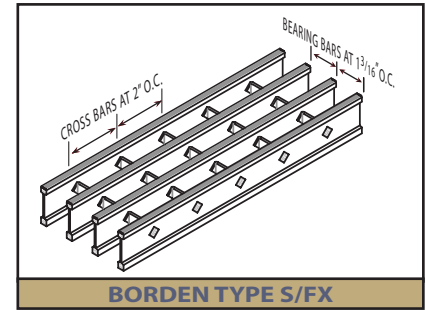
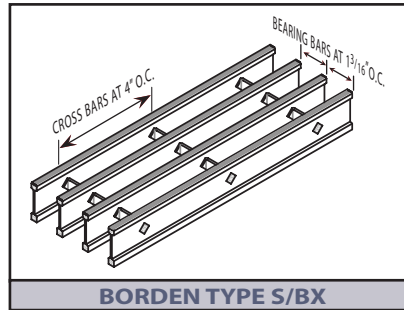
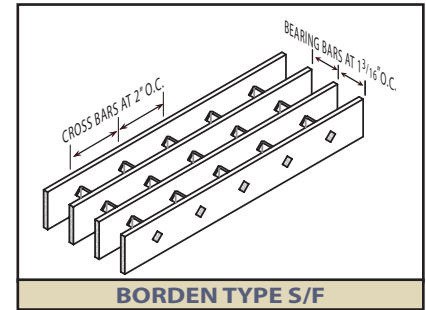
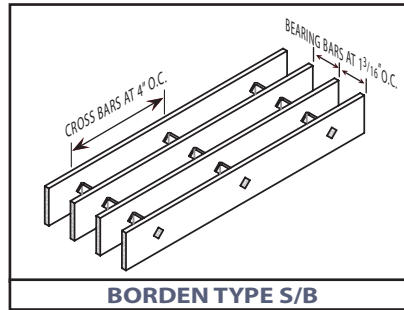




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Squeeze Locked Grating Aluminum



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															Table in accordance with NAAMM MBG 531-00 F - 12,000 psi E - 10,000,000 psi Alloys 6061 T6 and 6063 T6 U - Safe Uniform Load (lbs./sq.ft.) C - Safe Conc. load (lbs./ft. width) D - Deflection in inches f.w. = foot width			
					24	30	36	42	48	54	60	66	72	78	84	96	108						
1	3/4" x 1/8"	1.42	0.0444	0.1184	32	U	237	152	105	77	59	47	38										
		Du				0.192	0.300	0.432	0.588	0.768	0.972	1.200											
		C				237	189	158	135	118	105	95											
		Dc				0.154	0.240	0.346	0.470	0.614	0.778	0.960											
2	3/4" x 3/16"	1.97	0.0666	0.1776	35	U	355	227	158	116	89	70	57										
		Du				0.192	0.300	0.432	0.588	0.768	0.972	1.200											
		C				355	284	237	203	178	158	142											
		Dc				0.154	0.240	0.346	0.470	0.614	0.778	0.960											
3	1" x 1/8"	1.79	0.1053	0.2105	39	U	421	269	187	137	105	83	67	56	47	40							
		Du				0.144	0.225	0.324	0.441	0.576	0.729	0.900											
		C				421	337	281	241	211	187	168											
		Dc				0.115	0.180	0.259	0.353	0.461	0.583	0.720											
4	1" x 3/16"	2.53	0.1579	0.3158	44	U	632	404	281	206	158	125	101	84	70	60	52	39	31				
		Du				0.144	0.225	0.324	0.441	0.576	0.729	0.900											
		C				632	505	421	361	316	281	253	230	211	194	176	158	140					
		Dc				0.115	0.180	0.259	0.353	0.461	0.583	0.720											
5	1 1/4" x 1/8"	2.16	0.2056	0.3289	47	U	658	421	292	215	164	130	105	87	73	62	54	41	32				
		Du				0.115	0.180	0.259	0.353	0.461	0.583	0.720											
		C				658	526	439	376	329	292	263	239	219	202	188	164	146					
		Dc				0.092	0.144	0.207	0.282	0.369	0.467	0.576											
6	1 1/4" x 3/16"	2.88	0.3084	0.4934	52	U	987	632	439	322	247	195	158	130	110	93	81	62	49				
		Du				0.115	0.180	0.259	0.353	0.461	0.583	0.720											
		C				987	789	658	564	493	439	395	359	329	304	282	247	219					
		Dc				0.092	0.144	0.207	0.282	0.369	0.467	0.576											
7	1 1/2" x 1/8"	3.09	0.3553	0.4737	53	U	947	606	421	309	237	187	152	125	105	90	77	59	47				
		Du				0.096	0.150	0.216	0.294	0.384	0.486	0.600											
		C				947	758	632	541	474	421	379	344	316	291	271	237	211					
		Dc				0.077	0.120	0.173	0.235	0.307	0.389	0.480											
8	1 1/2" x 3/16"	3.34	0.5329	0.7105	59	U	1421	909	632	464	355	281	227	188	158	135	116	89	70				
		Du				0.096	0.150	0.216	0.294	0.384	0.486	0.600											
		C				1421	1137	947	812	711	632	568	517	474	437	406	355	316					
		Dc				0.077	0.120	0.173	0.235	0.307	0.389	0.480											
9	1 3/4" x 1/8"	3.69	0.8462	0.9671	66	U	1934	1238	860	632	484	382	309	256	215	183	158	121	96				
		Du				0.082	0.129	0.185	0.252	0.329	0.417	0.514											
		C				1934	1547	1289	1105	967	860	774	703	645	595	553	484	430					
		Dc				0.066	0.103	0.148	0.202	0.263	0.333	0.411											
10	2" x 3/16"	4.20	1.2632	1.2632	73	U	2526	1617	1123	825	632	499	404	334	281	239	206	158	125				
		Du				0.072	0.113	0.162	0.221	0.288	0.365	0.450											
		C				2526	2021	1684	1444	1263	1123	1011	919	842	777	722	632	561					
		Dc				0.058	0.090	0.130	0.176	0.230	0.292	0.360											
11	2 1/4" x 1/8"	4.48	1.7985	1.5987	80	U	3197	2046	1421	1044	799	632	512	423	355	303	261	200	158				
		Du				0.064	0.100	0.144	0.196	0.256	0.324	0.400											
		C				3197	2558	2132	1827	1599	1421	1279	1163	1066	984	914	799	711					
		Dc				0.051	0.080	0.115	0.157	0.205	0.259	0.320											
12	2 1/2" x 3/16"	5.88	2.4671	1.9737	87	U	3947	2526	1754	1289	987	780	632	522	439	374	322	247	195				
		Du				0.058	0.090	0.130	0.176	0.230	0.292	0.360											
		C				3947	3158	2632	2256	1974	1754	1579	1435	1316	1215	1128	987	877					
		Dc				0.046	0.072	0.104	0.141	0.184	0.233	0.288											

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.