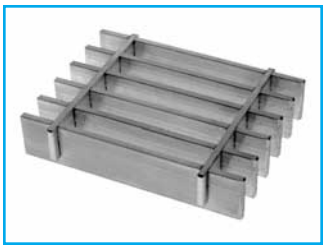
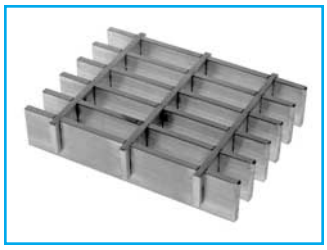
PRESS-LOCKED CLOSE MESH

13/16" Center to Center of Bearing Bars



13-AP-4
Cross Bars 4" C/C



13-AP-2
Cross Bars 2" C/C

LOAD & DEFLECTION TABLE

SPAN (Length of Bearing Bar)

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"
3/4" x 1/8"	13-4-32	2.0	0.173	U	346	222	154	113									
				D	0.192	0.300	0.432	0.588									
	13-2-32	2.4		C	346	277	231	198									
				D	0.154	0.240	0.346	0.470									
3/4" x 3/16"	13-4-33	3.0	0.260	U	519	332	231	170	130								
				D	0.192	0.300	0.432	0.588	0.768								
	13-2-33	3.5		C	519	415	346	297	260								
				D	0.154	0.240	0.346	0.470	0.614								
1" x 1/8"	13-4-42	2.6	0.308	U	615	394	274	201	154								
				D	0.144	0.225	0.324	0.441	0.576								
	13-2-42	2.9		C	615	492	410	352	308								
				D	0.115	0.180	0.259	0.353	0.461								
1" x 3/16"	13-4-43	3.9	0.462	U	923	591	410	301	231	182							
				D	0.144	0.225	0.324	0.441	0.576	0.729							
	13-2-43	4.4		C	923	738	615	527	462	410							
				D	0.115	0.180	0.259	0.353	0.461	0.583							
1-1/4" x 1/8"	13-4-52	3.3	0.481	U	962	615	427	314	240	190							
				D	0.115	0.180	0.259	0.353	0.461	0.583							
	13-2-52	3.7		C	962	769	641	549	481	427							
				D	0.092	0.144	0.207	0.282	0.369	0.467							
1-1/4" x 3/16"	13-4-53	4.9	0.721	U	1442	923	641	471	361	285	231	191					
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
	13-2-53	5.6		C	1442	1154	962	824	721	641	577	524					
				D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/2" x 1/8"	13-4-62	3.8	0.692	U	1385	886	615	452	346	274	222	183					
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726					
	13-2-62	4.3		C	1385	1108	923	791	692	615	554	503					
				D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581					
1-1/2" x 3/16"	13-4-63	5.7	1.038	U	2077	1329	923	678	519	410	332	275	231				
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864				
	13-2-63	6.4		C	2077	1662	1385	1187	1038	923	831	755	692				
				D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691				
1-3/4" x 3/16"	13-4-73	6.6	1.413	U	2827	1809	1256	923	707	558	452	374	314	268			
				D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869			
	13-2-73	7.3		C	2827	2262	1885	1615	1413	1256	1131	1028	942	870			
				D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695			
2" x 3/16"	13-4-83	7.4	1.846	U	3692	2363	1641	1206	923	729	591	488	410	350	301		
				D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882		
	13-2-83	8.1		C	3692	2954	2462	2110	1846	1641	1477	1343	1231	1136	1055		
				D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706		
2-1/4" x 3/16"	13-4-93	8.3	2.337	U	4673	2991	2077	1526	1168	923	748	618	519	442	381	292	231
				D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.676	0.784	1.024	1.296
	13-2-93	8.9		C	4673	3738	3115	2670	2337	2077	1869	1699	1558	1438	1335	1168	1038
				D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	13-4-103	9.1	2.885	U	5769	3692	2564	1884	1442	1140	923	763	641	546	471	361	285
				D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	0.922	1.166
	13-2-103	9.8		C	5769	4615	3846	3297	2885	2564	2308	2098	1923	1775	1648	1442	1282
				D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.737	0.933

U = safe uniform load, psf
C = safe concentrated load, pfw
D = deflection, inches
E = modulus of elasticity, 10,000,000 psi
F = fiber stress, 12,000 psi

Material: ASTM B-221, 6063 or 6061

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.

Finish: Mill finish unless otherwise specified.

AP-13 PANEL WIDTH (inches)

Note: Includes 1/4" (1/8" each side) for extended cross bars on press-locked (AP).

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 3/16	2	2 13/16	3 5/8	4 7/16	5 1/4	6 1/16	6 7/8	7 11/16	8 1/2	9 5/16	10 1/8	10 15/16	11 3/4	12 9/16	13 3/8	14 3/16	15	15 13/16
3/16" Bar	1 1/4	2 1/16	2 7/8	3 11/16	4 1/2	5 5/16	6 1/8	6 15/16	7 3/4	8 9/16	9 3/8	10 3/16	11	11 13/16	12 5/8	13 7/16	14 1/4	15 1/16	15 7/8
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 5/8	17 7/16	18 1/4	19 1/16	19 7/8	20 11/16	21 1/2	22 5/16	23 1/8	23 15/16	24 3/4	25 9/16	26 3/8	27 3/16	28	28 13/16	29 5/8	30 7/16	31 1/4
3/16" Bar	16 11/16	17 1/2	18 5/16	19 1/8	19 15/16	20 3/4	21 9/16	22 3/8	23 3/16	24	24 13/16	25 5/8	26 7/16	27 1/4	28 1/16	28 7/8	29 11/16	30 1/2	31 5/16
No. of Bars	**40**	**41**	**42**	**43**	**44**	**45**													
1/8" Bar	32 1/16	32 7/8	33 11/16	34 1/2	35 5/16	36 1/8													
3/16" Bar	32 1/8	32 15/16	33 3/4	34 9/16	35 3/8	36 3/16													