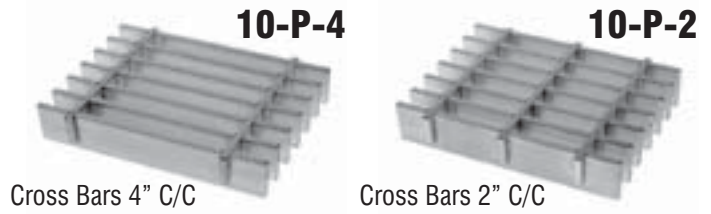
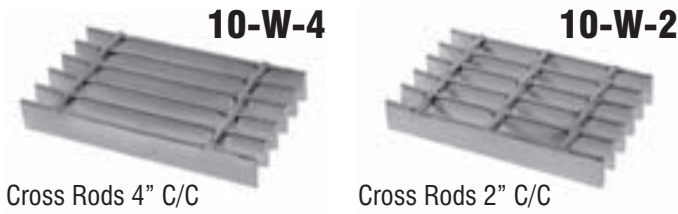


Steel Bar Grating Close-Mesh

WELDED (W) 5/8" C/C of Bearing Bars

PRESS-LOCKED (P) 5/8" C/C of Bearing Bars



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)								66"	72"	78"	84"	96"	108"
				24"	30"	36"	42"	48"	54"	60"							
3/4" x 1/8" Non-Serrated Only	10-W-4	6.8		U	675	432	300	220	169	133	108						
	10-P-4	7.2	0.225	D	0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	10-P-2	8.1		C	675	540	450	386	338	300	270						
3/4" x 3/16" Non-Serrated Only	10-W-4	9.9		U	1013	648	450	331	253	200	162	134					
	10-P-4	10.7	0.338	D	0.099	0.155	0.223	0.304	0.397	0.503	0.621	0.751					
	10-P-2	12.2		C	1013	810	675	579	506	450	405	368					
1" x 1/8"	10-W-4	8.8		U	1200	768	533	392	300	237	192	159	133				
	10-W-2	9.4	0.400	D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	10-P-4	9.2		C	1200	960	800	686	600	533	480	436	400				
1" x 3/16"	10-W-4	10.2		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.601	0.72"		
	10-W-2	13.0	0.600	U	1800	1152	800	588	450	356	288	238	200	170			
	10-W-2	13.6		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670	0.787			
1-1/4" x 1/8"	10-P-4	13.8		C	1800	1440	1200	1029	900	800	720	655	600	554			
	10-P-2	15.3		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.78"		
	10-W-4	10.9	0.625	U	1875	1200	833	612	469	370	300	248	208	178	153		
1-1/4" x 3/16"	10-W-2	11.4		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	10-P-4	11.6		C	1875	1500	1250	1071	938	833	750	682	625	577	536		
	10-P-2	12.9		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.681	0.794
1-1/2" x 1/8"	10-W-4	16.1	0.938	U	2813	1800	1250	918	703	556	450	372	313	266	230	176	
	10-W-2	16.7		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	
	10-P-4	17.4		C	2813	2250	1875	1607	1406	1250	1125	1023	938	865	804	703	
1-1/2" x 3/16"	10-P-2	19.3		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.763	1.08"
	10-W-4	13.0	0.900	U	2700	1728	1200	882	675	533	432	357	300	256	220	169	133
	10-W-2	13.5		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
1-1/2" x 1/8"	10-P-4	13.7		C	2700	2160	1800	1543	1350	1200	1080	982	900	831	771	675	600
	10-P-2	15.0		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
	10-W-4	19.2	1.350	U	4050	2592	1800	1322	1013	800	648	536	450	383	331	253	200
1-1/2" x 3/16"	10-W-2	19.8		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	10-P-4	20.5		C	4050	3240	2700	2314	2025	1800	1620	1473	1350	1246	1157	1013	900
	10-P-2	22.4		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	10-W-4	22.3	1.838	U	5513	3528	2450	1800	1378	1089	882	729	613	522	450	345	272
	10-W-2	22.9		D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	10-P-4	23.6		C	5513	4410	3675	3150	2756	2450	2205	2005	1838	1696	1575	1378	1225
2" x 3/16"	10-P-2	25.5		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
	10-W-4	25.4	2.400	U	7200	4608	3200	2351	1800	1422	1152	952	800	682	588	450	356
	10-W-2	26.0		D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
2-1/4" x 3/16"	10-P-4	26.7		C	7200	5760	4800	4114	3600	3200	2880	2618	2400	2215	2057	1800	1600
	10-P-2	28.6		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	10-W-4	28.5	3.038	U	9113	5832	4050	2976	2278	1800	1458	1205	1013	863	744	570	450
2-1/2" x 3/16"	10-W-2	29.1		D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	10-P-4	29.8		C	9113	7290	6075	5207	4556	4050	3645	3314	3038	2804	2604	2278	2025
	10-P-2	31.7		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	10-W-4	31.6	3.750	U	11250	7200	5000	3673	2813	2222	1800	1488	1250	1065	918	703	556
	10-W-2	32.2		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	10-P-4	32.9		C	11250	9000	7500	6429	5625	5000	4500	4091	3750	3462	3214	2813	2500
10-P-2	34.8		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483	

W/P-10 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	3/4	13/8	2	25/8	31/4	37/8	41/2	51/8	53/4	63/8	7	75/8	81/4	87/8	91/2	101/8	103/4	113/8	12
3/16" Bar	13/16	17/16	21/16	211/16	35/16	315/16	49/16	53/16	513/16	67/16	71/16	711/16	85/16	815/16	99/16	103/16	1013/16	117/16	121/16
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	125/8	133/4	137/8	141/2	151/8	153/4	163/8	17	175/8	181/4	187/8	191/2	201/8	203/4	213/8	22	225/8	231/4	237/8
3/16" Bar	1211/16	135/16	1315/16	149/16	153/16	1515/16	167/16	171/16	1711/16	185/16	1815/16	199/16	203/16	2013/16	217/16	221/16	2211/16	235/16	2315/16
No. of Bars	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
1/8" Bar	241/2	251/8	253/4	263/8	27	275/8	281/4	287/8	291/2	301/8	303/4	313/8	32	325/8	331/4	337/8	341/2	351/8	353/4
3/16" Bar	249/16	253/16	2515/16	267/16	271/16	2711/16	285/16	2815/16	299/16	303/16	3013/16	317/16	321/16	3211/16	335/16	3315/16	349/16	353/16	3515/16