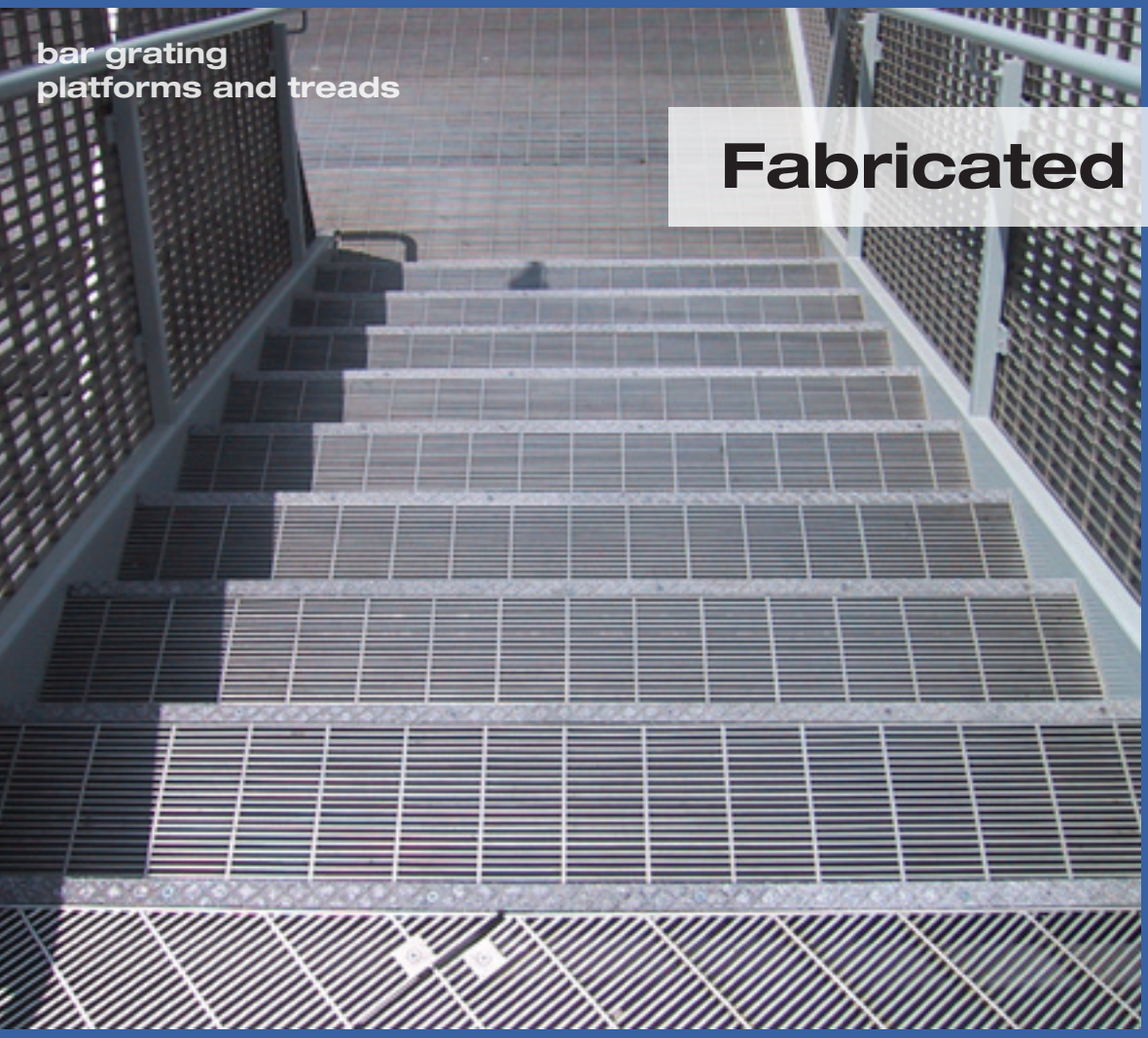
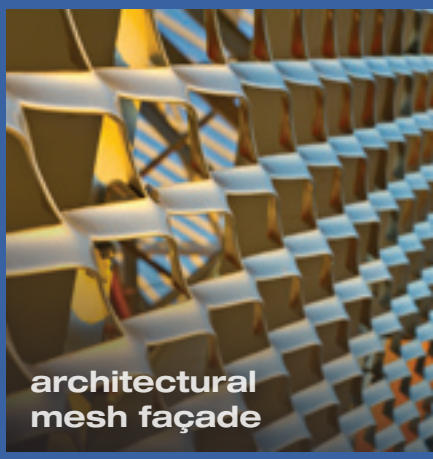
AMICO®

Fabricated Products





Alabama Metal Industries Corporation (AMICO) is a leading international manufacturer and fabricator of high quality electro-forged bar grating, expanded metal, safety grating, swaged and press locked grating, riveted grating, custom heavy-duty grating, fiberglass grating and structures and perforated metal. With over a century of expertise, AMICO has a superior understanding of manufacturing techniques, capabilities and applications associated with these products. As both a manufacturer and fabricator of industrial and architectural products, our main objective is to find the correct product to help our customers achieve the right balance among functionality, performance, aesthetics and cost of ownership.

AMICO is strategically located across the United States, Canada, England and Germany. Many of our state-of-the-art facilities have had a long tradition of manufacturing a wide variety of products for their respective markets. Our strengths stem from a committed, skilled and knowledgeable workforce coupled with world class machinery—providing us with unsurpassed engineering and technical support capabilities.

FABRICATION CAPABILITIES

AMICO offers a full range of custom fabrication services for your needs. Our fabrication capabilities include, but not limited to:

- Welding (manual and robotic)
- Punching
- Sawing
- Shearing
- Rolling
- Notching
- Drilling
- Forming
- CNC burning
- CNC plasma cutting
- Press brake

FINISHES

Carbon Steel

- Mill
- Painted
  - > Shop Coat
  - > Powder Coat
  - > Fluoropolymer
- Galvanized
- Epoxy Grit
- Non-slip coating

Stainless Steel

- Mill
- Sandblasted
- Passivated
- Electro-polished

Aluminum

- Mill
- Anodizing
- Painted
  - > Powder coat
  - > Fluoropolymer

ENGINEERING AND DETAILING SERVICES

AMICO's Engineering and Detailing departments can provide turnkey service on projects, utilizing FTP sites to turn your structural drawings into detailed approval drawings for all fabricated products. Our fabrication department, with its rigorous quality control procedures, ensures that the products are made to specification. We have extensive design experience using AutoCAD and 3D Modeling that include SDS2 and TEKLA. AMICO sales and engineering services include:

- Project cost estimating
- Product specific engineering
- Approval and erection drawings
- Technical manuals and drawings
- Logistics planning
- Project management

PRODUCTS WE FABRICATE

- Bar grating
- Expanded metal
- Fiberglass grating and structural systems
- Safety grating
- Perforated metal

Contents

NEW!

Use our new bar grating calculator at **www.amico-grating.com/calculator**

♦ **Steel Bar Grating 2-9**

♦ **Stainless Steel Bar Grating 10-11**

♦ **AAR Approved (Railroad) Grating 12**

♦ **Heavy-Duty Steel Bar Grating 13-23**

♦ **Custom Grating 24**

♦ **Riveted Grating 25-31**

Riv-Dexteel® Bridge Deck Grating 30-31

♦ **Aluminum Bar Grating 32-45**

Duo-Grip™ Extruded 45

♦ **Stair Treads 46-56**

♦ **Safety Grating 57-76**

Diamond Grip® 57-64

Safety Grip® 65-70

Safety Tread® 71-75

Safety Grating Stair Treads 76

Safety Grating Installation Accessories 77-78

♦ **Fabricated Fiber-Reinforced Plastic (FRP) 79-86**

Fabrication Services 79

GatorGrate™ Open Molded Grating 80-81

GatorPlate™ and Covered Molded Grating 81

GatorDeck™ Pultruded Grating 82-83

GatorGrate™ and GatorDeck™ Stair Treads 84

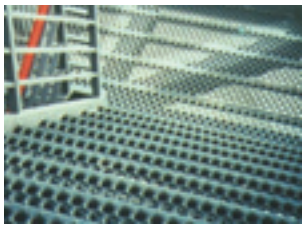
Fiberglass Cable Tray Systems 85-86

♦ **Expanded Metal 87-94**

♦ **Perforated Metal 95-104**

Steel Bar Grating

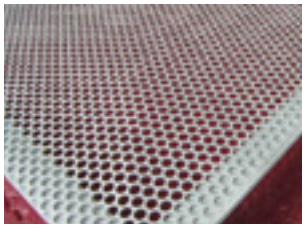
Riveted Grating



Stair Treads

Fiberglass Grating

Expanded Metal



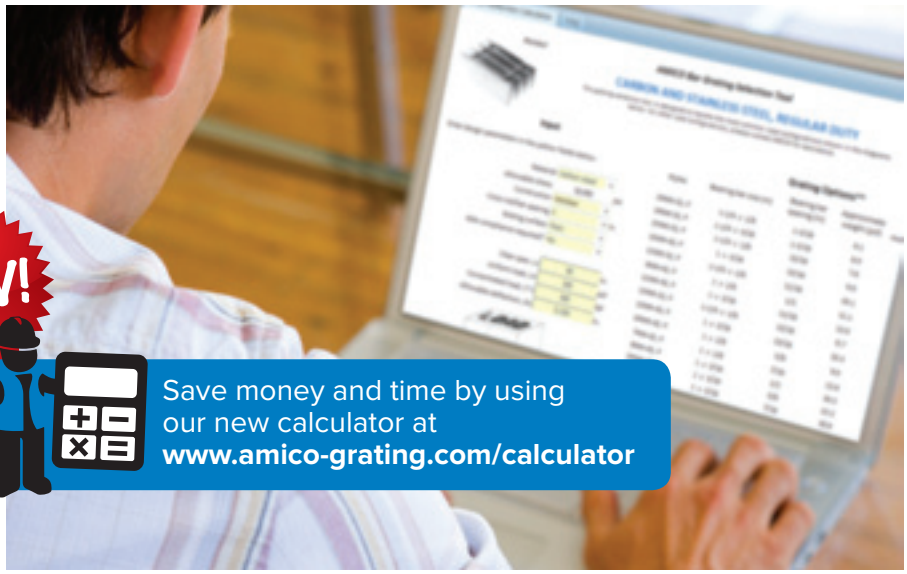
Perforated Metal

Steel Bar Grating

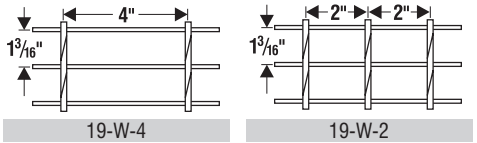
AMICO Launches Its Industry-Leading Online Bar Grating Design Tools

These new calculators help you save time and eliminate risk!

If you are uncertain about which type of grating to use, try our online calculator. You can enter your project specifics and our calculator will recommend the appropriate grating. This powerful online tool allows you to compare several grating alternatives so you can optimize for weight, cost, or both. It saves you valuable time by eliminating tedious manual calculations and eliminates the risk of errors.

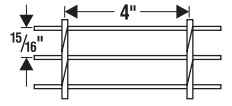


WELDED STEEL BAR GRATING

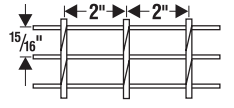


19-W-4

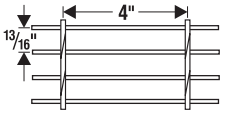
19-W-2



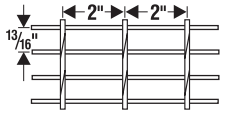
15-W-4



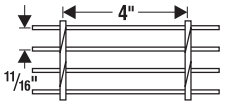
15-W-2



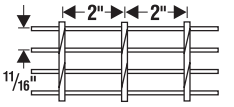
13-W-4



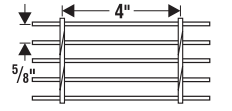
13-W-2



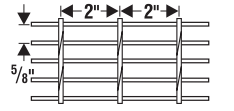
11-W-4



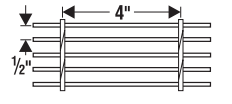
11-W-2



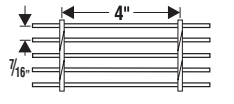
10-W-4



10-W-2



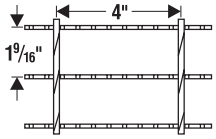
8-W-4



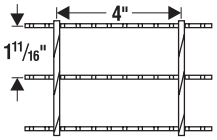
7-W-4

Standard panel widths are 2'-0 & 3'-0. 4'-0 panel widths on some styles of welded and press-locked grating are available upon request.

STEEL WELDED RAILROAD GRATING (AAR APPROVED)

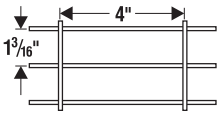


25-W-4

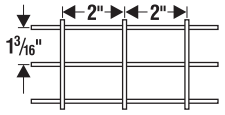


27-W-4

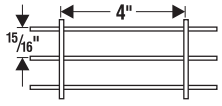
PRESS-LOCKED STEEL BAR GRATING



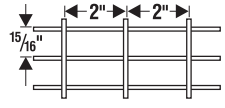
19-P-4



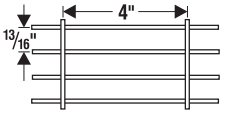
19-P-2



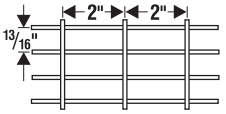
15-P-4



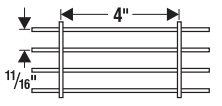
15-P-2



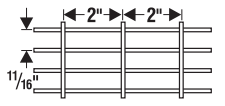
13-P-4



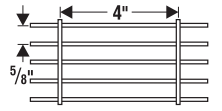
13-P-2



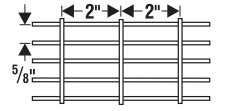
11-P-4



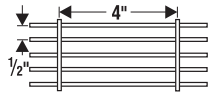
11-P-2



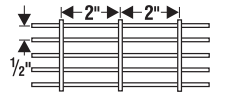
10-P-4



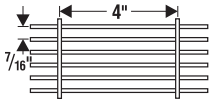
10-P-2



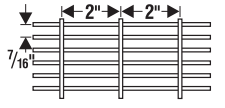
8-P-4



8-P-2



7-P-4



7-P-2

Meets NAAMM's Metal Bar Grating Manual MBG 531

Steel Bar Grating

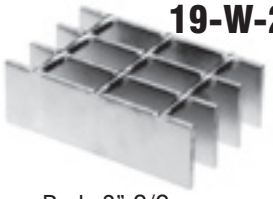
Use our new bar grating calculator at **www.amico-grating.com/calculator**

WELDED (W) 1-3/16" C/C Bearing Bars

19-W-4

Cross Rods 4" C/C

19-W-2

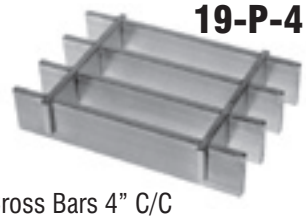


Cross Rods 2" C/C

NON-SERRATED & SERRATED

PRESS-LOCKED (P) 1-3/16" C/C Bearing Bars

19-P-4



Cross Bars 4" C/C

19-P-2

Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: carbon steel

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum 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.

Fabricated to ANSI/NAAMM standards

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	19-W-4	3.9	0.118	U	355	227	158	116	89	70							
				D	0.099	0.155	0.223	0.304	0.397	0.503							
	19-P-4	4.3		C	355	284	237	203	178	158							
	19-P-2	5.2		D	0.079	0.124	0.179	0.243	0.318	0.402							
3/4" x 3/16" Non-Serrated Only	19-W-4	5.6	0.178	U	533	341	237	174	133	105							
				D	0.099	0.155	0.223	0.304	0.397	0.503							
	19-P-4	6.4		C	533	426	355	305	266	237							
	19-P-2	7.8		D	0.079	0.124	0.179	0.243	0.318	0.402							
1" x 1/8"	19-W-4	5.0	0.211	U	632	404	281	206	158	125	101	84					
	19-W-2	5.5		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563					
	19-P-4	5.4		C	632	505	421	361	316	281	253	230					
	19-P-2	6.3		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451					
1" x 3/16"	19-W-4	7.2	0.316	U	947	606	421	309	237	187	152	125					
	19-W-2	7.8		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563					
	19-P-4	8.1		C	947	758	632	541	474	421	379	344					
	19-P-2	9.5		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451					
1-1/4" x 1/8"	19-W-4	6.1	0.329	U	987	632	439	322	247	195	158	130	110	93	81		
	19-W-2	6.6		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	19-P-4	6.8		C	987	789	658	564	493	439	395	359	329	304	282		
	19-P-2	8.1		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	19-W-4	8.9	0.493	U	1480	947	658	483	370	292	237	196	164	140	121		
	19-W-2	9.5		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	19-P-4	10.2		C	1480	1184	987	846	740	658	592	538	493	455	423		
	19-P-2	12.1		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/2" x 1/8"	19-W-4	7.2	0.474	U	1421	909	632	464	355	281	227	188	158	135	116	89	70
	19-W-2	7.7		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	19-P-4	7.9		C	1421	1137	947	812	711	632	568	517	474	437	406	355	316
	19-P-2	9.2		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	19-W-4	10.5	0.711	U	2132	1364	947	696	533	421	341	282	237	202	174	133	105
	19-W-2	11.2		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	19-P-4	11.8		C	2132	1705	1421	1218	1066	947	853	775	711	656	609	533	474
	19-P-2	13.8		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	19-W-4	12.2	0.967	U	2901	1857	1289	947	725	573	464	384	322	275	237	181	143
	19-W-2	12.8		D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	19-P-4	13.5		C	2901	2321	1934	1658	1451	1289	1161	1055	967	893	829	725	645
	19-P-2	15.4		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	19-W-4	13.9	1.263	U	3789	2425	1684	1237	947	749	606	501	421	359	309	237	187
	19-W-2	14.5		D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	19-P-4	15.2		C	3789	3032	2526	2165	1895	1684	1516	1378	1263	1166	1083	947	842
	19-P-2	17.1		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"	19-W-4	15.5	1.599	U	4796	3069	2132	1566	1199	947	767	634	533	454	392	300	237
	19-W-2	16.1		D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	19-P-4	16.8		C	4796	3837	3197	2741	2398	2132	1918	1744	1599	1476	1370	1199	1066
	19-P-2	18.7		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	19-W-4	17.2	1.974	U	5921	3789	2632	1933	1480	1170	947	783	658	561	483	370	292
	19-W-2	17.8		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	19-P-4	18.5		C	5921	4737	3947	3383	2961	2632	2368	2153	1974	1822	1692	1480	1316
	19-P-2	20.4		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

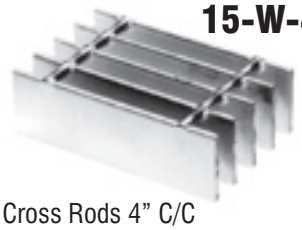
W/P-19 PANEL WIDTH (inches) Note: P-Press-Locked cross bars typically extend 1/8" each side. W-Welded cross rods may extend 1/8" each side. Panel widths shown below do not include these extensions.

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

Steel Bar Grating

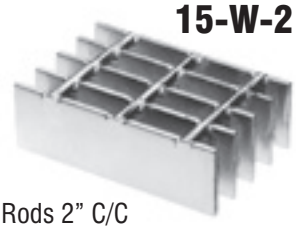
WELDED (W) 15/16" C/C Bearing Bars

15-W-4



Cross Rods 4" C/C

15-W-2

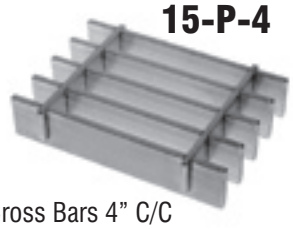


Cross Rods 2" C/C

NON-SERRATED & SERRATED

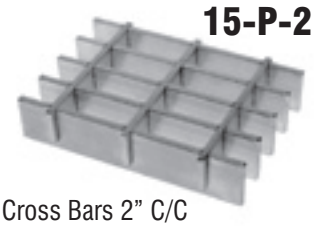
PRESS-LOCKED (P) 15/16" C/C Bearing Bars

15-P-4



Cross Bars 4" C/C

15-P-2



Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: carbon steel

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum 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.

Fabricated to ANSI/NAAMM standards

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	15-W-4	4.7	0.150	U	450	288	200	147	113	89							
				D	0.099	0.155	0.223	0.304	0.397	0.503							
	15-P-4	5.1		C	450	360	300	257	225	200							
	15-P2	6.1		D	0.079	0.124	0.179	0.243	0.318	0.402							
3/4" x 3/16" Non-Serrated Only	15-W-4	6.9	0.225	U	675	432	300	220	169	133	108						
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	15-P-4	7.7		C	675	540	387	386	338	300	270						
	15-P-2	9.1		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497						
1" x 1/8"	15-W-4	6.1	0.267	U	800	512	356	261	200	158	128	106	89				
	15-W-2	6.7		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	15-P-4	6.5		C	800	640	533	457	400	356	320	291	267				
	15-P-2	7.5		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1" x 3/16"	15-W-4	8.9	0.400	U	1200	768	533	392	300	237	192	159	133				
	15-W-2	9.6		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	15-P-4	9.8		C	1200	960	800	686	600	533	480	436	400				
	15-P-2	11.2		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1-1/4" x 1/8"	15-W-4	7.5	0.417	U	1250	800	556	408	313	247	200	165	139	118	102		
	15-W-2	8.1		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	15-P-4	8.2		C	1250	1000	833	714	625	556	500	455	417	385	357		
	15-P-2	9.5		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	15-W-4	11.0	0.625	U	1875	1200	833	612	469	370	300	248	208	178	153		
	15-W-2	11.6		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	15-P-4	12.3		C	1875	1500	1250	1071	938	833	750	682	625	577	536		
	15-P-2	14.2		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/2" x 1/8"	15-W-4	8.9	0.600	U	1800	1152	800	588	450	356	288	238	200	170	147	113	89
	15-W-2	9.4		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	15-P-4	9.6		C	1800	1440	1200	1029	900	800	720	655	600	554	514	450	400
	15-P-2	10.9		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	15-W-4	13.1	0.900	U	2700	1728	1200	882	675	533	432	357	300	256	220	169	133
	15-W-2	13.7		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	15-P-4	14.4		C	2700	2160	1800	1543	1350	1200	1080	982	900	831	771	675	600
	15-P-2	16.3		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	15-W-4	15.2	1.225	U	3675	2352	1633	1200	919	726	588	486	408	348	300	230	181
	15-W-2	15.8		D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	15-P-4	16.5		C	3675	2940	2450	2100	1838	1633	1470	1336	1225	1131	1050	919	817
	15-P-2	18.4		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	15-W-4	17.3	1.600	U	4800	3072	2133	1567	1200	948	768	635	533	454	392	300	237
	15-W-2	17.9		D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	15-P-4	18.6		C	4800	3840	3200	2743	2400	2133	1920	1745	1600	1477	1371	1200	1067
	15-P-2	20.5		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"	15-W-4	19.4	2.025	U	6075	3888	2700	1984	1519	1200	972	803	675	575	496	380	300
	15-W-2	20.0		D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	15-P-4	20.7		C	6075	4860	4050	3471	3038	2700	2430	2209	2025	1869	1736	1519	1350
	15-P-2	22.6		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	15-W-4	21.4	2.500	U	7500	4800	3333	2449	1875	1481	1200	992	833	710	612	469	370
	15-W-2	22.0		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	15-P-4	22.7		C	7500	6000	5000	4286	3750	3333	3000	2727	2500	2308	2143	1875	1667
	15-P-2	24.7		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

W/P-15 PANEL WIDTH (inches)

Note: P-Press Locked cross bars typically extend 1/8" each side. W-Welded cross rods may extend 1/8" each side. Panel widths shown below do not include these extensions.

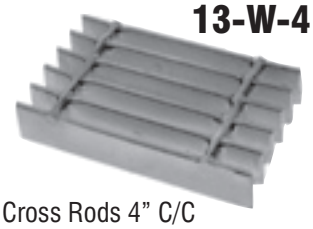
No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1/8" Bar	1 1/16	2	2 15/16	3 7/8	4 13/16	5 3/4	6 11/16	7 5/8	8 9/16	9 1/2	10 7/16	11 3/8	12 5/16	13 1/4	14 3/16	15 1/8	16 1/16	17	17 15/16	18 7/8
3/16" Bar	1 1/8	2 1/16	3	3 15/16	4 7/8	5 13/16	6 3/4	7 11/16	8 5/8	9 9/16	10 1/2	11 7/16	12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

Steel Bar Grating Close-Mesh

Use our new bar grating calculator at **www.amico-grating.com/calculator**

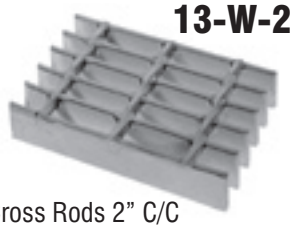
WELDED (W) 13/16" C/C Bearing Bars

13-W-4



Cross Rods 4" C/C

13-W-2

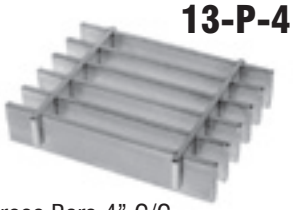


Cross Rods 2" C/C

NON-SERRATED & SERRATED

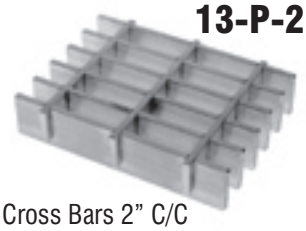
PRESS-LOCKED (P) 13/16" C/C Bearing Bars

13-P-4



Cross Bars 4" C/C

13-P-2



Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: carbon steel

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum 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.

Fabricated to ANSI/NAAMM standards

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	13-W-4	5.3	0.173	U	519	332	231	170	130	103							
				D	0.099	0.155	0.223	0.304	0.397	0.503							
	13-P-4	5.8		C	519	415	346	297	260	231							
	13-P-2	6.7		D	0.079	0.124	0.179	0.243	0.318	0.402							
3/4" x 3/16" Non-Serrated Only	13-W-4	7.8	0.260	U	779	498	346	254	195	154	125						
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	13-P-4	8.6		C	779	623	519	445	389	346	312						
	13-P-2	10.1		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497						
1" x 1/8"	13-W-4	6.5	0.308	U	923	591	410	301	231	182	148	122	103				
	13-W-2	7.5		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	13-P-4	7.4		C	923	738	615	527	462	410	369	336	308				
	13-P-2	8.3		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1" x 3/16"	13-W-4	10.2	0.462	U	1385	886	615	452	346	274	222	183	154				
	13-W-2	10.8		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	13-P-4	11.0		C	1385	1108	923	791	692	615	554	503	462				
	13-P-2	12.4		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1-1/4" x 1/8"	13-W-4	8.5	0.481	U	1442	923	641	471	361	285	231	191	160	137	118		
	13-W-2	9.1		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	13-P-4	9.3		C	1442	1154	962	824	721	641	577	524	481	444	412		
	13-P-2	10.5		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	13-W-4	12.6	0.721	U	2163	1385	962	706	541	427	346	286	240	205	177		
	13-W-2	13.2		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	13-P-4	13.9		C	2163	1731	1442	1236	1082	962	865	787	721	666	618		
	13-P-2	15.8		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/2" x 1/8"	13-W-4	10.1	0.692	U	2077	1329	923	678	519	410	332	275	231	197	170	130	103
	13-W-2	10.7		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	13-P-4	10.9		C	2077	1662	1385	1187	1038	923	831	755	692	639	593	519	462
	13-P-2	12.1		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	13-W-4	15.0	1.038	U	3115	1994	1385	1017	779	615	498	412	346	295	254	195	154
	13-W-2	15.6		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	13-P-4	16.3		C	3115	2492	2077	1780	1558	1385	1246	1133	1038	959	890	779	692
	13-P-2	18.2		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	13-W-4	17.4	1.413	U	4240	2714	1885	1385	1060	838	678	561	471	401	346	265	209
	13-W-2	18.0		D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	13-P-4	18.7		C	4240	3392	2827	2423	2120	1885	1696	1542	1413	1305	1212	1060	942
	13-P-2	20.6		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	13-W-4	19.8	1.846	U	5538	3545	2462	1808	1385	1094	886	732	615	524	452	346	274
	13-W-2	20.4		D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	13-P-4	21.1		C	5538	4431	3692	3165	2769	2462	2215	2014	1846	1704	1582	1385	1231
	13-P-2	23.0		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"	13-P-4	23.5	2.337	U	7010	4486	3115	2289	1752	1385	1122	927	779	664	572	438	346
				D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
				C	7010	5608	4673	4005	3505	3115	2804	2549	2337	2157	2003	1752	1558
	13-P-2	25.4		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	13-P-4	25.9	2.885	U	8654	5538	3846	2826	2163	1709	1385	1144	962	819	706	541	427
				D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
				C	8654	6923	5769	4945	4327	3846	3462	3147	2885	2663	2473	2163	1923
	13-P-2	27.8		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

W/P-13 PANEL WIDTH (inches)

Note: P-Press-Locked cross bars typically extend 1/8" each side. W-Welded cross rods may extend 1/8" each side. Panel widths shown below do not include these extensions.

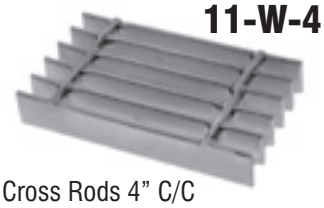
No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1/8" Bar	15/16	1 3/4	2 9/16	3 3/8	4 3/16	5	5 13/16	6 5/8	7 7/16	8 1/4	9 1/16	9 7/8	10 11/16	11 1/2	12 5/16	13 1/8	13 15/16	14 3/4	15 9/16	16 3/8
3/16" Bar	1	1 13/16	2 5/8	3 7/16	4 1/4	5 1/16	5 7/8	6 11/16	7 1/2	8 5/16	9 1/8	9 15/16	10 3/4	11 9/16	12 3/8	13 3/16	14	14 13/16	15 5/8	16 7/16
No. of Bars	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
1/8" Bar	17 3/16	18	18 13/16	19 5/8	20 7/16	21 1/4	22 1/16	22 7/8	23 11/16	24 1/2	25 5/16	26 1/8	26 15/16	27 3/4	28 9/16	29 3/8	30 3/16	31	31 13/16	32 5/8
3/16" Bar	17 1/4	18 1/16	18 7/8	19 11/16	20 1/2	21 5/16	22 1/8	22 15/16	23 3/4	24 9/16	25 3/8	26 3/16	27	27 13/16	28 5/8	29 7/16	30 1/4	31 1/16	31 7/8	32 11/16
No. of Bars	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
1/8" Bar	33 7/16	34 1/4	35 1/16	35 7/8	36 11/16	37 1/2	38 5/16	39 1/8	39 15/16	40 3/4	41 9/16	42 3/8	43 3/16	44	44 13/16	45 5/8	46 7/16	47 1/4	48 1/16	
3/16" Bar	33 1/2	34 5/16	35 1/8	35 15/16	36 3/4	37 9/16	38 3/8	39 3/16	40	40 13/16	41 5/8	42 7/16	43 1/4	44 1/16	44 7/8	45 11/16	46 1/2	47 5/16	48 1/8	

Widths in yellow available for Press-Locked grating only

Steel Bar Grating Close-Mesh

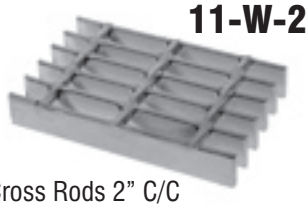
WELDED (W) 11/16" C/C Bearing Bars

11-W-4



Cross Rods 4" C/C

11-W-2

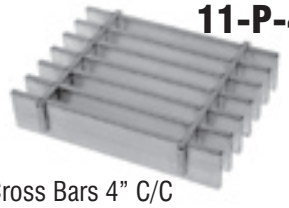


Cross Rods 2" C/C

NON-SERRATED & SERRATED

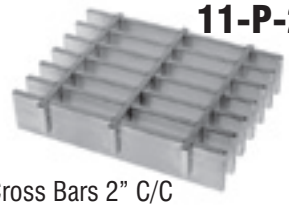
PRESS-LOCKED (P) 11/16" C/C Bearing Bars

11-P-4



Cross Bars 4" C/C

11-P-2



Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: carbon steel

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum 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.

Fabricated to ANSI/NAAMM standards

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	11-W-4	6.2	0.205	U	614	393	273	200	153	121	98						
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	11-P-4	6.6		C	614	491	409	351	307	273	245						
	11-P-2	7.6		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497						
3/4" x 3/16" Non-Serrated Only	11-W-4	9.1	0.307	U	920	589	409	301	230	182	147						
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	11-P-4	9.9		C	920	736	614	526	460	409	368						
	11-P-2	11.3		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497						
1" x 1/8"	11-W-4	8.1	0.364	U	1091	698	485	356	273	215	175	144	121				
	11-W-2	8.6		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	11-P-4	8.5		C	1091	873	727	623	545	485	436	397	364				
	11-P-2	9.4		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1" x 3/16"	11-W-4	11.9	0.545	U	1636	1047	727	534	409	323	262	216	182	155			
	11-W-2	12.5		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670	0.787			
	11-P-4	12.7		C	1636	1309	1091	935	818	727	655	595	545	503			
	11-P-2	14.2		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629			
1-1/4" x 1/8"	11-W-4	10.0	0.568	U	1705	1091	758	557	426	337	273	225	189	161	139		
	11-W-2	10.5		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	11-P-4	10.7		C	1705	1364	1136	974	852	758	682	620	568	524	487		
	11-P-2	12.0		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	11-W-4	14.7	0.852	U	2557	1636	1136	835	639	505	409	338	284	242	209	160	
	11-W-2	15.3		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	
	11-P-4	16.0		C	2557	2045	1705	1461	1278	1136	1023	930	852	787	731	639	
	11-P-2	17.9		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.763	
1-1/2" x 1/8"	11-W-4	11.9	0.818	U	2455	1571	1091	801	614	485	393	325	273	232	200	153	121
	11-W-2	12.4		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	11-P-4	12.6		C	2455	1964	1636	1403	1227	1091	982	893	818	755	701	614	545
	11-P-2	13.9		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	11-W-4	17.5	1.227	U	3682	2356	1636	1202	920	727	589	487	409	349	301	230	182
	11-W-2	18.1		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	11-P-4	18.8		C	3682	2945	2455	2104	1841	1636	1473	1339	1227	1133	1052	920	818
	11-P-2	20.7		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	11-W-4	20.4	1.670	U	5011	3207	2227	1636	1253	990	802	663	557	474	409	313	247
	11-W-2	21.0		D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	11-P-4	21.7		C	5011	4009	3341	2864	2506	2227	2005	1822	1670	1542	1432	1253	1114
	11-P-2	23.6		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	11-W-4	23.2	2.182	U	6545	4189	2909	2137	1636	1293	1047	866	727	620	534	409	323
	11-W-2	23.8		D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	11-P-4	24.5		C	6545	5236	4364	3740	3273	2909	2618	2380	2182	2014	1870	1636	1455
	11-P-2	26.4		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"	11-W-4	26.0	2.761	U	8284	5302	3682	2705	2071	1636	1325	1095	920	784	676	518	409
	11-W-2	26.6		D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	11-P-4	27.3		C	8284	6627	5523	4734	4142	3682	3314	3012	2761	2549	2367	2071	1841
	11-P-2	29.2		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	11-W-4	28.8	3.409	U	10227	6545	4545	3340	2557	2020	1636	1352	1136	968	835	639	505
	11-W-2	29.4		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	11-P-4	30.1		C	10227	8182	6818	5844	5114	4545	4091	3719	3409	3147	2922	2557	2273
	11-P-2	32.0		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

W/P-11 PANEL WIDTH (inches)

Note: P-Press-Locked cross bars typically extend 1/8" each side. W-Welded cross rods may extend 1/8" each side. Panel widths shown below do not include these extensions.

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	30	31	32
1/8" Bar	1 3/16	1 1/2	2 3/16	2 7/8	3 3/16	4 1/4	4 15/16	5 5/8	6 5/16	7	7 11/16	8 3/8	9 1/16	9 3/4	10 7/16	11 1/8	11 13/16	12 1/2	13 3/16	13 7/8	14 9/16	15 1/4	15 15/16	16 5/8	17 5/16	18	18 1/16	19 3/8	20 1/16	20 3/4	21 7/16
3/16" Bar	7/8	1 1/16	2 1/4	2 15/16	3 5/8	4 5/16	5	5 11/16	6 3/8	7 1/16	7 3/4	8 7/16	9 1/8	9 13/16	10 1/2	11 3/16	11 7/8	12 9/16	13 1/4	13 15/16	14 5/8	15 5/16	16	16 11/16	17 3/8	18 1/16	18 3/4	19 7/16	20 1/8	20 13/16	21 1/2
No. of Bars	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	58	59	60	61	62	63
1/8" Bar	22 1/8	22 13/16	23 1/2	24 3/16	24 7/8	25 9/16	26 1/4	26 15/16	27 5/8	28 5/16	29	29 11/16	30 3/8	31 1/16	31 3/4	32 7/16	33 1/8	33 13/16	34 1/2	35 3/16	35 7/8	36 9/16	37 1/4	37 15/16	38 5/8	39 5/16	40	40 11/16	41 3/8	42 1/16	42 3/4
3/16" Bar	22 3/16	22 7/8	23 9/16	24 1/4	24 15/16	25 5/8	26 5/16	27	27 11/16	28 3/8	29 1/16	29 3/4	30 7/16	31 1/8	31 13/16	32 1/2	33 3/16	33 7/8	34 9/16	35 1/4	35 15/16	36 5/8	37 5/16	38	38 11/16	39 3/8	40 1/16	40 3/4	41 7/16	42 1/8	42 13/16
No. of Bars	64	65	66	67	68	69	70																								
1/8" Bar	43 7/16	44 1/8	44 13/16	45 1/2	46 3/16	46 7/8	47 9/16																								
3/16" Bar	43 1/2	44 3/16	44 7/8	45 9/16	46 1/4	46 15/16	47 5/8																								

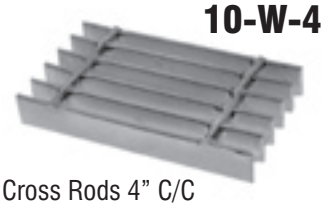
Widths in yellow available for Press-Locked grating only

Steel Bar Grating Close-Mesh

Use our new bar grating calculator at **www.amico-grating.com/calculator**

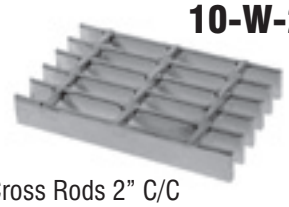
WELDED (W) 5/8" C/C of Bearing Bars

10-W-4



Cross Rods 4" C/C

10-W-2

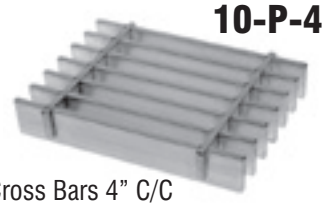


Cross Rods 2" C/C

NON-SERRATED & SERRATED

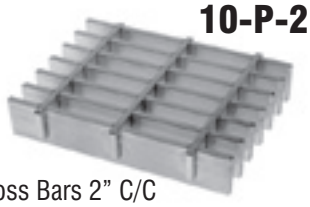
PRESS-LOCKED (P) 5/8" C/C of Bearing Bars

10-P-4



Cross Bars 4" C/C

10-P-2



Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: carbon steel

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum 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.

Fabricated to ANSI/ NAAMM standards

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	10-W-4	6.8	0.225	U	675	432	300	220	169	133	108						
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	10-P-4	7.2		C	675	540	450	386	338	300	270						
	10-P-2	8.1		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497						
3/4" x 3/16" Non-Serrated Only	10-W-4	9.9	0.338	U	1013	648	450	331	253	200	162	134					
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621	0.751					
	10-P-4	10.7		C	1013	810	675	579	506	450	405	368					
	10-P-2	12.2		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497	0.601					
1" x 1/8"	10-W-4	8.8	0.400	U	1200	768	533	392	300	237	192	159	133				
	10-W-2	9.4		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	10-P-4	9.2		C	1200	960	800	686	600	533	480	436	400				
	10-P-2	10.2		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1" x 3/16"	10-W-4	13.0	0.600	U	1800	1152	800	588	450	356	288	238	200	170			
	10-W-2	13.6		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670	0.787			
	10-P-4	13.8		C	1800	1440	1200	1029	900	800	720	655	600	554			
	10-P-2	15.3		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629			
1-1/4" x 1/8"	10-W-4	10.9	0.625	U	1875	1200	833	612	469	370	300	248	208	178	153		
	10-W-2	11.4		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	10-P-4	11.6		C	1875	1500	1250	1071	938	833	750	682	625	577	536		
	10-P-2	12.9		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	10-W-4	16.1	0.938	U	2813	1800	1250	918	703	556	450	372	313	266	230	176	
	10-W-2	16.7		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	
	10-P-4	17.4		C	2813	2250	1875	1607	1406	1250	1125	1023	938	865	804	703	
	10-P-2	19.3		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.763	
1-1/2" x 1/8"	10-W-4	13.0	0.900	U	2700	1728	1200	882	675	533	432	357	300	256	220	169	133
	10-W-2	13.5		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	10-P-4	13.7		C	2700	2160	1800	1543	1350	1200	1080	982	900	831	771	675	600
	10-P-2	15.0		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	10-W-4	19.2	1.350	U	4050	2592	1800	1322	1013	800	648	536	450	383	331	253	200
	10-W-2	19.8		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	10-P-4	20.5		C	4050	3240	2700	2314	2025	1800	1620	1473	1350	1246	1157	1013	900
	10-P-2	22.4		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	10-W-4	22.3	1.838	U	5513	3528	2450	1800	1378	1089	882	729	613	522	450	345	272
	10-W-2	22.9		D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	10-P-4	23.6		C	5513	4410	3675	3150	2756	2450	2205	2005	1838	1696	1575	1378	1225
	10-P-2	25.5		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	10-W-4	25.4	2.400	U	7200	4608	3200	2351	1800	1422	1152	952	800	682	588	450	356
	10-W-2	26.0		D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	10-P-4	26.7		C	7200	5760	4800	4114	3600	3200	2880	2618	2400	2215	2057	1800	1600
	10-P-2	28.6		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"	10-W-4	28.5	3.038	U	9113	5832	4050	2976	2278	1800	1458	1205	1013	863	744	570	450
	10-W-2	29.1		D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	10-P-4	29.8		C	9113	7290	6075	5207	4556	4050	3645	3314	3038	2804	2604	2278	2025
	10-P-2	31.7		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	10-W-4	31.6	3.750	U	11250	7200	5000	3673	2813	2222	1800	1488	1250	1065	918	703	556
	10-W-2	32.2		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	10-P-4	32.9		C	11250	9000	7500	6429	5625	5000	4500	4091	3750	3462	3214	2813	2500
	10-P-2	34.8		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

W/P-10 PANEL WIDTH (inches)

Note: P-Press-Locked cross bars typically extend 1/8" each side. W-Welded cross rods may extend 1/8" each side. Panel widths shown below do not include these extensions.

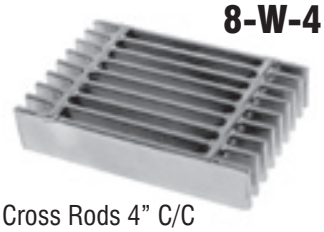
No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1/8" Bar	3/4	1 3/8	2	2 5/8	3 1/4	3 7/8	4 1/2	5 1/8	5 3/4	6 3/8	7	7 5/8	8 1/4	8 7/8	9 1/2	10 1/8	10 3/4	11 3/8	12	12 5/8	13 1/4	13 7/8	14 1/2	15 1/8	15 3/4	16 3/8	17	17 5/8	18 1/4	18 7/8	19 1/2
3/16" Bar	1 3/16	1 7/16	2 1/16	2 11/16	3 5/16	3 15/16	4 9/16	5 3/16	5 13/16	6 7/16	7 1/16	7 11/16	8 5/16	8 15/16	9 9/16	10 3/16	10 13/16	11 7/16	12 1/16	12 11/16	13 5/16	13 15/16	14 9/16	15 3/16	15 13/16	16 7/16	17 1/16	17 11/16	18 5/16	18 15/16	19 9/16
No. of Bars	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	58	59	60	61	62	63
1/8" Bar	20 1/8	20 3/4	21 3/8	22	22 5/8	23 1/4	23 7/8	24 1/2	25 1/8	25 3/4	26 3/8	27	27 5/8	28 1/4	28 7/8	29 1/2	30 1/8	30 3/4	31 3/8	32	32 5/8	33 1/4	33 7/8	34 1/2	35 1/8	35 3/4	36 3/8	37	37 5/8	38 1/4	38 7/8
3/16" Bar	20 3/16	20 13/16	21 7/16	22 1/16	22 11/16	23 5/16	23 15/16	24 9/16	25 3/16	25 13/16	26 7/16	27 1/16	27 11/16	28 5/16	28 15/16	29 9/16	30 3/16	30 13/16	31 7/16	32 1/16	32 11/16	33 5/16	33 15/16	34 9/16	35 3/16	35 13/16	36 7/16	37 1/16	37 11/16	38 5/16	38 15/16
No. of Bars	64	65	66	67	68	69	70	71	72	73	74	75	76	77																	
1/8" Bar	39 1/2	40 1/8	40 3/4	41 3/8	42	42 5/8	43 1/4	43 7/8	44 1/2	45 1/8	45 3/4	46 3/8	47	47 5/8																	
3/16" Bar	39 9/16	40 3/16	40 13/16	41 7/16	42 1/16	42 11/16	43 5/16	43 15/16	44 9/16	45 3/16	45 13/16	46 7/16	47 1/16	47 11/16																	

Widths in yellow available for Press-Locked grating only

Steel Bar Grating Close-Mesh

WELDED (W) 1/2" C/C Bearing Bars

8-W-4



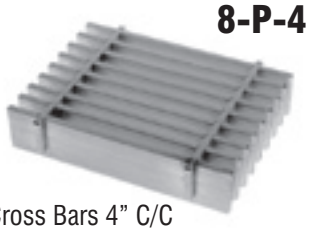
Welded Panels
Max 2'-0 Width

Cross Rods 4" C/C

NON-SERRATED & SERRATED

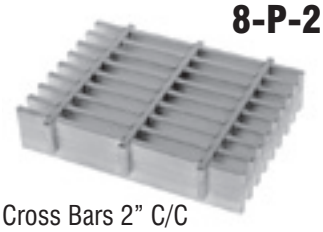
PRESS-LOCKED (P) 1/2" C/C Bearing Bars

8-P-4



Cross Bars 4" C/C

8-P-2



Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: carbon steel

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum 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.

