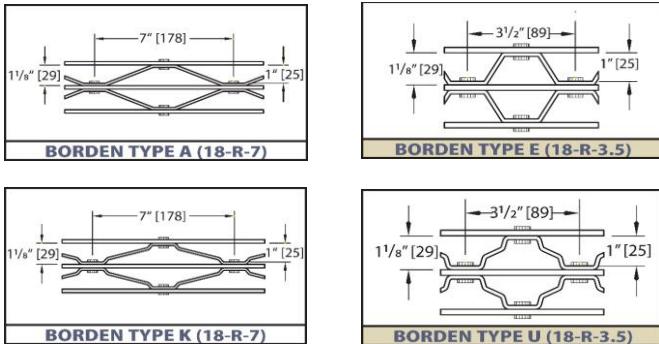




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Riveted Grating  
Aluminum

### LOAD TABLE



Size No.	Bearing Bar Size	Weight lbs/sq.ft.	Moment of Inertia	Section Modulus	Maximum span recommended for 1/4" deflection under uniform load of 100 psf. (normal pedestrian traffic)												
					Span in Inches												
					24	30	36	42	48	54	60	66	72	78	84	96	108
1	3/4"x1/8"	2.14	0.0422	0.1125	U 225	144	100	73	56	44	36	Table compiled as per ANSI/NAAMM MBG 534-14	F - 12,000 psi E - 10,000,000 psi Alloys 6061 T6 and 6063 T6	U - Safe Uniform Load (lbs./sq.ft.)	C - Safe Conc. load (lbs./ft. width)	D - Deflection in inches	
		2.27			Du 0.19	0.3	0.43	0.59	0.77	0.97	1.2						
	3/4"x3/16"	2.41			C 225	180	150	129	113	100	90						
		2.68			Dc 0.15	0.24	0.35	0.47	0.61	0.78	0.96						
2	3/4"x3/16"	2.41	0.0603	0.1607	U 321	206	143	105	80	63	51						
		2.68			Du 0.19	0.3	0.43	0.59	0.77	0.97	1.2						
	1"x1/8"	2.49			C 321	257	214	184	161	143	129						
		2.62			Dc 0.15	0.24	0.35	0.47	0.61	0.78	0.96						
3	1"x3/16"	2.49	0.1000	0.2000	U 400	256	178	131	100	79	64	53	44	38	U - Safe Uniform Load (lbs./sq.ft.)	C - Safe Conc. load (lbs./ft. width)	D - Deflection in inches
		2.62			Du 0.14	0.23	0.32	0.44	0.58	0.73	0.9	1.09	1.3	1.52			
	1 1/4"x1/8"	2.83			C 400	320	267	229	200	178	160	145	133	123			
		2.96			Dc 0.12	0.18	0.26	0.35	0.46	0.58	0.72	0.87	1.04	1.22	1.41	1.84	2.33
4	1 1/4"x3/16"	2.90	0.1429	0.2857	U 571	366	254	187	143	113	91	76	63	54	47	36	28
		3.17			Du 0.14	0.23	0.32	0.44	0.58	0.73	0.9	1.09	1.3	1.52	1.76	2.3	2.92
	1 1/4"x1/8"	2.83			C 571	457	381	327	286	254	229	208	190	176	163	143	127
		2.96			Dc 0.12	0.18	0.26	0.35	0.46	0.58	0.72	0.87	1.04	1.22	1.41	1.84	2.33
5	1 1/4"x3/16"	3.40	0.1953	0.3125	U 625	400	278	204	156	123	100	83	69	59	51	39	31
		3.67			Du 0.12	0.18	0.26	0.35	0.46	0.58	0.72	0.87	1.04	1.22	1.41	1.84	2.33
	1 1/4"x3/16"	3.40			C 625	500	417	357	313	278	250	227	208	192	179	156	139
		3.67			Dc 0.09	0.14	0.21	0.28	0.37	0.47	0.58	0.7	0.83	0.97	1.13	1.47	1.87
6	1 1/4"x3/16"	3.40	0.2790	0.4464	U 893	571	397	292	223	176	143	118	99	85	73	56	44
		3.67			Du 0.12	0.18	0.26	0.35	0.46	0.58	0.72	0.87	1.04	1.22	1.41	1.84	2.33
	1 1/2"x1/8"	3.17			C 893	714	595	510	446	397	357	325	298	275	255	223	198
		3.30			Dc 0.09	0.14	0.21	0.28	0.37	0.47	0.58	0.7	0.83	0.97	1.13	1.47	1.87
7	1 1/2"x3/16"	3.17	0.3375	0.4500	U 900	576	400	294	225	178	144	119	100	85	73	56	44
		3.30			Du 0.1	0.15	0.22	0.29	0.38	0.49	0.6	0.73	0.86	1.01	1.18	1.54	1.94
	1 1/2"x3/16"	3.89			C 900	720	600	514	450	400	360	327	300	277	257	225	200
		4.16			Dc 0.08	0.12	0.17	0.24	0.31	0.39	0.48	0.58	0.69	0.81	0.94	1.23	1.56
8	1 1/2"x3/16"	3.89	0.4821	0.6429	U 1286	823	571	420	321	254	206	170	143	122	105	80	63
		4.16			Du 0.1	0.15	0.22	0.29	0.38	0.49	0.6	0.73	0.86	1.01	1.18	1.54	1.94
	1 3/4"x3/16"	4.38			C 1286	1029	857	735	643	571	514	468	429	396	367	321	286
		4.65			Dc 0.08	0.12	0.17	0.24	0.31	0.39	0.48	0.58	0.69	0.81	0.94	1.23	1.56
9	2"x3/16"	5.21	0.7656	0.8750	U 1750	1120	778	571	438	346	280	231	194	166	143	109	86
		5.55			Du 0.08	0.13	0.19	0.25	0.33	0.42	0.51	0.62	0.74	0.87	1.01	1.32	1.67
	2 1/4"x3/16"	5.70			C 1750	1400	1167	1000	875	778	700	636	583	538	500	438	389
		6.04			Dc 0.07	0.1	0.15	0.2	0.26	0.33	0.41	0.5	0.59	0.7	0.81	1.05	1.33
10	2 1/2"x3/16"	6.19	1.1429	1.1429	U 2286	1463	1016	746	571	451	366	302	254	216	187	143	113
		6.53			Du 0.07	0.11	0.16	0.22	0.29	0.36	0.45	0.54	0.65	0.76	0.88	1.15	1.46
	2 1/4"x3/16"	5.70			C 2286	1829	1524	1306	1143	1016	914	831	762	703	653	571	508
		6.04			Dc 0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.44	0.52	0.61	0.71	0.92	1.17
11	2 1/2"x3/16"	5.70	1.6272	1.4464	U 2893	1851	1286	945	723	571	463	383	321	274	236	181	143
		6.04			Du 0.06	0.1	0.14	0.2	0.26	0.32	0.4	0.48	0.58	0.68	0.78	1.02	1.3
	2 1/2"x3/16"	5.70			C 2893	2314	1929	1653	1446	1286	1157	1052	964	890	827	723	643
		6.04			Dc 0.05	0.08	0.12	0.16	0.2	0.26	0.32	0.39	0.46	0.54	0.63	0.82	1.04
12	2 1/2"x3/16"	6.19	2.2321	1.7857	U 3571	2286	1587	1166	893	705	571	472	397	338	292	223	176
		6.53			Du 0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.44	0.52	0.61	0.71	0.92	1.17
	2 1/2"x3/16"	5.70			C 3571	2857	2381	2041	1786	1587	1429	1299	1190	1099	1020	893	794
		6.04			Dc 0.05	0.07	0.1	0.14	0.18	0.23	0.29	0.35	0.41	0.49	0.56	0.74	0.93

