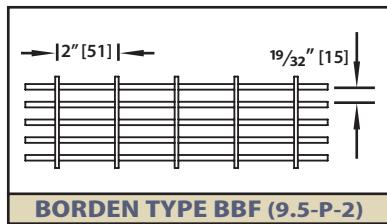
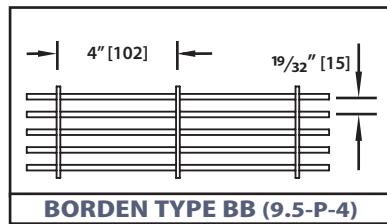


Pressure Locked Grating Steel

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 $\frac{1}{4}$ " 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	$\frac{3}{4}'' \times \frac{1}{8}''$	7.33	0.0888	49	U 711	455	316	232	178	140	114	Table in accordance with NAAMM MBG 531-00 F - 18,000 psi E - 29,000,000 psi											
		8.13			Du 0.099	0.155	0.223	0.304	0.397	0.503	0.621												
	$\frac{3}{4}'' \times \frac{3}{16}''$	10.74	0.1332		C 711	568	474	406	355	316	284												
		11.69			Dc 0.079	0.124	0.179	0.243	0.318	0.402	0.497												
2	$\frac{3}{4}'' \times \frac{3}{16}''$	10.74	0.1332	55	U 1066	682	474	348	266	211	171												
		11.69			Du 0.099	0.155	0.223	0.304	0.397	0.503	0.621												
	$1'' \times \frac{1}{8}''$	9.99	0.2105		C 1066	853	711	609	533	474	426												
		11.26			Dc 0.079	0.124	0.179	0.243	0.318	0.402	0.497												
3	$1'' \times \frac{1}{8}''$	9.99	0.2105	61	U 1263	808	561	412	316	250	202												
		11.26			Du 0.074	0.116	0.168	0.228	0.298	0.377	0.466												
	$1'' \times \frac{3}{16}''$	14.32	0.3158		C 1263	1011	842	722	632	561	505												
		15.59			Dc 0.060	0.093	0.134	0.182	0.238	0.302	0.372												
4	$1'' \times \frac{3}{16}''$	12.16	0.4112	68	U 1895	1213	842	619	474	374	303	251	211	179	155	118	94						
		13.44			Du 0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670	0.787	0.912	1.192	1.508						
	$1\frac{1}{4}'' \times \frac{1}{8}''$	17.58	0.6168		C 1895	1516	1263	1083	947	842	758	689	632	583	541	474	421	389					
		18.85			Dc 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	1.207						
5	$1\frac{1}{4}'' \times \frac{1}{8}''$	20.84	1.0658	72	U 1974	1263	877	644	493	390	316	261	219	187	161	123	97						
		22.11			Du 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	1.207						
	$1\frac{1}{4}'' \times \frac{3}{16}''$	24.10	1.6924		C 1974	1579	1316	1128	987	877	789	718	658	607	564	493	439	395					
		25.37			Dc 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.763	0.965						
6	$1\frac{1}{4}'' \times \frac{3}{16}''$	27.36	2.5263	80	U 2961	1895	1316	967	740	585	474	391	329	280	242	185	146						
		28.63			Du 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	1.207						
	$1\frac{1}{2}'' \times \frac{1}{8}''$	30.62	3.1974		C 2961	2368	1974	1692	1480	1316	1184	1077	987	911	846	740	658						
		31.89			Dc 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.763	0.965						
7	$1\frac{1}{2}'' \times \frac{1}{8}''$	33.88	4.9342	83	U 2842	1819	1263	928	711	561	455	376	316	269	232	178	140						
		35.15			Du 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006						
	$1\frac{1}{2}'' \times \frac{3}{16}''$	38.88	5.5970		C 2842	2274	1895	1624	1421	1263	1137	1033	947	874	812	711	632						
		40.15			Dc 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804						
8	$1\frac{1}{2}'' \times \frac{3}{16}''$	42.88	1.4211	92	U 4263	2728	1895	1392	1066	842	682	564	474	404	348	266	211						
		44.15			Du 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006						
	$1\frac{3}{4}'' \times \frac{3}{16}''$	45.88	1.6924		C 4263	3411	2842	2436	2132	1895	1705	1550	1421	1312	1218	1066	947						
		47.15			Dc 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804						
9	$1\frac{3}{4}'' \times \frac{3}{16}''$	48.88	2.5263	103	U 5803	3714	2579	1895	1451	1146	928	767	645	549	474	363	287						
		50.15			Du 0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862						
	$1\frac{3}{4}'' \times \frac{3}{16}''$	51.88	3.1974		C 5803	4642	3868	3316	2901	2579	2321	2110	1934	1785	1658	1451	1289						
		53.15			Dc 0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689						
10	$2'' \times \frac{3}{16}''$	54.88	3.5970	114	U 7579	4851	3368	2475	1895	1497	1213	1002	842	718	619	474	374						
		56.15			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						
	$2\frac{1}{4}'' \times \frac{3}{16}''$	57.88	4.9342		C 7579	6063	5053	4331	3789	3368	3032	2756	2526	2332	2165	1895	1684						
		59.15			Dc 0.030	0.047	0.067	0.091	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536						
11	$2\frac{1}{4}'' \times \frac{3}{16}''$	60.62	5.5970	125	U 9592	6139	4263	3132	2398	1895	1535	1268	1066	908	783	600	474						
		61.89			Du 0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670						
	$2\frac{1}{4}'' \times \frac{3}{16}''$	63.45	6.2312		C 9592	7674	6395	5481	4796	4263	3837	3488	3197	2951	2741	2398	2132						
		64.72			Dc 0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536						
12	$2\frac{1}{2}'' \times \frac{3}{16}''$	66.15	6.9342	135	U 11842	7579	5263	3867	2961	2339	1895	1566	1316	1121	967	740	585						
		67.42			Du 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603						
	$2\frac{1}{2}'' \times \frac{3}{16}''$	68.68	7.5970		C 11842	9474	7895	6767	5921	5263	4737	4306	3947	3644	3383	2961	2632						
		70.05			Dc 0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	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.

$\frac{1}{4}$ " 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 $\frac{1}{4}$ " to allow for the serrations.

PANEL WIDTHS (inches)			
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