Fabricated to ANSI/NAAMM standards

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	8-W-4	8.3	0.281	U	844	540	375	276	211	167	135						
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	8-P-4	8.7		C	844	675	563	482	422	375	338						
	8-P-2	9.6		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497						
3/4" x 3/16" Non-Serrated Only	8-W-4	10.9	0.422	U	1266	810	563	413	316	250	203	167					
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621	0.751					
	8-P-4	13.0		C	1266	1013	844	723	633	563	506	460					
	8-P-2	14.4		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497	0.601					
1" x 1/8"	8-W-4	10.9	0.500	U	1500	960	667	490	375	296	240	198	167				
				D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	8-P-4	11.3		C	1500	1200	1000	857	750	667	600	545	500				
	8-P-2	12.2		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1" x 3/16"	8-W-4	16.0	0.750	U	2250	1440	1000	735	563	444	360	298	250	213			
				D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670	0.787			
	8-P-4	16.9		C	2250	1800	1500	1286	1125	1000	900	818	750	692			
	8-P-2	18.3		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629			
1-1/4" x 1/8"	8-W-4	13.4	0.781	U	2344	1500	1042	765	586	463	375	310	260	222	191		
				D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	8-P-4	14.2		C	2344	1875	1563	1339	1172	1042	938	852	781	721	670		
	8-P-2	15.4		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	8-W-4	19.9	1.172	U	3516	2250	1563	1148	879	694	563	465	391	333	287	220	174
				D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	1.207
	8-P-4	21.2		C	3516	2813	2344	2009	1758	1563	1406	1278	1172	1082	1004	879	781
	8-P-2	23.1		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.763	0.965
1-1/2" x 1/8"	8-W-4	16.0	1.125	U	3375	2160	1500	1102	844	667	540	446	375	320	276	211	167
				D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	8-P-4	16.7		C	3375	2700	2250	1929	1688	1500	1350	1227	1125	1038	964	844	750
	8-P-2	18.2		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	8-W-4	23.8	1.688	U	5063	3240	2250	1653	1266	1000	810	669	563	479	413	316	250
				D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	8-P-4	25.1		C	5063	4050	3375	2893	2531	2250	2025	1841	1688	1558	1446	1266	1125
	8-P-2	27.0		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"			2.297	U	6891	4410	3063	2250	1723	1361	1103	911	766	652	563	431	340
				D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	8-P-4	28.9		C	6891	5513	4594	3938	3445	3063	2756	2506	2297	2120	1969	1723	1531
	8-P-2	30.8		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"			3.000	U	9000	5760	4000	2939	2250	1778	1440	1190	1000	852	735	563	444
				D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	8-P-4	32.8		C	9000	7200	6000	5143	4500	4000	3600	3273	3000	2769	2571	2250	2000
	8-P-2	34.7		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"			3.797	U	11391	7290	5063	3719	2848	2250	1823	1506	1266	1078	930	712	563
				D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	8-P-4	36.6		C	11391	9113	7594	6509	5695	5063	4556	4142	3797	3505	3254	2848	2531
	8-P-2	38.5		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"			4.688	U	14063	9000	6250	4592	3516	2778	2250	1860	1563	1331	1148	879	694
				D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	8-P-4	40.5		C	14063	11250	9375	8036	7031	6250	5625	5114	4688	4327	4018	3516	3125
	8-P-2	42.4		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

W/P-8 PANEL WIDTH (inches)

Note: Press-Locked cross bars typically extend 1/8" each side. W-Welded cross rods may extend 1/8" each side. Panel widths shown below do not include these extensions.

No. of Bars	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	30	31	32	33	34	35
1/8" Bar	2 1/8	2 5/8	3 1/8	3 5/8	4 1/8	4 5/8	5 1/8	5 5/8	6 1/8	6 5/8	7 1/8	7 5/8	8 1/8	8 5/8	9 1/8	9 5/8	10 1/8	10 5/8	11 1/8	11 5/8	12 1/8	12 5/8	13 1/8	13 5/8	14 1/8	14 5/8	15 1/8	15 5/8	16 1/8	16 5/8	17 1/8
3/16" Bar	2 3/16	2 11/16	3 3/16	3 11/16	4 3/16	4 11/16	5 3/16	5 11/16	6 3/16	6 11/16	7 3/16	7 11/16	8 3/16	8 11/16	9 3/16	9 11/16	10 3/16	10 11/16	11 3/16	11 11/16	12 3/16	12 11/16	13 3/16	13 11/16	14 3/16	14 11/16	15 3/16	15 11/16	16 3/16	16 11/16	17 3/16
No. of Bars	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
1/8" Bar	17 5/8	18 1/8	18 5/8	19 1/8	19 5/8	20 1/8	20 5/8	21 1/8	21 5/8	22 1/8	22 5/8	23 1/8	23 5/8	24 1/8	24 5/8	25 1/8	25 5/8	26 1/8	26 5/8	27 1/8	27 5/8	28 1/8	28 5/8	29 1/8	29 5/8	30 1/8	30 5/8	31 1/8	31 5/8	32 1/8	32 5/8
3/16" Bar	17 11/16	18 3/16	18 11/16	19 3/16	19 11/16	20 3/16	20 11/16	21 3/16	21 11/16	22 3/16	22 11/16	23 3/16	23 11/16	24 3/16	24 11/16	25 3/16	25 11/16	26 3/16	26 11/16	27 3/16	27 11/16	28 3/16	28 11/16	29 3/16	29 11/16	30 3/16	30 11/16	31 3/16	31 11/16	32 3/16	32 11/16
No. of Bars	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97
1/8" Bar	33 1/8	33 5/8	34 1/8	34 5/8	35 1/8	35 5/8	36 1/8	36 5/8	37 1/8	37 5/8	38 1/8	38 5/8	39 1/8	39 5/8	40 1/8	40 5/8	41 1/8	41 5/8	42 1/8	42 5/8	43 1/8	43 5/8	44 1/8	44 5/8	45 1/8	45 5/8	46 1/8	46 5/8	47 1/8	47 5/8	48 1/8
3/16" Bar	33 3/16	33 11/16	34 3/16	34 11/16	35 3/16	35 11/16	36 3/16	36 11/16	37 3/16	37 11/16	38 3/16	38 11/16	39 3/16	39 11/16	40 3/16	40 11/16	41 3/16	41 11/16	42 3/16	42 11/16	43 3/16	43 11/16	44 3/16	44 11/16	45 3/16	45 11/16	46 3/16	46 11/16	47 3/16	47 11/16	48 3/16

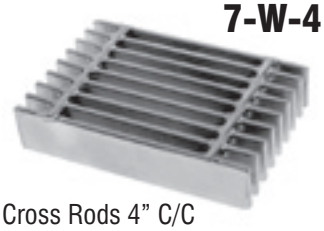
Widths in yellow available for Press-Locked grating only

Steel Bar Grating Close-Mesh

Use our new bar grating calculator at **www.amico-grating.com/calculator**

WELDED (W) 7/16" C/C Bearing Bars

7-W-4



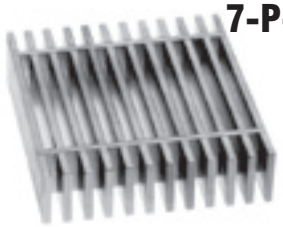
Welded Panels
Max 2'-0 Width

Cross Rods 4" C/C

NON-SERRATED ONLY

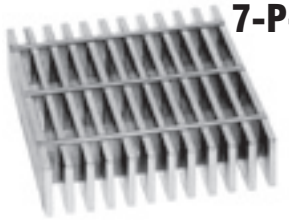
PRESS-LOCKED (P) 7/16" C/C Bearing Bars

7-P-4



Cross Bars 4" C/C

7-P-2



Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: carbon steel

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum 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 table.

Fabricated to ANSI/ NAAMM standards

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	7-W-4	9.3		U	964	617	429	315	241	190	154						
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	7-P-4	9.8	0.321	C	964	771	643	551	482	429	386						
	7-P-2	10.7		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497	0.601					
3/4" x 3/16" Non-Serrated Only	7-W-4	13.7		U	1446	926	643	472	362	286	231	191					
				D	0.099	0.155	0.223	0.304	0.397	0.503	0.621	0.751					
	7-P-4	14.6	0.482	C	1446	1157	964	827	723	643	579	526					
	7-P-2	16.1		D	0.079	0.124	0.179	0.243	0.318	0.402	0.497	0.601					
1" x 1/8"	7-W-4	12.3		U	1714	1097	762	560	429	339	274	227	190	162			
				D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670	0.787			
	7-P-4	12.7	0.571	C	1714	1371	1143	980	857	762	686	623	571	527			
	7-P-2	13.7		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629			
1" x 3/16"	7-W-4	18.1		U	2571	1646	1143	840	643	508	411	340	286	243	210		
				D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670	0.787	0.912		
	7-P-4	19.0	0.857	C	2571	2057	1714	1469	1286	1143	1029	935	857	791	735		
	7-P-2	20.5		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
1-1/4" x 1/8"	7-W-4	15.3		U	2679	1714	1190	875	670	529	429	354	298	254	219	167	
				D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	
	7-P-4	16.0	0.893	C	2679	2143	1786	1531	1339	1190	1071	974	893	824	765	670	
	7-P-2	17.3		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.763	
1-1/4" x 3/16"	7-W-4	22.5		U	4018	2571	1786	1312	1004	794	643	531	446	380	328	251	198
				D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730	0.953	1.207
	7-P-4	23.9	1.339	C	4018	3214	2679	2296	2009	1786	1607	1461	1339	1236	1148	1004	893
	7-P-2	25.8		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584	0.763	0.965
1-1/2" x 1/8"	7-W-4	18.1		U	3857	2469	1714	1259	964	762	617	510	429	365	315	241	190
				D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	7-P-4	18.9	1.286	C	3857	3086	2571	2204	1929	1714	1543	1403	1286	1187	1102	964	857
	7-P-2	20.2		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	7-W-4	26.9		U	5786	3703	2571	1889	1446	1143	926	765	643	548	472	362	286
				D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	7-P-4	28.3	1.929	C	5786	4629	3857	3306	2893	2571	2314	2104	1929	1780	1653	1446	1286
	7-P-2	30.2		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"				U	7875	5040	3500	2571	1969	1556	1260	1041	875	746	643	492	389
				D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	7-P-4	32.7	2.625	C	7875	6300	5250	4500	3938	3500	3150	2864	2625	2423	2250	1969	1750
	7-P-2	34.6		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"				U	10286	6583	4571	3359	2571	2032	1646	1360	1143	974	840	643	508
				D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	7-P-4	37.1	3.429	C	10286	8229	6857	5878	5143	4571	4114	3740	3429	3165	2939	2571	2286
	7-P-2	39.0		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"				U	13018	8331	5786	4251	3254	2571	2083	1721	1446	1232	1063	814	643
				D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	7-P-4	41.5	4.339	C	13018	10414	8679	7439	6509	5786	5207	4734	4339	4005	3719	3254	2893
	7-P-2	43.4		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"				U	16071	10286	7143	5248	4018	3175	2571	2125	1786	1522	1312	1004	794
				D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	7-P-4	45.9	5.357	C	16071	12857	10714	9184	8036	7143	6429	5844	5357	4945	4592	4018	3571
	7-P-2	47.8		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

P-7 PANEL WIDTH (inches)

Note: P-Press-Locked cross bars typically extend 1/8" each side. Panel widths shown below do not include these extensions.

No. of Bars	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
1/8" Bar	7 9/16	8	8 7/16	8 7/8	9 5/16	9 3/4	10 3/16	10 5/8	11 1/16	11 1/2	11 15/16	12 3/8	12 13/16	13 1/4	13 11/16	14 1/8	14 9/16	15	15 7/16	15 7/8	16 5/16	16 3/4	17 3/16	17 5/8	18 1/16	18 1/2	18 15/16	19 3/8	19 13/16	20 1/4	20 11/16
3/16" Bar	7 5/8	8 1/16	8 1/2	8 15/16	9 3/8	9 13/16	10 1/4	10 11/16	11 1/8	11 9/16	12	12 7/16	12 7/8	13 5/16	13 3/4	14 3/16	14 5/8	15 1/16	15 1/2	15 15/16	16 3/8	16 13/16	17 1/4	17 11/16	18 1/8	18 9/16	19	19 7/16	19 7/8	20 5/16	20 3/4
No. of Bars	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
1/8" Bar	21 1/8	21 9/16	22	22 7/16	22 7/8	23 5/16	23 3/4	24 3/16	24 5/8	25 1/16	25 1/2	25 15/16	26 3/8	26 13/16	27 1/4	27 11/16	28 1/8	28 9/16	29	29 7/16	29 7/8	30 5/16	30 3/4	31 3/16	31 5/8	32 1/16	32 1/2	32 15/16	33 3/8	33 13/16	34 1/4
3/16" Bar	21 3/16	21 5/8	22 1/16	22 1/2	22 15/16	23 3/8	23 13/16	24 1/4	24 11/16	25 1/8	25 9/16	26	26 7/16	26 7/8	27 5/16	27 3/4	28 3/16	28 5/8	29 1/16	29 1/2	29 15/16	30 3/8	30 13/16	31 1/4	31 11/16	32 1/8	32 9/16	33	33 7/16	33 7/8	34 5/16
No. of Bars	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110
1/8" Bar	34 11/16	35 1/8	35 9/16	36	36 7/16	36 7/8	37 5/16	37 3/4	38 3/16	38 5/8	39 1/16	39 1/2	39 15/16	40 3/8	40 13/16	41 1/4	41 11/16	42 1/8	42 9/16	43	43 7/16	43 7/8	44 5/16	44 3/4	45 1/16	45 5/8	46 1/16	46 1/2	46 15/16	47 3/8	47 13/16
3/16" Bar	34 3/4	35 3/16	35 5/8	36 1/16	36 1/2	36 15/16	37 3/8	37 13/16	38 1/4	38 11/16	39 1/8	39 9/16	40	40 7/16	40 7/8	41 5/16	41 3/4	42 3/16	42 5/8	43 1/16	43 1/2	43 15/16	44 3/8	44 13/16	45 1/4	45 11/16	46 1/8	46 9/16	47	47 7/16	47 7/8

Widths in yellow available for Press-Locked grating only

Stainless Steel Bar Grating

Stainless Steel Grating

When caustic atmospheres are encountered or when corrosion resistance and/or minimum carbide precipitation are essential considerations, AMICO stainless steel grating is the answer. The longer-lasting capabilities of stainless steel under these special conditions make it an economical selection over the long term.

It is ideal for use in food processing areas, breweries, bottling plants, dairies and meat packing plants. Stainless steel can also be used in power plants, sewage treatment plants, pumping stations and hydrocarbon processing facilities where various caustic environments are normal. It also has application in shipboard and building industries where saline solutions or atmospheres are present.

Stainless Steel Bar Grating is available in welded, riveted, swage-locked and press-locked types, which are designated as S, RS, SS and SP, respectively. Heavy-duty welded bar gratings and Riv-Dexteel,® which are designated as HS, RSL and RSH, respectively, can also be manufactured from stainless steel.

The alloys listed here are available as standard products. Each conforms with ASTM A-167. In addition, special alloys are available upon request.

Finish

Unless otherwise specified, stainless steel grating shall have a mill finish. Stainless steel will show some discoloration around the joints due to welding. Finishes available to remove discoloration include sandblasting and electro-polishing, the latter being used where bright finish is desired. Shot blasting or wire brushing should be avoided since these operations can cause iron contamination which, if not removed, will cause rusting and discoloration of the surface. Such contamination can be removed by passivation. Electro-polishing leaves a passive surface. The swage-locked and press-locked processes will not show discoloration.

Chemical Composition

	Alloy 304	Alloy 304L	Alloy 316	Alloy 316L
Carbon (max %)	0.08	0.03	0.08	0.03
Manganese (max %)	2.00	2.00	2.00	2.00
Silicon (max %)	0.75	0.75	0.75	0.75
Chromium (% range)	18-20	18-20	16-18	16-18
Phosphorus (max %)	0.045	0.045	0.045	0.045
Sulfur (max %)	0.030	0.030	0.030	0.030
Nickel (% range)	8-10.5	8-12	10-14	10-14
Nitrogen (max %)	0.10	0.10	0.10	0.10
Other Elements	—	—	2-3% Mo	2-3% Mo

General Descriptions

Type 304 alloys resist most oxidizing acids and can withstand all ordinary rusting. They are immune to foodstuffs, sterilizing solutions, most of the organic chemicals and dyestuffs, and a wide variety of inorganic chemicals. This grade should be considered for use unless some special mechanical, physical or fabricating characteristic is required.

Type 304L is the low carbon modification of Type 304. This minimizes the problem of carbide precipitation during welding.

Type 316 alloys have superior corrosion resistance especially to sulfurous acid compounds and many chemicals used by the chemical process industries. It is more resistant to pitting corrosion than typical 18-8 alloys (Chromium-Nickel), such as Type 304.

Type 316L is the low carbon modification of Type 316. This minimizes the problem of carbide precipitation during welding.

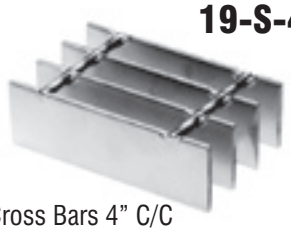
The modulus of elasticity for stainless alloys is 28,000,000 psi.

Stainless Steel Bar Grating

Available in same spacing patterns and bearing bar sizes as carbon steel grating (see pages 3-9).

STAINLESS WELDED 1-3/16" C/C Bearing Bars

19-S-4



Cross Bars 4" C/C

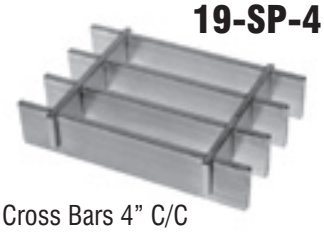
19-S-2

Cross Bars 2" C/C

NON-SERRATED & SERRATED

STAINLESS PRESS-LOCKED 1-3/16" C/C Bearing Bars

19-SP-4



Cross Bars 4" C/C

19-SP-2

Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

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

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs
D = Deflection due to C, in.
Allowable stress = 20,000 psi
Material: ASTM A-167

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum 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.

Fabricated to ANSI/NAAMM standards

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	19-S-4	3.9	0.118	U	395	253	175	129	99	78							
	19-S-2	4.4		D	0.114	0.179	0.257	0.350	0.457	0.579							
	19-SP-4	4.3		C	395	316	263	226	197	175							
	19-SP2	5.2		D	0.091	0.143	0.206	0.280	0.366	0.463							
3/4" x 3/16" Non-Serrated Only	19-S-4	5.6	0.178	U	592	379	263	193	148	117							
	19-S-2	6.2		D	0.114	0.179	0.257	0.350	0.457	0.579							
	19-SP-4	6.4		C	592	474	395	338	296	263							
	19-SP2	7.8		D	0.091	0.143	0.206	0.280	0.366	0.463							
1" x 1/8"	19-S-4	5.0	0.211	U	702	449	312	229	175	139	112	93					
	19-S-2	5.5		D	0.086	0.134	0.193	0.263	0.343	0.434	0.536	0.648					
	19-SP-4	5.4		C	702	561	468	401	351	312	281	255					
	19-SP2	6.3		D	0.069	0.107	0.154	0.210	0.274	0.347	0.429	0.519					
1" x 3/16"	19-S-4	7.2	0.316	U	1053	674	468	344	263	208	168	139					
	19-S-2	7.8		D	0.086	0.134	0.193	0.263	0.343	0.434	0.536	0.648					
	19-SP-4	8.1		C	1053	842	702	602	526	468	421	383					
	19-SP2	9.5		D	0.069	0.107	0.154	0.210	0.274	0.347	0.429	0.519					
1-1/4" x 1/8"	19-S-4	6.1	0.329	U	1096	702	487	358	274	217	175	145	122	104	90		
	19-S-2	6.6		D	0.069	0.107	0.154	0.210	0.274	0.347	0.429	0.519	0.617	0.724	0.840		
	19-SP-4	6.8		C	1096	877	731	627	548	487	439	399	365	337	313		
	19-SP2	8.1		D	0.055	0.086	0.123	0.168	0.219	0.278	0.343	0.415	0.494	0.579	0.672		
1-1/4" x 3/16"	19-S-4	8.9	0.493	U	1645	1053	731	537	411	325	263	217	183	156	134		
	19-S-2	9.5		D	0.069	0.107	0.154	0.210	0.274	0.347	0.429	0.519	0.617	0.724	0.840		
	19-SP-4	10.2		C	1645	1316	1096	940	822	731	658	598	548	506	470		
	19-SP2	12.1		D	0.055	0.086	0.123	0.168	0.219	0.278	0.343	0.415	0.494	0.579	0.672		
1-1/2" x 1/8"	19-S-4	7.2	0.474	U	1579	1011	702	516	395	312	253	209	175	149	129	99	78
	19-S-2	7.7		D	0.057	0.089	0.129	0.175	0.229	0.289	0.357	0.432	0.514	0.604	0.700	0.914	1.157
	19-SP-4	7.9		C	1579	1263	1053	902	789	702	632	574	526	486	451	395	351
	19-SP2	9.2		D	0.046	0.071	0.103	0.140	0.183	0.231	0.286	0.346	0.411	0.483	0.560	0.731	0.926
1-1/2" x 3/16"	19-S-4	10.5	0.711	U	2368	1516	1053	773	592	468	379	313	263	224	193	148	117
	19-S-2	11.2		D	0.057	0.089	0.129	0.175	0.229	0.289	0.357	0.432	0.514	0.604	0.700	0.914	1.157
	19-SP-4	11.8		C	2368	1895	1579	1353	1184	1053	947	861	789	729	677	592	526
	19-SP2	13.8		D	0.046	0.071	0.103	0.140	0.183	0.231	0.286	0.346	0.411	0.483	0.560	0.731	0.926
1-3/4" x 3/16"	19-S-4	12.2	0.967	U	3224	2063	1433	1053	806	637	516	426	358	305	263	201	159
	19-S-2	12.8		D	0.049	0.077	0.110	0.150	0.196	0.248	0.306	0.370	0.441	0.517	0.600	0.784	0.992
	19-SP-4	13.5		C	3224	2579	2149	1842	1612	1433	1289	1172	1075	992	921	806	716
	19-SP2	15.4		D	0.039	0.061	0.088	0.120	0.157	0.198	0.245	0.296	0.353	0.414	0.480	0.627	0.793
2" x 3/16"	19-S-4	13.9	1.263	U	4211	2695	1871	1375	1053	832	674	557	468	399	344	263	208
	19-S-2	14.5		D	0.043	0.067	0.096	0.131	0.171	0.217	0.268	0.324	0.386	0.453	0.525	0.686	0.868
	19-SP-4	15.2		C	4211	3368	2807	2406	2105	1871	1684	1531	1404	1296	1203	1053	936
	19-SP2	17.1		D	0.034	0.054	0.077	0.105	0.137	0.174	0.214	0.259	0.309	0.362	0.420	0.549	0.694
2-1/4" x 3/16"	19-S-4	15.5	1.599	U	5329	3411	2368	1740	1332	1053	853	705	592	505	435	333	263
	19-S-2	16.1		D	0.038	0.060	0.086	0.117	0.152	0.193	0.238	0.288	0.343	0.402	0.467	0.610	0.771
	19-SP-4	16.8		C	5329	4263	3553	3045	2664	2368	2132	1938	1776	1640	1523	1332	1184
	19-SP2	18.7		D	0.030	0.048	0.069	0.093	0.122	0.154	0.190	0.230	0.274	0.322	0.373	0.488	0.617
2-1/2" x 3/16"	19-S-4	17.2	1.974	U	6579	4211	2924	2148	1645	1300	1053	870	731	623	537	411	325
	19-S-2	17.8		D	0.034	0.054	0.077	0.105	0.137	0.174	0.214	0.259	0.309	0.362	0.420	0.549	0.694
	19-SP-4	18.5		C	6579	5263	4386	3759	3289	2924	2632	2392	2193	2024	1880	1645	1462
	19-SP2	20.4		D	0.027	0.043	0.062	0.084	0.110	0.139	0.171	0.207	0.247	0.290	0.336	0.439	0.555

NOTE: For gratings with other than 1-3/16" bearing bar spacing, proportionate conversion factors apply. This table is for Alloys 304 and 316. For Alloys 304L and 316L, F=16,500 psi and values for U, C and D should be multiplied by .825.
For other stainless steel bar grating spacing, contact your AMICO sales representatives for assistance.

S/SP-19 PANEL WIDTH (inches)

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	30	31	32
1/8" Bar	1 5/16	2 1/2	3 11/16	4 7/8	6 1/16	7 1/4	8 7/16	9 5/8	10 13/16	12	13 3/16	14 3/8	15 9/16	16 3/4	17 15/16	19 1/8	20 5/16	21 1/2	22 11/16	23 7/8	25 1/16	26 1/4	27 7/16	28 5/8	29 13/16	31	32 3/16	33 3/8	34 9/16	35 3/4	36 15/16
3/16" Bar	1 3/8	2 9/16	3 3/4	4 15/16	6 1/8	7 5/16	8 1/2	9 11/16	10 7/8	12 1/16	13 1/4	14 7/16	15 5/8	16 13/16	18	19 3/16	20 3/8	21 9/16	22 3/4	23 15/16	25 1/8	26 5/16	27 1/2	28 11/16	29 7/8	31 1/16	32 1/4	33 7/16	34 5/8	35 13/16	37

No. of Bars	33	34	35	36	37	38	39	40	41
1/8" Bar	38 1/8	39 5/16	40 1/2	41 11/16	42 7/8	44 1/16	45 1/4	46 7/16	47 5/8
3/16" Bar	38 3/16	39 3/8	40 9/16	41 3/4	42 15/16	44 1/8	45 5/16	46 1/2	47 11/16

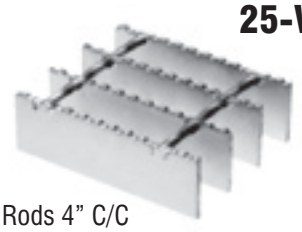
Note: SP-Stainless Press-Locked cross bars typically extend 1/8" each side. S-Stainless Welded cross rods may extend 1/8" each side. Panel widths shown in this Panel Width table do not include these extensions.

AAR Approved (Railroad) Grating

RAILROAD GRATING

1-9/16" C/C of Bearing Bars

25-W-4

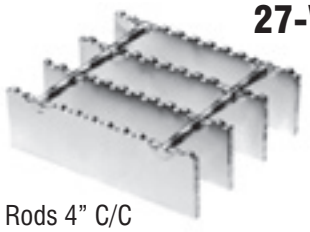


Cross Rods 4" C/C

SERRATED ONLY

1-11/16" C/C of Bearing Bars

27-W-4



Cross Rods 4" C/C

SERRATED ONLY

AAR Group Number Number	Bar Size	Symbol	Approx. Weight (psf)	Unsupported Length
1	1" x 1/8"	25-W-4	3.85	4'
1	1" x 3/16"	25-W-4	5.67	4'
1	1" x 3/16"	27-W-4	5.47	4'
2	1-1/2" x 3/16"	27-W-4	7.88	7'
3	2" x 3/16"	27-W-4	10.29	10'

AMICO bar grating is approved for conformity to Association of American Railroads (AAR) Specifications, Rule 53 in the Field Manual of the AAR Interchange Rules.

AMICO bar grating is designed and engineered to meet AAR specifications for running boards, dome platforms, brake steps and crossover platform applications.

AMICO conforms to the requirements for Group No. 1, Group No. 2 and Group No. 3. Unsupported length for each of these Groups is 4', 7' and 10', respectively.

W-25/W-27 PANEL WIDTH (inches)

Note: W-Welded cross rods may extend 1/8" each side. Panel widths shown do not include these extensions.

No. of Bars		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25-W-4	1/8" Bar	$7^{15}/_{16}$	$9^{1}/_{2}$	$11^{1}/_{16}$	$12^{5}/_{8}$	$14^{3}/_{16}$	$15^{3}/_{4}$	$17^{5}/_{16}$	$18^{7}/_{8}$	$20^{7}/_{16}$	22	$23^{9}/_{16}$	$25^{1}/_{8}$	$26^{11}/_{16}$	$28^{1}/_{4}$	$29^{13}/_{16}$	$3^{13}/_{8}$	$32^{15}/_{16}$	$34^{1}/_{2}$	$36^{1}/_{16}$
	3/16" Bar	8	$9^{9}/_{16}$	$11^{1}/_{8}$	$12^{11}/_{16}$	$14^{1}/_{4}$	$15^{13}/_{16}$	$17^{3}/_{8}$	$18^{15}/_{16}$	$20^{1}/_{2}$	$22^{1}/_{16}$	$23^{5}/_{8}$	$25^{3}/_{16}$	$26^{3}/_{4}$	$28^{5}/_{16}$	$29^{7}/_{8}$	$31^{7}/_{16}$	33	$34^{9}/_{16}$	$36^{1}/_{8}$
27-W-4	3/16" Bar	$8^{5}/_{8}$	$10^{5}/_{16}$	12	$13^{11}/_{16}$	$15^{3}/_{8}$	$17^{1}/_{16}$	$18^{3}/_{4}$	$20^{7}/_{16}$	$22^{1}/_{8}$	$23^{13}/_{16}$	$25^{1}/_{2}$	$27^{3}/_{16}$	$28^{7}/_{8}$	$30^{9}/_{16}$	$32^{1}/_{4}$	$33^{15}/_{16}$	$35^{5}/_{8}$	$37^{5}/_{16}$	39

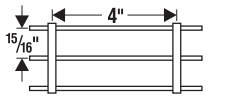
Heavy-Duty Steel Bar Grating

Heavy-Duty Welded Grating has the strength for heavy-duty load areas such as airfields, industrial plants, truck and bus terminals, parking lots and railroad yards. Common uses are flooring, driveways, subway and tunnel ventilation grilles, curb inlet grates, ramps, docks, etc.

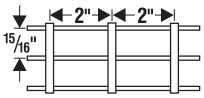
It is a sturdy grating to carry loads and maintain the same level over many years of use. Whenever rolling wheel loads are to be used over the grating, we recommend that the grating be load banded to add lateral strength. Serrations are available on bars up to 3/8" thick to provide additional traction for rolling loads.

Standard heavy-duty bar grating is resistance-welded for durability, strength and safety using an automated electric/hydraulic welding process. High temperatures, combined with high pressure, fuse the bearing bars and cross bars together to form a permanent joint.

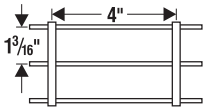
HEAVY-DUTY WELDED STEEL BAR GRATING



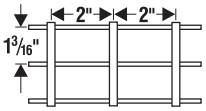
15-H-4



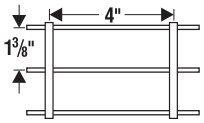
15-H-2



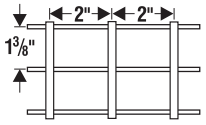
19-H-4



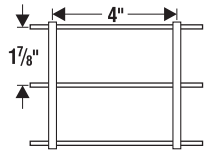
19-H-2



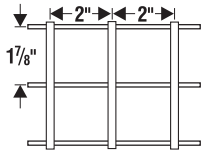
22-H-4



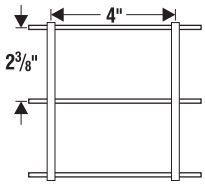
22-H-2



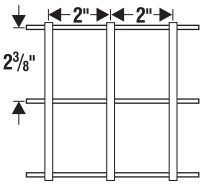
30-H-4



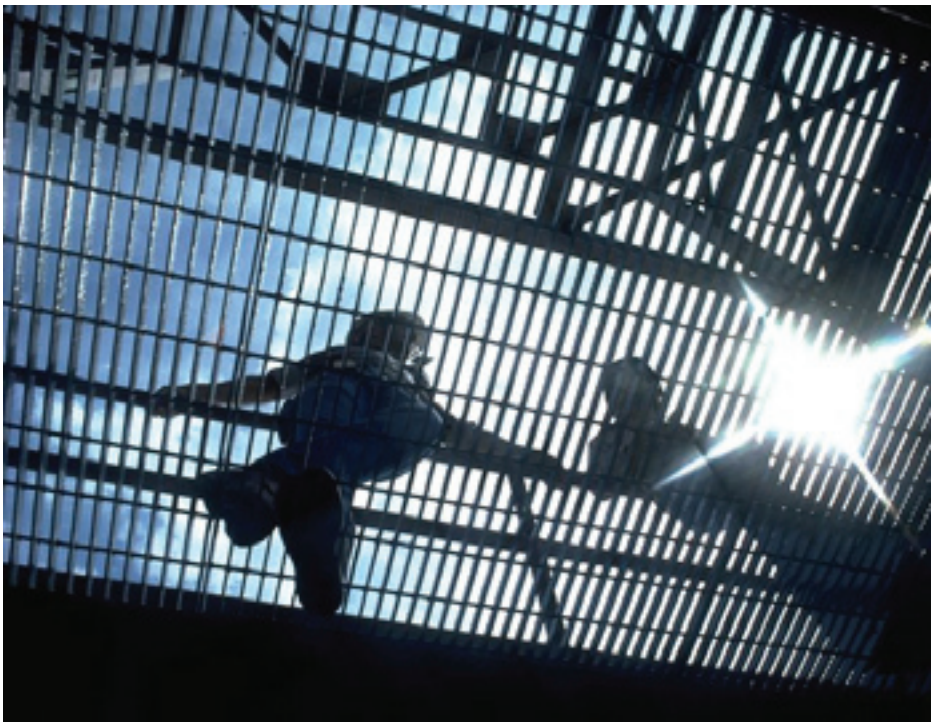
30-H-2



38-H-4



38-H-2



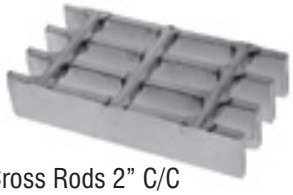
Heavy-Duty Steel Bar Grating

HEAVY-DUTY WELDED (H) 15/16" C/C Bearing Bars

15-H-4

Cross Rods 4" C/C

15-H-2



Cross Rods 2" C/C

NON-SERRATED & SERRATED

U = Allowable uniform load, psf

C = Allowable concentrated load per ft. of grating width, lbs.

Allowable stress = 20,000 psi

Material: ASTM A-36

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.

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval. For deflections of uniform, concentrated and vehicular loads, consult AMICO's engineering departments.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
1" x 1/4"	15-H-4	11.7	0.533	U	1,778	1,138	790	580	444	351	284	235	198	145	111
	15-H-2	12.4		C	1,778	1,422	1,185	1,016	889	790	711	646	593	508	444
1" x 5/16"	15-H-4	14.9	0.667	U	2,222	1,422	988	726	556	439	356	294	247	181	139
	15-H-2	16.1		C	2,222	1,778	1,481	1,270	1,111	988	889	808	741	635	556
1" x 3/8"	15-H-4	17.7	0.800	U	2,667	1,707	1,185	871	667	527	427	353	296	218	167
	15-H-2	18.8		C	2,667	2,133	1,778	1,524	1,333	1,185	1,067	970	889	762	667
1-1/4" x 1/4"	15-H-4	14.5	0.833	U	2,778	1,778	1,235	907	694	549	444	367	309	227	174
	15-H-2	15.1		C	2,778	2,222	1,852	1,587	1,389	1,235	1,111	1,010	926	794	694
1-1/4" x 5/16"	15-H-4	18.4	1.042	U	3,472	2,222	1,543	1,134	868	686	556	459	386	283	217
	15-H-2	19.6		C	3,472	2,778	2,315	1,984	1,736	1,543	1,389	1,263	1,157	992	868
1-1/4" x 3/8"	15-H-4	21.9	1.250	U	4,167	2,667	1,852	1,361	1,042	823	667	551	463	340	260
	15-H-2	22.9		C	4,167	3,333	2,778	2,381	2,083	1,852	1,667	1,515	1,389	1,190	1,042
1-1/2" x 1/4"	15-H-4	17.3	1.200	U	4,000	2,560	1,778	1,306	1,000	790	640	529	444	327	250
	15-H-2	17.9		C	4,000	3,200	2,667	2,286	2,000	1,778	1,600	1,455	1,333	1,143	1,000
1-1/2" x 5/16"	15-H-4	21.9	1.500	U	5,000	3,200	2,222	1,633	1,250	988	800	661	556	408	313
	15-H-2	23.1		C	5,000	4,000	3,333	2,857	2,500	2,222	2,000	1,818	1,667	1,429	1,250
1-1/2" x 3/8"	15-H-4	26.0	1.800	U	6,000	3,840	2,667	1,959	1,500	1,185	960	793	667	490	375
	15-H-2	27.1		C	6,000	4,800	4,000	3,429	3,000	2,667	2,400	2,182	2,000	1,714	1,500
1-3/4" x 1/4"	15-H-4	20.1	1.633	U	5,444	3,484	2,420	1,778	1,361	1,075	871	720	605	444	340
	15-H-2	20.7		C	5,444	4,356	3,630	3,111	2,722	2,420	2,178	1,980	1,815	1,556	1,361
1-3/4" x 5/16"	15-H-4	25.3	2.042	U	6,806	4,356	3,025	2,222	1,701	1,344	1,089	900	756	556	425
	15-H-2	26.8		C	6,806	5,444	4,537	3,889	3,403	3,025	2,722	2,475	2,269	1,944	1,701
1-3/4" x 3/8"	15-H-4	30.1	2.450	U	8,167	5,227	3,630	2,667	2,042	1,613	1,307	1,080	907	667	510
	15-H-2	31.3		C	8,167	6,533	5,444	4,667	4,083	3,630	3,267	2,970	2,722	2,333	2,042
2" x 1/4"	15-H-4	22.8	2.133	U	7,111	4,551	3,160	2,322	1,778	1,405	1,138	940	790	580	444
	15-H-2	23.5		C	7,111	5,689	4,741	4,063	3,556	3,160	2,844	2,586	2,370	2,032	1,778
2" x 5/16"	15-H-4	28.8	2.667	U	8,889	5,689	3,951	2,902	2,222	1,756	1,422	1,175	988	726	556
	15-H-2	29.9		C	8,889	7,111	5,926	5,079	4,444	3,951	3,556	3,232	2,963	2,540	2,222
2" x 3/8"	15-H-4	34.2	3.200	U	10,667	6,827	4,741	3,483	2,667	2,107	1,707	1,410	1,185	871	667
	15-H-2	35.4		C	10,667	8,533	7,111	6,095	5,333	4,741	4,267	3,879	3,556	3,048	2,667
2-1/4" x 1/4"	15-H-4	25.6	2.700	U	9,000	5,760	4,000	2,939	2,250	1,778	1,440	1,190	1,000	735	563
	15-H-2	26.3		C	9,000	7,200	6,000	5,143	4,500	4,000	3,600	3,273	3,000	2,571	2,250
2-1/4" x 5/16"	15-H-4	32.3	3.375	U	11,250	7,200	5,000	3,673	2,813	2,222	1,800	1,488	1,250	918	703
	15-H-2	33.4		C	11,250	9,000	7,500	6,429	5,625	5,000	4,500	4,091	3,750	3,214	2,813
2-1/4" x 3/8"	15-H-4	38.4	4.050	U	13,500	8,640	6,000	4,408	3,375	2,667	2,160	1,785	1,500	1,102	844
	15-H-2	39.6		C	13,500	10,800	9,000	7,714	6,750	6,000	5,400	4,909	4,500	3,857	3,375
2-1/2" x 1/4"	15-H-4	28.4	3.333	U	11,111	7,111	4,938	3,628	2,778	2,195	1,778	1,469	1,235	907	694
	15-H-2	29.1		C	11,111	8,889	7,407	6,349	5,556	4,938	4,444	4,040	3,704	3,175	2,778
2-1/2" x 5/16"	15-H-4	35.7	4.167	U	13,889	8,889	6,173	4,535	3,472	2,743	2,222	1,837	1,543	1,134	868
	15-H-2	36.9		C	13,889	11,111	9,259	7,937	6,944	6,173	5,556	5,051	4,630	3,968	3,472
2-1/2" x 3/8"	15-H-4	42.6	5.000	U	16,667	10,667	7,407	5,442	4,167	3,292	2,667	2,204	1,852	1,361	1,042
	15-H-2	43.7		C	16,667	13,333	11,111	9,524	8,333	7,407	6,667	6,061	5,556	4,762	4,167
2-3/4" x 1/4"	15-H-4	31.2	4.033	U	13,444	8,604	5,975	4,390	3,361	2,656	2,151	1,778	1,494	1,098	840
	15-H-2	31.8		C	13,444	10,756	8,963	7,683	6,722	5,975	5,378	4,889	4,481	3,841	3,361
2-3/4" x 5/16"	15-H-4	39.6	5.042	U	16,806	10,756	7,469	5,488	4,201	3,320	2,689	2,222	1,867	1,372	1,050
	15-H-2	41.1		C	16,806	13,444	11,204	9,603	8,403	7,469	6,722	6,111	5,602	4,802	4,201
2-3/4" x 3/8"	15-H-4	47.1	6.050	U	20,167	12,907	8,963	6,585	5,042	3,984	3,227	2,667	2,241	1,646	1,260
	15-H-2	48.7		C	20,167	16,133	13,444	11,524	10,083	8,963	8,067	7,333	6,722	5,762	5,042

Heavy-Duty Steel Bar Grating

Use our new bar grating calculator at
www.amico-grating.com/calculator

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
3" x 1/4"	15-H-4	34.4	4.800	U	16,000	10,240	7,111	5,224	4,000	3,160	2,560	2,116	1,778	1,306	1,000
	15-H-2	35.5		C	16,000	12,800	10,667	9,143	8,000	7,111	6,400	5,818	5,333	4,571	4,000
3" x 5/16"	15-H-4	43.1	6.000	U	20,000	12,800	8,889	6,531	5,000	3,951	3,200	2,645	2,222	1,633	1,250
	15-H-2	44.6		C	20,000	16,000	13,333	11,429	10,000	8,889	8,000	7,273	6,667	5,714	5,000
3" x 3/8"	15-H-4	51.3	7.200	U	24,000	15,360	10,667	7,837	6,000	4,741	3,840	3,174	2,667	1,959	1,500
	15-H-2	52.8		C	24,000	19,200	16,000	13,714	12,000	10,667	9,600	8,727	8,000	6,857	6,000
3-1/4" x 1/4"	15-H-4	37.2	5.633	U	18,778	12,018	8,346	6,132	4,694	3,709	3,004	2,483	2,086	1,533	1,174
	15-H-2	38.3		C	18,778	15,022	12,519	10,730	9,389	8,346	7,511	6,828	6,259	5,365	4,694
3-1/4" x 5/16"	15-H-4	46.5	7.042	U	23,472	15,022	10,432	7,664	5,868	4,636	3,756	3,104	2,608	1,916	1,467
	15-H-2	48.1		C	23,472	18,778	15,648	13,413	11,736	10,432	9,389	8,535	7,824	6,706	5,868
3-1/4" x 3/8"	15-H-4	55.4	8.450	U	28,167	18,027	12,519	9,197	7,042	5,564	4,507	3,725	3,130	2,299	1,760
	15-H-2	56.9		C	28,167	22,533	18,778	16,095	14,083	12,519	11,267	10,242	9,389	8,048	7,042
3-1/2" x 1/4"	15-H-4	39.9	6.533	U	21,778	13,938	9,679	7,111	5,444	4,302	3,484	2,880	2,420	1,778	1,361
	15-H-2	41.1		C	21,778	17,422	14,519	12,444	10,889	9,679	8,711	7,919	7,259	6,222	5,444
3-1/2" x 5/16"	15-H-4	49.9	8.167	U	27,222	17,422	12,099	8,889	6,806	5,377	4,356	3,600	3,025	2,222	1,701
	15-H-2	51.5		C	27,222	21,778	18,148	15,556	13,611	12,099	10,889	9,899	9,074	7,778	6,806
3-1/2" x 3/8"	15-H-4	59.5	9.800	U	32,667	20,907	14,519	10,667	8,167	6,453	5,227	4,320	3,630	2,667	2,042
	15-H-2	61.1		C	32,667	26,133	21,778	18,667	16,333	14,519	13,067	11,879	10,889	9,333	8,167
4" x 1/4"	15-H-4	45.5	8.533	U	28,444	18,204	12,642	9,288	7,111	5,619	4,551	3,761	3,160	2,322	1,778
	15-H-2	46.6		C	28,444	22,756	18,963	16,254	14,222	12,642	11,378	10,343	9,481	8,127	7,111
4" x 5/16"	15-H-4	56.9	10.667	U	35,556	22,756	15,802	11,610	8,889	7,023	5,689	4,702	3,951	2,902	2,222
	15-H-2	58.4		C	35,556	28,444	23,704	20,317	17,778	15,802	14,222	12,929	11,852	10,159	8,889
4" x 3/8"	15-H-4	67.8	12.800	U	42,667	27,307	18,963	13,932	10,667	8,428	6,827	5,642	4,741	3,483	2,667
	15-H-2	69.4		C	42,667	34,133	28,444	24,381	21,333	18,963	17,067	15,515	14,222	12,190	10,667
4-1/2" x 1/4"	15-H-4	51.1	10.800	U	36,000	23,040	16,000	11,755	9,000	7,111	5,760	4,760	4,000	2,939	2,250
	15-H-2	52.2		C	36,000	28,800	24,000	20,571	18,000	16,000	14,400	13,091	12,000	10,286	9,000
4-1/2" x 5/16"	15-H-4	63.8	13.500	U	45,000	28,800	20,000	14,694	11,250	8,889	7,200	5,950	5,000	3,673	2,813
	15-H-2	65.3		C	45,000	36,000	30,000	25,714	22,500	20,000	18,000	16,364	15,000	12,857	11,250
4-1/2" x 3/8"	15-H-4	76.1	16.200	U	54,000	34,560	24,000	17,633	13,500	10,667	8,640	7,140	6,000	4,408	3,375
	15-H-2	77.7		C	54,000	43,200	36,000	30,857	27,000	24,000	21,600	19,636	18,000	15,429	13,500
5" x 1/4"	15-H-4	56.6	13.333	U	44,444	28,444	19,753	14,512	11,111	8,779	7,111	5,877	4,938	3,628	2,778
	15-H-2	57.7		C	44,444	35,556	29,630	25,397	22,222	19,753	17,778	16,162	14,815	12,698	11,111
5" x 5/16"	15-H-4	70.7	16.667	U	55,556	35,556	24,691	18,141	13,889	10,974	8,889	7,346	6,173	4,535	3,472
	15-H-2	72.3		C	55,556	44,444	37,037	31,746	27,778	24,691	22,222	20,202	18,519	15,873	13,889
5" x 3/8"	15-H-4	84.4	20.000	U	66,667	42,667	29,630	21,769	16,667	13,169	10,667	8,815	7,407	5,442	4,167
	15-H-2	85.9		C	66,667	53,333	44,444	38,095	33,333	29,630	26,667	24,242	22,222	19,048	16,667
6" x 1/4"	15-H-4	67.7	19.200	U	64,000	40,960	28,444	20,898	16,000	12,642	10,240	8,463	7,111	5,224	4,000
	15-H-2	68.8		C	64,000	51,200	42,667	36,571	32,000	28,444	25,600	23,273	21,333	18,286	16,000
6" x 5/16"	15-H-4	84.6	24.000	U	80,000	51,200	35,556	26,122	20,000	15,802	12,800	10,579	8,889	6,531	5,000
	15-H-2	86.1		C	80,000	64,000	53,333	45,714	40,000	35,556	32,000	29,091	26,667	22,857	20,000
6" x 3/8"	15-H-4	100.9	28.800	U	96,000	61,440	42,667	31,347	24,000	18,963	15,360	12,694	10,667	7,837	6,000
	15-H-2	102.5		C	96,000	76,800	64,000	54,857	48,000	42,667	38,400	34,909	32,000	27,429	24,000

Note: H-Heavy Duty cross rods may extend 1/8" each side. Panel widths do not include these extensions.
For panel widths not shown in this table, please consult AMICO.

