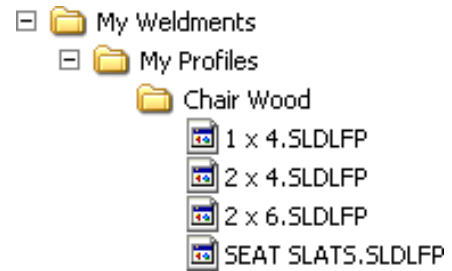




Chair Profiles



A. Sketch 2 by 6 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**.

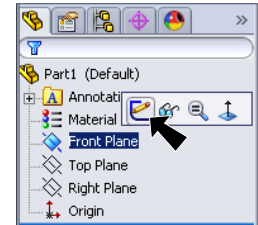



Fig. 1

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. 2**. 1.5 x 5.5

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.

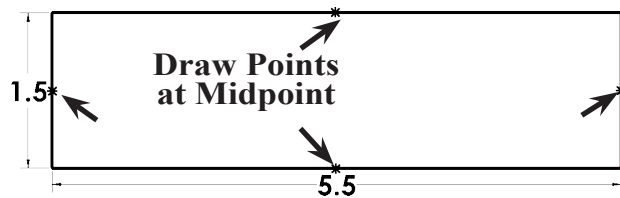


Fig. 3

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 2 by 6.

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

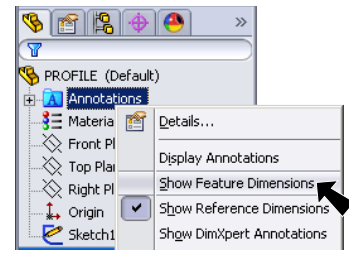


Fig. 4

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

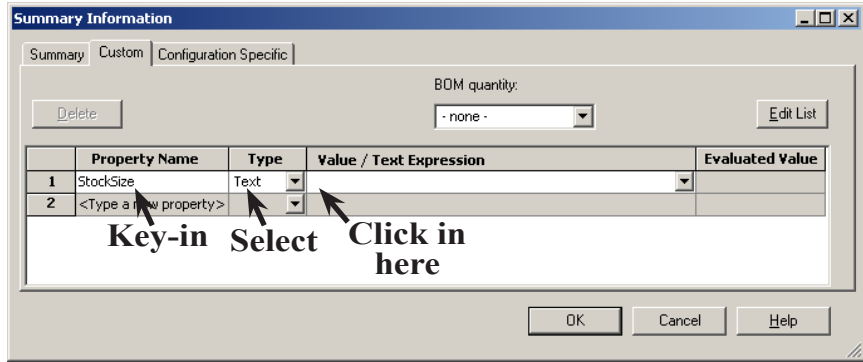


Fig. 5

click 1.5 dimension
in sketch, Fig. 6. You might have to
move Summary Information dialog
out of the way.

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

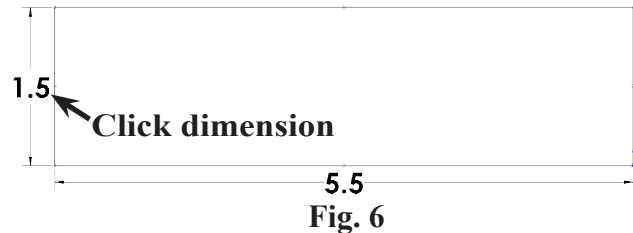


Fig. 6

click 5.5 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 2" x 6"