All loads and deflections are based on gross sections and nominal sizes of bearing bars. The values listed are for design selection only and are not intended to be "absolute".

Actual load capacity will be affected slightly by variations which can be expected due to material and manufacturing tolerances.

1/4" is considered the maximum deflection which is consistent with pedestrian comfort, but may be exceeded for other application at the discretion of the Engineer.

When serrated gratings are specified, increase the depth of the grating selected from the table by 1/4" to allow for the serrations.

PANEL WIDTHS (inches)													
# Bars	2	3	4	5	6	7	8	9	10	11	12	13	
3/16" Bars	1 1/2	2 13/16	4 1/8	5 7/16	6 3/4	8 1/16	9 3/8	10 11/16	12	13 5/16	14 5/8	15 15/16	
1/8" Bars	1 3/8	2 5/8	3 7/8	5 1/8	6 3/8	7 5/8	8 7/8	10 1/8	11 3/8	12 5/8	13 7/8	15 1/8	
# Bars	14	15	16	17	18	19	20	21	22	23	24	25	
3/16" Bars	17 1/4	18 9/16	19 7/8	21 3/16	22 1/2	23 13/16	25 1/8	26 7/16	27 3/4	29 1/16	30 3/8	31 11/16	
1/8" Bars	16 3/8	17 5/8	18 7/8	20 1/8	21 3/8	22 5/8	23 7/8	25 1/8	26 3/8	27 5/8	28 7/8	30 1/8	
# Bars	26	27	28	29									
3/16" Bars	33	34 5/16	35 5/8	36 15/16									
1/8" Bars	31 3/8	32 5/8	33 7/8	35 1/8									