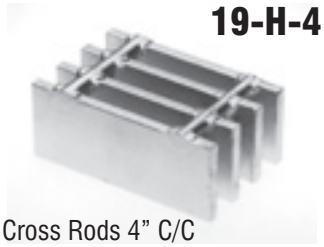
H-15 PANEL WIDTH (inches)

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

Heavy-Duty Steel Bar Grating

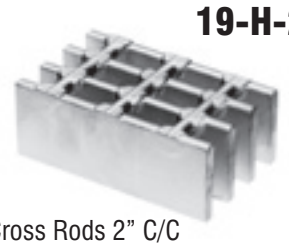
HEAVY-DUTY WELDED (H) 1-3/16" C/C Bearing Bars

19-H-4



Cross Rods 4" C/C

19-H-2



Cross Rods 2" C/C

NON-SERRATED & SERRATED

U = Allowable uniform load, psf

C = Allowable concentrated load per ft. of grating width, lbs.

Allowable stress = 20,000 psi

Material: ASTM A-36

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.

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval. For deflections of uniform, concentrated and vehicular loads, consult AMICO's engineering departments.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
1" x 1/4"	19-H-4	9.5		U	1,404	898	624	458	351	277	225	186	156	115	88
	19-H-2	10.1	0.421	C	1,404	1,123	936	802	702	624	561	510	468	401	351
1" x 5/16"	19-H-4	12.1		U	1,754	1,123	780	573	439	347	281	232	195	143	110
	19-H-2	13.3	0.526	C	1,754	1,404	1,170	1,003	877	780	702	638	585	501	439
1" x 3/8"	19-H-4	14.3		U	2,105	1,347	936	687	526	416	337	278	234	172	132
	19-H-2	15.4	0.632	C	2,105	1,684	1,404	1,203	1,053	936	842	766	702	602	526
1-1/4" x 1/4"	19-H-4	11.7		U	2,193	1,404	975	716	548	433	351	290	244	179	137
	19-H-2	12.3	0.658	C	2,193	1,754	1,462	1,253	1,096	975	877	797	731	627	548
1-1/4" x 5/16"	19-H-4	14.3		U	2,741	1,754	1,218	895	685	541	439	362	305	224	171
	19-H-2	16.0	0.822	C	2,741	2,193	1,827	1,566	1,371	1,218	1,096	997	914	783	685
1-1/4" x 3/8"	19-H-4	17.6		U	3,289	2,105	1,462	1,074	822	650	526	435	365	269	206
	19-H-2	18.7	0.987	C	3,289	2,632	2,193	1,880	1,645	1,462	1,316	1,196	1,096	940	822
1-1/2" x 1/4"	19-H-4	13.9		U	3,158	2,021	1,404	1,031	789	624	505	418	351	258	197
	19-H-2	14.5	0.947	C	3,158	2,526	2,105	1,805	1,579	1,404	1,263	1,148	1,053	902	789
1-1/2" x 5/16"	19-H-4	17.8		U	3,947	2,526	1,754	1,289	987	780	632	522	439	322	247
	19-H-2	18.8	1.184	C	3,947	3,158	2,632	2,256	1,974	1,754	1,579	1,435	1,316	1,128	987
1-1/2" x 3/8"	19-H-4	20.9		U	4,737	3,032	2,105	1,547	1,184	936	758	626	526	387	296
	19-H-2	22.0	1.421	C	4,737	3,789	3,158	2,707	2,368	2,105	1,895	1,722	1,579	1,353	1,184
1-3/4" x 1/4"	19-H-4	16.1		U	4,298	2,751	1,910	1,404	1,075	849	688	568	478	351	269
	19-H-2	16.7	1.289	C	4,298	3,439	2,865	2,456	2,149	1,910	1,719	1,563	1,433	1,228	1,075
1-3/4" x 5/16"	19-H-4	20.4		U	5,373	3,439	2,388	1,754	1,343	1,061	860	710	597	439	336
	19-H-2	21.5	1.612	C	5,373	4,298	3,582	3,070	2,686	2,388	2,149	1,954	1,791	1,535	1,343
1-3/4" x 3/8"	19-H-4	24.2		U	6,447	4,126	2,865	2,105	1,612	1,274	1,032	853	716	526	403
	19-H-2	25.3	1.934	C	6,447	5,158	4,298	3,684	3,224	2,865	2,579	2,344	2,149	1,842	1,612
2" x 1/4"	19-H-4	18.3		U	5,614	3,593	2,495	1,833	1,404	1,109	898	742	624	458	351
	19-H-2	18.9	1.684	C	5,614	4,491	3,743	3,208	2,807	2,495	2,246	2,041	1,871	1,604	1,404
2" x 5/16"	19-H-4	23.1		U	7,018	4,491	3,119	2,291	1,754	1,386	1,123	928	780	573	439
	19-H-2	24.6	2.105	C	7,018	5,614	4,678	4,010	3,509	3,119	2,807	2,552	2,339	2,005	1,754
2" x 3/8"	19-H-4	27.5		U	8,421	5,389	3,743	2,750	2,105	1,663	1,347	1,114	936	687	526
	19-H-2	28.6	2.526	C	8,421	6,737	5,614	4,812	4,211	3,743	3,368	3,062	2,807	2,406	2,105
2-1/4" x 1/4"	19-H-4	20.5		U	7,105	4,547	3,158	2,320	1,776	1,404	1,137	940	789	580	444
	19-H-2	21.1	2.132	C	7,105	5,684	4,737	4,060	3,553	3,158	2,842	2,584	2,368	2,030	1,776
2-1/4" x 5/16"	19-H-4	25.9		U	8,882	5,684	3,947	2,900	2,220	1,754	1,421	1,174	987	725	555
	19-H-2	27.0	2.664	C	8,882	7,105	5,921	5,075	4,441	3,947	3,553	3,230	2,961	2,538	2,220
2-1/4" x 3/8"	19-H-4	30.8		U	10,658	6,821	4,737	3,480	2,664	2,105	1,705	1,409	1,184	870	666
	19-H-2	31.9	3.197	C	10,658	8,526	7,105	6,090	5,329	4,737	4,263	3,876	3,553	3,045	2,664
2-1/2" x 1/4"	19-H-4	22.7		U	8,772	5,614	3,899	2,864	2,193	1,733	1,404	1,160	975	716	548
	19-H-2	23.3	2.632	C	8,772	7,018	5,848	5,013	4,386	3,899	3,509	3,190	2,924	2,506	2,193
2-1/2" x 5/16"	19-H-4	28.6		U	10,965	7,018	4,873	3,580	2,741	2,166	1,754	1,450	1,218	895	685
	19-H-2	29.8	3.289	C	10,965	8,772	7,310	6,266	5,482	4,873	4,386	3,987	3,655	3,133	2,741
2-1/2" x 3/8"	19-H-4	34.1		U	13,158	8,421	5,848	4,296	3,289	2,599	2,105	1,740	1,462	1,074	822
	19-H-2	35.2	3.947	C	13,158	10,526	8,772	7,519	6,579	5,848	5,263	4,785	4,386	3,759	3,289
2-3/4" x 1/4"	19-H-4	24.9		U	10,614	6,793	4,717	3,466	2,654	2,097	1,698	1,404	1,179	866	663
	19-H-2	25.6	3.184	C	10,614	8,491	7,076	6,065	5,307	4,717	4,246	3,860	3,538	3,033	2,654
2-3/4" x 5/16"	19-H-4	31.8		U	13,268	8,491	5,897	4,332	3,317	2,621	2,123	1,754	1,474	1,083	829
	19-H-2	33.3	3.980	C	13,268	10,614	8,845	7,581	6,634	5,897	5,307	4,825	4,423	3,791	3,317
2-3/4" x 3/8"	19-H-4	37.8		U	15,921	10,189	7,076	5,199	3,980	3,145	2,547	2,105	1,769	1,300	995
	19-H-2	39.3	4.776	C	15,921	12,737	10,614	9,098	7,961	7,076	6,368	5,789	5,307	4,549	3,980

Heavy-Duty Steel Bar Grating

Use our new bar grating calculator at **www.amico-grating.com/calculator**

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
3" x 1/4"	19-H-4	27.8	3.789	U	12,632	8,084	5,614	4,125	3,158	2,495	2,021	1,670	1,404	1,031	789
	19-H-2	28.7		C	12,632	10,105	8,421	7,218	6,316	5,614	5,053	4,593	4,211	3,609	3,158
3" x 5/16"	19-H-4	34.5	4.737	U	15,789	10,105	7,018	5,156	3,947	3,119	2,526	2,088	1,754	1,289	987
	19-H-2	36.1		C	15,789	12,632	10,526	9,023	7,895	7,018	6,316	5,742	5,263	4,511	3,947
3" x 3/8"	19-H-4	41.1	5.684	U	18,947	12,126	8,421	6,187	4,737	3,743	3,032	2,505	2,105	1,547	1,184
	19-H-2	42.6		C	18,947	15,158	12,632	10,827	9,474	8,421	7,579	6,890	6,316	5,414	4,737
3-1/4" x 1/4"	19-H-4	29.8	4.447	U	14,825	9,488	6,589	4,841	3,706	2,928	2,372	1,960	1,647	1,210	927
	19-H-2	30.9		C	14,825	11,860	9,883	8,471	7,412	6,589	5,930	5,391	4,942	4,236	3,706
3-1/4" x 5/16"	19-H-4	37.3	5.559	U	18,531	11,860	8,236	6,051	4,633	3,660	2,965	2,450	2,059	1,513	1,158
	19-H-2	38.8		C	18,531	14,825	12,354	10,589	9,265	8,236	7,412	6,738	6,177	5,294	4,633
3-1/4" x 3/8"	19-H-4	44.4	6.671	U	22,237	14,232	9,883	7,261	5,559	4,392	3,558	2,940	2,471	1,815	1,390
	19-H-2	45.9		C	22,237	17,789	14,825	12,707	11,118	9,883	8,895	8,086	7,412	6,353	5,559
3-1/2" x 1/4"	19-H-4	31.9	5.158	U	17,193	11,004	7,641	5,614	4,298	3,396	2,751	2,273	1,910	1,404	1,075
	19-H-2	33.1		C	17,193	13,754	11,462	9,825	8,596	7,641	6,877	6,252	5,731	4,912	4,298
3-1/2" x 5/16"	19-H-4	40.0	6.447	U	21,491	13,754	9,552	7,018	5,373	4,245	3,439	2,842	2,388	1,754	1,343
	19-H-2	41.6		C	21,491	17,193	14,327	12,281	10,746	9,552	8,596	7,815	7,164	6,140	5,373
3-1/2" x 3/8"	19-H-4	47.6	7.737	U	25,789	16,505	11,462	8,421	6,447	5,094	4,126	3,410	2,865	2,105	1,612
	19-H-2	49.2		C	25,789	20,632	17,193	14,737	12,895	11,462	10,316	9,378	8,596	7,368	6,447
4" x 1/4"	19-H-4	36.4	6.737	U	22,456	14,372	9,981	7,333	5,614	4,436	3,593	2,969	2,495	1,833	1,404
	19-H-2	37.5		C	22,456	17,965	14,971	12,832	11,228	9,981	8,982	8,166	7,485	6,416	5,614
4" x 5/16"	19-H-4	45.3	8.421	U	28,070	17,965	12,476	9,166	7,018	5,545	4,491	3,712	3,119	2,291	1,754
	19-H-2	47.1		C	28,070	22,456	18,713	16,040	14,035	12,476	11,228	10,207	9,357	8,020	7,018
4" x 3/8"	19-H-4	54.2	10.105	U	33,684	21,558	14,971	10,999	8,421	6,654	5,389	4,454	3,743	2,750	2,105
	19-H-2	55.8		C	33,684	26,947	22,456	19,248	16,842	14,971	13,474	12,249	11,228	9,624	8,421
4-1/2" x 1/4"	19-H-4	40.8	8.526	U	28,421	18,189	12,632	9,280	7,105	5,614	4,547	3,758	3,158	2,320	1,776
	19-H-2	41.9		C	28,421	22,737	18,947	16,241	14,211	12,632	11,368	10,335	9,474	8,120	7,105
4-1/2" x 5/16"	19-H-4	51.0	10.658	U	35,526	22,737	15,789	11,600	8,882	7,018	5,684	4,698	3,947	2,900	2,220
	19-H-2	52.6		C	35,526	28,421	23,684	20,301	17,763	15,789	14,211	12,919	11,842	10,150	8,882
4-1/2" x 3/8"	19-H-4	60.8	12.789	U	42,632	27,284	18,947	13,921	10,658	8,421	6,821	5,637	4,737	3,480	2,664
	19-H-2	62.4		C	42,632	34,105	28,421	24,361	21,316	18,947	17,053	15,502	14,211	12,180	10,658
5" x 1/4"	19-H-4	45.2	10.526	U	35,088	22,456	15,595	11,457	8,772	6,931	5,614	4,640	3,899	2,864	2,193
	19-H-2	46.3		C	35,088	28,070	23,392	20,050	17,544	15,595	14,035	12,759	11,696	10,025	8,772
5" x 5/16"	19-H-4	56.5	13.158	U	43,860	28,070	19,493	14,322	10,965	8,664	7,018	5,800	4,873	3,580	2,741
	19-H-2	58.1		C	43,860	35,088	29,240	25,063	21,930	19,493	17,544	15,949	14,620	12,531	10,965
5" x 3/8"	19-H-4	67.4	15.789	U	52,632	33,684	23,392	17,186	13,158	10,396	8,421	6,960	5,848	4,296	3,289
	19-H-2	68.9		C	52,632	42,105	35,088	30,075	26,316	23,392	21,053	19,139	17,544	15,038	13,158
6" x 1/4"	19-H-4	54.0	15.158	U	50,526	32,337	22,456	16,498	12,632	9,981	8,084	6,681	5,614	4,125	3,158
	19-H-2	55.2		C	50,526	40,421	33,684	28,872	25,263	22,456	20,211	18,373	16,842	14,436	12,632
6" x 5/16"	19-H-4	67.5	18.947	U	63,158	40,421	28,070	20,623	15,789	12,476	10,105	8,351	7,018	5,156	3,947
	19-H-2	69.1		C	63,158	50,526	42,105	36,090	31,579	28,070	25,263	22,967	21,053	18,045	15,789
6" x 3/8"	19-H-4	80.9	22.737	U	75,789	48,505	33,684	24,748	18,947	14,971	12,126	10,022	8,421	6,187	4,737
	19-H-2	82.1		C	75,789	60,632	50,526	43,308	37,895	33,684	30,316	27,560	25,263	21,654	18,947

Note: H-Heavy Duty cross rods may extend 1/8" each side. Panel widths do not include these extensions. For panel widths not shown in this table, please consult AMICO.

H-19 PANEL WIDTH (inches)

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 7/16	2 5/8	3 13/16	5	6 3/16	7 3/8	8 9/16	9 3/4	10 15/16	12 1/8	13 5/16	14 1/2	15 11/16	16 7/8	18 1/16	19 1/4	20 7/16	21 5/8	22 13/16
5/16" Bar	1 1/2	2 11/16	3 7/8	5 1/16	6 1/4	7 7/16	8 5/8	9 13/16	11	12 3/16	13 3/8	14 9/16	15 3/4	16 15/16	18 1/8	19 5/16	20 1/2	21 11/16	22 7/8
3/8" Bar	1 9/16	2 3/4	3 15/16	5 1/8	6 5/16	7 1/2	8 11/16	9 7/8	11 1/16	12 1/4	13 7/16	14 5/8	15 13/16	17	18 3/16	19 3/8	20 9/16	21 3/4	22 15/16

No. of Bars	21	22	23	24	25	26	27	28	29	30	31
1/4" Bar	24	25 3/16	26 3/8	27 9/16	28 3/4	29 15/16	31 1/8	32 5/16	33 1/2	34 11/16	35 7/8
5/16" Bar	24 1/16	25 1/4	26 7/16	27 5/8	28 13/16	30	31 3/16	32 3/8	33 9/16	34 3/4	35 15/16
3/8" Bar	24 1/8	25 5/16	26 1/2	27 11/16	28 7/8	30 1/16	31 1/4	32 7/16	33 5/8	34 13/16	36

Heavy-Duty Steel Bar Grating

HEAVY-DUTY WELDED (H) 1-3/8" C/C Bearing Bars

22-H-4

Cross Rods 4" C/C

22-H-2

Cross Rods 2" C/C

NON-SERRATED & SERRATED

U = Allowable uniform load, psf

C = Allowable concentrated load per ft. of grating width, lbs.

Allowable stress = 20,000 psi

Material: ASTM A-36

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.

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval. For deflections of uniform, concentrated and vehicular loads, consult AMICO's engineering departments.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
1" x 1/4"	22-H-4	8.3		U	1,212	776	539	396	303	239	194	160	135	99	76
	22-H-2	9.0	0.364	C	1,212	970	808	693	606	539	485	441	404	346	303
1" x 5/16"	22-H-4	10.7		U	1,515	970	673	495	379	299	242	200	168	124	95
	22-H-2	11.8	0.455	C	1,515	1,212	1,010	866	758	673	606	551	505	433	379
1" x 3/8"	22-H-4	12.6		U	1,818	1,164	808	594	455	359	291	240	202	148	114
	22-H-2	13.7	0.545	C	1,818	1,455	1,212	1,039	909	808	727	661	606	519	455
1-1/4" x 1/4"	22-H-4	10.2		U	1,894	1,212	842	618	473	374	303	250	210	155	118
	22-H-2	10.9	0.568	C	1,894	1,515	1,263	1,082	947	842	758	689	631	541	473
1-1/4" x 5/16"	22-H-4	13.1		U	2,367	1,515	1,052	773	592	468	379	313	263	193	148
	22-H-2	14.2	0.710	C	2,367	1,894	1,578	1,353	1,184	1,052	947	861	789	676	592
1-1/4" x 3/8"	22-H-4	15.4		U	2,841	1,818	1,263	928	710	561	455	376	316	232	178
	22-H-2	16.5	0.852	C	2,841	2,273	1,894	1,623	1,420	1,263	1,136	1,033	947	812	710
1-1/2" x 1/4"	22-H-4	12.1		U	2,727	1,745	1,212	891	682	539	436	361	303	223	170
	22-H-2	12.8	0.818	C	2,727	2,182	1,818	1,558	1,364	1,212	1,091	992	909	779	682
1-1/2" x 5/16"	22-H-4	15.4		U	3,409	2,182	1,515	1,113	852	673	545	451	379	278	213
	22-H-2	16.8	1.023	C	3,409	2,727	2,273	1,948	1,705	1,515	1,364	1,240	1,136	974	852
1-1/2" x 3/8"	22-H-4	18.3		U	4,091	2,618	1,818	1,336	1,023	808	655	541	455	334	256
	22-H-2	19.4	1.227	C	4,091	3,273	2,727	2,338	2,045	1,818	1,636	1,488	1,364	1,169	1,023
1-3/4" x 1/4"	22-H-4	14.0		U	3,712	2,376	1,650	1,212	928	733	594	491	412	303	232
	22-H-2	14.7	1.114	C	3,712	2,970	2,475	2,121	1,856	1,650	1,485	1,350	1,237	1,061	928
1-3/4" x 5/16"	22-H-4	17.8		U	4,640	2,970	2,062	1,515	1,160	917	742	614	516	379	290
	22-H-2	19.0	1.392	C	4,640	3,712	3,093	2,652	2,320	2,062	1,856	1,687	1,547	1,326	1,160
1-3/4" x 3/8"	22-H-4	21.4		U	5,568	3,564	2,475	1,818	1,392	1,100	891	736	619	455	348
	22-H-2	22.3	1.670	C	5,568	4,455	3,712	3,182	2,784	2,475	2,227	2,025	1,856	1,591	1,392
2" x 1/4"	22-H-4	16.0		U	4,848	3,103	2,155	1,583	1,212	958	776	641	539	396	303
	22-H-2	16.6	1.455	C	4,848	3,879	3,232	2,771	2,424	2,155	1,939	1,763	1,616	1,385	1,212
2" x 5/16"	22-H-4	20.2		U	6,061	3,879	2,694	1,979	1,515	1,197	970	801	673	495	379
	22-H-2	21.3	1.818	C	6,061	4,848	4,040	3,463	3,030	2,694	2,424	2,204	2,020	1,732	1,515
2" x 3/8"	22-H-4	24.0		U	7,273	4,655	3,232	2,375	1,818	1,437	1,164	962	808	594	455
	22-H-2	25.1	2.182	C	7,273	5,818	4,848	4,156	3,636	3,232	2,909	2,645	2,424	2,078	1,818
2-1/4" x 1/4"	22-H-4	17.9		U	6,136	3,927	2,727	2,004	1,534	1,212	982	811	682	501	384
	22-H-2	18.5	1.841	C	6,136	4,909	4,091	3,506	3,068	2,727	2,455	2,231	2,045	1,753	1,534
2-1/4" x 5/16"	22-H-4	22.6		U	7,670	4,909	3,409	2,505	1,918	1,515	1,227	1,014	852	626	479
	22-H-2	23.7	2.301	C	7,670	6,136	5,114	4,383	3,835	3,409	3,068	2,789	2,557	2,192	1,918
2-1/4" x 3/8"	22-H-4	26.9		U	9,205	5,891	4,091	3,006	2,301	1,818	1,473	1,217	1,023	751	575
	22-H-2	28.0	2.761	C	9,205	7,364	6,136	5,260	4,602	4,091	3,682	3,347	3,068	2,630	2,301
2-1/2" x 1/4"	22-H-4	19.8		U	7,576	4,848	3,367	2,474	1,894	1,496	1,212	1,002	842	618	473
	22-H-2	20.4	2.273	C	7,576	6,061	5,051	4,329	3,788	3,367	3,030	2,755	2,525	2,165	1,894
2-1/2" x 5/16"	22-H-4	25.0		U	9,470	6,061	4,209	3,092	2,367	1,871	1,515	1,252	1,052	773	592
	22-H-2	26.1	2.841	C	9,470	7,576	6,313	5,411	4,735	4,209	3,788	3,444	3,157	2,706	2,367
2-1/2" x 3/8"	22-H-4	29.7		U	11,364	7,273	5,051	3,711	2,841	2,245	1,818	1,503	1,263	928	710
	22-H-2	30.8	3.409	C	11,364	9,091	7,576	6,494	5,682	5,051	4,545	4,132	3,788	3,247	2,841
2-3/4" x 1/4"	22-H-4	21.7		U	9,167	5,867	4,074	2,993	2,292	1,811	1,467	1,212	1,019	748	573
	22-H-2	22.3	2.750	C	9,167	7,333	6,111	5,238	4,583	4,074	3,667	3,333	3,056	2,619	2,292
2-3/4" x 5/16"	22-H-4	27.8		U	11,458	7,333	5,093	3,741	2,865	2,263	1,833	1,515	1,273	935	716
	22-H-2	29.3	3.438	C	11,458	9,167	7,639	6,548	5,729	5,093	4,583	4,167	3,819	3,274	2,865
2-3/4" x 3/8"	22-H-4	33.0		U	13,750	8,800	6,111	4,490	3,438	2,716	2,200	1,818	1,528	1,122	859
	22-H-2	34.5	4.125	C	13,750	11,000	9,167	7,857	6,875	6,111	5,500	5,000	4,583	3,929	3,438

Heavy-Duty Steel Bar Grating

Use our new bar grating calculator at **www.amico-grating.com/calculator**

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
3" x 1/4"	22-H-4	24.1	3.273	U	10,909	6,982	4,848	3,562	2,727	2,155	1,745	1,443	1,212	891	682
	22-H-2	25.2		C	10,909	8,727	7,273	6,234	5,455	4,848	4,364	3,967	3,636	3,117	2,727
3" x 5/16"	22-H-4	30.2	4.091	U	13,636	8,727	6,061	4,453	3,409	2,694	2,182	1,803	1,515	1,113	852
	22-H-2	31.7		C	13,636	10,909	9,091	7,792	6,818	6,061	5,455	4,959	4,545	3,896	3,409
3" x 3/8"	22-H-4	35.8	4.909	U	16,364	10,473	7,273	5,343	4,091	3,232	2,618	2,164	1,818	1,336	1,023
	22-H-2	37.4		C	16,364	13,091	10,909	9,351	8,182	7,273	6,545	5,950	5,455	4,675	4,091
3-1/4" x 1/4"	22-H-4	26.0	3.841	U	12,803	8,194	5,690	4,181	3,201	2,529	2,048	1,693	1,423	1,045	800
	22-H-2	27.1		C	12,803	10,242	8,535	7,316	6,402	5,690	5,121	4,656	4,268	3,658	3,201
3-1/4" x 5/16"	22-H-4	32.6	4.801	U	16,004	10,242	7,113	5,226	4,001	3,161	2,561	2,116	1,778	1,306	1,000
	22-H-2	34.1		C	16,004	12,803	10,669	9,145	8,002	7,113	6,402	5,820	5,335	4,573	4,001
3-1/4" x 3/8"	22-H-4	38.7	5.761	U	19,205	12,291	8,535	6,271	4,801	3,793	3,073	2,539	2,134	1,568	1,200
	22-H-2	40.2		C	19,205	15,364	12,803	10,974	9,602	8,535	7,682	6,983	6,402	5,487	4,801
3-1/2" x 1/4"	22-H-4	27.9	4.455	U	14,848	9,503	6,599	4,848	3,712	2,933	2,376	1,963	1,650	1,212	928
	22-H-2	29.0		C	14,848	11,879	9,899	8,485	7,424	6,599	5,939	5,399	4,949	4,242	3,712
3-1/2" x 5/16"	22-H-4	34.9	5.568	U	18,561	11,879	8,249	6,061	4,640	3,666	2,970	2,454	2,062	1,515	1,160
	22-H-2	36.5		C	18,561	14,848	12,374	10,606	9,280	8,249	7,424	6,749	6,187	5,303	4,640
3-1/2" x 3/8"	22-H-4	41.6	6.682	U	22,273	14,255	9,899	7,273	5,568	4,400	3,564	2,945	2,475	1,818	1,392
	22-H-2	43.1		C	22,273	17,818	14,848	12,727	11,136	9,899	8,909	8,099	7,424	6,364	5,568
4" x 1/4"	22-H-4	31.7	5.818	U	19,394	12,412	8,620	6,333	4,848	3,831	3,103	2,564	2,155	1,583	1,212
	22-H-2	32.9		C	19,394	15,515	12,929	11,082	9,697	8,620	7,758	7,052	6,465	5,541	4,848
4" x 5/16"	22-H-4	39.7	7.273	U	24,242	15,515	10,774	7,916	6,061	4,789	3,879	3,206	2,694	1,979	1,515
	22-H-2	41.2		C	24,242	19,394	16,162	13,853	12,121	10,774	9,697	8,815	8,081	6,926	6,061
4" x 3/8"	22-H-4	47.3	8.727	U	29,091	18,618	12,929	9,499	7,273	5,746	4,655	3,847	3,232	2,375	1,818
	22-H-2	48.8		C	29,091	23,273	19,394	16,623	14,545	12,929	11,636	10,579	9,697	8,312	7,273
4-1/2" x 1/4"	22-H-4	35.6	7.364	U	24,545	15,709	10,909	8,015	6,136	4,848	3,927	3,246	2,727	2,004	1,534
	22-H-2	36.7		C	24,545	19,636	16,364	14,026	12,273	10,909	9,818	8,926	8,182	7,013	6,136
4-1/2" x 5/16"	22-H-4	44.5	9.205	U	30,682	19,636	13,636	10,019	7,670	6,061	4,909	4,057	3,409	2,505	1,918
	22-H-2	46.0		C	30,682	24,545	20,455	17,532	15,341	13,636	12,273	11,157	10,227	8,766	7,670
4-1/2" x 3/8"	22-H-4	53.0	11.045	U	36,818	23,564	16,364	12,022	9,205	7,273	5,891	4,869	4,091	3,006	2,301
	22-H-2	54.5		C	36,818	29,455	24,545	21,039	18,409	16,364	14,727	13,388	12,273	10,519	9,205
5" x 1/4"	22-H-4	39.4	9.091	U	30,303	19,394	13,468	9,895	7,576	5,986	4,848	4,007	3,367	2,474	1,894
	22-H-2	40.5		C	30,303	24,242	20,202	17,316	15,152	13,468	12,121	11,019	10,101	8,658	7,576
5" x 5/16"	22-H-4	49.3	11.364	U	37,879	24,242	16,835	12,369	9,470	7,482	6,061	5,009	4,209	3,092	2,367
	22-H-2	50.8		C	37,879	30,303	25,253	21,645	18,939	16,835	15,152	13,774	12,626	10,823	9,470
5" x 3/8"	22-H-4	58.7	13.636	U	45,455	29,091	20,202	14,842	11,364	8,979	7,273	6,011	5,051	3,711	2,841
	22-H-2	60.2		C	45,455	36,364	30,303	25,974	22,727	20,202	18,182	16,529	15,152	12,987	11,364
6" x 1/4"	22-H-4	47.0	13.091	U	43,636	27,927	19,394	14,249	10,909	8,620	6,982	5,770	4,848	3,562	2,727
	22-H-2	48.2		C	43,636	34,909	29,091	24,935	21,818	19,394	17,455	15,868	14,545	12,468	10,909
6" x 5/16"	22-H-4	58.8	16.364	U	54,545	34,909	24,242	17,811	13,636	10,774	8,727	7,213	6,061	4,453	3,409
	22-H-2	60.3		C	54,545	43,636	36,364	31,169	27,273	24,242	21,818	19,835	18,182	15,584	13,636
6" x 3/8"	22-H-4	70.1	19.636	U	65,455	41,891	29,091	21,373	16,364	12,929	10,473	8,655	7,273	5,343	4,091
	22-H-2	71.8		C	65,455	52,364	43,636	37,403	32,727	29,091	26,182	23,802	21,818	18,701	16,364

Note: H-Heavy Duty cross rods may extend 1/8" each side. Panel widths do not include these extensions. For panel widths not shown in this table, please consult AMICO.

H-22 PANEL WIDTH (inches)

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 5/8	3	4 3/8	5 3/4	7 1/8	8 1/2	9 7/8	11 1/4	12 5/8	14	15 3/8	16 3/4	18 1/8	19 1/2	20 7/8	22 1/4	23 5/8	25	26 3/8
5/16" Bar	1 11/16	3 1/16	4 7/16	5 13/16	7 3/16	8 9/16	9 15/16	11 5/16	12 11/16	14 1/16	15 7/16	16 13/16	18 3/16	19 9/16	20 15/16	22 5/16	23 11/16	25 1/16	26 7/16
3/8" Bar	1 3/4	3 1/8	4 1/2	5 7/8	7 1/4	8 5/8	10	11 3/8	12 3/4	14 1/8	15 1/2	16 7/8	18 1/4	19 5/8	21	22 3/8	23 3/4	25 1/8	26 1/2

No. of Bars	21	22	23	24	25	26	27
1/4" Bar	27 3/4	29 1/8	30 1/2	31 7/8	33 1/4	34 5/8	36
5/16" Bar	27 13/16	29 3/16	30 9/16	31 15/16	33 5/16	34 11/16	36 1/16
3/8" Bar	27 7/8	29 1/4	30 5/8	32	33 3/8	34 3/4	36 1/8

Heavy-Duty Steel Bar Grating

HEAVY-DUTY WELDED (W) 1-7/8" C/C Bearing Bars

30-H-4

Cross Rods 4" C/C

30-H-2

Cross Rods 2" C/C

NON-SERRATED & SERRATED

U = Allowable uniform load, psf

C = Allowable concentrated load per ft. of grating width, lbs.

Allowable stress = 20,000 psi

Material: ASTM A-36

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.

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval. For deflections of uniform, concentrated and vehicular loads, consult AMICO's engineering departments.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
1" x 1/4"	30-H-4	6.3		U	889	569	395	290	222	176	142	118	99	73	56
	30-H-2	7.0	0.267	C	889	711	593	508	444	395	356	323	296	254	222
1" x 5/16"	30-H-4	8.2		U	1,111	711	494	363	278	219	178	147	123	91	69
	30-H-2	9.4	0.333	C	1,111	889	741	635	556	494	444	404	370	317	278
1" x 3/8"	30-H-4	9.6		U	1,333	853	593	435	333	263	213	176	148	109	83
	30-H-2	10.8	0.400	C	1,333	1,067	889	762	667	593	533	485	444	381	333
1-1/4" x 1/4"	30-H-4	7.8		U	1,389	889	617	454	347	274	222	184	154	113	87
	30-H-2	8.4	0.417	C	1,389	1,111	926	794	694	617	556	505	463	397	347
1-1/4" x 5/16"	30-H-4	10.0		U	1,736	1,111	772	567	434	343	278	230	193	142	109
	30-H-2	11.1	0.521	C	1,736	1,389	1,157	992	868	772	694	631	579	496	434
1-1/4" x 3/8"	30-H-4	11.8		U	2,083	1,333	926	680	521	412	333	275	231	170	130
	30-H-2	12.9	0.625	C	2,083	1,667	1,389	1,190	1,042	926	833	758	694	595	521
1-1/2" x 1/4"	30-H-4	9.2		U	2,000	1,280	889	653	500	395	320	264	222	163	125
	30-H-2	9.8	0.600	C	2,000	1,600	1,333	1,143	1,000	889	800	727	667	571	500
1-1/2" x 5/16"	30-H-4	11.8		U	2,500	1,600	1,111	816	625	494	400	331	278	204	156
	30-H-2	12.9	0.750	C	2,500	2,000	1,667	1,429	1,250	1,111	1,000	909	833	714	625
1-1/2" x 3/8"	30-H-4	13.9		U	3,000	1,920	1,333	980	750	593	480	397	333	245	188
	30-H-2	15.0	0.900	C	3,000	2,400	2,000	1,714	1,500	1,333	1,200	1,091	1,000	857	750
1-3/4" x 1/4"	30-H-4	10.6		U	2,722	1,742	1,210	889	681	538	436	360	302	222	170
	30-H-2	11.3	0.817	C	2,722	2,178	1,815	1,556	1,361	1,210	1,089	990	907	778	681
1-3/4" x 5/16"	30-H-4	13.6		U	3,403	2,178	1,512	1,111	851	672	544	450	378	278	213
	30-H-2	14.7	1.021	C	3,403	2,722	2,269	1,944	1,701	1,512	1,361	1,237	1,134	972	851
1-3/4" x 3/8"	30-H-4	16.0		U	4,083	2,613	1,815	1,333	1,021	807	653	540	454	333	255
	30-H-2	17.1	1.225	C	4,083	3,267	2,722	2,333	2,042	1,815	1,633	1,485	1,361	1,167	1,021
2" x 1/4"	30-H-4	12.0		U	3,556	2,276	1,580	1,161	889	702	569	470	395	290	222
	30-H-2	12.7	1.067	C	3,556	2,844	2,370	2,032	1,778	1,580	1,422	1,293	1,185	1,016	889
2" x 5/16"	30-H-4	15.3		U	4,444	2,844	1,975	1,451	1,111	878	711	588	494	363	278
	30-H-2	16.5	1.333	C	4,444	3,556	2,963	2,540	2,222	1,975	1,778	1,616	1,481	1,270	1,111
2" x 3/8"	30-H-4	18.1		U	5,333	3,413	2,370	1,741	1,333	1,053	853	705	593	435	333
	30-H-2	19.3	1.600	C	5,333	4,267	3,556	3,048	2,667	2,370	2,133	1,939	1,778	1,524	1,333
2-1/4" x 1/4"	30-H-4	13.6		U	4,500	2,880	2,000	1,469	1,125	889	720	595	500	367	281
	30-H-2	14.1	1.350	C	4,500	3,600	3,000	2,571	2,250	2,000	1,800	1,636	1,500	1,286	1,125
2-1/4" x 5/16"	30-H-4	17.1		U	5,625	3,600	2,500	1,837	1,406	1,111	900	744	625	459	352
	30-H-2	18.2	1.688	C	5,625	4,500	3,750	3,214	2,813	2,500	2,250	2,045	1,875	1,607	1,406
2-1/4" x 3/8"	30-H-4	20.3		U	6,750	4,320	3,000	2,204	1,688	1,333	1,080	893	750	551	422
	30-H-2	21.4	2.025	C	6,750	5,400	4,500	3,857	3,375	3,000	2,700	2,455	2,250	1,929	1,688
2-1/2" x 1/4"	30-H-4	14.9		U	5,556	3,556	2,469	1,814	1,389	1,097	889	735	617	454	347
	30-H-2	15.3	1.667	C	5,556	4,444	3,704	3,175	2,778	2,469	2,222	2,020	1,852	1,587	1,389
2-1/2" x 5/16"	30-H-4	18.9		U	6,944	4,444	3,086	2,268	1,736	1,372	1,111	918	772	567	434
	30-H-2	20.0	2.083	C	6,944	5,556	4,630	3,968	3,472	3,086	2,778	2,525	2,315	1,984	1,736
2-1/2" x 3/8"	30-H-4	22.3		U	8,333	5,333	3,704	2,721	2,083	1,646	1,333	1,102	926	680	521
	30-H-2	23.5	2.500	C	8,333	6,667	5,556	4,762	4,167	3,704	3,333	3,030	2,778	2,381	2,083
2-3/4" x 1/4"	30-H-4	16.3		U	6,722	4,302	2,988	2,195	1,681	1,328	1,076	889	747	549	420
	30-H-2	17.0	2.017	C	6,722	5,378	4,481	3,841	3,361	2,988	2,689	2,444	2,241	1,921	1,681
2-3/4" x 5/16"	30-H-4	21.0		U	8,403	5,378	3,735	2,744	2,101	1,660	1,344	1,111	934	686	525
	30-H-2	22.6	2.521	C	8,403	6,722	5,602	4,802	4,201	3,735	3,361	3,056	2,801	2,401	2,101
2-3/4" x 3/8"	30-H-4	24.9		U	10,083	6,453	4,481	3,293	2,521	1,992	1,613	1,333	1,120	823	630
	30-H-2	26.4	3.025	C	10,083	8,067	6,722	5,762	5,042	4,481	4,033	3,667	3,361	2,881	2,521

Heavy-Duty Steel Bar Grating

Use our new bar grating calculator at **www.amico-grating.com/calculator**

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
3" x 1/4"	30-H-4	18.2	2.400	U	8,000	5,120	3,556	2,612	2,000	1,580	1,280	1,058	889	653	500
	30-H-2	19.3		C	8,000	6,400	5,333	4,571	4,000	3,556	3,200	2,909	2,667	2,286	2,000
3" x 5/16"	30-H-4	22.8	3.000	U	10,000	6,400	4,444	3,265	2,500	1,975	1,600	1,322	1,111	816	625
	30-H-2	24.4		C	10,000	8,000	6,667	5,714	5,000	4,444	4,000	3,636	3,333	2,857	2,500
3" x 3/8"	30-H-4	27.0	3.600	U	12,000	7,680	5,333	3,918	3,000	2,370	1,920	1,587	1,333	980	750
	30-H-2	28.6		C	12,000	9,600	8,000	6,857	6,000	5,333	4,800	4,364	4,000	3,429	3,000
3-1/4" x 1/4"	30-H-4	19.6	2.817	U	9,389	6,009	4,173	3,066	2,347	1,855	1,502	1,242	1,043	766	587
	30-H-2	20.7		C	9,389	7,511	6,259	5,365	4,694	4,173	3,756	3,414	3,130	2,683	2,347
3-1/4" x 5/16"	30-H-4	24.6	3.521	U	11,736	7,511	5,216	3,832	2,934	2,318	1,878	1,552	1,304	958	734
	30-H-2	26.1		C	11,736	9,389	7,824	6,706	5,868	5,216	4,694	4,268	3,912	3,353	2,934
3-1/4" x 3/8"	30-H-4	29.2	4.225	U	14,083	9,013	6,259	4,599	3,521	2,782	2,253	1,862	1,565	1,150	880
	30-H-2	30.7		C	14,083	11,267	9,389	8,048	7,042	6,259	5,633	5,121	4,694	4,024	3,521
3-1/2" x 1/4"	30-H-4	21.0	3.267	U	10,889	6,969	4,840	3,556	2,722	2,151	1,742	1,440	1,210	889	681
	30-H-2	22.2		C	10,889	8,711	7,259	6,222	5,444	4,840	4,356	3,960	3,630	3,111	2,722
3-1/2" x 5/16"	30-H-4	26.4	4.083	U	13,611	8,711	6,049	4,444	3,403	2,689	2,178	1,800	1,512	1,111	851
	30-H-2	27.9		C	13,611	10,889	9,074	7,778	6,806	6,049	5,444	4,949	4,537	3,889	3,403
3-1/2" x 3/8"	30-H-4	31.3	4.900	U	16,333	10,453	7,259	5,333	4,083	3,226	2,613	2,160	1,815	1,333	1,021
	30-H-2	32.8		C	16,333	13,067	10,889	9,333	8,167	7,259	6,533	5,939	5,444	4,667	4,083
4" x 1/4"	30-H-4	23.9	4.267	U	14,222	9,102	6,321	4,644	3,556	2,809	2,276	1,881	1,580	1,161	889
	30-H-2	29.0		C	14,222	11,378	9,481	8,127	7,111	6,321	5,689	5,172	4,741	4,063	3,556
4" x 5/16"	30-H-4	29.9	5.333	U	17,778	11,378	7,901	5,805	4,444	3,512	2,844	2,351	1,975	1,451	1,111
	30-H-2	31.5		C	17,778	14,222	11,852	10,159	8,889	7,901	7,111	6,465	5,926	5,079	4,444
4" x 3/8"	30-H-4	35.5	6.400	U	21,333	13,653	9,481	6,966	5,333	4,214	3,413	2,821	2,370	1,741	1,333
	30-H-2	37.1		C	21,333	17,067	14,222	12,190	10,667	9,481	8,533	7,758	7,111	6,095	5,333
4-1/2" x 1/4"	30-H-4	36.7	5.400	U	18,000	11,520	8,000	5,878	4,500	3,556	2,880	2,380	2,000	1,469	1,125
	30-H-2	27.9		C	18,000	14,400	12,000	10,286	9,000	8,000	7,200	6,545	6,000	5,143	4,500
4-1/2" x 5/16"	30-H-4	33.5	6.750	U	22,500	14,400	10,000	7,347	5,625	4,444	3,600	2,975	2,500	1,837	1,406
	30-H-2	35.0		C	22,500	18,000	15,000	12,857	11,250	10,000	9,000	8,182	7,500	6,429	5,625
4-1/2" x 3/8"	30-H-4	39.9	8.100	U	27,000	17,280	12,000	8,816	6,750	5,333	4,320	3,570	3,000	2,204	1,688
	30-H-2	41.3		C	27,000	21,600	18,000	15,429	13,500	12,000	10,800	9,818	9,000	7,714	6,750
5" x 1/4"	30-H-4	29.7	6.667	U	22,222	14,222	9,877	7,256	5,556	4,390	3,556	2,938	2,469	1,814	1,389
	30-H-2	30.7		C	22,222	17,778	14,815	12,698	11,111	9,877	8,889	8,081	7,407	6,349	5,556
5" x 5/16"	30-H-4	37.0	8.333	U	27,778	17,778	12,346	9,070	6,944	5,487	4,444	3,673	3,086	2,268	1,736
	30-H-2	38.6		C	27,778	22,222	18,519	15,873	13,889	12,346	11,111	10,101	9,259	7,937	6,944
5" x 3/8"	30-H-4	44.0	10.000	U	33,333	21,333	14,815	10,884	8,333	6,584	5,333	4,408	3,704	2,721	2,083
	30-H-2	45.6		C	33,333	26,667	22,222	19,048	16,667	14,815	13,333	12,121	11,111	9,524	8,333
6" x 1/4"	30-H-4	35.3	9.600	U	32,000	20,480	14,222	10,449	8,000	6,321	5,120	4,231	3,556	2,612	2,000
	30-H-2	36.4		C	32,000	25,600	21,333	18,286	16,000	14,222	12,800	11,636	10,667	9,143	8,000
6" x 5/16"	30-H-4	44.1	12.000	U	40,000	25,600	17,778	13,061	10,000	7,901	6,400	5,289	4,444	3,265	2,500
	30-H-2	45.7		C	40,000	32,000	26,667	22,857	20,000	17,778	16,000	14,545	13,333	11,429	10,000
6" x 3/8"	30-H-4	52.5	14.400	U	48,000	30,720	21,333	15,673	12,000	9,481	7,680	6,347	5,333	3,918	3,000
	30-H-2	54.0		C	48,000	38,400	32,000	27,429	24,000	21,333	19,200	17,455	16,000	13,714	12,000

Note: H-Heavy Duty cross rods may extend 1/8" each side. Panel widths do not include these extensions.
For panel widths not shown in this table, please consult AMICO.

