

Data is theoretical and based on 20,000 psi.

Bar Size	Symbol / Apprx. Wgt*** Lbs/Sq. Ft.		Symbol / Apprx. Wgt*** Lbs/Sq. Ft.		Sec. Mod. Per Ft. Of Width	Maximum Safe Concentrated Load*, Lbs. - Clear Span												
						1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	7'-0"	8'-0"
1" x 1/4"	30W4	6.3#	30W2	6.9#	.267	1780	1187	889	711	593	508	444	395	356	323	296	254	222
1" x 5/16"	30W4	8.6#	30W2	10.1#	.333	2221	1481	1111	889	741	635	556	494	444	404	370	317	278
1" x 3/8"	30W4	10.0#	30W2	11.5#	.400	2667	1778	1333	1067	889	762	667	593	533	485	444	381	333
1-1/4" x 1/4"	30W4	7.7#	30W2	8.3#	.417	2780	1853	1389	1111	926	794	694	617	556	505	463	397	347
1-1/4" x 5/16"	30W4	10.4#	30W2	11.9#	.521	3470	2314	1736	1389	1157	992	868	772	694	631	579	496	434
1-1/4" x 3/8"	30W4	12.1#	30W2	13.6#	.625	4167	2778	2083	1667	1389	1190	1042	926	833	758	694	595	521
1-1/2" x 1/4"	30W4	9.1#	30W2	9.6#	.600	4000	2667	2000	1600	1333	1143	1000	889	800	727	667	571	500
1-1/2" x 5/16"	30W4	12.1#	30W2	13.6#	.750	5000	3333	2500	2000	1667	1429	1250	1111	1000	909	833	714	625
1-1/2" x 3/8"	30W4	14.3#	30W2	15.8#	.900	6000	4000	3000	2400	2000	1714	1500	1333	1200	1091	1000	857	750
1-3/4" x 1/4"	30W4	10.6#	30W2	11.2#	.817	5447	3631	2722	2178	1815	1556	1361	1210	1089	990	907	778	681
1-3/4" x 5/16"	30W4	13.9#	30W2	15.4#	1.021	6803	4536	3403	2722	2269	1944	1701	1512	1361	1237	1134	972	851
1-3/4" x 3/8"	30W4	16.4#	30W2	17.9#	1.225	8167	5444	4083	3267	2722	2333	2042	1815	1633	1485	1361	1167	1021
2" x 1/4"	30W4	12.0#	30W2	12.6#	1.067	7113	4742	3556	2844	2370	2032	1778	1580	1422	1293	1185	1016	889
2" x 5/16"	30W4	15.7#	30W2	17.2#	1.333	8887	5924	4444	3556	2963	2540	2222	1975	1778	1616	1481	1270	1111
2" x 3/8"	30W4	18.5#	30W2	20.0#	1.600	10667	7111	5333	4267	3556	3048	2667	2370	2133	1939	1778	1524	1333
2-1/4" x 1/4"	30W4	13.4#	30W2	14.0#	1.350	9000	6000	4500	3600	3000	2571	2250	2000	1800	1636	1500	1286	1125
2-1/4" x 5/16"	30W4	17.5#	30W2	19.0#	1.688	11244	7498	5625	4500	3750	3214	2813	2500	2250	2045	1875	1607	1406
2-1/4" x 3/8"	30W4	20.6#	30W2	22.1#	2.025	13500	9000	6750	5400	4500	3857	3375	3000	2700	2455	2250	1929	1688
2-1/2" x 1/4"	30W4	14.8#	30W2	15.4#	1.667	11113	7409	5556	4444	3704	3175	2778	2469	2222	2020	1852	1587	1389
2-1/2" x 5/16"	30W4	19.2#	30W2	20.7#	2.083	13887	9258	6944	5556	4630	3968	3472	3086	2778	2525	2315	1984	1736
2-1/2" x 3/8"	30W4	22.8#	30W2	24.3#	2.500	16667	11111	8333	6667	5556	4762	4167	3704	3333	3030	2778	2381	2083
2-3/4" x 1/4"	30W4	17.1#	30W2	18.6#	2.017	13437	8960	6722	5378	4481	3841	3361	2988	2689	2444	2241	1921	1681
2-3/4" x 5/16"	30W4	21.6#	30W2	23.6#	2.521	16798	11201	8403	6722	5602	4802	4201	3735	3361	3056	2801	2401	2101
2-3/4" x 3/8"	30W4	25.4#	30W2	27.5#	3.025	20156	13441	10083	8067	6722	5762	5042	4481	4033	3667	3361	2881	2521
