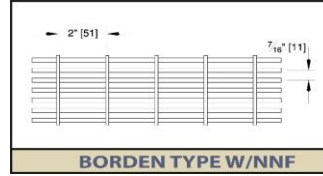
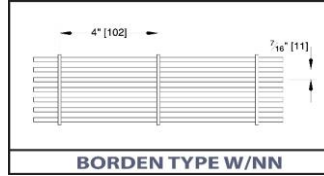




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LOAD TABLE



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"	9.46 10.10	0.1205	0.3214	53	U	964	617	429	315	241	190	154	Table compiled as per ANSI/NAAMM MBG 534-14 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								
						Du	0.099	0.155	0.223	0.304	0.397	0.503	0.621									
						C	964	771	643	551	482	429	386									
						Dc	0.079	0.124	0.179	0.243	0.318	0.402	0.497									
2	3/4"x3/16"	13.85 14.49	0.1808	0.4821	59	U	1446	926	643	472	362	286	231									
						Du	0.099	0.155	0.223	0.304	0.397	0.503	0.621									
						C	1446	1157	964	827	723	643	579									
						Dc	0.079	0.124	0.179	0.243	0.318	0.402	0.497									
3	1"x1/8"	12.41 13.04	0.2857	0.5714	66	U	1714	1097	762	560	429	339	274									
						Du	0.074	0.116	0.168	0.228	0.298	0.377	0.466									
						C	1714	1371	1143	980	857	762	686									
						Dc	0.06	0.093	0.134	0.182	0.238	0.302	0.372									
4	1"x3/16"	18.26 18.90	0.4286	0.8571	73	U	2571	1646	1143	840	643	508	411									
						Du	0.074	0.116	0.168	0.228	0.298	0.377	0.466									
						C	2571	2057	1714	1469	1286	1143	1029									
						Dc	0.06	0.093	0.134	0.182	0.238	0.302	0.372									
5	1 1/4"x1/8"	15.35 15.99	0.5580	0.8929	78	U	2679	1714	1190	875	670	529	429									
						Du	0.06	0.093	0.134	0.182	0.238	0.302	0.372									
						C	2679	2143	1786	1531	1339	1190	1071									
						Dc	0.048	0.074	0.107	0.146	0.191	0.241	0.298									
6	1 1/4"x3/16"	22.66 23.30	0.8371	1.3393	86	U	4018	2571	1786	1312	1004	794	643									
						Du	0.06	0.093	0.134	0.182	0.238	0.302	0.372									
						C	4018	3214	2679	2296	2009	1786	1607									
						Dc	0.048	0.074	0.107	0.146	0.191	0.241	0.298									
7	1 1/2"x1/8"	18.29 18.93	0.9643	1.2857	90	U	3857	2469	1714	1259	964	762	617									
						Du	0.05	0.078	0.112	0.152	0.199	0.251	0.31									
						C	3857	3086	2571	2204	1929	1714	1543									
						Dc	0.04	0.062	0.089	0.122	0.159	0.201	0.248									
8	1 1/2"x3/16"	27.07 27.71	1.4464	1.9286	99	U	5786	3703	2571	1889	1446	1143	926									
						Du	0.05	0.078	0.112	0.152	0.199	0.251	0.31									
						C	5786	4629	3857	3306	2893	2571	2314									
						Dc	0.04	0.062	0.089	0.122	0.159	0.201	0.248									
9	1 3/4"x3/16"	31.48 32.11	2.2969	2.6250	111	U	7875	5040	3500	2571	1969	1556	1260									
						Du	0.043	0.067	0.096	0.13	0.17	0.215	0.266									
						C	7875	6300	5250	4500	3938	3500	3150									
						Dc	0.034	0.053	0.077	0.104	0.136	0.172	0.213									
10	2"x3/16"	35.88 36.52	3.4286	3.4286	123	U	10286	6583	4571	3359	2571	2032	1646									
						Du	0.037	0.058	0.084	0.114	0.149	0.189	0.233									
						C	10286	8229	6857	5878	5143	4571	4114									
						Dc	0.03	0.047	0.067	0.091	0.119	0.151	0.186									
11	2 1/4"x3/16"	40.29 40.92	4.8817	4.3393	134	U	13018	8331	5786	4251	3254	2571	2083									
						Du	0.033	0.052	0.074	0.101	0.132	0.168	0.207									
						C	13018	10414	8679	7439	6509	5786	5207									
						Dc	0.026	0.041	0.06	0.081	0.106	0.134	0.166									
12	2 1/2"x3/16"	44.69 45.33	6.6964	5.3571	145	U	16071	10286	7143	5248	4018	3175	2571									
						Du	0.03	0.047	0.067	0.091	0.119	0.151	0.186									
						C	16071	12857	10714	9184	8036	7143	6429									
						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.

PANEL WIDTHS (inches)													
# Bars	2	3	4	5	6	7	8	9	10	11	12	13	
3/16" Bars	5/8	1 1/16	1 1/2	1 15/16	2 3/8	2 13/16	3 1/4	3 11/16	4 1/8	4 9/16	5	5 7/16	
1/8" Bars	9/16	1	1 7/16	1 7/8	2 5/16	2 3/4	3 3/16	3 5/8	4 1/16	4 1/2	4 15/16	5 3/8	
# Bars	14	15	16	17	18	19	20	21	22	23	24	25	
3/16" Bars	5 7/8	6 5/16	6 3/4	7 3/16	7 5/8	8 1/16	8 1/2	8 15/16	9 3/8	9 13/16	10 1/4	10 11/16	
1/8" Bars	5 13/16	6 1/4	6 11/16	7 1/8	7 9/16	8	8 7/16	8 7/8	9 5/16	9 3/4	10 3/16	10 5/8	
# Bars	26	27	28	29	30	31	32	33	34	35	36	37	
3/16" Bars	11 1/8	11 9/16	12	12 7/16	12 7/8	13 5/16	13 3/4	14 3/16	14 5/8	15 1/16	15 1/2	15 15/16	
1/8" Bars	11 1/16	11 1/2	11 15/16	12 3/8	12 13/16	13 1/4	13 11/16	14 1/8	14 9/16	15	15 7/16	15 7/8	
# Bars	38	39	40	41	42	43	44	45	46	47	48	49	
3/16" Bars	16 3/8	16 13/16	17 1/4	17 11/16	18 1/8	18 9/16	19	19 7/16	19 7/8	20 5/16	20 3/4	21 3/16	
1/8" Bars	16 5/16	16 3/4	17 3/16	17 5/8	18 1/16	18 1/2	18 15/16	19 3/8	19 13/16	20 1/4	20 11/16	21 1/8	
# Bars	50	51	52	53	54	55							
3/16" Bars	21 5/8	22 1/16	22 1/2	22 15/16	23 3/8	23 13/16							
1/8" Bars	21 9/16	22	22 7/16	22 7/8	23 5/16	23 3/4							