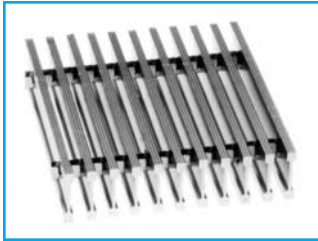


Aluminum Grating

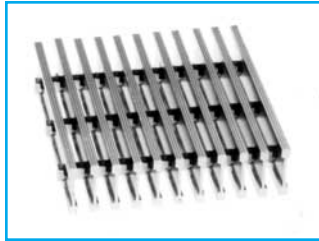
I-BAR SWAGE-LOCKED CLOSE-MESH

1/2" Center to Center of Bearing Bars



8-SI-4

Cross Rods 4" C/C



8-SI-2

Cross Rods 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"	7'-0"							
1" x 1/4"	8-4-44	4.2	0.750	U	1500	960	667	490	375	296	240	198								
	D	0.144		0.225	0.324	0.441	0.576	0.729	0.900	1.089										
	C	1500		1200	1000	857	750	667	600	545										
1-1/4" x 1/4"	8-4-54	5.0	1.172	U	2344	1500	1042	765	586	463	375	310	260							
	D	0.115		0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037									
	C	2344		1875	1563	1339	1172	1042	938	852	781									
1-1/2" x 1/4"	8-4-64	5.9	1.688	U	3375	2160	1500	1102	844	667	540	446	375	320	276					
	D	0.096		0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176							
	C	3375		2700	2250	1929	1688	1500	1350	1227	1125	1038	964							
1-3/4" x 1/4"	8-4-74	6.8	2.297	U	4594	2940	2042	1500	1148	907	735	607	510	435	375	287				
	D	0.082		0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.148						
	C	4594		3675	3063	2625	2297	2042	1838	1670	1531	1413	1313	1148						
2" x 1/4"	8-4-84	7.6	3.000	U	6000	3840	2667	1959	1500	1185	960	793	667	568	490	375	296			
	D	0.072		0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.012	1.152	1.458				
	C	6000		4800	4000	3429	3000	2667	2400	2182	2000	1846	1714	1500	1333					
2-1/4" x 1/4"	8-4-94	8.4	3.797	U	7594	4860	3375	2480	1898	1500	1215	1004	844	719	620	475	375			
	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	1.688				
	C	7594		6075	5063	4339	3797	3375	3038	2761	2531	2337	2170	1898	1688					
2-1/2" x 1/4"	8-4-104	9.3	4.688	U	9375	6000	4167	3061	2344	1852	1500	1240	1042	888	765	586	463			
	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					
	C	9375		7500	6250	5357	4688	4167	3750	3409	3125	2885	2679	2344	2083					
	8-2-104	9.7		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, plw

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.

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

Finish: Mill finish unless otherwise specified.

SI-8 PANEL WIDTH (inches)

Note: Includes 1/4" (1/8" each side) for extended cross rods on swage-locked (SI).

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1/4" Bar	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10
No. of Bars	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1/4" Bar	10 1/2	11	11 1/2	12	12 1/2	13	13 1/2	14	14 1/2	15	15 1/2	16	16 1/2	17	17 1/2	18	18 1/2	19	19 1/2
No. of Bars	40	41	42	43	44	45	46	47	48	49	50	51	52	53					
1/4" Bar	20	20 1/2	21	21 1/2	22	22 1/2	23	23 1/2	24	24 1/2	25	25 1/2	26	26 1/2					