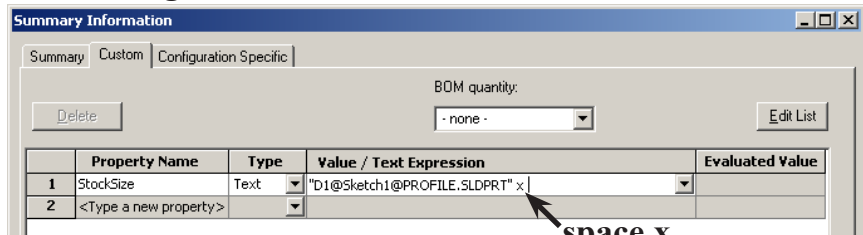


Fig. 7

space x
space

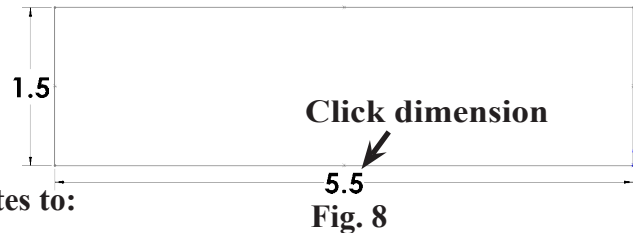


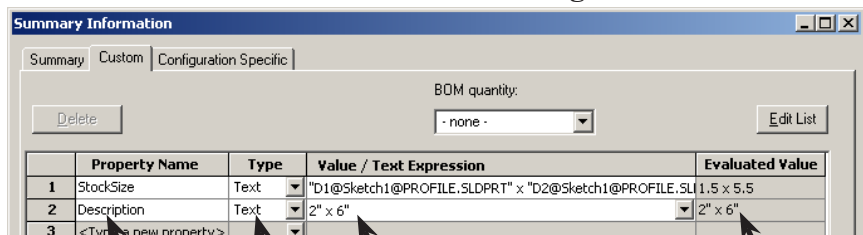
Fig. 8

press Tab key and Evaluated Value updates to:

1.5 x 5.5
2" x 6"

click OK.

Step 4. Save. Use Ctrl-S.



Key-in
Select
Key-in

Fig. 9

E. Save as "2 X 6" 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.

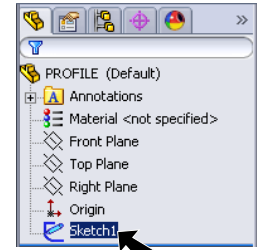


Fig. 10

Step 2. Click File Menu > Save As.

Step 3. In the Save As dialog box:
key-in **2 x 6** for file name, **Fig. 11**
set **Save as Type** to **Lib Feat Part**

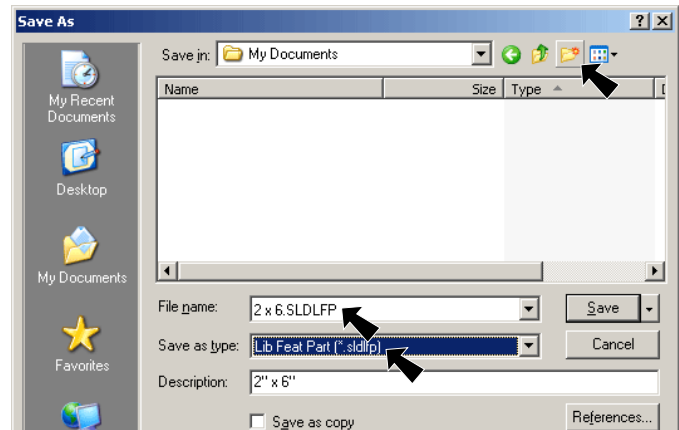


Fig. 11

click **Create New Folder**

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

double click My Weldments

click **Create New Folder**

key-in **My Profiles** for folder
name, **Fig. 13**

double click My Profiles

click **Create New Folder**

key-in **Chair Wood** for folder
name, **Fig. 14**

double click Chair Wood

click Save, Fig. 15.

