

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"	8AP4	8AS4	39"	.281	U	563	360	250	184	141	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.																		
	3.1#	3.0#			D	.192	.300	.432	.588	.768																			
	8AP2	8AS2			C	563	450	375	321	281																			
	3.4#	3.4#			D	.154	.240	.346	.470	.614																			
3/4" x 3/16"	8AP4	8AS4	43"	.422	U	844	540	375	276	211	167																		
	4.6#	4.4#			D	.192	.300	.432	.588	.768	.972																		
	8AP2	8AS2			C	844	675	563	482	422	375																		
	5.1#	4.7#			D	.154	.240	.346	.470	.614	.778																		
1" x 1/8"	8AP4	8AS4	49"	.500	U	1000	640	444	327	250	198	160	<div>% Open Area<sup>1</sup></div> <table><tr><td>Bars</td><td>1/8"</td><td>3/16"</td></tr><tr><td>4"cc</td><td>71%</td><td>59%</td></tr><tr><td>2"cc</td><td>68%</td><td>55%</td></tr><tr><td colspan="3"><sup>1</sup>Open Area % for reference only - %'s will vary with material &amp; mfg. process.</td></tr></table>					Bars	1/8"	3/16"	4"cc	71%	59%	2"cc	68%	55%	<sup>1</sup> Open Area % for reference only - %'s will vary with material & mfg. process.		
	Bars	1/8"			3/16"																								
	4"cc	71%			59%																								
	2"cc	68%			55%																								
<sup>1</sup> Open Area % for reference only - %'s will vary with material & mfg. process.																													
4.0#	3.9#	D	.144	.225	.324	.441	.576	.729	.900																				
8AP2	8AS2	C	1000	800	667	571	500	444	400																				
4.3#	4.3#	D	.115	.180	.259	.353	.461	.583	.720																				
1" x 3/16"	8AP4	8AS4	54"	.750	U	1500	960	667	490	375	296	240	198																
	5.9#	5.8#			D	.144	.225	.324	.441	.576	.729	.900	1.089																
	8AP2	8AS2			C	1500	1200	1000	857	750	667	600	545																
	6.4#	6.1#			D	.115	.180	.259	.353	.461	.583	.720	.871																
1-1/4" x 1/8"	8AP4	8AS4	58"	.781	U	1563	1000	694	510	391	309	250	207																
	5.0#	4.9#			D	.115	.180	.259	.353	.461	.583	.720	.871																
	8AP2	8AS2			C	1563	1250	1042	893	781	694	625	568																
	5.4#	5.2#			D	.092	.144	.207	.282	.369	.467	.576	.697																
1-1/4" x 3/16"	8AP4	8AS4	64"	1.172	U	2344	1500	1042	765	586	463	375	310	260															
	7.5#	7.1#			D	.115	.180	.259	.353	.461	.583	.720	.871	1.037															
	8AP2	8AS2			C	2344	1875	1563	1339	1172	1042	938	852	781															
	8.1#	7.4#			D	.092	.144	.207	.282	.369	.467	.576	.697	.829															
1-1/2" x 1/8"	8AP4	8AS4	66"	1.125	U	2250	1440	1000	735	563	444	360	298	250	213														
	5.9#	5.8#			D	.096	.150	.216	.294	.384	.486	.600	.726	.864	1.014														
	8AP2	8AS2			C	2250	1800	1500	1286	1125	1000	900	818	750	692														
	6.3#	6.1#			D	.077	.120	.173	.235	.307	.389	.480	.581	.691	.811														
1-1/2" x 3/16"	8AP4	8AS4	73"	1.688	U	3375	2160	1500	1102	844	667	540	446	375	320	276													
	8.8#	8.5#			D	.096	.150	.216	.294	.384	.486	.600	.726	.864	1.014	1.176													
	8AP2	8AS2			C	3375	2700	2250	1929	1688	1500	1350	1227	1125	1038	964													
	9.5#	8.8#			D	.077	.120	.173	.235	.307	.389	.480	.581	.691	.811	.941													
1-3/4" x 3/16"	8AP4	8AS4	82"	2.297	U	4594	2940	2042	1500	1148	907	735	607	510	435	375	287												
	10.2#	9.8#			D	.082	.129	.185	.252	.329	.417	.514	.622	.741	.869	1.008	1.317												
	8AP2	8AS2			C	4594	3675	3063	2625	2297	2042	1838	1670	1531	1413	1313	1148												
	10.9#	10.2#			D	.066	.103	.148	.202	.263	.333	.411	.498	.592	.695	.806	1.053												
2" x 3/16"	8AP4	8AS4	91"	3.000	U	6000	3840	2667	1959	1500	1185	960	793	667	568	490	375	296											
	11.5#	11.2#			D	.072	.113	.162	.221	.288	.365	.450	.545	.648	.761	.882	1.152	1.458											
	8AP2	8AS2			C	6000	4800	4000	3429	3000	2667	2400	2182	2000	1846	1714	1500	1333											
	12.2#	11.5#			D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166											
2-1/4" x 3/16"	8AP4	8AS4	100"	3.797	U	7594	4860	3375	2480	1898	1500	1215	1004	844	719	620	475	375											
	12.9#	12.6#			D	.064	.100	.144	.196	.256	.324	.400	.484	.576	.676	.784	1.024	1.296											
	8AP2	8AS2			C	7594	6075	5063	4339	3797	3375	3038	2761	2531	2337	2170	1898	1688											
	13.6#	12.9#			D	.051	.080	.115	.157	.205	.259	.320	.387	.461	.541	.627	.819	1.037											
2-1/2" x 3/16"	8AP4	8AS4	108"	4.688	U	9375	6000	4167	3061	2344	1852	1500	1240	1042	888	765	586	463											
	14.3#	13.9#			D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166											
	8AP2	8AS2			C	9375	7500	6250	5357	4688	4167	3750	3409	3125	2885	2679	2344	2083											
	14.9#	14.2#			D	.046	.072	.104	.141	.184	.233	.288	.348	.415	.487	.564	.737	.933											
***Note: Weight depends on panel width, cross bar selection, mill tolerance and manufacturing tolerance.																													

% Open Area <sup>1</sup>		
Bars	1/8"	3/16"
4"cc	71%	59%
2"cc	68%	55%
<sup>1</sup> Open Area % for reference only - %'s will vary with material & mfg. process.		

**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), 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 tables.