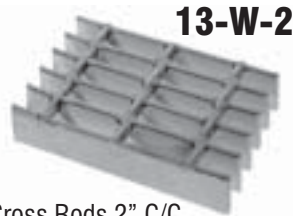
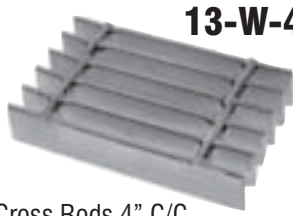


Steel Bar Grating Close-Mesh

WELDED (W) 13/16" C/C Bearing Bars

PRESS-LOCKED (P) 13/16" C/C Bearing Bars



Cross Rods 4" C/C

Cross Rods 2" C/C

Cross Bars 4" C/C

Cross Bars 2" C/C

NON-SERRATED & SERRATED

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

General: Loads and deflections are theoretical and based on static loading.

U = safe uniform load, psf
 C = safe concentrated load, psf
 D = deflection, inches
 E = modulus of elasticity, 29,000,000 psi
 F = fiber stress, 18,000 psi
 Material: ASTM A-1011

Bar Size	Symbol	Approx. Weight psf	Sec. Mod. Per Ft. Of Width	SPAN (Direction of Bearing Bar)																
				24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"				
3/4" x 1/8" Non-Serrated Only	13-W-4	5.3		U	519	332	231	170	130	103										
	13-P-4	5.8	0.173	D	0.099	0.155	0.223	0.304	0.397	0.503										
	13-P-2	6.7		C	519	415	346	297	260	231										
3/4" x 3/16" Non-Serrated Only	13-W-4	7.8		U	779	498	346	254	195	154										
	13-P-4	8.6	0.260	D	0.099	0.155	0.223	0.304	0.397	0.503										
	13-P-2	10.1		C	779	623	519	445	389	346										
1" x 1/8"	13-W-4	6.5		U	923	591	410	301	231	182										
	13-W-2	7.5	0.308	D	0.074	0.116	0.168	0.228	0.298	0.377										
	13-P-2	8.3		C	923	738	615	527	462	410										
1" x 3/16"	13-W-4	10.2		U	1385	886	615	452	346	274										
	13-W-2	10.8	0.462	D	0.074	0.116	0.168	0.228	0.298	0.377										
	13-P-2	11.0		C	1385	1108	923	791	692	615										
1-1/4" x 1/8"	13-W-4	8.5		U	1442	923	641	471	361	285										
	13-W-2	9.1	0.481	D	0.060	0.093	0.134	0.182	0.238	0.302										
	13-P-2	10.5		C	1442	1154	962	824	721	641										
1-1/4" x 3/16"	13-W-4	12.6		U	2163	1385	962	706	541	427										
	13-W-2	13.2	0.721	D	0.060	0.093	0.134	0.182	0.238	0.302										
	13-P-2	15.8		C	2163	1731	1442	1236	1082	962										
1-1/2" x 1/8"	13-W-4	10.1		U	2077	1329	923	678	519	410										
	13-W-2	10.7	0.692	D	0.050	0.078	0.112	0.152	0.199	0.251										
	13-P-2	12.1		C	2077	1662	1385	1187	1038	923										
1-1/2" x 3/16"	13-W-4	15.0		U	3115	1994	1385	1017	779	615										
	13-W-2	15.6	1.038	D	0.050	0.078	0.112	0.152	0.199	0.251										
	13-P-2	18.2		C	3115	2492	2077	1780	1558	1385										
1-3/4" x 3/16"	13-W-4	17.4		U	4240	2714	1889	1385	1060	838										
	13-W-2	18.0	1.413	D	0.043	0.067	0.096	0.130	0.170	0.215										
	13-P-2	20.6		C	4240	3392	2827	2423	2120	1885										
2" x 3/16"	13-W-4	19.8		U	5538	3545	2462	1808	1385	1094										
	13-W-2	20.4	1.846	D	0.037	0.058	0.084	0.114	0.149	0.189										
	13-P-2	21.1		C	5538	4431	3692	3165	2769	2462										
2-1/4" x 3/16"	13-W-4	23.5		U	7010	4486	3115	2289	1752	1385										
	13-P-2	25.4	2.337	D	0.033	0.052	0.074	0.101	0.132	0.168										
	13-P-4	25.4		C	7010	5608	4673	4005	3505	3115										
2-1/2" x 3/16"	13-W-4	25.9		U	8654	5538	3846	2826	2163	1709										
	13-P-4	27.8	2.885	D	0.030	0.047	0.067	0.091	0.119	0.151										
	13-P-2	27.8		C	8654	6923	5769	4945	4327	3846										

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.

W/P-13 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	15/16	1 1/4	2 1/16	3 3/8	4 9/16	5	5 13/16	6 5/8	7 1/16	8 1/4	9 1/16	9 7/8	10 1/16	11 1/2	12 5/16	13 3/8	13 15/16	14 3/4	15 3/8
3/16" Bar	1	1 13/16	2 5/8	3 7/16	4 1/4	5 1/16	5 7/8	6 11/16	7 1/2	8 5/16	9 1/8	9 15/16	10 3/4	11 9/16	12 3/8	13 3/16	14	14 13/16	15 5/8
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	16 3/8	17 3/16	18	18 13/16	19 5/8	20 7/16	21 1/4	22 1/16	22 7/8	23 1/16	24 1/2	25 5/16	26 1/8	26 15/16	27 3/4	28 9/16	29 3/8	30 3/16	31
3/16" Bar	16 7/16	17 1/4	18 1/16	18 7/8	19 1/16	20 1/2	21 5/16	22 1/8	22 15/16	23 3/4	24 9/16	25 3/8	26 3/16	27	27 13/16	28 5/8	29 1/16	30 1/4	31 1/16
No. of Bars	40	41	42	43	44	45													
1/8" Bar	31 13/16	32 5/8	33 1/16	34 1/4	35 1/16	35 7/8													
3/16" Bar	31 7/8	32 1/16	33 1/2	34 5/16	35 1/8	35 15/16													