

Trapeze		Angles												Channels			
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Length, in.		1" x 1" x 16 ga	1" x 1" x 1/8"	1-1/2" x 1-1/2" x 16ga	1-1/2" x 1-1/2" x 1/8"	1-1/2" x 1-1/2" x 3/16"	1-1/2" x 1-1/2" x 1/4"	2" x 2" x 1/8"	2" x 2" x 3/16"	2" x 2" x 1/4"	2-1/2" x 2-1/2" x 3/16"	2-1/2" x 2-1/2" x 1/4"	3" x 3" x 1/4"	4" x 4" x 1/4"	3" x 4.1 lb/ft	3" x 6.0 lb/ft	4" x 5.4 lb/ft
18	80	150	180	350	510	650	650	940	1230	1500	1960	-	-	-	-	-	
24	75	150	180	350	510	650	650	940	1230	1500	1960	-	-	-	-	-	
30	70	150	180	350	510	650	650	940	1230	1500	1960	-	-	-	-	-	
36	60	130	160	340	500	620	620	920	1200	1480	1940	-	-	-	-	-	
42	40	110	140	320	480	610	610	900	1190	1470	1930	-	-	-	-	-	
48	-	80	110	290	450	580	580	870	1160	1440	1900	-	-	-	-	-	
54	-	-	-	250	400	540	540	840	1120	1400	1860	-	-	-	-	-	
60	-	-	-	190	350	490	490	780	1060	1340	1800	-	-	-	-	-	
66	-	-	-	100	270	400	400	700	980	1260	1720	-	-	-	-	-	
72	-	-	-	-	190	320	320	620	900	1180	1640	-	-	-	-	-	
78	-	-	-	-	-	210	210	500	790	1070	1530	-	-	-	-	-	
84	-	-	-	-	-	-	-	380	660	940	1400	2310	4680	4650	5980	9080	
96	-	-	-	-	-	-	-	-	320	600	1060	1970	4340	3870	4950	8740	
108	-	-	-	-	-	-	-	-	-	-	-	2510	7240	5760	7780	15650	
120	-	-	-	-	-	-	-	-	-	-	-	1220	5950	4120	5930	13200	
132	-	-	-	-	-	-	-	-	-	-	-	-	4350	2540	3920	10820	
144	-	-	-	-	-	-	-	-	-	-	-	-	2420	-	2000	8330	
Section Properties	I _x	0.012	0.022	0.041	0.078	0.110	0.139	0.190	0.272	0.348	0.547	0.703	1.240	3.040	1.660	2.070	3.850
	Z	0.016	0.031	0.037	0.072	0.104	0.13	0.130	0.190	0.247	0.303	0.394	0.577	1.050	1.100	1.380	1.930
	A	0.120	0.234	0.180	0.359	0.527	0.688	0.484	0.715	0.938	0.902	1.190	1.440	1.940	1.210	1.760	1.590
	lb/ft	0.440	0.800	0.660	1.230	1.800	2.340	1.650	2.440	3.190	3.070	4.100	4.900	6.600	4.100	6.000	5.400

Table 5-3 Allowable Loads in Pounds for Trapeze Bars

NOTES:

- It is assumed that steel with a yield strength of 30,000 psi or greater is used.
- Loads above assume that a hanger rod is 6 in. max distance from the duct side for lengths of 96 in. or less, and 3 in. for greater lengths.
- Framing Struts, see Table 5-4 and other steel shapes having equal or greater (I_x and Z) properties may be used in place of listed shapes. I_x is in in.⁴, Z is in in.³, and A is in in.²
- See Fig. 5-6 for load calculation method and Table 5-1 for rod and strap load limits.