

Bar Size	Symbol / Apprx. Wgt*** Lbs/Sq. Ft.	Ped. Span	Sec. Mod. Per Ft. Of Width		Clear Span												
					2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"
3/4" x 1/8"	10AP4 2.5# 10AP2 2.9#	37"	.225	U	450	288	200	147	113	U=Safe uniform load, lb/sq ft C=Safe concentrated load, lb/ft of grating width, at mid-span D=Deflection in inches Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.							
				D	.192	.300	.432	.588	.768								
				C	450	360	300	257	225								
3/4" x 3/16"	10AP4 3.8# 10AP2 4.3#	41"	.338	D	.154	.240	.346	.470	.614								
				U	675	432	300	220	169								
				D	.192	.300	.432	.588	.768								
1" x 1/8"	10AP4 3.3# 10AP2 3.6#	46"	.400	C	675	540	450	386	338	158	192	165	200	165	200	165	200
				D	.154	.240	.346	.470	.614								
				C	800	640	533	457	400								
1" x 3/16"	10AP4 4.9# 10AP2 5.4#	51"	.600	D	.115	.180	.259	.353	.461	237	192	165	200	165	200	165	200
				U	1200	768	533	392	300	237	192	165	200	165	200	165	200
				D	.144	.225	.324	.441	.576	.729	.900	.871	.871	.871	.871	.871	.871
1-1/4" x 1/8"	10AP4 4.1# 10AP2 4.5#	55"	.625	C	1200	960	800	686	600	533	480	455	500	455	500	455	500
				D	.115	.180	.259	.353	.461	.583	.720	.697	.697	.697	.697	.697	.697
				U	1250	800	556	408	313	247	200	165	200	165	200	165	200
1-1/4" x 3/16"	10AP4 6.1# 10AP2 6.8#	60"	.938	D	.115	.180	.259	.353	.461	.583	.720	.871	.871	.871	.871	.871	.871
				C	1875	1500	1250	1071	938	833	750	682	625	625	625	625	625
				D	.092	.144	.207	.282	.369	.467	.576	.697	.829	.829	.829	.829	.829
1-1/2" x 1/8"	10AP4 4.8# 10AP2 5.3#	63"	.900	U	1800	1152	800	588	450	356	288	238	200	200	200	200	200
				D	.096	.150	.216	.294	.384	.486	.600	.726	.864	.864	.864	.864	.864
				C	1800	1440	1200	1029	900	800	720	655	600	600	600	600	600
1-1/2" x 3/16"	10AP4 7.2# 10AP2 7.9#	69"	1.350	D	.077	.120	.173	.235	.307	.389	.480	.581	.691	.811	.811	.811	.811
				U	2700	1728	1200	882	675	533	432	357	300	256	256	256	256
				D	.096	.150	.216	.294	.384	.486	.600	.726	.864	1.014	1.014	1.014	1.014
1-3/4" x 3/16"	10AP4 8.3# 10AP2 9.0#	78"	1.838	C	2700	2160	1800	1543	1350	1200	1080	982	900	831	831	831	831
				D	.077	.120	.173	.235	.307	.389	.480	.581	.691	.811	.811	.811	.811
				U	3675	2352	1633	1200	919	726	588	486	408	348	300	230	230
2" x 3/16"	10AP4 9.4# 10AP2 10.1#	86"	2.400	D	.082	.129	.185	.252	.329	.417	.514	.622	.741	.869	1.008	1.317	1.317
				C	3675	2940	2450	2100	1838	1633	1470	1336	1225	1131	1050	919	919
				D	.066	.103	.148	.202	.263	.333	.411	.498	.592	.695	.806	1.053	1.053
2-1/4" x 3/16"	10AP4 10.5# 10AP2 11.2#	94"	3.038	U	4800	3072	2133	1567	1200	948	768	635	533	454	392	300	237
				D	.072	.113	.162	.221	.288	.365	.450	.545	.648	.761	.882	1.152	1.458
				C	4800	3840	3200	2743	2400	2133	1920	1745	1600	1477	1371	1200	1067
2-1/2" x 3/16"	10AP4 11.6# 10AP2 12.3#	102"	3.750	D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166
				U	6075	3888	2700	1984	1519	1200	972	803	675	575	496	380	300
				D	.064	.100	.144	.196	.256	.324	.400	.484	.576	.676	.784	1.024	1.296
2-1/2" x 3/16"	10AP4 11.6# 10AP2 12.3#	102"	3.750	C	6075	4860	4050	3471	3038	2700	2430	2209	2025	1869	1736	1519	1350
				D	.051	.080	.115	.157	.205	.259	.320	.387	.461	.541	.627	.819	1.037
				U	7500	4800	3333	2449	1875	1481	1200	992	833	710	612	469	370
2-1/2" x 3/16"	10AP4 11.6# 10AP2 12.3#	102"	3.750	D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166
				C	7500	6000	5000	4286	3750	3333	3000	2727	2500	2308	2143	1875	1667
				D	.046	.072	.104	.141	.184	.233	.288	.348	.415	.487	.564	.737	.933

% Open Area ¹		
Bars	1/8"	3/16"
4"cc	76%	67%
2"cc	71%	62%
¹ Open Area % for reference only - %'s will vary with material & mfg. process.		

***Note: Weight depends on panel width, cross bar selection, mill tolerance and manufacturing tolerance.

Deflection: To ensure safe pedestrian comfort, maximum deflection (D) should be limited to 1/4" for uniform load of 100 psf (denoted by values to the left of heavy line in tables above), however, this can be exceeded for non-pedestrian loading conditions at engineer's discretion.

Serrated Grating: For serrated grating, the depth of grating required for a specified load is 1/4" greater than shown in the above tables.