

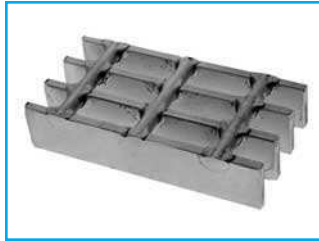
Heavy-Duty Steel Grating

HEAVY-DUTY WELDED

15/16" Center to Center of Bearing Bars



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



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

U = safe uniform load, psf
 C = safe concentrated load, pfw
 D = deflection, inches
 E = modulus of elasticity, 29,000,000 psi
 F = fiber stress, 20,000 psi

Material: ASTM A-36

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.

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. For deflections of uniform and concentrated loads, consult AMICO-Klemp's engineering departments.

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"	5'-6"	6'-0"	7'-0"	8'-0"	
1" x 1/4"	15-4-44	11.7	0.533	U	1,778	1,138	790	580	444	351	284	235	198	145	111
	15-2-44	12.3		C	1,778	1,422	1,185	1,016	889	790	711	646	593	508	444
1" x 5/16"	15-4-45	15.3	0.667	U	2,222	1,422	988	726	556	439	356	294	247	181	139
	15-2-45	16.8		C	2,222	1,778	1,481	1,270	1,111	988	889	808	741	635	556
1" x 3/8"	15-4-46	18.1	0.800	U	2,667	1,707	1,185	871	667	527	427	353	296	218	167
	15-2-46	19.6		C	2,667	2,133	1,778	1,524	1,333	1,185	1,067	970	889	762	667
1-1/4" x 1/4"	15-4-54	14.5	0.833	U	2,778	1,778	1,235	907	694	549	444	367	309	227	174
	15-2-54	15.1		C	2,778	2,222	1,852	1,587	1,389	1,235	1,111	1,010	926	794	694
1-1/4" x 5/16"	15-4-55	18.8	1.042	U	3,472	2,222	1,543	1,134	868	686	556	459	386	283	217
	15-2-55	20.3		C	3,472	2,778	2,315	1,984	1,736	1,543	1,389	1,263	1,157	992	868
1-1/4" x 3/8"	15-4-56	22.2	1.250	U	4,167	2,667	1,852	1,361	1,042	823	667	551	463	340	260
	15-2-56	23.7		C	4,167	3,333	2,778	2,381	2,083	1,852	1,667	1,515	1,389	1,190	1,042
1-1/2" x 1/4"	15-4-64	17.2	1.200	U	4,000	2,560	1,778	1,306	1,000	790	640	529	444	327	250
	15-2-64	17.7		C	4,000	3,200	2,667	2,286	2,000	1,778	1,600	1,455	1,333	1,143	1,000
1-1/2" x 5/16"	15-4-65	22.3	1.500	U	5,000	3,200	2,222	1,633	1,250	988	800	661	556	408	313
	15-2-65	23.8		C	5,000	4,000	3,333	2,857	2,500	2,222	2,000	1,818	1,667	1,429	1,250
1-1/2" x 3/8"	15-4-66	26.4	1.800	U	6,000	3,840	2,667	1,959	1,500	1,185	960	793	667	490	375
	15-2-66	27.9		C	6,000	4,800	4,000	3,429	3,000	2,667	2,400	2,182	2,000	1,714	1,500
1-3/4" x 1/4"	15-4-74	20.0	1.633	U	5,444	3,484	2,420	1,778	1,361	1,075	871	720	605	444	340
	15-2-74	20.6		C	5,444	4,356	3,630	3,111	2,722	2,420	2,178	1,980	1,815	1,556	1,361
1-3/4" x 5/16"	15-4-75	25.7	2.042	U	6,806	4,356	3,025	2,222	1,701	1,344	1,089	900	756	556	425
