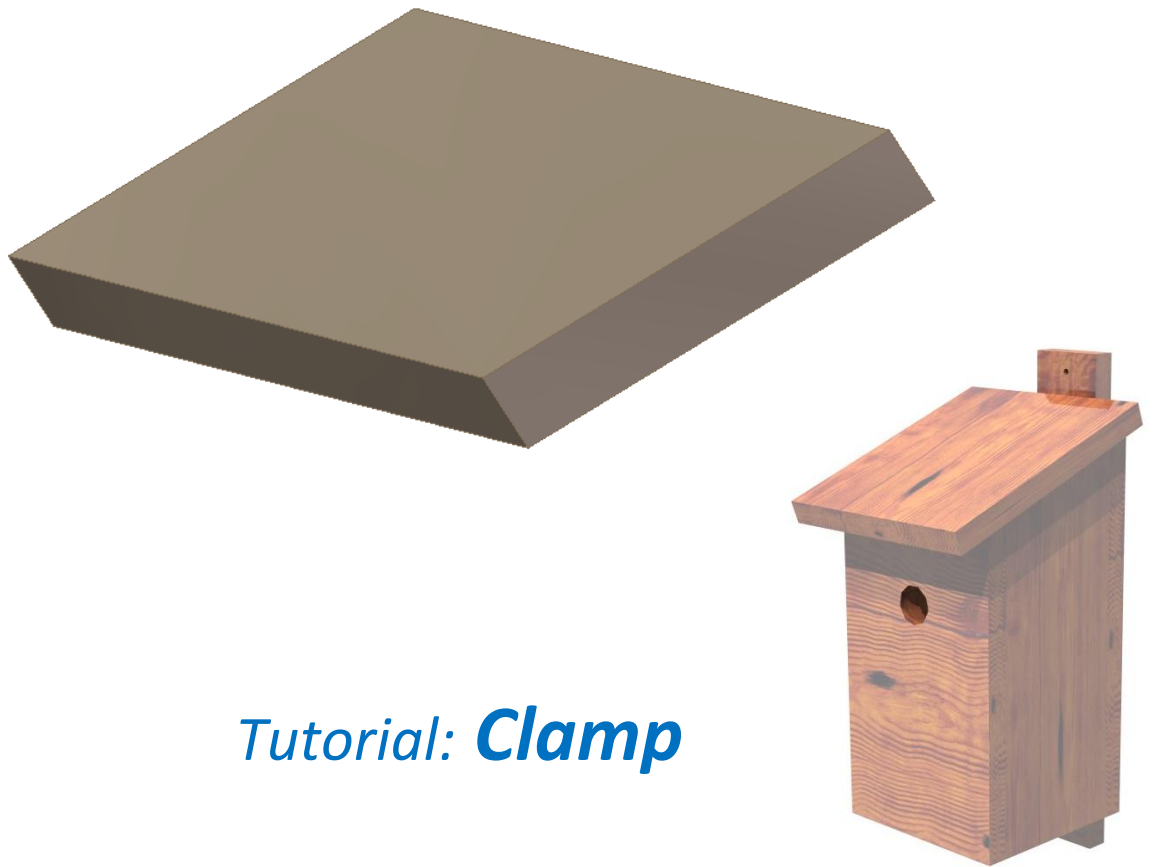


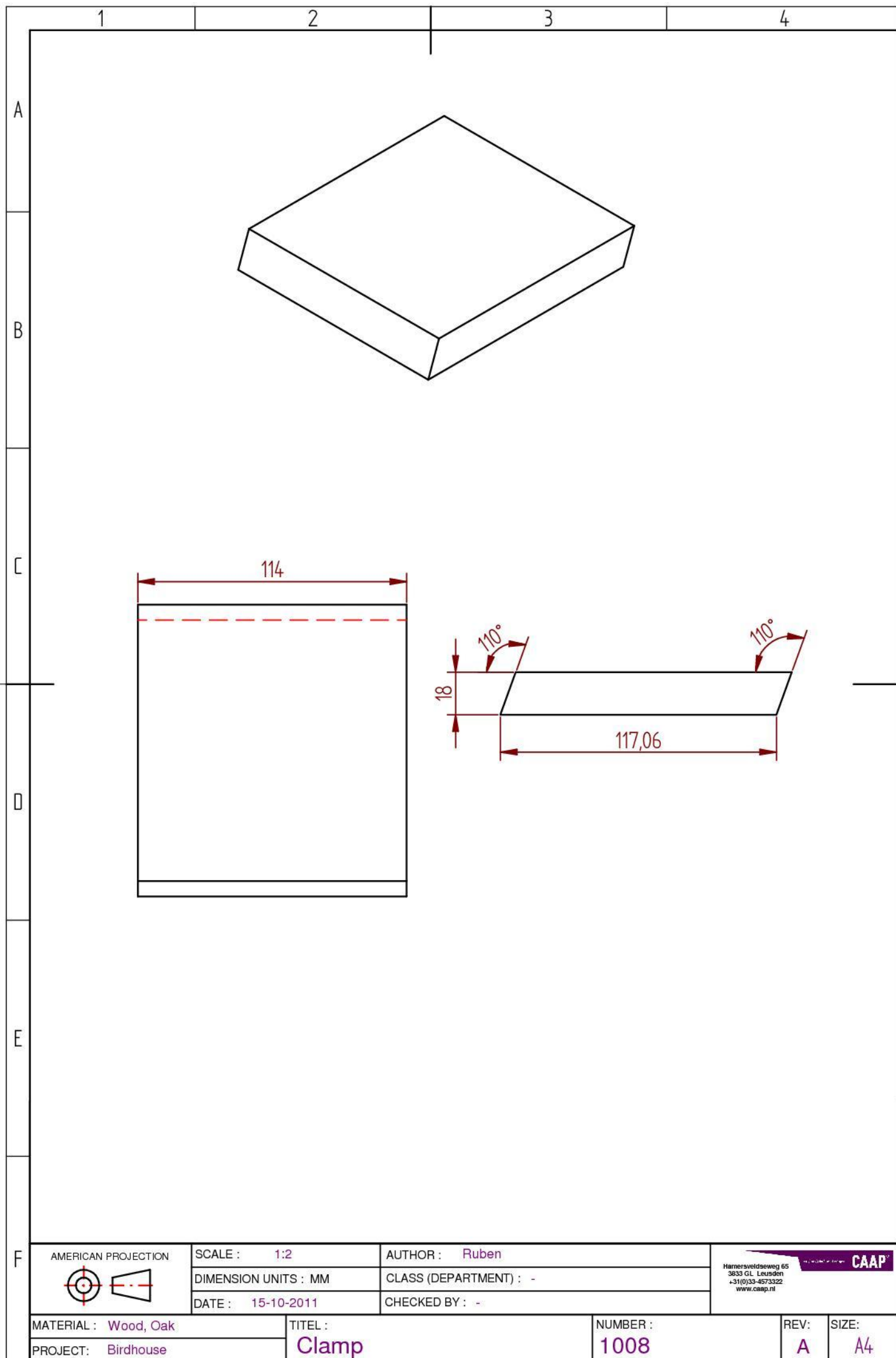
# SOLID EDGE



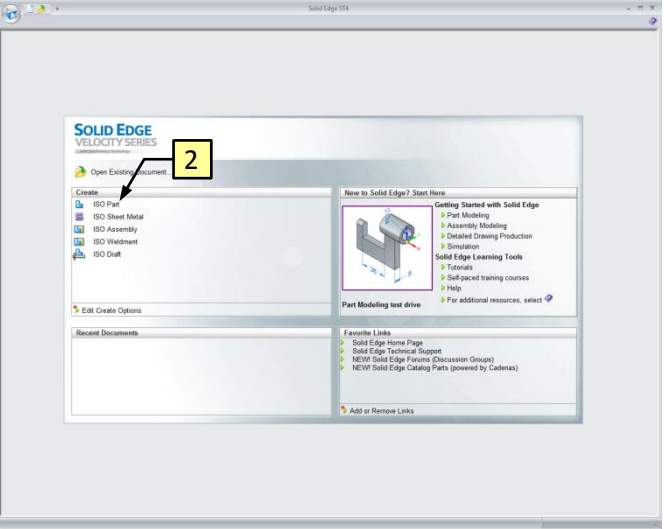


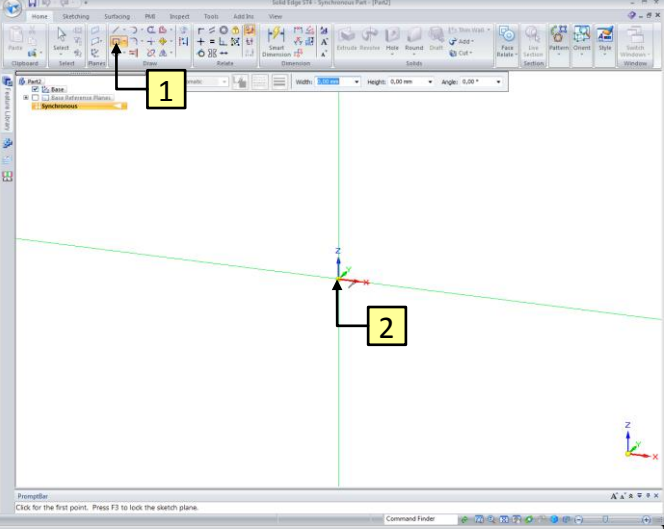

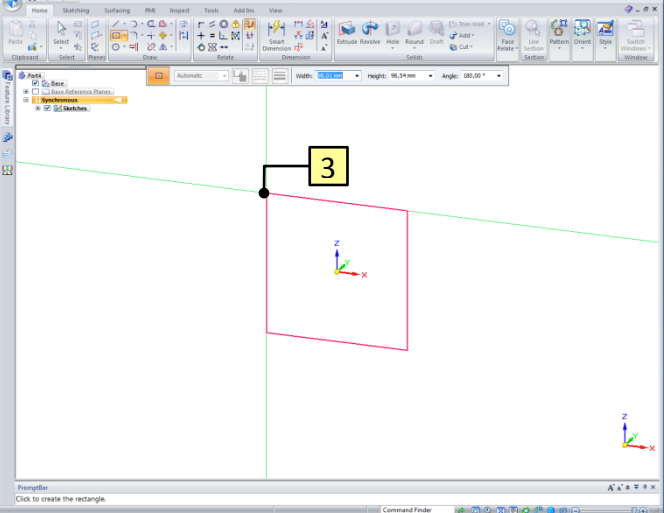
## VELOCITY SERIES


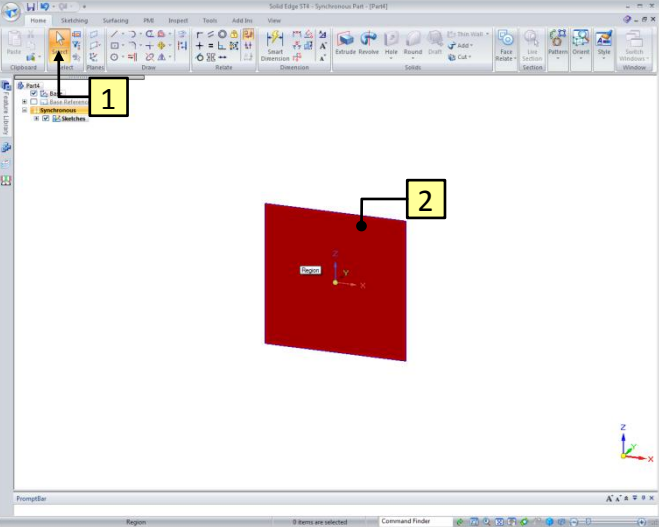

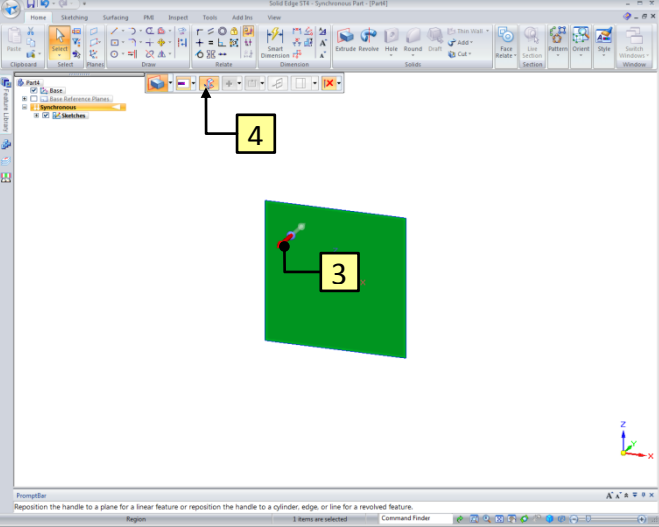

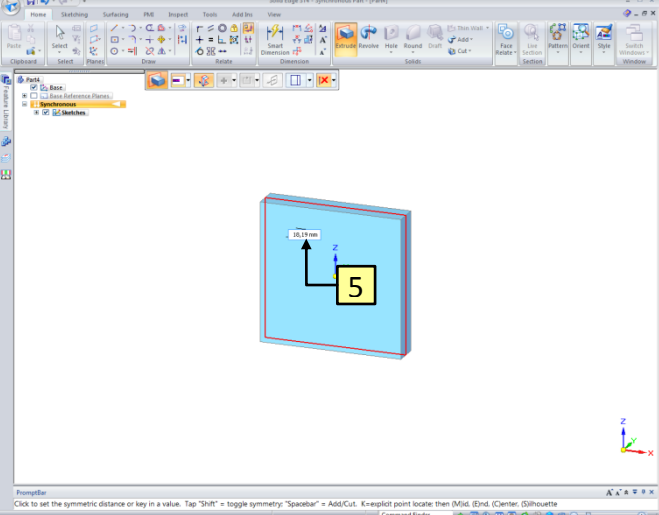




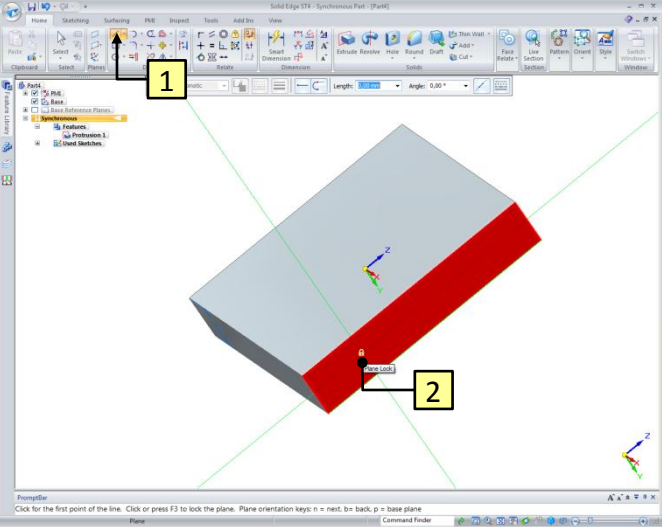



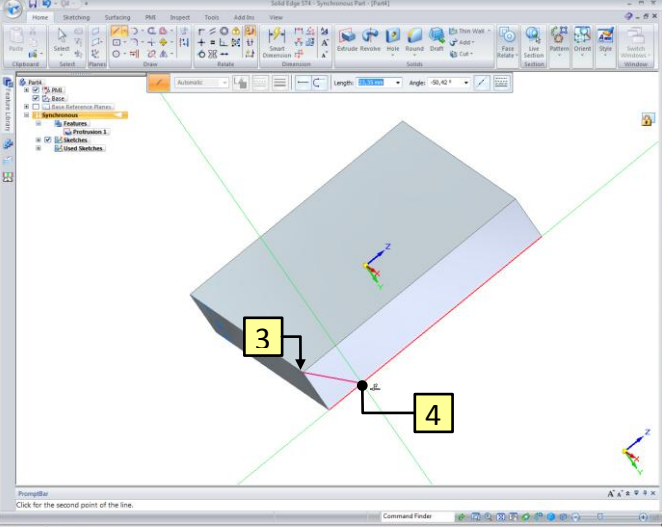



