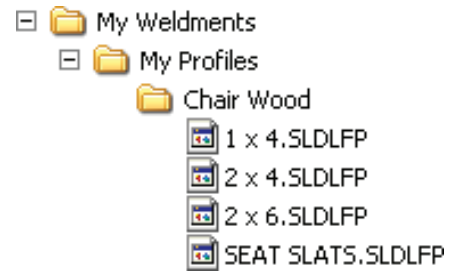


Chair Profiles



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**.

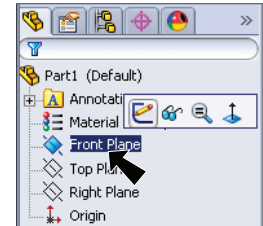


Fig. 1

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.

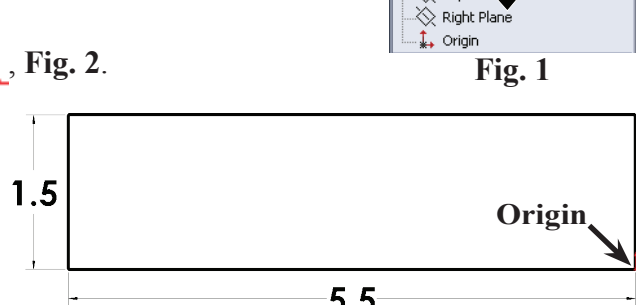


Fig. 2

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.

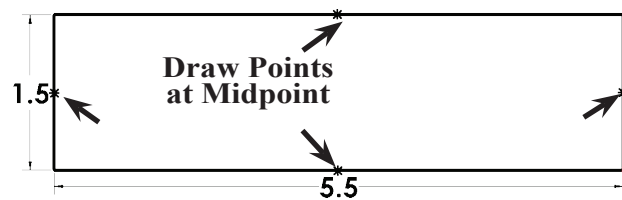


Fig. 3

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 Annotations**  in the Feature Manager and click **Show Feature Dimensions** from menu, **Fig. 4**.

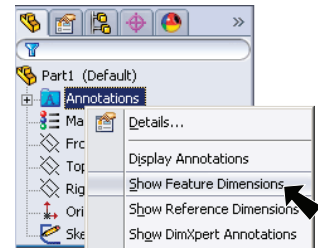


Fig. 4

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

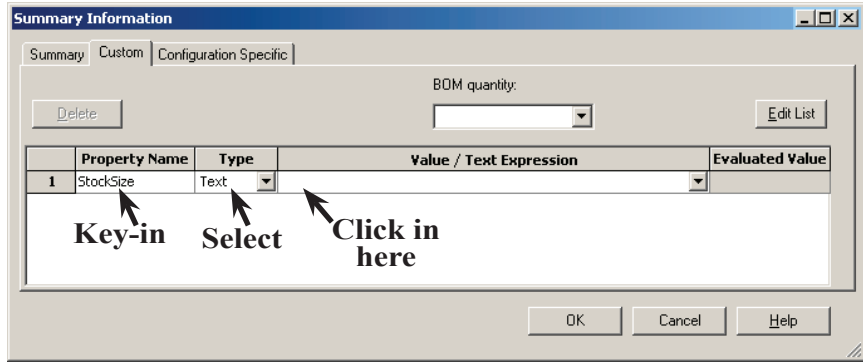
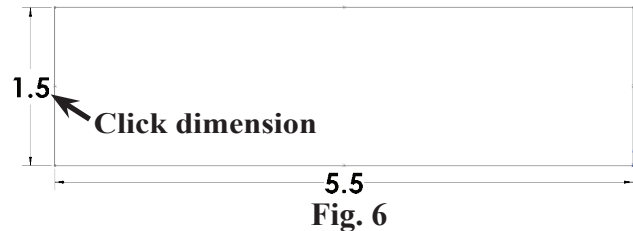


