

Bar Size	Symbol / Approx. 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"								
1" x 1/4"	19AI4 2.0# 19AI2 2.4#	46"	.354	U	707	453	314	231	177	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.														
				D	.135	.212	.304	.415	.542															
				C	707	566	472	404	354															
				D	.108	.169	.244	.332	.434															
1-1/4" x 1/4"	19AI4 2.3# 19AI2 2.7#	53"	.539	U	1077	689	479	352	269	213	<table><tr><th colspan="2">% Open Area<sup>1</sup></th></tr><tr><th>4"cc</th><td>73%</td></tr><tr><th>2"cc</th><td>67%</td></tr><tr><td colspan="2"><sup>1</sup>Open Area % for reference only - %'s will vary with material &amp; mfg. process.</td></tr></table>						% Open Area <sup>1</sup>		4"cc	73%	2"cc	67%	<sup>1</sup> Open Area % for reference only - %'s will vary with material & mfg. process.	
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D	.110	.172	.248	.337	.439	.557																		
C	1077	862	718	616	539	479																		
D	.088	.137	.198	.270	.352	.446																		
1-1/2" x 1/4"	19AI4 2.7# 19AI2 3.1#	61"	.766	U	1532	980	681	500	383	303	245	203												
				D	.092	.144	.207	.282	.369	.467	.576	.699												
				C	1532	1226	1021	875	766	681	613	557												
				D	.074	.115	.166	.226	.295	.373	.461	.558												
1-3/4" x 1/4"	19AI4 3.1# 19AI2 3.5#	68"	1.029	U	2057	1317	914	672	514	406	329	272	229											
				D	.079	.124	.179	.244	.318	.402	.497	.601	.717											
				C	2057	1646	1372	1176	1029	914	823	748	686											
				D	.064	.099	.143	.195	.254	.322	.398	.481	.573											
2" x 1/4"	19AI4 3.4# 19AI2 3.8#	75"	1.341	U	2682	1716	1192	876	670	530	429	355	298	254										
				D	.070	.109	.157	.214	.279	.354	.436	.529	.629	.738										
				C	2682	2145	1788	1532	1341	1192	1073	975	894	825										
				D	.056	.087	.126	.171	.224	.283	.349	.422	.503	.590										
2-1/4" x 1/4"	19AI4 3.8# 19AI2 4.2#	82"	1.673	U	3347	2142	1487	1093	837	661	535	443	372	317	273									
				D	.062	.097	.140	.191	.249	.315	.389	.472	.561	.658	.763									
				C	3347	2677	2231	1912	1673	1487	1339	1217	1116	1030	956									
				D	.050	.078	.112	.153	.199	.252	.312	.377	.449	.527	.610									
2-1/2" x 1/4"	19AI4 4.2# 19AI2 4.6#	88"	2.068	U	4137	2648	1839	1351	1034	817	662	547	460	392	338	259								
				D	.056	.088	.126	.172	.225	.285	.351	.425	.506	.594	.689	.901								
				C	4137	3310	2758	2364	2068	1839	1655	1504	1379	1273	1182	1034								
				D	.045	.070	.101	.138	.180	.228	.281	.340	.405	.475	.551	.719								

\*\*\*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.