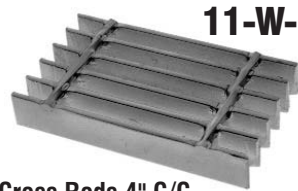
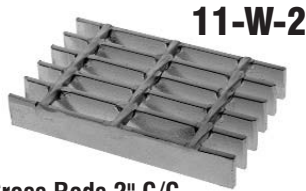


Steel Bar Grating Close-Mesh

WELDED (W) 11/16" C/C Bearing Bars



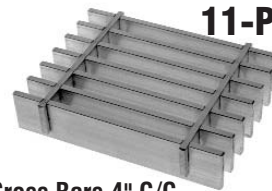
Cross Rods 4" C/C



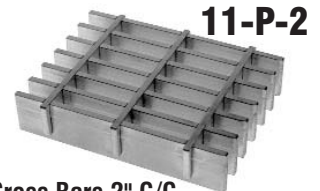
Cross Rods 2" C/C

NON-SERRATED & SERRATED

PRESS-LOCKED (P) 11/16" C/C Bearing Bars



Cross Bars 4" C/C



Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = safe uniform load, psf (page 92)
 C = safe concentrated load, pfw (page 92)
 D = deflection, inches
 E = modulus of elasticity, 29,000,000 psi
 F = fiber stress, 18,000 psi

Material: ASTM A-1011

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.

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Or Width	SPAN (Direction of Bearing Bar)																	
				24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"					
3/4" x 1/8"	11-W-4	6.2	0.205	U	614	393	273	200	153	121	98										
	11-P-4	6.6		D	0.099	0.155	0.223	0.304	0.397	0.503	0.621										
	11-P-2	7.6		C	0.079	0.124	0.179	0.243	0.318	0.402	0.497										
3/4" x 3/16"	11-W-4	9.1	0.307	U	920	589	409	301	230	182	147										
	11-P-4	9.9		D	0.099	0.155	0.223	0.304	0.397	0.503	0.621										
	11-P-2	11.3		C	0.079	0.124	0.179	0.243	0.318	0.402	0.497										
1" x 1/8"	11-W-4	8.1	0.364	U	1091	698	485	356	273	215	175	144	121								
	11-W-2	8.6		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670								
	11-P-4	8.5		C	0.091	0.134	0.191	0.261	0.340	0.429	0.528	0.637	0.756	0.885							
1" x 3/16"	11-W-4	11.9	0.545	U	1636	1047	727	534	409	323	262	216	182	155							
	11-W-2	12.5		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670	0.787							
	11-P-4	12.7		C	0.091	0.134	0.191	0.261	0.340	0.429	0.528	0.637	0.756	0.885	1.024						
1-1/4" x 1/8"	11-W-4	10.0	0.568	U	1705	1091	758	557	426	337	273	225	189	155							
	11-W-2	10.5		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730						
	11-P-4	10.7		C	0.075	0.109	0.156	0.214	0.282	0.361	0.450	0.549	0.658	0.777	0.906	1.045					
1-1/4" x 3/16"	11-W-4	14.7	0.852	U	2557	1636	1136	835	639	505	409	338	284	232	200	153	121				
	11-W-2	15.3		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.849	0.978	1.117			
	11-P-4	16.0		C	0.075	0.109	0.156	0.214	0.282	0.361	0.450	0.549	0.658	0.777	0.906	1.045	1.194	1.343			
1-1/2" x 1/8"	11-W-4	11.9	0.818	U	2455	1571	1091	801	614	485	393	325	273	232	200	153	121				
	11-W-2	12.4		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.704	0.809	0.924	1.049		
	11-P-4	12.6		C	0.065	0.094	0.130	0.180	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.849	0.978	1.117	1.266		
1-1/2" x 3/16"	11-W-4	17.5	1.227	U	3682	2356	1636	1202	920	727	589	487	409	349	301	230	182				
	11-W-2	18.1		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.704	0.809	0.924	1.049		
	11-P-4	18.8		C	0.065	0.094	0.130	0.180	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.849	0.978	1.117	1.266		
1-3/4" x 3/16"	11-W-4	20.4	1.670	U	5011	3207	2227	1636	1253	990	802	663	557	474	409	313	247				
	11-W-2	21.0		D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.601	0.681	0.771	0.871		
	11-P-4	21.7		C	0.051	0.076	0.107	0.141	0.181	0.227	0.279	0.337	0.400	0.469	0.544	0.624	0.714	0.814	0.924	1.044	
2" x 3/16"	11-W-4	23.2	2.182	U	6545	4189	2909	2137	1636	1293	1047	866	727	620	534	409	323				
	11-W-2	23.8		D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.524	0.597	0.674	0.761	0.859	
	11-P-4	24.5		C	0.045	0.067	0.094	0.125	0.161	0.201	0.245	0.294	0.348	0.407	0.471	0.540	0.614	0.693	0.777	0.866	
2-1/4" x 3/16"	11-W-4	26.0	2.761	U	8284	5302	3682	2705	2071	1636	1325	1095	920	784	676	518	409				
	11-W-2	26.6		D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.466	0.530	0.600	0.676	0.759	
	11-P-4	27.3		C	0.040	0.061	0.084	0.111	0.143	0.180	0.221	0.266	0.315	0.369	0.428	0.492	0.561	0.636	0.717	0.804	
2-1/2" x 3/16"	11-W-4	28.8	3.409	U	10227	6545	4545	3340	2557	2020	1636	1352	1136	968	835	639	505				
	11-W-2	29.4		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.420	0.481	0.547	0.617	0.693	
	11-P-4	30.1		C	0.037	0.053	0.074	0.100	0.131	0.167	0.207	0.251	0.299	0.350	0.406	0.466	0.530	0.600	0.676	0.759	
11-P-2	32.0	D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.331	0.371	0.411	0.451	0.491	0.531		