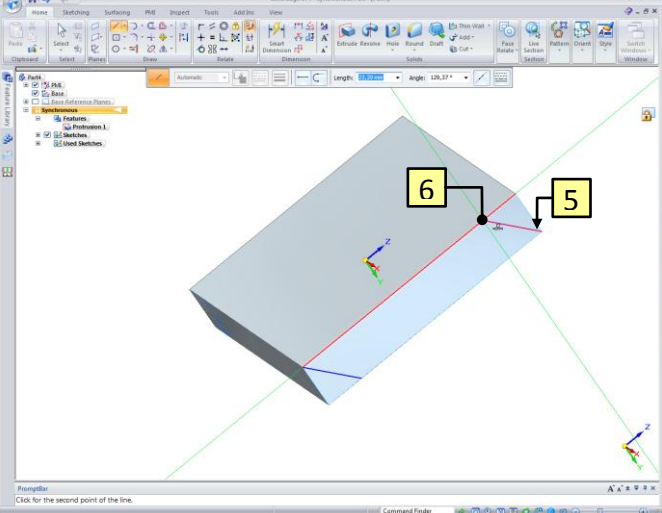
*Tutorial: **Clamp***

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



<p>1</p>  <p>+</p> 	<ol style="list-style-type: none"> <li>1. Start <b>Solid Edge</b>.</li> <li>2. Click on <b>ISO Part</b>.</li> </ol> <div data-bbox="311 414 614 705"> <p>Create</p> <ul style="list-style-type: none"> <li>ISO Part</li> <li>ISO Sheet Metal</li> <li>ISO Assembly</li> <li>ISO Weldment</li> <li>ISO Draft</li> </ul> </div>	