3" x 1/4"	30W4	18.6#	30W2	20.1#	2.400	16000	10667	8000	6400	5333	4571	4000	3556	3200	2909	2667	2286	2000
3" x 5/16"	30W4	23.3#	30W2	25.4#	3.000	20000	13333	10000	8000	6667	5714	5000	4444	4000	3636	3333	2857	2500
3" x 3/8"	30W4	27.5#	30W2	29.6#	3.600	24000	16000	12000	9600	8000	6857	6000	5333	4800	4364	4000	3429	3000
3-1/4" x 1/4"	30W4	20.0#	30W2	21.5#	2.817	18769	12516	9389	7511	6259	5365	4694	4173	3756	3414	3130	2683	2347
3-1/4" x 5/16"	30W4	25.1#	30W2	27.1#	3.521	23460	15644	11736	9389	7824	6706	5868	5216	4694	4268	3912	3353	2934
3-1/4" x 3/8"	30W4	29.7#	30W2	31.7#	4.225	28152	18773	14083	11267	9389	8048	7042	6259	5633	5121	4694	4024	3521
3-1/2" x 1/4"	30W4	21.4#	30W2	22.9#	3.267	21780	14520	10889	8711	7259	6222	5444	4840	4356	3960	3630	3111	2722
3-1/2" x 5/16"	30W4	26.9#	30W2	28.9#	4.083	27208	18143	13611	10889	9074	7778	6806	6049	5444	4949	4537	3889	3403
3-1/2" x 3/8"	30W4	31.8#	30W2	33.8#	4.900	32667	21778	16333	13067	10889	9333	8167	7259	6533	5939	5444	4667	4083
4" x 1/4"	30W4	24.2#	30W2	25.7#	4.267	28447	18964	14222	11378	9481	8127	7111	6321	5689	5172	4741	4063	3556
4" x 5/16"	30W4	30.4#	30W2	32.5#	5.333	35553	23702	17778	14222	11852	10159	8889	7901	7111	6465	5926	5079	4444
4" x 3/8"	30W4	36.0#	30W2	38.1#	6.400	42667	28444	21333	17067	14222	12190	10667	9481	8533	7758	7111	6095	5333
4-1/2" x 1/4"	30W4	27.1#	30W2	28.6#	5.400	36000	24000	18000	14400	12000	10286	9000	8000	7200	6545	6000	5143	4500
4-1/2" x 5/16"	30W4	34.0#	30W2	36.0#	6.750	44978	29993	22500	18000	15000	12857	11250	10000	9000	8182	7500	6429	5625
4-1/2" x 3/8"	30W4	40.3#	30W2	42.3#	8.100	54000	36000	27000	21600	18000	15429	13500	12000	10800	9818	9000	7714	6750
5" x 1/4"	30W4	29.9#	30W2	31.4#	6.667	44422	29631	22222	17778	14815	12698	11111	9877	8889	8081	7407	6349	5556
5" x 5/16"	30W4	37.5#	30W2	39.6#	8.333	55528	37036	27778	22222	18519	15873	13889	12346	11111	10101	9259	7937	6944
5" x 3/8"	30W4	44.5#	30W2	46.6#	10.000	66633	44444	33333	26667	22222	19048	16667	14815	13333	12121	11111	9524	8333
6" x 1/4"	30W4	35.6#	30W2	37.1#	9.600	63968	42656	32000	25600	21333	18286	16000	14222	12800	11636	10667	9143	8000
6" x 5/16"	30W4	44.6#	30W2	46.7#	12.000	79960	53320	40000	32000	26667	22857	20000	17778	16000	14545	13333	11429	10000
6" x 3/8"	30W4	53.0#	30W2	55.1#	14.400	95952	63984	48000	38400	32000	27429	24000	21333	19200	17455	16000	13714	12000
* Based on 6.4 bars/ft of grating width. Bearing bars 1-7/8" center to center.																		
*** Weight depends on panel width, cross bar selection, mill tolerance and manufacturing tolerance.																		
Serrated Grating: For serrated grating, the depth of grating required for a specified load is 1/4" greater than shown in the above table.																		