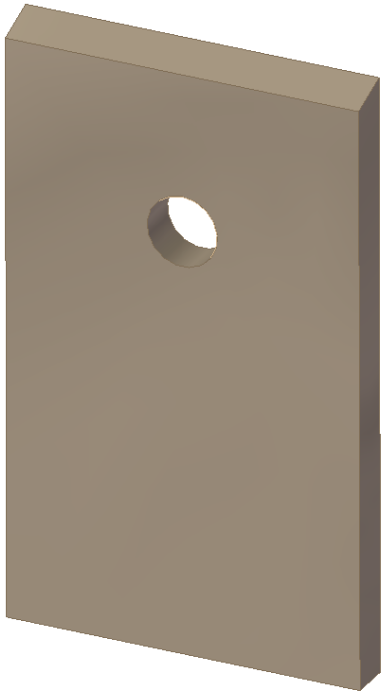
SOLID EDGE
VELOCITY SERIES

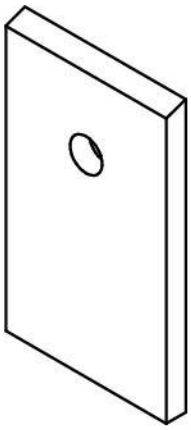


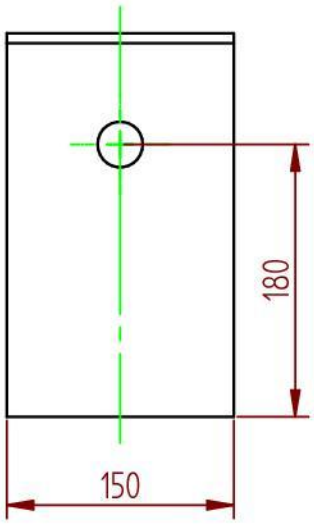
Tutorial: ***Front plate***

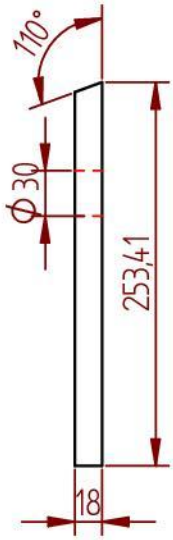
Project: ***Bird House (Synchronous)***

cad / cam / pdm / cae | CAAP®

Solution Partner PLM | SIEMENS

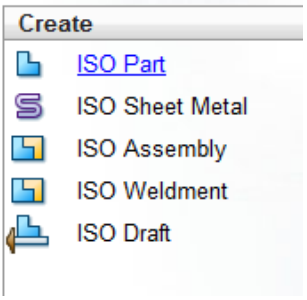
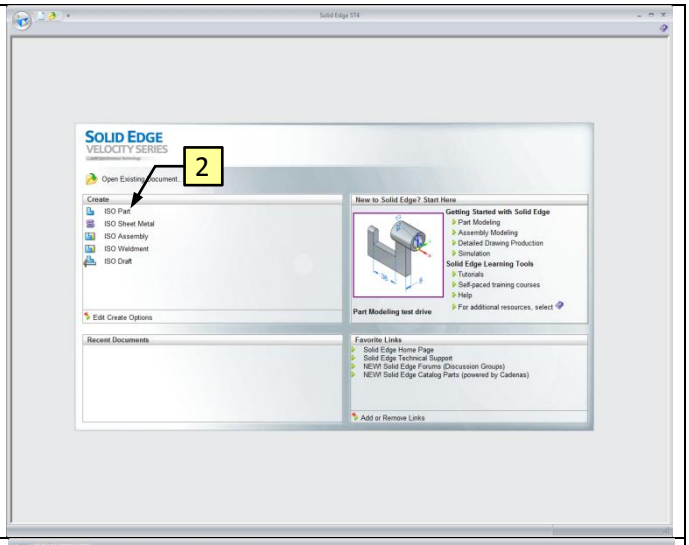
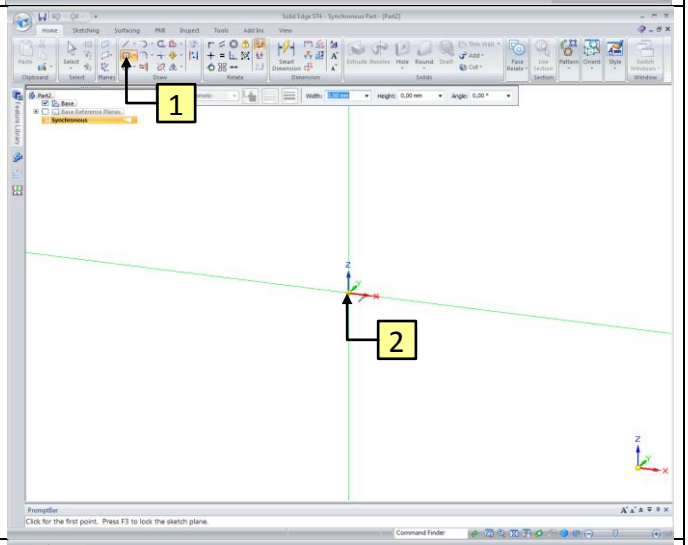
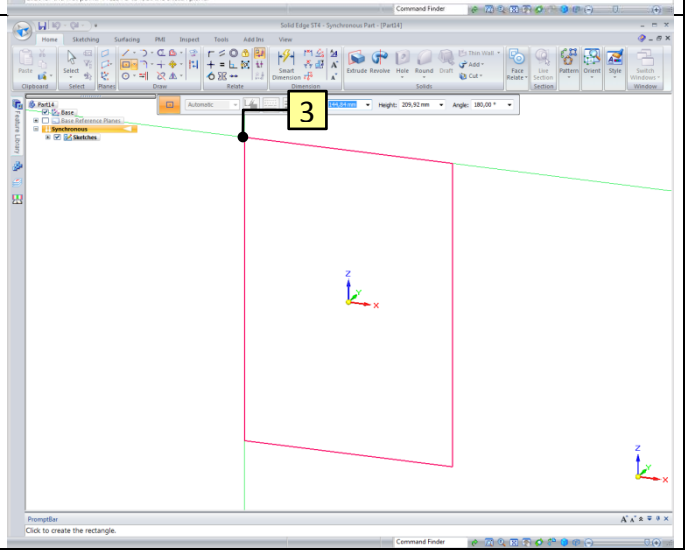