H-30 PANEL WIDTH (inches)

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	2 1/8	4	5 7/8	7 3/4	9 5/8	11 1/2	13 3/8	15 1/4	17 1/8	19	20 7/8	22 3/4	24 5/8	26 1/2	28 3/8	30 1/4	32 1/8	34	35 7/8
5/16" Bar	2 3/16	4 1/16	5 15/16	7 13/16	9 11/16	11 9/16	13 7/16	15 5/16	17 3/16	19 1/16	20 15/16	22 13/16	24 11/16	26 9/16	28 7/16	30 5/16	32 3/16	34 1/16	35 15/16
3/8" Bar	2 1/4	4 1/8	6	7 7/8	9 3/4	11 5/8	13 1/2	15 3/8	17 1/4	19 1/8	21	22 7/8	24 3/4	26 5/8	28 1/2	30 3/8	32 1/4	34 1/8	36

Heavy-Duty Steel Bar Grating

HEAVY-DUTY WELDED (H) 2-3/8" C/C Bearing Bars

38-H-4

Cross Rods 4" C/C

38-H-2

Cross Rods 2" C/C

NON-SERRATED & SERRATED

U = Allowable uniform load, psf

C = Allowable concentrated load per ft. of grating width, lbs.

Allowable stress = 20,000 psi

Material: ASTM A-36

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.

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval. For deflections of uniform, concentrated and vehicular loads, consult AMICO's engineering departments.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
1" x 1/4"	38-H-4	5.2		U	702	449	312	229	175	139	112	93	78	57	44
	38-H-2	5.9	0.211	C	702	561	468	401	351	312	281	255	234	201	175
1" x 5/16"	38-H-4	6.8		U	877	561	390	286	219	173	140	116	97	72	55
	38-H-2	7.9	0.263	C	877	702	585	501	439	390	351	319	292	251	219
1" x 3/8"	38-H-4	7.9		U	1,053	674	468	344	263	208	168	139	117	86	66
	38-H-2	9.1	0.316	C	1,053	842	702	602	526	468	421	383	351	301	263
1-1/4" x 1/4"	38-H-4	6.3		U	1,096	702	487	358	274	217	175	145	122	90	69
	38-H-2	7.0	0.329	C	1,096	877	731	627	548	487	439	399	365	313	274
1-1/4" x 5/16"	38-H-4	8.2		U	1,371	877	609	448	343	271	219	181	152	112	86
	38-H-2	9.4	0.411	C	1,371	1,096	914	783	685	609	548	498	457	392	343
1-1/4" x 3/8"	38-H-4	9.6		U	1,645	1,053	731	537	411	325	263	217	183	134	103
	38-H-2	10.8	0.493	C	1,645	1,316	1,096	940	822	731	658	598	548	470	411
1-1/2" x 1/4"	38-H-4	7.5		U	1,579	1,011	702	516	395	312	253	209	175	129	99
	38-H-2	8.1	0.474	C	1,579	1,263	1,053	902	789	702	632	574	526	451	395
1-1/2" x 5/16"	38-H-4	9.6		U	1,974	1,263	877	644	493	390	316	261	219	161	123
	38-H-2	10.8	0.592	C	1,974	1,579	1,316	1,128	987	877	789	718	658	564	493
1-1/2" x 3/8"	38-H-4	11.3		U	2,368	1,516	1,053	773	592	468	379	313	263	193	148
	38-H-2	12.5	0.711	C	2,368	1,895	1,579	1,353	1,184	1,053	947	861	789	677	592
1-3/4" x 1/4"	38-H-4	8.6		U	2,149	1,375	955	702	537	425	344	284	239	175	134
	38-H-2	9.3	0.645	C	2,149	1,719	1,433	1,228	1,075	955	860	781	716	614	537
1-3/4" x 5/16"	38-H-4	11.1		U	2,686	1,719	1,194	877	672	531	430	355	298	219	168
	38-H-2	12.2	0.806	C	2,686	2,149	1,791	1,535	1,343	1,194	1,075	977	895	768	672
1-3/4" x 3/8"	38-H-4	13.0		U	3,224	2,063	1,433	1,053	806	637	516	426	358	263	201
	38-H-2	14.2	0.967	C	3,224	2,579	2,149	1,842	1,612	1,433	1,289	1,172	1,075	921	806
2" x 1/4"	38-H-4	9.8		U	2,807	1,796	1,248	917	702	554	449	371	312	229	175
	38-H-2	10.4	0.842	C	2,807	2,246	1,871	1,604	1,404	1,248	1,123	1,021	936	802	702
2" x 5/16"	38-H-4	12.5		U	3,509	2,246	1,559	1,146	877	693	561	464	390	286	219
	38-H-2	13.6	1.053	C	3,509	2,807	2,339	2,005	1,754	1,559	1,404	1,276	1,170	1,003	877
2" x 3/8"	38-H-4	14.7		U	4,211	2,695	1,871	1,375	1,053	832	674	557	468	344	263
	38-H-2	15.9	1.263	C	4,211	3,368	2,807	2,406	2,105	1,871	1,684	1,531	1,404	1,203	1,053
2-1/4" x 1/4"	38-H-4	10.9		U	3,553	2,274	1,579	1,160	888	702	568	470	395	290	222
	38-H-2	11.5	1.066	C	3,553	2,842	2,368	2,030	1,776	1,579	1,421	1,292	1,184	1,015	888
2-1/4" x 5/16"	38-H-4	13.9		U	4,441	2,842	1,974	1,450	1,110	877	711	587	493	363	278
	38-H-2	15.0	1.332	C	4,441	3,553	2,961	2,538	2,220	1,974	1,776	1,615	1,480	1,269	1,110
2-1/4" x 3/8"	38-H-4	16.4		U	5,329	3,411	2,368	1,740	1,332	1,053	853	705	592	435	333
	38-H-2	17.6	1.599	C	5,329	4,263	3,553	3,045	2,664	2,368	2,132	1,938	1,776	1,523	1,332
2-1/2" x 1/4"	38-H-4	12.0		U	4,386	2,807	1,949	1,432	1,096	866	702	580	487	358	274
	38-H-2	12.7	1.316	C	4,386	3,509	2,924	2,506	2,193	1,949	1,754	1,595	1,462	1,253	1,096
2-1/2" x 5/16"	38-H-4	15.3		U	5,482	3,509	2,437	1,790	1,371	1,083	877	725	609	448	343
	38-H-2	16.5	1.645	C	5,482	4,386	3,655	3,133	2,741	2,437	2,193	1,994	1,827	1,566	1,371
2-1/2" x 3/8"	38-H-4	18.1		U	6,579	4,211	2,924	2,148	1,645	1,300	1,053	870	731	537	411
	38-H-2	19.3	1.974	C	6,579	5,263	4,386	3,759	3,289	2,924	2,632	2,392	2,193	1,880	1,645
2-3/4" x 1/4"	38-H-4	13.2		U	5,307	3,396	2,359	1,733	1,327	1,048	849	702	590	433	332
	38-H-2	13.8	1.592	C	5,307	4,246	3,538	3,033	2,654	2,359	2,123	1,930	1,769	1,516	1,327
2-3/4" x 5/16"	38-H-4	17.2		U	6,634	4,246	2,948	2,166	1,658	1,310	1,061	877	737	542	415
	38-H-2	18.7	1.990	C	6,634	5,307	4,423	3,791	3,317	2,948	2,654	2,412	2,211	1,895	1,658
2-3/4" x 3/8"	38-H-4	20.2		U	7,961	5,095	3,538	2,599	1,990	1,572	1,274	1,053	885	650	498
	38-H-2	21.8	2.388	C	7,961	6,368	5,307	4,549	3,980	3,538	3,184	2,895	2,654	2,274	1,990

Heavy-Duty Steel Bar Grating

Use our new bar grating calculator at **www.amico-grating.com/calculator**

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
3" x 1/4"	38-H-4	14.9	1.895	U	6,316	4,042	2,807	2,062	1,579	1,248	1,011	835	702	516	395
	38-H-2	15.9		C	6,316	5,053	4,211	3,609	3,158	2,807	2,526	2,297	2,105	1,805	1,579
3" x 5/16"	38-H-4	18.6	2.368	U	7,895	5,053	3,509	2,578	1,974	1,559	1,263	1,044	877	644	493
	38-H-2	20.1		C	7,895	6,316	5,263	4,511	3,947	3,509	3,158	2,871	2,632	2,256	1,974
3" x 3/8"	38-H-4	21.9	2.842	U	9,474	6,063	4,211	3,093	2,368	1,871	1,516	1,253	1,053	773	592
	38-H-2	23.5		C	9,474	7,579	6,316	5,414	4,737	4,211	3,789	3,445	3,158	2,707	2,368
3-1/4" x 1/4"	38-H-4	15.9	2.224	U	7,412	4,744	3,294	2,420	1,853	1,464	1,186	980	824	605	463
	38-H-2	17.1		C	7,412	5,930	4,942	4,236	3,706	3,294	2,965	2,695	2,471	2,118	1,853
3-1/4" x 5/16"	38-H-4	20.0	2.780	U	9,265	5,930	4,118	3,025	2,316	1,830	1,482	1,225	1,029	756	579
	38-H-2	21.5		C	9,265	7,412	6,177	5,294	4,633	4,118	3,706	3,369	3,088	2,647	2,316
3-1/4" x 3/8"	38-H-4	23.6	3.336	U	11,118	7,116	4,942	3,631	2,780	2,196	1,779	1,470	1,235	908	695
	38-H-2	25.2		C	11,118	8,895	7,412	6,353	5,559	4,942	4,447	4,043	3,706	3,177	2,780
3-1/2" x 1/4"	38-H-4	17.1	2.579	U	8,596	5,502	3,821	2,807	2,149	1,698	1,375	1,137	955	702	537
	38-H-2	18.2		C	8,596	6,877	5,731	4,912	4,298	3,821	3,439	3,126	2,865	2,456	2,149
3-1/2" x 5/16"	38-H-4	21.4	3.224	U	10,746	6,877	4,776	3,509	2,686	2,123	1,719	1,421	1,194	877	672
	38-H-2	22.9		C	10,746	8,596	7,164	6,140	5,373	4,776	4,298	3,907	3,582	3,070	2,686
3-1/2" x 3/8"	38-H-4	25.3	3.868	U	12,895	8,253	5,731	4,211	3,224	2,547	2,063	1,705	1,433	1,053	806
	38-H-2	26.9		C	12,895	10,316	8,596	7,368	6,447	5,731	5,158	4,689	4,298	3,684	3,224
4" x 1/4"	38-H-4	19.3	3.368	U	11,228	7,186	4,990	3,666	2,807	2,218	1,796	1,485	1,248	917	702
	38-H-2	20.5		C	11,228	8,982	7,485	6,416	5,614	4,990	4,491	4,083	3,743	3,208	2,807
4" x 5/16"	38-H-4	24.2	4.211	U	14,035	8,982	6,238	4,583	3,509	2,772	2,246	1,856	1,559	1,146	877
	38-H-2	25.8		C	14,035	11,228	9,357	8,020	7,018	6,238	5,614	5,104	4,678	4,010	3,509
4" x 3/8"	38-H-4	28.	5.053	U	16,842	10,779	7,485	5,499	4,211	3,327	2,695	2,227	1,871	1,375	1,053
	38-H-2	30.3		C	16,842	13,474	11,228	9,624	8,421	7,485	6,737	6,124	5,614	4,812	4,211
4-1/2" x 1/4"	38-H-4	21.6	4.263	U	14,211	9,095	6,316	4,640	3,553	2,807	2,274	1,879	1,579	1,160	888
	38-H-2	22.7		C	14,211	11,368	9,474	8,120	7,105	6,316	5,684	5,167	4,737	4,060	3,553
4-1/2" x 5/16"	38-H-4	27.1	5.329	U	17,763	11,368	7,895	5,800	4,441	3,509	2,842	2,349	1,974	1,450	1,110
	38-H-2	28.6		C	17,763	14,211	11,842	10,150	8,882	7,895	7,105	6,459	5,921	5,075	4,441
4-1/2" x 3/8"	38-H-4	32.1	6.395	U	21,316	13,642	9,474	6,960	5,329	4,211	3,411	2,819	2,368	1,740	1,332
	38-H-2	33.7		C	21,316	17,053	14,211	12,180	10,658	9,474	8,526	7,751	7,105	6,090	5,329
5" x 1/4"	38-H-4	23.9	5.263	U	17,544	11,228	7,797	5,729	4,386	3,465	2,807	2,320	1,949	1,432	1,096
	38-H-2	25.0		C	17,544	14,035	11,696	10,025	8,772	7,797	7,018	6,380	5,848	5,013	4,386
5" x 5/16"	38-H-4	29.9	6.579	U	21,930	14,035	9,747	7,161	5,482	4,332	3,509	2,900	2,437	1,790	1,371
	38-H-2	31.5		C	21,930	17,544	14,620	12,531	10,965	9,747	8,772	7,974	7,310	6,266	5,482
5" x 3/8"	38-H-4	35.5	7.895	U	26,316	16,842	11,696	8,593	6,579	5,198	4,211	3,480	2,924	2,148	1,645
	38-H-2	37.1		C	26,316	21,053	17,544	15,038	13,158	11,696	10,526	9,569	8,772	7,519	6,579
6" x 1/4"	38-H-4	28.4	7.579	U	25,263	16,168	11,228	8,249	6,316	4,990	4,042	3,341	2,807	2,062	1,579
	38-H-2	29.8		C	25,263	20,211	16,842	14,436	12,632	11,228	10,105	9,187	8,421	7,218	6,316
6" x 5/16"	38-H-4	35.6	9.474	U	31,579	20,211	14,035	10,311	7,895	6,238	5,053	4,176	3,509	2,578	1,974
	38-H-2	37.1		C	31,579	25,263	21,053	18,045	15,789	14,035	12,632	11,483	10,526	9,023	7,895
6" x 3/8"	38-H-4	42.3	11.368	U	37,895	24,253	16,842	12,374	9,474	7,485	6,063	5,011	4,211	3,093	2,368
	38-H-2	43.9		C	37,895	30,316	25,263	21,654	18,947	16,842	15,158	13,780	12,632	10,827	9,474

Note: H-Heavy Duty cross rods may extend 1/8" each side. Panel widths do not include these extensions.
For panel widths not shown in this table, please consult AMICO.

H-38 PANEL WIDTH (inches)

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1/4" Bar	2 5/8	5	7 3/8	9 3/4	12 1/8	14 1/2	16 7/8	19 1/4	21 5/8	24	26 3/8	28 3/4	31 1/8	33 1/2	35 7/8
5/16" Bar	2 11/16	5 1/16	7 7/16	9 13/16	12 3/16	14 9/16	16 15/16	19 5/16	21 11/16	24 1/16	26 7/16	28 13/16	31 3/16	33 9/16	35 15/16
3/8" Bar	2 3/4	5 1/8	7 1/2	9 7/8	12 1/4	14 5/8	17	19 3/8	21 3/4	24 1/8	26 1/2	28 7/8	31 1/4	33 5/8	36

Custom Grating

AMICO is a premier manufacturer and fabricator of carbon, stainless and aluminum custom grating and frames. In addition, we fabricate pipe grates, hopper grates and grizzly grates. Our experienced sales and technical staff will accommodate and assist you with any custom load conditions and design requirements. For those applications that are beyond the capacity of our standard grating, our staff will assist you by recommending the appropriate custom grating solutions.

Riveted Grating

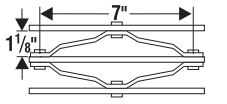
Riveted Bar Grating is the first choice by many engineers for many applications. Compared to welded or swaged-locked grating, riveted has a greater load carrying capacity for the same span and depth of grating. Reticulated bars, which are riveted to the bearing bars, increase resistance to buckling caused by vehicular loading conditions.

AMICO riveted carbon steel and aluminum gratings utilize rivets which are individually cold-pressed using hydraulically and mechanically operated riveting tools. Thus, the bearing bars and reticulated bars are sealed together as a high-strength joint.

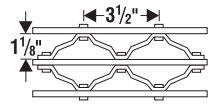
It is unparalleled where rolling stock and wheeled equipment are used, especially those with casters. The reticulated bars provide a smoother surface for this traffic. It is very popular for use as flooring, ramps, docks and other surfaces and it is ideally suited for walkways because of its added walking comfort.

AMICO can match your existing riveted grating when you are replacing or expanding your installation. On special order, heavy-duty bar sizes and/or widths greater than shown are also available.

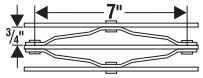
STEEL & ALUMINUM RIVETED GRATING



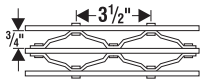
18-R-7



18-R-3



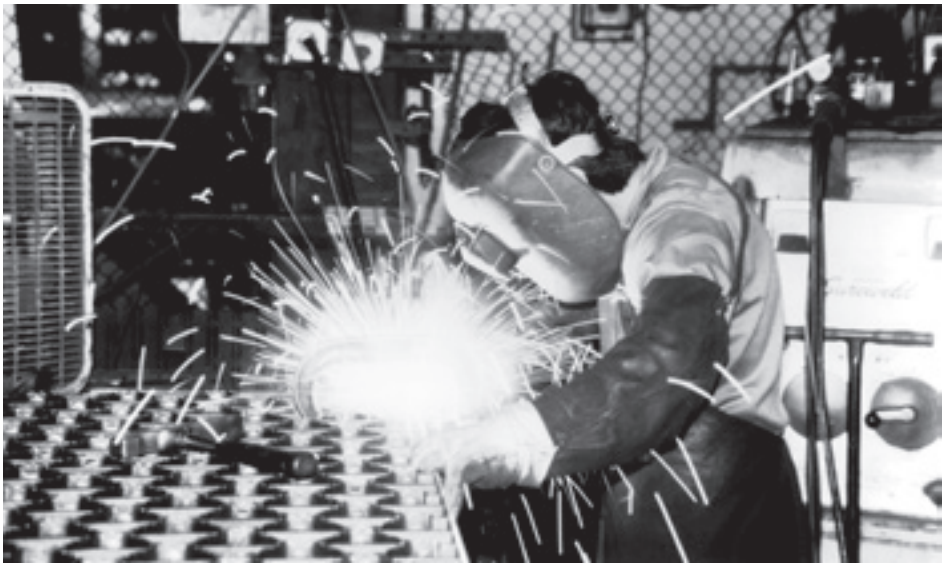
12-R-7



12-R-3

Note: Spacing for riveted grating is inside to inside of bearing bars.

Meets NAAMM's Metal Bar Grating Manual MBG 531



Riveted Bar Grating

ALUMINUM RIVETED GRATING 1-1/8" Inside Face to Inside Face of Bearing Bars

18-AR-7

7" Rivet Centers–
1/4" Dia. Rivets

18-AR-3

3-1/2" Rivet Centers–
1/4" Dia. Rivets

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable stress = 12,000 psi
Material: ASTM B-221

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval.

Serrated Bars: Normally we serrate the reticuline bar and raise it slightly above the top surface of the bearing bars. We can also serrate the bearing bars. When bearing bars are serrated, 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
1" x 1/8"	18-AR-7	2.7	0.200	3/4" x 1/8" CRIMP BAR	U 400	256	178	131	100	79	64	53					
					D 0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089					
	18-AR-3	3.0			C 400	320	267	229	200	178	160	145					
					D 0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
1" x 3/16"	18-AR-7	3.2	0.286		U 571	366	254	187	143	113	91	76					
					D 0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089					
	18-AR-3	3.6			C 571	457	381	327	286	254	229	208					
					D 0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
1-1/4" x 1/8"	18-AR-7	3.0	0.313		U 625	400	278	204	156	123	100	83	69	59	51		
					D 0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217	1.411		
	18-AR-3	3.4			C 625	500	417	357	313	278	250	227	208	192	179		
					D 0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129		
1-1/4" x 3/16"	18-AR-7	3.8	0.446		U 893	571	397	292	223	176	143	118	99	85	73		
					D 0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217	1.411		
	18-AR-3	4.1			C 893	714	595	510	446	397	357	325	298	275	255		
					D 0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129		
1-1/2" x 1/8"	18-AR-7	3.8	0.450		U 900	576	400	294	225	178	144	119	100	85	73	56	44
					D 0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176	1.536	1.944
	18-AR-3	4.2			C 900	720	600	514	450	400	360	327	300	277	257	225	200
					D 0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941	1.229	1.555
1-1/2" x 3/16"	18-AR-7	4.6	0.643		U 1286	823	571	420	321	254	206	170	143	122	105	80	63
					D 0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176	1.536	1.944
	18-AR-3	5.0			C 1286	1029	857	735	643	571	514	468	429	396	367	321	286
					D 0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941	1.229	1.555
1-3/4" x 3/16"	18-AR-7	5.1	0.875	1" x 1/8" CRIMP BAR	U 1750	1120	778	571	438	346	280	231	194	166	143	109	86
					D 0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.317	1.666
	18-AR-3	5.6			C 1750	1400	1167	1000	875	778	700	636	583	538	500	438	389
					D 0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.053	1.333
2" x 3/16"	18-AR-7	5.7	1.143		U 2286	1463	1016	746	571	451	366	302	254	216	187	143	113
					D 0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458
	18-AR-3	6.1			C 2286	1829	1524	1306	1143	1016	914	831	762	703	653	571	508
					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
2-1/4" x 3/16"	18-AR-7	6.2	1.446		U 2893	1851	1286	945	723	571	463	383	321	274	236	181	143
					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
	18-AR-3	6.6			C 2893	2314	1929	1653	1446	1286	1157	1052	964	890	827	723	643
					D 0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	18-AR-7	6.7	1.786		U 3571	2286	1587	1166	893	705	571	472	397	338	292	223	176
					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
	18-AR-3	7.1			C 3571	2857	2381	2041	1786	1587	1429	1299	1190	1099	1020	893	794
					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

18-AR-7 & 18-AR-3 PANEL WIDTH (inches)

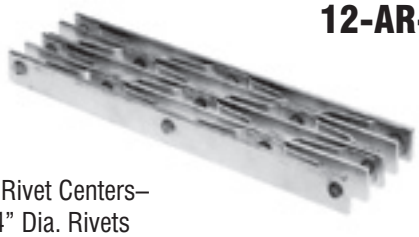
Note: Dimensions include 1/4" for rivet heads (1/8" each side).
For panel widths not shown in this table, please consult AMICO.

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1/8" Bar	1 5/8	2 7/8	4 1/8	5 3/8	6 5/8	7 7/8	9 1/8	10 3/8	11 5/8	12 7/8	14 1/8	15 3/8	16 5/8	17 7/8	19 1/8	20 3/8
3/16" Bar	1 3/4	3 1/16	4 3/8	5 11/16	7	8 5/16	9 5/8	10 15/16	12 1/4	13 9/16	14 7/8	16 3/16	17 1/2	18 13/16	20 1/8	21 7/16
No. of Bars	18	19	20	21	22	23	24	25	26	27	28	29	30			
1/8" Bar	21 5/8	22 7/8	24 1/8	25 3/8	26 5/8	27 7/8	29 1/8	30 3/8	31 5/8	32 7/8	34 1/8	35 3/8	36 5/8			
3/16" Bar	22 3/4	24 1/16	25 3/8	26 11/16	28	29 5/16	30 5/8	31 15/16	33 1/4	34 9/16	35 7/8	37 3/16	38 1/2			

Use our new bar grating calculator at
www.amico-grating.com/calculator

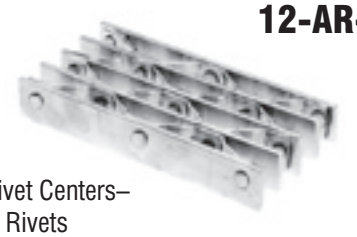
ALUMINUM RIVETED GRATING 3/4" Inside Face to Inside Face of Bearing Bars

12-AR-7



7" Rivet Centers–
1/4" Dia. Rivets

12-AR-3



3-1/2" Rivet Centers–
1/4" Dia. Rivets

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable stress = 12,000 psi
Material: ASTM B-221

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval.

Serrated Bars: Normally we serrate the reticuline bar and raise it slightly above the top surface of the bearing bars. We can also serrate the bearing bars. When bearing bars are serrated, 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
1" x 1/8"	12-AR-7	3.7	0.286	3/4" x 1/8" CRIMP BAR	U 571	366	254	187	143	113	91	76					
					D 0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089					
	12-AR-3	4.0			C 571	457	381	327	286	254	229	208					
					D 0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
1" x 3/16"	12-AR-7	4.4	0.400		U 800	512	356	261	200	158	128	106					
					D 0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089					
	12-AR-3	4.7			C 800	640	533	457	400	356	320	291					
					D 0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
1-1/4" x 1/8"	12-AR-7	4.2	0.446		U 893	571	397	292	223	176	143	118	99	85	73		
					D 0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217	1.411		
	12-AR-3	4.5			C 893	714	595	510	446	397	357	325	298	275	255		
					D 0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129		
1-1/4" x 3/16"	12-AR-7	5.1	0.625		U 1250	800	556	408	313	247	200	165	139	118	102		
					D 0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217	1.411		
	12-AR-3	5.4			C 1250	1000	833	714	625	556	500	455	417	385	357		
					D 0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129		
1-1/2" x 1/8"	12-AR-7	5.2	0.643		U 1286	823	571	420	321	254	206	170	143	122	105	80	63
					D 0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176	1.536	1.944
	12-AR-3	5.6			C 1286	1029	857	735	643	571	514	468	429	396	367	321	286
					D 0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941	1.229	1.555
1-1/2" x 3/16"	12-AR-7	6.3	0.900		U 1800	1152	800	588	450	356	288	238	200	170	147	113	89
					D 0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176	1.536	1.944
	12-AR-3	6.6			C 1800	1440	1200	1029	900	800	720	655	600	554	514	450	400
					D 0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941	1.229	1.555
1-3/4" x 3/16"	12-AR-7	7.1	1.225	1" x 1/8" CRIMP BAR	U 2450	1568	1089	800	613	484	392	324	272	232	200	153	121
					D 0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.317	1.666
	12-AR-3	7.4			C 2450	1960	1633	1400	1225	1089	980	891	817	754	700	613	544
					D 0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.053	1.333
2" x 3/16"	12-AR-7	7.8	1.600		U 3200	2048	1422	1045	800	632	512	423	356	303	261	200	158
					D 0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458
	12-AR-3	8.1			C 3200	2560	2133	1829	1600	1422	1280	1164	1067	985	914	800	711
					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
2-1/4" x 3/16"	12-AR-7	8.5	2.025		U 4050	2592	1800	1322	1013	800	648	536	450	383	331	253	200
					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
	12-AR-3	8.8			C 4050	3240	2700	2314	2025	1800	1620	1473	1350	1246	1157	1013	900
					D 0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	12-AR-7	9.2	2.500		U 5000	3200	2222	1633	1250	988	800	661	556	473	408	313	247
					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
	12-AR-3	9.5			C 5000	4000	3333	2857	2500	2222	2000	1818	1667	1538	1429	1250	1111
					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

12-AR-7 & 12-AR-3 PANEL WIDTH (inches)

Note: Dimensions include 1/4" for rivet heads (1/8" each side).
For panel widths not shown in this table, please consult AMICO.

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
1/8" Bar	1 1/4	2 1/8	3	3 7/8	4 3/4	5 5/8	6 1/2	7 3/8	8 1/4	9 1/8	10	10 7/8	11 3/4	12 5/8	13 1/2	14 3/8	15 1/4	16 1/8	17	17 7/8	18 3/4	19 5/8	20 1/2	21 3/8
3/16" Bar	1 3/8	2 5/16	3 1/4	4 3/16	5 1/8	6 1/16	7	7 15/16	8 7/8	9 13/16	10 3/4	11 11/16	12 5/8	13 9/16	14 1/2	15 7/16	16 3/8	17 5/16	18 1/4	19 3/16	20 1/8	21 1/16	22	22 15/16

No. of Bars	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
1/8" Bar	22 1/4	23 1/8	24	24 7/8	25 3/4	26 5/8	27 1/2	28 3/8	29 1/4	30 1/8	31	31 7/8	32 3/4	33 5/8	34 1/2	35 3/8	36 1/4
3/16" Bar	23 7/8	24 13/16	25 3/4	26 11/16	27 5/8	28 9/16	29 1/2	30 7/16	31 3/8	32 5/16	33 1/4	34 3/16	35 1/8	36 1/16	37	37 15/16	38 7/8

Riveted Bar Grating

STEEL RIVETED GRATING 1-1/8" Inside Face to Inside Face of Bearing Bars

18-R-7

7" Rivet Centers–1/4" Dia. Rivets

18-R-3

3-1/2" Rivet Centers–1/4" Dia. Rivets

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: ASTM A-1011

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval.

Serrated Bars: Normally we serrate the reticuline bar and raise it slightly above the top surface of the bearing bars. We can also serrate the bearing bars. When bearing bars are serrated, 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8"	18-R-7	6.5	0.113	3/4" x 1/8" CRIMP BAR	U 338	216	150	110	84	67							
					D 0.099	0.155	0.223	0.304	0.397	0.503							
	18-R-3	7.3			C 338	270	225	193	169	150							
					D 0.079	0.124	0.179	0.243	0.318	0.402							
3/4" x 3/16"	18-R-7	7.7	0.161		U 482	309	214	157	121	95							
					D 0.099	0.155	0.223	0.304	0.397	0.503							
	18-R-3	8.4			C 482	386	321	276	241	214							
					D 0.079	0.124	0.179	0.243	0.318	0.402							
1" x 1/8"	18-R-7	7.5	0.200		U 600	384	267	196	150	119	96	79					
					D 0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563					
	18-R-3	8.3			C 600	480	400	343	300	267	240	218					
					D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451					
1" x 3/16"	18-R-7	9.2	0.286		U 857	549	381	280	214	169	137	113					
					D 0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563					
	18-R-3	9.9			C 857	686	571	490	429	381	343	312					
					D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451					
1-1/4" x 1/8"	18-R-7	8.6	0.313		U 938	600	417	306	234	185	150	124	104	89	77		
					D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	18-R-3	9.4			C 938	750	625	536	469	417	375	341	313	288	268		
					D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	18-R-7	10.7	0.446		U 1339	857	595	437	335	265	214	177	149	127	109		
					D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	18-R-3	11.4			C 1339	1071	893	765	670	595	536	487	446	412	383		
					D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/2" x 1/8"	18-R-7	10.7	0.450		U 1350	864	600	441	338	267	216	179	150	128	110	84	67
					D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	18-R-3	11.7			C 1350	1080	900	771	675	600	540	491	450	415	386	338	300
					D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	18-R-7	13.2	0.643		U 1929	1234	857	630	482	381	309	255	214	183	157	121	95
					D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	18-R-3	14.2			C 1929	1543	1286	1102	964	857	771	701	643	593	551	482	429
					D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	18-R-7	14.7	0.875	1" x 1/8" CRIMP BAR	U 2625	1680	1167	857	656	519	420	347	292	249	214	164	130
					D 0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	18-R-3	15.7			C 2625	2100	1750	1500	1313	1167	1050	955	875	808	750	656	583
					D 0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	18-R-7	16.2	1.143		U 3429	2194	1524	1120	857	677	549	453	381	325	280	214	169
					D 0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	18-R-3	17.2			C 3429	2743	2286	1959	1714	1524	1371	1247	1143	1055	980	857	762
					D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"	18-R-7	17.7	1.446		U 4339	2777	1929	1417	1085	857	694	574	482	411	354	271	214
					D 0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	18-R-3	18.7			C 4339	3471	2893	2480	2170	1929	1736	1578	1446	1335	1240	1085	964
					D 0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	18-R-7	19.2	1.786		U 5357	3429	2381	1749	1339	1058	857	708	595	507	437	335	265
					D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	18-R-3	20.2			C 5357	4286	3571	3061	2679	2381	2143	1948	1786	1648	1531	1339	1190
					D 0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

18-R-7 & 18-R-3 PANEL WIDTH (inches)

Note: Dimensions include 1/4" for rivet heads (1/8" each side).
For panel widths not shown in this table, please consult AMICO.

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1/8" Bar	1 5/8	2 7/8	4 1/8	5 3/8	6 5/8	7 7/8	9 1/8	10 3/8	11 5/8	12 7/8	14 1/8	15 3/8	16 5/8	17 7/8	19 1/8	20 3/8
3/16" Bar	1 3/4	3 1/16	4 3/8	5 11/16	7	8 5/16	9 5/8	10 15/16	12 1/4	13 9/16	14 7/8	16 3/16	17 1/2	18 13/16	20 1/8	21 7/16
No. of Bars	18	19	20	21	22	23	24	25	26	27	28	29	30			
1/8" Bar	21 5/8	22 7/8	24 1/8	25 3/8	26 5/8	27 7/8	29 1/8	30 3/8	31 5/8	32 7/8	34 1/8	35 3/8	36 5/8			
3/16" Bar	22 3/4	24 1/16	25 3/8	26 11/16	28	29 5/16	30 5/8	31 15/16	33 1/4	34 9/16	35 7/8	37 3/16	38 1/2			

Riveted Bar Grating

Use our new bar grating calculator at **www.amico-grating.com/calculator**

STEEL RIVETED GRATING 3/4" Inside Face to Inside Face of Bearing Bars

12-R-7

7" Rivet Centers–1/4" Dia. Rivets

12-R-3

3-1/2" Rivet Centers–1/4" Dia. Rivets

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable stress = 18,000 psi
Material: ASTM A-1011

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides maximum pedestrian comfort. These can be exceeded for other types of loads with engineer's approval.

Serrated Bars: Normally we serrate the reticuline bar and raise it slightly above the top surface of the bearing bars. We can also serrate the bearing bars. When bearing bars are serrated, 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8"	12-R-7	9.0	0.161	3/4" x 1/8" CRIMP BAR	U 482	309	214	157	121	95							
					D 0.099	0.155	0.223	0.304	0.397	0.503							
	12-R-3	9.6			C 482	386	321	276	241	214							
					D 0.079	0.124	0.179	0.243	0.318	0.402							
3/4" x 3/16"	12-R-7	10.5	0.225		U 675	432	300	220	169	133	108						
					D 0.099	0.155	0.223	0.304	0.397	0.503	0.621						
	12-R-3	11.0			C 675	540	450	386	338	300	270						
					D 0.079	0.124	0.179	0.243	0.318	0.402	0.497						
1" x 1/8"	12-R-7	10.5	0.286		U 857	549	381	280	214	169	137	113					
					D 0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563					
	12-R-3	11.1			C 857	686	571	490	429	381	343	312					
					D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451					
1" x 3/16"	12-R-7	12.6	0.400		U 1200	768	533	392	300	237	192	159	133				
					D 0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
	12-R-3	13.1			C 1200	960	800	686	600	533	480	436	400				
					D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1-1/4" x 1/8"	12-R-7	12.0	0.446		U 1339	857	595	437	335	265	214	177	149	127	109		
					D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	12-R-3	12.6			C 1339	1071	893	765	670	595	536	487	446	412	383		
					D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	12-R-7	14.7	0.625		U 1875	1200	833	612	469	370	300	248	208	178	153		
					D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	12-R-3	15.2			C 1875	1500	1250	1071	938	833	750	682	625	577	536		
					D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/2" x 1/8"	12-R-7	15.0	0.643		U 1929	1234	857	630	482	381	309	255	214	183	157	121	95
					D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	12-R-3	15.7			C 1929	1543	1286	1102	964	857	771	701	643	593	551	482	429
					D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	12-R-7	18.1	0.900		U 2700	1728	1200	882	675	533	432	357	300	256	220	169	133
					D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	12-R-3	18.8			C 2700	2160	1800	1543	1350	1200	1080	982	900	831	771	675	600
					D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	12-R-7	20.2	1.225	1" x 1/8" CRIMP BAR	U 3675	2352	1633	1200	919	726	588	486	408	348	300	230	181
					D 0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	12-R-3	20.9			C 3675	2940	2450	2100	1838	1633	1470	1336	1225	1131	1050	919	817
					D 0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	12-R-7	22.3	1.600		U 4800	3072	2133	1567	1200	948	768	635	533	454	392	300	237
					D 0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	12-R-3	23.0			C 4800	3840	3200	2743	2400	2133	1920	1745	1600	1477	1371	1200	1067
					D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"	12-R-7	24.4	2.025		U 6075	3888	2700	1984	1519	1200	972	803	675	575	496	380	300
					D 0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	12-R-3	25.1			C 6075	4860	4050	3471	3038	2700	2430	2209	2025	1869	1736	1519	1350
					D 0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	12-R-7	26.5	2.500		U 7500	4800	3333	2449	1875	1481	1200	992	833	710	612	469	370
					D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	12-R-3	27.1			C 7500	6000	5000	4286	3750	3333	3000	2727	2500	2308	2143	1875	1667
					D 0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

12-R-7 & 12-R-3 PANEL WIDTH (inches)

Note: Dimensions include 1/4" for rivet heads (1/8" each side).
For panel widths not shown in this table, please consult AMICO.

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

Riv-Dexteel® Bridge Deck Grating

Compared to other surfaces, Riv-Dexteel® is relatively lightweight and frequently permits bridge widening without an appreciable increase in bridge weight. It often allows resurfacing to handle heavier loads without expensive substructure work.

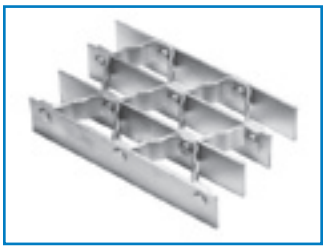
It is ideal where flooding, snow build up or icing is a potential problem since its openness permits passage of snow and water that a solid surface does not allow.

In addition to its common applications as bridge decking and curb inlet grates, it has wide applications in industrial flooring areas, plant loading areas, driveways across culverts and other heavy traffic areas.

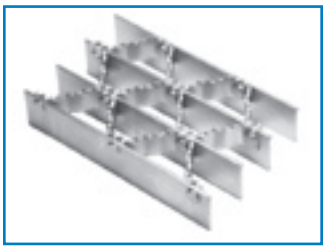
Riv-Dexteel® is available in an RL and RH design. RL Riv-Dexteel® has bearing bars spaced 2-1/2" to 2-11/16", depending on the bar thickness. Reticulated bars are 1-1/2"x3/16" for all RH types and RL types with bearing bar heights 3" or below, and 2"x3/16" for RL types with bearing bar heights 3-1/2" or above. RL is available in both plain and serrated surfaces.

RH Riv-Dexteel® has bearing bars spaced 5-1/8" to 5-1/4" with 3/16" x 1-1/2" reticulated bars and 1/4" x 1-1/2" intermediate bars. In addition, RH has 1/2" by 3/4" tie bars for additional lateral stability. RH is also available with both plain and serrated surfaces.

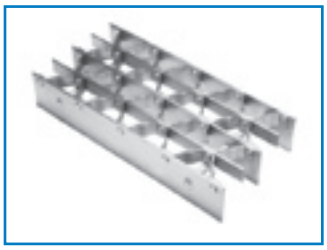
Upon request, other bearing bar depths and thicknesses are available.



RL Plain Surface



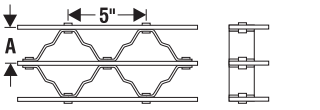
RL Serrated



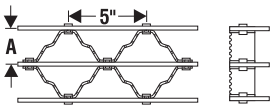
RH Plain Surface

RH Serrated

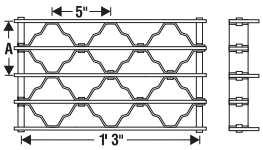
STEEL RIVETED GRATING



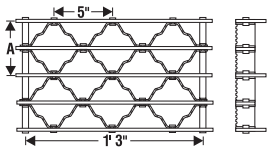
RL PLAIN SURFACE



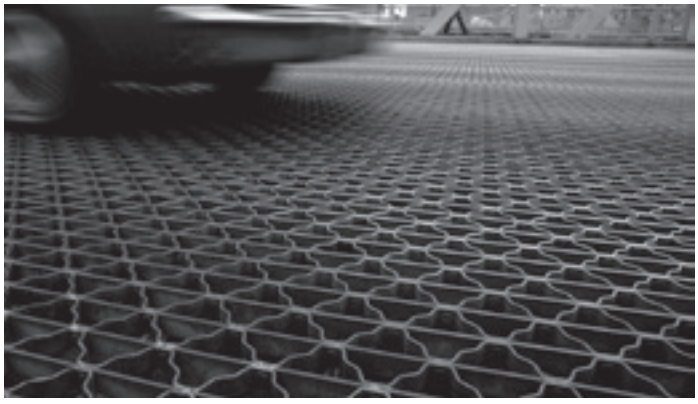
RL SERRATED SURFACE



RH PLAIN SURFACE



RH SERRATED SURFACE



BASIS FOR DESIGN

The design of the Riv-Dexteel Bridge Deck Grating is in accordance with AASHTO Standard Specifications for Highway Bridges (17th edition) and NAAMM Metal Bar Grating Engineering Design Manual (MBG 534-12). The allowable fiber stress is 20,000psi; the allowable deflection is the lesser of L/400 or 1/8in. AMICO recommends bearing bars to be installed parallel to traffic. If the owner's engineer specifies placement perpendicular to traffic, measures should be taken to minimize the effect of out-of-place bending of bars due to vehicle acceleration and breaking. The engineer must specify hold down anchors at ends and supports as necessary.

SERRATED BARS

Normally we serrate the reticulate bar and raise it slightly above the top surface of the bearing bars. We can also serrate the bearing bars. When bearing bars are serrated, the depth of grating required for a specified load is 1/4" deeper than that shown in the table.

PANEL WIDTH (inches)

Note: Dimension includes 1/4" (1/8" each side) for rivet heads. Rivet heads vary with bearing bar thickness.

Riv-Dexteel	Bar Thickness	Bar Spacing "A"	Number of Bearing Bars 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Type RL	3/16"	2 1/2"	2 15/16	5 7/16	7 15/16	10 7/16	12 15/16	15 7/16	17 15/16	20 7/16	22 15/16	25 7/16	27 15/16	30 7/16	32 15/16	35 7/16	37 15/16	40 7/16	42 15/16	45 7/16	47 15/16
	1/4"	2 9/16"	3 1/16	5 5/8	8 3/16	10 3/4	13 5/16	15 7/8	18 7/16	21	23 9/16	26 1/8	28 11/16	31 1/4	33 13/16	36 3/8	38 15/16	41 1/2	44 1/16	46 5/8	49 3/16
	5/16"	2 5/8"	3 3/16	5 13/16	8 7/16	11 1/16	13 11/16	16 5/16	18 15/16	21 9/16	24 3/16	26 13/16	29 7/16	32 1/16	34 11/16	37 5/16	39 15/16	42 9/16	45 3/16	47 13/16	50 7/16
	3/8"	2 11/16"	3 5/16	6	8 11/16	11 3/8	14 1/16	16 3/4	19 7/16	22 1/8	24 13/16	27 1/2	30 3/16	32 7/8	35 9/16	38 1/4	40 15/16	43 5/8	46 5/16	49	51 11/16
Type RH	1/4"	5 1/8"	5 5/8	10 3/4	15 7/8	21	26 1/8	31 1/4	36 3/8	41 1/2	46 5/8	51 3/4	56 7/8								
	5/16"	5 3/16"	5 3/4	10 15/16	16 1/8	21 5/16	26 1/2	31 11/16	36 7/8	42 1/16	47 1/4	52 7/16	57 5/8								
	3/8"	5 1/4"	5 7/8	11 1/8	16 3/8	21 5/8	26 7/8	32 1/8	37 3/8	42 5/8	47 7/8	53 1/8	58 3/8								

For panel widths not shown in this table, please consult AMICO.

