

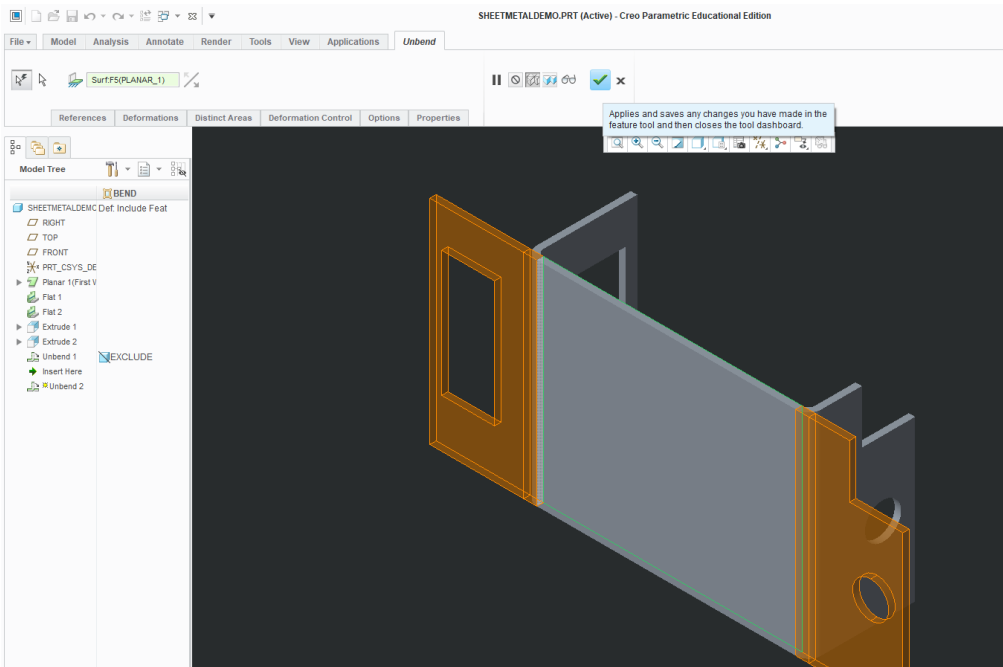
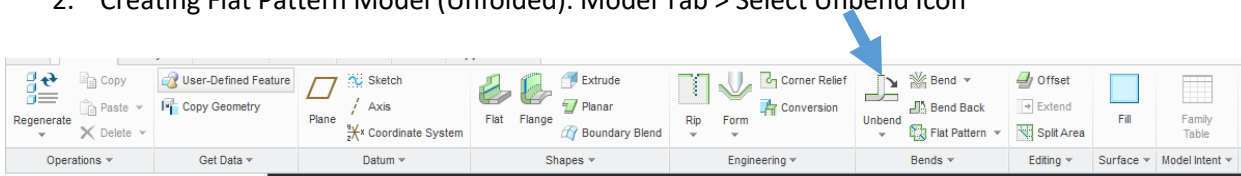
Tutorial: Sheet Metal Layout

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Minimum Required Views on a Sheet Metal Layout

- Flat Pattern
- Folded Pattern Views showing Bend Angles
- BOM Chart
- NOTES Providing
 - o Gauge
 - o Material
 - o Inside/Outside Bend Radius

