

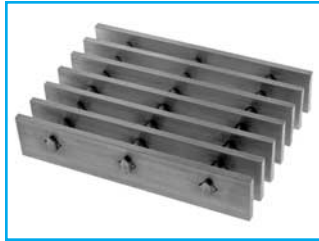
# Aluminum Grating

## RECTANGULAR BAR SWAGE-LOCKED CLOSE MESH

11/16" Center to Center of Bearing Bars



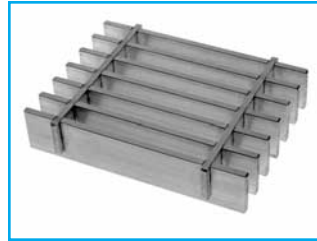
**11-SR-4**  
Cross Rods 4" C/C



**11-SR-2**  
Cross Rods 2" C/C

## PRESS-LOCKED CLOSE MESH

11/16" Center to Center of Bearing Bars



**11-AP-4**  
Cross Bars 4" C/C



**11-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)	SPAN (Length of Bearing Bar)				
					2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
3/4" x 1/8"	11-4-32	2.3	0.205	U	409	262	182	134	102
				D	0.192	0.300	0.432	0.588	0.768
	11-2-32	2.6	0.205	C	409	327	273	234	205
				D	0.154	0.240	0.346	0.470	0.614
3/4" x 3/16"	11-4-33	3.3	0.307	U	614	393	273	200	153
				D	0.192	0.300	0.432	0.588	0.768
	11-2-33	3.6	0.307	C	614	491	409	351	307
				D	0.154	0.240	0.346	0.470	0.614
1" x 1/8"	11-4-42	3.0	0.364	U	727	465	323	237	182
				D	0.144	0.225	0.324	0.441	0.576
	11-2-42	3.3	0.364	C	727	582	485	416	364
				D	0.115	0.180	0.259	0.353	0.461
1" x 3/16"	11-4-43	4.3	0.545	U	1091	698	485	356	273
				D	0.144	0.225	0.324	0.441	0.576
	11-2-43	4.6	0.545	C	1091	873	727	623	545
				D	0.115	0.180	0.259	0.353	0.461
1-1/4" x 1/8"	11-4-52	3.6	0.568	U	1136	727	505	371	284
				D	0.115	0.180	0.259	0.353	0.461
	11-2-52	4.0	0.568	C	1136	909	758	649	568
				D	0.092	0.144	0.207	0.282	0.369
1-1/4" x 3/16"	11-4-53	5.3	0.852	U	1705	1091	758	557	426
				D	0.115	0.180	0.259	0.353	0.461
	11-2-53	5.6	0.852	C	1705	1364	1136	974	852
				D	0.092	0.144	0.207	0.282	0.369
1-1/2" x 1/8"	11-4-62	4.3	0.818	U	1636	1047	727	534	409
				D	0.096	0.150	0.216	0.294	0.384
	11-2-62	4.6	0.818	C	1636	1309	1091	935	818
				D	0.077	0.120	0.173	0.235	0.307
1-1/2" x 3/16"	11-4-63	6.3	1.227	U	2455	1571	1091	801	614
				D	0.096	0.150	0.216	0.294	0.384
	11-2-63	6.6	1.227	C	2455	1964	1636	1403	1227
				D	0.077	0.120	0.173	0.235	0.307
1-3/4" x 3/16"	11-4-73	7.3	1.670	U	3341	2138	1485	1091	835
				D	0.082	0.129	0.185	0.252	0.329
	11-2-73	7.6	1.670	C	3341	2673	2227	1909	1670
				D	0.066	0.103	0.148	0.202	0.263
2" x 3/16"	11-4-83	8.3	2.182	U	4364	2793	1939	1425	1091
				D	0.072	0.113	0.162	0.221	0.288
	11-2-83	8.6	2.182	C	4364	3491	2909	2494	2182
				D	0.058	0.090	0.130	0.176	0.230
2-1/4" x 3/16"	11-4-93	9.3	2.761	U	5523	3535	2455	1803	1381
				D	0.064	0.100	0.144	0.196	0.256
	11-2-93	9.6	2.761	C	5523	4418	3682	3156	2761
				D	0.051	0.080	0.115	0.157	0.205
2-1/2" x 3/16"	11-4-103	10.3	3.409	U	6818	4364	3030	2226	1705
				D	0.058	0.090	0.130	0.176	0.230
	11-2-103	10.6	3.409	C	6818	5455	4545	3896	3409
				D	0.046	0.072	0.104	0.141	0.184

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.

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