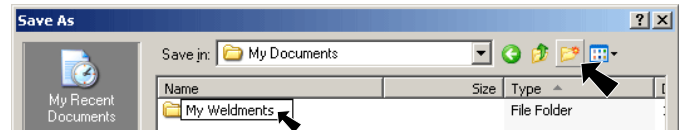


Fig. 12

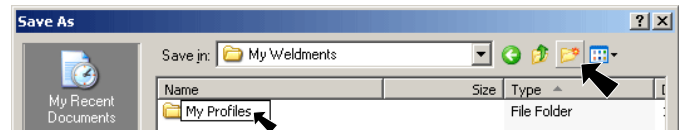


Fig. 13



Fig. 14

Step 4. Check folders: We just created 3 sub-folders,

My Weldments

My Profiles

Chair Wood

and saved 2 x 6.SLDLFP into Chair
Wood folder, **Fig. 16!**

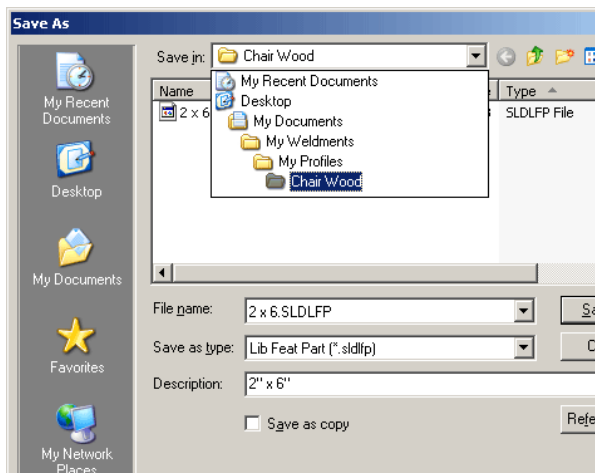


Fig. 16

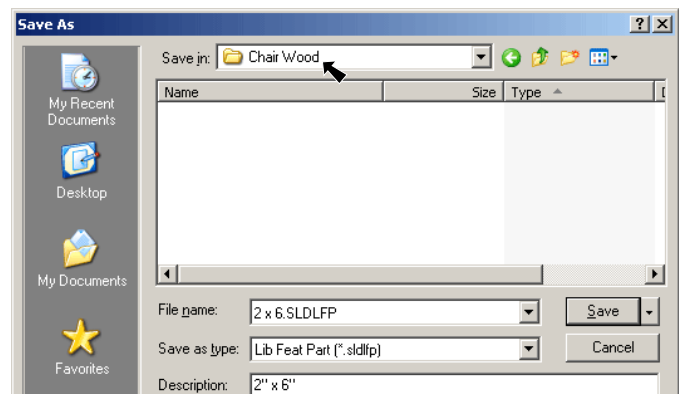
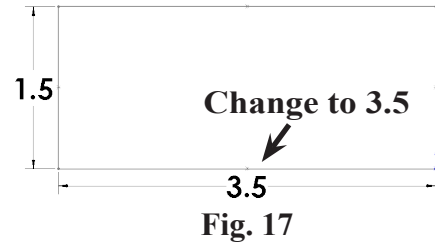



Fig. 15

F. 2 by 4.

Step 1. Change **width dimension to 3.5**, Fig. 17. 1.5 x 3.5



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

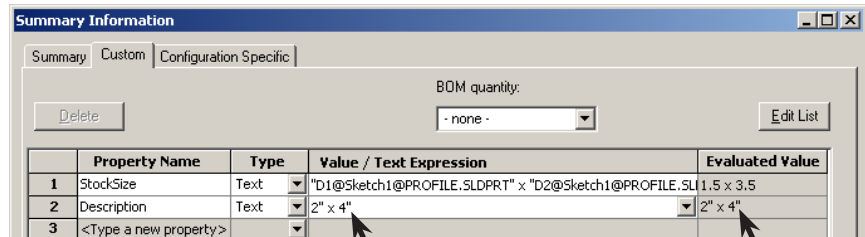
Step 3. Click File Menu > Properties.

Step 4. In the Summary Information dialog box on the Custom tab set:
change **Description Value/Text Expression** from 2" x 6" to 2" x 4" Fig. 18
press Tab key and **Evaluated Value** updates to:

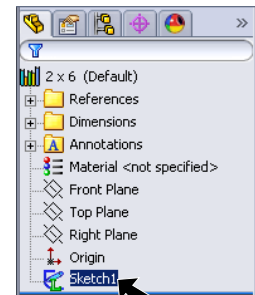
1.5 x 3.5

2" x 4"

click OK.

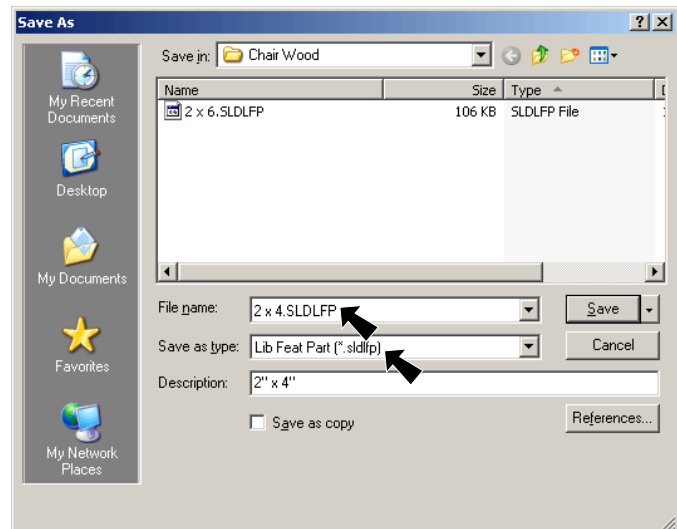


Step 5. Click **Sketch1** in the Feature Manager to select the sketch, Fig. 19. The Sketch must be selected when you save as Lib Feat.