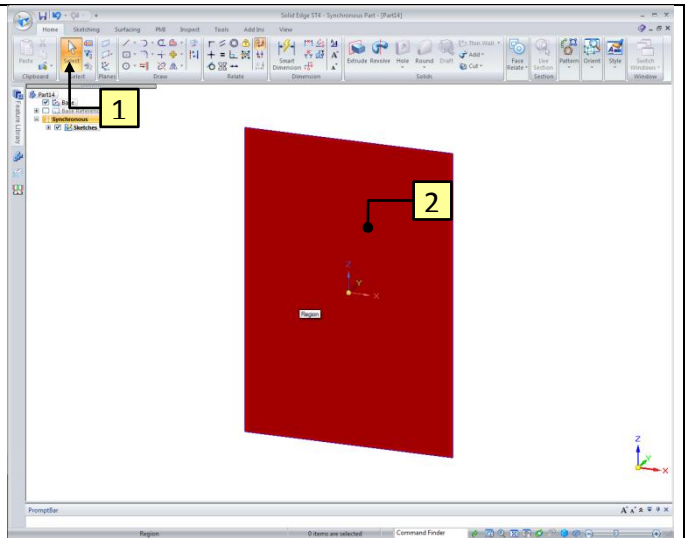
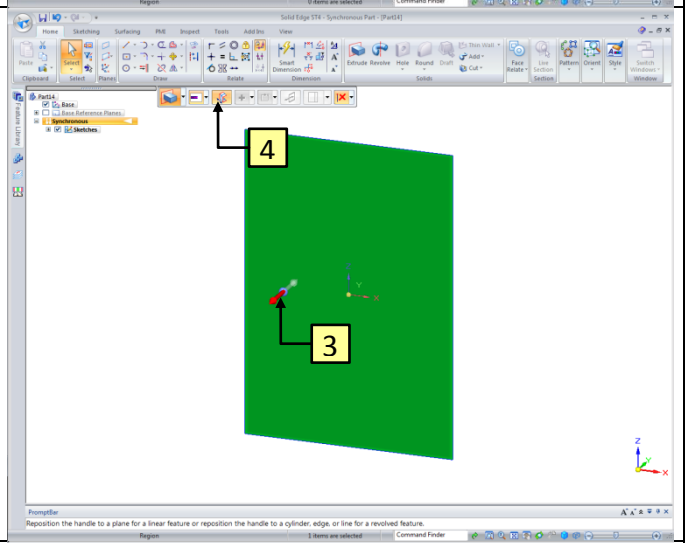
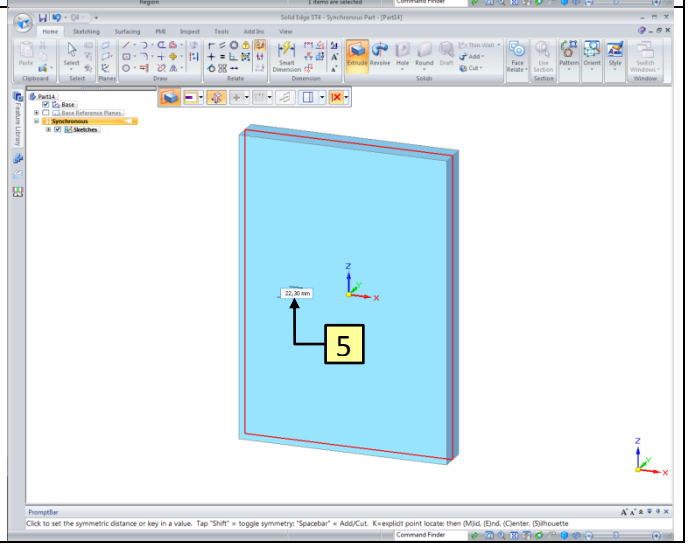