<p>2</p> 	<ol style="list-style-type: none"> <li>1. Click the <b>Rectangle by Center</b> button.</li> <li>2. Point at the <b>Origin</b> and wait until the  icon appears before clicking.</li> </ol>	
<p>3</p> 	<ol style="list-style-type: none"> <li>3. Click to place the <b>Rectangle</b>.</li> </ol>	

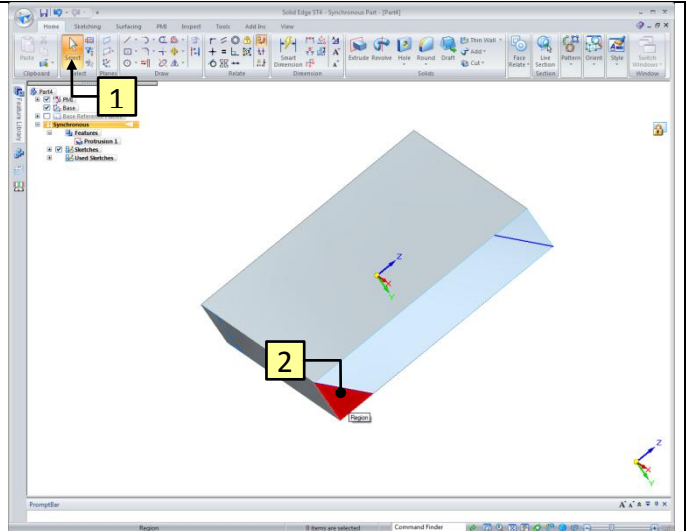
<p>4</p> 	<ol style="list-style-type: none"> <li>1. Click the <b>Select</b> button.</li> <li>2. When you hover over the Region, it will turn red. Click on the Region, as shown.</li> </ol>	
<p>5</p> 	<ol style="list-style-type: none"> <li>3. When you hover over the arrow, it will turn red. Click on the arrow, as shown.</li> <li>4. Click the <b>Extrude – Symmetric</b> button.</li> </ol>	
<p>6</p> 	<ol style="list-style-type: none"> <li>5. Key in the value <b>18</b> and confirm with <b>Enter</b>.</li> </ol>	

