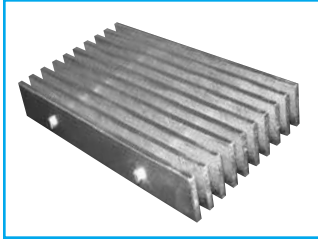


Aluminum Grating

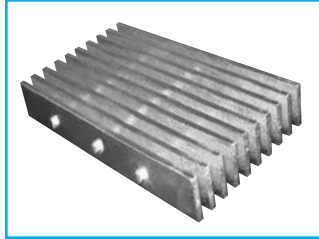
RECTANGULAR BAR SWAGE-LOCKED CLOSE MESH

1/2" Center to Center of Bearing Bars



8-SR-4

Cross Rods 4" C/C



8-SR-2

Cross Rods 2" C/C

PRESS-LOCKED CLOSE MESH

1/2" Center to Center of Bearing Bars



8-AP-4

Cross Bars 4" C/C



8-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"	
3/4" x 1/8"	8-4-32	3.0	0.281	U	563	360	250	184	141
				D	0.192	0.300	0.432	0.588	0.768
	8-2-32	3.4	0.281	C	563	450	375	321	281
				D	0.154	0.240	0.346	0.470	0.614
3/4" x 3/16"	8-4-33	4.4	0.422	U	844	540	375	276	211
				D	0.192	0.300	0.432	0.588	0.768
	8-2-33	4.7	0.422	C	844	675	563	482	422
				D	0.154	0.240	0.346	0.470	0.614
1" x 1/8"	8-4-42	3.9	0.500	U	1000	640	444	327	250
				D	0.144	0.225	0.324	0.441	0.576
	8-2-42	4.3	0.500	C	1000	800	667	571	500
				D	0.115	0.180	0.259	0.353	0.461
1" x 3/16"	8-4-43	5.8	0.750	U	1500	960	667	490	375
				D	0.144	0.225	0.324	0.441	0.576
	8-2-43	6.1	0.750	C	1500	1200	1000	857	750
				D	0.115	0.180	0.259	0.353	0.461
1-1/4" x 1/8"	8-4-52	4.9	0.781	U	1563	1000	694	510	391
				D	0.115	0.180	0.259	0.353	0.461
	8-2-52	5.2	0.781	C	1563	1250	1042	893	781
				D	0.092	0.144	0.207	0.282	0.369
1-1/4" x 3/16"	8-4-53	7.1	1.172	U	2344	1500	1042	765	586
				D	0.115	0.180	0.259	0.353	0.461
	8-2-53	7.4	1.172	C	2344	1875	1563	1339	1172
				D	0.092	0.144	0.207	0.282	0.369
1-1/2" x 1/8"	8-4-62	5.8	1.125	U	2250	1440	1000	735	563
				D	0.096	0.150	0.216	0.294	0.384
	8-2-62	6.1	1.125	C	2250	1800	1500	1286	1125
				D	0.077	0.120	0.173	0.235	0.307
1-1/2" x 3/16"	8-4-63	8.5	1.688	U	3375	2160	1500	1102	844
				D	0.096	0.150	0.216	0.294	0.384
	8-2-63	8.8	1.688	C	3375	2700	2250	1929	1688
				D	0.077	0.120	0.173	0.235	0.307
1-3/4" x 3/16"	8-4-73	9.8	2.297	U	4594	2940	2042	1500	1148
				D	0.082	0.129	0.185	0.252	0.329
	8-2-73	10.2	2.297	C	4594	3675	3063	2625	2297
				D	0.066	0.103	0.148	0.202	0.263
2" x 3/16"	8-4-83	11.2	3.000	U	6000	3840	2667	1959	1500
				D	0.072	0.113	0.162	0.221	0.288
	8-2-83	11.5	3.000	C	6000	4800	4000	3429	3000
				D	0.058	0.090	0.130	0.176	0.230
2-1/4" x 3/16"	8-4-93	12.6	3.797	U	7594	4860	3375	2480	1898
				D	0.064	0.100	0.144	0.196	0.256
	8-2-93	12.9	3.797	C	7594	6075	5063	4339	3797
				D	0.051	0.080	0.115	0.157	0.205
2-1/2" x 3/16"	8-4-103	13.9	4.688	U	9375	6000	4167	3061	2344
				D	0.058	0.090	0.130	0.176	0.230
	8-2-103	14.2	4.688	C	9375	7500	6250	5357	4688
				D	0.046	0.072	0.104	0.141	0.184

U = safe uniform load, psf

C = safe concentrated load, ptw

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.

SR/AP-8 PANEL WIDTH (inches)

Note: Includes 1/4" (1/8" each side) for extended cross rods on swage-locked (SR) and 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	21	22	23	24	25	26	27	28	29
1/8" Bar	7/8	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	1 7/8	1 9/8	1 11/8	1 5/4	1 13/8	1 15/8	1 7/4	1 17/8	1 9/4	1 19/8	1 21/8	1 23/8	1 11/4	1 25/8	1 27/8	1 13/4	1 29/8	1 31/8	1 33/8	1 35/8
3/16" Bar	15/16	1 1/16	1 1/8	1 1/4	1 1/2	1 5/16	1 3/8	1 7/16	1 1/2	1 9/16	1 5/8	1 13/16	1 3/4	1 15/16	1 7/8	1 17/16	1 9/8	1 19/16	1 21/16	1 23/16	1 11/8	1 25/16	1 27/16	1 13/8	1 29/16	1 31/16	1 33/16	1 35/16
No. of Bars	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
1/8" Bar	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2	2 5/8	2 3/4	2 7/8	2 7/8	2 9/8	2 11/8	2 13/8	2 15/8	2 7/4	2 17/8	2 9/4	2 19/8	2 21/8	2 23/8	2 11/4	2 25/8	2 27/8	2 13/4	2 29/8	2 31/8	2 33/8	2 35/8
3/16" Bar	1 15/16	1 1/16	1 1/8	1 1/4	1 1/2	1 5/16	1 3/8	1 7/16	1 1/2	1 9/16	1 5/8	1 13/16	1 3/4	1 15/16	1 7/8	1 17/16	1 9/8	1 19/16	1 21/16	1 23/16	1 11/8	1 25/16	1 27/16	1 13/8	1 29/16	1 31/16	1 33/16	1 35/16
No. of Bars	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72													
1/8" Bar	2 3/8	2 1/2	2 5/8	2 3/4	2 7/8	2 3/4	2 9/8	2 11/8	2 13/8	2 15/8	2 7/4	2 17/8	2 9/4	2 19/8	2 21/8	2 23/8	2 11/4	2 25/8	2 27/8	2 29/8	2 13/4	2 31/8	2 33/8	2 35/8	2 37/8	2 39/8	2 41/8	2 43/8
3/16" Bar	2 15/16	2 1/16	2 1/8	2 1/4	2 1/2	2 5/16	2 3/8	2 7/16	2 1/2	2 9/16	2 5/8	2 13/16	2 3/4	2 15/16	2 7/8	2 17/16	2 9/8	2 19/16	2 21/16	2 23/16	2 11/8	2 25/16	2 27/16	2 13/8	2 29/16	2 31/16	2 33/16	2 35/16