1. Open Sheet Metal Model to be laid out
2. Creating Flat Pattern Model (Unfolded): Model Tab > Select Unbend Icon

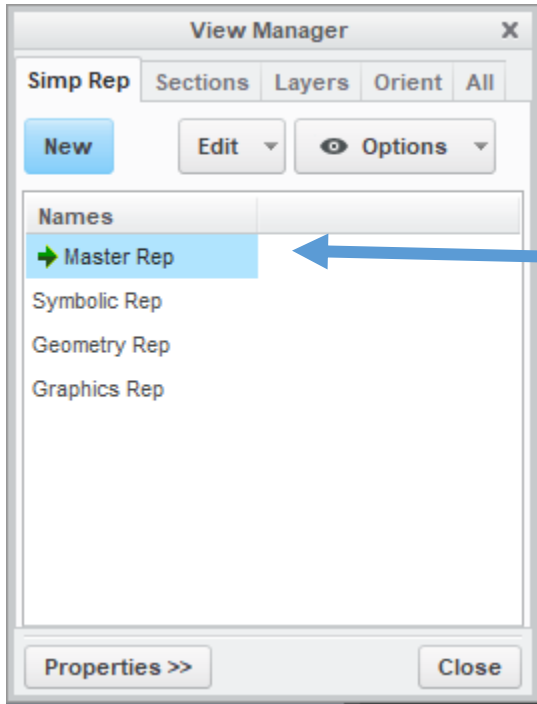


3. Green Check to accept the Unbend

4. Simp Rep: Allows user to create a version of the part that exclude/includes parts to the model tree or particular parts of an assembly.

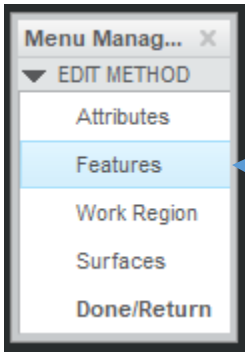
In this scenario the Unbend will be excluded to create a version of the part within the file that does not have a flatten feature

a. View Tab Model Tab > Manage Views > SimpRep Tab

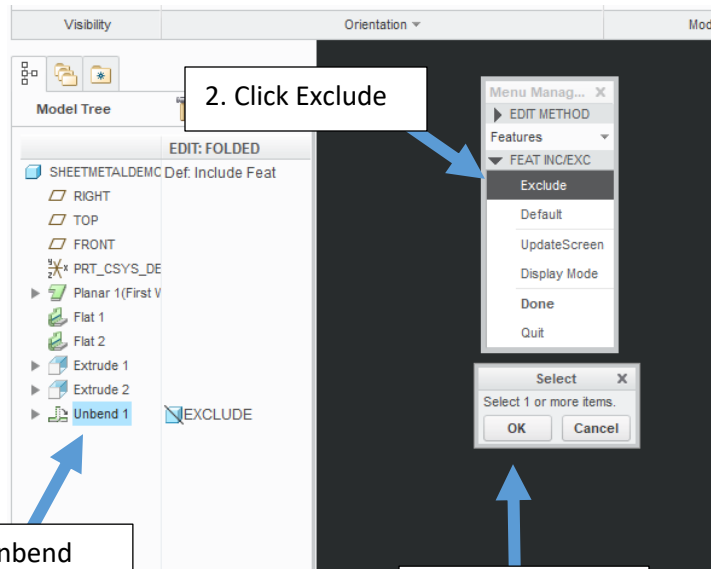


Master Rep: By Default incorporates all of the Features of the model. The only features the Master Rep may not have would be any feature added to a newly created Rep.

b. Click New > Name it Folded > Press Enter Key > Pop up Menu Manager will appear



