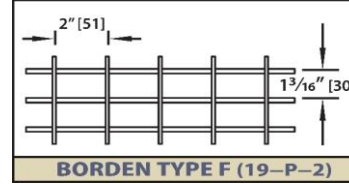
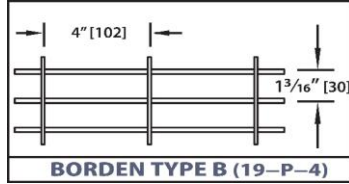




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**Pressure Locked Grating
Aluminum**

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"	1.39	0.0444	0.1184	32	U	237	152	105	77	59	47	38	<p><i>Table compiled as per ANSI/NAAMM MBG 534-14</i> F - 12,000 psi E - 10,000,000 psi Alloys 6061 T6 and 6063 T6</p> <p>U - Safe Uniform Load (lbs./sq.ft.) C - Safe Conc. load (lbs./ft. width) D - Deflection in inches</p>												
						Du	0.19	0.3	0.43	0.59	0.77	0.97	1.2													
		C	237	189		158	135	118	105	95																
		Dc	0.15	0.24		0.35	0.47	0.61	0.78	0.96																
2	3/4"x3/16"	2.00	0.0666	0.1776	35	U	355	227	158	116	89	70	57													
						Du	0.19	0.3	0.43	0.59	0.77	0.97	1.2													
		C	355	284		237	203	178	158	142																
		Dc	0.15	0.24		0.35	0.47	0.61	0.78	0.96																
3	1"x1/8"	1.81	0.1053	0.2105	39	U	421	269	187	137	105	83	67											56	47	40
						Du	0.14	0.23	0.32	0.44	0.58	0.73	0.9											1.09	1.3	1.52
		C	421	337		281	241	211	187	168	153	140	130													
		Dc	0.12	0.18		0.26	0.35	0.46	0.58	0.72	0.87	1.04	1.22													
4	1"x3/16"	2.55	0.1579	0.3158	44	U	632	404	281	206	158	125	101	84	70	60	52	39	31							
						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							
		C	632	505		421	361	316	281	253	230	211	194	180	158	140										
		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"x1/8"	2.19	0.2056	0.3289	47	U	658	421	292	215	164	130	105	87	73	62	54	41	32							
						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							
		C	658	526		439	376	329	292	263	239	219	202	188	164	146										
		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"	3.11	0.3084	0.4934	52	U	987	632	439	322	247	195	158	130	110	93	81	62	49							
						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							
		C	987	789		658	564	493	439	395	359	329	304	282	247	219										
		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"x1/8"	2.67	0.3553	0.4737	53	U	947	606	421	309	237	187	152	125	105	90	77	59	47							
						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							
		C	947	758		632	541	474	421	379	344	316	291	271	237	211										
		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"	3.78	0.5329	0.7105	59	U	1421	909	632	464	355	281	227	188	158	135	116	89	70							
						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							
		C	1421	1137		947	812	711	632	568	517	474	437	406	355	316										
		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	1 3/4"x3/16"	4.34	0.8462	0.9671	66	U	1934	1238	860	632	484	382	309	256	215	183	158	121	96							
						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							
		C	1934	1547		1289	1105	967	860	774	703	645	595	553	484	430										
		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"x3/16"	4.89	1.2632	1.2632	73	U	2526	1617	1123	825	632	499	404	334	281	239	206	158	125							
						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							
		C	2526	2021		1684	1444	1263	1123	1011	919	842	777	722	632	561										
		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 1/4"x3/16"	5.45	1.7985	1.5987	80	U	3197	2046	1421	1044	799	632	512	423	355	303	261	200	158							
						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							
		C	3197	2558		2132	1827	1599	1421	1279	1163	1066	984	914	799	711										
		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"	6.01	2.4671	1.9737	87	U	3947	2526	1754	1289	987	780	632	522	439	374	322	247	195							
						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							
		C	3947	3158		2632	2256	1974	1754	1579	1435	1316	1215	1128	987	877										
		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 3/8	2 9/16	3 3/4	4 15/16	6 1/8	7 5/16	8 1/2	9 11/16	10 7/8	12 1/16	13 1/4	14 7/16	
1/8" Bars	1 5/16	2 1/2	3 11/16	4 7/8	6 1/16	7 1/4	8 7/16	9 5/8	10 13/16	12	13 3/16	14 3/8	
# Bars	14	15	16	17	18	19	20	21	22	23	24	25	
3/16" Bars	15 5/8	16 13/16	18	19 3/16	20 3/8	21 9/16	22 3/4	23 15/16	25 1/8	26 5/16	27 1/2	28 11/16	
1/8" Bars	15 9/16	16 3/4	17 15/16	19 1/8	20 5/16	21 1/2	22 11/16	23 7/8	25 1/16	26 1/4	27 7/16	28 5/8	
# Bars	26	27	28	29	30	31	32	33	34				
3/16" Bars	29 7/8	31 1/16	32 1/4	33 7/16	34 5/8	35 13/16	37	38 3/16	39 3/8				
1/8" Bars	29 13/16	31	32 3/16	33 3/8	34 9/16	35 3/4	36 15/16	38 1/8	39 5/16				