

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"
1" x 1/4"	11Al4 3.2# 11Al2 3.6#	52"	.611	U	1222	782	543	399	305	241	U=Safe uniform load, lb/sq ft C=Safe concentrated load, lb/ft of grating width, at mid-span D=Deflection in inches					
				D	.136	.212	.305	.415	.541	.685						
				C	1222	977	815	698	611	543						
				D	.108	.169	.244	.332	.434	.549						
1-1/4" x 1/4"	11Al4 3.8# 11Al2 4.2#	61"	.930	U	1861	1191	827	608	465	368	298	246	Data is theoretical and based on 12,000 psi			
				D	.110	.172	.247	.337	.440	.557	.688	.831				
				C	1861	1489	1240	1063	930	827	744	677				
				D	.088	.137	.198	.269	.352	.445	.550	.666				
1-1/2" x 1/4"	11Al4 4.4# 11Al2 4.8#	70"	1.323	U	2646	1694	1176	864	662	523	423	350	294			
				D	.092	.144	.207	.282	.369	.467	.576	.697	.830			
				C	2646	2117	1764	1512	1323	1176	1058	962	882			
				D	.074	.115	.166	.226	.295	.373	.461	.558	.664			
1-3/4" x 1/4"	11Al4 5.0# 11Al2 5.4#	78"	1.777	U	3554	2274	1579	1160	888	702	569	470	395	336	290	
				D	.080	.124	.179	.244	.318	.402	.497	.601	.716	.839	.973	
				C	3554	2843	2369	2031	1777	1579	1422	1292	1185	1093	1015	
				D	.064	.099	.143	.195	.254	.322	.398	.481	.573	.671	.779	
2" x 1/4"	11Al4 5.7# 11Al2 6.1#	86"	2.316	U	4633	2965	2059	1513	1158	915	741	613	515	439	378	290
				D	.070	.109	.157	.214	.279	.354	.436	.529	.629	.738	.855	1.119
				C	4633	3706	3088	2647	2316	2059	1853	1685	1544	1425	1324	1158
				D	.056	.087	.126	.171	.223	.283	.349	.423	.503	.590	.685	.894
2-1/4" x 1/4"	11Al4 6.2# 11Al2 6.6#	94"	2.891	U	5781	3700	2569	1888	1445	1142	925	764	642	547	472	361
				D	.062	.097	.140	.191	.249	.315	.389	.471	.560	.658	.763	.996
				C	5781	4625	3854	3303	2891	2569	2312	2102	1927	1779	1652	1445
				D	.050	.078	.112	.153	.199	.252	.311	.377	.449	.526	.611	.797
2-1/2" x 1/4"	11Al4 6.9# 11Al2 7.3#	101"	3.573	U	7146	4573	3176	2333	1787	1412	1143	945	794	677	583	447
				D	.056	.088	.126	.172	.225	.285	.351	.425	.506	.594	.688	.900
				C	7146	5717	4764	4083	3573	3176	2858	2599	2382	2199	2042	1787
				D	.045	.070	.101	.138	.180	.228	.281	.340	.405	.475	.551	.720

***Note: Weight depends on panel width, cross bar selection, mill tolerance and manufacturing tolerance.

% Open Area ¹	
4"cc	59%
2"cc	55%
¹ Open Area % for reference only - %'s will vary with material & mfg. process.	

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), however, this can be exceeded for non-pedestrian loading conditions at engineer's discretion.