Vehicle Load Table

Type	Bearing Bar Size	Sec. Mod. per ft. width (in³) S_B Bottom	S_T Top	Moment of Inertia per ft. width (in⁴)	Weight (psf)	"A" Bearing Bar Spacing (in)	Allowable Clear Span (in) H-25	H-20	H-15	Passgr Vehicles	5-ton Forklift	3-ton Forklift	1-ton Forklift
RL-103	2 ½ x ¼	1.42	1.83	2.00	17.4	2 9/16	23	21	19	38	16	16	26
RL-105	2 ½ x 5/16	1.69	2.09	2.34	19.5	2 5/8	25	23	22	45	19	19	32
RL-106	2 ½ x ⅜	1.95	2.34	2.66	21.4	2 11/16	27	25.5	24	52	21	21	36
RL-114	2 ¾x ¼	1.70	2.21	2.64	18.4	2 9/16	25	23	22	46	19	19	31
RL-115	2 ¾ x 5/16	2.02	2.54	3.10	20.7	2 5/8	28	26	24	53	21	22	37
RL-116	2 ¾ x ⅜	2.33	2.84	3.52	22.8	2 11/16	30	28	27	57	24	25	42
RL-124	3 x ¼	2.01	2.64	3.42	119.4	2 9/16	28	26	24	53	21	22	37
RL-125	3 x 5/16	2.40	3.02	4.01	21.9	2 5/8	31	29	28	60	24	25	44
RL-126	3 x ⅜	2.77	3.38	4.57	24.3	2 11/16	33	32	31	62	27.5	29	51
RL-134	3 ¼ x ¼	2.35	3.10	4.35	20.4	2 9/16	30	29	27	61	24	24	42
RL-135	3 ¼ x 5/16	2.81	3.55	5.10	23.1	2 5/8	34	32	31	64	28	29	51
RL-136	3 ¼ x ⅜	3.25	3.97	5.81	25.7	2 11/16	37	36	35	67	31	33	59
RL-144	3 ½ x ¼	2.76	3.58	5.46	23.6	2 9/16	33	32	31	65	27	28	49
RL-145	3 ½ x 5/16	3.29	4.10	6.39	26.5	2 5/8	38	36	35	70	31	34	60
RL-146	3 ½ x ⅜	3.79	4.59	7.27	29.2	2 11/16	41	40	40	72	35	38	65
RL-154	3 ¾ x ¼	3.15	4.12	6.69	24.6	2 9/16	36	35	34	70	30	32	56
RL-155	3 ¾ x 5/16	3.76	4.72	7.84	27.7	2 5/8	41	40	39	74	35	38	67
RL-156	3 ¾ x ⅜	4.34	5.28	8.93	30.6	2 11/16	45	44	43	78	39	43	70
RL-164	4 x ¼	3.57	4.69	8.11	25.6	2 9/16	40	38	38	74	33	36	63
RL-165	4 x 5/16	4.26	5.37	9.51	28.9	2 5/8	45	44	44	79	39	43	71
RL-166	4 x ⅜	4.92	6.02	10.83	32.0	2 11/16	51	49	50	82	44	49	74
RL-184	4 ½ x ¼	4.50	5.95	11.53	27.6	2 9/16	47	46	46	83	41	44	74
RL-185	4 ½ x 5/16	5.39	6.81	13.53	31.3	2 5/8	54	53	54	89	48	53	80
RL-186	4 ½ x ⅜	6.22	7.62	15.41	34.9	2 11/16	60	60	61	93	55	61	83
RL-204	5 x ¼	5.56	7.34	15.82	29.6	2 9/16	55	54	55	93	49	54	83
RL-205	5 x 5/16	6.65	8.40	18.56	33.7	2 5/8	63	63	64	96	58	64	89
RL-206	5 x ⅜	7.69	9.40	21.14	37.7	2 11/16	71	72	73	96	67	74	93
RH-144	3 ½ x ¼	1.40	1.98	2.87	18.3	5 1/8							
RH-145	3 ½ x 5/16	1.69	2.27	3.39	19.8	5 3/16							
RH-146	3 ½ x ⅜	1.97	2.55	3.89	21.3	5 ¼							
RH-154	3 ¾ x ¼	1.61	2.27	3.53	18.8	5 1/8							
RH-155	3 ¾ x 5/16	1.94	2.60	4.17	20.4	5 3/16							
RH-156	3 ¾ x ⅜	2.27	2.92	4.78	22.0	5 ¼							
RH-164	4 x ¼	1.83	2.58	4.28	19.3	5 1/8							
RH-165	4 x 5/16	2.21	2.96	5.06	21.0	5 3/16							
RH-166	4 x ⅜	2.58	3.32	5.80	22.7	5 ¼							
RH-184	4 ½ x ¼	2.32	3.25	6.09	20.3	5 1/8							
RH-185	4 ½ x 5/16	2.80	3.72	7.19	22.2	5 3/16							
RH-186	4 ½ x ⅜	3.27	4.17	8.25	24.2	5 ¼							
RH-204	5 x ¼	2.87	3.97	8.33	21.3	5 1/8							
RH-205	5 x 5/16	3.46	4.55	9.84	23.5	5 3/16							
RH-206	5 x ⅜	4.04	5.11	11.28	25.6	5 ¼							

For the RH-type grating, use our online calculator at www.amico-grating.com/ calculator or consult AMICO.

The clear spans shown in this table are based upon simply supported single-span calculations using "S_B." Multi-span calculations using "S_T" are acceptable when approved by the owner's engineer. Consult AMICO for details.

Aluminum Bar Grating

Aluminum grating has many applications due to its corrosion resistance, light weight, and high strength construction. These applications include, but not limited to:

- walkways and platforms in sewage treatment plants
- refineries and chemical processing plants
- pumping and compressor stations
- aboard ships and barges
- breweries, bottling plants, and facilities for food preparation and storage
- munition plants and other volatile industries and areas, where its non-sparking properties make it a must for safety.

Aluminum grating is available in standard or anodized finishes.

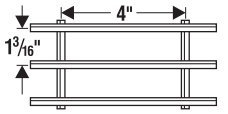
Swage-Locked I-Bar Grating is the most widely used and provides the strength equal to a rectangular bar of the same depth, but at far less weight and cost. The I-bars are permanently locked to the cross rods (positioned every 2” or 4”) by a swaging process.

Swage-Locked Rectangular Bar Grating uses the swaging process to permanently lock the cross rods (positioned every 2” or 4”) to the rectangular bars.

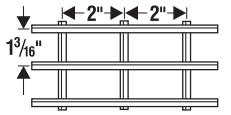
Press-Locked Rectangular Bar Grating is constructed with the two close-tolerance slotted bars bonded together (positioned every 2” or 4”) using tremendous hydraulic pressure. Permanent locking is achieved by forcing the deep cross bar into the bearing bar. Both the cross bars and the bearing bars provide walking surfaces in the press-locked design.

Rectangular bar grating in either the swage-locked or press-locked styles is your best choice when lateral stiffness is required. The rectangular bar is also available in a serrated surface for additional safety.

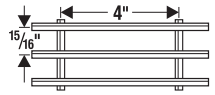
SWAGE-LOCKED I-BAR ALUMINUM GRATING



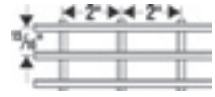
19-SI-4



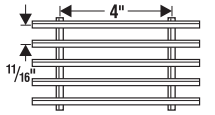
19-SI-2



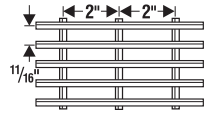
15-SI-4



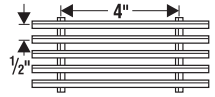
15-SI-2



11-SI-4



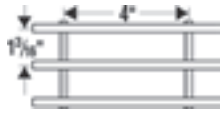
11-SI-2



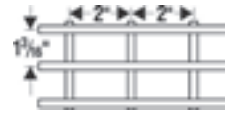
8-SI-4

8-SI-2

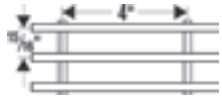
SWAGE-LOCKED RECTANGULAR BAR ALUMINUM GRATING



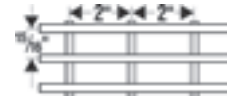
19-SR-4



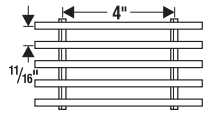
19-SR-2



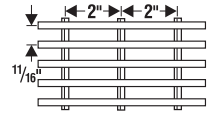
15-SR-4



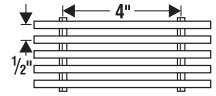
15-SR-2



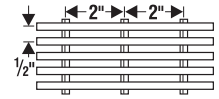
11-SR-4



11-SR-2

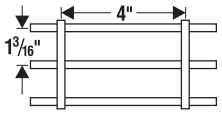


8-SR-4

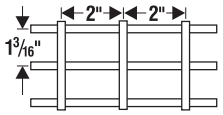


8-SR-2

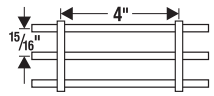
PRESS-LOCKED RECTANGULAR BAR ALUMINUM GRATING



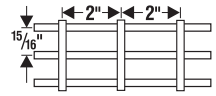
19-AP-4



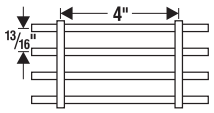
19-AP-2



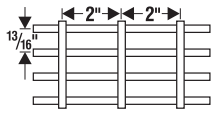
15-AP-4



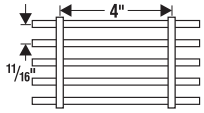
15-AP-2



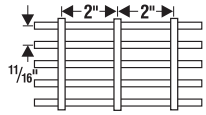
13-AP-4



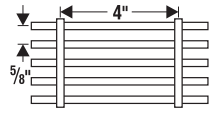
13-AP-2



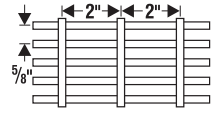
11-AP-4



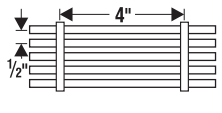
11-AP-2



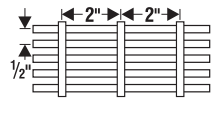
10-AP-4



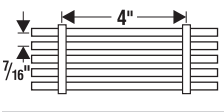
10-AP-2



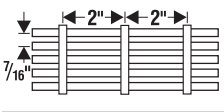
8-AP-4



8-AP-2



7-AP-4

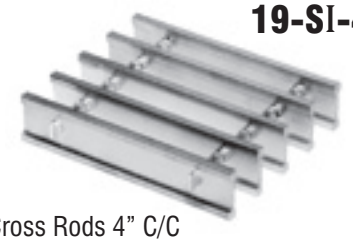


7-AP-2

Use our new bar grating calculator at
www.amico-grating.com/calculator

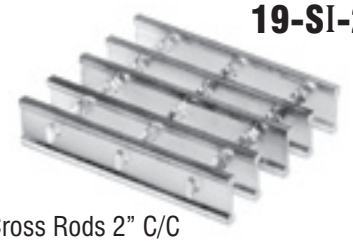
I-BAR SWAGE-LOCKED 1-3/16" C/C Bearing Bars

19-SI-4



Cross Rods 4" C/C

19-SI-2



Cross Rods 2" C/C

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	40"	48"	54"	60"	66"	72"	78"	84"	96"	108"
1" x 1/4"	19-SI-4	1.6	0.316	U	632	404	281	206	158	125							
				D	0.144	0.225	0.324	0.441	0.576	0.729							
	19-SI-2	2.0		C	632	505	421	361	316	281							
				D	0.115	0.180	0.259	0.353	0.461	0.583							
1-1/4" x 1/4"	19-SI-4	2.0	0.493	U	987	632	439	322	247	195	158						
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
	19-SI-2	2.3		C	987	789	658	564	493	439	395						
				D	0.092	0.144	0.207	0.282	0.369	0.467	0.576						
1-1/2" x 1/4"	19-SI-4	2.3	0.711	U	1421	909	632	464	355	281	227	188					
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726					
	19-SI-2	2.7		C	1421	1137	947	812	711	632	568	517					
				D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581					
1-3/4" x 1/4"	19-SI-4	2.7	0.967	U	1934	1238	860	632	484	382	309	256	215	183			
				D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869			
	19-SI-2	3.0		C	1934	1547	1289	1105	967	860	774	703	645	595			
				D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695			
2" x 1/4"	19-SI-4	3.0	1.263	U	2526	1617	1123	825	632	499	404	334	281	239	206		
				D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882		
	19-SI-2	3.3		C	2526	2021	1684	1444	1263	1123	1011	919	842	777	722		
				D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706		
2-1/4" x 1/4"	19-SI-4	3.4	1.599	U	3197	2046	1421	1044	799	632	512	423	355	303	261	200	
				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	
	19-SI-2	3.7		C	3197	2558	2132	1827	1599	1421	1279	1163	1066	984	914	799	
				D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	
2-1/2" x 1/4"	19-SI-4	3.8	1.974	U	3947	2526	1754	1289	987	780	632	522	439	374	322	247	195
				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
	19-SI-2	4.2		C	3947	3158	2632	2256	1974	1754	1579	1435	1316	1215	1128	987	877
				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

SI-19 PANEL WIDTH (inches)

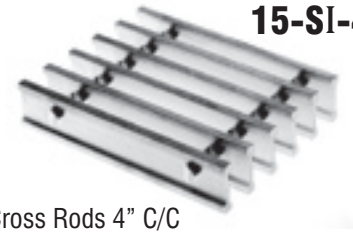
Note: Includes 1/4" (1/8" each side) for extended cross rods on swage-locked (SI).

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

Aluminum Bar Grating

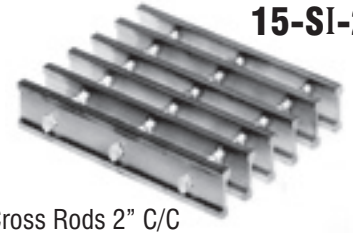
I-BAR SWAGE-LOCKED 15/16" C/C Bearing Bars

15-SI-4



Cross Rods 4" C/C

15-SI-2



Cross Rods 2" C/C

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Length of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
1" x 1/4"	15-SI-4	2.0	0.400	U	800	512	356	261	200	158							
				D	0.144	0.225	0.324	0.441	0.576	0.729							
	15-SI-2	2.3		C	800	640	533	457	400	356							
				D	0.115	0.180	0.259	0.353	0.461	0.583							
1-1/4" x 1/4"	15-SI-4	2.4	0.625	U	1250	800	556	408	313	247	200	165					
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
	15-SI-2	2.8		C	1250	1000	833	714	625	556	500	455					
				D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/2" x 1/4"	15-SI-4	2.8	0.900	U	1800	1152	800	588	450	356	288	238	200				
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864				
	15-SI-2	3.2		C	1800	1440	1200	1029	900	800	720	655	600				
				D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691				
1-3/4" x 1/4"	15-SI-4	3.3	1.225	U	2450	1568	1089	800	613	484	392	324	272	232			
				D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869			
	15-SI-2	3.6		C	2450	1960	1633	1400	1225	1089	980	891	817	754			
				D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695			
2" x 1/4"	15-SI-4	3.7	1.600	U	3200	2048	1422	1045	800	632	512	423	356	303	261		
				D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882		
	15-SI-2	4.0		C	3200	2560	2133	1829	1600	1422	1280	1164	1067	985	914		
				D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706		
2-1/4" x 1/4"	15-SI-4	4.2	2.025	U	4050	2592	1800	1322	1013	800	648	536	450	383	331	253	200
				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
	15-SI-2	4.5		C	4050	3240	2700	2314	2025	1800	1620	1473	1350	1246	1157	1013	900
				D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 1/4"	15-SI-4	4.7	2.500	U	5000	3200	2222	1633	1250	988	800	661	556	473	408	313	247
				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
	15-SI-2	5.1		C	5000	4000	3333	2857	2500	2222	2000	1818	1667	1538	1429	1250	1111
				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

SI-15 PANEL WIDTH (inches)

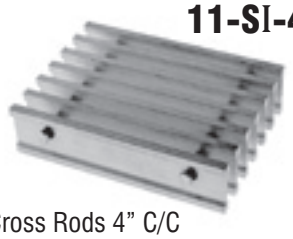
Note: Includes 1/4" (1/8" each side) for extended cross rods on swage-locked (SI).

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

Use our new bar grating calculator at **www.amico-grating.com/calculator**

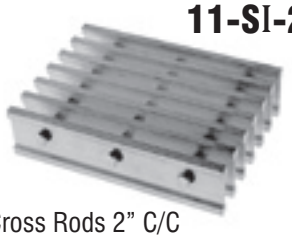
I-BAR SWAGE-LOCKED 11/16" C/C Bearing Bars

11-SI-4



Cross Rods 4" C/C

11-SI-2



Cross Rods 2" C/C

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Length of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
1" x 1/4"	11-SI-4	2.6	0.545	U	1091	698	485	356	273	215	175						
				D	0.144	0.225	0.324	0.441	0.576	0.729	0.900						
	11-SI-2	2.9		C	1091	873	727	623	545	485	436						
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
1-1/4" x 1/4"	11-SI-4	3.2	0.852	U	1705	1091	758	557	426	337	273	225					
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
	11-SI-2	3.5		C	1705	1364	1136	974	852	758	682	620					
				D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/2" x 1/4"	11-SI-4	3.7	1.227	U	2455	1571	1091	801	614	485	393	325	273	232			
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014			
	11-SI-2	4.1		C	2455	1964	1636	1403	1227	1091	982	893	818	755			
				D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811			
1-3/4" x 1/4"	11-SI-4	4.3	1.670	U	3341	2138	1485	1091	835	660	535	442	371	316	273		
				D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008		
	11-SI-2	4.7		C	3341	2673	2227	1909	1670	1485	1336	1215	1114	1028	955		
				D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806		
2" x 1/4"	11-SI-4	4.9	2.182	U	4364	2793	1939	1425	1091	862	698	577	485	413	356	273	215
				D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458
	11-SI-2	5.2		C	4364	3491	2909	2494	2182	1939	1745	1587	1455	1343	1247	1091	970
				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
2-1/4" x 1/4"	11-SI-4	5.6	2.761	U	5523	3535	2455	1803	1381	1091	884	730	614	523	451	345	273
				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
	11-SI-2	5.9		C	5523	4418	3682	3156	2761	2455	2209	2008	1841	1699	1578	1381	1227
				D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 1/4"	11-SI-4	6.3	3.409	U	6818	4364	3030	2226	1705	1347	1091	902	758	646	557	426	337
				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
	11-SI-2	6.7		C	6818	5455	4545	3896	3409	3030	2727	2479	2273	2098	1948	1705	1515
				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

SI-11 PANEL WIDTH (inches)

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

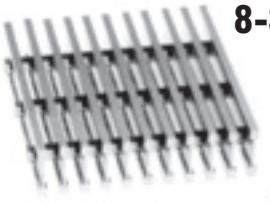
No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1/4" Bar	1 3/16	1 7/8	2 9/16	3 1/4	3 15/16	4 5/8	5 5/16	6	6 11/16	7 3/8	8 1/16	8 3/4	9 7/16	10 1/8	10 13/16	11 1/2	12 3/16	12 7/8	13 9/16
No. of Bars	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1/4" Bar	14 1/4	14 15/16	15 5/8	16 5/16	17	17 11/16	18 3/8	19 1/16	19 3/4	20 7/16	21 1/8	21 13/16	22 1/2	23 3/16	23 7/8	24 9/16	25 1/4	25 15/16	26 5/8
No. of Bars	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
1/4" Bar	27 5/16	28	28 11/16	29 3/8	30 1/16	30 3/4	31 7/16	32 1/8	32 13/16	33 1/2	34 3/16	34 7/8	35 9/16	36 1/4	36 15/16	37 5/8	38 5/16	39	39 11/16
No. of Bars	59	60	61	62	63	64	65	66	67	68	69	70							
1/4" Bar	40 3/8	41 1/16	41 3/4	42 7/16	43 1/8	43 13/16	44 1/2	45 3/16	45 7/8	46 9/16	47 1/4	47 15/16							

Aluminum Bar Grating Close-Mesh

I-BAR SWAGE-LOCKED CLOSE-MESH 1/2" C/C Bearing Bars

8-SI-4

Cross Rods 4" C/C



8-SI-2

Cross Rods 2" C/C

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
1" x 1/4"	8-SI-4	3.4	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					
	8-SI-2	3.8		C	1500	1200	1000	857	750	667	600	545					
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
1-1/4" x 1/4"	8-SI-4	4.2	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				
	8-SI-2	4.6		C	2344	1875	1563	1339	1172	1042	938	852	781				
				D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829				
1-1/2" x 1/4"	8-SI-4	5.0	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		
	8-SI-2	5.3		C	3375	2700	2250	1929	1688	1500	1350	1227	1125	1038	964		
				D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941		
1-3/4" x 1/4"	8-SI-4	5.8	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	1.317	
	8-SI-2	6.2		C	4594	3675	3063	2625	2297	2042	1838	1670	1531	1413	1313	1148	
				D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.053	
2" x 1/4"	8-SI-4	6.6	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	1.152	1.458
	8-SI-2	6.9		C	6000	4800	4000	3429	3000	2667	2400	2182	2000	1846	1714	1500	1333
				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
2-1/4" x 1/4"	8-SI-4	7.5	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
	8-SI-2	7.9		C	7594	6075	5063	4339	3797	3375	3038	2761	2531	2337	2170	1898	1688
				D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 1/4"	8-SI-4	8.6	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
	8-SI-2	8.9		C	9375	7500	6250	5357	4688	4167	3750	3409	3125	2885	2679	2344	2083
				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

SI-8 PANEL WIDTH (inches)

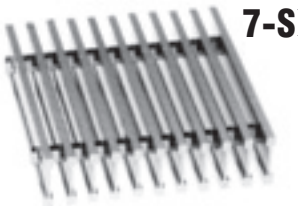
Note: Includes 1/4" (1/8" each side) for extended cross rods on swage-locked (SI).

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	1½	2	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	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	10½	11	11½	12	12½	13	13½	14	14½	15	15½	16	16½	17	17½	18	18½	19	19½
No. of Bars	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
1/4" Bar	20	20½	21	21½	22	22½	23	23½	24	24½	25	25½	26	26½	27	27½	28	28½	29
No. of Bars	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
1/4" Bar	29½	30	30½	31	31½	32	32½	33	33½	34	34½	35	35½	36	36½	37	37½	38	38½
No. of Bars	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
1/4" Bar	39	39½	40	40½	41	41½	42	42½	43	43½	44	44½	45	45½	46	46½	47	47½	48

Aluminum Bar Grating Close-Mesh

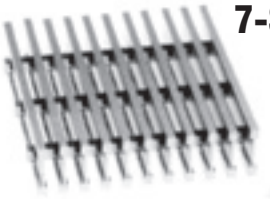
Use our new bar grating calculator at **www.amico-grating.com/calculator**

I-BAR SWAGE-LOCKED CLOSE-MESH 7/16" C/C Bearing Bars



7-SI-4

Cross Rods 4" C/C



7-SI-2

Cross Rods 2" C/C

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
1" x 1/4"	7-SI-4	3.9		U	1714	1097	762	560	429	339	274	227					
	7-SI-2	4.2	0.857	D	0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089					
1-1/4" x 1/4"	7-SI-4	4.8		U	2679	1714	1190	875	670	529	429	354	298	254			
	7-SI-2	5.1	1.339	D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217			
1-1/2" x 1/4"	7-SI-4	5.7		U	3857	2469	1714	1259	964	762	617	510	429	365	315		
	7-SI-2	6.0	1.929	D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176		
1-3/4" x 1/4"	7-SI-4	6.6		U	5250	3360	2333	1714	1313	1037	840	694	583	497	429	328	259
	7-SI-2	7.0	2.625	D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.317	1.666
2" x 1/4"	7-SI-4	7.5		U	6857	4389	3048	2239	1714	1354	1097	907	762	649	560	429	339
	7-SI-2	7.8	3.429	D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458
2-1/4" x 1/4"	7-SI-4	8.5		U	8679	5554	3857	2834	2170	1714	1389	1148	964	822	708	542	429
	7-SI-2	8.9	4.339	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
2-1/2" x 1/4"	7-SI-4	9.7		U	10714	6857	4762	3499	2679	2116	1714	1417	1190	1014	875	670	529
	7-SI-2	10.1	5.357	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

SI-7 PANEL WIDTH (inches)

Note: Includes 1/4" (1/8" each side) for extended cross bars 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	15/16	1 3/8	1 13/16	2 1/4	2 11/16	3 1/8	3 9/16	4	4 7/16	4 7/8	5 5/16	5 3/4	6 3/16	6 5/8	7 1/16	7 1/2	7 15/16	8 3/8	8 13/16
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	9 1/4	9 11/16	10 1/8	10 9/16	11	11 7/16	11 7/8	12 5/16	12 3/4	13 3/16	13 5/8	14 1/16	14 1/2	14 15/16	15 3/8	15 13/16	16 1/4	16 11/16	17 1/8
No. of Bars	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
1/4" Bar	17 9/16	18	18 7/16	18 7/8	19 5/16	19 3/4	20 3/16	20 5/8	21 1/16	21 1/2	21 15/16	22 3/8	22 13/16	23 1/4	23 11/16	24 1/8	24 9/16	25	25 7/16
No. of Bars	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
1/4" Bar	25 7/8	26 5/16	26 3/4	27 3/16	27 5/8	28 1/16	28 1/2	28 15/16	29 3/8	29 13/16	30 1/4	30 11/16	31 1/8	31 9/16	32	32 7/16	32 7/8	33 5/16	33 3/4
No. of Bars	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
1/4" Bar	34 3/16	34 5/8	35 1/16	35 1/2	35 15/16	36 3/8	36 13/16	37 1/4	37 11/16	38 1/8	38 9/16	39	39 7/16	39 7/8	40 5/16	40 3/4	41 3/16	41 5/8	42 1/16
No. of Bars	97	98	99	100	101	102	103	104	105	106	107	108	109	110					
1/4" Bar	42 1/2	42 15/16	43 3/8	43 13/16	44 1/4	44 11/16	45 1/8	45 9/16	46	46 7/16	46 7/8	47 5/16	47 3/4	48 3/16					

Aluminum Bar Grating

RECTANGULAR BAR SWAGE-LOCKED 1-3/16" C/C Bearing Bars

19-SR-4

Cross Rods 4" C/C

19-SR-2

Cross Rods 2" C/C

NON-SERRATED & SERRATED

PRESS-LOCKED 1-3/16" C/C Bearing Bars

19-AP-4

Cross Bars 4" C/C

19-AP-2

Cross Bars 2" C/C

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	19-SR-4	1.1	0.118	U	237	152	105	77									
	19-SR-2	1.3		D	0.192	0.300	0.432	0.588									
	19-AP-4	1.2		C	237	189	158	135									
	19-AP-2	1.5		D	0.154	0.240	0.346	0.470									
3/4" x 3/16" Non-Serrated Only	19-SR-4	1.6	0.178	U	355	227	158	116									
	19-SR-2	1.8		D	0.192	0.300	0.432	0.588									
	19-AP-4	1.9		C	355	284	237	203									
	19-AP-2	2.4		D	0.154	0.240	0.346	0.470									
1" x 1/8"	19-SR-4	1.6	0.211	U	421	269	187	137	105								
	19-SR-2	1.8		D	0.144	0.225	0.324	0.441	0.576								
	19-AP-4	1.7		C	421	337	281	241	211								
	19-AP-2	2.0		D	0.115	0.180	0.259	0.353	0.461								
1" x 3/16"	19-SR-4	2.3	0.316	U	632	404	281	206	158	125							
	19-SR-2	2.5		D	0.144	0.225	0.324	0.441	0.576	0.729							
	19-AP-4	2.6		C	632	505	421	361	316	281							
	19-AP-2	3.1		D	0.115	0.180	0.259	0.353	0.461	0.583							
1-1/4" x 1/8"	19-SR-4	1.9	0.329	U	658	421	292	215	164	130							
	19-SR-2	2.1		D	0.115	0.180	0.259	0.353	0.461	0.583							
	19-AP-4	2.1		C	658	526	439	376	329	292							
	19-AP-2	2.6		D	0.092	0.144	0.207	0.282	0.369	0.467							
1-1/4" x 3/16"	19-SR-4	2.8	0.493	U	987	632	439	322	247	195	158						
	19-SR-2	3.0		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
	19-AP-4	3.2		C	987	789	658	564	493	439	395						
	19-AP-2	3.9		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576						
1-1/2" x 1/8"	19-SR-4	2.3	0.474	U	947	606	421	309	237	187	152						
	19-SR-2	2.5		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600						
	19-AP-4	2.5		C	947	758	632	541	474	421	379						
	19-AP-2	2.9		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480						
1-1/2" x 3/16"	19-SR-4	3.3	0.711	U	1421	909	632	464	355	281	227	188					
	19-SR-2	3.6		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726					
	19-AP-4	3.8		C	1421	1137	947	812	711	632	568	517					
	19-AP-2	4.4		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581					
1-3/4" x 3/16"	19-SR-4	3.9	0.967	U	1934	1238	860	632	484	382	309	256	215	183			
	19-SR-2	4.1		D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869			
	19-AP-4	4.3		C	1934	1547	1289	1105	967	860	774	703	645	595			
	19-AP-2	5.0		D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695			
2" x 3/16"	19-SR-4	4.4	1.263	U	2526	1617	1123	825	632	499	404	334	281	239	206		
	19-SR-2	4.6		D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882		
	19-AP-4	4.8		C	2526	2021	1684	1444	1263	1123	1011	919	842	777	722		
	19-AP-2	5.5		D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706		
2-1/4" x 3/16"	19-SR-4	4.9	1.599	U	3197	2046	1421	1044	799	632	512	423	355	303	261	200	
	19-SR-2	5.1		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	
	19-AP-4	5.3		C	3197	2558	2132	1827	1599	1421	1279	1163	1066	984	914	799	
	19-AP-2	6.0		D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	
2-1/2" x 3/16"	19-SR-4	5.4	1.974	U	3947	2526	1754	1289	987	780	632	522	439	374	322	247	195
	19-SR-2	5.7		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
	19-AP-4	5.9		C	3947	3158	2632	2256	1974	1754	1579	1435	1316	1215	1128	987	877
	19-AP-2	6.5		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 = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

SR/AP-19 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	30	31	32
1/8" Bar	1 9/16	2 3/4	3 15/16	5 1/8	6 5/16	7 1/2	8 11/16	9 7/8	11 1/16	12 1/4	13 7/16	14 5/8	15 13/16	17	18 3/16	19 3/8	20 9/16	21 3/4	22 15/16	24 1/8	25 5/16	26 1/2	27 11/16	28 7/8	30 1/16	31 1/4	32 7/16	33 5/8	34 13/16	36	37 3/16
3/16" Bar	1 5/8	2 13/16	4	5 3/16	6 3/8	7 9/16	8 3/4	9 15/16	11 1/8	12 5/16	13 1/2	14 11/16	15 7/8	17 1/16	18 1/4	19 7/16	20 5/8	21 13/16	23	24 3/16	25 3/8	26 9/16	27 3/4	28 15/16	30 1/8	31 5/16	32 1/2	33 11/16	34 7/8	36 1/16	37 1/4

No. of Bars	33	34	35	36	37	38	39	40	41	42
1/8" Bar	38 3/8	39 9/16	40 3/4	41 15/16	43 1/8	44 5/16	45 1/2	46 11/16	47 7/8	49 1/16
3/16" Bar	38 7/16	39 5/8	40 13/16	42	43 3/16	44 3/8	45 9/16	46 3/4	47 15/16	49 1/8

Aluminum Bar Grating

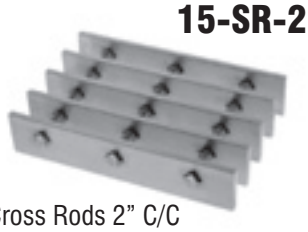
Use our new bar grating calculator at **www.amico-grating.com/calculator**

RECTANGULAR BAR SWAGE-LOCKED 15/16" C/C Bearing Bars

15-SR-4

Cross Rods 4" C/C

15-SR-2

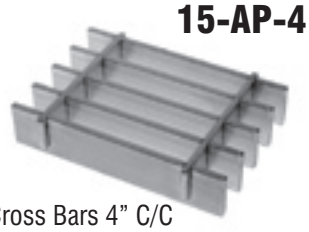


Cross Rods 2" C/C

NON-SERRATED & SERRATED

PRESS-LOCKED 15/16" C/C Bearing Bars

15-AP-4



Cross Bars 4" C/C

15-AP-2

Cross Bars 2" C/C

LOAD & DEFLECTION TABLE

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	15-SR-4	1.3	0.150	U	300	192	133	98									
	15-SR-2	1.6		D	0.192	0.300	0.432	0.588									
	15-AP-4	1.5		C	300	240	200	171									
	15-AP-2	1.8		D	0.154	0.240	0.346	0.470									
3/4" x 3/16" Non-Serrated Only	15-SR-4	1.9	0.225	U	450	288	200	147	113								
	15-SR-2	2.2		D	0.192	0.300	0.432	0.588	0.768								
	15-AP-4	2.2		C	450	360	300	257	225								
	15-AP-2	2.7		D	0.154	0.240	0.346	0.470	0.614								
1" x 1/8"	15-SR-4	2.0	0.267	U	533	341	237	174	133								
	15-SR-2	2.2		D	0.144	0.225	0.324	0.441	0.576								
	15-AP-4	2.1		C	533	427	356	305	267								
	15-AP-2	2.4		D	0.115	0.180	0.259	0.353	0.461								
1" x 3/16"	15-SR-4	2.9	0.400	U	800	512	356	261	200	158							
	15-SR-2	3.1		D	0.144	0.225	0.324	0.441	0.576	0.729							
	15-AP-4	3.1		C	800	640	533	457	400	356							
	15-AP-2	3.6		D	0.115	0.180	0.259	0.353	0.461	0.583							
1-1/4" x 1/8"	15-SR-4	2.4	0.417	U	833	533	370	272	208	165	133						
	15-SR-2	2.6		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
	15-AP-4	2.6		C	833	667	556	476	417	370	333						
	15-AP-2	3.0		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576						
1-1/4" x 3/16"	15-SR-4	3.5	0.625	U	1250	800	556	408	313	247	200	165					
	15-SR-2	3.7		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
	15-AP-4	3.9		C	1250	1000	833	714	625	556	500	455					
	15-AP-2	4.6		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/2" x 1/8"	15-SR-4	2.8	0.600	U	1200	768	533	392	300	237	192	159					
	15-SR-2	3.0		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726					
	15-AP-4	3.0		C	1200	960	800	686	600	533	480	436					
	15-AP-2	3.5		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581					
1-1/2" x 3/16"	15-SR-4	4.2	0.900	U	1800	1152	800	588	450	356	288	238	200				
	15-SR-2	4.4		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864				
	15-AP-4	4.6		C	1800	1440	1200	1029	900	800	720	655	600				
	15-AP-2	5.3		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691				
1-3/4" x 3/16"	15-SR-4	4.8	1.225	U	2450	1568	1089	800	613	484	392	324	272	232			
	15-SR-2	5.1		D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869			
	15-AP-4	5.3		C	2450	1960	1633	1400	1225	1089	980	891	817	754			
	15-AP-2	5.9		D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695			
2" x 3/16"	15-SR-4	5.5	1.600	U	3200	2048	1422	1045	800	632	512	423	356	303	261		
	15-SR-2	5.7		D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882		
	15-AP-4	5.9		C	3200	2560	2133	1829	1600	1422	1280	1164	1067	985	914		
	15-AP-2	6.6		D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706		
2-1/4" x 3/16"	15-SR-4	6.2	2.025	U	4050	2592	1800	1322	1013	800	648	536	450	383	331	253	200
	15-SR-2	6.4		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
	15-AP-4	6.6		C	4050	3240	2700	2314	2025	1800	1620	1473	1350	1246	1157	1013	900
	15-AP-2	7.3		D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	15-SR-4	6.8	2.500	U	5000	3200	2222	1633	1250	988	800	661	556	473	408	313	247
	15-SR-2	7.1		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
	15-AP-4	7.3		C	5000	4000	3333	2857	2500	2222	2000	1818	1667	1538	1429	1250	1111
	15-AP-21	7.9		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

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

Aluminum Bar Grating Close-Mesh

PRESS-LOCKED CLOSE MESH 13/16" C/C Bearing Bars

13-AP-4

Cross Bars 4" C/C

13-AP-2

Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	13-AP-4	1.6	0.173	U	346	222	154	113									
				D	0.192	0.300	0.432	0.588									
	13-AP-2	2.0		C	346	277	231	198									
				D	0.154	0.240	0.346	0.470									
3/4" x 3/16" Non-Serrated Only	13-AP-4	2.5	0.260	U	519	332	231	170	130								
				D	0.192	0.300	0.432	0.588	0.768								
	13-AP-2	3.0		C	519	415	346	297	260								
				D	0.154	0.240	0.346	0.470	0.614								
1" x 1/8"	13-AP-4	2.4	0.308	U	615	394	274	201	154								
				D	0.144	0.225	0.324	0.441	0.576								
	13-AP-2	2.7		C	615	492	410	352	308								
				D	0.115	0.180	0.259	0.353	0.461								
1" x 3/16"	13-AP-4	3.6	0.462	U	923	591	410	301	231	182							
				D	0.144	0.225	0.324	0.441	0.576	0.729							
	13-AP-2	4.0		C	923	738	615	527	462	410							
				D	0.115	0.180	0.259	0.353	0.461	0.583							
1-1/4" x 1/8"	13-AP-4	2.9	0.481	U	962	615	427	314	240	190							
				D	0.115	0.180	0.259	0.353	0.461	0.583							
	13-AP-2	3.4		C	962	769	641	549	481	427							
				D	0.092	0.144	0.207	0.282	0.369	0.467							
1-1/4" x 3/16"	13-AP-4	4.4	0.721	U	1442	923	641	471	361	285	231	191					
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
	13-AP-2	5.1		C	1442	1154	962	824	721	641	577	524					
				D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/2" x 1/8"	13-AP-4	3.4	0.692	U	1385	886	615	452	346	274	222	183					
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726					
	13-AP-2	3.9		C	1385	1108	923	791	692	615	554	503					
				D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581					
1-1/2" x 3/16"	13-AP-4	5.2	1.038	U	2077	1329	923	678	519	410	332	275	231				
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864				
	13-AP-2	5.9		C	2077	1662	1385	1187	1038	923	831	755	692				
				D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691				
1-3/4" x 3/16"	13-AP-4	6.0	1.413	U	2827	1809	1256	923	707	558	452	374	314	268			
				D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869			
	13-AP-2	6.7		C	2827	2262	1885	1615	1413	1256	1131	1028	942	870			
				D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695			
2" x 3/16"	13-AP-4	6.7	1.846	U	3692	2363	1641	1206	923	729	591	488	410	350	301		
				D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882		
	13-AP-2	7.4		C	3692	2954	2462	2110	1846	1641	1477	1343	1231	1136	1055		
				D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706		
2-1/4" x 3/16"	13-AP-4	7.5	2.337	U	4673	2991	2077	1526	1168	923	748	618	519	442	381	292	231
				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
	13-AP-2	8.2		C	4673	3738	3115	2670	2337	2077	1869	1699	1558	1438	1335	1168	1038
				D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	13-AP-4	8.3	2.885	U	5769	3692	2564	1884	1442	1140	923	763	641	546	471	361	285
				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
	13-AP-2	8.9		C	5769	4615	3846	3297	2885	2564	2308	2098	1923	1775	1648	1442	1282
				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 = Allowable uniform load, psf

D = Deflection due to U, in.

C = Allowable concentrated load per ft. of grating width, lbs.

D = Deflection due to C, in.

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

No. of Bars	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	58	59	60
1/8" Bar	26 3/8	27 5/16	28	28 13/16	29 5/8	30 7/16	31 1/4	32 1/16	32 7/8	33 11/16	34 1/2	35 5/16	36 1/8	36 15/16	37 3/4	38 9/16	39 3/8	40 3/16	41	41 13/16	42 5/8	43 7/16	44 1/4	45 1/16	45 7/8	46 11/16	47 1/2	48 5/16
3/16" Bar	26 7/16	27 1/4	28 1/16	28 7/8	29 11/16	30 1/2	31 5/16	32 1/8	32 15/16	33 3/4	34 9/16	35 3/8	36 3/16	37	37 13/16	38 5/8	39 7/16	40 1/4	41 1/16	41 7/8	42 11/16	43 1/2	44 5/16	45 1/8	45 15/16	46 3/4	47 9/16	48 3/8

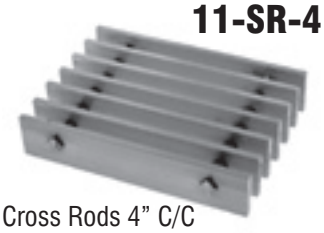
Aluminum Bar Grating Close-Mesh

Use our new bar grating calculator at **www.amico-grating.com/calculator**

RECTANGULAR BAR SWAGE-LOCKED CLOSE MESH

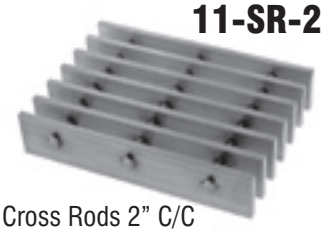
11/16" C/C Bearing Bars

11-SR-4



Cross Rods 4" C/C

11-SR-2



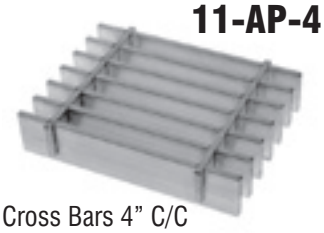
Cross Rods 2" C/C

NON-SERRATED & SERRATED

PRESS-LOCKED CLOSE MESH

11/16" C/C Bearing Bars

11-AP-4



Cross Bars 4" C/C

11-AP-2

Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	11-SR-4	1.8	0.205	U	409	262	182	134	102								
	11-SR-2	2.0		D	0.192	0.300	0.432	0.588	0.768								
	11-AP-4	1.9		C	409	327	273	234	205								
	11-AP-2	2.2		D	0.154	0.240	0.346	0.470	0.614								
3/4" x 3/16" Non-Serrated Only	11-SR-4	2.6	0.307	U	614	393	273	200	153								
	11-SR-2	2.8		D	0.192	0.300	0.432	0.588	0.768								
	11-AP-4	2.8		C	614	491	409	351	307								
	11-AP-2	3.3		D	0.154	0.240	0.346	0.470	0.614								
1" x 1/8"	11-SR-4	2.6	0.364	U	727	465	323	237	182	144							
	11-SR-2	2.8		D	0.144	0.225	0.324	0.441	0.576	0.729							
	11-AP-4	2.7		C	727	582	485	416	364	323							
	11-AP-2	3.1		D	0.115	0.180	0.259	0.353	0.461	0.583							
1" x 3/16"	11-SR-4	3.8	0.545	U	1091	698	485	356	273	215	175						
	11-SR-2	4.1		D	0.144	0.225	0.324	0.441	0.576	0.729	0.900						
	11-AP-4	4.1		C	1091	873	727	623	545	485	436						
	11-AP-2	4.6		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
1-1/4" x 1/8"	11-SR-4	3.1	0.568	U	1136	727	505	371	284	224	182						
	11-SR-2	3.4		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
	11-AP-4	3.4		C	1136	909	758	649	568	505	455						
	11-AP-2	3.8		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576						
1-1/4" x 3/16"	11-SR-4	4.6	0.852	U	1705	1091	758	557	426	337	273	225					
	11-SR-2	4.9		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
	11-AP-4	5.1		C	1705	1364	1136	974	852	758	682	620					
	11-AP-2	5.7		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/2" x 1/8"	11-SR-4	3.8	0.818	U	1636	1047	727	534	409	323	262	216	182				
	11-SR-2	4.0		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864				
	11-AP-4	4.0		C	1636	1309	1091	935	818	727	655	595	545				
	11-AP-2	4.4		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691				
1-1/2" x 3/16"	11-SR-4	5.6	1.227	U	2455	1571	1091	801	614	485	393	325	273	232			
	11-SR-2	5.8		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014			
	11-AP-4	6.0		C	2455	1964	1636	1403	1227	1091	982	893	818	755			
	11-AP-2	6.7		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811			
1-3/4" x 3/16"	11-SR-4	6.5	1.670	U	3341	2138	1485	1091	835	660	535	442	371	316	273		
	11-SR-2	6.7		D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008		
	11-AP-4	7.0		C	3341	2673	2227	1909	1670	1485	1336	1215	1114	1028	955		
	11-AP-2	7.6		D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806		
2" x 3/16"	11-SR-4	7.4	2.182	U	4364	2793	1939	1425	1091	862	698	577	485	413	356	273	215
	11-SR-2	7.6		D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458
	11-AP-4	7.8		C	4364	3491	2909	2494	2182	1939	1745	1587	1455	1343	1247	1091	970
	11-AP-2	8.5		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
2-1/4" x 3/16"	11-SR-4	8.3	2.761	U	5523	3535	2455	1803	1381	1091	884	730	614	523	451	345	273
	11-SR-2	8.5		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
	11-AP-4	8.8		C	5523	4418	3682	3156	2761	2455	2209	2008	1841	1699	1578	1381	1227
	11-AP-2	9.4		D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	11-SR-4	9.2	3.409	U	6818	4364	3030	2226	1705	1347	1091	902	758	646	557	426	337
	11-SR-2	9.5		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
	11-AP-4	9.7		C	6818	5455	4545	3896	3409	3030	2727	2479	2273	2098	1948	1705	1515
	11-AP-2	10.3		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 = Allowable uniform load, psf

D = Deflection due to U, in.

C = Allowable concentrated load per ft. of grating width, lbs.

D = Deflection due to C, in.

Allowable 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 maximum 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)

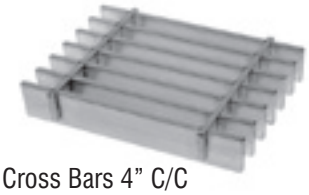
Note: Includes 1/4" (1/8" each side) for extended cross rods on swage-locked (SR) and extended cross bars on press-locked (AP).