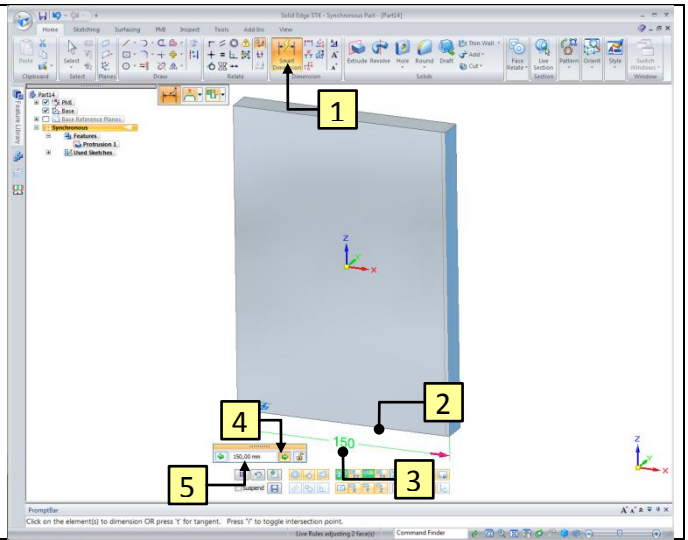
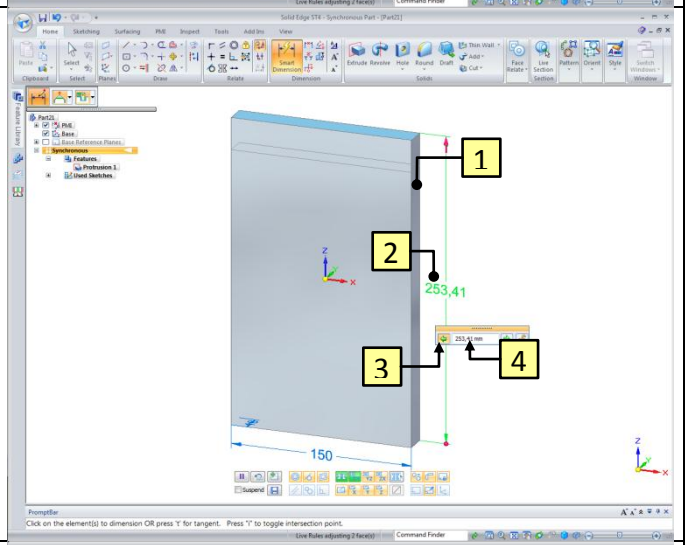
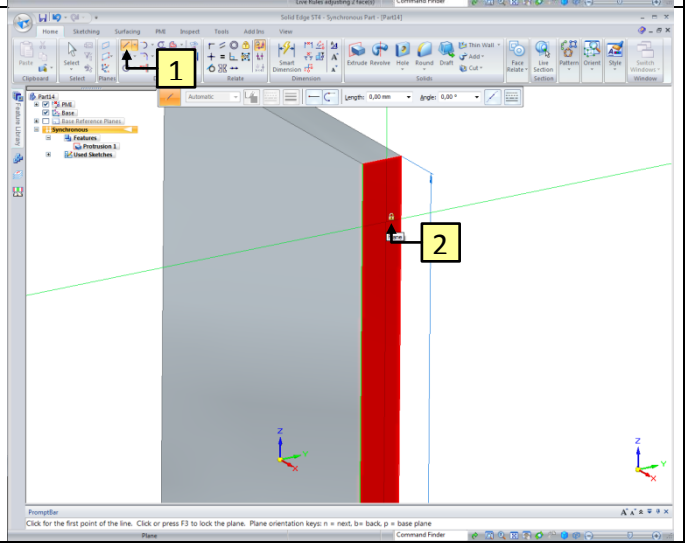