Step 6. Click File Menu > Save As.

Step 7. In the Save As dialog box:
key-in **2 x 4** for file name
set **Save as Type** to **Lib Feat Part**, Fig. 20
click Save.



G. 1 by 4.

Step 1. Change **height dimension to .75**, Fig. 21 .75 x 3.5

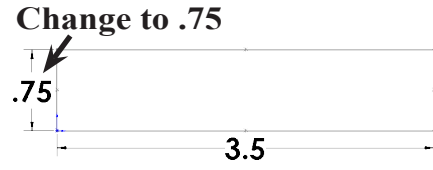



Fig. 21

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

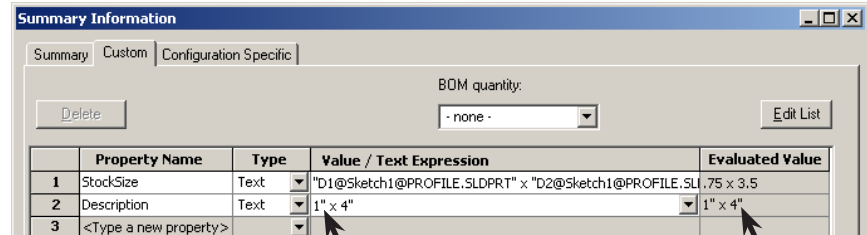
Step 3. Click File Menu > Properties.

Step 4. In the Summary Information dialog box on the Custom tab set:
change **Description Value/Text Expression to 1" x 4"**, Fig. 22
press Tab key and **Evaluated Value updates to:**

.75 x 3.5

1" x 4"

click OK.



Change to 1

Fig. 22

Step 5. Click **Sketch1** in the Feature Manager to select the sketch, Fig. 23. The Sketch must be selected when you save as Lib Feat.

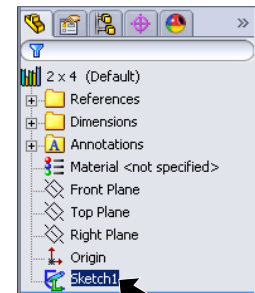


Fig. 23

Step 6. Click File Menu > Save As.

Step 7. In the Save As dialog box:
key-in **1 x 4** for file name
set **Save as Type to Lib Feat Part**, Fig. 24
click Save.

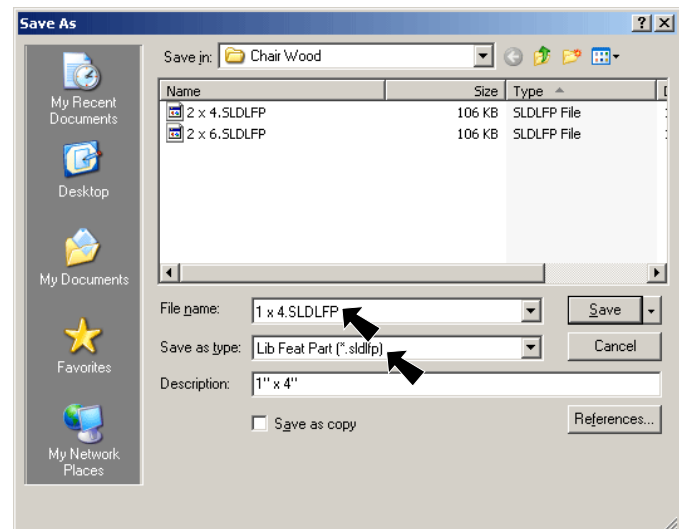


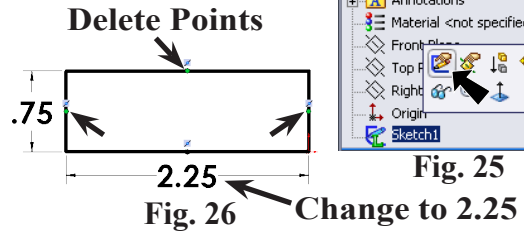
Fig. 24

H. Seat Slats.

Step 1. Click **Sketch1** in the Feature Manager and click **Edit Sketch**  on the Content menu, **Fig. 25**.



