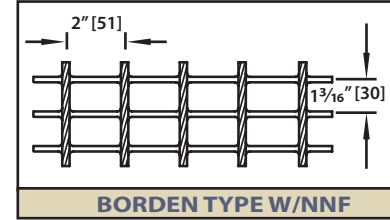
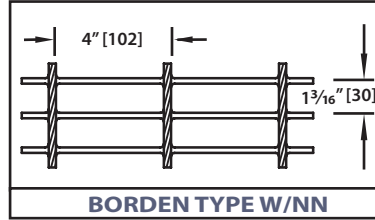


Welded Grating

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)																						
					Span in Inches																						
					24	30	36	42	48	54	60	66	72	78	84	96	108										
1	3/4" x 1/8"	9.46	0.1205	0.3214	53	U	964	617	429	315	241	190	154	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													
		10.10				Du	0.099	0.155	0.223	0.304	0.397	0.503	0.621														
		C				964	771	643	551	482	429	386															
2	3/4" x 3/16"	5.61	0.0666	0.1776	46	Dc	0.079	0.124	0.179	0.243	0.318	0.402	0.497												194	178	164
		6.25				U	533	341	237	174	133	105	85												0.601	0.715	0.839
		C				533	426	355	305	266	237	213	0.601												0.715	0.839	
3	1" x 1/8"	5.06	0.1053	0.2105	51	Dc	0.079	0.124	0.179	0.243	0.318	0.402	0.497												194	178	164
		5.70				U	632	404	281	206	158	125	101												84	70	60
		C				632	505	421	361	316	281	253	230												211	194	
4	1" x 3/16"	7.27	0.1579	0.3158	57	Dc	0.060	0.093	0.134	0.182	0.238	0.302	0.372												0.451	0.536	0.629
		7.90				U	947	606	421	309	237	187	152												125	105	90
		C				947	758	632	541	474	421	379	344												316	291	
5	1 1/4" x 1/8"	6.17	0.2056	0.3289	61	Dc	0.060	0.093	0.134	0.182	0.238	0.302	0.372												0.451	0.536	0.629
		6.81				U	987	632	439	322	247	195	158												130	110	93
		C				987	789	658	564	493	439	395	359												329	304	
6	1 1/4" x 3/16"	8.92	0.3084	0.4934	67	Dc	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504											
		9.56				U	1480	947	658	483	370	292	237	196	164	140											
		C				1480	1184	987	846	740	658	592	538	493	455												
7	1 1/2" x 1/8"	7.28	0.3553	0.4737	70	Dc	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420											
		7.92				U	1421	909	632	464	355	281	227	188	158	135											
		C				1421	1137	947	812	711	632	568	517	474	437												
8	1 1/2" x 3/16"	10.58	0.5329	0.7105	77	Dc	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420											
		11.22				U	2132	1364	947	696	533	421	341	282	237	202											
		C				2132	1705	1421	1218	1066	947	853	775	711	656												
9	1 3/4" x 3/16"	12.24	0.8462	0.9671	87	Dc	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360											
		12.87				U	3789	2425	1684	1237	947	749	606	501	421	359											
		C				3789	3032	2526	2165	1895	1684	1516	1378	1263	1166												
10	2" x 3/16"	13.89	1.2632	1.2632	96	Dc	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315											
		14.53				U	4796	3069	2132	1566	1199	947	767	634	533	454											
		C				4796	3837	3197	2741	2398	2132	1918	1744	1599	1476												
11	2 1/4" x 3/16"	15.55	1.7985	1.5987	105	Dc	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280											
		16.19				U	5921	3789	2632	1933	1480	1170	947	783	658	561											
		C				5921	4737	3947	3383	2961	2632	2368	2153	1974	1822												
12	2 1/2" x 3/16"	17.21	2.4671	1.9737	113	Dc	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252											
		17.84				U	5921	3789	2632	1933	1480	1170	947	783	658	561											
		C				5921	4737	3947	3383	2961	2632	2368	2153	1974	1822												

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