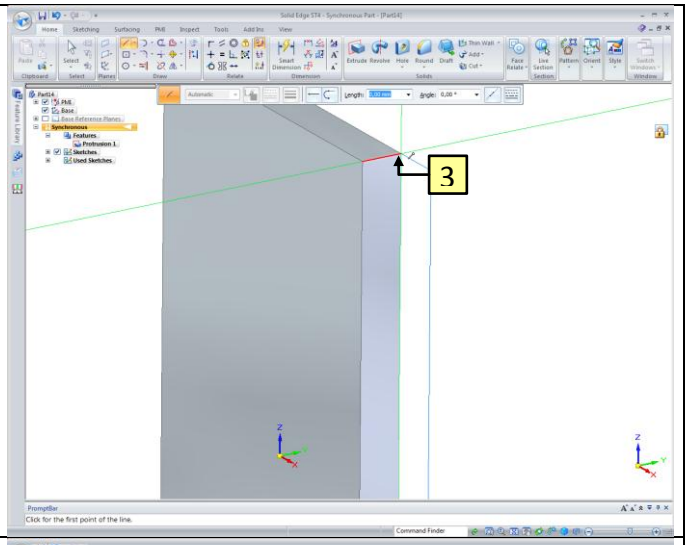
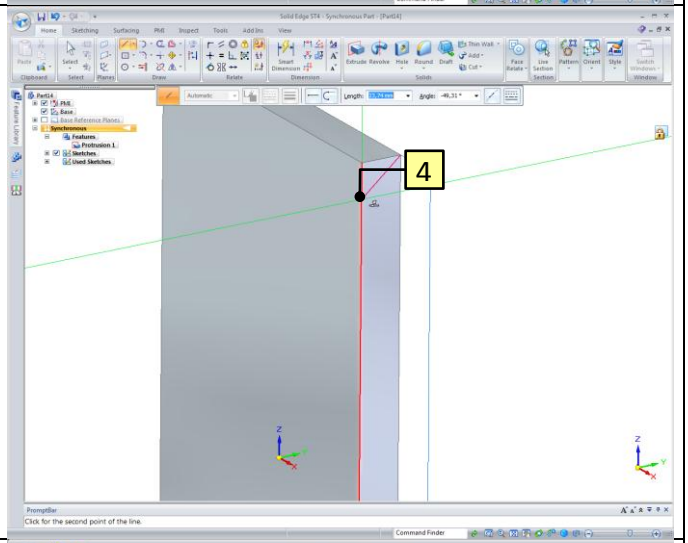
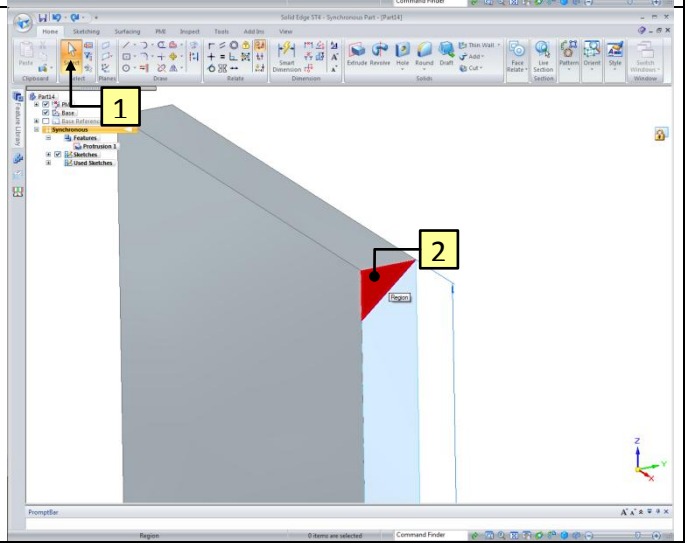
AMERICAN PROJECTION	SCALE : 1:5	AUTHOR : Ruben	CAAP Hamersveldseweg 65 3833 GL Leusden +31(0)33-4573322 www.caap.nl
	DIMENSION UNITS : MM	CLASS (DEPARTMENT) : -	
	DATE : 15-10-2011	CHECKED BY : -	

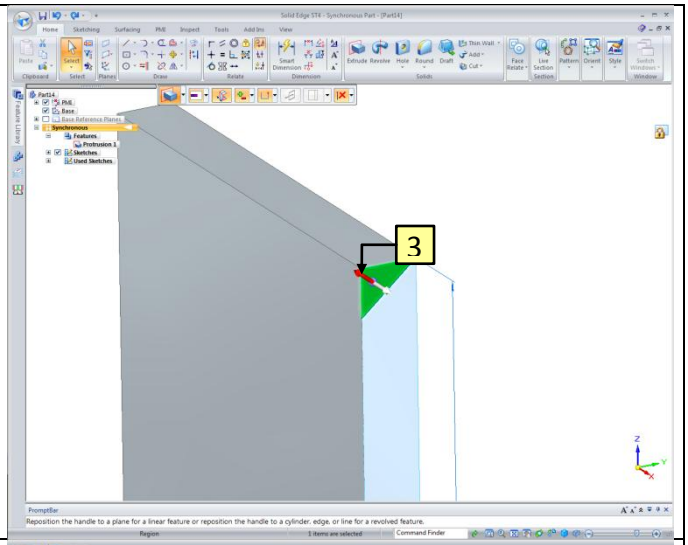
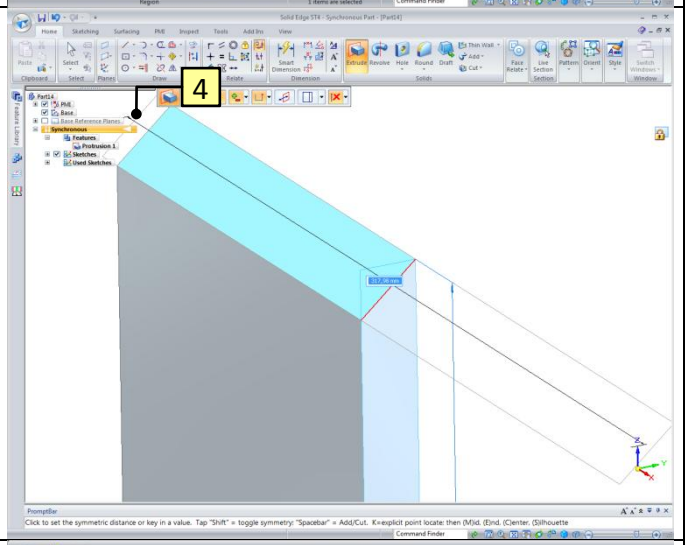
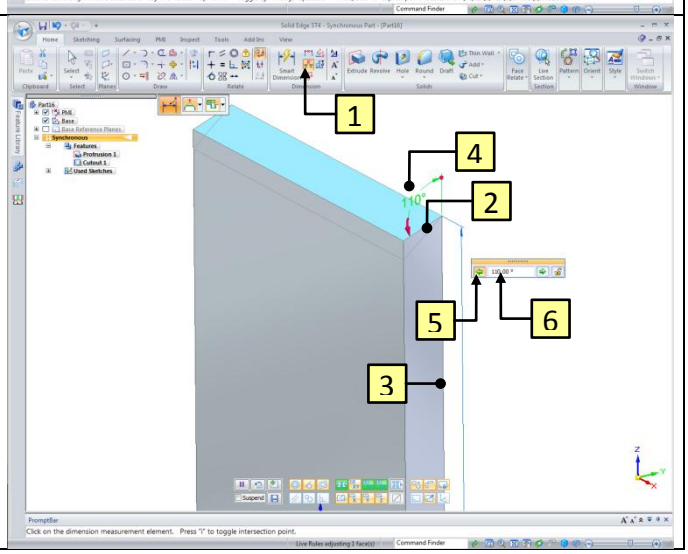
MATERIAL : Wood, Oak	TITEL :	NUMBER :	REV:	SIZE:
PROJECT: Birdhouse	Frontplate	1006	A	A4

