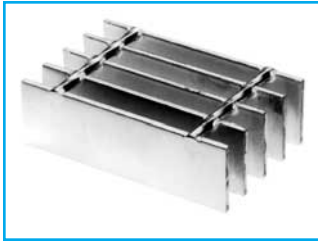


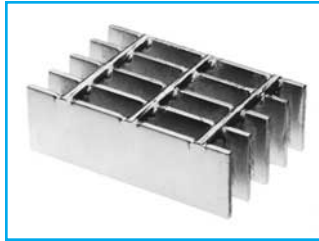
Steel Bar Grating

WELDED

15/16" Center to Center of Bearing Bars



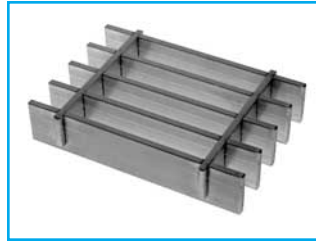
15-W-4
Cross Rods 4" C/C



15-W-2
Cross Rods 2" C/C

PRESS-LOCKED

15/16" Center to Center of Bearing Bars



15-P-4
Cross Bars 4" C/C



15-P-2
Cross Bars 2" C/C

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width	SPAN (Length of Bearing Bar)								
				2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"		
3/4" x 1/8"	15-4-32	W 5.1	0.150	U	450	288	200	147	113	89		
				D	0.099	0.155	0.223	0.304	0.397	0.503		
				C	450	360	300	257	225	200		
3/4" x 3/16"	15-2-32	W 6.1	0.225	U	675	432	300	220	169	133	108	
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621	
				C	675	540	450	386	338	300	270	
1" x 1/8"	15-4-42	W 6.1	0.267	U	800	512	356	261	200	158	128	
				D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	
				C	800	640	533	457	400	356	320	
1" x 3/16"	15-2-42	W 7.5	0.400	U	1200	768	533	392	300	237	192	
				D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	
				C	1200	960	800	686	600	533	480	
1-1/4" x 1/8"	15-4-52	W 7.5	0.417	U	1250	800	556	408	313	247	200	
				D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	
				C	1250	1000	833	714	625	556	500	
1-1/4" x 3/16"	15-2-52	W 8.1	0.625	U	1875	1200	833	612	469	370	300	
				D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	
				C	1875	1500	1250	1071	938	833	750	
1-1/2" x 1/8"	15-4-62	W 8.9	0.600	U	1800	1152	800	588	450	356	288	
				D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	
				C	1800	1440	1200	1029	900	800	720	
1-1/2" x 3/16"	15-2-62	W 9.4	0.900	U	2700	1728	1200	882	675	533	432	
				D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	
				C	2700	2160	1800	1543	1350	1200	1080	
1-3/4" x 1/8"	15-4-73	W 13.1	1.225	U	3675	2352	1633	1200	919	726	588	
				D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	
				C	3675	2940	2450	2100	1838	1633	1470	
2" x 3/16"	15-2-73	W 14.4	1.600	U	4800	3072	2133	1567	1200	948	768	
				D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	
				C	4800	3840	3200	2743	2400	2133	1920	
2-1/4" x 1/8"	15-4-83	W 17.3	2.025	U	4800	3072	2133	1567	1200	948	768	
				D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	
				C	4800	3888	2700	1984	1519	1200	972	
2-1/4" x 3/16"	15-2-83	W 18.4	2.500	U	6075	3888	2700	1984	1519	1200	972	
				D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	
				C	6075	4860	4050	3471	3038	2700	2430	
2-1/2" x 1/8"	15-4-103	W 20.5	2.500	U	7500	4800	3333	2449	1875	1481	1200	
				D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	
				C	7500	6000	5000	4286	3750	3333	3000	
2-1/2" x 3/16"	15-2-103	W 24.7		U	7500	4800	3333	2449	1875	1481	1200	
				D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	
				C	7500	6000	5000	4286	3750	3333	3000	

U = safe uniform load, psf
 C = safe concentrated load, plw
 D = deflection, inches
 E = modulus of elasticity, 29,000,000 psi
 F = fiber stress, 18,000 psi
Material: ASTM A-569 standard
Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides safe pedestrian comfort. These can be exceeded for other types of loads with engineer's approval.
Serrated Bars: For serrated grating, the depth of grating required for a specified load is 1/4" deeper than that shown in the table.
General: Loads and deflections are theoretical and based on static loading.

W/P-15 PANEL WIDTH (inches)

Note: P-Press Locked cross bars typically extend 1/8" each side. W-Welded cross rods may extend 1/8" each side. Panel widths do not include these extensions.

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1/8" Bar	1 ^{1/16}	2	2 ^{15/16}	3 ^{7/8}	4 ^{13/16}	5 ^{3/4}	6 ^{11/16}	7 ^{5/8}	8 ^{9/16}	9 ^{1/2}	10 ^{7/16}	11 ^{3/8}	12 ^{5/16}	13 ^{1/4}	14 ^{3/16}	15 ^{1/8}	16 ^{1/16}	17	17 ^{15/16}
3/16" Bar	1 ^{1/8}	2 ^{1/16}	3	3 ^{15/16}	4 ^{7/8}	5 ^{13/16}	6 ^{3/4}	7 ^{11/16}	8 ^{5/8}	9 ^{9/16}	10 ^{1/2}	11 ^{7/16}	12 ^{3/8}	13 ^{5/16}	14 ^{1/4}	15 ^{3/16}	16 ^{1/8}	17 ^{1/16}	18
No. of Bars	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1/8" Bar	18 ^{7/8}	19 ^{13/16}	20 ^{3/4}	21 ^{11/16}	22 ^{5/8}	23 ^{9/16}	24 ^{1/2}	25 ^{7/16}	26 ^{3/8}	27 ^{5/16}	28 ^{1/4}	29 ^{3/16}	30 ^{1/8}	31 ^{1/16}	32	32 ^{15/16}	33 ^{7/8}	34 ^{13/16}	35 ^{3/4}
3/16" Bar	18 ^{15/16}	19 ^{7/8}	20 ^{13/16}	21 ^{3/4}	22 ^{11/16}	23 ^{5/8}	24 ^{9/16}	25 ^{1/2}	26 ^{7/16}	27 ^{3/8}	28 ^{5/16}	29 ^{1/4}	30 ^{3/16}	31 ^{1/8}	32 ^{1/16}	33	33 ^{15/16}	34 ^{7/8}	35 ^{15/16}