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"	19SW4 3.9# 19SW2 4.4#	19SP4 4.3# 19SP2 5.2#	n/a	41"	.118	U	395	253	175	129	99	78							
						D	.114	.179	.257	.350	.457	.579							
						C	395	316	263	226	197	175							
						D	.091	.143	.206	.280	.366	.463							
3/4" x 3/16"	19SW4 5.6# 19SW2 6.2#	19SP4 6.4# 19SP2 7.8#	19SS4 5.6# 19SS2 6.2#	45"	.178	U	592	379	263	193	148	117							
						D	.114	.179	.257	.350	.457	.579							
						C	592	474	395	338	296	263							
						D	.091	.143	.206	.280	.366	.463							
1" x 1/8"	19SW4 5.0# 19SW2 5.5#	19SP4 5.4# 19SP2 6.3#	19SS4 5.0# 19SS2 5.6#	51"	.211	U	702	449	312	229	175	139	112	93					
						D	.086	.134	.193	.263	.343	.434	.536	.648					
						C	702	561	468	401	351	312	281	255					
						D	.069	.107	.154	.210	.274	.347	.429	.519					
1" x 3/16"	19SW4 7.2# 19SW2 7.8#	19SP4 8.1# 19SP2 9.5#	19SS4 7.2# 19SS2 7.8#	56"	.316	U	1053	674	468	344	263	208	168	139					
						D	.086	.134	.193	.263	.343	.434	.536	.648					
						C	1053	842	702	602	526	468	421	383					
						D	.069	.107	.154	.210	.274	.347	.429	.519					
1-1/4" x 1/8"	19SW4 6.1# 19SW2 6.6#	19SP4 6.8# 19SP2 8.1#	19SS4 6.1# 19SS2 6.7#	60"	.329	U	1096	702	487	358	274	217	175	145	122	104	90		
						D	.069	.107	.154	.210	.274	.347	.429	.519	.617	.724	.840		
						C	1096	877	731	627	548	487	439	399	365	337	313		
						D	.055	.086	.123	.168	.219	.278	.343	.415	.494	.579	.672		
1-1/4" x 3/16"	19SW4 8.9# 19SW2 9.5#	19SP4 10.2# 19SP2 12.1#	19SS4 8.8# 19SS2 9.4#	67"	.493	U	1645	1053	731	537	411	325	263	217	183	156	134		
						D	.069	.107	.154	.210	.274	.347	.429	.519	.617	.724	.840		
						C	1645	1316	1096	940	822	731	658	598	548	506	470		
						D	.055	.086	.123	.168	.219	.278	.343	.415	.494	.579	.672		
1-1/2" x 1/8"	19SW4 7.2# 19SW2 7.7#	19SP4 7.9# 19SP2 9.2#	19SS4 7.2# 19SS2 7.8#	69"	.474	U	1579	1011	702	516	395	312	253	209	175	149	129	99	78
						D	.057	.089	.129	.175	.229	.289	.357	.432	.514	.604	.700	.914	1.157
						C	1579	1263	1053	902	789	702	632	574	526	486	451	395	351
						D	.046	.071	.103	.140	.183	.231	.286	.346	.411	.483	.560	.731	.926
1-1/2" x 3/16"	19SW4 10.5# 19SW2 11.2#	19SP4 11.8# 19SP2 13.8#	19SS4 10.5# 19SS2 11.1#	76"	.711	U	2368	1516	1053	773	592	468	379	313	263	224	193	148	117
						D	.057	.089	.129	.175	.229	.289	.357	.432	.514	.604	.700	.914	1.157
						C	2368	1895	1579	1353	1184	1053	947	861	789	729	677	592	526
						D	.046	.071	.103	.140	.183	.231	.286	.346	.411	.483	.560	.731	.926
1-3/4" x 3/16"	19SW4 12.2# 19SW2 12.8#	19SP4 13.5# 19SP2 15.4#	19SS4 11.7# 19SS2 12.3#	86"	.967	U	3224	2063	1433	1053	806	637	516	426	358	305	263	201	159
						D	.049	.077	.110	.150	.196	.248	.306	.370	.441	.517	.600	.784	.992
						C	3224	2579	2149	1842	1612	1433	1289	1172	1075	992	921	806	716
						D	.039	.061	.088	.120	.157	.198	.245	.296	.353	.414	.480	.627	.793
2" x 3/16"	19SW4 13.9# 19SW2 14.5#	19SP4 15.2# 19SP2 17.1#	19SS4 13.8# 19SS2 14.4#	95"	1.263	U	4211	2695	1871	1375	1053	832	674	557	468	399	344	263	208
						D	.043	.067	.096	.131	.171	.217	.268	.324	.386	.453	.525	.686	.868
						C	4211	3368	2807	2406	2105	1871	1684	1531	1404	1296	1203	1053	936
						D	.034	.054	.077	.105	.137	.174	.214	.259	.309	.362	.420	.549	.694
2-1/4" x 3/16"	19SW4 15.5# 19SW2 16.1#	19SP4 16.8# 19SP2 18.7#	19SS4 15.5# 19SS2 16.1#	104"	1.599	U	5329	3411	2368	1740	1332	1053	853	705	592	505	435	333	263
						D	.038	.060	.086	.117	.152	.193	.238	.288	.343	.402	.467	.610	.771
						C	5329	4263	3553	3045	2664	2368	2132	1938	1776	1640	1523	1332	1184
						D	.030	.048	.069	.093	.122	.154	.190	.230	.274	.322	.373	.488	.617
2-1/2" x 3/16"	19SW4 17.2# 19SW2 17.8#	19SP4 18.5# 19SP2 20.4#	19SS4 17.1# 19SS2 17.7#	112"	1.974	U	6579	4211	2924	2148	1645	1300	1053	870	731	623	537	411	325
						D	.034	.054	.077	.105	.137	.174	.214	.259	.309	.362	.420	.549	.694
						C	6579	5263	4386	3759	3289	2924	2632	2392	2193	2024	1880	1645	1462
						D	.027	.043	.062	.084	.110	.139	.171	.207	.247	.290	.336	.439	.555

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 20,000 psi. Install Cross Rods on Top.

% Open Area[1]		
Bars	1/8"	3/16"
4"cc	83%	77%
2"cc	76%	71%

[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.