Step 2. Change **width dimension to 2.25**, **Fig. 26**.

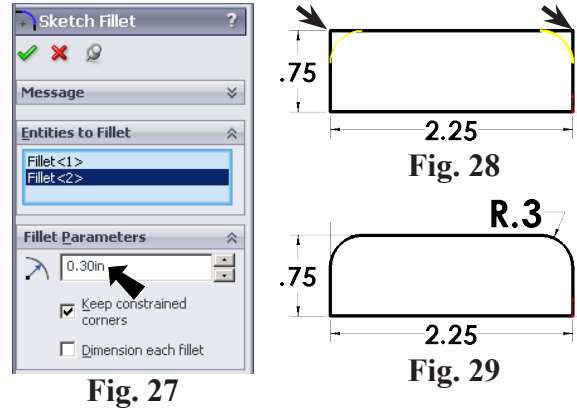
Step 3. **Delete 3 Points** at midpoint of lines, **Fig. 26**. **Do not** delete Point on bottom line To delete Points, Ctrl click each Point and press Delete key.




Step 4. Click **Sketch Fillet**  (S) on the Sketch toolbar.

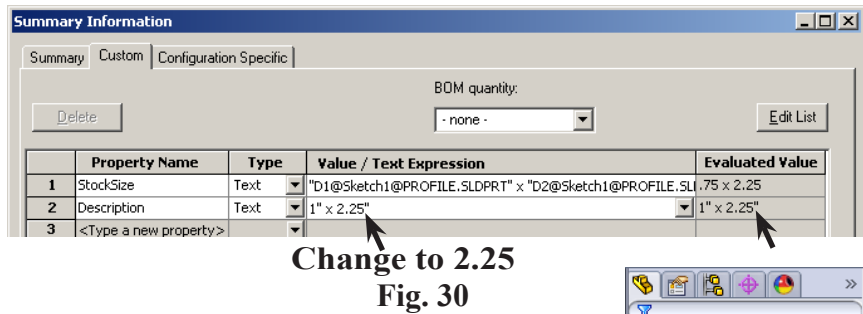
Step 5. In the Property Manager set:

Radius  to **.3**, **Fig. 27**
 click the **top two corners**, **Fig. 28**
 click OK **twice**  and **Fig. 29**.

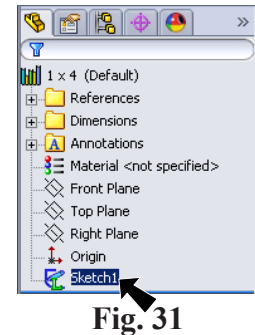


Step 6. Click **Exit Sketch**  on the Sketch toolbar.

Step 7. Click File Menu > Properties.



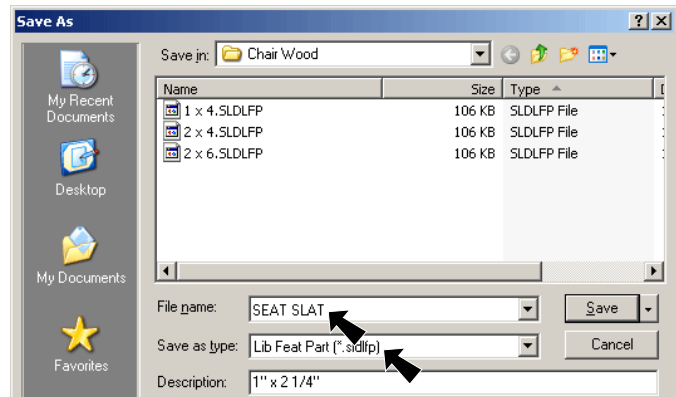
Step 8. In the Summary Information dialog box on the Custom tab set:
 change **Description Value/Text Expression** to **1" x 2.25"**, **Fig. 30**
 press Tab key and **Evaluated Value** updates to:
.75 x 2.25
1" x 2.25"
 click OK.



Step 9. **Click Sketch1** in the Feature Manager to select sketch, **Fig. 31**.

Step 10. Click File Menu > Save As.

Step 11. In the Save As dialog box:
 key-in **SEAT SLAT** for file name
 set **Save as Type** to **Lib Feat Part**,
Fig. 32
 click Save.



I. Custom Profile Files Location.

Step 1. Click Tools Menu > Options.

Step 2. In the System Options dialog box, select **File Location** on left, **Fig. 33** 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. 34**.

