

CD Stud Load Strengths

Stud Material	Stud Size	Maximum Fastening Torque (Inch Lbs.)*	Ultimate Tensile Load (Lbs.)	Maximum Shear Load (Lbs.)
Low-Carbon, Copper-Flashed Steel	6-32	6	500	375
	8-32	12	765	575
	10-24	14	960	720
	1/4-20	43	1750	1300
	5/16-18	72	2900	2200
	3/8-16	106	4300	3250
Stainless Steel	6-32	10	790	590
	8-32	20	1260	940
	10-24	23	1530	1150
	1/4-20	75	2880	2160
	5/16-18	126	3750	5350
	3/8-16	106	4850	7150
Aluminum Alloy 1100	6-32	2.5	200	125
	8-32	5	295	185
	10-24	6.5	380	235
	1/4-20	21.5	670	415
	5/16-18	36	1125	695
	3/8-16	53	1660	1000
Aluminum Alloy 6061	6-32	6.5	350	160
	8-32	13	560	229
	10-24	19	670	310
	1/4-20	40	1240	679
	5/16-18	70.5	2025	1210
	3/8-16	100	2985	1750
Brass 70-30 (260) 65-35 (268)	6-32	8	600	390
	8-32	16	860	560
	10-24	18.5	1040	680
	1/4-20	61	1950	1275
	5/16-18	102	3280	2140
	3/8-16	150	4800	3160

*These values should develop fastener tension to slightly less than yield point.



PERRY STUD WELDING

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