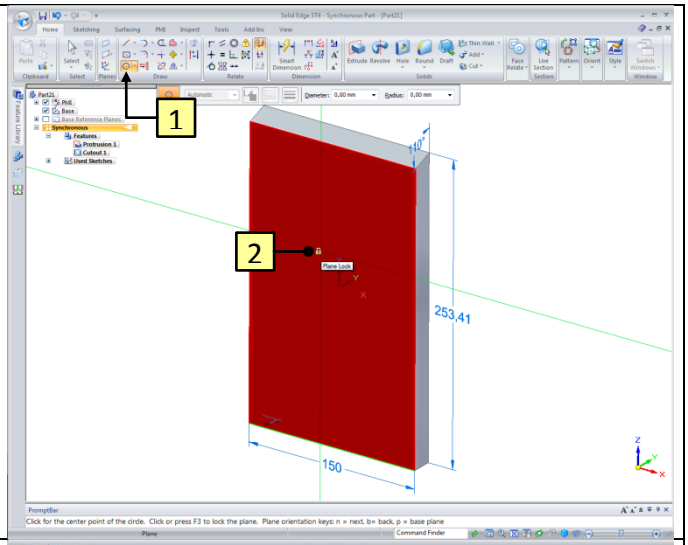
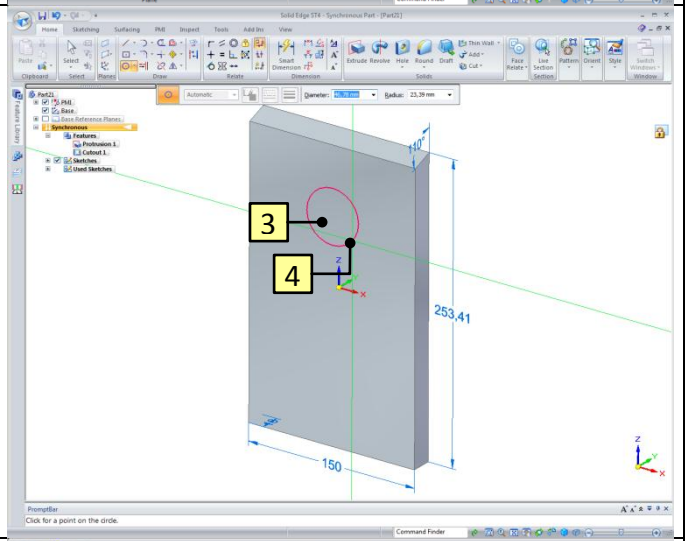
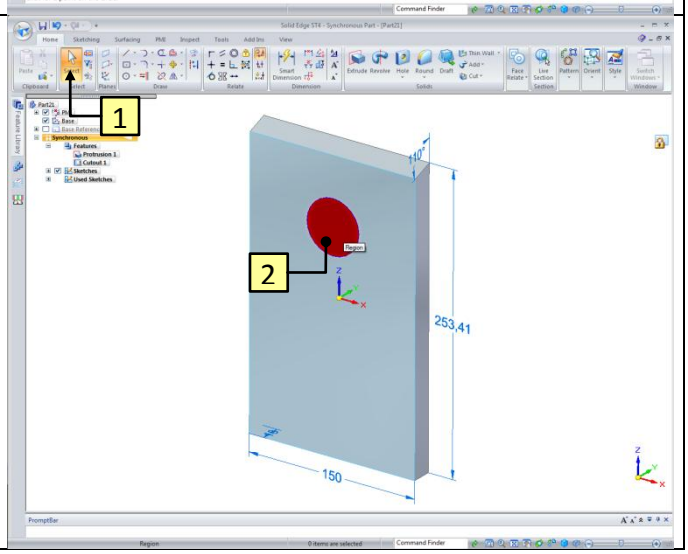
1  + 	1. Start **Solid Edge.** 2. Click on **ISO Part.** 	
2 	1. Click the **Rectangle by Center** button. 2. Point at the **Origin** and wait until the  icon appears before clicking.	
3 	3. Click to place the **Rectangle**.	