Fig. 5

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**



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"**

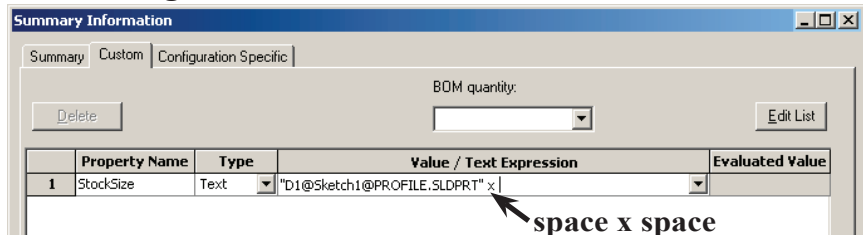


Fig. 7

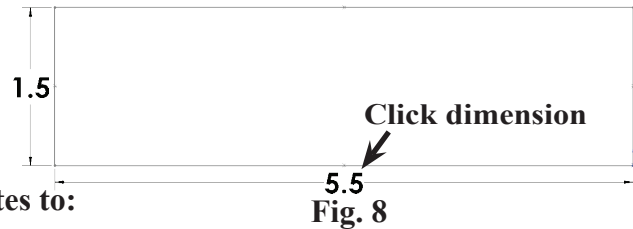


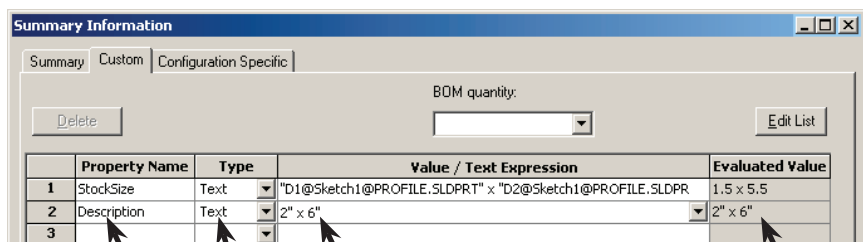
Fig. 8

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.

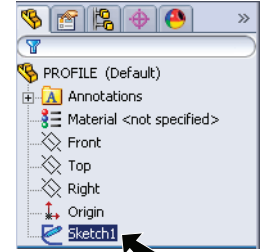


Fig. 10

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

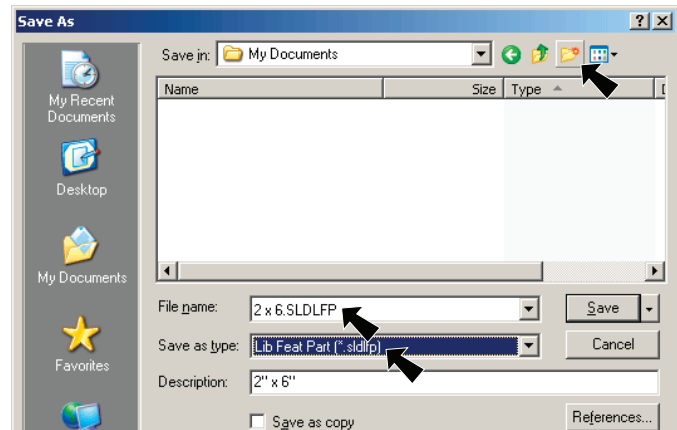


Fig. 11

click Create New Folder
key-in My Weldments for folder name, Fig. 12
double click My Weldments

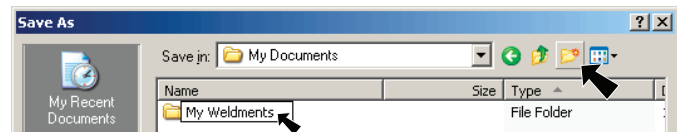


Fig. 12

click Create New Folder
key-in My Profiles for folder name, Fig. 13
double click My Profiles

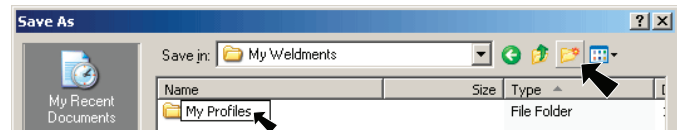


Fig. 13

click Create New Folder
key-in Chair Wood for folder name, Fig. 14
double click Chair Wood
click Save, Fig. 15.

