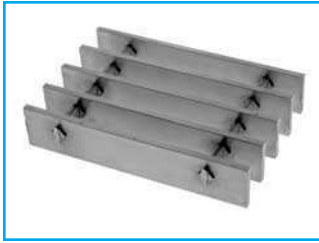


# Aluminum Grating

## RECTANGULAR BAR SWAGE-LOCKED

15/16" Center to Center of Bearing Bars



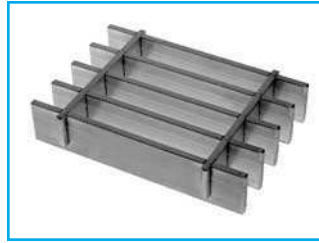
**15-SR-4**  
Cross Rods 4" C/C



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

## PRESS-LOCKED

15/16" Center to Center of Bearing Bars



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



**15-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"
3/4" x 1/8"	15-4-32	SR	1.8	U	300	192	133	98
				D	0.192	0.300	0.432	0.588
	15-2-32	AP	2.1	C	300	240	200	171
				D	0.154	0.240	0.346	0.470
3/4" x 3/16"	15-4-33	SR	2.5	U	450	288	200	147
				D	0.192	0.300	0.432	0.588
	15-2-33	AP	2.8	C	450	360	300	257
				D	0.154	0.240	0.346	0.470
1" x 1/8"	15-4-42	SR	2.3	U	533	341	237	174
				D	0.144	0.225	0.324	0.441
	15-2-42	AP	2.6	C	533	427	356	305
				D	0.115	0.180	0.259	0.353
1" x 3/16"	15-4-43	SR	3.3	U	800	512	356	261
				D	0.144	0.225	0.324	0.441
	15-2-43	AP	3.6	C	800	640	533	457
				D	0.115	0.180	0.259	0.353
1-1/4" x 1/8"	15-4-52	SR	2.8	U	833	533	370	272
				D	0.115	0.180	0.259	0.353
	15-2-52	AP	3.1	C	833	667	556	476
				D	0.092	0.144	0.207	0.282
1-1/4" x 3/16"	15-4-53	SR	4.0	U	1250	800	556	408
				D	0.115	0.180	0.259	0.353
	15-2-53	AP	5.0	C	1250	1000	833	714
				D	0.092	0.144	0.207	0.282
1-1/2" x 1/8"	15-4-62	SR	3.3	U	1200	768	533	392
				D	0.096	0.150	0.216	0.294
	15-2-62	AP	3.6	C	1200	960	800	686
				D	0.077	0.120	0.173	0.235
1-1/2" x 3/16"	15-4-63	SR	4.7	U	1800	1152	800	588
				D	0.096	0.150	0.216	0.294
	15-2-63	AP	5.8	C	1800	1440	1200	1029
				D	0.077	0.120	0.173	0.235
1-3/4" x 3/16"	15-4-73	SR	5.5	U	2450	1568	1089	800
				D	0.082	0.129	0.185	0.252
	15-2-73	AP	6.5	C	2450	1960	1633	1400
				D	0.066	0.103	0.148	0.202
2" x 3/16"	15-4-83	SR	6.2	U	3200	2048	1422	1045
				D	0.072	0.113	0.162	0.221
	15-2-83	AP	7.2	C	3200	2560	2133	1829
				D	0.058	0.090	0.130	0.176
2-1/4" x 3/16"	15-4-93	SR	6.9	U	4050	2592	1800	1322
				D	0.064	0.100	0.144	0.196
	15-2-93	AP	8.0	C	4050	3240	2700	2314
				D	0.051	0.080	0.115	0.157
2-1/2" x 3/16"	15-4-103	SR	7.7	U	5000	3200	2222	1633
				D	0.058	0.090	0.130	0.176
	15-2-103	AP	8.7	C	5000	4000	3333	2857
				D	0.046	0.072	0.104	0.141

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