

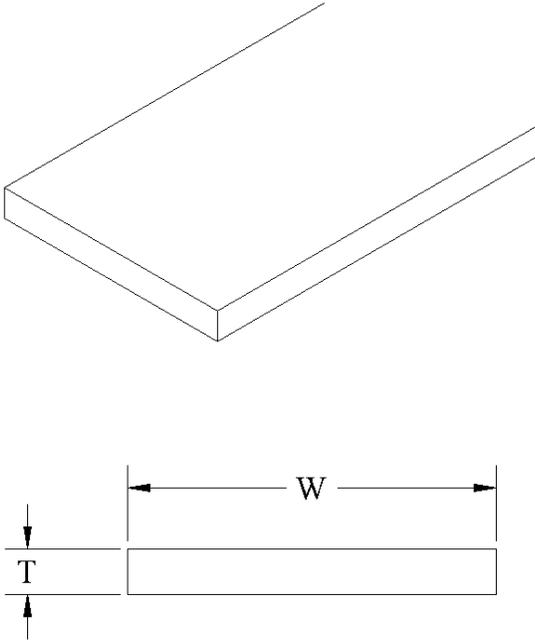
# EML2322L – Design & Manufacturing Laboratory

## Material Sizes Stocked in Lab

The following list contains various material sizes that are usually stocked in lab. **You are not limited to these material sizes**, however, you must submit a purchase order (PO) at least one week before you need the material for manufacturing. If the material is stocked in the lab, submitting a PO the day you require the material is acceptable. See the [material price list](#) for cost information.

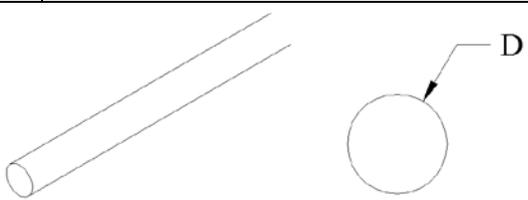
For more material choices visit [McMaster-Carr](#), [MSC](#) or local hardware stores.

<b>Aluminum Rectangular Bar Stock</b>	
<i>Thickness (T)</i>	<i>Width (W)</i>
1/8"	1/2"
	3/4"
	1"
	2"
	3"
	4"
3/16"	1"
	2"
	2-1/2"
	3"
	3-1/2"
	4", 4-1/2"
1/4"	6"
	3/4"
	1"
	2"
	2-1/2"
	3"
	3-1/2"
	4"
1/2"	6"
	8"
	1/2"
3/4"	2"
	4"
1"	3/4"
	3"
1-1/2"	4"
	2"
2"	2"
	2-1/2"

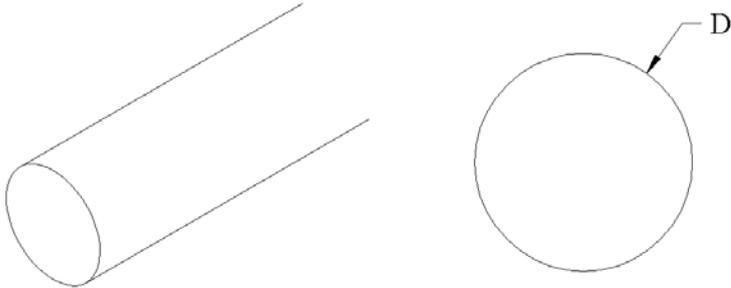


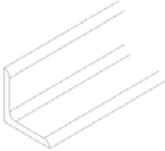
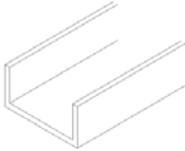
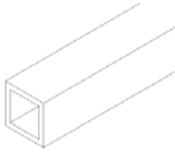
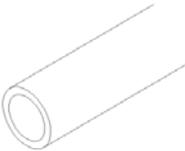
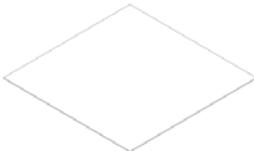
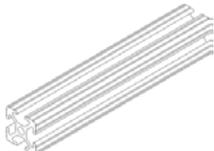
The diagram illustrates the dimensions of an aluminum rectangular bar. It shows a 3D perspective view of the bar and a 2D cross-sectional view. In the 2D view, the thickness is labeled 'T' and the width is labeled 'W'.

<b>Rod</b>	
<i>Material</i>	<i>Size Range (D)</i>
Aluminum	1/8" – 1/2"
Steel	1/8" – 1/2"
Wood	1/4" – 1"
Acetal	1/2" – 2"
Threaded	1/4-20 – 1/2-13



The diagram shows a 3D perspective view of a rod and a 2D circular cross-section. The diameter of the rod is labeled 'D'.

<b>Aluminum Round Bar Stock</b>	
<i>Diameter (D)</i>	
1/2"	
5/8"	
3/4"	
1"	
1-1/8"	
1-1/4"	
1-1/2"	
1-3/4"	
2"	

<b>Miscellaneous</b>	
<i>Description</i>	<i>Shape</i>
Angle	
Channel	
Square Tube	
Round Tube	
Steel Sheetmetal (20GA, 18GA, 16GA)	
Aluminum Sheetmetal (20GA, 18GA, 16GA)	
1" x 1" 80/20 Extrusion	
<i>PVC (Plastic) Pipe</i> ( 1", 2", 3", and 4")	