W/P-11 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	13 ¹ / ₁₆	1 ¹ / ₂	2 ³ / ₁₆	2 ⁷ / ₈	3 ⁹ / ₁₆	4 ¹ / ₄	4 ⁵ / ₁₆	5 ³ / ₈	6 ⁵ / ₁₆	7	7 ¹¹ / ₁₆	8 ³ / ₈	9 ¹ / ₁₆	9 ³ / ₄	10 ⁷ / ₁₆	11 ¹ / ₈	11 ³ / ₁₆	12 ¹ / ₂	13 ³ / ₁₆
3/16" Bar	7 ⁷ / ₈	1 ⁹ / ₁₆	2 ¹ / ₄	2 ¹⁵ / ₁₆	3 ⁵ / ₈	4 ⁵ / ₁₆	5	5 ¹¹ / ₁₆	6 ³ / ₈	7 ¹ / ₁₆	7 ³ / ₄	8 ⁷ / ₁₆	9 ¹ / ₈	9 ¹³ / ₁₆	10 ¹ / ₂	11 ³ / ₁₆	11 ⁷ / ₈	12 ⁹ / ₁₆	13 ¹ / ₄
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	13 ⁷ / ₈	14 ⁹ / ₁₆	15 ¹ / ₄	15 ¹⁵ / ₁₆	16 ⁵ / ₈	17 ⁵ / ₁₆	18	18 ¹¹ / ₁₆	19 ³ / ₈	20 ¹ / ₁₆	20 ³ / ₄	21 ⁷ / ₁₆	22 ¹ / ₈	22 ¹³ / ₁₆	23 ¹ / ₂	24 ³ / ₁₆	24 ⁷ / ₈	25 ⁹ / ₁₆	26 ¹ / ₄
3/16" Bar	13 ¹⁵ / ₁₆	14 ⁵ / ₈	15 ⁹ / ₁₆	16	16 ¹¹ / ₁₆	17 ³ / ₈	18 ¹ / ₁₆	18 ³ / ₄	19 ⁷ / ₁₆	20 ¹ / ₈	20 ¹³ / ₁₆	21 ¹ / ₂	22 ³ / ₁₆	22 ⁷ / ₈	23 ⁹ / ₁₆	24 ¹ / ₄	24 ⁵ / ₁₆	25 ⁹ / ₁₆	26 ⁵ / ₁₆
No. of Bars	40	41	42	43	44	45	46	47	48	49	50	51	52	53					
1/8" Bar	26 ¹⁵ / ₁₆	27 ⁵ / ₈	28 ⁹ / ₁₆	29	29 ¹¹ / ₁₆	30 ³ / ₈	31 ¹ / ₁₆	31 ³ / ₄	32 ⁷ / ₁₆	33 ¹ / ₈	33 ¹³ / ₁₆	34 ¹ / ₂	35 ³ / ₁₆	35 ⁷ / ₈					
3/16" Bar	27	27 ¹ / ₁₆	28 ³ / ₈	29 ¹ / ₁₆	29 ³ / ₄	30 ⁷ / ₁₆	31 ¹ / ₈	31 ¹³ / ₁₆	32 ¹ / ₂	33 ³ / ₁₆	33 ⁷ / ₈	34 ⁹ / ₁₆	35 ¹ / ₄	35 ⁵ / ₁₆					