<p>7</p>  <p>+</p> 	<ol style="list-style-type: none"> <li>1. Click the <b>Line</b> button.</li> <li>2. Point at the plane and wait until the lock icon appears. Click on the lock icon.</li> </ol>	
<p>8</p> 	<ol style="list-style-type: none"> <li>3. Point at the left end point of the horizontal line and wait until the  icon appears before clicking.</li> <li>4. Point at the horizontal line and wait until the  icon appears before clicking.</li> </ol>	
<p>9</p> 	<ol style="list-style-type: none"> <li>5. Point at the right end point of the horizontal line and wait until the  icon appears before clicking.</li> <li>6. Point at the horizontal line and wait until the  icon appears before clicking.</li> </ol>	

10



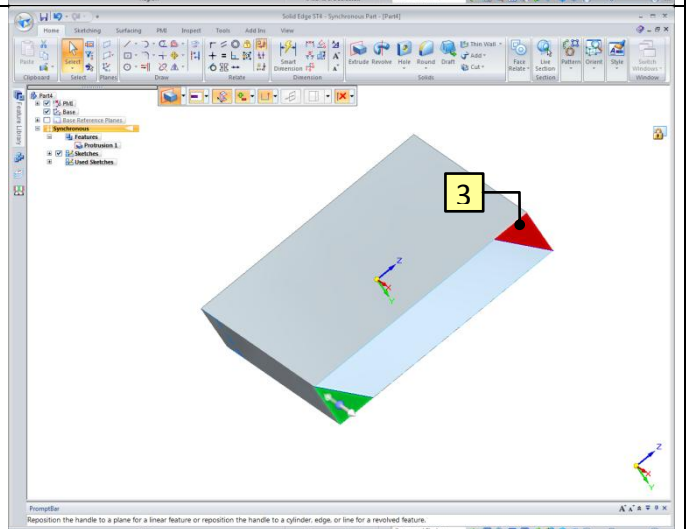
1. Click on the **Select** button.
2. When you hover over the Region, it will turn red. Click on the Region, as shown.



11



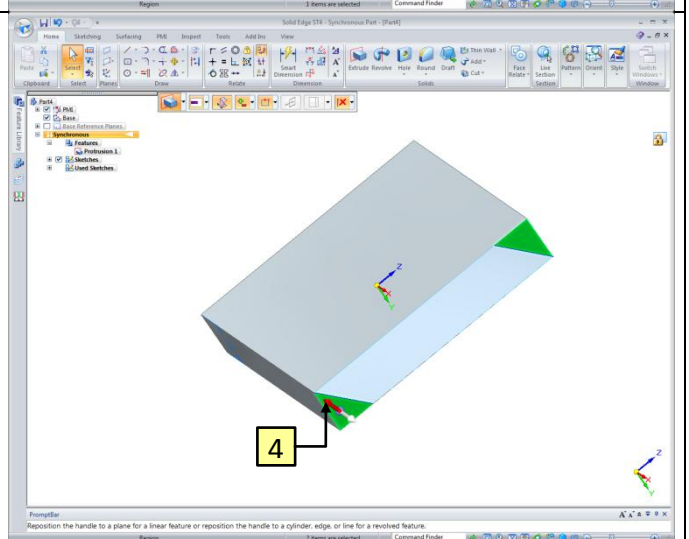
3. Press Ctrl and select the second Region.



12



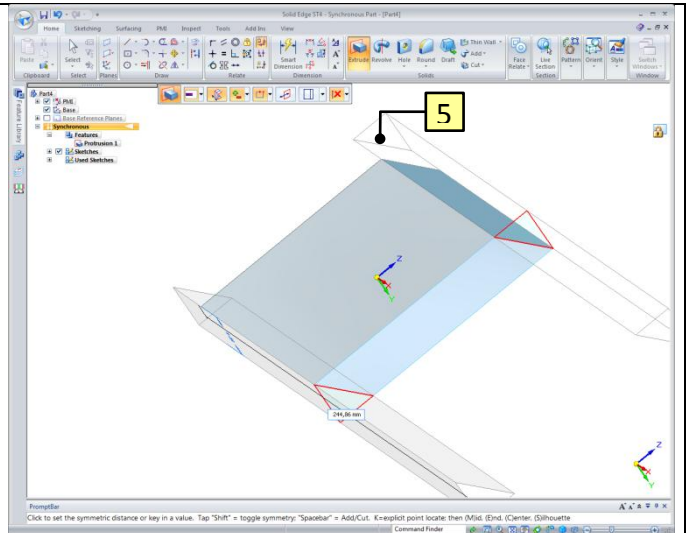
4. When you hover over the arrow, it will turn red. Click on the arrow, as shown.



