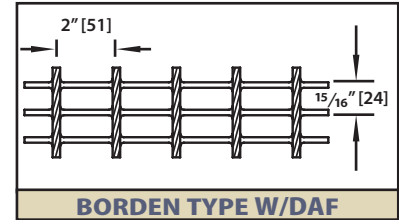
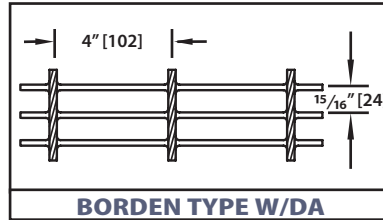


Welded Grating

LOAD TABLE



Size No.	Bearing Bar Size	Weight (#/ft. ²)	Moment of Inertia (in. ⁴ /f.w.)	Section Modulus (in. ³ /f.w.)	Maximum span recommended for 1/4" deflection under uniform load of 100 psf. (normal pedestrian traffic) in inches																			
					Span in Inches																			
					24	30	36	42	48	54	60	66	72	78	84	96	108							
1	3/4" x 1/8"	4.81	0.0563	0.1500	44	U	450	288	200	147	113	89	72	Table in accordance with NAAMM MBG 531-00 F - 18,000 psi E - 29,000,000 psi U - Safe Uniform Load (lbs./sq.ft.) C - Safe Conc. load (lbs./ft. width) D - Deflection in inches f.w. = foot width										
						Du	0.099	0.155	0.223	0.304	0.397	0.503	0.621											
						C	450	360	300	257	225	200	180											
						Dc	0.079	0.124	0.179	0.243	0.318	0.402	0.497											
2	3/4" x 3/16"	6.89	0.0844	0.2250	49	U	675	432	300	220	169	133	108											
						Du	0.099	0.155	0.223	0.304	0.397	0.503	0.621											
						C	675	540	450	386	338	300	270											
						Dc	0.079	0.124	0.179	0.243	0.318	0.402	0.497											
3	1" x 1/8"	6.21	0.1333	0.2667	55	U	800	512	356	261	200	158	128											
						Du	0.074	0.116	0.168	0.228	0.298	0.377	0.466											
						C	800	640	533	457	400	356	320											
						Dc	0.060	0.093	0.134	0.182	0.238	0.302	0.372											
4	1" x 3/16"	8.98	0.2000	0.4000	60	U	1200	768	533	392	300	237	192											
						Du	0.074	0.116	0.168	0.228	0.298	0.377	0.466											
						C	1200	960	800	686	600	533	480											
						Dc	0.060	0.093	0.134	0.182	0.238	0.302	0.372											
5	1 1/4" x 1/8"	7.60	0.2604	0.4167	65	U	1250	800	556	408	313	247	200											
						Du	0.060	0.093	0.134	0.182	0.238	0.302	0.372											
						C	1250	1000	833	714	625	556	500											
						Dc	0.048	0.074	0.107	0.146	0.191	0.241	0.298											
6	1 1/4" x 3/16"	11.06	0.3906	0.6250	71	U	1875	1200	833	612	469	370	300											
						Du	0.060	0.093	0.134	0.182	0.238	0.302	0.372											
						C	1875	1500	1250	1071	938	833	750											
						Dc	0.048	0.074	0.107	0.146	0.191	0.241	0.298											
7	1 1/2" x 1/8"	8.99	0.4500	0.6000	74	U	1800	1152	800	588	450	356	288											
						Du	0.050	0.078	0.112	0.152	0.199	0.251	0.310											
						C	1800	1440	1200	1029	900	800	720											
						Dc	0.040	0.062	0.089	0.122	0.159	0.201	0.248											
8	1 1/2" x 3/16"	13.14	0.6750	0.9000	82	U	2700	1728	1200	882	675	533	432											
						Du	0.050	0.078	0.112	0.152	0.199	0.251	0.310											
						C	2700	2160	1800	1543	1350	1200	1080											
						Dc	0.040	0.062	0.089	0.122	0.159	0.201	0.248											
9	1 3/4" x 3/16"	15.23	1.0719	1.2250	92	U	3675	2352	1633	1200	919	726	588											
						Du	0.043	0.067	0.096	0.130	0.170	0.215	0.266											
						C	3675	2940	2450	2100	1838	1633	1470											
						Dc	0.034	0.053	0.077	0.104	0.136	0.172	0.213											
10	2" x 3/16"	17.31	1.6000	1.6000	102	U	4800	3072	2133	1567	1200	948	768											
						Du	0.037	0.058	0.084	0.114	0.149	0.189	0.233											
						C	4800	3840	3200	2743	2400	2133	1920											
						Dc	0.030	0.047	0.067	0.091	0.119	0.151	0.186											
11	2 1/4" x 3/16"	19.40	2.2781	2.0250	111	U	6075	3888	2700	1984	1519	1200	972											
						Du	0.033	0.052	0.074	0.101	0.132	0.168	0.207											
						C	6075	4860	4050	3471	3038	2700	2430											
						Dc	0.026	0.041	0.060	0.081	0.106	0.134	0.166											
12	2 1/2" x 3/16"	21.48	3.1250	2.5000	120	U	7500	4800	3333	2449	1875	1481	1200											
						Du	0.030	0.047	0.067	0.091	0.119	0.151	0.186											
						C	7500	6000	5000	4286	3750	3333	3000											
						Dc	0.024	0.037	0.054	0.073	0.095	0.121	0.149											

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.

# Bars	PANEL WIDTHS (inches)																			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
3/16" Bars	1 1/8	2 1/16	3	3 15/16	4 7/8	5 13/16	6 3/4	7 11/16	8 5/8	9 9/16	10 1/2	11 7/16	12 3/8	13 5/16	14 1/4	15 3/16	16 1/8	17 1/16	18	
1/8" Bars	1 1/16	2	2 15/16	3 7/8	4 13/16	5 3/4	6 11/16	7 5/8	8 9/16	9 1/2	10 7/16	11 3/8	12 5/16	13 1/4	14 3/16	15 1/8	16 1/16	17	17 15/16	
# Bars	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
3/16" Bars	18 15/16	19 7/8	20 13/16	21 3/4	22 11/16	23 5/8	24 9/16	25 1/2	26 7/16	27 3/8	28 5/16	29 1/4	30 3/16	31 1/8	32 1/16	33	33 15/16	34 7/8	35 13/16	
1/8" Bars	18 7/8	19 13/16	20 3/4	21 11/16	22 5/8	23 9/16	24 1/2	25 7/16	26 3/8	27 5/16	28 1/4	29 3/16	30 1/8	31 1/16	32	32 15/16	33 7/8	34 13/16	35 3/4	