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. 33**. **Find and select** your **My Weldments** folder, **Fig. 35** and click OK. Click No to search paths, **Fig. 36**. Click OK.

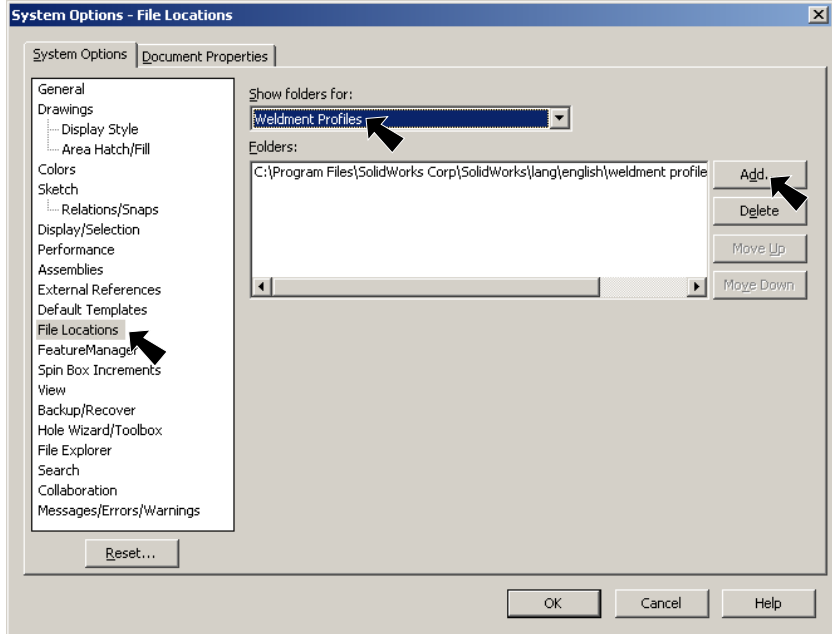


Fig. 33



Fig. 35

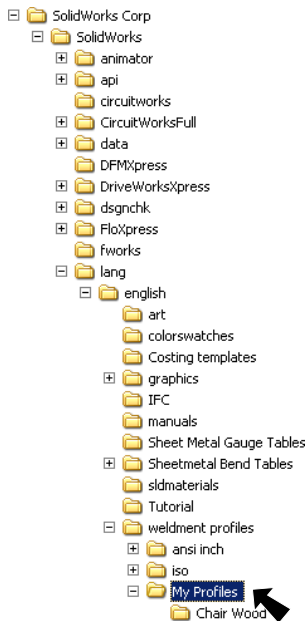


Fig. 34

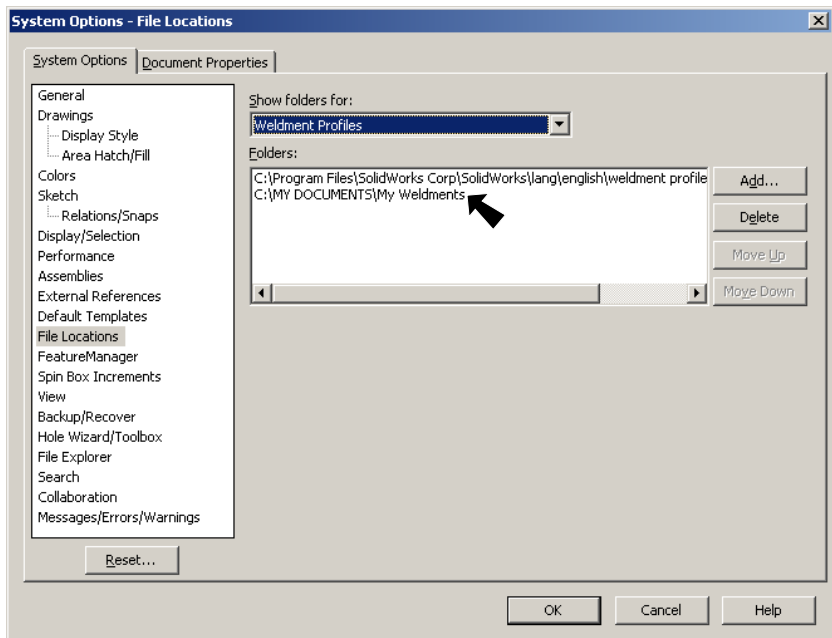


Fig. 36