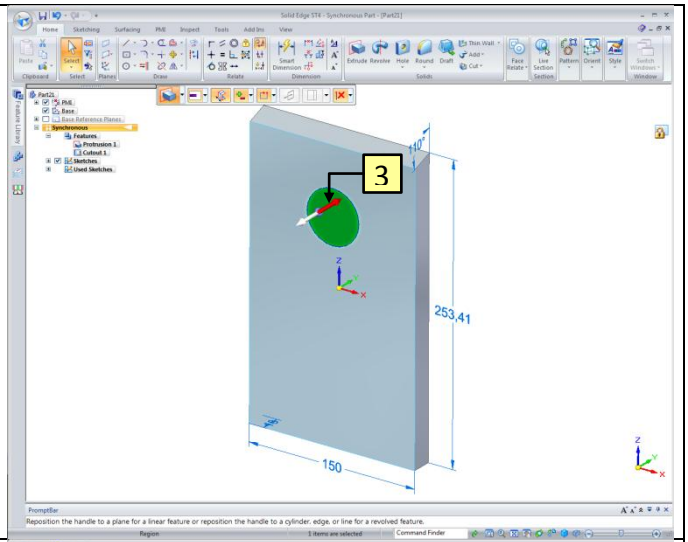
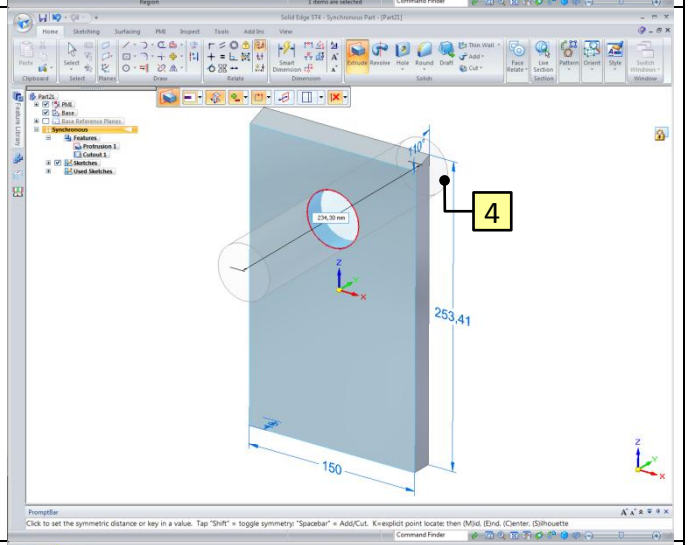
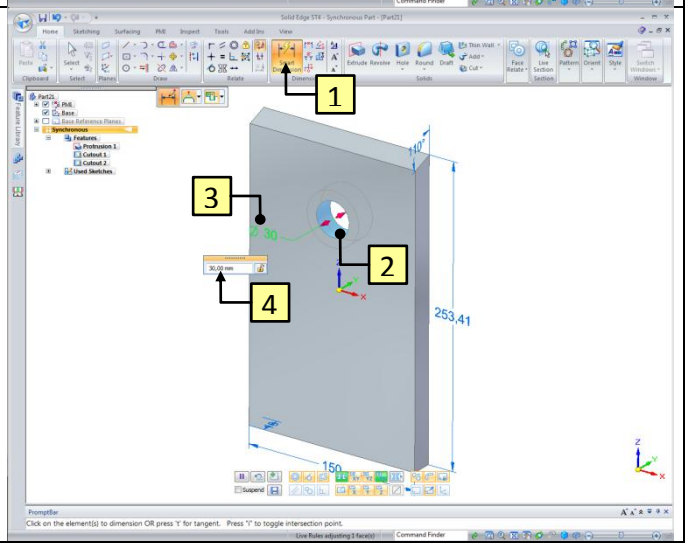
4 	1. Click the **Select** button. 2. When you hover over the Region, it will turn red. Click on the Region, as shown.	
5 	3. When you hover over the arrow, it will turn red. Click on the arrow, as shown. 4. Click the **Extrude – Symmetric** button.	
6 	5. Key in the value **18** and confirm with **Enter**.	

