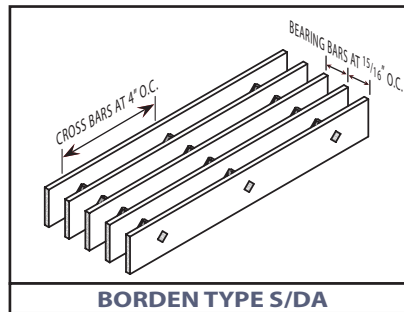
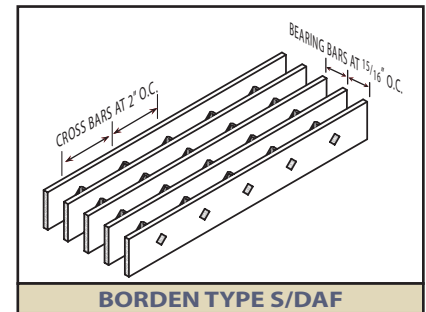


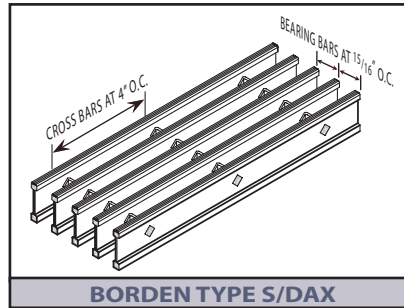
Squeeze Locked Grating Aluminum



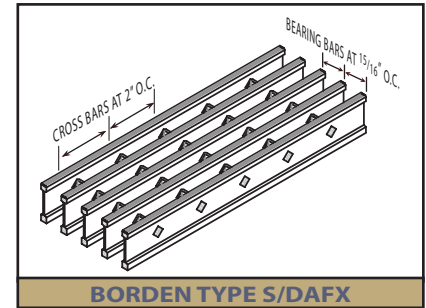
BORDEN TYPE S/DA



BORDEN TYPE S/DAF



BORDEN TYPE S/DAX



BORDEN TYPE S/DAFX

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	$\frac{3}{4}$ " x $\frac{1}{8}$ "	1.67	0.0563	0.15000	34	U	300	192	133	98	75	59	48	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				
		1.97				Du	0.192	0.3	0.432	0.588	0.768	0.972	1.2					
		1.45				C	300	240	200	171	150	133	120					
		2.32				Dc	0.154	0.24	0.346	0.470	0.614	0.778	0.96					
2	$\frac{3}{4}$ " x $\frac{3}{16}$ "	2.36	0.0844	0.2250	37	U	450	288	200	147	113	89	72					
		2.66				Du	0.192	0.3	0.432	0.588	0.768	0.972	1.2					
		2.02				C	450	360	300	257	225	200	180					
		2.13				Dc	0.154	0.24	0.346	0.470	0.614	0.778	0.96					
3	1" x $\frac{1}{8}$ "	2.13	0.1333	0.2667	42	U	533	341	237	174	133	105	85	71	59	50		
		2.43				Du	0.144	0.225	0.324	0.441	0.576	0.729	0.9	1.089	1.296	1.521		
		1.83				C	533	427	356	305	267	237	213	194	178	164		
		2.90				Dc	0.115	0.18	0.259	0.353	0.461	0.583	0.72	0.871	1.037	1.217		
4	1" x $\frac{3}{16}$ "	3.05	0.2000	0.4000	46	U	800	512	356	261	200	158	128	106	89	76	65	
		3.35				Du	0.144	0.225	0.324	0.441	0.576	0.729	0.9	1.089	1.296	1.521	1.764	
		2.60				C	800	640	533	457	400	356	320	291	267	246	229	
		2.52				Dc	0.115	0.18	0.259	0.353	0.461	0.583	0.72	0.871	1.037	1.217	1.411	
5	1 $\frac{1}{4}$ " x $\frac{1}{8}$ "	2.59	0.2604	0.4167	49	U	833	533	370	272	208	165	133	110	93	79	68	
		2.89				Du	0.115	0.18	0.259	0.353	0.461	0.583	0.72	0.871	1.037	1.217	1.411	
		2.22				C	833	667	556	476	417	370	333	303	278	256	238	
		3.47				Dc	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129	
6	1 $\frac{1}{4}$ " x $\frac{3}{16}$ "	3.74	0.3906	0.6250	55	U	1250	800	556	408	313	247	200	165	139	118	102	
		4.04				Du	0.115	0.18	0.259	0.353	0.461	0.583	0.72	0.871	1.037	1.217	1.411	
		3.17				C	1250	1000	833	714	625	556	500	455	417	385	357	
		2.90				Dc	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129	
7	1 $\frac{1}{2}$ " x $\frac{1}{8}$ "	3.05	0.4500	0.6000	57	U	1200	768	533	392	300	237	192	159	133	114	98	
		3.35				Du	0.096	0.15	0.216	0.294	0.384	0.486	0.6	0.726	0.864	1.014	1.176	
		2.60				C	1200	960	800	686	600	533	480	436	400	369	343	
		4.05				Dc	0.077	0.12	0.173	0.235	0.307	0.389	0.48	0.581	0.691	0.811	0.941	
8	1 $\frac{1}{2}$ " x $\frac{3}{16}$ "	4.42	0.6750	0.9000	63	U	1800	1152	800	588	450	356	288	238	200	170	147	
		4.72				Du	0.096	0.15	0.216	0.294	0.384	0.486	0.6	0.726	0.864	1.014	1.176	
		3.75				C	1800	1440	1200	1029	900	800	720	655	600	554	514	
		4.62				Dc	0.077	0.12	0.173	0.235	0.307	0.389	0.48	0.581	0.691	0.811	0.941	
9	1 $\frac{3}{4}$ " x $\frac{3}{16}$ "	5.11	1.0719	1.2250	70	U	2450	1568	1089	800	613	484	392	324	272	232	200	
		5.41				Du	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	
		4.32				C	2450	1960	1633	1400	1225	1089	980	891	817	754	700	
		5.20				Dc	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	
10	2" x $\frac{3}{16}$ "	5.80	1.6000	1.6000	78	U	3200	2048	1422	1045	800	632	512	423	356	303	261	
		6.10				Du	0.072	0.113	0.162	0.221	0.288	0.365	0.45	0.545	0.648	0.761	0.882	
		4.90				C	3200	2560	2133	1829	1600	1422	1280	1164	1067	985	914	
		5.77				Dc	0.058	0.09	0.13	0.176	0.230	0.292	0.36	0.436	0.518	0.608	0.706	
11	2 $\frac{1}{4}$ " x $\frac{3}{16}$ "	6.49	2.2781	2.0250	85	U	4050	2592	1800	1322	1013	800	648	536	450	383	331	
		6.79				Du	0.064	0.1	0.144	0.196	0.256	0.324	0.4	0.484	0.576	0.676	0.784	
		5.47				C	4050	3240	2700	2314	2025	1800	1620	1473	1350	1246	1157	
		6.35				Dc	0.051	0.08	0.115	0.157	0.205	0.259	0.32	0.387	0.461	0.541	0.627	
12	2 $\frac{1}{2}$ " x $\frac{3}{16}$ "	7.17	3.1250	2.5000	92	U	5000	3200	2222	1633	1250	988	800	661	556	473	408	
		7.47				Du	0.058	0.09	0.13	0.176	0.230	0.292	0.36	0.436	0.518	0.608	0.706	
		6.05				C	5000	4000	3333	2857	2500	2222	2000	1818	1667	1538	1429	
		6.35				Dc	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	

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.