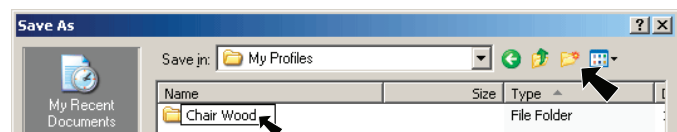


Fig. 14

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!

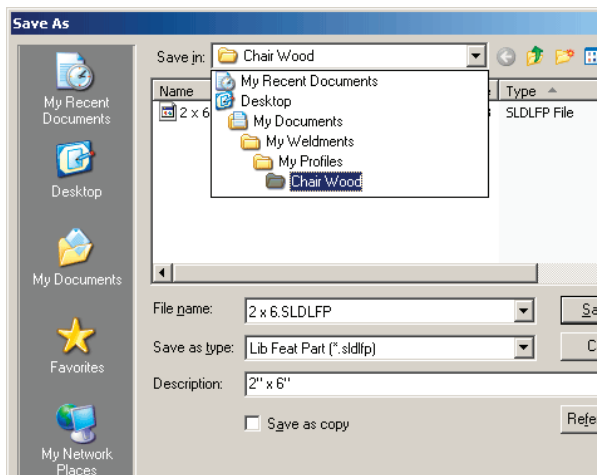


Fig. 16

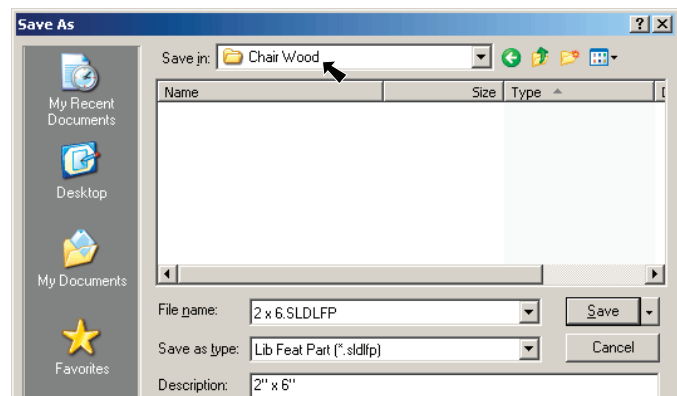
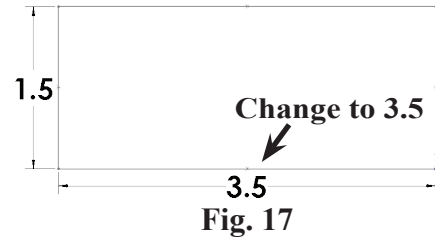



Fig. 15

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**)

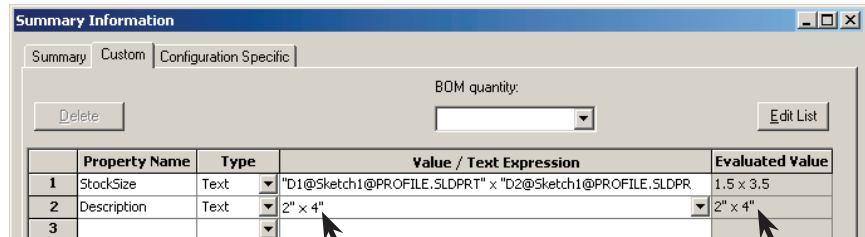
Step 3. Click File Menu > Properties.

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:

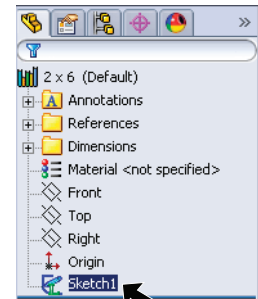
1.5 x 3.5

2" x 4"

click OK.