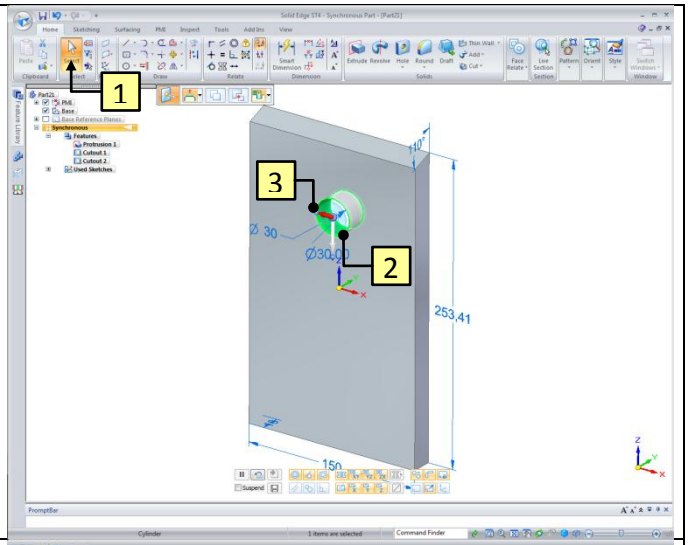
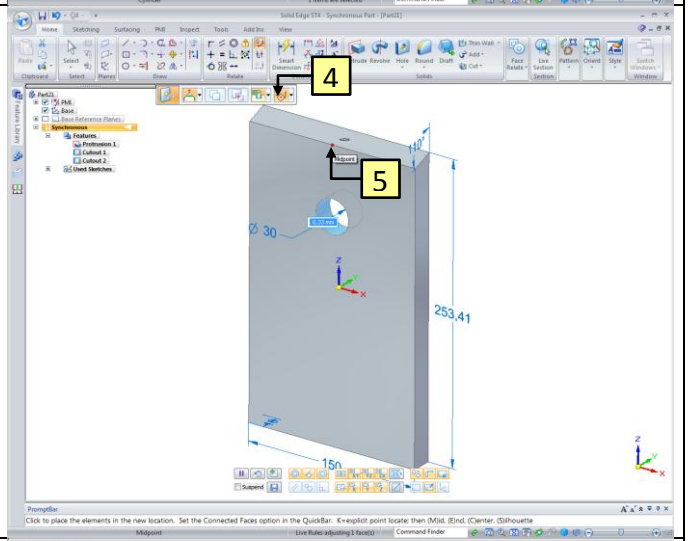
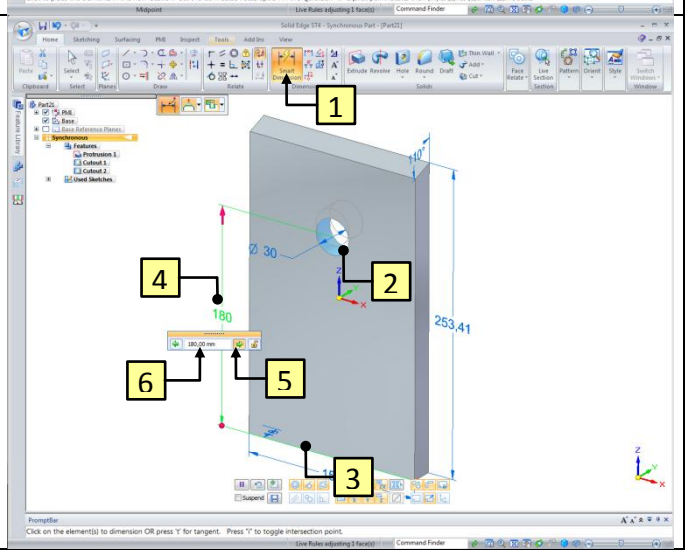
7  	1. Click the **Smart Dimension** button. 2. Click the horizontal line. 3. Click to place the dimension. 4. Click on the right green arrow. 5. Key in the value **150** and confirm with **Enter**.	
8  	If the **Smart Dimension** is still active. 1. Click the right vertical line. 2. Click to place the dimension. 3. Click on the left green arrow. 4. Key in the value **253,41** and confirm with **Enter**.	
9  + 	1. Click the **Line** button. 2. Point at the plane and wait until the lock icon appears. Click on the lock icon.	

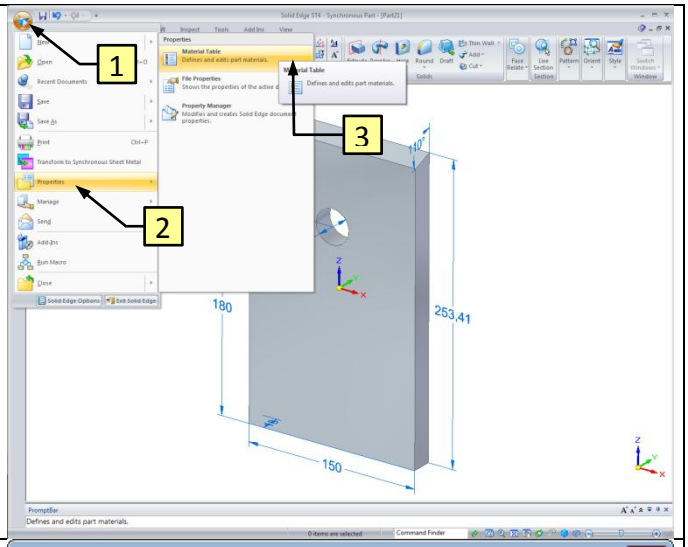
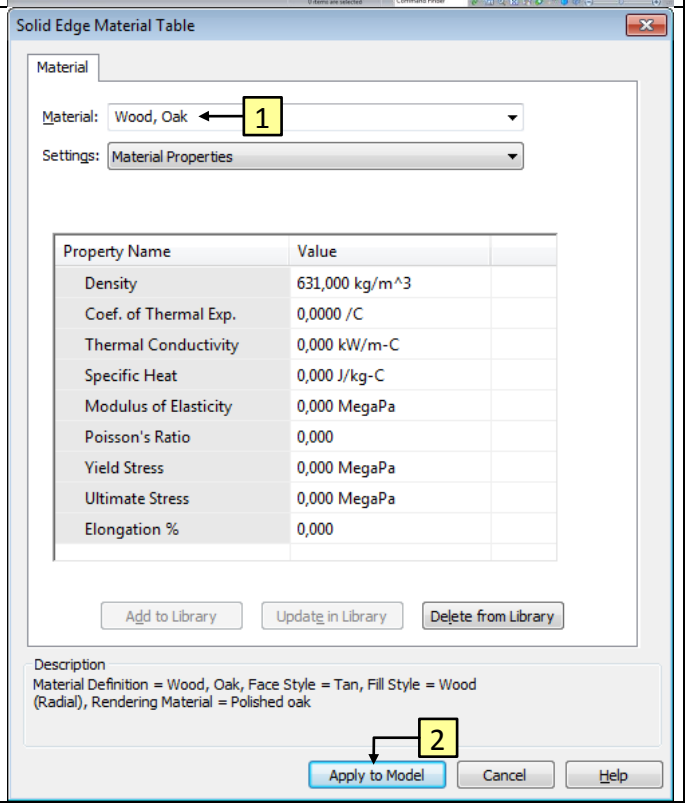
10	3. Point at the right end point of the horizontal line and wait until the icon appears before clicking.	
11	4. Point at the left vertical line and wait until the icon appears before clicking.	
12	1. Click the **Select** button. 2. When you hover over the Region, it will turn red. Click on the Region, as shown.	

