

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"	15AP4 1.8#	15AS4 1.8#	n/a	33"	.150	U	300	192	133	98	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																					
	C	300				240	200	171																					
D	.154	.240	.346	.470																									
3/4" x 3/16"	15AP4 2.7#	15AS4 2.5#	n/a	37"	.225	U	450	288	200	147	113	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																				
D	.154	.240	.346	.470	.614																								
1" x 1/8"	15AP4 2.3#	15AS4 2.3#	n/a	42"	.267	U	533	341	237	174	133	Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.																	
	D	.144				.225	.324	.441	.576																				
	C	533				427	356	305	267																				
D	.115	.180	.259	.353	.461																								
1" x 3/16"	15AP4 3.4#	15AS4 3.3#	15AF4 3.1#	46"	.400	U	800	512	356	261	200	158	Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.																
	D	.144	.225			.324	.441	.576	.729																				
	C	800	640			533	457	400	356																				
D	.115	.180	.259	.353	.461	.583																							
1-1/4" x 1/8"	15AP4 2.9#	15AS4 2.8#	n/a	49"	.417	U	833	533	370	272	208	165	133	Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.															
	D	.115				.180	.259	.353	.461	.583	.720																		
	C	833				667	556	476	417	370	333																		
D	.092	.144	.207	.282	.369	.467	.576																						
1-1/4" x 3/16"	15AP4 4.3#	15AS4 4.0#	15AF4 3.9#	55"	.625	U	1250	800	556	408	313	247	200	165	Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.														
	D	.115	.180			.259	.353	.461	.583	.720	.871																		
	C	1250	1000			833	714	625	556	500	455																		
D	.092	.144	.207	.282	.369	.467	.576	.697																					
1-1/2" x 1/8"	15AP4 3.4#	15AS4 3.3#	n/a	57"	.600	U	1200	768	533	392	300	237	192	159	Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.														
	D	.096				.150	.216	.294	.384	.486	.600	.726																	
	C	1200				960	800	686	600	533	480	436																	
D	.077	.120	.173	.235	.307	.389	.480	.581																					
1-1/2" x 3/16"	15AP4 5.1#	15AS4 4.7#	15AF4 4.7#	63"	.900	U	1800	1152	800	588	450	356	288	238	200	Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.													
	D	.096	.150			.216	.294	.384	.486	.600	.726	.864																	
	C	1800	1440			1200	1029	900	800	720	655	600																	
D	.077	.120	.173	.235	.307	.389	.480	.581	.691																				
1-3/4" x 3/16"	15AP4 5.8#	15AS4 5.5#	15AF4 5.4#	70"	1.225	U	2450	1568	1089	800	613	484	392	324	272	232	Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.												
	D	.082	.129			.185	.252	.329	.417	.514	.622	.741	.869																
	C	2450	1960			1633	1400	1225	1089	980	891	817	754																
D	.066	.103	.148	.202	.263	.333	.411	.498	.592	.695																			
2" x 3/16"	15AP4 6.5#	15AS4 6.2#	15AF4 6.1#	78"	1.600	U	3200	2048	1422	1045	800	632	512	423	356	303	261	Data is theoretical and based on 12,000 psi. Install Cross Rods on Top.											
	D	.072	.113			.162	.221	.288	.365	.450	.545	.648	.761	.882															
	C	3200	2560			2133	1829	1600	1422	1280	1164	1067	985	914															
D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706																		
2-1/4" x 3/16"	15AP4 7.3#	15AS4 6.9#	15AF4 6.8#	85"	2.025	U	4050	2592	1800	1322	1013	800	648	536	450	383	331	253	200										
	D	.064	.100			.144	.196	.256	.324	.400	.484	.576	.676	.784	1.024	1.296													
	C	4050	3240			2700	2314	2025	1800	1620	1473	1350	1246	1157	1013	900													
D	.051	.080	.115	.157	.205	.259	.320	.387	.461	.541	.627	.819	1.037																
2-1/2" x 3/16"	15AP4 8.0#	15AS4 7.7#	15AF4 7.5#	92"	2.500	U	5000	3200	2222	1633	1250	988	800	661	556	473	408	313	247										
	D	.058	.090			.130	.176	.230	.292	.360	.436	.518	.608	.706	.922	1.166													
	C	5000	4000			3333	2857	2500	2222	2000	1818	1667	1538	1429	1250	1111													
D	.046	.072	.104	.141	.184	.233	.288	.348	.415	.487	.564	.737	.933																

% Open Area¹

Bars	1/8"	3/16"
4"cc	83%	76%
2"cc	79%	73%

¹Open 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.

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***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.