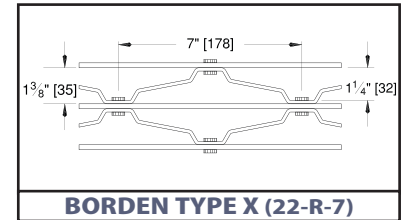
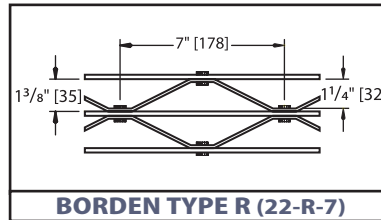


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LOAD TABLE

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														
						24	30	36	42	48	54	60	66	72	78	84	96	108		
1	3/4" x 1/8"	4.16	0.0352	0.0938	30	U	188	120	83	61	47	37	30	25	21	18	15	12	9	
						Du	0.192	0.300	0.432	0.588	0.768	0.972	1.200	1.452	1.728	2.028	2.352	3.072	3.888	
						Dc	0.154	0.240	0.346	0.470	0.614	0.778	0.960	1.162	1.382	1.622	1.882	2.458	3.110	
2	3/4" x 3/16"	4.04	0.0506	0.1350	33	U	270	173	120	88	68	53	43	36	30	26	22	17	13	
						Du	0.192	0.300	0.432	0.588	0.768	0.972	1.200	1.452	1.728	2.028	2.352	3.072	3.888	
						C	270	216	180	154	135	120	108	98	90	83	77	68	60	
3	1" x 1/8"	4.45	0.0833	0.1667	37	Dc	0.154	0.240	0.346	0.470	0.614	0.778	0.960	1.162	1.382	1.622	1.882	2.458	3.110	
						U	333	213	148	109	83	66	53	44	37	32	27	21	16	
						Du	0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089	1.296	1.521	1.764	2.304	2.916	
4	1" x 3/16"	4.45	0.1200	0.2400	41	C	333	267	222	190	167	148	133	121	111	103	95	83	74	
						Dc	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217	1.411	1.843	2.333	
						U	480	307	213	157	120	95	77	63	53	45	39	30	24	
5	1 1/4" x 1/8"	4.73	0.1628	0.2604	44	Du	0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089	1.296	1.521	1.764	2.304	2.916	
						C	480	384	320	274	240	213	192	175	160	148	137	120	107	
						Dc	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217	1.411	1.843	2.333	
6	1 1/4" x 3/16"	4.86	0.2344	0.3750	48	U	521	333	231	170	130	103	83	69	58	49	43	33	26	
						Du	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217	1.411	1.843	2.333	
						C	521	417	347	298	260	231	208	189	174	160	149	130	116	
7	1 1/2" x 1/8"	5.02	0.2813	0.3750	50	Dc	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129	1.475	1.866	
						U	750	480	333	245	188	148	120	99	83	71	61	47	37	
						Du	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217	1.411	1.843	2.333	
8	1 1/2" x 3/16"	5.28	0.4050	0.5400	55	C	750	600	500	429	375	333	300	273	250	231	214	188	167	
						Dc	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129	1.475	1.866	
						U	750	480	333	245	188	148	120	99	83	71	61	47	37	
9	1 3/4" x 3/16"	5.69	0.6431	0.7350	62	Du	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176	1.536	1.944	
						C	750	600	500	429	375	333	300	273	250	231	214	188	167	
						Dc	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941	1.229	1.555	
10	2" x 3/16"	7.10	0.9600	0.9600	69	U	1080	691	480	353	270	213	173	143	120	102	88	68	53	
						Du	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176	1.536	1.944	
						C	1080	864	720	617	540	480	432	393	360	332	309	270	240	
11	2 1/4" x 3/16"	7.51	1.3669	1.2150	75	Dc	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941	1.229	1.555	
						U	1470	941	653	480	368	290	235	194	163	139	120	92	73	
						Du	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.317	1.666	
12	2 1/2" x 3/16"	7.93	1.8750	1.5000	81	C	1470	1176	980	840	735	653	588	535	490	452	420	368	327	
						Dc	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.053	1.333	
						U	1920	1229	853	627	480	379	307	254	213	182	157	120	95	
13	2 3/4" x 3/16"	8.25	2.4375	1.8750	87	Du	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458	
						C	1920	1536	1280	1097	960	853	768	698	640	591	549	480	427	
						Dc	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	0.922	1.166	
14	3" x 3/16"	9.00	3.3750	2.1875	93	U	2430	1555	1080	793	608	480	389	321	270	230	198	152	120	
						Du	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.676	0.784	1.024	1.296	
						C	2430	1944	1620	1389	1215	1080	972	884	810	748	694	608	540	
15	3" x 1/2"	9.75	4.5000	2.5000	99	Dc	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037	
						U	3000	1920	1333	980	750	593	480	397	333	284	245	188	148	
						Du	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	0.922	1.166	
16	3 1/2" x 3/16"	10.50	6.0000	3.0000	105	C	3000	2400	2000	1714	1500	1333	1200	1091	1000	923	857	750	667	
						Dc	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.737	0.933	
						U	3600	2250	1500	1125	875	700	560	450	360	280	220	170	130	100

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