13



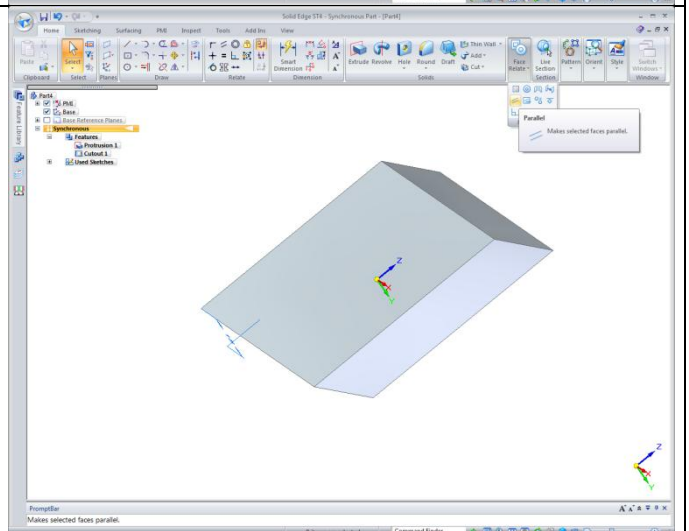
5. Make sure the Section is through the entire material and click.



14



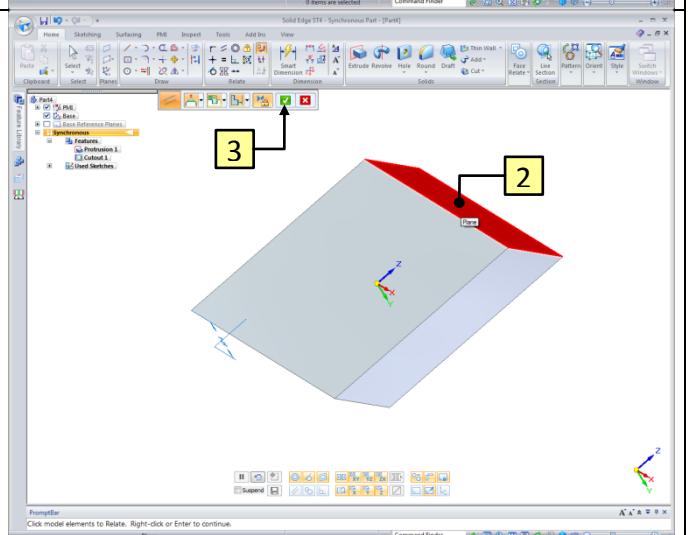
1. Click on the Face Relate **Parallel** button.



