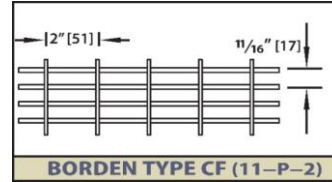
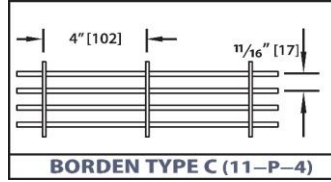




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**Pressure Locked Grating
Aluminum**

LOAD TABLE



Free air % of 1/8" bars: 79.26%
Free air % of 3/16" bars: 70.45%

Free air % of 1/8" bars: 76.70%
Free air % of 3/16" bars: 68.18%

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"	2.17	0.0767	0.2045	36	U	409	262	182	134	102	81	65	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																		
						Du	0.192	0.3	0.432	0.588	0.768	0.972	1.2																			
		C				409	327	273	234	205	182	164																				
		Dc				0.154	0.24	0.346	0.47	0.614	0.778	0.96																				
2	3/4"x3/16"	3.17	0.1151	0.3068	40	U	614	393	273	200	153	121	98																			
						Du	0.192	0.3	0.432	0.588	0.768	0.972	1.2																			
		C				614	491	409	351	307	273	245																				
		Dc				0.154	0.24	0.346	0.47	0.614	0.778	0.96																				
3	1"x1/8"	2.97	0.1818	0.3636	45	U	727	465	323	237	182	144	116														96	81	69			
						Du	0.144	0.225	0.324	0.441	0.576	0.729	0.9														1.089	1.296	1.521			
		C				727	582	485	416	364	323	291	264														242	224				
		Dc				0.115	0.18	0.259	0.353	0.461	0.583	0.72	0.871														1.037	1.217				
4	1"x3/16"	4.23	0.2727	0.5455	50	U	1091	698	485	356	273	215	175														144	121	103	89	68	54
						Du	0.144	0.225	0.324	0.441	0.576	0.729	0.9														1.089	1.296	1.521	1.764	2.304	2.916
		C				1091	873	727	623	545	485	436	397														364	336	312	273	242	
		Dc				0.115	0.18	0.259	0.353	0.461	0.583	0.72	0.871														1.037	1.217	1.411	1.843	2.333	
5	1 1/4"x1/8"	3.60	0.3551	0.5682	53	U	1136	727	505	371	284	224	182	150	126	108	93	71	56													
						Du	0.115	0.18	0.259	0.353	0.461	0.583	0.72	0.871	1.037	1.217	1.411	1.843	2.333													
		C				1136	909	758	649	568	505	455	413	379	350	325	284	253														
		Dc				0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129	1.475	1.866														
6	1 1/4"x3/16"	5.18	0.5327	0.8523	59	U	1705	1091	758	557	426	337	273	225	189	161	139	107	84													
						Du	0.115	0.18	0.259	0.353	0.461	0.583	0.72	0.871	1.037	1.217	1.411	1.843	2.333													
		C				1705	1364	1136	974	852	758	682	620	568	524	487	426	379														
		Dc				0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129	1.475	1.866														
7	1 1/2"x1/8"	4.24	0.6136	0.8182	61	U	1636	1047	727	534	409	323	262	216	182	155	134	102	81													
						Du	0.096	0.15	0.216	0.294	0.384	0.486	0.6	0.726	0.864	1.014	1.176	1.536	1.944													
		C				1636	1309	1091	935	818	727	655	595	545	503	468	409	364														
		Dc				0.077	0.12	0.173	0.235	0.307	0.389	0.48	0.581	0.691	0.811	0.941	1.229	1.555														
8	1 1/2"x3/16"	6.13	0.9205	1.2273	68	U	2455	1571	1091	801	614	485	393	325	273	232	200	153	121													
						Du	0.096	0.15	0.216	0.294	0.384	0.486	0.6	0.726	0.864	1.014	1.176	1.536	1.944													
		C				2455	1964	1636	1403	1227	1091	982	893	818	755	701	614	545														
		Dc				0.077	0.12	0.173	0.235	0.307	0.389	0.48	0.581	0.691	0.811	0.941	1.229	1.555														
9	1 3/4"x3/16"	7.08	1.4616	1.6705	76	U	3341	2138	1485	1091	835	660	535	442	371	316	273	209	165													
						Du	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.317	1.666													
		C				3341	2673	2227	1909	1670	1485	1336	1215	1114	1028	955	835	742														
		Dc				0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.053	1.333														
10	2"x3/16"	8.03	2.1818	2.1818	84	U	4364	2793	1939	1425	1091	862	698	577	485	413	356	273	215													
						Du	0.072	0.113	0.162	0.221	0.288	0.365	0.45	0.545	0.648	0.761	0.882	1.152	1.458													
		C				4364	3491	2909	2494	2182	1939	1745	1587	1455	1343	1247	1091	970														
		Dc				0.058	0.09	0.13	0.176	0.23	0.292	0.36	0.436	0.518	0.608	0.706	0.922	1.166														
11	2 1/4"x3/16"	8.98	3.1065	2.7614	92	U	5523	3535	2455	1803	1381	1091	884	730	614	523	451	345	273													
						Du	0.064	0.1	0.144	0.196	0.256	0.324	0.4	0.484	0.576	0.676	0.784	1.024	1.296													
		C				5523	4418	3682	3156	2761	2455	2209	2008	1841	1699	1578	1381	1227														
		Dc				0.051	0.08	0.115	0.157	0.205	0.259	0.32	0.387	0.461	0.541	0.627	0.819	1.037														
12	2 1/2"x3/16"	9.94	4.2614	3.4091	100	U	6818	4364	3030	2226	1705	1347	1091	902	758	646	557	426	337													
						Du	0.058	0.09	0.13	0.176	0.23	0.292	0.36	0.436	0.518	0.608	0.706	0.922	1.166													
		C				6818	5455	4545	3896	3409	3030	2727	2479	2273	2098	1948	1705	1515														
		Dc				0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.737	0.933														

