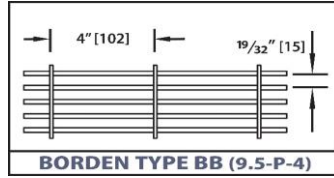
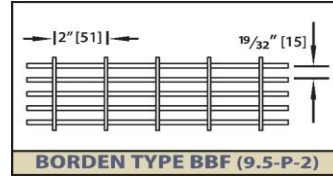


**LOAD TABLE**



Free air % for 1/8" bars: 76.48%  
Free air % for 3/16" bars: 66.28%



Free air % for 1/8" bars: 74.01%  
Free air % for 3/16" bars: 64.14%

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"	7.33	0.0888	0.2368	49	U	711	455	316	232	178	140	114	<p><i>Table compiled as per ANSI/NAAMM MBG 534-14</i> F - 18,000 psi E - 29,000,000 psi</p> <p>U - Safe Uniform Load (lbs./sq.ft.) C - Safe Conc. load (lbs./ft. width) D - Deflection in inches</p>											
						Du	0.099	0.155	0.223	0.304	0.397	0.503	0.621												
		C	711	568		474	406	355	316	284															
		Dc	0.079	0.124		0.179	0.243	0.318	0.402	0.497															
2	3/4"x3/16"	10.74	0.1332	0.3553	55	U	1066	682	474	348	266	211	171												
						Du	0.099	0.155	0.223	0.304	0.397	0.503	0.621												
		C	1066	853		711	609	533	474	426	388	355	328												
		Dc	0.079	0.124		0.179	0.243	0.318	0.402	0.497	0.601	0.715	0.839												
3	1"x1/8"	9.99	0.2105	0.4211	61	U	1263	808	561	412	316	250	202										167	140	120
						Du	0.074	0.116	0.168	0.228	0.298	0.377	0.466										0.563	0.67	0.787
		C	1263	1011		842	722	632	561	505	459	421	389												
		Dc	0.06	0.093		0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629												
4	1"x3/16"	14.32	0.3158	0.6316	68	U	1895	1213	842	619	474	374	303	251	211	179	155	118	94						
						Du	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.67	0.787	0.912	1.192	1.508						
		C	1895	1516		1263	1083	947	842	758	689	632	583	541	474	421									
		Dc	0.06	0.093		0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.73	0.953	1.207									
5	1 1/4"x1/8"	12.16	0.4112	0.6579	72	U	1974	1263	877	644	493	390	316	261	219	187	161	123	97						
						Du	0.06	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.73	0.953	1.207						
		C	1974	1579		1316	1128	987	877	789	718	658	607	564	493	439									
		Dc	0.048	0.074		0.107	0.146	0.191	0.241	0.298	0.36	0.429	0.504	0.584	0.763	0.965									
6	1 1/4"x3/16"	17.58	0.6168	0.9868	80	U	2961	1895	1316	967	740	585	474	391	329	280	242	185	146						
						Du	0.06	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.73	0.953	1.207						
		C	2961	2368		1974	1692	1480	1316	1184	1077	987	911	846	740	658									
		Dc	0.048	0.074		0.107	0.146	0.191	0.241	0.298	0.36	0.429	0.504	0.584	0.763	0.965									
7	1 1/2"x1/8"	14.34	0.7105	0.9474	83	U	2842	1819	1263	928	711	561	455	376	316	269	232	178	140						
						Du	0.05	0.078	0.112	0.152	0.199	0.251	0.31	0.376	0.447	0.524	0.608	0.794	1.006						
		C	2842	2274		1895	1624	1421	1263	1137	1033	947	874	812	711	632									
		Dc	0.04	0.062		0.089	0.122	0.159	0.201	0.248	0.3	0.358	0.42	0.487	0.636	0.804									
8	1 1/2"x3/16"	20.84	1.0658	1.4211	92	U	4263	2728	1895	1392	1066	842	682	564	474	404	348	266	211						
						Du	0.05	0.078	0.112	0.152	0.199	0.251	0.31	0.376	0.447	0.524	0.608	0.794	1.006						
		C	4263	3411		2842	2436	2132	1895	1705	1550	1421	1312	1218	1066	947									
		Dc	0.04	0.062		0.089	0.122	0.159	0.201	0.248	0.3	0.358	0.42	0.487	0.636	0.804									
9	1 3/4"x3/16"	24.10	1.6924	1.9342	103	U	5803	3714	2579	1895	1451	1146	928	767	645	549	474	363	287						
						Du	0.043	0.067	0.096	0.13	0.17	0.215	0.266	0.322	0.383	0.45	0.521	0.681	0.862						
		C	5803	4642		3868	3316	2901	2579	2321	2110	1934	1785	1658	1451	1289									
		Dc	0.034	0.053		0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.36	0.417	0.545	0.689									
10	2"x3/16"	27.36	2.5263	2.5263	114	U	7579	4851	3368	2475	1895	1497	1213	1002	842	718	619	474	374						
						Du	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754						
		C	7579	6063		5053	4331	3789	3368	3032	2756	2526	2332	2165	1895	1684									
		Dc	0.03	0.047		0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603									
11	2 1/4"x3/16"	30.62	3.5970	3.1974	125	U	9592	6139	4263	3132	2398	1895	1535	1268	1066	908	783	600	474						
						Du	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.25	0.298	0.35	0.406	0.53	0.67						
		C	9592	7674		6395	5481	4796	4263	3837	3488	3197	2951	2741	2398	2132									
		Dc	0.026	0.041		0.06	0.081	0.106	0.134	0.166	0.2	0.238	0.28	0.324	0.424	0.536									
12	2 1/2"x3/16"	33.88	4.9342	3.9474	135	U	11842	7579	5263	3867	2961	2339	1895	1566	1316	1121	967	740	585						
						Du	0.03	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603						
		C	11842	9474		7895	6767	5921	5263	4737	4306	3947	3644	3383	2961	2632									
		Dc	0.024	0.037		0.054	0.073	0.095	0.121	0.149	0.18	0.215	0.252	0.292	0.381	0.483									

