

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"
3/4" x 3/16"	7SP4 14.6#	7SS4 14.3#	58"	.482	U	1607	1029	714	525	402	317	257	U=Safe uniform load, lb/sq ft C=Safe concentrated load, lb/ft of grating width, at mid-span D=Deflection in inches Install Cross Rods on Top.				
	7SP2 16.1#	7SS2 14.9#			D	.114	.179	.257	.350	.457	.578	.714					
					C	1607	1286	1071	918	804	714	643					
					D	.091	.143	.206	.280	.366	.463	.572					
1" x 3/16"	7SP4 19.0#	7SS4 18.5#	73"	.857	U	2857	1829	1270	933	714	564	457	378	317	271	Data is theoretical and based on 20,000 psi.	
	7SP2 20.5#	7SS2 19.1#			D	.086	.134	.193	.263	.343	.434	.536	.649	.770	.907		
					C	2857	2286	1905	1633	1429	1270	1143	1039	952	879		
					D	.069	.107	.154	.210	.274	.347	.429	.519	.617	.724		
1-1/4" x 3/16"	7SP4 23.9#	7SS4 23.0#	86"	1.339	U	4464	2857	1984	1458	1116	882	714	590	496	423	364	279
	7SP2 25.8#	7SS2 23.6#			D	.069	.107	.154	.210	.274	.347	.428	.518	.617	.725	.839	1.097
					C	4464	3571	2976	2551	2232	1984	1786	1623	1488	1374	1276	1116
					D	.055	.086	.123	.168	.219	.278	.343	.415	.494	.580	.672	.878
1-1/2" x 3/16"	7SP4 28.3#	7SS4 27.4#	98"	1.929	U	6429	4114	2857	2099	1607	1270	1029	850	714	609	525	402
	7SP2 30.2#	7SS2 28.0#			D	.057	.089	.129	.175	.229	.289	.357	.432	.514	.604	.700	.915
					C	6429	5143	4286	3674	3214	2857	2571	2338	2143	1978	1837	1607
					D	.046	.071	.103	.140	.183	.231	.286	.346	.411	.483	.560	.731
1-3/4" x 3/16"	7SP4 32.7#	7SS4 30.8#	110"	2.625	U	8750	5600	3889	2857	2188	1728	1400	1157	972	828	714	547
	7SP2 34.6#	7SS2 31.4#			D	.049	.077	.110	.150	.196	.248	.306	.370	.441	.517	.600	.784
					C	8750	7000	5833	5000	4375	3889	3500	3182	2917	2692	2500	2188
					D	.039	.061	.088	.120	.157	.198	.245	.296	.353	.414	.480	.627
2" x 3/16"	7SP4 37.1#	7SS4 36.4#	122"	3.429	U	11429	7314	5079	3732	2857	2258	1829	1511	1270	1082	933	714
	7SP2 39.0#	7SS2 37.0#			D	.043	.067	.096	.131	.171	.217	.268	.324	.386	.453	.525	.685
					C	11429	9143	7619	6531	5714	5079	4572	4156	3810	3517	3265	2857
					D	.034	.054	.077	.105	.137	.174	.214	.259	.309	.362	.420	.549
2-1/4" x 3/16"	7SP4 41.5#	7SS4 41.1#	133"	4.339	U	14465	9257	6429	4723	3616	2857	2314	1913	1607	1369	1181	904
	7SP2 43.4#	7SS2 41.7#			D	.038	.060	.086	.117	.152	.193	.238	.288	.343	.402	.467	.610
					C	14465	11572	9643	8265	7232	6429	5786	5260	4822	4451	4133	3616
					D	.030	.048	.069	.093	.122	.154	.190	.230	.274	.322	.373	.488
2-1/2" x 3/16"	7SP4 45.9#	7SS4 45.4#	144"	5.357	U	17857	11429	7937	5831	4464	3527	2857	2361	1984	1691	1458	1116
	7SP2 47.8#	7SS2 46.0#			D	.034	.054	.077	.105	.137	.174	.214	.259	.309	.362	.420	.549
					C	17857	14286	11905	10204	8929	7937	7143	6494	5952	5495	5102	4464
					D	.027	.043	.062	.084	.110	.139	.171	.207	.247	.290	.336	.439

% Open Area ¹	
Bars	3/16"
4"cc	53%
2"cc	50%
¹ 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 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.