



THREE D METALS

COPPER BAR

COPPER RECTANGLES CDA 102/110/116

ASTM B – 152/B-187

12' Standard Lengths

Square Edge, Rounded Edge, Radius Edge, Full Rounded Edge

Thickness In	Width In	Lbs. Per Foot	Thickness In	Width In	Lbs. Per Foot	Thickness In	Width In	Lbs. Per Foot
3/32	1	0.362	3/16	2 1/2	1.817	5/16	6	7.26
1/8	1/4	0.122	3/16	3	2.18	3/8	1/2	0.727
1/8	1/2	0.242	3/16	4	2.90	3/8	3/4	1.09
1/8	5/8	0.303	1/4	1/2	0.485	3/8	1	1.453
1/8	3/4	0.363	1/4	5/8	0.606	3/8	1 1/4	1.817
1/8	1	0.484	1/4	3/4	0.727	3/8	1 1/2	2.18
1/8	1 1/4	0.606	1/4	1	0.969	3/8	2	2.907
1/8	1 1/2	0.727	1/4	1 1/4	1.211	3/8	3	4.36
1/8	2	0.969	1/4	1 1/2	1.453	3/8	4	5.814
1/8	3	1.45	1/4	1 3/4	1.69	3/8	5	7.27
1/8	3 1/4	1.57	1/4	2	1.938	3/8	6	8.72
1/8	3 1/2	1.70	1/4	2 1/4	1.99	1/2	3/4	1.45
3/16	1/2	0.363	1/4	2 1/2	2.4	1/2	1	1.938
3/16	5/8	0.454	1/4	3	2.907	1/2	1 1/4	2.42
3/16	3/4	0.545	1/4	4	3.876	1/2	1 1/2	2.907
3/16	1	0.727	1/4	4 1/2	4.36	1/2	2	3.876
3/16	1 1/4	0.908	1/4	6	5.814	1/2	2 1/2	4.845
3/16	1 3/8	1.00	5/16	1	1.21	1/2	3	5.814
3/16	1 1/2	1.09	5/16	2	2.42	1/2	4	7.752
3/16	1 3/4	1.27	5/16	3	3.63	1/2	5	9.69
3/16	2	1.453	5/16	4	4.84	1/2	6	11.628

Thickness In	Width In	Lbs. Per Foot	Thickness In	Width In	Lbs. Per Foot	Thickness In	Width In	Lbs. Per Foot
1/2	8	15.504	3/4	1	2.907	1	2 1/2	9.70
5/8	1	2.42	3/4	1 1/4	3.634	1	3	11.6
5/8	1 1/2	3.63	3/4	1 1/2	4.36	1	4	15.5
5/8	2	4.845	3/4	2	5.814	1	5	19.42
5/8	2 1/2	6.06	3/4	3	8.721	1	6	23.3
5/8	3	7.27	3/4	4	11.628	1 1/2	3	11.6
5/8	4	9.69	3/4	6	17.442	2	2	23.2
5/8	5	12.11	3/4	8	23.256	2	4	31.0
5/8	6	14.54	1	2	7.75			

Available Finishes

Bare | Silver | Tin-Plated

- Custom fabricated busbar
- Machined to print
- Trapezoids, special shapes and custom extrusions are available
- Metric sizes available

