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 <u>material price list</u> for cost information.

For more material choices visit McMaster-Carr, MSC or local hardware stores.

Thickness (T) Width (W) 1/2" 3/4" 1/8" 1" 2" 3" 4" 1" 2" 2-1/2" 3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 1/4" 3" 3-1/2" 4" 6" 8" 1/2" 1/2" 1/2" 1/2" 1/2" 2" 4" 1-1/2" 2" 2" 2" 2" 2"	Aluminum	Rectangular B
1/8" 1/8" 1/8" 1" 2" 3" 4" 1" 2" 2-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 1/4" 3" 3-1/2" 4" 6" 8" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 2" 3/4" 1" 3" 1" 3" 1" 4" 1-1/2" 2" 2" 2"	Thickness (T)	Width (W)
1/8" 1/8" 1" 2" 3" 4" 1" 2" 2-1/2" 3/16" 3" 3-1/2" 4",4-1/2" 6" 3/4" 1" 2" 2-1/2" 4" 4" 6" 8" 1/2" 4" 4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2" 2" 2" 2"	, ,	1/2"
1/8"		
1/8 2" 3" 4" 1" 2" 2-1/2" 3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 4" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2" 2" 2" 2"	4 (0)	
3" 4" 1" 2" 2-1/2" 3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 1/4" 3" 3-1/2" 4" 6" 8" 1/2" 2" 4" 4" 3/4" 1" 3/4" 1" 3/4" 1" 3/4" 1" 4" 1-1/2" 2" 2"	1/8"	2"
3/16" 3/16" 2" 2-1/2" 3" 3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 4" 6" 8" 1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 4" 1" 3/4" 1" 3/4" 1" 3/4" 1" 3" 3-1/2" 4" 1-1/2" 2" 2" 2"		
1" 2" 2-1/2" 3" 3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 4" 4" 6" 8" 1/2" 1/2" 1/2" 2" 4" 3/4" 3/4" 3/4" 3/4" 1" 3" 4" 1-1/2" 2" 2" 2" 2"		
2" 2-1/2" 3" 3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 1/4" 3" 3-1/2" 4" 6" 8" T 1/2" 1/2" 2" 4" 3/4" 3/4" 3/4" 3/4" 1" 3" 1-1/2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2		
3/16" 3" 3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 4" 4" 4" 6" 8" 1/2" 1/2" 4" 3/4" 1" 3/4" 1" 3/4" 1" 1-1/2" 2" 2" 2"		
3/16" 3" 3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 4" 4" 6" 8" 1/2" 1/2" 1/2" 2" 4" 3/4" 1" 3/4" 1" 3" 4" 1-1/2" 2" 2" 2"		
3-1/2" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 4" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 3/4" 1" 3" 4" 1-1/2" 2" 2" 2" 2"	3/16"	
1/4" 4", 4-1/2" 6" 3/4" 1" 2" 2-1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 1" 3/4" 1" 3" 4" 1-1/2" 2" 2" 2"	3/10	
1/4" 2" 2-1/2" 3" 3-1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2" 2"		
3/4" 1" 2" 2-1/2" 3" 3-1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 3/4" 1" 3" 4" 1-1/2" 2" 2"		6"
1/4" 2" 2-1/2" 3" 3-1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2" 2"		
1/4" 2" 2-1/2" 3" 3-1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2" 2"		1"
1/4" 3" 3-1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2" 2"		
1/4" 3" 3-1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2"		
3-1/2" 4" 6" 8" 1/2" 1/2" 2" 4" 3/4" 1" 3" 4" 1-1/2" 2" 2" 2"	1/4"	3"
4"	1/7	
6" 8" 1/2" 1/2" 2" 4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2"		
8"		
1/2" 1/2" 2" 4" 3/4" 3/4" 3" 1" 4" 1-1/2" 2" 2"		
1/2" 2" 4" 3/4" 3/4" 1" 4" 1-1/2" 2" 2" 2"		
3/4" 3/4" 1" 3" 4" 4" 1-1/2" 2" 2" 2"	1/2"	2"
3/4" 3/4" 3" 4" 1-1/2" 2" 2"	1/2	
1" 3" 4" 1-1/2" 2" 2" 2"	3/4"	
1" 4" 1-1/2" 2" 2" 2"		
1-1/2" 2" 2"	1"	
2"	1-1/2"	
	2"	2-1/2"

	Rod	
Material	Size Range (D)	
Aluminum	1/8" – 1/2"	D
Steel	1/8" – 1/2"	
Wood	1/4" – 1"	
Acetal	1/2" – 2"	
Threaded	¹ / ₄ -20 – ¹ / ₂ -13	
	, : = = , 2 10	I

Aluminu	um Round Bar Stock
Diameter (D)	
1/2"	_ D
5/8"	
3/4"	
1"	
1-1/8"	
1-1/4"	
1-1/2"	
1-3/4"	
2"	

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