Files\SolidWorks Corp\SolidWorks\lang\english\weldment profiles

If you **DO NOT** have permissions/rights to your SolidWorks install folder continue here:
Click **Add** button, **Fig. 21**. **Find and select your My Weldments** folder and click **OK**, **Fig. 23**. Click **OK**, **Fig. 24**.