1. Click Features

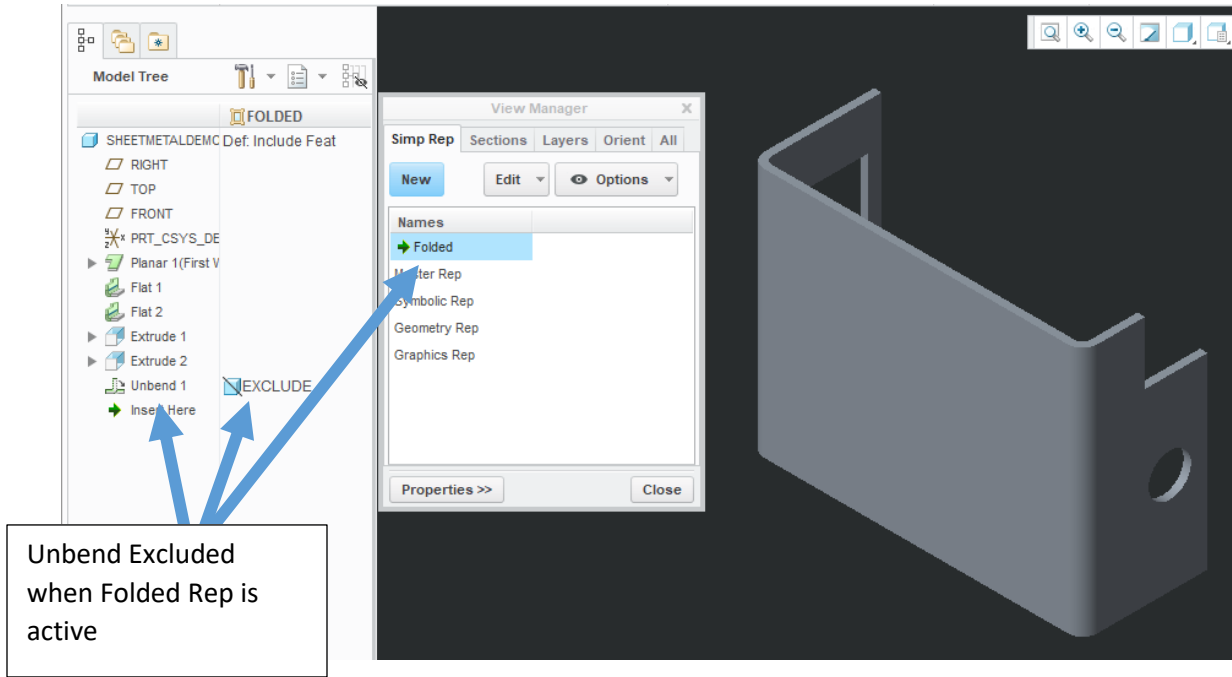


2. Click Exclude

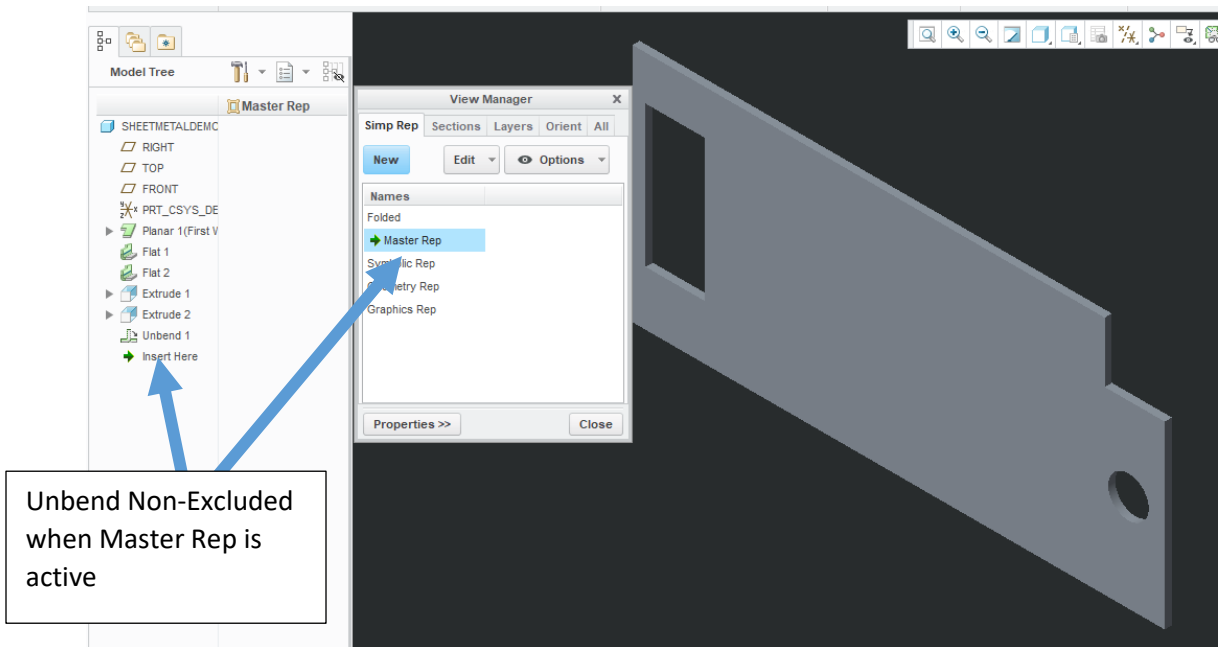
3. Click Unbend

Click OK > Done

c. Completed Part

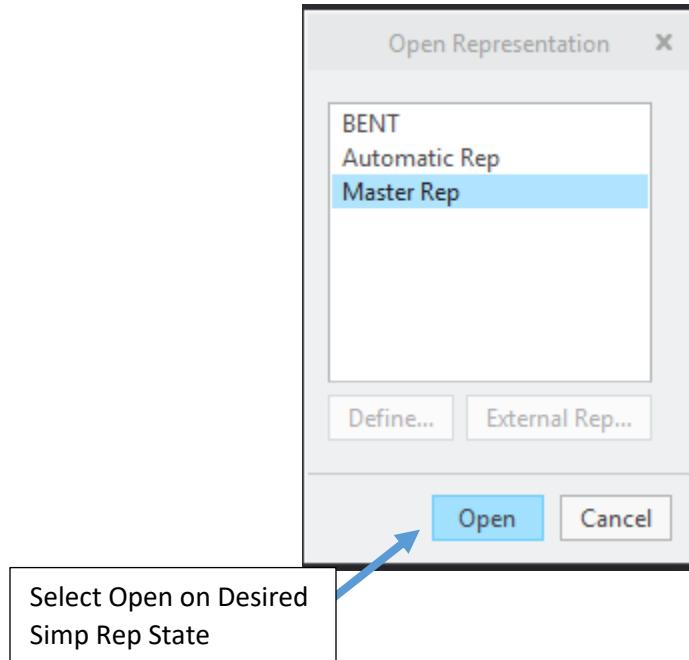


Double Click on Master Rep to activate

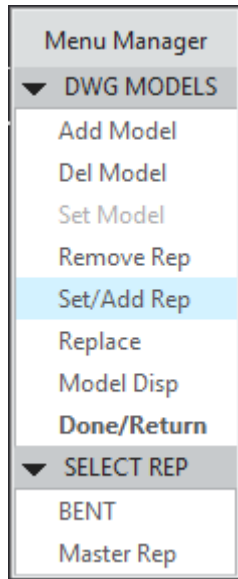
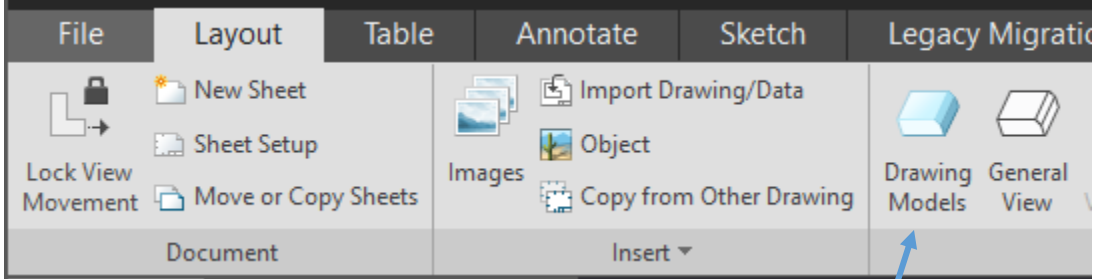


Layout Drawing

After setting up the Format for the desired Title Block Creo will prompt the user to select which Simp Rep State they would like to start in. See Below



Changing Simp Rep State in Layout



Select Layout Tab > Drawing Models > Menu Manager will pop up > Select Set/Add Rep > Select desired Rep

Layout Views/Notes

Unfolded View

Place Centerlines; Include Centerlines at the nominal position for the nominal bend area

Ordinate Dimension complete Part

NOTE: Set Ordinate dimension on the centerline of the nominal bend area; DO NOT dimension the sides of the nominal bend area, since this can change based a variety of factors.

Folded View(s) showing all bend angles

Dimensions

Overall Measures (excluding thickness; stated as Gauge)

Bend Angles (even if 90 Degrees) NOTE: May Shop Note

Ie NOTE: ALL BEND ANGLES 90 DEGREES

Ie NOTE: ALL UNMARKED BEND ANGLES 90 DEGREES

NOTE: Number of views will depend on object and manufacturer.

Isometric

Shop Note

Material

Gauge

Inside Bend Radius

Outside Bend Radius

