

Bar Size	Symbol / Approx. Weight*** 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"	19AP4 1.5#	19AS4 1.5#	n/a	31"	.118	U	237	152	105	77	<b>U=Safe uniform load, lb/sq ft</b> <b>C=Safe concentrated load, lb/ft of grating width, at mid-span</b> <b>D=Deflection in inches</b> <b>Data is theoretical and based on 12,000 psi.</b> <b>Install Cross Rods on Top.</b>																					
						D	.192	.300	.432	.588																						
	19AP2 1.8#	19AS2 1.8#				C	237	189	158	135																						
	D	.154				.240	.346	.470																								
3/4" x 3/16"	19AP4 2.3#	19AS4 2.1#	n/a	35"	.178	U	355	227	158	116																						
						D	.192	.300	.432	.588																						
	19AP2 2.8#	19AS2 2.4#				C	355	284	237	203																						
	D	.154				.240	.346	.470																								
1" x 1/8"	19AP4 1.9#	19AS4 1.9#	19AF4 1.8#	39"	.211	U	421	269	187	137	105	<table border="1"> <thead> <tr> <th colspan="3">% Open Area<sup>1</sup></th> </tr> <tr> <th>Bars</th> <th>1/8"</th> <th>3/16"</th> </tr> </thead> <tbody> <tr> <td>4"cc</td> <td>85%</td> <td>80%</td> </tr> <tr> <td>2"cc</td> <td>81%</td> <td>77%</td> </tr> <tr> <td colspan="3"><sup>1</sup>Open Area % for reference only - %'s will vary with material &amp; mfg. process.</td> </tr> </tbody> </table>					% Open Area <sup>1</sup>			Bars	1/8"	3/16"	4"cc	85%	80%	2"cc	81%	77%	<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"																										
	4"cc	85%				80%																										
2"cc	81%	77%																														
<sup>1</sup> Open Area % for reference only - %'s will vary with material & mfg. process.																																
D	.144	.225	.324	.441	.576																											
19AP2 2.2#	19AS2 2.2#	19AF2 2.2#	C	421	337	281	241	211																								
D	.115	.180	.259	.353	.461																											
1" x 3/16"	19AP4 2.8#	19AS4 2.7#	19AF4 2.5#	43"	.316	U	632	404	281	206	158	125																				
						D	.144	.225	.324	.441	.576	.729																				
	19AP2 3.3#	19AS2 3.0#				19AF2 2.9#	C	632	505	421	361	316						281														
	D	.115				.180	.259	.353	.461	.583																						
1-1/4" x 1/8"	19AP4 2.4#	19AS4 2.3#	19AF4 2.2#	46"	.329	U	658	421	292	215	164	130																				
						D	.115	.180	.259	.353	.461	.583																				
	19AP2 2.8#	19AS2 2.6#				19AF2 2.6#	C	658	526	439	376	329											292									
	D	.092				.144	.207	.282	.369	.467																						
1-1/4" x 3/16"	19AP4 3.6#	19AS4 3.2#	19AF4 3.1#	51"	.493	U	987	632	439	322	247	195	158																			
						D	.115	.180	.259	.353	.461	.583	.720																			
	19AP2 4.3#	19AS2 3.6#				19AF2 3.5#	C	987	789	658	564	493	439										395									
	D	.092				.144	.207	.282	.369	.467	.576																					
1-1/2" x 1/8"	19AP4 2.8#	19AS4 2.7#	19AF4 2.7#	53"	.474	U	947	606	421	309	237	187	152																			
						D	.096	.150	.216	.294	.384	.486	.600																			
	19AP2 3.2#	19AS2 3.0#				19AF2 3.1#	C	947	758	632	541	474	421											379								
	D	.077				.120	.173	.235	.307	.389	.480																					
1-1/2" x 3/16"	19AP4 4.2#	19AS4 3.8#	19AF4 3.8#	59"	.711	U	1421	909	632	464	355	281	227	188																		
						D	.096	.150	.216	.294	.384	.486	.600	.726																		
	19AP2 4.8#	19AS2 4.1#				19AF2 4.2#	C	1421	1137	947	812	711	632	568										517								
	D	.077				.120	.173	.235	.307	.389	.480	.581																				
1-3/4" x 3/16"	19AP4 4.8#	19AS4 4.4#	19AF4 4.3#	66"	.967	U	1934	1238	860	632	484	382	309	256						215	183											
						D	.082	.129	.185	.252	.329	.417	.514	.622						.741	.869											
	19AP2 5.4#	19AS2 4.7#				19AF2 4.7#	C	1934	1547	1289	1105	967	860	774						703	645						595					
	D	.066				.103	.148	.202	.263	.333	.411	.498	.592	.695																		
2" x 3/16"	19AP4 5.3#	19AS4 5.0#	19AF4 4.9#	73"	1.263	U	2526	1617	1123	825	632	499	404	334	281	239	206															
						D	.072	.113	.162	.221	.288	.365	.450	.545	.648	.761	.882															
	19AP2 6.0#	19AS2 5.3#				19AF2 5.3#	C	2526	2021	1684	1444	1263	1123	1011	919	842	777										722					
	D	.058				.090	.130	.176	.230	.292	.360	.436	.518	.608	.706																	
2-1/4" x 3/16"	19AP4 5.9#	19AS4 5.6#	19AF4 5.5#	80"	1.599	U	3197	2046	1421	1044	799	632	512	423	355	303	261						200									
						D	.064	.100	.144	.196	.256	.324	.400	.484	.576	.676	.784						1.024									
	19AP2 6.6#	19AS2 5.9#				19AF2 5.9#	C	3197	2558	2132	1827	1599	1421	1279	1163	1066	984						914						799			
	D	.051				.080	.115	.157	.205	.259	.320	.387	.461	.541	.627	.819																
2-1/2" x 3/16"	19AP4 6.5#	19AS4 6.2#	19AF4 6.0#	87"	1.974	U	3947	2526	1754	1289	987	780	632	522	439	374	322	247	195													
						D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166													
	19AP2 7.2#	19AS2 6.5#				19AF2 6.4#	C	3947	3158	2632	2256	1974	1754	1579	1435	1316	1215	1128	987										877			
	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 table 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 table.