Ampacities and Mechanical Properties of Rectangular Copper Busbars

Required Ampacity, *(range) Amp	Busbar Dimensions in Inches**			Required Ampacity, *(range) Amp	Busbar Dimensions in Inches**		
	30°C Rise	50°C Rise	65°C Rise		30°C Rise	50°C Rise	65°C Rise
100 (100-149)	1/16 x 1/2 1/16 x 3/4	1/16 x 1/2	—	900 (900-999)	1/8 x 4 3/16 x 3 1/2 1/4 x 3	1/8 x 3 3/16 x 2 1/2 1/4 x 2 3/8 x 1 1/2	1/8 x 2 1/2 1/2 x 1
150 (150-199)	1/16 x 1 1/8 x 1/2 3/16 x 1/2	1/16 x 3/4	1/16 x 1/2	1000 (1000-1249)	3/16 x 4 1/4 x 3 1/2 3/8 x 2 1/2 3/8 x 3 1/2 x 3 1/2 x 2 1/2	1/8 x 4 3/16 x 3 1/4 x 2 1/2 3/8 x 2	1/8 x 3 3/16 x 2 1/2 1/4 x 2 3/8 x 1 1/2
200 (200-249)	1/8 x 3/4 1/4 x 1/2	1/8 x 1/2	1/16 x 3/4 1/8 x 1/2	1250 (1250-1499)	1/4 x 4 3/8 x 3 1/2 1/2 x 3	3/16 x 3 1/2 3/16 x 4 1/4 x 3 3/8 x 2 1/2 1/2 x 2	1/8 x 4 3/16 x 3 1/4 x 2 1/2 3/8 x 2
250 (250-299)	1/16 x 1/2 1/8 x 1 3/16 x 3/4	1/16 x 1 1/8 x 3/4 3/16 x 1/2	1/16 x 1	1500 (1500-1749)	1/4 x 5 3/8 x 4 1/2 x 3 1/2 1/2 x 4	1/4 x 3 1/2 1/4 x 4 3/8 x 3 1/2 x 2 1/2	3/16 x 3 1/2 3/16 x 4 1/4 x 3 3/8 x 2 1/2 1/2 x 2
300 (300-349)	1/16 x 2 3/16 x 1 1/4 x 3/4	1/4 x 1/2	1/8 x 3/4 3/16 x 1/2	1750 (1750-1999)	1/4 x 6 3/8 x 5	3/8 x 3 1/2 1/2 x 3	1/4 x 3 1/2 1/4 x 4 3/8 x 3 1/2 x 2 1/2
350 (350-399)	1/8 x 1 1/2	1/16 x 1 1/2 1/8 x 1 3/16 x 3/4	1/4 x 1/2	2000 (2000-2499)	1/4 x 8 3/8 x 6 1/2 x 5 1/2 x 6 3/4 x 4 3/4 x 5	1/4 x 6 3/8 x 5 1/2 x 3 1/2	1/4 x 5 3/8 x 4 1/2 x 4
400 (400-449)	1/4 x 3/4 1/4 x 1 3/8 x 3/4	1/4 x 3/4	1/16 x 1 1/2 1/8 x 1 1/4 x 1/2 3/16 x 3/4	2500 (2500-2999)	1/4 x 10 3/8 x 8 3/4 x 6	3/8 x 6 1/2 x 5 3/4 x 4	1/4 x 6 3/8 x 5 1/2 x 4
450 (450-499)	1/8 x 2 3/16 x 1/2	1/16 x 2 3/16 x 1	1/4 x 3/4	3000 (3000-3499)	1/4 x 12 3/8 x 10 1/2 x 8	1/4 x 8 1/2 x 6 3/4 x 5	1/4 x 8 3/8 x 6 1/2 x 5 3/4 x 4
500 (500-599)	1/4 x 1 1/2 3/8 x 1	1/8 x 1 1/2 1/4 x 1 3/8 x 3/4	1/16 x 2 1/8 x 1 1/2 3/16 x 1	3500 (3500-3999)	3/8 x 12 1/2 x 10 3/4 x 8	1/4 x 10 3/8 x 8 3/4 x 6	1/2 x 6 3/4 x 5
600 (600-699)	1/8 x 2 1/2 3/16 x 2 1/2 x 1	1/8 x 2 3/16 x 1 1/2 1/4 x 1	1/4 x 1 3/8 x 3/4	4000 (4000-4499)	1/2 x 12 3/4 x 10	1/4 x 12 3/8 x 10 1/2 x 8	1/4 x 10 3/8 x 8 3/4 x 6
700 (700-799)	1/8 x 3 3/16 x 2 1/2 1/4 x 2 3/8 x 1/2	1/4 x 1 1/2	1/8 x 2 3/16 x 1 1/2 3/8 x 1	4500 (4500-4999)	3/4 x 12	1/2 x 10 3/4 x 8	1/4 x 12 3/8 x 10 1/2 x 8
800 (800-899)	1/8 x 3 1/2 3/16 x 3 1/4 x 2 1/2 3/8 x 2	1/8 x 2 1/2 3/16 x 2 1/2 x 1	1/4 x 1 1/2	5000 (5000-5999)	—	3/8 x 12 1/2 x 12 3/4 x 10	3/8 x 12 1/2 x 10 3/4 x 8

* For 60 Hz current.

** This table gives busbar cross sections which are the most likely to be large enough for the ampacities noted within each range. By knowing the required ampacity, you may determine possible busbar dimensions from this table by verifying that the size selected has the necessary ampacity.



Contact Us for a Quote!

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Or, use our easy online calculator:

threedmetals.com/metal-calculator



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