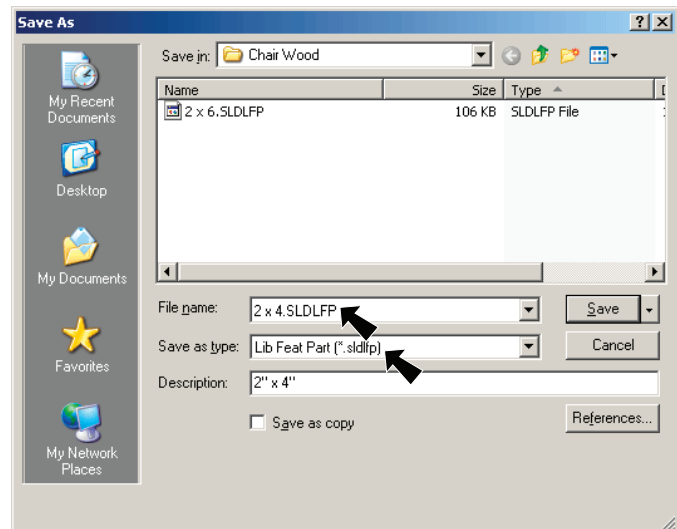


Step 5. **Click Sketch1** in the Feature Manager to select the sketch, **Fig. 19**. The Sketch must be selected when you save as Lib Feat.



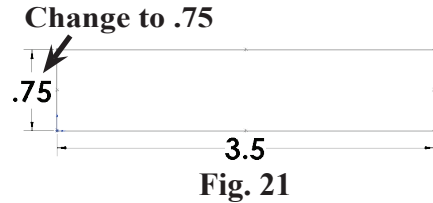
Step 6. Click File Menu > Save As.


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



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

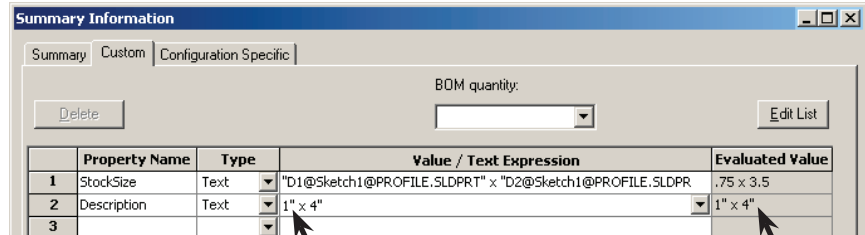
Step 3. Click File Menu > Properties.

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:**

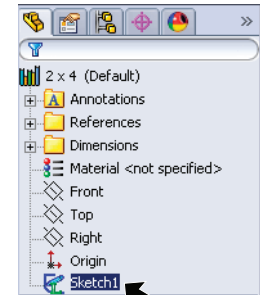
.75 x 3.5

1" x 4"

click OK.

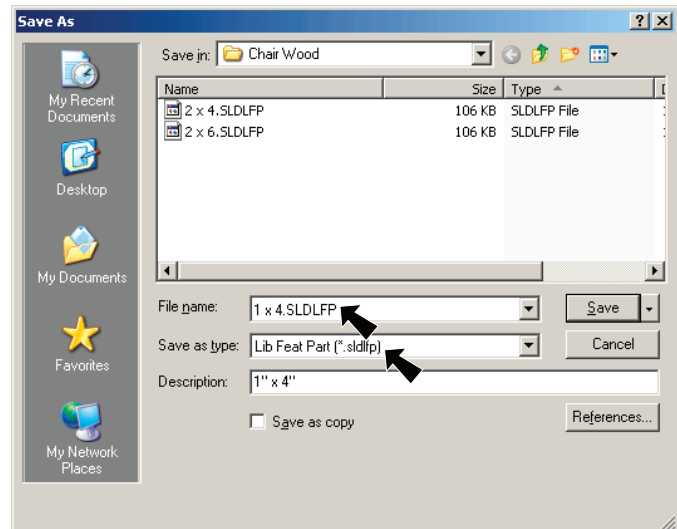


Step 5. Click **Sketch1** in the Feature Manager to select the sketch, Fig. 23. The Sketch must be selected when you save as Lib Feat.



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.