15



2. Click on the plane, as shown.
3. Click on the green icon.

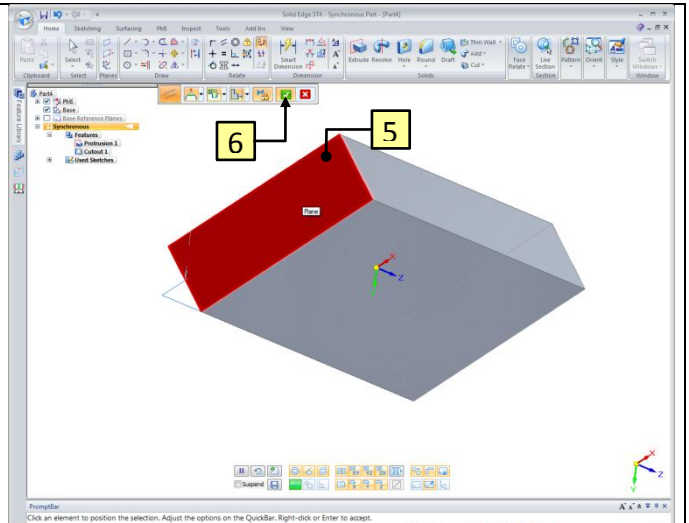




16



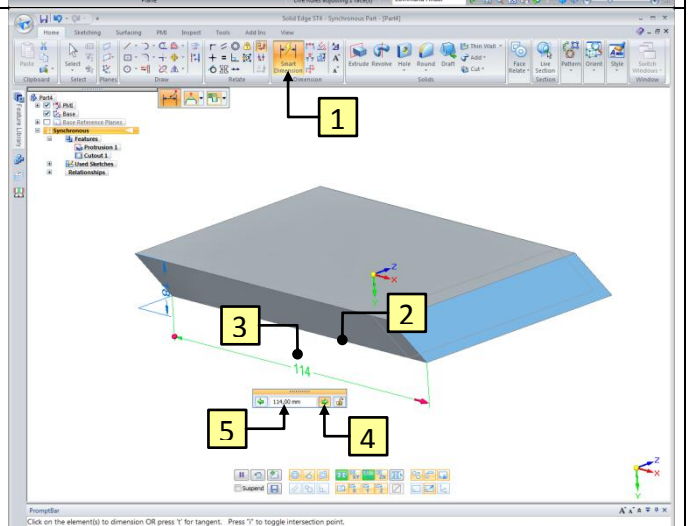
4. Turn the view.
5. Click on the plane.
6. Click on the green icon.



17



1. Click the **Smart Dimension** button.
2. Click on the horizontal line.
3. Click to place the dimension.
4. Click the right green arrow.
5. Key in the value **114** and confirm with **Enter**.

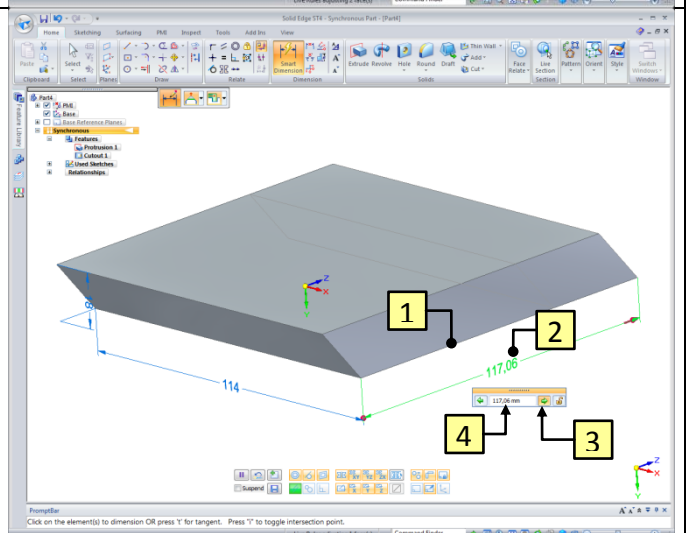


18



If the **Smart Dimension** is still active.

1. Click the right horizontal line.
2. Click to place the dimension.
3. Click on the right green arrow.
4. Key in the value **117,06** and confirm with **Enter**.

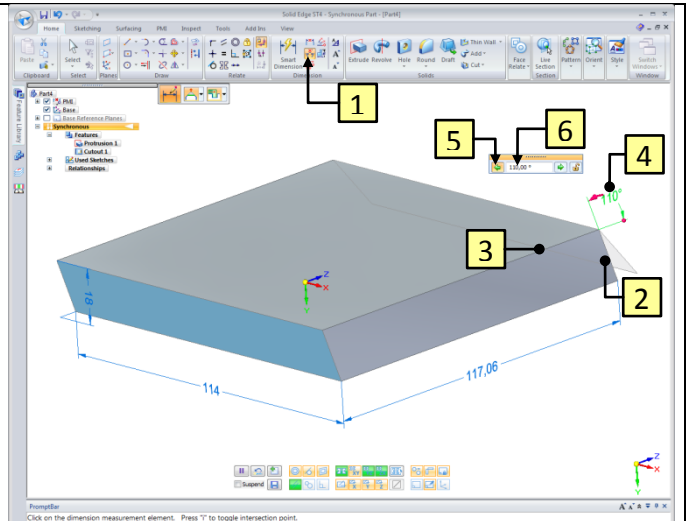




19



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**.

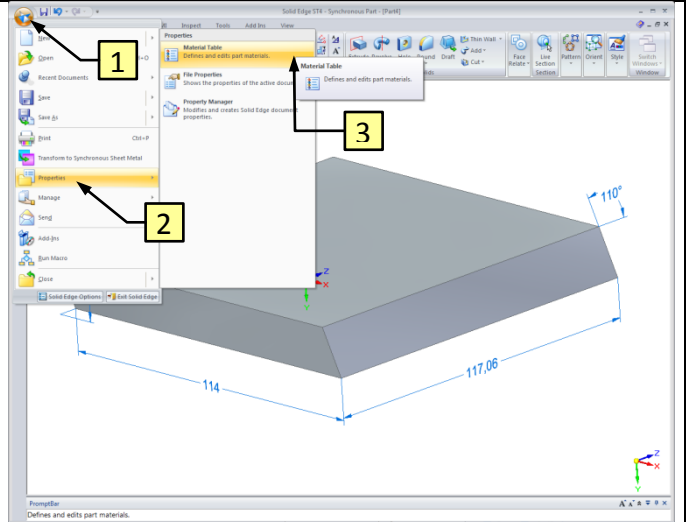


20



Now we set the material property.