	15-2-75	27.2		C	6,806	5,444	4,537	3,889	3,403	3,025	2,722	2,475	2,269	1,944	1,701
1-3/4" x 3/8"	15-4-76	30.5	2.450	U	8,167	5,227	3,630	2,667	2,042	1,613	1,307	1,080	907	667	510
	15-2-76	32.0		C	8,167	6,533	5,444	4,667	4,083	3,630	3,267	2,970	2,722	2,333	2,042
2" x 1/4"	15-4-84	22.8	2.133	U	7,111	4,551	3,160	2,322	1,778	1,405	1,138	940	790	580	444
	15-2-84	23.4		C	7,111	5,689	4,741	4,063	3,556	3,160	2,844	2,586	2,370	2,032	1,778
2" x 5/16"	15-4-85	29.2	2.667	U	8,889	5,689	3,951	2,902	2,222	1,756	1,422	1,175	988	726	556
	15-2-85	30.7		C	8,889	7,111	5,926	5,079	4,444	3,951	3,556	3,232	2,963	2,540	2,222
2" x 3/8"	15-4-86	34.7	3.200	U	10,667	6,827	4,741	3,483	2,667	2,107	1,707	1,410	1,185	871	667
	15-2-86	36.2		C	10,667	8,533	7,111	6,095	5,333	4,741	4,267	3,879	3,556	3,048	2,667
2-1/4" x 1/4"	15-4-94	25.6	2.700	U	9,000	5,760	4,000	2,939	2,250	1,778	1,440	1,190	1,000	735	563
	15-2-94	26.2		C	9,000	7,200	6,000	5,143	4,500	4,000	3,600	3,273	3,000	2,571	2,250
2-1/4" x 5/16"	15-4-95	32.6	3.375	U	11,250	7,200	5,000	3,673	2,813	2,222	1,800	1,488	1,250	918	703
	15-2-95	34.1		C	11,250	9,000	7,500	6,429	5,625	5,000	4,500	4,091	3,750	3,214	2,813
2-1/4" x 3/8"	15-4-96	38.8	4.050	U	13,500	8,640	6,000	4,408	3,375	2,667	2,160	1,785	1,500	1,102	844
	15-2-96	40.3		C	13,500	10,800	9,000	7,714	6,750	6,000	5,400	4,909	4,500	3,857	3,375
2-1/2" x 1/4"	15-4-104	28.3	3.333	U	11,111	7,111	4,938	3,628	2,778	2,195	1,778	1,469	1,235	907	694
	15-2-104	28.9		C	11,111	8,889	7,407	6,349	5,556	4,938	4,444	4,040	3,704	3,175	2,778
2-1/2" x 5/16"	15-4-105	36.1	4.167	U	13,889	8,889	6,173	4,535	3,472	2,743	2,222	1,837	1,543	1,134	868
	15-2-105	37.6		C	13,889	11,111	9,259	7,937	6,944	6,173	5,556	5,051	4,630	3,968	3,472
2-1/2" x 3/8"	15-4-106	42.9	5.000	U	16,667	10,667	7,407	5,442	4,167	3,292	2,667	2,204	1,852	1,361	1,042
	15-2-106	44.4		C	16,667	13,333	11,111	9,524	8,333	7,407	6,667	6,061	5,556	4,762	4,167
2-3/4" x 1/4"	15-4-114	32.0	4.033	U	13,444	8,604	5,975	4,390	3,361	2,656	2,151	1,778	1,494	1,098	840
	15-2-114	33.5		C	13,444	10,756	8,963	7,683	6,722	5,975	5,378	4,889	4,481	3,841	3,361
2-3/4" x 5/16"	15-4-115	40.1	5.042	U	16,806	10,756	7,469	5,488	4,201	3,320	2,689	2,222	1,867	1,372	1,050
	15-2-115	42.1		C	16,806	13,444	11,204	9,603	8,403	7,469	6,722	6,111	5,602	4,802	4,201
2-3/4" x 3/8"	15-4-116	47.6	6.050	U	20,167	12,907	8,963	6,585	5,042	3,984	3,227	2,667	2,241	1,646	1,260
	15-2-116	49.7		C	20,167	16,133	13,444	11,524	10,083	8,963	8,067	7,333	6,722	5,762	5,042

