

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"	7AP4 3.4#	n/a	n/a	41"	.321	U	643	411	286	210	161	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					643	514	429	367	321																							
	D					.154	.240	.346	.470	.614																							
3/4" x 3/16"	7AP4 5.2#	n/a	n/a	45"	.482	U	964	617	429	315	241	190																					
	D					.192	.300	.432	.588	.768	.972																						
	C					964	771	643	551	482	429																						
	D					.154	.240	.346	.470	.614	.778																						
1" x 1/8"	7AP4 4.5#	n/a	n/a	50"	.571	U	1143	731	508	373	286	226	183	<table><tr><th colspan="3">% Open Area<sup>1</sup></th></tr><tr><th>Bars</th><th>1/8"</th><th>3/16"</th></tr><tr><td>4"cc</td><td>68%</td><td>53%</td></tr><tr><td>2"cc</td><td>64%</td><td>50%</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>					% Open Area <sup>1</sup>			Bars	1/8"	3/16"	4"cc	68%	53%	2"cc	64%	50%	<sup>1</sup> Open Area % for reference only - %'s will vary with material & mfg. process.		
	% Open Area <sup>1</sup>																																
	Bars					1/8"	3/16"																										
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<sup>1</sup> Open Area % for reference only - %'s will vary with material & mfg. process.																																	
D	.144	.225	.324	.441	.576	.729	.900																										
C	1143	914	762	653	571	508	457																										
D	.115	.180	.259	.353	.461	.583	.720																										
1" x 3/16"	7AP4 6.7#	7AS4 6.3#	7AF4 6.3#	56"	.857	U	1714	1097	762	560	429	339	274	227																			
	D	.144	.225			.324	.441	.576	.729	.900	1.089																						
	7AP2 7.2#	7AS2 6.6#	7AF2 6.7#			C	1714	1371	1143	980	857	762	686	623																			
	D	.115	.180			.259	.353	.461	.583	.720	.871																						
1-1/4" x 1/8"	7AP4 5.6#	n/a	n/a	60"	.893	U	1786	1143	794	583	446	353	286	236																			
	D					.115	.180	.259	.353	.461	.583	.720	.871																				
	C					1786	1429	1190	1020	893	794	714	649																				
	D					.092	.144	.207	.282	.369	.467	.576	.697																				
1-1/4" x 3/16"	7AP4 8.4#	7AS4 7.8#	7AF4 7.9#	66"	1.339	U	2679	1714	1190	875	670	529	429	354	298	254																	
	D	.115	.180			.259	.353	.461	.583	.720	.871	1.037	1.217																				
	7AP2 9.1#	7AS2 8.1#	7AF2 8.3#			C	2679	2143	1786	1531	1339	1190	1071	974	893	824																	
	D	.092	.144			.207	.282	.369	.467	.576	.697	.829	.973																				
1-1/2" x 1/8"	7AP4 6.7#	n/a	n/a	68"	1.286	U	2571	1646	1143	840	643	508	411	340	286	243																	
	D					.096	.150	.216	.294	.384	.486	.600	.726	.864	1.014																		
	C					2571	2057	1714	1469	1286	1143	1029	935	857	791																		
	D					.077	.120	.173	.235	.307	.389	.480	.581	.691	.811																		
1-1/2" x 3/16"	7AP4 10.0#	7AS4 9.3#	7AF4 9.5#	76"	1.929	U	3857	2469	1714	1259	964	762	617	510	429	365	315																
	D	.096	.150			.216	.294	.384	.486	.600	.726	.864	1.014	1.176																			
	7AP2 10.7#	7AS2 9.6#	7AF2 9.9#			C	3857	3086	2571	2204	1929	1714	1543	1403	1286	1187	1102																
	D	.077	.120			.173	.235	.307	.389	.480	.581	.691	.811	.941																			
1-3/4" x 3/16"	7AP4 11.5#	7AS4 10.8#	7AF4 11.0#	85"	2.625	U	5250	3360	2333	1714	1313	1037	840	694	583	497	429	328	259														
	D	.082	.129			.185	.252	.329	.417	.514	.622	.741	.869	1.008	1.317	1.666																	
	7AP2 12.2#	7AS2 11.1#	7AF2 11.4#			C	5250	4200	3500	3000	2625	2333	2100	1909	1750	1615	1500	1313	1167														
	D	.066	.103			.148	.202	.263	.333	.411	.498	.592	.695	.806	1.053	1.333																	
2" x 3/16"	7AP4 13.1#	7AS4 12.3#	7AF4 12.5#	94"	3.429	U	6857	4389	3048	2239	1714	1354	1097	907	762	649	560	429	339														
	D	.072	.113			.162	.221	.288	.365	.450	.545	.648	.761	.882	1.152	1.458																	
	7AP2 13.8#	7AS2 12.6#	7AF2 12.9#			C	6857	5486	4571	3918	3429	3048	2743	2494	2286	2110	1959	1714	1524														
	D	.058	.090			.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166																	
2-1/4" x 3/16"	7AP4 14.6#	7AS4 13.8#	7AF4 14.1#	103"	4.339	U	8679	5554	3857	2834	2170	1714	1389	1148	964	822	708	542	429														
	D	.064	.100			.144	.196	.256	.324	.400	.484	.576	.676	.784	1.024	1.296																	
	7AP2 15.3#	7AS2 14.1#	7AF2 14.5#			C	8679	6943	5786	4959	4339	3857	3471	3156	2893	2670	2480	2170	1929														
	D	.051	.080			.115	.157	.205	.259	.320	.387	.461	.541	.627	.819	1.037																	
2-1/2" x 3/16"	7AP4 16.2#	7AS4 15.3#	7AF4 15.6#	112"	5.357	U	10714	6857	4762	3499	2679	2116	1714	1417	1190	1014	875	670	529														
	D	.058	.090			.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166																	
	7AP2 16.9#	7AS2 15.6#	7AF2 16.0#			C	10714	8571	7143	6122	5357	4762	4286	3896	3571	3297	3061	2679	2381														
	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.

**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.