1. Click the **Application Button**.
2. Click on **Properties**.
3. Click the **Material Table**.



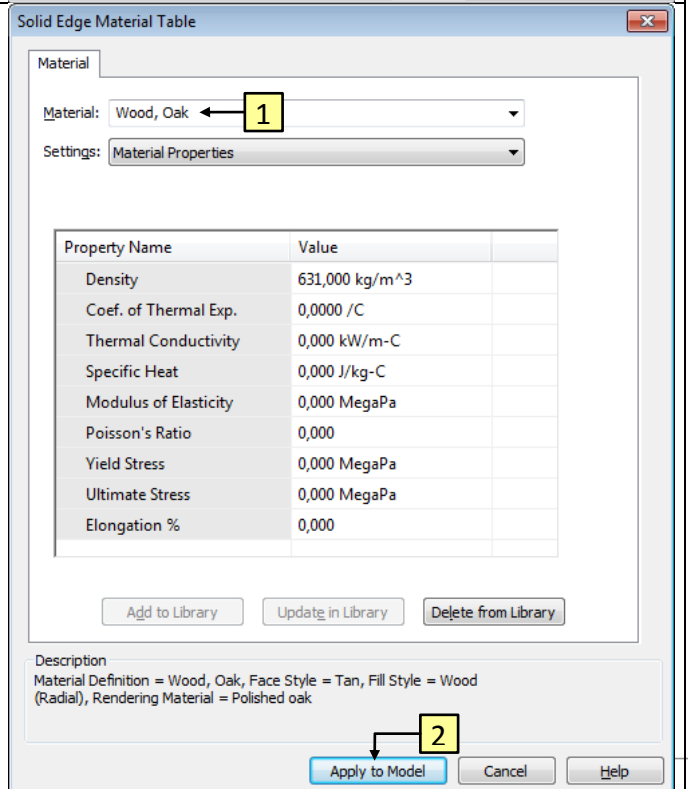
21


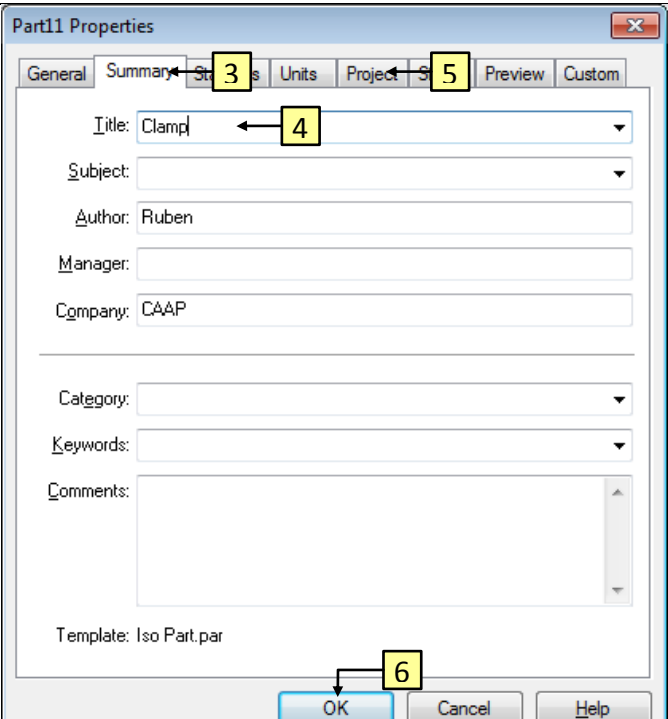



1. Choose the material **Wood, Oak**.
2. Click **Apply to Model** to set the material to the part.

#### Hint:

There are several properties which are connected to a material, like color and density. The density is necessary to determine the weight.



<p>22</p> 	<p>The part is ready. Now it must be saved.</p> <ol style="list-style-type: none"> <li>1. First press <b>Ctrl</b> and <b>i</b> to turn the image to isometric view.</li> <li>2. Click on the floppy icon.</li> <li>3. Go to the <b>Summary</b> tab.</li> <li>4. Type <i>Clamp</i> at Title.</li> <li>5. Go to the <b>Project</b> tab and fill in the following properties: Document Number: <i>1008</i>. Revision Number: <i>A</i>. Project Name: <i>Bird House</i>.</li> <li>6. Click <b>OK</b> to close the screen.</li> </ol> <p><b>Hint:</b> All properties of the part are saved at the <b>File Properties</b>. These properties will be used by making a drawing or part list.</p>	
<p>23</p> 	<ol style="list-style-type: none"> <li>1. Browse to the folder named <i>Bird House</i>.</li> <li>2. Save the document by name <i>Bird House-1008-Clamp-A.par</i>.</li> <li>3. Click the <b>Save</b> button.</li> <li>4. Close the file.</li> </ol> <p><b>Hint:</b> Save all files of one project in the same folder.</p>	