

Copper**Aluminum**

	width	thickness	sq. inches	ampacity		width	thickness	sq. inches	ampacity
1	1/4	1/2			26	1/4	1/2		
2	1/4	3/4			27	1/2	3/4		
3	1/4	1			28	1/4	1		
4	1/4	1 1/4			29	1/4	1 1/4		
5	1/4	1 1/2			30	1/4	1 1/2		
6	1/4	2			31	1/4	2		
7	1/2	1/2			32	1/2	1/2		
8	1/2	3/4			33	1/2	3/4		
9	1/2	1			34	1/2	1		
10	1/2	1 1/4			35	1/2	1 1/4		
11	1/2	1 1/2			36	1/2	1 1/2		
12	1/2	2			37	1/2	2		
13	3/4	3/4			38	3/4	3/4		
14	3/4	1			39	3/4	1		
15	3/4	1 1/4			40	3/4	1 1/4		
16	3/4	1 1/2			41	3/4	1 1/2		
17	3/4	2			42	3/4	2		
18	1	1			43	1	1		
19	1	1 1/4			44	1	1 1/4		
20	1	1 1/2			45	1	1 1/2		
21	1	1 3/4			46	1	1 3/4		
22	1	2			47	1	2		
23	1 1/4	1 1/4			48	1 1/4	1 1/4		
24	1 1/4	1 1/2			49	1 1/4	1 1/2		
25	1 1/4	2			50	1 1/4	2		

The ampacity of a copper bus bar is 1000 amps per square inch. Easy to remember. The ampacity of an aluminum bus bar is 700 amps per square inch.

So square inches times 1000 equals the copper ampacity. And square inches times 700 equals the aluminum ampacity.

See NEC® 366.7A.