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1/8" Bar	1 1/16	1 3/4	2 7/16	3 1/8	3 13/16	4 1/2	5 3/16	5 7/8	6 9/16	7 1/4	7 15/16	8 5/8	9 5/16	10	10 11/16	11 3/8	12 1/16	12 3/4	13 7/16	14 1/8	14 13/16	15 1/2	16 3/16	16 7/8	17 9/16	18 1/4	18 15/16	19 5/8	20 5/16	21	21 11/16
3/16" Bar	1 1/8	1 13/16	2 1/2	3 3/16	3 7/8	4 9/16	5 1/4	5 15/16	6 5/8	7 5/16	8	8 11/16	9 3/8	10 1/16	10 3/4	11 7/16	12 1/8	12 13/16	13 1/2	14 3/16	14 7/8	15 9/16	16 1/4	16 15/16	17 5/8	18 5/16	19	19 11/16	20 3/8	21 1/16	21 3/4
No. of Bars	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	58	59	60	61	62	63
1/8" Bar	22 3/8	23 1/16	23 3/4	24 7/16	25 1/8	25 13/16	26 1/2	27 3/16	27 7/8	28 9/16	29 1/4	29 15/16	30 5/8	31 5/16	32	32 11/16	33 3/8	34 1/16	34 3/4	35 7/16	36 1/8	36 13/16	37 1/2	38 3/16	38 7/8	39 9/16	40 1/4	40 15/16	41 5/8	42 5/16	43
3/16" Bar	22 7/16	23 1/8	23 13/16	24 1/2	25 3/16	25 7/8	26 9/16	27 1/4	27 15/16	28 5/8	29 5/16	30	30 11/16	31 3/8	32 1/16	32 3/4	33 7/16	34 1/8	34 13/16	35 1/2	36 3/16	36 7/8	37 9/16	38 1/4	38 15/16	39 5/8	40 5/16	41	41 11/16	42 3/8	43 1/16
No. of Bars	64	65	66	67	68	69	70																								
1/8" Bar	43 11/16	44 3/8	45 1/16	45 3/4	46 7/16	47 1/8	47 13/16																								
3/16" Bar	43 3/4	44 7/16	45 1/8	45 13/16	46 1/2	47 3/16	47 7/8																								

Aluminum Bar Grating Close-Mesh

PRESS-LOCKED CLOSE MESH 5/8" C/C Bearing Bars

10-AP-4



Cross Bars 4" C/C

10-AP-2

Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	10-AP-4	2.0	0.225	U	450	288	200	147	113								
				D	0.192	0.300	0.432	0.588	0.768								
				C	450	360	300	257	225								
	10-AP-2	2.3		D	0.154	0.240	0.346	0.470	0.614								
3/4" x 3/16" Non-Serrated Only	10-AP-4	3.1	0.338	U	675	432	300	220	169								
				D	0.192	0.300	0.432	0.588	0.768								
				C	675	540	450	386	338								
	10-AP-2	3.6		D	0.154	0.240	0.346	0.470	0.614								
1" x 1/8"	10-AP-4	3.0	0.400	U	800	512	356	261	200	158							
				D	0.144	0.225	0.324	0.441	0.576	0.729							
				C	800	640	533	457	400	356							
	10-AP-2	3.3		D	0.115	0.180	0.259	0.353	0.461	0.583							
1" x 3/16"	10-AP-4	4.5	0.600	U	1200	768	533	392	300	237	192						
				D	0.144	0.225	0.324	0.441	0.576	0.729	0.900						
				C	1200	960	800	686	600	533	480						
	10-AP-2	5.0		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
1-1/4" x 1/8"	10-AP-4	3.7	0.625	U	1250	800	556	408	313	247	200	165					
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
				C	1250	1000	833	714	625	556	500	455					
	10-AP-2	4.1		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/4" x 3/16"	10-AP-4	5.5	0.938	U	1875	1200	833	612	469	370	300	248	208				
				D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037				
				C	1875	1500	1250	1071	938	833	750	682	625				
	10-AP-2	6.2		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829				
1-1/2" x 1/8"	10-AP-4	4.3	0.900	U	1800	1152	800	588	450	356	288	238	200				
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864				
				C	1800	1440	1200	1029	900	800	720	655	600				
	10-AP-2	4.8		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691				
1-1/2" x 3/16"	10-AP-4	6.6	1.350	U	2700	1728	1200	882	675	533	432	357	300	256			
				D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014			
				C	2700	2160	1800	1543	1350	1200	1080	982	900	831			
	10-AP-2	7.2		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811			
1-3/4" x 3/16"	10-AP-4	7.6	1.838	U	3675	2352	1633	1200	919	726	588	486	408	348	300	230	
				D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.317	
				C	3675	2940	2450	2100	1838	1633	1470	1336	1225	1131	1050	919	
	10-AP-2	8.3		D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.053	
2" x 3/16"	10-AP-4	8.6	2.400	U	4800	3072	2133	1567	1200	948	768	635	533	454	392	300	237
				D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458
				C	4800	3840	3200	2743	2400	2133	1920	1745	1600	1477	1371	1200	1067
	10-AP-2	9.2		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
2-1/4" x 3/16"	10-AP-4	9.6	3.038	U	6075	3888	2700	1984	1519	1200	972	803	675	575	496	380	300
				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
				C	6075	4860	4050	3471	3038	2700	2430	2209	2025	1869	1736	1519	1350
	10-AP-2	10.2		D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	10-AP-4	10.6	3.750	U	7500	4800	3333	2449	1875	1481	1200	992	833	710	612	469	370
				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	7500	6000	5000	4286	3750	3333	3000	2727	2500	2308	2143	1875	1667
	10-AP-2	11.2		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 = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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	21	22	23	24	25	26	27	28	29	30	31	32
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	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
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	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

No. of Bars	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	58	59	60	61	62	63
1/8" Bar	20 3/8	21	21 5/8	22 1/4	22 7/8	23 1/2	24 1/8	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	36 5/8	37 1/4	37 7/8	38 1/2	39 1/8
3/16" Bar	20 7/16	21 1/16	21 11/16	22 5/16	22 15/16	23 9/16	24 3/16	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	36 11/16	37 5/16	37 15/16	38 9/16	39 3/16

No. of Bars	64	65	66	67	68	69	70	71	72	73	74	75	76	77
1/8" Bar	39 3/4	40 3/8	41	41 5/8	42 1/4	42 7/8	43 1/2	44 1/8	44 3/4	45 3/8	46	46 5/8	47 1/4	47 7/8
3/16" Bar	39 13/16	40 7/16	41 1/16	41 11/16	42 5/16	42 15/16	43 9/16	44 3/16	44 13/16	45 7/16	46 1/16	46 11/16	47 5/16	47 15/16

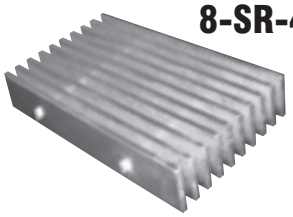
Aluminum Bar Grating Close-Mesh

Use our new bar grating calculator at **www.amico-grating.com/calculator**

RECTANGULAR BAR SWAGE-LOCKED CLOSE MESH

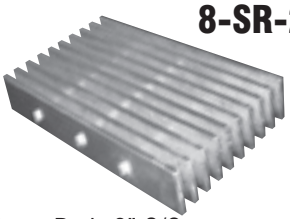
1/2" Center to Center of Bearing Bars

8-SR-4



Cross Rods 4" C/C

8-SR-2



Cross Rods 2" C/C

NON-SERRATED & SERRATED

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

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	8-SR-4	2.3	0.281	U	563	360	250	184	141								
	8-SR-2	2.5		D	0.192	0.300	0.432	0.588	0.768								
	8-AP-4	2.4		C	563	450	375	321	281								
	8-AP-2	2.8		D	0.154	0.240	0.346	0.470	0.614	0.778							
3/4" x 3/16" Non-Serrated Only	8-SR-4	3.5	0.422	U	844	540	375	276	211	167							
	8-SR-2	3.7		D	0.192	0.300	0.432	0.588	0.768	0.972							
	8-AP-4	3.7		C	844	675	563	482	422	375							
	8-AP-2	4.2		D	0.154	0.240	0.346	0.470	0.614	0.778							
1" x 1/8"	8-SR-4	3.5	0.500	U	1000	640	444	327	250	198	160						
	8-SR-2	3.7		D	0.144	0.225	0.324	0.441	0.576	0.729	0.900						
	8-AP-4	3.6		C	1000	800	667	571	500	444	400						
	8-AP-2	4.0		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
1" x 3/16"	8-SR-4	5.2	0.750	U	1500	960	667	490	375	296	240	198					
	8-SR-2	5.4		D	0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089					
	8-AP-4	5.5		C	1500	1200	1000	857	750	667	600	545					
	8-AP-2	6.0		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
1-1/4" x 1/8"	8-SR-4	4.2	0.781	U	1563	1000	694	510	391	309	250	207					
	8-SR-2	4.5		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
	8-AP-4	4.5		C	1563	1250	1042	893	781	694	625	568					
	8-AP-2	4.9		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/4" x 3/16"	8-SR-4	6.3	1.172	U	2344	1500	1042	765	586	463	375	310	260				
	8-SR-2	6.5		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037				
	8-AP-4	6.7		C	2344	1875	1563	1339	1172	1042	938	852	781				
	8-AP-2	7.4		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829				
1-1/2" x 1/8"	8-SR-4	5.1	1.125	U	2250	1440	1000	735	563	444	360	298	250	213			
	8-SR-2	5.3		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014			
	8-AP-4	5.3		C	2250	1800	1500	1286	1125	1000	900	818	750	692			
	8-AP-2	5.8		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811			
1-1/2" x 3/16"	8-SR-4	7.6	1.688	U	3375	2160	1500	1102	844	667	540	446	375	320	276		
	8-SR-2	7.8		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176		
	8-AP-4	8.1		C	3375	2700	2250	1929	1688	1500	1350	1227	1125	1038	964		
	8-AP-2	8.7		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941		
1-3/4" x 3/16"	8-SR-4	8.9	2.297	U	4594	2940	2042	1500	1148	907	735	607	510	435	375	287	
	8-SR-2	9.1		D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.317	
	8-AP-4	9.3		C	4594	3675	3063	2625	2297	2042	1838	1670	1531	1413	1313	1148	
	8-AP-2	10.0		D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.053	
2" x 3/16"	8-SR-4	10.1	3.000	U	6000	3840	2667	1959	1500	1185	960	793	667	568	490	375	296
	8-SR-2	10.3		D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458
	8-AP-4	10.5		C	6000	4800	4000	3429	3000	2667	2400	2182	2000	1846	1714	1500	1333
	8-AP-2	11.2		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
2-1/4" x 3/16"	8-SR-4	11.4	3.797	U	7594	4860	3375	2480	1898	1500	1215	1004	844	719	620	475	375
	8-SR-2	11.6		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
	8-AP-4	11.8		C	7594	6075	5063	4339	3797	3375	3038	2761	2531	2337	2170	1898	1688
	8-AP-2	12.4		D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	8-SR-4	12.6	4.688	U	9375	6000	4167	3061	2344	1852	1500	1240	1042	888	765	586	463
	8-SR-2	12.8		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
	8-AP-4	13.1		C	9375	7500	6250	5357	4688	4167	3750	3409	3125	2885	2679	2344	2083
	8-AP-2	13.7		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

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	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	30	31	32	33	34
1/8" Bar	1 7/8	2 3/8	2 7/8	3 3/8	3 7/8	4 3/8	4 7/8	5 3/8	5 7/8	6 3/8	6 7/8	7 3/8	7 7/8	8 3/8	8 7/8	9 3/8	9 7/8	10 3/8	10 7/8	11 3/8	11 7/8	12 3/8	12 7/8	13 3/8	13 7/8	14 3/8	14 7/8	15 3/8	15 7/8	16 3/8	16 7/8
3/16" Bar	1 15/16	2 7/16	2 15/16	3 7/16	3 15/16	4 7/16	4 15/16	5 7/16	5 15/16	6 7/16	6 15/16	7 7/16	7 15/16	8 7/16	8 15/16	9 7/16	9 15/16	10 7/16	10 15/16	11 7/16	11 15/16	12 7/16	12 15/16	13 7/16	13 15/16	14 7/16	14 15/16	15 7/16	15 15/16	16 7/16	16 15/16
No. of Bars	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
1/8" Bar	17 3/8	17 7/8	18 3/8	18 7/8	19 3/8	19 7/8	20 3/8	20 7/8	21 3/8	21 7/8	22 3/8	22 7/8	23 3/8	23 7/8	24 3/8	24 7/8	25 3/8	25 7/8	26 3/8	26 7/8	27 3/8	27 7/8	28 3/8	28 7/8	29 3/8	29 7/8	30 3/8	30 7/8	31 3/8	31 7/8	32 3/8
3/16" Bar	17 7/16	17 15/16	18 7/16	18 15/16	19 7/16	19 15/16	20 7/16	20 15/16	21 7/16	21 15/16	22 7/16	22 15/16	23 7/16	23 15/16	24 7/16	24 15/16	25 7/16	25 15/16	26 7/16	26 15/16	27 7/16	27 15/16	28 7/16	28 15/16	29 7/16	29 15/16	30 7/16	30 15/16	31 7/16	31 15/16	32 7/16
No. of Bars	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
1/8" Bar	32 7/8	33 3/8	33 7/8	34 3/8	34 7/8	35 3/8	35 7/8	36 3/8	36 7/8	37 3/8	37 7/8	38 3/8	38 7/8	39 3/8	39 7/8	40 3/8	40 7/8	41 3/8	41 7/8	42 3/8	42 7/8	43 3/8	43 7/8	44 3/8	44 7/8	45 3/8	45 7/8	46 3/8	46 7/8	47 3/8	47 7/8
3/16" Bar	32 15/16	33 7/16	33 15/16	34 7/16	34 15/16	35 7/16	35 15/16	36 7/16	36 15/16	37 7/16	37 15/16	38 7/16	38 15/16	39 7/16	39 15/16	40 7/16	40 15/16	41 7/16	41 15/16	42 7/16	42 15/16	43 7/16	43 15/16	44 7/16	44 15/16	45 7/16	45 15/16	46 7/16	46 15/16	47 7/16	47 15/16

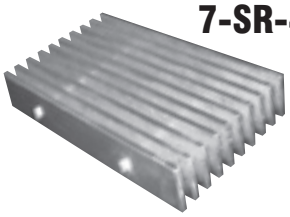
Aluminum Bar Grating Close-Mesh

Use our new bar grating calculator at **www.amico-grating.com/calculator**

RECTANGULAR BAR SWAGE-LOCKED CLOSE MESH

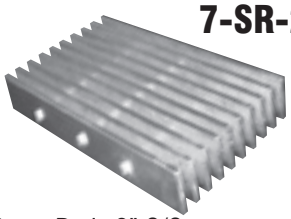
7/16" Center to Center of Bearing Bars

7-SR-4



Cross Rods 4" C/C

7-SR-2



Cross Rods 2" C/C

NON-SERRATED & SERRATED

PRESS-LOCKED CLOSE MESH

7/16" C/C Bearing Bars

7-AP-4

Cross Bars 4" C/C

7-AP-2

Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable 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 maximum 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.

Bar Size	Symbol	Approx. Weight psf	Sec. Mod Per Ft. Of Width		SPAN (Direction of Bearing Bar) 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	96"	108"
3/4" x 1/8" Non-Serrated Only	7-SR-4	2.6	0.321	U	643	411	286	210	161								
	7-SR-2	2.9		D	0.192	0.300	0.432	0.588	0.768								
	7-AP-4	2.7		C	643	514	429	367	321								
	7-AP-2	3.1		D	0.154	0.240	0.346	0.470	0.614								
3/4" x 3/16" Non-Serrated Only	7-SR-4	3.9	0.482	U	964	617	429	315	241	190							
	7-SR-2	4.1		D	0.192	0.300	0.432	0.588	0.768	0.972							
	7-AP-4	4.2		C	964	771	643	551	482	429							
	7-AP-2	4.7		D	0.154	0.240	0.346	0.470	0.614	0.778							
1" x 1/8"	7-SR-4	4.0	0.571	U	1143	731	508	373	286	226	183						
	7-SR-2	4.2		D	0.144	0.225	0.324	0.441	0.576	0.729	0.900						
	7-AP-4	4.1		C	1143	914	762	653	571	508	457						
	7-AP-2	4.4		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720						
1" x 3/16"	7-SR-4	5.9	0.857	U	1714	1097	762	560	429	339	274	227					
	7-SR-2	6.1		D	0.144	0.225	0.324	0.441	0.576	0.729	0.900	1.089					
	7-AP-4	6.2		C	1714	1371	1143	980	857	762	686	623					
	7-AP-2	6.7		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
1-1/4" x 1/8"	7-SR-4	4.8	0.893	U	1786	1143	794	583	446	353	286	236					
	7-SR-2	5.0		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871					
	7-AP-4	5.0		C	1786	1429	1190	1020	893	794	714	649					
	7-AP-2	5.5		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697					
1-1/4" x 3/16"	7-SR-4	7.2	1.339	U	2679	1714	1190	875	670	529	429	354	298	254			
	7-SR-2	7.4		D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.871	1.037	1.217			
	7-AP-4	7.6		C	2679	2143	1786	1531	1339	1190	1071	974	893	824			
	7-AP-2	8.3		D	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973			
1-1/2" x 1/8"	7-SR-4	5.8	1.286	U	2571	1646	1143	840	643	508	411	340	286	243			
	7-SR-2	6.0		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014			
	7-AP-4	6.0		C	2571	2057	1714	1469	1286	1143	1029	935	857	791			
	7-AP-2	6.5		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811			
1-1/2" x 3/16"	7-SR-4	8.7	1.929	U	3857	2469	1714	1259	964	762	617	510	429	365	315		
	7-SR-2	8.9		D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.864	1.014	1.176		
	7-AP-4	9.1		C	3857	3086	2571	2204	1929	1714	1543	1403	1286	1187	1102		
	7-AP-2	9.8		D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.941		
1-3/4" x 3/16"	7-SR-4	10.1	2.625	U	5250	3360	2333	1714	1313	1037	840	694	583	497	429	328	259
	7-SR-2	10.4		D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.741	0.869	1.008	1.317	1.666
	7-AP-4	10.6		C	5250	4200	3500	3000	2625	2333	2100	1909	1750	1615	1500	1313	1167
	7-AP-2	11.2		D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.053	1.333
2" x 3/16"	7-SR-4	11.5	3.429	U	6857	4389	3048	2239	1714	1354	1097	907	762	649	560	429	339
	7-SR-2	11.7		D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.545	0.648	0.761	0.882	1.152	1.458
	7-AP-4	12.0		C	6857	5486	4571	3918	3429	3048	2743	2494	2286	2110	1959	1714	1524
	7-AP-2	12.6		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
2-1/4" x 3/16"	7-SR-4	12.9	4.339	U	8679	5554	3857	2834	2170	1714	1389	1148	964	822	708	542	429
	7-SR-2	13.2		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
	7-AP-4	13.4		C	8679	6943	5786	4959	4339	3857	3471	3156	2893	2670	2480	2170	1929
	7-AP-2	14.0		D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819	1.037
2-1/2" x 3/16"	7-SR-4	14.4	5.357	U	10714	6857	4762	3499	2679	2116	1714	1417	1190	1014	875	670	529
	7-SR-2	14.6		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
	7-AP-4	14.8		C	10714	8571	7143	6122	5357	4762	4286	3896	3571	3297	3061	2679	2381
	7-AP-2	15.5		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

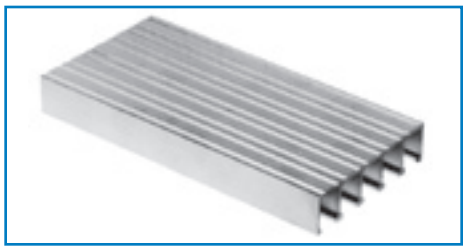
SR/AP-7 PANEL WIDTH (inches)

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	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
1/8" Bar	7 13/16	8 1/4	8 11/16	9 1/8	9 9/16	10	10 7/16	10 7/8	11 5/16	11 3/4	12 3/16	12 5/8	13 1/16	13 1/2	13 15/16	14 3/8	14 13/16	15 1/4	15 11/16	16 1/8	16 9/16	17	17 7/16	17 7/8	18 5/16	18 3/4	19 3/16	19 5/8	20 1/16	20 1/2	20 15/16
3/16" Bar	7 7/8	8 5/16	8 3/4	9 3/16	9 5/8	10 1/16	10 1/2	10 15/16	11 3/8	11 13/16	12 1/4	12 11/16	13 1/8	13 9/16	14	14 7/16	14 7/8	15 5/16	15 3/4	16 3/16	16 5/8	17 1/16	17 1/2	17 15/16	18 3/8	18 13/16	19 1/4	19 11/16	20 1/8	20 9/16	21
No. of Bars	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
1/8" Bar	21 3/8	21 13/16	22 1/4	22 11/16	23 1/8	23 9/16	24	24 7/16	24 7/8	25 5/16	25 3/4	26 3/16	26 5/8	27 1/16	27 1/2	27 15/16	28 3/8	28 13/16	29 1/4	29 11/16	30 1/8	30 9/16	31	31 7/16	31 7/8	32 5/16	32 3/4	33 3/16	33 5/8	34 1/16	34 1/2
3/16" Bar	21 7/16	21 7/8	22 5/16	22 3/4	23 3/16	23 5/8	24 1/16	24 1/2	24 15/16	25 3/8	25 13/16	26 1/4	26 11/16	27 1/8	27 5/16	28	28 7/16	28 7/8	29 5/16	29 3/4	30 1/16	30 5/8	31 1/16	31 1/2	31 15/16	32 3/8	32 13/16	33 1/4	33 11/16	34 1/8	34 9/16
No. of Bars	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110
1/8" Bar	34 15/16	35 3/8	35 13/16	36 1/4	36 11/16	37 1/8	37 9/16	38	38 7/16	38 7/8	39 5/16	39 3/4	40 3/16	40 5/8	41 1/16	41 1/2	41 15/16	42 3/8	42 13/16	43 1/4	43 11/16	44 1/8	44 9/16	45	45 7/16	45 7/8	46 5/16	46 3/4	47 3/16	47 5/8	48 1/16
3/16" Bar	35	35 7/16	35 7/8	36 5/16	36 3/4	37 3/16	37 5/8	38 1/16	38 1/2	38 15/16	39 3/8	39 13/16	40 1/4	40 11/16	41 1/8	41 9/16	42	42 7/16	42 7/8	43 5/16	43 3/4	44 3/16	44 5/8	45 1/16	45 1/2	45 15/16	46 3/8	46 13/16	47 1/4	47 11/16	48 1/8

DUO-GRIP™ EXTRUDED

A Duo-Grip™ grating panel consists of 6” wide planks of extruded aluminum, welded to each other to form panels. Panel ends have an extruded aluminum end bar welded in place. Grating is available unpunched or punched in one of the standard patterns.



Unpunched

Rectangular Punched

Square Punched

TABLE OF SAFE SPANS

Duo-Grip Depth	Symbol	Approx. Weight psf	Per Ft. Of Width Sec. Mod.	Per Ft. Of Width Mom. of Int.	SPAN	24”	30”	36”	42”	48”	54”	60”	66”	72”	78”	84”	96”	108”
3/4”	DG-075	2.5	0.261	0.136	U	435	278	193	142	109	86							
					D	0.115	0.180	0.259	0.353	0.461	0.583							
					C	435	348	290	249	218	193							
					D	0.092	0.144	0.207	0.282	0.368	0.466	60”						
1”	DG-100	3.1	0.456	0.309	U	760	486	338	248	190	150	122						
					D	0.089	0.138	0.199	0.271	0.354	0.448	0.553						
					C	760	608	507	434	380	338	304						
					D	0.071	0.111	0.159	0.217	0.283	0.359	0.443	66”	72”				
1-1/4”	DG-125	3.6	0.748	0.597	U	1247	798	554	407	312	246	199	165	139				
					D	0.075	0.117	0.169	0.230	0.301	0.381	0.470	0.569	0.677				
					C	1247	997	831	712	623	554	499	453	416	78”			
					D	0.060	0.094	0.135	0.184	0.241	0.304	0.376	0.455	0.541				
1-1/2”	DG-150	4.3	1.118	1.053	U	1863	1193	828	608	466	368	298	246	207	176			
					D	0.064	0.100	0.143	0.195	0.255	0.323	0.398	0.482	0.573	0.673			
					C	1863	1491	1242	1065	932	828	745	678	621	573	84”		
					D	0.051	0.080	0.115	0.156	0.204	0.258	0.319	0.385	0.459	0.538			
1-3/4”	DG-175	4.6	1.434	1.553	U	2390	1530	1062	780	598	472	382	316	266	226	195		
					D	0.055	0.087	0.125	0.170	0.222	0.280	0.346	0.419	0.499	0.585	0.679		
					C	2390	1912	1593	1366	1195	1062	956	869	797	735	683	96”	108”
					D	0.044	0.069	0.100	0.136	0.177	0.224	0.277	0.335	0.399	0.468	0.543		
2”	DG-200	5.3	2.078	2.461	U	3463	2217	1539	1131	866	684	554	458	385	328	283	216	171
					D	0.051	0.079	0.114	0.155	0.203	0.256	0.317	0.383	0.456	0.535	0.621	0.811	1.026
					C	3463	2771	2309	1979	1732	1539	1385	1259	1154	1066	990	866	770
					D	0.041	0.063	0.091	0.124	0.162	0.205	0.253	0.307	0.365	0.428	0.496	0.648	0.821
2-1/4”	DG-225	5.5	2.478	3.277	U	4130	2643	1836	1349	1033	816	661	546	459	391	337	258	204
					D	0.045	0.071	0.102	0.139	0.181	0.230	0.284	0.343	0.408	0.479	0.556	0.726	0.919
					C	4130	3304	2753	2360	2065	1836	1652	1502	1377	1271	1180	1033	918
					D	0.036	0.057	0.082	0.111	0.145	0.184	0.227	0.274	0.327	0.383	0.445	0.581	0.735
2-1/2”	DG-250	5.7	2.901	4.232	U	4835	3094	2149	1579	1209	955	774	639	537	458	395	302	239
					D	0.041	0.064	0.093	0.126	0.165	0.208	0.257	0.311	0.370	0.434	0.504	0.658	0.833
					C	4835	3868	3223	2763	2418	2149	1934	1758	1612	1488	1381	1209	1074
					D	0.033	0.051	0.074	0.101	0.132	0.167	0.206	0.249	0.296	0.348	0.403	0.526	0.666

U = Allowable uniform load, psf
D = Deflection due to U, in.
C = Allowable concentrated load per ft. of grating width, lbs.
D = Deflection due to C, in.
Allowable stress = 12,000 psi

Material: ASTM B-221—DUO-GRIP and banding shall be extruded aluminum alloy 6063-T6

Deflection: Spans and loads to the right of the bold line exceed 1/4” deflection for uniform load of 100 psf which provides maximum 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.

Duo-Grip™ Planking, a one-piece extruded 26’ long plank (standard), is available only from AMICO and has an exceptional strength and stiffness-to-weight ratio due to its integral I-beam ribs. It is available in either unpunched, square punched or rectangular punched styles to suit lighting and ventilation considerations. The 6” wide panels are welded together to form the desired panel width and an extruded aluminum end bar is welded into place. The design provides a surer walking surface for additional safety.

Stair Treads

All of AMICO's bar grating stair treads are designed and manufactured to comply with load requirements of ANSI/NAAMM MBG 531. AMICO stair treads are safe, self-cleaning, slip-resistant and economical. Steel and aluminum stair treads are available in a variety of styles: welded, riveted, press-locked, swage-locked and Duo-Grip™ extruded aluminum.

Welded steel stair treads are the most widely used for their strength and ease of installation and are universally used in most industrial and commercial applications. Riveted steel stair treads have a greater load carrying capacity for the same span and depth of bearing bar and greater walking comfort. Both can be ordered with a serrated surface for additional safety.

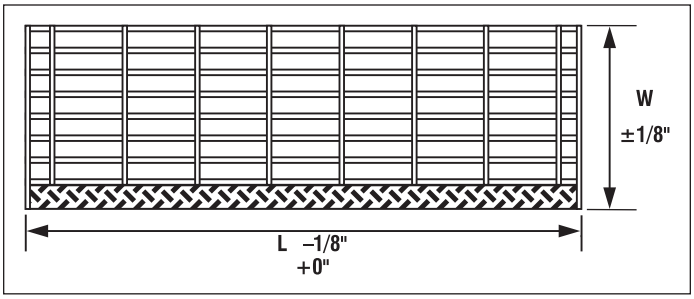
Aluminum stair treads, due to their light weight, high strength, corrosion resistance, rust proof and non-sparking properties, are ideally suited for corrosive environments, food preparation and storage areas, and volatile areas.

Swage-locked I-bar stair treads offer you high strength at less weight and lower cost. Rectangular bar, press-locked or swage-locked, stair treads provide a high strength and stiffness-to-weight ratio and are available with a serrated surface when additional safety is required. Our Duo-Grip™ plank stair treads give you an exceptional strength and stiffness-to-weight ratio.

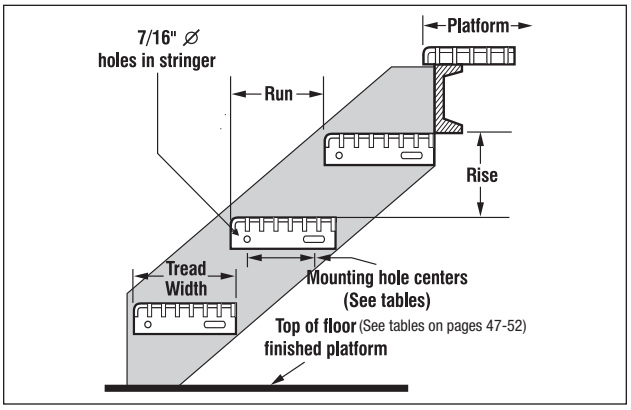
All stair treads are custom fabricated to meet the size, width and length specifications of a particular job. In addition, end plates can be custom fabricated to meet special bolt hole size or location requirements.

Both steel and aluminum nosings are available to add strength at the point of greatest impact and provide a definitive visible edge for extra safety. Choose our checkered plate nosing for normal use. For additional safety, choose our cast aluminum abrasive nosings or our corrugated aluminum nosings, or dimple nosing available in carbon, stainless or aluminum.

STAIR TREAD TOLERANCES AND DETAILS

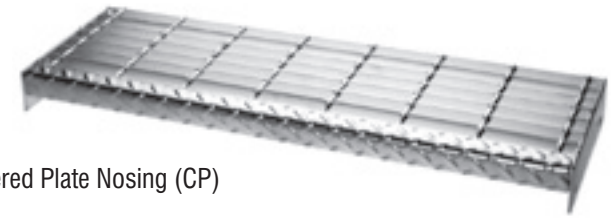


Tread Length and Width Tolerance

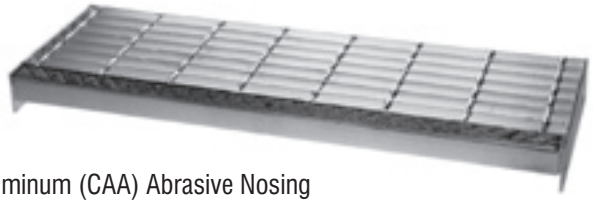


Typical Stair Tread Stringer Detail

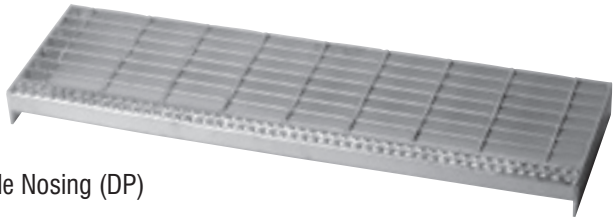
STEEL/WELDED & PRESS-LOCKED



Checkered Plate Nosing (CP)



Cast Aluminum (CAA) Abrasive Nosing



Dimple Nosing (DP)

STANDARD SIZES

Bearing Bars: 1" x 3/16", 1¼" x 3/16", 1½" x 3/16"

Widths: 9 ¾", 10 15/16", 12 1/8"

Lengths: 30" and 36"

All standard sizes available in painted and galvanized finishes.
We also provide excellent lead times on non-stock treads!

STEEL/WELDED & PRESS-LOCKED

MAXIMUM TREAD LENGTHS

	Bearing Bar Spacing			
	1-3/16" (19 space)		15/16" (15 space)	
Bearing Bar Size	Plain	Serrated	Plain	Serrated
3/4" x 3/16"	2'-4"	1'-11"	2'-8"	2'-2"
1" x 1/8"	2'-7"	2'-3"	3'-0"	2'-6"
1" x 3/16"	3'-5"	2'-10"	4'-0"	3'-4"
1-1/4" x 1/8"	3'-7"	3'-1"	4'-2"	3'-7"
1-1/4" x 3/16"	4'-8"	4'-2"	5'-1"	4'-6"
1-1/2" x 3/16"	5'-6"	5'-3"	5'-6"	5'-6"

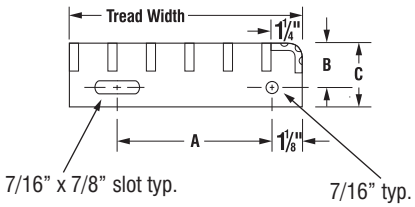
When tread length exceeds 5'-6", design tread for 300 lb concentrated loads at 1/3 points. Maximum tread length based on 300 lb concentrated load on front 5 in of tread at center of tread length and deflection limitation of 1/240 of length.

END PLATE DIMENSIONS

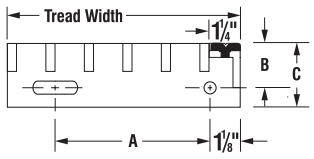
Grating Depth	"B" dimension	"C" dimension
up to 1-1/4"	1-3/4"	2-1/2"
*1-1/2" to 1-3/4"	2-1/4"	3"

See Tread Width and Bolt Hole Spacing for 'A' dimension.
*and all aluminum

With Checkered Plate Nosing



With Cast Aluminum Abrasive Nosing



TREAD WIDTH AND BOLT HOLE SPACING

19-W-4 and 19-P-4

No. of Bearing Bars and Nosing	Bearing Bar Tread Width 1/8"	Bearing Bar Tread Width 3/16"	**Bolt Hole Spacing "A"
5	6-1/8"	6-3/16"	2-1/2"
6	7-5/16"	7-3/8"	4-1/2"
7	8-1/2"	8-9/16"	4-1/2"
8	9-11/16"	9-3/4"	7"
9	10-7/8"	10-15/16"	7"
10	12-1/16"	12-1/8"	7"

**See drawing above.
NOTE: Weights are for Welded only. Call for Press-Locked Weights.

15-W-4 and 15-P-4

No. of Bearing Bars and Nosing	Bearing Bar Tread Width 1/8"	Bearing Bar Tread Width 3/16"	**Bolt Hole Spacing "A"
6	6-1/16"	6-1/8"	2-1/2"
7	7"	7-1/16"	4-1/2"
8	7-15/16"	8"	4-1/2"
9	8-7/8"	8-15/16"	4-1/2"
10	9-13/16"	9-7/8"	7"
11	10-3/4"	10-13/16"	7"

**See drawing above.

STAIR TREAD WEIGHTS (per lineal inch of tread length)

19-W-4

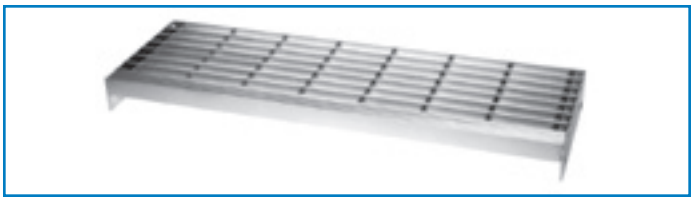
No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 1/8"	1-1/4" x 1/8"	3/4" x 3/16"	1" x 3/16"	1-1/4" x 3/16"	1-1/2" x 3/16"
5	CP/DP	.30	.35	.33	.39	.46	.55
	CAA	.34	.38	.36	.43	.49	.59
6	CP/DP	.35	.40	.38	.46	.53	.65
	CAA	.38	.44	.41	.49	.57	.68
7	CP/DP	.39	.45	.43	.52	.61	.74
	CAA	.43	.49	.46	.56	.65	.77
8	CP/DP	.44	.51	.48	.53	.69	.84
	CAA	.48	.54	.51	.62	.72	.87
9	CP/DP	.48	.56	.53	.64	.76	.93
	CAA	.52	.60	.56	.68	.80	.97
10	CP/DP	.53	.62	.58	.71	.84	1.02
	CAA	.56	.65	.61	.74	.88	1.06

CP-Checkered Plate
DP-Dimple Plate
CAA-Cast Aluminum Abrasive

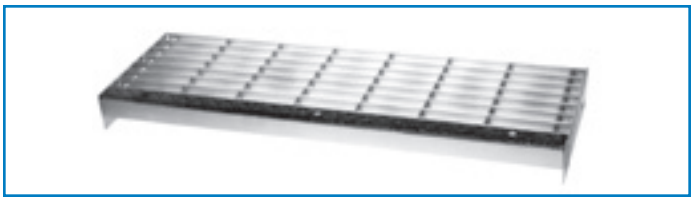
15-W-4

No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 1/8"	1-1/4" x 1/8"	3/4" x 3/16"	1" x 3/16"	1-1/4" x 3/16"	1-1/2" x 3/16"
6	CP/DP	.34	.39	.36	.44	.53	.63
	CAA	.37	.43	.40	.48	.56	.67
7	CP/DP	.38	.44	.41	.51	.60	.72
	CAA	.42	.58	.45	.54	.63	.76
8	CP/DP	.43	.49	.46	.57	.67	.81
	CAA	.46	.53	.49	.60	.71	.85
9	CP/DP	.47	.55	.51	.63	.75	.91
	CAA	.50	.58	.54	.66	.78	.94
10	CP/DP	.51	.60	.55	.69	.82	1.00
	CAA	.55	.63	.59	.73	.86	1.03
11	CP/DP	.55	.65	.60	.75	.89	1.09
	CAA	.59	.69	.64	.79	.93	1.13

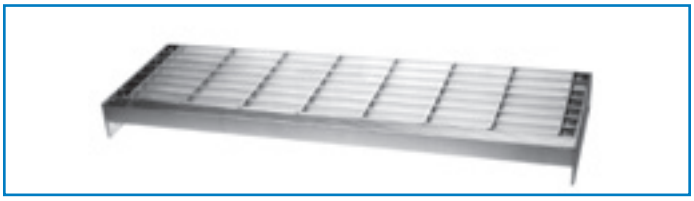
ALUMINUM/RECTANGULAR BAR SWAGE-LOCKED & PRESS-LOCKED



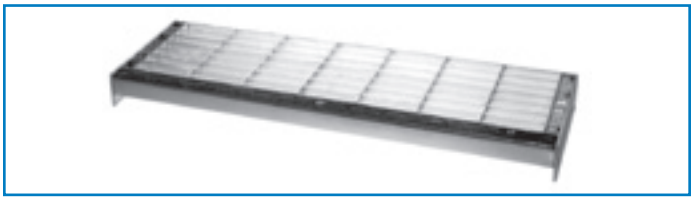
Swage-Locked (SR)
Corrugated Aluminum Nosing (CORR)



Swage-Locked (SR)
Cast Aluminum Abrasive Nosing (CAA)



Press-Locked (AP)
Corrugated Aluminum Nosing (CORR)



Press-Locked (AP)
Cast Aluminum Abrasive Nosing (CAA)

MAXIMUM TREAD LENGTHS

	Bearing Bar Spacing			
	1-3/16" (19 space)		15/16" (15 space)	
Bearing Bar Size	Plain	Serrated	Plain	Serrated
1" x 3/16"	2'-4"	2'-2"	2'-6"	2'-3"
1-1/4" x 3/16"	2'-10"	2'-7"	3'-1"	2'-9"
1-1/2" x 3/16"	3'-6"	3'-2"	3'-10"	3'-5"
1-3/4" x 3/16"	4'-3"	3'-10"	4'-8"	4'-3"

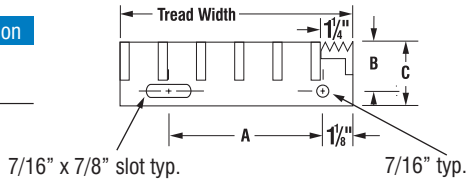
When tread length exceeds 5'-6", design tread for 300 lb concentrated loads at 1/3 points. Maximum tread length based on 300 lb concentrated load on front 5 in of tread at center of tread length and deflection limitation of 1/240 of length.

END PLATE DIMENSIONS

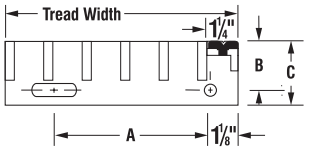
Grating Depth	"B" dimension	"C" dimension
up to 1-1/4"	1-3/4"	2-1/2"
*1-1/2" to 1-3/4"	2-1/4"	3"

See Tread Width and Bolt Hole Spacing for 'A' dimension.
*and all aluminum

With Corrugated Aluminum Nosing



With Cast Aluminum Abrasive Nosing



TREAD WIDTH & BOLT HOLE SPACING

19-SR-4 and 19-AP-4

No. of Bearing Bars and Nosing	Bearing Bar 3/16" Tread Width	**Bolt Hole Spacing "A"
5	6-3/16"	2-1/2"
6	7-3/8"	4-1/2"
7	8-9/16"	4-1/2"
8	9-3/4"	7"
9	10-15/16"	7"
10	12-1/8"	7"

**See drawing above.

15-SR-4 and 15-AP-4

No. of Bearing Bars and Nosing	Bearing Bar 3/16" Tread Width	**Bolt Hole Spacing "A"
6	6-1/8"	2-1/2"
7	7-1/16"	4-1/2"
8	8"	4-1/2"
9	8-15/16"	4-1/2"
10	9-7/8"	7"
11	10-13/16"	7"

**See drawing above.

STAIR TREAD WEIGHTS (per lineal inch of tread length)

19-SR-4

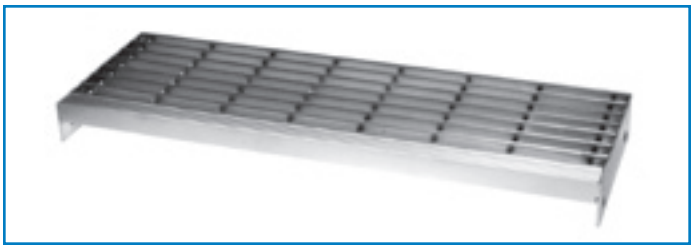
No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 3/16"	1-1/4" x 3/16"	1-1/2" x 3/16"	1-3/4" x 3/16"
5	CORR	.15	.17	.20	.22
	CAA	.19	.21	.24	.26
6	CORR	.17	.20	.23	.26
	CAA	.21	.23	.27	.30
7	CORR	.19	.23	.27	.30
	CAA	.23	.26	.31	.33
8	CORR	.22	.25	.30	.34
	CAA	.26	.29	.34	.38
9	CORR	.24	.28	.33	.38
	CAA	.28	.32	.37	.41
10	CORR	.26	.31	.37	.41
	CAA	.30	.35	.41	.46

15-SR-4

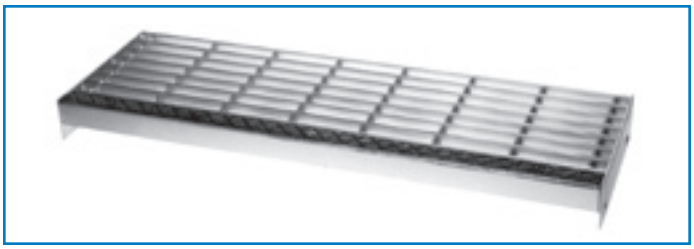
No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 3/16"	1-1/4" x 3/16"	1-1/2" x 3/16"	1-3/4" x 3/16"
6	CORR	.16	.19	.23	.25
	CAA	.21	.23	.27	.29
7	CORR	.19	.22	.26	.29
	CAA	.23	.26	.30	.33
8	CORR	.21	.24	.29	.33
	CAA	.25	.29	.33	.36
9	CORR	.23	.27	.32	.36
	CAA	.27	.31	.36	.41
10	CORR	.25	.30	.35	.40
	CAA	.29	.34	.39	.44
11	CORR	.28	.33	.39	.44
	CAA	.32	.37	.43	.48

NOTE:
Weights are for Swage-Locked only. Call for Weights on Pressed-Locked.

ALUMINUM/I-BAR SWAGE-LOCK



Swage-Locked (SI)
Corrugated Aluminum Nosing (CORR)



Swage-Locked (SI)
Cast Aluminum Abrasive Nosing (CAA)

MAXIMUM TREAD LENGTHS

	Bearing Bar Spacing	
Bearing Bar Size	1-3/16" (19 space)	15/16" (15 space)
1" x 1/4"	2'-4"	2'-6"
1-1/4" x 1/4"	2'-10"	3'-1"
1-1/2" x 1/4"	3'-6"	3'-10"
1-3/4" x 1/4"	4'-3"	4'-8"

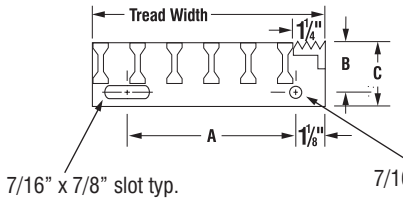
When tread length exceeds 5'-6", design tread for 300 lb concentrated loads at 1/3 points. Maximum tread length based on 300 lb concentrated load on front 5 in of tread at center of tread length and deflection limitation of 1/240 of length.