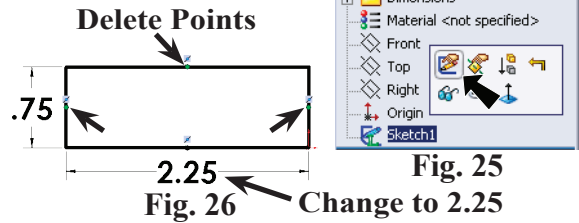


H. Seat Slats.

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**.

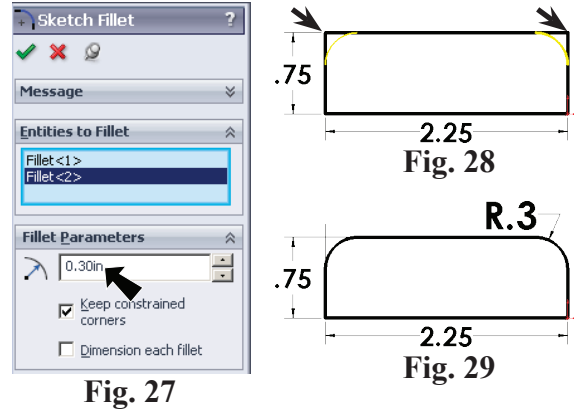
Step 3. **Delete 3 Points** at midpoint of lines, **Fig. 26**. **Do not** delete Point on bottom line To delete Points, Ctrl click each Point and press Delete key.




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

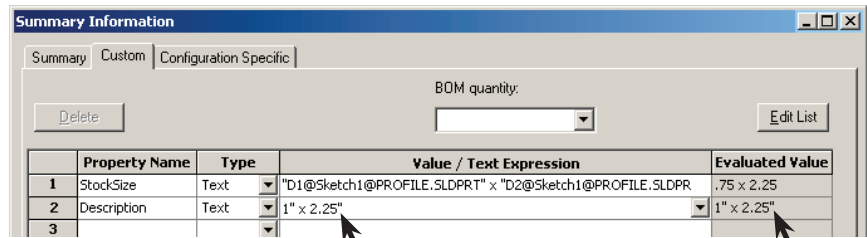
Step 5. In the Property Manager set:

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



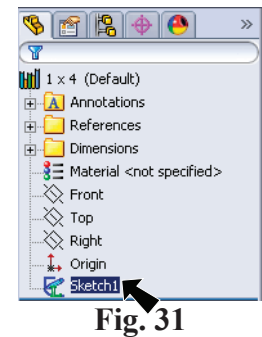
Step 6. Click **Exit Sketch**  on the Sketch toolbar.

Step 7. Click File Menu > Properties.



Change to 2.25
Fig. 30

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.

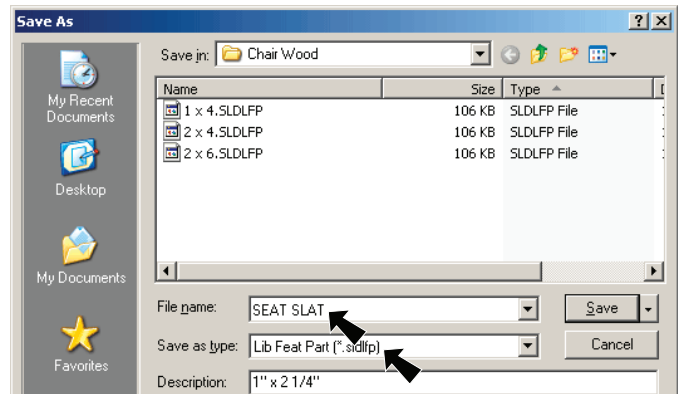


Fig. 32

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\data\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.

