

SHEET METAL SCREW DATA

Table A4.3-1; Allowable Seismic and Wind Loads for Sheet Metal Screws vs. Sheet Metal Gage

Screw Size (Nom. Dia.)	#6 (0.138")		#8 (0.164")		#10 (0.190")		#12 (0.216")	
	Allow. Shear (ASD) (lbs)	Allow. Pullout (ASD) (lbs)	Allow. Shear (ASD) (lbs)	Allow. Pullout (ASD) (lbs)	Allow. Shear (ASD) (lbs)	Allow. Pullout (ASD) (lbs)	Allow. Shear (ASD) (lbs)	Allow. Pullout (ASD) (lbs)
28	80	44	88	52	95	61	100	69
22	148	67	161	79	175	92	185	104
20	201	81	219	96	236	112	251	127
18	299	105	325	125	351	145	373	165
16	420	133	459	157	493	183	525	208
14	531	167	632	199	697	231	743	261
12	757	239	900	284	1,044	328	1,187	373

Notes:

1. Minimum screw spacing is three (3) times the nominal screw diameter.
2. These values are based on sheet metal strength of 33,000 psi yield and 45,000 psi tensile.
3. These values have been increased by 33% for seismic and wind applications which produces a Factor of Safety equal to 2.25:1.
4. Use of these values requires a minimum penetration of three (3) clear exposed complete threads through the joined materials.
5. Screw strength must be verified by the supplier of the fasteners.
6. Table data is taken from, *SSMA – Product Technical Information ICBO ER-4943P*; Steel Stud Manufacturer's Association, 2000; Pp 5 & 48.

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