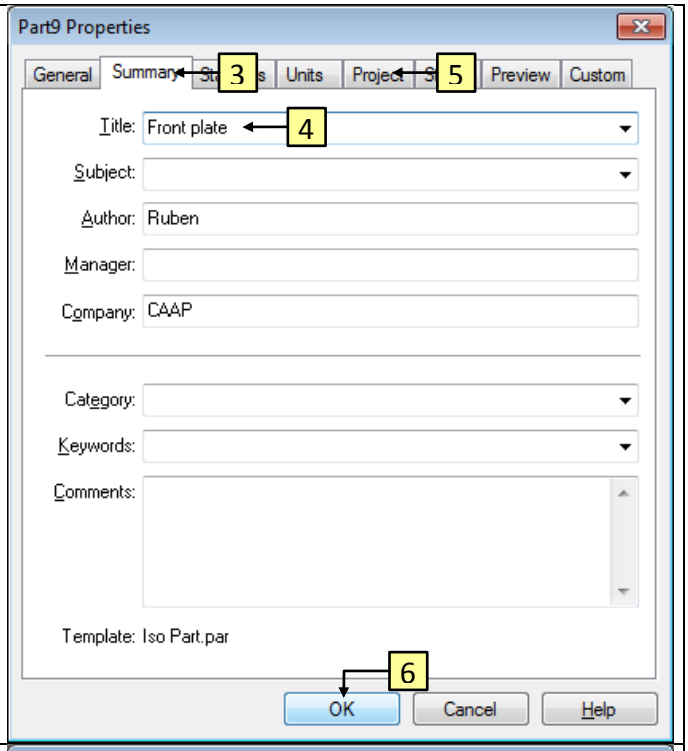
13 	3. When you hover over the arrow, it will turn red. Click on the arrow, as shown.	
14 	4. Make sure the Section is through the entire material and click.	
15 	1. Click the **Angle Between** button. 2. Click on the slanted line. 3. Click on the right vertical line. 4. Click to place the dimension. 5. Click on the left green arrow. 6. Key in the value **110** and confirm with **Enter**.	

16  + 	1. Click the **Circle by Center Point** button. 2. Point at the plane and wait until the lock icon appears. Click on the lock icon.	
17 	3. Click on the plane, to place the center of the circle. 4. Click to place the circle.	
18 	1. Click to **Select** button. 2. When you hover over the Region, it will turn red. Click on the Region, as shown.	

19 	3. When you hover over the arrow, it will turn red. Click on the arrow, as shown.	
20 	4. Make sure the Section is through the entire material and click.	
21 	1. Click the **Smart Dimension** button. 2. Click on the edge of the Hole. 3. Click to place the dimension. 4. Key in the value **30** and confirm with **Enter**.	

22 	1. Click the **Select** button. 2. Click on the Hole. 3. When you hover over the arrow, it will turn red. Click on the arrow, as shown.	
23 	4. Make sure the keypoint type is **All**. 5. Point ath the middle point of the horizontal line and wait until the ⊶ icon appears before clicking.	
24 	1. Click the **Smart Dimension** button. 2. Click on the edge of the Hole. 3. Click on the horizontal line. 4. Click to place the dimension. 5. Click on the right green arrow. 6. Key in the value **180** and confirm with **Enter**.	

25	Now we set the material property. 1. Click the **Application Button**. 2. Click on **Properties**. 3. Click the **Material Table**.	
26	1. Choose the material **Wood, Oak**. 2. Click **Apply to Model** to set the material to the part. ***Hint:*** *There are several properties which are connected to a material, like color en density. The density is necessary to determine the weight.*	

27 	The part is ready. Now it must be saved. 1. First press **Ctrl** and **i** to turn the image to isometric view. 2. Click on the floppy icon. 3. Go to the **Summary** tab**.** 4. Type *Front plate* at Title. 5. Go to the **Project** tab and fill in the following properties: Document Number*: 1006*. Revision Number*: A*. Project Name: *Bird House*. 6. Click **OK** to close the screen. ***Hint:*** *All properties of the part are saved at the **File Properties**. These properties will be used by making a drawing or part list.*	
28 	1. Browse to the folder named *Bird House*. *2.* Save the document by name *Bird House-1006-Frontplate-A.par*. *3.* Click the **Save** button. 4. Close the file. ***Hint:*** *Save all files of one project in the same folder.*