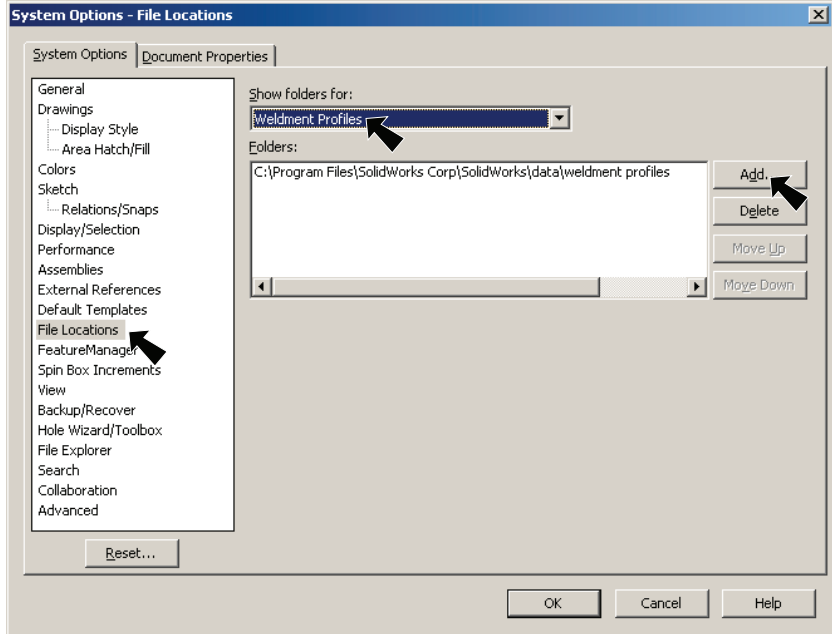


Fig. 33

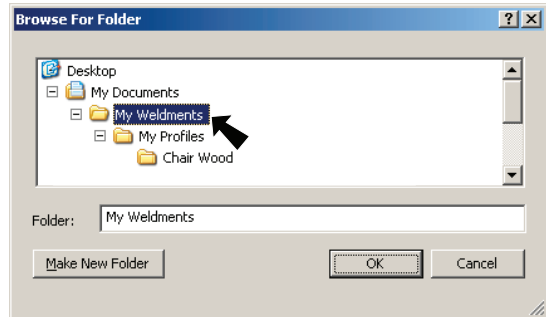


Fig. 35

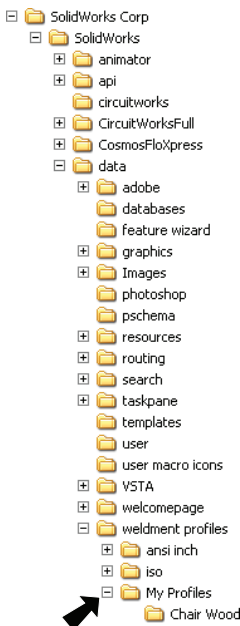


Fig. 34

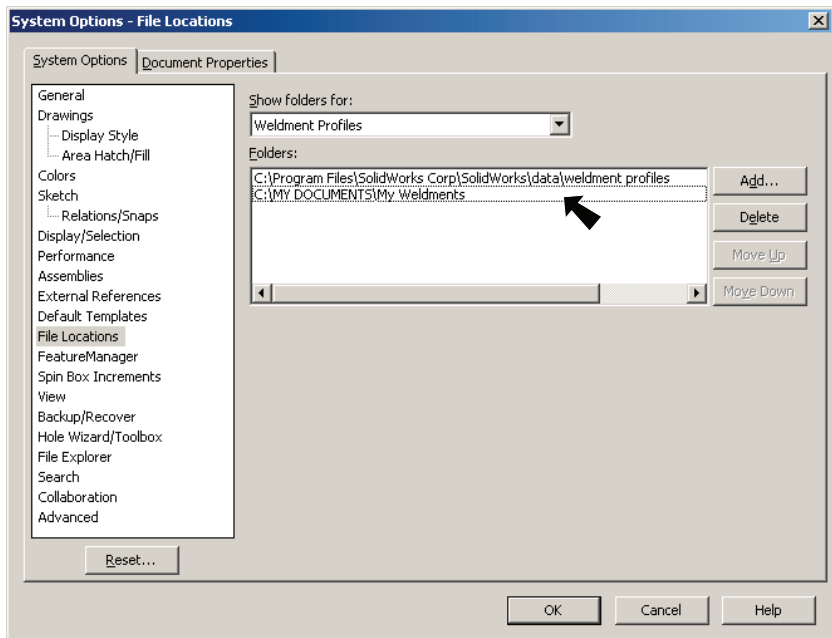


Fig. 36