END PLATE DIMENSIONS

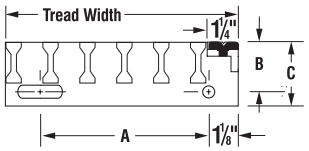
Grating Depth	"B" dimension	"C" dimension
up to 1-1/4"	1-3/4"	2-1/2"
*1-1/2" to 1-3/4"	2-1/4"	3"

See Tread Width and Bolt Hole Spacing for 'A' dimension.
*and all aluminum

With Corrugated Aluminum Nosing



With Cast Aluminum Abrasive Nosing



TREAD WIDTH & BOLT HOLE SPACING

19-SI-4

No. of Bearing Bars and Nosing	Bearing Bar 1/4" Tread Width	**Bolt Hole Spacing "A"
5	6-1/4"	2-1/2"
6	7-7/16"	4-1/2"
7	8-5/8"	4-1/2"
8	9-13/16"	7"
9	11"	7"
10	12-3/16"	7"

**See drawing above.

15-SI-4

No. of Bearing Bars and Nosing	Bearing Bar 1/4" Tread Width	**Bolt Hole Spacing "A"
6	6-3/16"	2-1/2"
7	7-1/8"	4-1/2"
8	8-1/16"	4-1/2"
9	9"	4-1/2"
10	9-15/16"	7"
11	10-7/8"	7"

**See drawing above.

STAIR TREAD WEIGHTS (per lineal inch of tread length)

19-SI-4

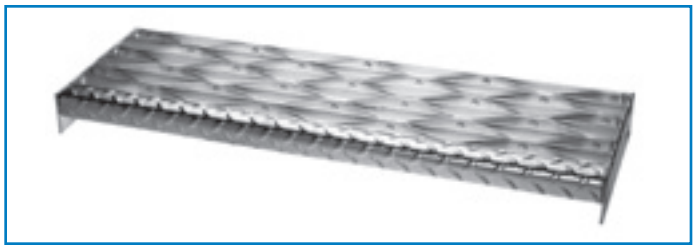
No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 1/4"	1-1/4" x 1/4"	1-1/2" x 1/4"	1-3/4" x 1/4"
5	CORR	.13	.14	.16	.18
	CAA	.17	.18	.20	.22
6	CORR	.14	.16	.19	.21
	CAA	.18	.21	.23	.25
7	CORR	.16	.19	.21	.24
	CAA	.20	.23	.25	.28
8	CORR	.18	.21	.24	.26
	CAA	.22	.25	.28	.31
9	CORR	.20	.23	.26	.29
	CAA	.24	.27	.31	.34
10	CORR	.22	.25	.29	.33
	CAA	.26	.29	.33	.36

15-SI-4

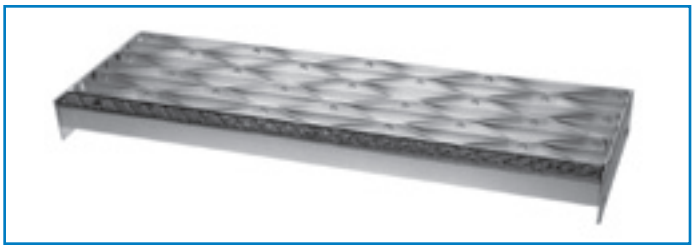
No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 1/4"	1-1/4" x 1/4"	1-1/2" x 1/4"	1-3/4" x 1/4"
6	CORR	.14	.16	.18	.20
	CAA	.18	.20	.22	.24
7	CORR	.16	.18	.20	.23
	CAA	.20	.22	.24	.27
8	CORR	.17	.20	.22	.26
	CAA	.21	.24	.27	.29
9	CORR	.19	.22	.25	.28
	CAA	.23	.26	.29	.33
10	CORR	.21	.24	.28	.31
	CAA	.25	.28	.30	.35
11	CORR	.23	.26	.30	.33
	CAA	.27	.31	.34	.38

Stair Treads

STEEL/RIVETED



Riveted (R)
Checker Plate Nosing (CP)



Riveted (R)
Cast Aluminum (CAA) Abrasive Nosing

MAXIMUM TREAD LENGTHS

	Bearing Bar Spacing			
	1-1/4" (18 space)		3/4" (12 space)	
Bearing Bar Size	Plain	Serrated	Plain	Serrated
3/4" x 3/16"	2'-0"	1'-5"	2'-8"	1'-9"
1" x 1/8"	2'-7"	1'-11"	3'-0"	2'-1"
1" x 3/16"	2'-10"	2'-0"	4'-0"	2'-8"
1-1/4" x 1/8"	3'-7"	2'-7"	4'-2"	3'-0"
1-1/4" x 3/16"	3'-10"	2'-10"	5'-1"	4'-0"
1-1/2" x 3/16"	5'-2"	3'-10"	5'-6"	5'-1"

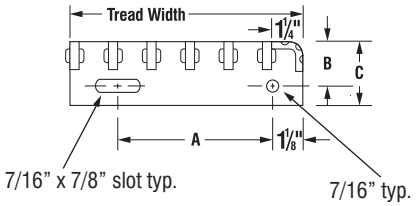
When tread length exceeds 5'-6", design tread for 300 lb concentrated loads at 1/3 points. Maximum tread length based on 300 lb concentrated load on front 5 in of tread at center of tread length and deflection limitation of 1/240 of length. Maximum lengths for serrated apply only if bearing bars are serrated.

END PLATE DIMENSIONS

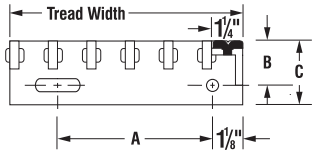
Grating Depth	"B" dimension	"C" dimension
up to 1-1/4"	1-3/4"	2-1/2"
*1-1/2" to 1-3/4"	2-1/4"	3"

See Tread Width and Bolt Hole Spacing for 'A' dimension.
*and all aluminum

With Checker Plate Nosing



With Cast Aluminum Abrasive Nosing



TREAD WIDTH AND BOLT HOLE SPACING

18-R-7

No. of Bearing Bars and Nosing	Bearing Bar Tread Width 1/8"	Bearing Bar Tread Width 3/16"	**Bolt Hole Spacing "A"
5	6-3/8"	6-11/16"	2-1/2"
6	7-5/8"	8"	4-1/2"
7	8-7/8"	9-5/16"	4-1/2"
8	10-1/8"	10-5/8"	7"
9	11-3/8"	11-15/16"	7"
10	12-5/8"	13-1/4"	7"

**See drawing above.

12-R-7

No. of Bearing Bars and Nosing	Bearing Bar Tread Width 1/8"	Bearing Bar Tread Width 3/16"	**Bolt Hole Spacing "A"
6	5-3/4"	6-1/8"	2-1/2"
7	6-5/8"	7-1/16"	4-1/2"
8	7-1/2"	8"	4-1/2"
9	8-3/8"	8-15/16"	4-1/2"
10	9-1/4"	9-7/8"	7"
11	10-1/8"	10-13/16"	7"

**See drawing above.

STAIR TREAD WEIGHTS (per lineal inch of tread length)

18-R-7

No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 1/8"	1-1/4" x 1/8"	3/4" x 3/16"	1" x 3/16"	1-1/4" x 3/16"	1-1/2" x 3/16"
5	CP	.38	.41	.42	.48	.54	.59
	CAA	.43	.43	.49	.53	.58	.64
6	CP	.45	.49	.49	.57	.64	.71
	CAA	.50	.54	.57	.62	.69	.76
7	CP	.53	.57	.57	.66	.75	.84
	CAA	.58	.62	.65	.71	.80	89
8	CP	.60	.65	.65	.75	.85	.96
	CAA	.65	.70	.74	.80	.90	1.01
9	CP	.67	.72	.73	.85	.96	1.08
	CAA	.72	.77	.83	.90	1.01	1.13
10	CP	.74	.80	.81	.94	1.07	1.20
	CAA	.79	.85	.90	.99	1.12	1.25

12-R-7

No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 1/8"	1-1/4" x 1/8"	3/4" x 3/16"	1" x 3/16"	1-1/4" x 3/16"	1-1/2" x 3/16"
6	CP	.45	.49	.47	.55	.61	.68
	CAA	.50	.54	.52	.60	.66	.73
7	CP	.52	.57	.59	.63	.71	.80
	CAA	.56	.62	.59	.68	.76	.84
8	CP	.58	.64	.62	.72	.81	.91
	CAA	.63	.69	.67	.77	.86	.96
9	CP	.65	.72	.69	.81	.91	1.02
	CAA	.70	.77	.74	.86	.96	1.03
10	CP	.72	.80	.77	.90	1.01	1.14
	CAA	.77	.85	.81	.94	1.04	1.19
11	CP	.79	.88	.84	.98	1.11	1.25
	CAA	.84	.92	.89	1.03	1.16	1.30

Stair Treads

ALUMINUM/DUO-GRIP™

Duo-Grip™ (DG) Punched

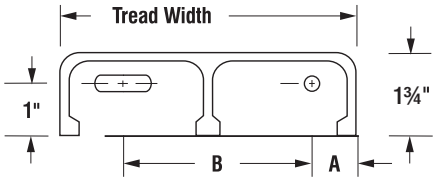
Duo-Grip™ (DG) Unpunched

TREAD APPLICATIONS

Width x Depth	Maximum Tread Length	A	B	Wt. Unpunched
3" x 1-3/4"	4'-3"	3/4"	1-1/4"	.10 pli
4" x 1-3/4"	5'-0"	3/4"	2-1/4"	.15 pli
6" x 1-3/4"	5'-5"	1-1/2"	3"	.18 pli
9" x 1-3/4"	5'-6"	1-1/2"	6"	.26 pli

Maximum tread length based on 300 lb concentrated load on entire tread at center of tread length and deflection limitation of 1/240 of length.

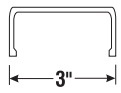
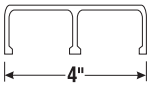
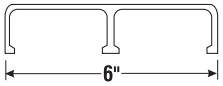
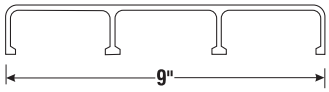
END PLATE DIMENSIONS



UNIFORM LOAD (pound per linear foot of tread length, plf)

Tread Width	Span (ft)							
	12"	18"	24"	30"	36"	42"	48"	54"
3"	2633	1170	658	421	293	215	165	130
4"	3346	1487	837	535	372	273	209	165
6"	3558	1581	890	569	395	290	222	176
9"	4419	1964	1105	707	491	361	276	218

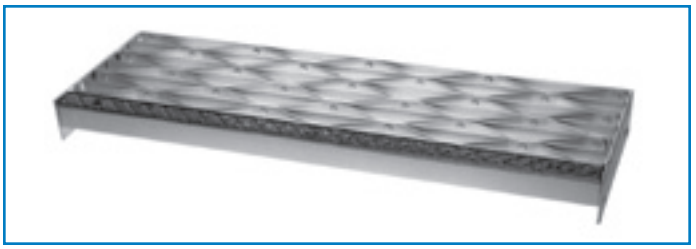
PHYSICAL PROPERTIES

Section Vlew	Symbol	Size	Weight (extrusion only)	Section Properties	
				Section Modulus (in^3)	Moment of Inertia (in^4)
	DG-3175	3" x 1-3/4"	1.195 plf	.3949	.4323
	DG-4175	4" x 1-3/4"	1.696 plf	.5019	.5579
	DG-6175	6" x 1-3/4"	2.041 plf	.5337	.6532
	DG-9175	9" x 1-3/4"	2.892 plf	.6629	.8445

Stair Treads

ALUMINUM/RIVETED

Riveted (R)
Corrugated Aluminum Nosing (CORR)



Riveted (R)
Cast Aluminum Abrasive Nosing (CAA)

MAXIMUM TREAD LENGTHS

	Bearing Bar Spacing			
	1-1/4" (18 space)		3/4" (12 space)	
Bearing Bar Size	Plain	Serrated	Plain	Serrated
1" x 1/8"	2'-0"	1'-6"	2'-3"	1'-8"
1" x 3/16"	2'-2"	1'-7"	2'-6"	2'-1"
1-1/4" x 1/8"	2'-6"	2'-0"	2'-8"	2'-3"
1-1/4" x 3/16"	2'-7"	2'-2"	3'-1"	2'-6"
1-1/2" x 3/16"	3'-2"	2'-7"	3'-10"	3'-1"

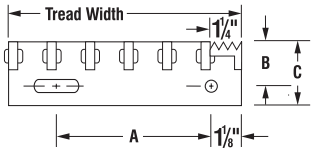
When tread length exceeds 5'-6", design tread for 300 lb concentrated loads at 1/3 points. Maximum tread length based on 300 lb concentrated load on front 5 in of tread at center of tread length and deflection limitation of 1/240 of length. Maximum lengths for serrated apply only if bearing bars are serrated.

END PLATE DIMENSIONS

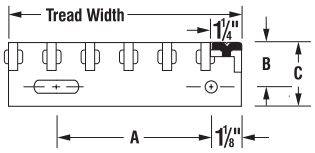
Grating Depth	"B" dimension	"C" dimension
up to 1-1/4"	1-3/4"	2-1/2"
*1-1/2" to 1-3/4"	2-1/4"	3"

See Tread Width and Bolt Hole Spacing for 'A' dimension.
*and all aluminum

With Corrugated Aluminum Nosing



With Cast Aluminum Abrasive Nosing



TREAD WIDTH AND BOLT HOLE SPACING

18-AR-7

No. of Bearing Bars and Nosing	Bearing Bar Tread Width 1/8"	Bearing Bar Tread Width 3/16"	**Bolt Hole Spacing "A"
5	6-3/8"	6-11/16"	2-1/2"
6	7-5/8"	8"	4-1/2"
7	8-7/8"	9-5/16"	4-1/2"
8	10-1/8"	10-5/8"	7"
9	11-3/8"	11-15/16"	7"
10	12-5/8"	13-1/4"	7"

**See drawing above.

12-AR-7

No. of Bearing Bars and Nosing	Bearing Bar Tread Width 1/8"	Bearing Bar Tread Width 3/16"	**Bolt Hole Spacing "A"
6	5-3/4"	6-1/8"	2-1/2"
7	6-5/8"	7-1/16"	4-1/2"
8	7-1/2"	8"	4-1/2"
9	8-3/8"	8-15/16"	4-1/2"
10	9-1/4"	9-7/8"	7"
11	10-1/8"	10-13/16"	7"

**See drawing above.

STAIR TREAD WEIGHTS (per lineal inch of tread length)

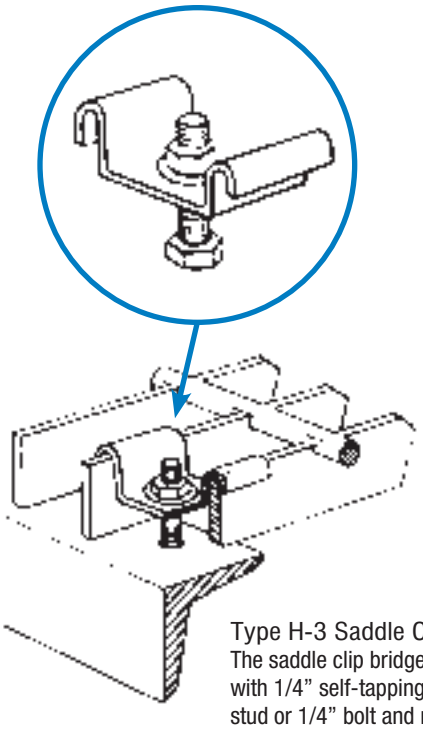
18-AR-7

No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 1/8"	1-1/4" x 1/8"	1" x 3/16"	1-1/4" x 3/16"	1-1/2" x 3/16"
5	CORR	.14	.15	.18	.20	.22
	CAA	.18	.18	.22	.23	.26
6	CORR	.17	.18	.21	.24	.26
	CAA	.20	.22	.25	.27	.30
7	CORR	.20	.21	.24	.28	.31
	CAA	.23	.25	.28	.32	.35
8	CORR	.22	.24	.28	.32	.36
	CAA	.26	.28	.32	.35	.39
9	CORR	.25	.27	.32	.36	.40
	CAA	.29	.30	.35	.39	.44
10	CORR	.27	.30	.35	.40	.44
	CAA	.31	.33	.39	.43	.48

12-AR-7

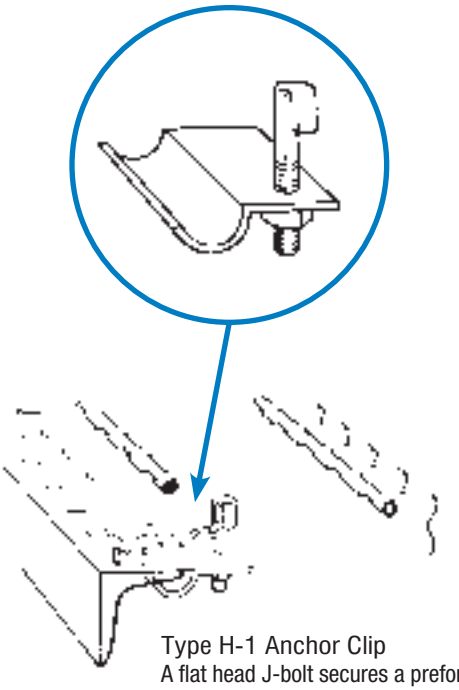
No. of Bearing Bars	Nosing	Bearing Bar Size 1" x 1/8"	1-1/4" x 1/8"	1" x 3/16"	1-1/4" x 3/16"	1-1/2" x 3/16"
5	CORR	.17	.18	.20	.23	.25
	CAA	.20	.22	.24	.26	.29
6	CORR	.19	.21	.23	.26	.30
	CAA	.23	.25	.27	.30	.33
7	CORR	.21	.24	.27	.30	.34
	CAA	.25	.27	..30	.34	.37
8	CORR	.24	.27	.30	.34	.38
	CAA	.28	.30	.34	.37	.41
9	CORR	.27	.30	.33	.37	.42
	CAA	.30	.33	.27	.41	.46
10	CORR	.29	.33	.36	.41	.46
	CAA	.33	.36	.40	.45	.50

Anchoring Details



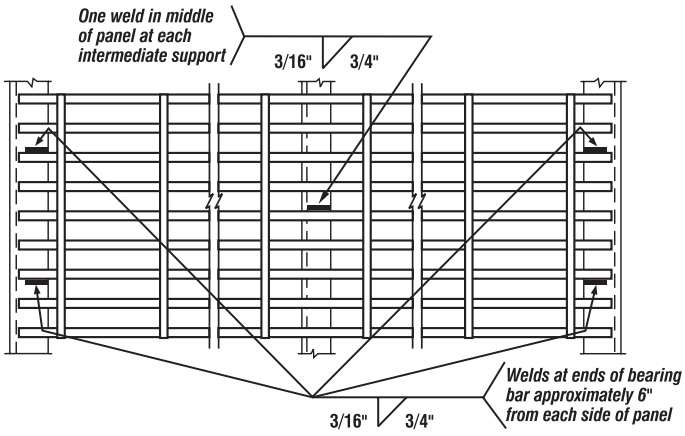
Type H-3 Saddle Clip

The saddle clip bridges two bearing bars and is attached with 1/4” self-tapping bolt, 1/4” self threader, 1/4” weld stud or 1/4” bolt and nut when hole is drilled through supporting flange. Available for 15/16”, 1-3/16” and 1-3/8” bearing bar spacings (15, 19 and 22 space) in carbon and stainless steel. Fasteners should be specified separate from clips. (Bolts not included)



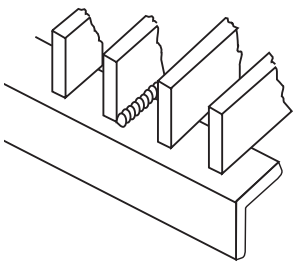
Type H-1 Anchor Clip

A flat head J-bolt secures a preformed plate to the underside of steel bearing bars and structural supporting flange. No drilling needed. Access to the underside of grating is required for installation. Available in carbon steel. J-bolt is 1/4” x 2-1/2” for grating up to 2-1/4” deep and 1/4” x 3-1/2” for 2-1/2” to 3-1/2” deep grating.



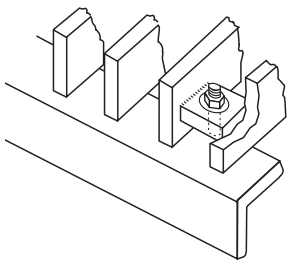
Attachment Locations

Attachments should be placed at intermediate supports in the middle of the panels and at the four bearing bar ends, 6” from each side of panel. Welds should be 3/16” fillet welds, 3/4” long. Heavy-Duty grating may require additional welding to meet application needs.



Welds

Recommended for all permanently installed grating panels. Welds should be 3/16” fillet welds, 3/4” long located approximately 6” from each side of panel (4 locations) and one weld in middle of panel at each intermediate support.



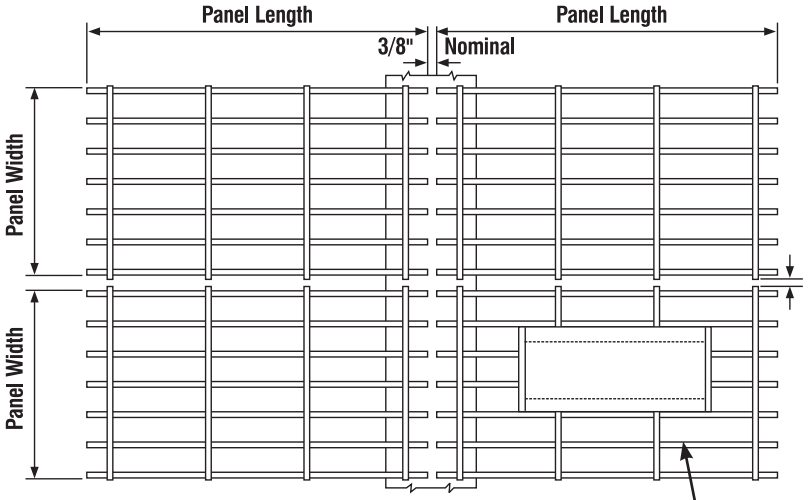
Weld Lugs

Weld lugs may be used for installations where grating is subject to removal. Weld lugs are shop fabricated and must be specified at time of grating order. Fasteners are 1/4” minimum and supplied by others. Location is the same as “Attachment Locations” diagram.

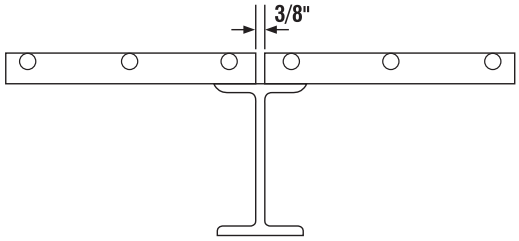
Other clips and fasteners available upon request.

Installation Clearances

PANEL TO PANEL CLEARANCES AND CUTOUT CLEARANCES



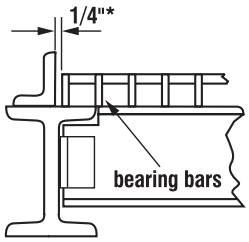
All panel width dimensions (including cutout) are given to the nearest bearing bar.



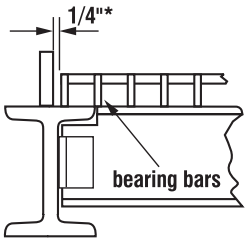
*Cross rods may extend 1/8" from bearing bars.

All rectangular cutouts are made to the next bearing bar beyond the penetration with a clearance not to exceed bearing bar spacing.

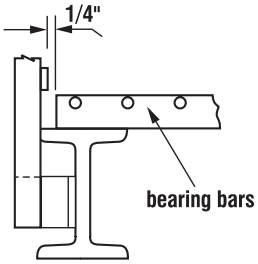
SUPPORT CLEARANCES



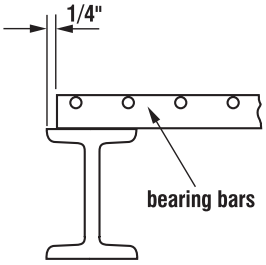
I-Beam and Angle Curb



I-Beam and Kickplate

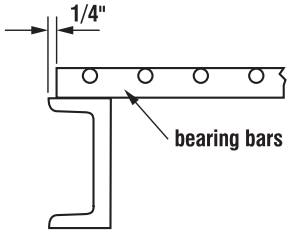


I-Beam and Handrail

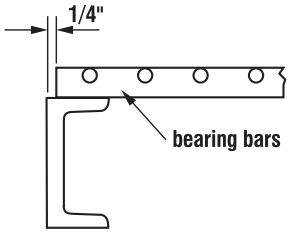


I-Beam

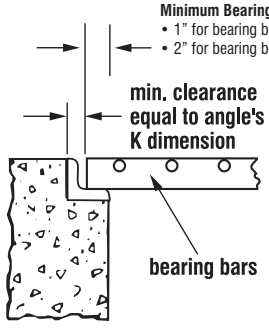
*1/4" is recommended but dimension may vary due to bearing bar spacing. Dimension should not exceed bearing bar spacing.



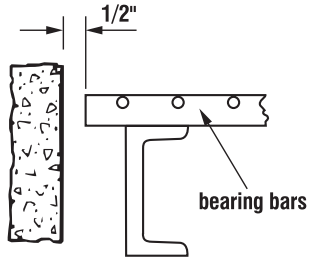
Channel Toed Out



Channel Toed In



Angle in Concrete

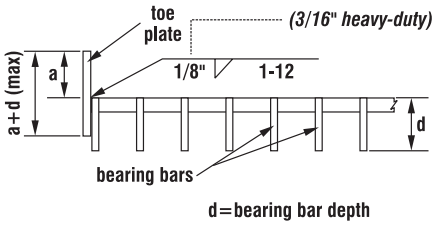


Concrete

Welding Standards

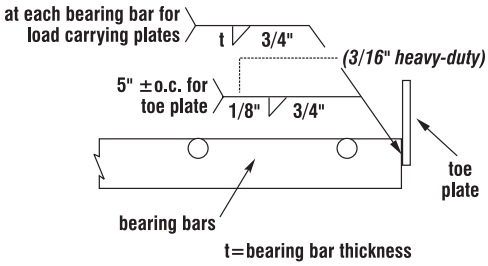
TOEPLATES

Maximum depth of toeplate is (a+d). It should not extend below the bearing bars. The minimum recommended dimension for “a”, the projection of toe plate above the grating, is 4”.



Attachment to Length of Bearing Bar

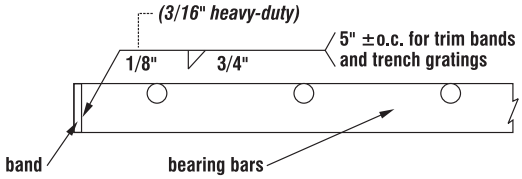
Toeplate to be welded with alternating 1/8” fillet welds, 1” long every 12”.



Attachment to End of Bearing Bar

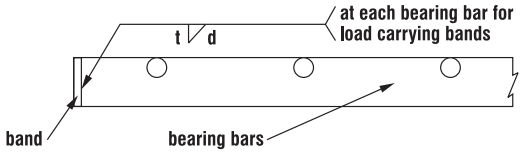
Load carrying toeplates to be welded at each bearing bar with a fillet weld the size of the bearing bar thickness (t), 3/4” long. Non-load carrying toeplates to be welded to bearing bars with 1/8” fillet weld (3/16” for heavy-duty), 3/4” long every 5”.

BANDING



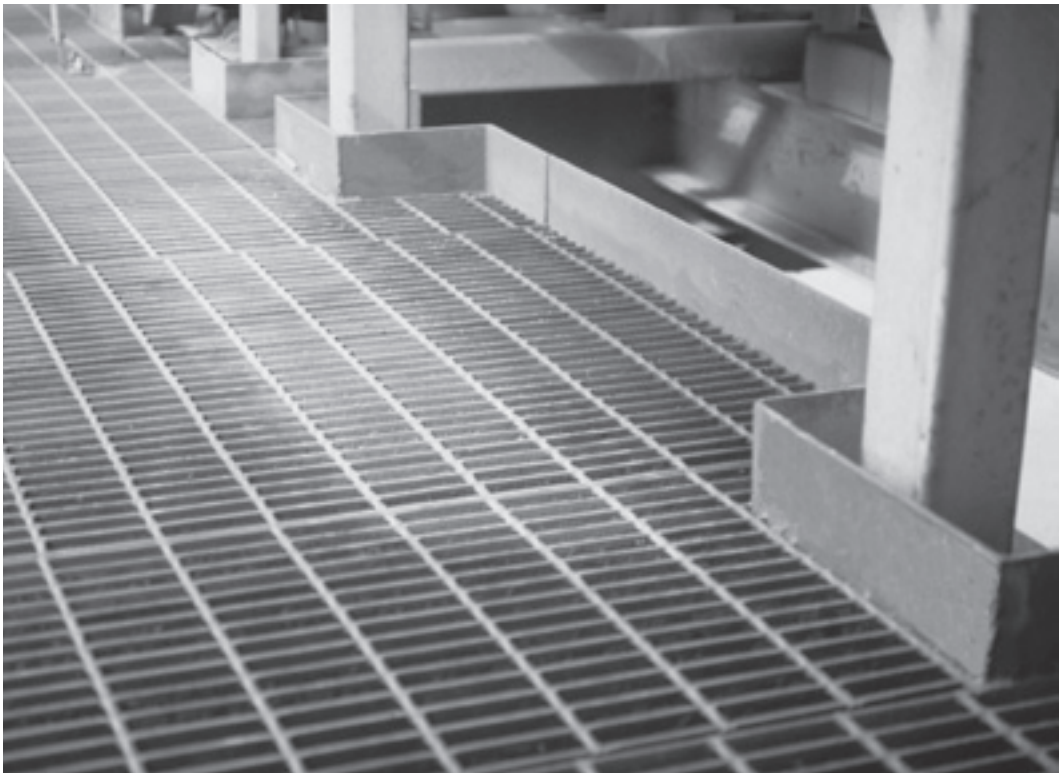
Standard Trim Band

End band to be welded with 1/8” fillet welds (3/16” for heavy duty), 3/4” long every 5”.



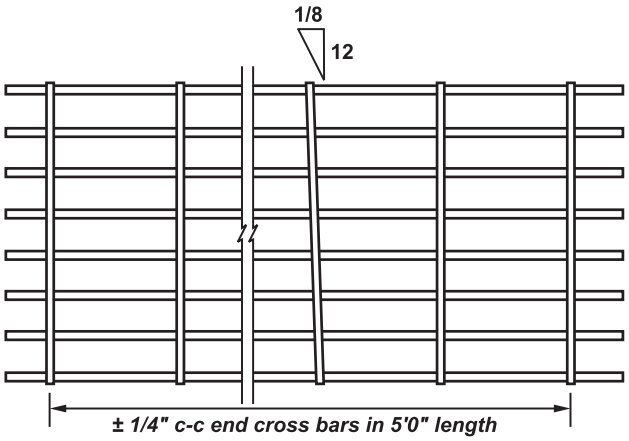
Load Banding (must specify)

Load carrying end band to be welded with fillet weld the size of bearing bar thickness (t) and the length of bearing bar depth (d) at each bearing bar. This spec is for standard grating. Refer to NAAMM MBG 532 for heavy duty specification.



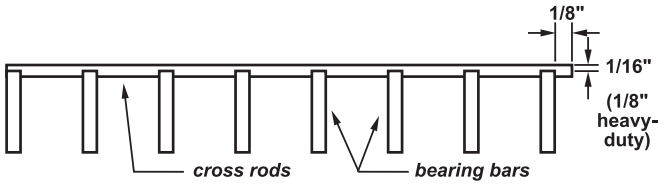
Manufacturing Tolerances

BEARING BAR AND CROSS ROD TOLERANCES



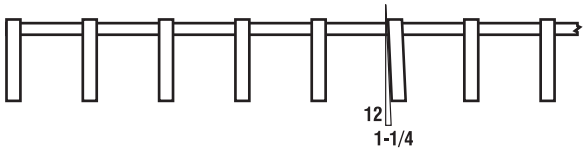
Cross Rod Spacing and Alignment

Cross rods should not vary more than a slope of 1/8" to 12" in either direction from perpendicular alignment with bearing bars. The tolerance of the cross bar spacing for 5' in length is ±1/4".



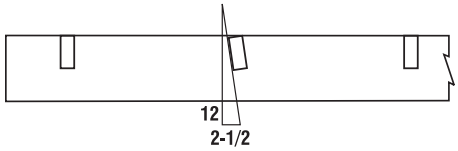
Cross Rod Position

The top of the cross rod should not project more than 1/16" above the top of the bearing bars for standard grating (1/8" for heavy-duty) and should not extend more than 1/8" from side of bearing bars.



Bearing Bar Lean

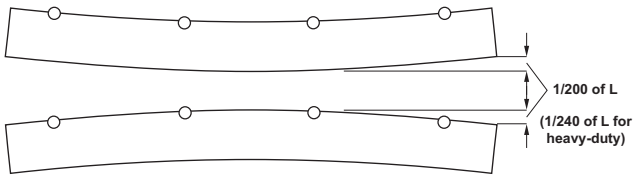
Bearing bar lean must not exceed a slope of 1-1/4 to 12.



Cross Bar Lean

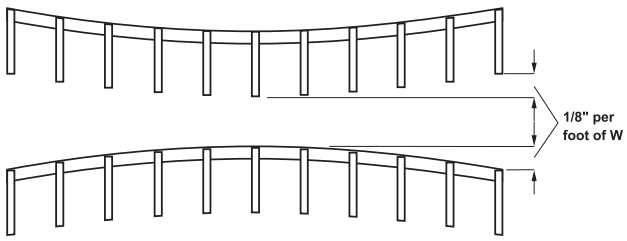
Cross bar lean must not exceed a slope of 2-1/2 to 12.

PANEL TOLERANCES



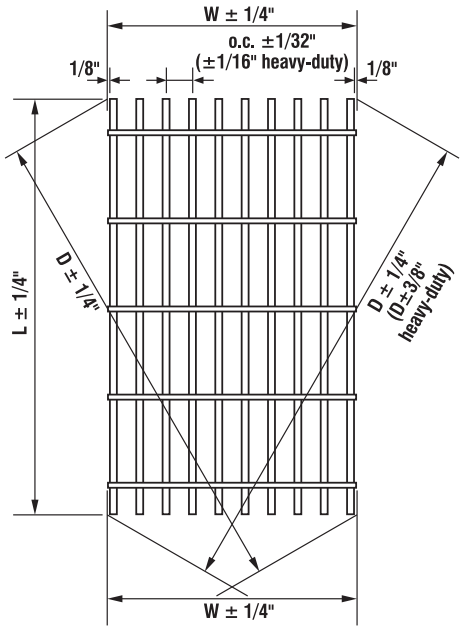
Longitudinal Bow

Longitudinal bow should be less than 1/200 of the length for standard grating (1/240 for heavy duty).



Tranverse Bow

Before banding, the tranverse bow should be less than 1/8" per foot of width.



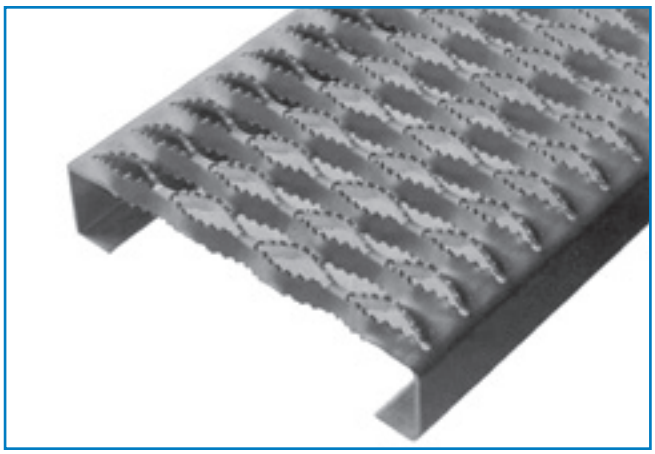
Overall Dimensions and Squareness

D = Overall diagonal dimension
W = Width of panel including cross rod extensions outside of bearing bars
L = Length of bearing bars

DIAMOND-GRIP®

PRODUCT DESCRIPTION

Diamond-Grip® is a one-piece metal plank grating manufactured by a cold forming process in the shape of a channel. The web of the channel is the walking surface and has rough serrated edges around diamond shaped openings.



FEATURES & BENEFITS

- Serrated edges around diamond shaped openings provide slip resistance under slippery conditions such as snow, ice, grease, oil, etc.
- One-piece metal construction.
- Lightweight design provides high strength to weight ratio.
- Long life span requiring little maintenance.
- Simple and economical installation as planks are self-framing.
- Adaptable to cost effective custom fabrication.
- Can be easily formed in standard channel or custom shapes.

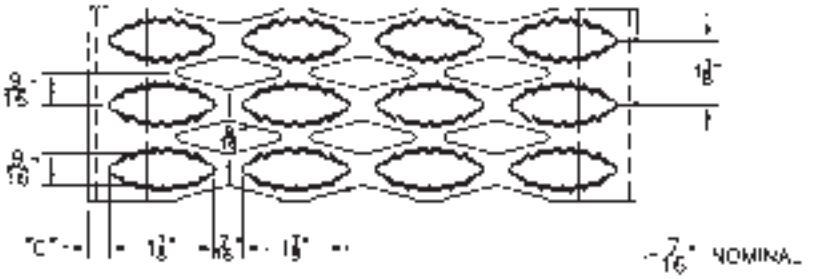
MATERIAL SPECIFICATIONS

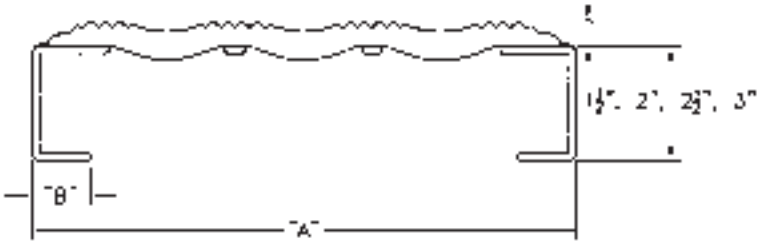
Grating shall be "Diamond-Grip® channel," manufactured from **(see 'Selections' below)** and complete with a (1-1/2", 2", 2-1/2", 3") side channel depth, by AMICO.

SELECTIONS

- ASTM-A-653, G-90 (Z-275) Pre-galvanized 14 and 12 gauge steel.
- ASTM-A-1011, HRP&O 14 and 12 gauge steel.
- 5052-H32 Aluminum, .080" and .100" thick.
- Type 316L 2B Stainless Steel 14 gauge (up to 11-3/4" width).
- Type 304L 2B Stainless Steel 16 gauge (up to 11-3/4" width).

CHANNEL WIDTH "A"	RETURN FLANGE "B"	DIAMOND TO OUTSIDE "C"
4 3/4"	7/8"	5/16"
7"	1"	1/4"
9 1/2"	7/8"	1/4"
11 3/4"	1"	3/16"
18 3/4"	1"	3/16"
24"	1 1/8"	7/16"





Note:

- Tolerances on all dimensions are ±1/8"
- Standard lengths are 121 1⁄2" & 144".
- Tolerance on manufactured and cut lengths is ±1/8".
- When cutting Diamond-Grip®, AMICO® recommends cutting to full or half diamond increments. Contact sales for actual dimensions.

LOAD & DEFLECTION TABLES

Explanation of Load Type

U = uniform load (lb/ft²)
D = corresponding deflection (in) resulting from uniform load
C = concentrated load (lb)
D = corresponding deflection (in) resulting from concentrated load

Note:

- All UDL and concentrated loads include a safety factor of 1.67.
- Spans and loads to the right of the bold line, based on loads indicated, may exceed deflections of L/120.
- 2½" channel not shown in tables. Available by special request only.

4 3/4 Inch Wide - 2 Diamond

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 14 GA	1-1/2"	.267	U	1516	970	674	495	379	299	243	200	168								
			D	0.09	0.13	0.19	0.25	0.32	0.41	0.51	0.61	0.73								
	2.3 lb/ft	.202	C	600	480	400	343	300	267	240	218	200								
			D	0.06	0.10	0.15	0.21	0.26	0.33	0.45	0.57	0.59								
	2"	.513	U	2236	1431	994	730	559	442	358	296	248	212	183	159	140	110	89		
			D	0.06	0.08	0.13	0.17	0.22	0.29	0.34	0.42	0.50	0.59	0.68	0.78	0.90	1.12	1.38		
	2.5 lb/ft	.298	C	885	708	590	506	443	393	354	322	295	272	253	236	221	197	177		
			D	0.06	0.07	0.10	0.14	0.17	0.23	0.27	0.33	0.40	0.46	0.54	0.63	0.71	0.90	1.11		
Steel 12 GA	1-1/2"	.125	U	1790	1147	798	587	451	357	290	240	203	173	150	131	116				
			D	0.07	0.10	0.15	0.20	0.27	0.34	0.42	0.51	0.61	0.71	0.83	0.96	1.09				
	3.0 lb/ft	.278	C	708	568	474	407	357	318	287	262	241	223	208	195	184				
			D	0.05	0.08	0.12	0.16	0.21	0.27	0.33	0.41	0.48	0.57	0.66	0.77	0.88				
	2"	.263	U	2255	1445	1005	739	567	449	365	302	255	218	188	165	145	116	95	79	67
			D	0.05	0.07	0.10	0.14	0.19	0.24	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.98	1.22	1.49	1.79
	3.3 lb/ft	.211	C	892	715	597	512	449	400	361	329	303	280	261	245	230	206	188	172	160
			D	0.04	0.06	0.08	0.11	0.15	0.19	0.21	0.28	0.34	0.40	0.46	0.53	0.61	0.78	0.97	1.19	1.43
Alum .080"	2"	.223	U	1398	895	622	457	350	277	225	186	156	133	115	101	89				
			D	0.09	0.14	0.20	0.27	0.36	0.45	0.56	0.68	0.81	0.95	1.11	1.27	1.45				
	.93 lb/ft	.233	C	553	443	369	317	277	247	222	202	186	172	160	149	140				
			D	0.07	0.11	0.16	0.22	0.29	0.36	0.45	0.54	0.65	0.76	0.88	1.02	1.16				
Alum .100"	2"	.279	U	1794	1148	797	586	448	354	287	237	199	170	146	128	112				
			D	0.09	0.14	0.21	0.28	0.37	0.46	0.57	0.69	0.83	0.97	1.12	1.29	1.47				
	1.16 lb/ft	.291	C	710	568	473	406	355	316	284	258	237	218	203	189	178				
			D	0.08	0.12	0.17	0.23	0.30	0.37	0.46	0.56	0.66	0.78	0.90	1.03	1.18				
Stainless Steel 14 GA	2"	.339	U	1730	1109	772	568	436	346	281	233	196	168	146	127	113				
			D	0.05	0.07	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.49	0.57	0.66	0.76				
	2.5 lb/ft	.281	C	685	549	458	394	345	308	278	254	233	216	202	189	178				
			D	0.04	0.06	0.08	0.11	0.15	0.19	0.23	0.28	0.33	0.39	0.46	0.53	0.61				

Type 5052 H32

Type 5052 H32

Type 316

LOAD & DEFLECTION TABLES

Explanation of Load Type

U = uniform load (lb/ft²)
D = corresponding deflection (in) resulting from uniform load
C = concentrated load (lb)
D = corresponding deflection (in) resulting from concentrated load

Note:

- All UDL and concentrated loads include a safety factor of 1.67.
- Spans and loads to the right of the bold line, based on loads indicated, may exceed deflections of L/120.
- 2½" channel not shown in tables. Available by special request only.

7 Inch Wide - 3 Diamond

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 14 GA	1-1/2"	.115	U	766	492	343	253	194	154	126	105	92								
			D	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45	0.55								
	2.9 lb/ft	.141	C	447	358	300	258	227	203	183	168	159								
			D	0.05	0.07	0.11	0.14	0.19	0.24	0.30	0.36	0.44								
	2"	.235	U	1374	881	613	451	347	275	223	185	156	134	116	101	90	72	59		
			D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.46	0.54	0.63	0.72	0.83	1.06	1.32		
	3.2 lb/ft	.186	C	802	642	536	461	404	361	326	297	273	254	237	222	209	188	172		
			D	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.31	0.36	0.43	0.50	0.58	0.66	0.85	1.06		
Steel 12 GA	1-1/2"	.154	U	1304	836	582	428	329	261	212	176	148	127	110	96	85				
			D	0.07	0.11	0.16	0.22	0.29	0.36	0.45	0.55	0.65	0.77	0.90	1.04	1.18				
	3.9 lb/ft	.194	C	761	609	509	437	384	342	309	282	259	240	224	210	198				
			D	0.06	0.09	0.13	0.17	0.23	0.29	0.36	0.44	0.52	0.62	0.72	0.83	0.95				
	2"	.313	U	1710	1096	762	561	430	341	277	230	194	165	143	125	111	88	72	60	51
			D	0.05	0.08	0.11	0.15	0.20	0.26	0.32	0.38	0.46	0.54	0.63	0.72	0.83	1.06	1.32	1.62	1.95
	4.4 lb/ft	.254	C	997	799	667	573	502	447	404	368	339	314	292	274	258	232	211	194	180
			D	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.31	0.37	0.43	0.50	0.58	0.66	0.85	1.06	1.29	1.56
	3"	1.263	U	3247	2080	1446	1063	815	645	523	433	365	309	267	233	205	163	133	111	94
			D	0.04	0.06	0.08	0.11	0.14	0.18	0.22	0.27	0.32	0.38	0.44	0.50	0.57	0.73	0.91	1.11	1.33
	5.1 lb/ft	.532	C	1894	1516	1265	1086	951	847	763	695	639	585	545	510	479	428	388	355	328
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.22	0.26	0.30	0.35	0.40	0.46	0.58	0.73	0.89	1.06
Alum .080"	2"	.266	U	975	624	434	319	244	193	157	130	109	93	81						
			D	0.10	0.16	0.23	0.31	0.40	0.51	0.63	0.76	0.91	1.07	1.24						
	1.2 lb/ft	.212	C	568	455	380	326	285	254	229	208	191	177	164						
			D	0.08	0.13	0.18	0.25	0.32	0.41	0.50	0.61	0.73	0.85	1.00						
Alum .100"	2"	.333	U	1169	748	520	382	292	231	187	155	130	111	95	83	73				
			D	0.08	0.12	0.17	0.23	0.30	0.37	0.46	0.56	0.67	0.78	0.90	1.04	1.18				
	1.5 lb/ft	.265	C	682	546	455	390	341	303	273	248	227	210	195	182	171				
			D	0.06	0.10	0.14	0.18	0.24	0.30	0.37	0.45	0.53	0.63	0.73	0.83	0.95				
Stainless Steel 14 GA	2"	.383	U	1819	1166	811	597	458	363	295	244	206	176	153	133	118				
			D	0.08	0.13	0.18	0.25	0.33	0.41	0.51	0.62	0.74	0.88	1.02	1.18	1.35				
	3.2 lb/ft	.310	C	1061	850	710	609	534	476	430	392	361	334	311	292	275				
			D	0.06	0.10	0.15	0.20	0.26	0.33	0.41	0.50	0.60	0.70	0.82	0.94	1.08				

Type 5052 H32

Type 5052 H32

Type 316

LOAD & DEFLECTION TABLES

Explanation of Load Type

U = uniform load (lb/ft²)
D = corresponding deflection (in) resulting from uniform load
C = concentrated load (lb)
D = corresponding deflection (in) resulting from concentrated load

Note:

- All UDL and concentrated loads include a safety factor of 1.67.
- Spans and loads to the right of the bold line, based on loads indicated, may exceed deflections of L/120.
- 2½" channel not shown in tables. Available by special request only.

