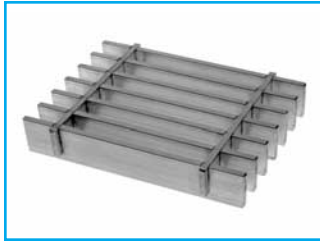


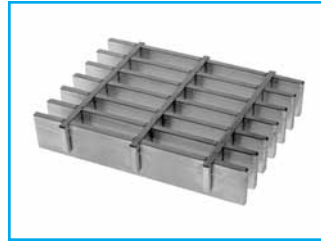
Aluminum Grating

PRESS-LOCKED CLOSE MESH

5/8" Center to Center of Bearing Bars



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



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

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"	6'-6"							
3/4" x 1/8"	10-4-32	2.5	0.225	U	450	288	200	147	113											
				D	0.192	0.300	0.432	0.588	0.768											
	10-2-32	2.9		C	450	360	300	257	225											
				D	0.154	0.240	0.346	0.470	0.614											
3/4" x 3/16"	10-4-33	3.8	0.338	U	675	432	300	220	169											
				D	0.192	0.300	0.432	0.588	0.768											
	10-2-33	4.3		C	675	540	450	386	338											
				D	0.154	0.240	0.346	0.470	0.614											
1" x 1/8"	10-4-42	3.3	0.400	U	800	512	356	261	200	158										
				D	0.144	0.225	0.324	0.441	0.576	0.729										
	10-2-42	3.6		C	800	640	533	457	400	356										
				D	0.115	0.180	0.259	0.353	0.461	0.583										
1" x 3/16"	10-4-43	4.9	0.600	U	1200	768	533	392	300	237										
				D	0.144	0.225	0.324	0.441	0.576	0.729										
	10-2-43	5.4		C	1200	960	800	686	600	533										
				D	0.115	0.180	0.259	0.353	0.461	0.583										
1-1/4" x 1/8"	10-4-52	4.1	0.625	U	1250	800	556	408	313	247										
				D	0.115	0.180	0.259	0.353	0.461	0.583										
	10-2-52	4.5		C	1250	1000	833	714	625	556										
				D	0.092	0.144	0.207	0.282	0.369	0.467										
1-1/4" x 3/16"	10-4-53	6.1	0.938	U	1875	1200	833	612	469	370										
				D	0.115	0.180	0.259	0.353	0.461	0.583										
	10-2-53	6.8		C	1875	1500	1250	1071	938	833										
				D	0.092	0.144	0.207	0.282	0.369	0.467										
1-1/2" x 1/8"	10-4-62	4.8	0.900	U	1800	1152	800	588	450	356										
				D	0.096	0.150	0.216	0.294	0.384	0.486										
	10-2-62	5.3		C	1800	1440	1200	1029	900	800										
				D	0.077	0.120	0.173	0.235	0.307	0.389										
1-1/2" x 3/16"	10-4-63	7.2	1.350	U	2700	1728	1200	882	675	533										
				D	0.096	0.150	0.216	0.294	0.384	0.486										
	10-2-63	7.9		C	2700	2160	1800	1543	1350	1200										
				D	0.077	0.120	0.173	0.235	0.307	0.389										
1-3/4" x 3/16"	10-4-73	8.3	1.838	U	3675	2352	1633	1200	919	726										
				D	0.082	0.129	0.185	0.252	0.329	0.417										
	10-2-73	9.0		C	3675	2940	2450	2100	1838	1633										
				D	0.066	0.103	0.148	0.202	0.263	0.333										
2" x 3/16"	10-4-83	9.4	2.400	U	4800	3072	2133	1567	1200	948										
				D	0.072	0.113	0.162	0.221	0.288	0.365										
	10-2-83	10.1		C	4800	3840	3200	2743	2400	2133										
				D	0.058	0.090	0.130	0.176	0.230	0.292										
2-1/4" x 3/16"	10-4-93	10.5	3.038	U	6075	3888	2700	1984	1519	1200										
				D	0.064	0.100	0.144	0.196	0.256	0.324										
	10-2-93	11.2		C	6075	4860	4050	3471	3038	2700										
				D	0.051	0.080	0.115	0.157	0.205	0.259										
2-1/2" x 3/16"	10-4-103	11.6	3.750	U	7500	4800	3333	2449	1875	1481										
				D	0.058	0.090	0.130	0.176	0.230	0.292										
	10-2-103	12.3		C	7500	6000	5000	4286	3750	3333										
				D	0.046	0.072	0.104	0.141	0.184	0.233										

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-10 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	1 5/8	2 1/4	2 7/8	3 1/2	4 1/8	4 3/4	5 3/8	6	6 5/8	7 1/4	7 7/8	8 1/2	9 1/8	9 3/4	10 3/8	11	11 5/8	12 1/4
3/16" Bar	1 1/16	1 11/16	2 5/16	2 15/16	3 9/16	4 3/16	4 13/16	5 7/16	6 1/16	6 11/16	7 5/16	7 15/16	8 9/16	9 3/16	9 13/16	10 7/16	11 1/16	11 11/16	12 5/16
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	12 7/8	13 1/2	14 1/8	14 3/4	15 3/8	16	16 5/8	17 1/4	17 7/8	18 1/2	19 1/8	19 3/4	20 3/8	21	21 5/8	22 1/4	22 7/8	23 1/2	24 1/8
3/16" Bar	12 15/16	13 9/16	14 3/16	14 13/16	15 7/16	16 1/16	16 11/16	17 5/16	17 15/16	18 9/16	19 3/16	19 13/16	20 7/16	21 1/16	21 11/16	22 5/16	22 15/16	23 9/16	24 3/16
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	24 3/4	25 3/8	26	26 5/8	27 1/4	27 7/8	28 1/2	29 1/8	29 3/4	30 3/8	31	31 5/8	32 1/4	32 7/8	33 1/2	34 1/8	34 3/4	35 3/8	36
3/16" Bar	24 13/16	25 7/16	26 1/16	26 11/16	27 5/16	27 15/16	28 9/16	29 3/16	29 13/16	30 7/16	31 1/16	31 11/16	32 5/16	32 15/16	33 9/16	34 3/16	34 13/16	35 7/16	36 1/16