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	25/32	1 3/8	1 31/32	2 9/16	3 5/32	3 3/4	4 11/32	4 15/16	5 17/32	6 1/8	6 23/32	7 5/16	7 29/32
1/8" Bars	23/32	1 5/16	1 29/32	2 1/2	3 3/32	3 11/16	4 7/8	5 15/32	6 1/16	6 21/32	7 1/4	7 27/32	
# Bars	15	16	17	18	19	20	21	22	23	24	25	26	27
3/16" Bars	8 1/2	9 3/32	9 11/16	10 9/32	10 7/8	11 15/32	12 1/16	12 21/32	13 1/4	13 27/32	14 7/16	15 1/32	15 5/8
1/8" Bars	8 7/16	9 1/32	9 5/8	10 7/32	10 13/16	11 13/32	12	12 19/32	13 3/16	13 25/32	14 3/8	14 31/32	15 9/16
# Bars	28	29	30	31	32	33	34	35	36	37	38	39	40
3/16" Bars	16 7/32	16 13/16	17 13/32	18	18 19/32	19 3/16	19 25/32	20 3/8	20 31/32	21 9/16	22 5/32	22 3/4	23 11/32
1/8" Bars	16 5/32	16 3/4	17 11/32	17 15/16	18 17/32	19 1/8	19 23/32	20 5/16	20 29/32	21 1/2	22 3/32	22 11/16	23 9/32
# Bars	41	42	43	44	45	46	47	48	49	50	51	52	53
3/16" Bars	23 15/16	24 17/32	25 1/8	25 23/32	26 5/16	26 29/32	27 1/2	28 3/32	28 11/16	29 3/32	29 7/8	30 15/32	31 1/16
1/8" Bars	23 7/8	24 15/32	25 1/16	25 21/32	26 1/4	26 27/32	27 7/16	28 1/32	28 5/8	29 7/32	29 13/16	30 13/32	31
# Bars	54	55	56	57	58	59	60	61					
3/16" Bars	31 21/32	32 1/4	32 27/32	33 7/16	34 1/32	34 5/8	35 7/32	35 13/16					
1/8" Bars	31 19/32	32 3/16	32 25/32	33 3/8	33 31/32	34 9/16	35 5/32	35 3/4					