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	14
3/16" Bars	7/8	1 9/16	2 1/4	2 15/16	3 5/8	4 5/16	5	5 11/16	6 3/8	7 1/16	7 3/4	8 7/16	9 1/8
1/8" Bars	13/16	1 1/2	2 3/16	2 7/8	3 9/16	4 1/4	4 15/16	5 5/8	6 5/16	7	7 11/16	8 3/8	9 1/16
# Bars	15	16	17	18	19	20	21	22	23	24	25	26	27
3/16" Bars	9 13/16	10 1/2	11 3/16	11 7/8	12 9/16	13 1/4	13 15/16	14 5/8	15 5/16	16	16 11/16	17 3/8	18 1/16
1/8" Bars	9 3/4	10 7/16	11 1/8	11 13/16	12 1/2	13 3/16	13 7/8	14 9/16	15 1/4	15 15/16	16 5/8	17 5/16	18
# Bars	28	29	30	31	32	33	34	35	36	37	38	39	40
3/16" Bars	18 3/4	19 7/16	20 1/8	20 13/16	21 1/2	22 3/16	22 7/8	23 9/16	24 1/4	24 15/16	25 5/8	26 5/16	27
1/8" Bars	18 11/16	19 3/8	20 1/16	20 3/4	21 7/16	22 1/8	22 13/16	23 1/2	24 3/16	24 7/8	25 9/16	26 1/4	26 15/16
# Bars	41	42	43	44	45	46	47	48	49	50	51	52	53
3/16" Bars	27 11/16	28 3/8	29 1/16	29 3/4	30 7/16	31 1/8	31 13/16	32 1/2	33 3/16	33 7/8	34 9/16	35 1/4	35 15/16
1/8" Bars	27 5/8	28 5/16	29	29 11/16	30 3/8	31 1/16	31 3/4	32 7/16	33 1/8	33 13/16	34 1/2	35 3/16	35 7/8