

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"	11AP4 2.3# 11AP2 2.7#	11AS4 2.3# 11AS2 2.6#	n/a	36"	.205	U	409	262	182	134	102	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	409	327	273	234	205								
D	.154	.240	.346	.470	.614														
3/4" x 3/16"	11AP4 3.5# 11AP2 4.0#	11AS4 3.3# 11AS2 3.6#	n/a	40"	.307	U	614	393	273	200	153								
						D	.192	.300	.432	.588	.768								
						C	614	491	409	351	307								
D	.154	.240	.346	.470	.614														
1" x 1/8"	11AP4 3.0# 11AP2 3.3#	11AS4 3.0# 11AS2 3.3#	n/a	45"	.364	U	727	465	323	237	182							144	
						D	.144	.225	.324	.441	.576							.729	
						C	727	582	485	416	364							323	
D	.115	.180	.259	.353	.461	.583													
1" x 3/16"	11AP4 4.5# 11AP2 5.0#	11AS4 4.3# 11AS2 4.6#	11AF4 4.1# 11AF2 4.5#	50"	.545	U	1091	698	485	356	273	215	175						
						D	.144	.225	.324	.441	.576	.729	.900						
						C	1091	873	727	623	545	485	436						
D	.115	.180	.259	.353	.461	.583	.720												
1-1/4" x 1/8"	11AP4 3.8# 11AP2 4.2#	11AS4 3.6# 11AS2 4.0#	n/a	53"	.568	U	1136	727	505	371	284	224	182						
						D	.115	.180	.259	.353	.461	.583	.720						
						C	1136	909	758	649	568	505	455						
D	.092	.144	.207	.282	.369	.467	.576												
1-1/4" x 3/16"	11AP4 5.6# 11AP2 6.3#	11AS4 5.3# 11AS2 5.6#	11AF4 5.1# 11AF2 5.5#	59"	.852	U	1705	1091	758	557	426	337	273	225					
						D	.115	.180	.259	.353	.461	.583	.720	.871					
						C	1705	1364	1136	974	852	758	682	620					
D	.092	.144	.207	.282	.369	.467	.576	.697											
1-1/2" x 1/8"	11AP4 4.4# 11AP2 4.9#	11AS4 4.3# 11AS2 4.6#	n/a	61"	.818	U	1636	1047	727	534	409	323	262	216	182				
						D	.096	.150	.216	.294	.384	.486	.600	.726	.864				
						C	1636	1309	1091	935	818	727	655	595	545				
D	.077	.120	.173	.235	.307	.389	.480	.581	.691										
1-1/2" x 3/16"	11AP4 6.6# 11AP2 7.3#	11AS4 6.3# 11AS2 6.6#	11AF4 6.2# 11AF2 6.6#	68"	1.227	U	2455	1571	1091	801	614	485	393	325	273	232			
						D	.096	.150	.216	.294	.384	.486	.600	.726	.864	1.014			
						C	2455	1964	1636	1403	1227	1091	982	893	818	755			
D	.077	.120	.173	.235	.307	.389	.480	.581	.691	.811									
1-3/4" x 3/16"	11AP4 7.6# 11AP2 8.3#	11AS4 7.3# 11AS2 7.6#	11AF4 7.2# 11AF2 7.6#	76"	1.670	U	3341	2138	1485	1091	835	660	535	442	371	316	273		
						D	.082	.129	.185	.252	.329	.417	.514	.622	.741	.869	1.008		
						C	3341	2673	2227	1909	1670	1485	1336	1215	1114	1028	955		
D	.066	.103	.148	.202	.263	.333	.411	.498	.592	.695	.806								
2" x 3/16"	11AP4 8.6# 11AP2 9.3#	11AS4 8.3# 11AS2 8.6#	11AF4 8.1# 11AF2 8.5#	84"	2.182	U	4364	2793	1939	1425	1091	862	698	577	485	413	356	273	215
						D	.072	.113	.162	.221	.288	.365	.450	.545	.648	.761	.882	1.152	1.458
						C	4364	3491	2909	2494	2182	1939	1745	1587	1455	1343	1247	1091	970
D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166						
2-1/4" x 3/16"	11AP4 9.6# 11AP2 10.3#	11AS4 9.3# 11AS2 9.6#	11AF4 9.1# 11AF2 9.5#	92"	2.761	U	5523	3535	2455	1803	1381	1091	884	730	614	523	451	345	273
						D	.064	.100	.144	.196	.256	.324	.400	.484	.576	.676	.784	1.024	1.296
						C	5523	4418	3682	3156	2761	2455	2209	2008	1841	1699	1578	1381	1227
D	.051	.080	.115	.157	.205	.259	.320	.387	.461	.541	.627	.819	1.037						
2-1/2" x 3/16"	11AP4 10.6# 11AP2 11.3#	11AS4 10.3# 11AS2 10.6#	11AF4 10.1# 11AF2 10.5#	100"	3.409	U	6818	4364	3030	2226	1705	1347	1091	902	758	646	557	426	337
						D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166
						C	6818	5455	4545	3896	3409	3030	2727	2479	2273	2098	1948	1705	1515
D	.046	.072	.104	.141	.184	.233	.288	.348	.415	.487	.564	.737	.933						

% Open Area <sup>1</sup>		
Bars	1/8"	3/16"
4"cc	78%	69%
2"cc	74%	65%

<sup>1</sup>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.