9 1/2 Inch Wide - 4 Diamond

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 14 GA	1-1/2"	.128	U	779	499	346	255	195	154	125	103	87								
			D	0.09	0.12	0.19	0.26	0.33	0.41	0.52	0.62	0.74								
	3.5 lb/ft	.170	C	617	494	411	353	309	274	247	224	206								
			D	0.06	0.10	0.15	0.20	0.27	0.33	0.41	0.50	0.60								
	2"	.264	U	1063	681	474	349	268	213	173	144	121	104	90	79	70	56	46		
			D	0.05	0.08	0.12	0.16	0.21	0.26	0.33	0.40	0.47	0.56	0.65	0.75	0.86	1.10	1.38		
	3.7 lb/ft	.224	C	841	674	563	484	425	379	342	312	288	267	249	234	221	199	181		
			D	0.04	0.06	0.09	0.13	0.17	0.21	0.26	0.32	0.38	0.45	0.52	0.60	0.69	0.88	1.10		
Steel 12 GA	1-1/2"	.172	U	988	634	441	325	249	198	161	133	113	96	84	73	65				
			D	0.08	0.12	0.17	0.23	0.30	0.39	0.48	0.58	0.69	0.82	0.95	1.10	1.26				
	4.8 lb/ft	.225	C	782	627	524	450	395	352	318	291	268	248	232	218	205				
			D	0.06	0.09	0.14	0.19	0.24	0.31	0.38	0.46	0.55	0.65	0.76	0.88	1.01				
	2"	.354	U	1382	886	616	453	348	276	224	186	157	134	116	101	90	72	59	49	42
			D	0.05	0.08	0.12	0.16	0.21	0.27	0.34	0.41	0.49	0.57	0.67	0.77	0.88	1.13	1.41	1.72	2.08
	5.1 lb/ft	.306	C	1094	876	732	628	551	491	443	404	372	345	321	301	284	255	232	213	198
			D	0.04	0.07	0.10	0.13	0.17	0.22	0.27	0.33	0.39	0.46	0.54	0.62	0.71	0.89	1.13	1.38	1.66
	3"	1.363	U	2270	1453	1009	741	567	548	444	367	308	263	226	197	173	137	111	92	77
			D	0.04	0.06	0.08	0.11	0.14	0.22	0.28	0.33	0.40	0.47	0.54	0.62	0.70	0.89	1.10	1.35	1.60
	5.8 lb/ft	.605	C	1355	1355	1355	1255	1098	976	878	799	732	676	627	586	549	488	439	399	366
			D	0.02	0.04	0.07	0.11	0.15	0.18	0.22	0.27	0.32	0.38	0.43	0.49	0.56	0.71	0.89	1.04	1.27
Alum .080"	2"	.300	U	800	512	356	261	200	158	128	106	89	76	65	57	50				
			D	0.12	0.19	0.27	0.37	0.50	0.62	0.76	0.94	1.12	1.30	1.49	1.73	1.97				
	1.4 lb/ft	.256	C	633	507	422	362	317	282	253	230	211	195	181	169	158				
			D	0.10	0.16	0.23	0.30	0.40	0.49	0.62	0.74	0.88	1.04	1.21	1.38	1.57				
Alum .100"	2"	.375	U	897	574	399	293	224	177	143	119	100	85	73	64	56				
			D	0.07	0.11	0.15	0.21	0.27	0.35	0.43	0.52	0.61	0.72	0.84	0.96	1.09				
	1.75 lb/ft	.32	C	710	568	473	406	355	316	284	258	237	218	203	189	178				
			D	0.06	0.09	0.13	0.17	0.22	0.28	0.34	0.42	0.49	0.58	0.67	0.77	0.88				
Stainless Steel 16 GA	2"	.143	U	750	480	330	240	186	147	120	99	82	70	58	47	39	27			
			D	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45	0.53	0.63	0.70	0.75	0.80	0.90			
	3.2 lb/ft	.165	C	455	455	398	341	299	265	239	217	199	184	171	159	149	133			
			D	0.04	0.07	0.11	0.15	0.19	0.24	0.30	0.36	0.43	0.51	0.59	0.67	0.76	0.97			
Stainless Steel 14 GA	2"	.401	U	1540	887	687	506	388	307	250	207	175	149	129	113	100	80			
			D	0.07	0.11	0.16	0.22	0.28	0.36	0.44	0.54	0.64	0.76	0.88	1.02	1.17	1.49			
	3.7 lb/ft	.287	C	915	915	816	700	614	548	494	451	415	384	358	336	316	284			
			D	0.04	0.08	0.13	0.17	0.23	0.29	0.36	0.43	0.52	0.61	0.71	0.82	0.93	1.19			

Type 5052 H32

Type 5052 H32

Type 304

Type 316

LOAD & DEFLECTION TABLES

Explanation of Load Type

U = uniform load (lb/ft²)
D = corresponding deflection (in) resulting from uniform load
C = concentrated load (lb)
D = corresponding deflection (in) resulting from concentrated load

Note:

- All UDL and concentrated loads include a safety factor of 1.67.
- Spans and loads to the right of the bold line, based on loads indicated, may exceed deflections of L/120.
- 2½" channel not shown in tables. Available by special request only.

11 3/4 Inch Wide - 5 Diamond

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 14 GA	1-1/2"	.146	U	543	349	243	179	138	110	89	74	63								
			D	0.06	0.10	0.15	0.20	0.26	0.33	0.41	0.50	0.60								
	4.1 lb/ft	.178	C	493	427	357	307	270	242	219	201	185								
			D	0.05	0.08	0.12	0.16	0.21	0.27	0.33	0.40	0.48								
	2"	.314	U	895	574	400	295	226	179	146	121	102	87	75	65	57	45			
			D	0.05	0.08	0.12	0.16	0.21	0.27	0.34	0.41	0.49	0.57	0.66	0.76	0.86	1.09			
	4.5 lb/ft	.247	C	493	493	493	493	443	395	357	326	299	276	259	239	224	199			
			D	0.02	0.05	0.08	0.13	0.17	0.22	0.27	0.33	0.39	0.46	0.53	0.60	0.69	0.87			
Steel 12 GA	1-1/2"	.195	U	842	540	376	276	212	168	137	113	95	82	71	62	55				
			D	0.08	0.13	0.18	0.25	0.32	0.41	0.51	0.62	0.73	0.87	1.01	1.16	1.33				
	5.7 lb/ft	.244	C	815	661	552	474	415	370	334	305	280	260	242	227	214				
			D	0.06	0.10	0.14	0.20	0.26	0.33	0.41	0.49	0.59	0.69	0.81	0.93	1.06				
	2"	.419	U	1243	797	554	408	313	248	200	166	139	119	102	89	78	62	50	41	
			D	0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.44	0.52	0.61	0.72	0.82	0.92	1.19	1.44	1.75	
	6.1 lb/ft	.338	C	815	815	814	699	613	545	491	446	409	378	351	327	307	273	245	223	
			D	0.03	0.06	0.10	0.14	0.19	0.24	0.29	0.35	0.41	0.49	0.57	0.65	0.75	0.94	1.15	1.41	
	3"	1.672	U	1666	1363	946	695	532	421	341	282	237	202	174	151	133	105	85	70	59
			D	0.03	0.07	0.10	0.13	0.18	0.23	0.28	0.34	0.40	0.47	0.55	0.63	0.71	0.90	1.13	1.34	1.60
	6.7 lb/ft	.702	C	815	815	815	815	815	815	815	758	695	642	596	556	521	463	417	379	347
			D	0.01	0.03	0.05	0.07	0.11	0.16	0.22	0.27	0.32	0.38	0.43	0.50	0.57	0.73	0.89	1.07	1.29
Alum .080"	2"	.355	U	715	457	319	233	179	141	114	94	79	68	58	51	45				
			D	0.15	0.23	0.33	0.45	0.58	0.74	0.90	1.10	1.32	1.54	1.77	2.07	2.38				
	1.6 lb/ft	.283	C	362	362	362	362	350	311	280	254	233	215	200	187	175				
			D	0.06	0.12	0.21	0.32	0.46	0.60	0.74	0.88	1.05	1.23	1.44	1.65	1.88				
Alum .100"	1.5"	.207	U	493	316	219	161	123	97	79	65	55	47	40	35	31				
			D	0.08	0.13	0.19	0.25	0.33	0.42	0.52	0.62	0.74	0.87	1.01	1.16	1.32				
	1.9 lb/ft	.254	C	483	386	322	276	241	215	193	176	161	149	138	129	121				
			D	0.07	0.11	0.15	0.21	0.27	0.34	0.42	0.50	0.60	0.70	0.81	0.93	1.06				
Alum .100"	2"	.444	U	725	464	322	237	181	143	116	96	81	69	59	52	45				
			D	0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.44	0.52	0.61	0.71	0.81	0.92				
	2.0 lb/ft	.354	C	710	568	473	406	355	316	284	258	237	218	203	189	178				
			D	0.05	0.07	0.11	0.14	0.19	0.24	0.29	0.35	0.42	0.49	0.57	0.65	0.74				
Stainless Steel 16 GA	2"	.143	U	606	426	296	218	167	132	107	88	74	63	54	48	41	29			
			D	0.05	0.08	0.11	0.16	0.21	0.26	0.32	0.38	0.46	0.53	0.63	0.73	0.80	0.90			
	3.7 lb/ft	.165	C	376	376	376	376	333	296	266	242	222	205	190	178	166	148			
			D	0.02	0.04	0.07	0.10	0.16	0.21	0.25	0.31	0.37	0.43	0.50	0.57	0.65	0.82			
Stainless Steel 14 GA	2"	.427	U	1276	812	565	416	319	253	206	171	144	123	107	93	82	66			
			D	0.09	0.14	0.20	0.27	0.36	0.46	0.56	0.69	0.82	0.97	1.13	1.30	1.48	1.90			
	4.5 lb/ft	.313	C	899	899	830	713	625	557	503	459	423	392	365	343	323	290			
			D	0.05	0.10	0.16	0.22	0.29	0.36	0.45	0.55	0.66	0.77	0.90	1.04	1.19	1.52			

Type 5052 H32 (Alum .080", 1.6 lb/ft)
Type 5052 H32 (Alum .100", 1.9 lb/ft)
Type 5052 H32 (Alum .100", 2.0 lb/ft)
Type 304 (Stainless Steel 16 GA, 3.7 lb/ft)
Type 316 (Stainless Steel 14 GA, 4.5 lb/ft)

LOAD & DEFLECTION TABLES

18 3/4 Inch Wide - 8 Diamond

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 14 GA	1-1/2"	.178	U	411	263	182	134	103	81	66	54	46								
			D	0.08	0.11	0.18	0.24	0.31	0.39	0.49	0.58	0.70								
	5.9 lb/ft	.216	C	555	513	428	365	321	285	257	233	214								
			D	0.06	0.10	0.14	0.19	0.25	0.31	0.38	0.47	0.55								
	2"	.347	U	606	388	269	198	152	120	97	80	67	57	49	43	38				
			D	0.06	0.08	0.12	0.16	0.21	0.27	0.33	0.39	0.48	0.56	0.64	0.73	0.84				
	6.1 lb/ft	.319	C	555	555	555	541	474	421	379	245	316	292	271	253	237				
			D	0.02	0.05	0.08	0.13	0.17	0.21	0.27	0.32	0.38	0.45	0.52	0.60	0.67				
	1-1/2"	.240	U	553	354	246	181	138	109	89	73	61	53	46	40					
			D	0.07	0.11	0.17	0.23	0.30	0.38	0.48	0.58	0.68	0.80	0.94	1.09					
	8.2 lb/ft	.291	C	818	691	576	494	432	384	346	314	288	267	250	235					
			D	0.06	0.09	0.14	0.19	0.25	0.31	0.38	0.46	0.54	0.64	0.75	0.87					
Steel 12 GA	2"	.473	U	825	528	367	269	206	163	132	109	92	78	67	59	52	41			
			D	0.06	0.09	0.12	0.17	0.23	0.29	0.35	0.43	0.51	0.59	0.68	0.79	0.90	1.14			
	8.5 lb/ft	.434	C	818	818	818	737	644	573	516	496	430	397	368	344	322	286			
			D	0.03	0.06	0.09	0.13	0.18	0.23	0.28	0.33	0.40	0.47	0.55	0.63	0.71	0.90			
	3"	1.245	U	1047	942	654	480	368	291	235	195	163	139	120	105	92	73	59	49	41
			D	0.03	0.06	0.10	0.13	0.18	0.22	0.27	0.33	0.39	0.45	0.53	0.61	0.69	0.88	1.07	1.31	1.55
	9.3 lb/ft	.774	C	818	818	818	818	818	818	818	818	766	707	657	613	575	511	460	418	383
			D	0.01	0.02	0.04	0.07	0.10	0.14	0.19	0.26	0.31	0.36	0.42	0.48	0.56	0.70	0.87	1.05	1.24
Alum .100"	2"	.573	U	514	329	229	168	129	102	83	69	58	49			Type 5052 H32				
			D	0.16	0.25	0.36	0.48	0.61	0.79	0.97	1.18	1.40	1.65							
	2.7 lb/ft	.525	C	537	537	537	460	402	353	323	299	269	249							
			D	0.09	0.15	0.28	0.39	0.50	0.63	0.78	0.93	1.12	1.31							

24 Inch Wide - 10 Diamond

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 14 GA	1-1/2"	.221	U	367	235	163	120	92	72	59	49	41	35	30						
			D	0.09	0.14	0.20	0.27	0.34	0.44	0.56	0.66	0.79	2.70	3.11						
	7.3 lb/ft	.247	C	571	571	489	419	367	326	293	267	245	226	210						
			D	0.06	0.10	0.15	0.21	0.28	0.35	0.44	0.53	0.62	2.16	2.51						
	2"	.427	U	539	345	240	176	135	106	86	71	60	51.00	44	38	34	27			
			D	0.05	0.09	0.13	0.17	0.23	0.29	0.35	0.43	0.51	0.60	0.69	0.78	0.90	1.18			
	7.6 lb/ft	.363	C	571	571	571	571	539	479	431	392	359	332	308	287	270	240			
			D	0.02	0.05	0.08	0.12	0.18	0.24	0.29	0.35	0.41	0.48	0.55	0.64	0.72	0.92			
	1-1/2"	.299	U	496	317	220	162	124	98	79	66	55	47							
			D	0.08	0.13	0.18	0.25	0.32	0.41	0.50	0.61	0.72	0.86							
	10.1 lb/ft	.334	C	861	794	661	567	496	441	397	361	332	305							
			D	0.05	0.10	0.14	0.20	0.26	0.33	0.41	0.49	0.58	0.68							
Steel 12 GA	2"	.584	U	738	472	328	241	185	146	118	98	82	70	60	52	46				
			D	0.06	0.09	0.14	0.18	0.23	0.30	0.36	0.45	0.54	0.63	0.72	0.82	1.22				
	10.8 lb/ft	.497	C	861	861	861	843	738	656	590	537	492	454	422	394	369				
			D	0.03	0.06	0.09	0.14	0.18	0.24	0.29	0.36	0.42	0.50	0.57	0.67	0.76				
	3"	1.513	U	861	835	580	426	326	258	209	173	145	124	107	93	82	64	52	43	36
			D	0.03	0.07	0.10	0.14	0.18	0.22	0.28	0.33	0.40	0.47	0.55	0.63	0.71	0.89	1.09	1.34	1.61
	11.3 lb/ft	.879	C	861	861	861	861	861	861	861	861	861	803	746	696	653	580	522	475	435
			D	0.01	0.02	0.04	0.06	0.09	0.13	0.18	0.24	0.31	0.37	0.44	0.50	0.57	0.72	0.88	1.08	1.28

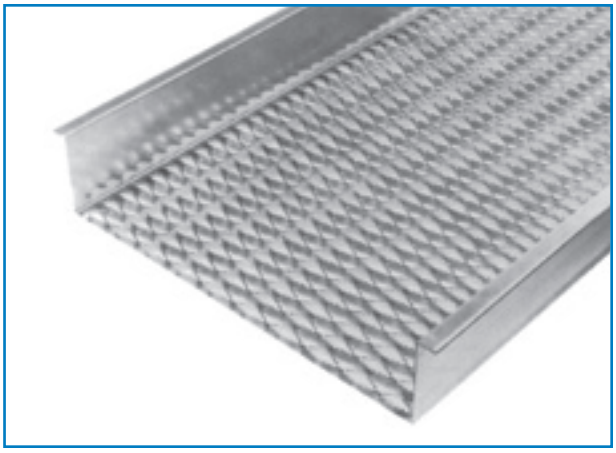
Note:

- Strut deflection may become a limiting factor on 18” and 24” widths resulting in lower load values as indicated in tables.
- Web stiffeners can be supplied for ends and junctions of planks to even deflection if required.

DIAMOND-GRIP® WALKWAY

PRODUCT DESCRIPTION

Diamond-Grip® walkway is a one-piece metal plank grating manufactured by a cold forming process in the shape of an inverted channel. The web of the channel is the walking surface and has rough serrated edges around diamond shaped openings. Diamond openings are complete with radiused corners at the saddle and side channel location. The extended flanges support the load and provide a built in kickplate (toeboard).



FEATURES & BENEFITS

- Serrated edges around diamond shaped openings provide slip resistance under slippery conditions such as snow, ice, grease, oil, etc.
- Radiused corners reduce the possibility of stress cracks across saddles or at the side of channels under various loading conditions.
- Self-cleaning due to resilience of walking surface.
- One-piece metal construction complete with a full height toeboard on each side of the walking surface.
- Lightweight design provides high strength to weight ratio.
- Long life span requiring little maintenance.
- Simple and economical installation as walkways are self-framing.
- Adaptable to cost effective custom fabrication.

MATERIAL SPECIFICATIONS

Grating shall be "Diamond-Grip® walkway," manufactured from **(see 'Selections' below)** and complete with an (4-1⁄2", 5") integral toeboard, by AMICO.

SELECTIONS

- ASTM-A-653, G-90 (Z-275) pre-galvanized 14 or 12 gauge steel.
- ASTM-A-1011, HRP&O 14 or 12 gauge steel.

DIAMOND-GRIP® WALKWAY

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
24" Wide 14 GA	4-1/2"	1.447	U	300	300	300	300	300	263	213	176	145	124	110	94	84	67	55	44	37
			D	0.50	0.51	0.52	0.55	0.58	0.55	0.49	0.46	0.45	0.43	0.47	0.46	0.51	0.58	0.67	0.75	0.87
	8.9 lb/ft	.776	C	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
			D	0.40	0.40	0.40	0.41	0.42	0.43	0.44	0.46	0.48	0.50	0.53	0.56	0.60	0.69	0.80	0.95	1.10
24" Wide 12 GA	4-1/2"	2.457	U	475	475	475	475	475	429	348	287	240	203	177	150	135	107	87	71	60
			D	0.45	0.46	0.47	0.49	0.52	0.51	0.47	0.43	0.42	0.41	0.43	0.43	0.48	0.54	0.62	0.72	0.84
	12.5 lb/ft	1.171	C	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475
			D	0.36	0.36	0.36	0.36	0.36	0.39	0.41	0.43	0.44	0.46	0.49	0.51	0.54	0.60	0.70	0.81	0.95
24" Wide 14 GA	5"	1.929	U	300	300	300	300	300	263	213	176	145	124	110	94	84	67	55	44	37
			D	0.50	0.50	0.52	0.54	0.56	0.55	0.46	0.42	0.39	0.38	0.40	0.39	0.42	0.47	0.53	0.58	0.67
	9.6 lb/ft	.917	C	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
			D	0.40	0.40	0.40	0.40	0.41	0.42	0.43	0.45	0.46	0.48	0.50	0.52	0.55	0.62	0.70	0.82	0.97
24" Wide 12 GA	5"	3.247	U	475	475	475	475	475	429	348	287	240	203	177	150	135	107	87	71	60
			D	0.45	0.46	0.46	0.48	0.50	0.49	0.44	0.39	0.37	0.36	0.37	0.36	0.39	0.43	0.49	0.56	0.65
	13.1 lb/ft	1.385	C	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475
			D	0.36	0.36	0.36	0.36	0.37	0.38	0.40	0.41	0.42	0.43	0.44	0.47	0.49	0.55	0.61	0.69	0.80

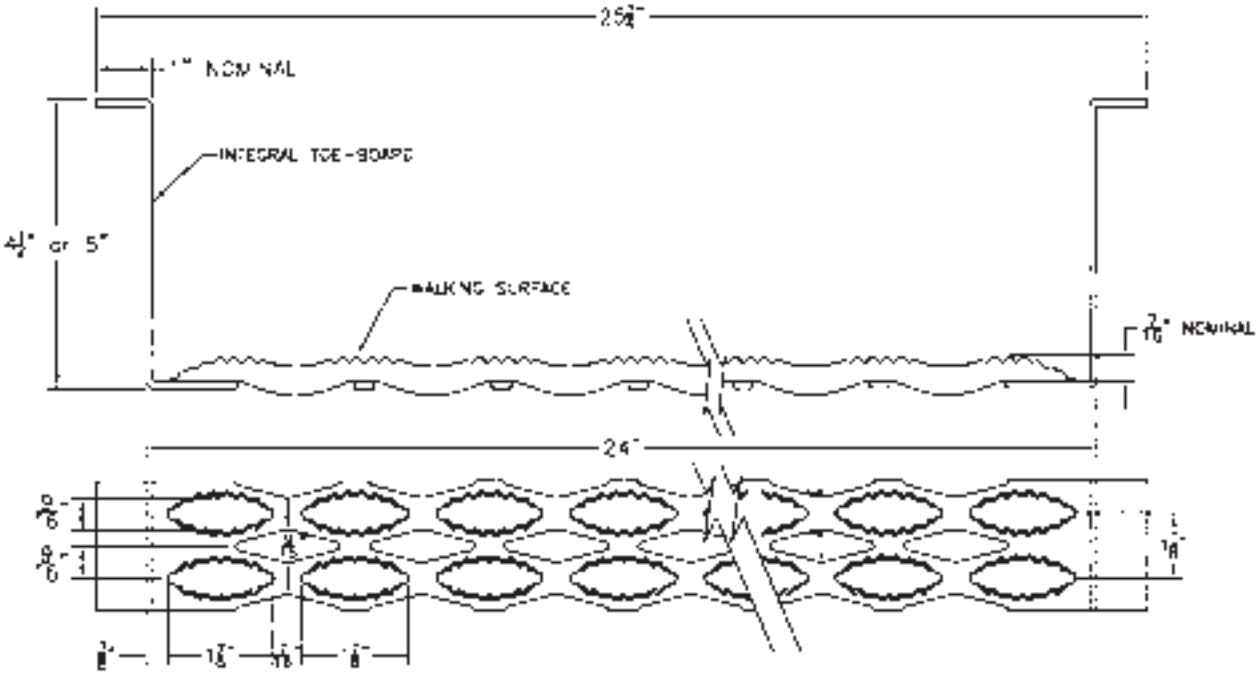
Explanation of Load Type

U = uniform load (lb/ft²)
D = corresponding deflection (in) resulting from uniform load
C = concentrated load (lb)
D = corresponding deflection (in) resulting from concentrated load

Note:

- All UDL and concentrated loads include a safety factor of 1.67.
- Strut deflection may become a limiting factor resulting in lower load values as indicated in table.

TECHNICAL DETAILS



Note:

- Tolerances on all dimensions are ±1/8”
- Standard lengths are 121 1⁄2” & 144”.
- Tolerance on manufactured and cut lengths is ±1/8”.
- When cutting Diamond-Grip®, AMICO® recommends cutting to full or half diamond increments.
- Camber is an expected condition with sheet metal products. While ASTM allowance is generous, AMICO attempts to lessen the effects. Normal clearances should offset this phenomenon, however where tolerances warrant, contact AMICO for clarification.

SAFETY-GRIP®

PRODUCT DESCRIPTION

Safety-Grip® is a one-piece metal plank grating manufactured by a cold forming process in the shape of a channel. The web of the channel is the walking surface and has large debossed holes, surrounded by smaller embossed traction buttons.

FEATURES & BENEFITS

- Embossed traction buttons provide superior slip resistance in all directions and in all weather conditions.
- Large debossed holes provide maximum drainage of debris and allow up to 50% free air opening depending on channel width.
- Self-cleaning due to resilience of walking surface.
- One-piece metal construction.
- Lightweight design provides high strength to weight ratio.
- Long life span requiring little maintenance.
- Simple and economical installation as planks are self-framing.
- Adaptable to cost effective custom fabrication.
- Can be easily formed in standard channel or custom shapes.

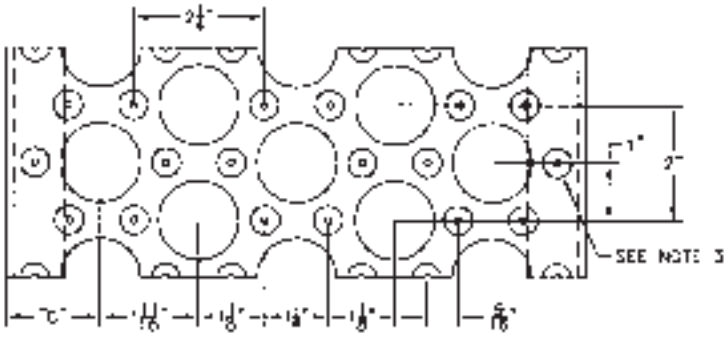
MATERIAL SPECIFICATIONS

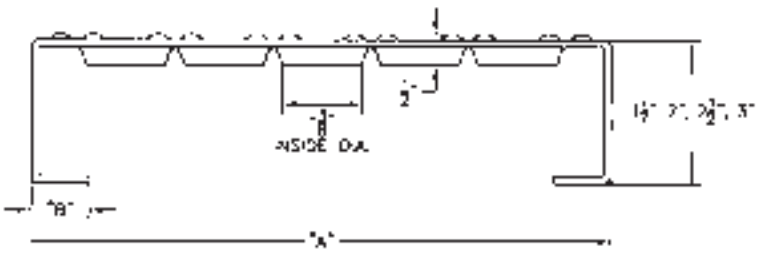
Grating shall be "Safety-Grip® channel," manufactured from **(see 'Selections' below)** and complete with a (1-1/2", 2", 3") side channel depth, by AMICO.

SELECTIONS

- ASTM-A-653, G-90 (Z-275) Pre-galvanized 13 or 11 gauge steel.
- ASTM-A-1011, HRP&O 13 or 11 gauge steel.
- 5052H32 Aluminum .125" thick (up to 18" width).
- Type 316L 2B Stainless Steel 14 gauge (up to 12" width).
- Type 304L 2B Stainless Steel 16 gauge (up to 12" width).

CHANNEL WIDTH "A"	RETURN FLANGE "B"	℄ HOLE CHANNEL EDGE "C"
**5"	7/8"	1 21/32"
7"	1"	1 13/16"
10"	7/8"	1 5/8"
**12"	1"	1 25/32"
**18"	1"	1 13/32"
24"	1 1/18"	1 7/8"
30"	1 1/18"	2 11/32"





Note:

1. Tolerances on all dimensions are ±1/8"
2. End-hole pattern shown on diagram is even. Widths indicated with ** have a staggered end-hole pattern.
3. Outside traction buttons on all widths except 18" & 24" width.
4. Standard lengths are 120" and 144".
5. Tolerance on manufactured and cut lengths is ±1/8".
6. Camber is an expected condition with sheet metal products. While ASTM allowance is generous, AMICO attempts to lessen the effects. Normal clearances should offset this phenomenon, however where tolerances warrant, contact AMICO for clarification.

LOAD & DEFLECTION TABLES

Explanation of Load Type

U = uniform load (lb/ft²)
D = corresponding deflection (in) resulting from uniform load
C = concentrated load (lb)
D = corresponding deflection (in) resulting from concentrated load

Note:

- All uniform and concentrated loads include a safety factor of 1.67.
- Spans and loads to the right of the bold line, based on loads indicated, may exceed deflections of L/120.

5 Inch Wide - 2 Hole

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	.228	U	1947	1248	868	639	490	388	315	261	220	188	163	142	126				
	2.6 lb/ft	.247	D	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.48	0.57	0.67	0.78	0.90	1.03				
			C	811	650	542	466	408	364	328	299	275	255	237	222	209				
			D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.46	0.54	0.62	0.72	0.82				
	2"	.449	U	2943	1885	1311	964	739	585	475	393	331	283	245	214	188	150	122	102	86
	2.8 lb/ft	.372	D	0.05	0.08	0.11	0.16	0.20	0.26	0.32	0.39	0.46	0.54	0.63	0.73	0.83	1.05	1.31	1.60	1.92
			C	973	973	819	703	616	549	495	451	414	383	357	334	314	281	255	233	216
			D	0.03	0.06	0.09	0.12	0.16	0.21	0.25	0.31	0.37	0.43	0.50	0.58	0.66	0.84	1.05	1.28	1.54
Alum .125"	2"	.603	U	2479	1587	1102	809	620	490	397	328	275								
	1.3 lb/ft	.449	D	0.08	0.12	0.17	0.24	0.31	0.39	0.49	0.59	0.70								
			C	1033	826	689	590	516	459	413	379	344								
			D	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.47	0.56								
																Type 5052 H32				
Stainless Steel 14 GA	2"	.377	U	3295	2109	1464	1076	824	651	527	436	366	312	269	234					
	2.5 lb/ft	.312	D	0.05	0.07	0.11	0.15	0.19	0.24	0.30	0.36	0.43	0.50	0.58	0.67					
			C	1373	1098	915	784	686	610	549	499	458	422	392	366					
			D	0.04	0.06	0.09	0.12	0.15	0.19	0.24	0.29	0.34	0.40	0.47	0.53					
																Type 316				

7 Inch Wide - 3 Hole

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	.260	U	1489	954	664	489	375	297	241	200	169	144	125	109	97				
	3 lb/ft	.277	D	0.06	0.09	0.14	0.19	0.24	0.31	0.38	0.46	0.55	0.65	0.76	0.88	1.00				
			C	793	696	581	499	437	390	352	321	295	274	255	239	225				
			D	0.04	0.08	0.11	0.15	0.19	0.25	0.31	0.37	0.44	0.52	0.61	0.70	0.80				
	2"	.509	U	2229	1428	993	731	560	444	360	298	251	215	186	162	143	114	93		
	3.3 lb/ft	.415	D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.37	0.45	0.52	0.61	0.70	0.80	1.02	1.27		
			C	793	793	793	746	654	582	525	479	440	407	379	355	334	299	271		
			D	0.02	0.05	0.08	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.82	1.02		
Steel 11 GA	1-1/2"	.330	U	1921	1231	856	630	483	382	310	257	217	185	160	140	124				
	4.2 lb/ft	.353	D	0.06	0.10	0.14	0.19	0.24	0.31	0.38	0.47	0.56	0.65	0.76	0.88	1.00				
			C	1098	897	749	643	564	502	453	413	379	351	327	306	288				
			D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.37	0.44	0.52	0.61	0.70	0.80				
	2"	.655	U	2995	1918	1333	981	752	595	483	399	336	293	253	221	195	155	126	105	89
	4.5 lb/ft	.534	D	0.05	0.08	0.12	0.16	0.21	0.27	0.34	0.41	0.49	0.56	0.62	0.71	0.81	1.03	1.28	1.56	1.87
			C	1098	1098	1098	1001	877	781	704	641	586	556	517	484	455	407	368	337	311
			D	0.03	0.05	0.09	0.13	0.17	0.22	0.27	0.33	0.39	0.44	0.49	0.57	0.65	0.82	1.02	1.25	1.50
	3"	1.726	U	3765	3602	2503	1840	1410	1115	904	748	629	537	464	404	356	282	229	190	161
	4.8 lb/ft	.966	D	0.02	0.05	0.08	0.11	0.14	0.18	0.22	0.26	0.31	0.37	0.43	0.49	0.56	0.71	0.88	1.07	1.28
			C	1098	1098	1098	1098	1098	1098	1098	1098	1098	1018	946	885	831	741	669	611	563
			D	0.01	0.02	0.03	0.05	0.07	0.11	0.14	0.19	0.25	0.29	0.34	0.39	0.45	0.57	0.70	0.85	1.02
Alum .125"	2"	.686	U	1984	1270	882	648	496	392	317	262	220								
	1.5 lb/ft	.559	D	0.08	0.13	0.19	0.25	0.33	0.42	0.52	0.63	0.75								
			C	1157	926	771	661	579	514	463	421	386								
			D	0.06	0.10	0.15	0.20	0.27	0.34	0.42	0.50	0.60								
																Type 5052 H32				
Stainless Steel 14 GA	2"	.426	U	2148	1375	955	701	537	424	344	284	239	203	175						
	2.8 lb/ft	.348	D	0.04	0.06	0.09	0.12	0.15	0.19	0.24	0.29	0.35	0.41	0.47						
			C	1253	1002	835	716	626	557	501	456	418	385	358						
			D	0.03	0.05	0.07	0.09	0.12	0.16	0.19	0.23	0.28	0.32	0.38						
																Type 316				

LOAD & DEFLECTION TABLES

10 Inch Wide - 5 Hole

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	.271	U	1128	722	501	368	282	223	181	149	125	107	92	80	71				
			D	0.06	0.09	0.13	0.17	0.23	0.29	0.35	0.42	0.50	0.57	0.65	0.75	0.87				
	3.5 lb/ft	.259	C	625	625	625	537	470	418	376	342	313	289	269	251	235				
			D	0.03	0.06	0.10	0.13	0.18	0.23	0.29	0.34	0.41	0.47	0.53	0.61	0.78				
	2"	.536	U	1500	1076	748	551	422	334	272	225	190	162	140	122	107	85	68	57	48
			D	0.04	0.07	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.49	0.57	0.66	0.75	0.95	1.16	1.41	1.69
	3.9 lb/ft	.393	C	625	625	625	625	625	625	566	516	474	439	409	380	357	317	290	259	238
			D	0.02	0.03	0.05	0.09	0.13	0.19	0.23	0.28	0.33	0.39	0.46	0.53	0.60	0.76	0.93	1.13	1.34
Steel 11 GA	1-1/2"	.343	U	1343	861	599	441	338	268	218	180	152	130	113	98	87				
			D	0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.44	0.53	0.62	0.72	0.84	0.95				
	4.5 lb/ft	.329	C	861	861	749	643	564	502	453	413	380	352	328	308	290				
			D	0.04	0.07	0.10	0.14	0.19	0.24	0.29	0.35	0.42	0.50	0.58	0.67	0.76				
	2"	.689	U	2067	1402	975	717	550	435	353	291	245	209	180	157	138	109	88	73	61
			D	0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.42	0.47	0.54	0.57	0.66	0.76	0.91	1.13	1.38	1.63
	4.8 lb/ft	.506	C	861	861	861	861	861	861	735	668	612	565	528	490	459	408	367	334	306
			D	0.02	0.04	0.07	0.12	0.17	0.20	0.29	0.35	0.39	0.43	0.48	0.53	0.58	0.74	0.91	1.09	1.30
	3"	1.844	U	2067	2067	1816	1334	1021	807	654	540	454	387	334	291	255	202	163	135	113
			D	0.02	0.04	0.07	0.11	0.13	0.17	0.21	0.26	0.31	0.36	0.42	0.48	0.54	0.70	0.84	1.03	1.22
	5.1 lb/ft	.938	C	861	861	861	861	861	861	861	861	861	861	861	861	851	757	681	619	567
			D	0.01	0.01	0.02	0.04	0.06	0.08	0.11	0.14	0.19	0.24	0.30	0.36	0.44	0.55	0.68	0.83	0.98
Alum .125"	2"	.722	U	1278	871	605	445	341	269	218	181	152				Type 5052 H32				
			D	0.08	0.14	0.20	0.28	0.36	0.46	0.57	0.68	0.82								
	1.8 lb/ft	.530	C	533	533	533	533	533	505	455	414	380								
			D	0.03	0.07	0.11	0.18	0.27	0.37	0.45	0.55	0.65								
Stainless Steel 14 GA	2"	.401	U	946	762	529	388	298	235	190	157	133				Type 316				
			D	0.04	0.08	0.11	0.15	0.20	0.25	0.31	0.37	0.45								
	3.2 lb/ft	.287	C	394	394	394	394	394	394	394	360	331								
			D	0.02	0.03	0.05	0.09	0.13	0.17	0.21	0.29	0.37								

12 Inch Wide - 6 Hole

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	.350	U	991	635	442	326	250	198	161	134	113	97	84	74	65				
			D	0.05	0.08	0.12	0.17	0.22	0.28	0.34	0.42	0.50	0.58	0.68	0.78	0.89				
	4.3 lb/ft	.291	C	866	794	663	570	500	446	403	368	338	315	294	276	260				
			D	0.04	0.07	0.10	0.13	0.18	0.22	0.28	0.34	0.40	0.46	0.54	0.62	0.71				
	2"	.630	U	1457	934	649	478	367	290	236	195	165	141	122	107	94	75	61		
			D	0.04	0.07	0.10	0.13	0.17	0.22	0.27	0.33	0.40	0.47	0.54	0.63	0.71	0.91	1.14		
	4.6 lb/ft	.437	C	866	866	866	836	733	653	590	538	494	458	427	400	376	338	307		
			D	0.02	0.04	0.07	0.11	0.14	0.18	0.22	0.27	0.32	0.37	0.43	0.50	0.57	0.73	0.91		
Steel 11 GA	1-1/2"	.406	U	1118	717	499	367	282	223	182	151	127	109	94	82	73				
			D	0.06	0.09	0.13	0.17	0.22	0.28	0.35	0.43	0.51	0.60	0.70	0.81	0.92				
	5.3 lb/ft	.373	C	1118	896	748	643	564	503	454	414	381	353	329	309	291				
			D	0.04	0.07	0.10	0.14	0.18	0.23	0.28	0.34	0.41	0.48	0.56	0.65	0.74				
	2"	.812	U	1875	1201	835	614	471	373	303	251	211	180	156	136	120	96	78	65	55
			D	0.06	0.09	0.14	0.18	0.24	0.31	0.38	0.46	0.55	0.65	0.75	0.86	0.99	1.26	1.57	1.91	2.30
	5.5 lb/ft	.570	C	1362	1362	1253	1075	942	839	757	690	634	586	546	511	481	431	391	358	331
			D	0.03	0.07	0.11	0.15	0.19	0.25	0.30	0.37	0.44	0.52	0.60	0.69	0.79	1.01	1.25	1.53	1.84
	3"	2.158	U	2725	2370	1647	1211	928	734	595	492	414	354	305	266	235	186	151	126	106
			D	0.03	0.06	0.08	0.11	0.14	0.18	0.23	0.27	0.33	0.38	0.45	0.51	0.59	0.74	0.92	1.12	1.34
	6.2 lb/ft	1.045	C	1362	1362	1362	1362	1362	1362	1362	1354	1243	1149	1069	999	939	838	757	692	632
			D	0.01	0.02	0.04	0.06	0.09	0.12	0.17	0.22	0.26	0.31	0.36	0.41	0.47	0.60	0.74	0.90	1.07
Alum .125"	2"	.851	U	1245	797	554	407	312	247	200	165	139				Type 5052 H32				
			D	0.09	0.15	0.21	0.29	0.38	0.48	0.59	0.72	0.86								
	2.1 lb/ft	.597	C	839	839	831	713	624	555	500	455	417								
			D	0.05	0.10	0.17	0.23	0.30	0.38	0.48	0.58	0.69								
Stainless Steel 14 GA	2"	.427	U	871	600	417	308	236	187	152	126	106				Type 316				
			D	0.04	0.07	0.09	0.13	0.17	0.22	0.27	0.33	0.39								
	3.8 lb/ft	.313	C	435	435	435	435	435	435	434	394	361								
			D	0.02	0.03	0.05	0.09	0.13	0.19	0.25	0.30	0.36								

LOAD & DEFLECTION TABLES

18 Inch Wide - 10 Hole

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	.345	U	641	441	307	226	174	138	112	93	79	68	59	51	46				
	5.7 lb/ft	.292	D	0.05	0.10	0.14	0.19	0.25	0.31	0.39	0.47	0.56	0.67	0.78	0.90	1.03				
			C	480	480	480	480	480	466	421	385	355	327	304	284	266				
			D	0.02	0.04	0.08	0.12	0.18	0.25	0.31	0.38	0.45	0.53	0.61	0.71	0.80				
	2"	.677	U	641	641	460	339	260	206	168	139	117	100	87	76	67	53	43		
	6.0 lb/ft	.440	D	0.03	0.07	0.11	0.15	0.19	0.24	0.30	0.36	0.43	0.51	0.60	0.69	0.79	1.01	1.26		
			C	480	480	480	480	480	480	480	480	480	480	456	426	399	355	319		
			D	0.01	0.02	0.04	0.06	0.09	0.13	0.18	0.24	0.32	0.40	0.48	0.55	0.62	0.78	1.06		
Steel 11 GA	1-1/2"	.444	U	752	482	336	247	190	151	123	102	86	74	64	56	50				
	6.8 lb/ft	.381	D	0.06	0.09	0.13	0.17	0.23	0.29	0.36	0.44	0.52	0.62	0.72	0.83	0.95				
			C	1116	904	755	649	570	509	460	420	387	359	335	315	297				
			D	0.04	0.07	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.49	0.58	0.67	0.76				
	2"	.894	U	1207	773	538	396	304	241	195	162	137	117	101	88	78	62	51		
	7.1 lb/ft	.583	D	0.05	0.08	0.12	0.16	0.21	0.26	0.33	0.40	0.47	0.56	0.65	0.75	0.85	1.09	1.36		
			C	1116	1116	1116	1039	911	812	733	668	615	570	531	498	469	421	383		
			D	0.03	0.05	0.09	0.13	0.17	0.21	0.26	0.32	0.38	0.45	0.52	0.60	0.68	0.87	1.09		
	3"	2.400	U	1488	1488	1153	847	649	512	415	343	288	246	212	184	162	128	104	86	72
	7.9 lb/ft	1.070	D	0.02	0.04	0.07	0.10	0.13	0.15	0.19	0.23	0.27	0.32	0.37	0.43	0.48	0.61	0.76	0.92	1.08
			C	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1038	973	865	778	708	649
			D	0.01	0.01	0.20	0.04	0.06	0.08	0.11	0.14	0.19	0.24	0.30	0.34	0.39	0.49	0.60	0.73	0.87
Alum .125"	2"	.936	U	792	581	360	265	203	160	130	108	91	77			Type 5052 H32				
	2.8 lb/ft	.612	D	0.08	0.13	0.19	0.25	0.33	0.42	0.52	0.63	0.75	0.88							
			C	594	594	594	594	594	630	567	515	472	436							
			D	0.03	0.06	0.11	0.17	0.26	0.38	0.48	0.58	0.70	0.81							

24 Inch Wide - 13 Hole

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 11 GA	2"	1.017	U	524	524	467	344	264	209	170	141	119	102	88	77	68	54	44		
	8.9 lb/ft	.634	D	0.03	0.07	0.13	0.17	0.23	0.29	0.36	0.43	0.52	0.61	0.71	0.82	0.94	1.20	1.50		
			C	524	524	524	524	524	524	524	524	524	524	524	524	524	489	445		
			D	0.01	0.02	0.04	0.06	0.09	0.13	0.18	0.24	0.31	0.39	0.48	0.60	0.72	0.96	1.20		
	3"	2.694	U	524	524	524	524	473	374	304	252	212	181	156	137	120	96	78	65	55
	9.8 lb/ft	1.149	D	0.01	0.02	0.04	0.07	0.11	0.14	0.18	0.22	0.26	0.30	0.35	0.40	0.46	0.59	0.73	0.89	1.07
			C	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524
			D	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.11	0.13	0.17	0.20	0.29	0.39	0.52	0.68

30 Inch Wide - 16 Hole

PRODUCT DETAILS

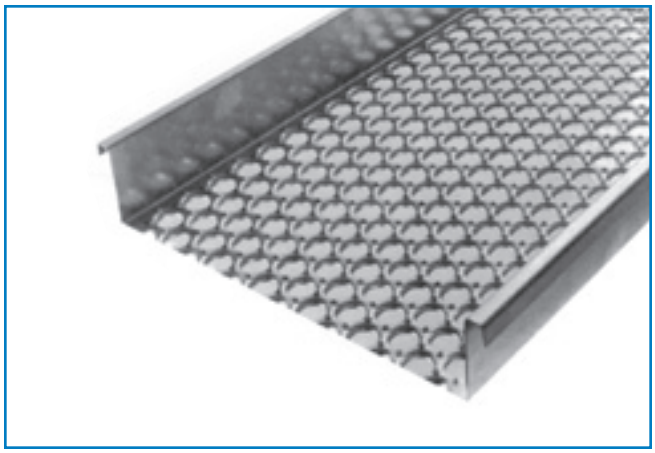
Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 11 GA	2"	1.985	U	275	275	275	251	231	183	148	122	103								
	11.8 lb/ft	.777	D	0.02	0.04	0.09	0.17	0.24	0.31	0.38	0.47	0.56								
			C	343	343	343	343	343	343	343	343	343								
			D	0.01	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.20								
	3"	2.728	U	275	275	275	275	275	251	219	181	152	130	112	97	86				
	12.7 lb/ft	1.152	D	0.01	0.01	0.03	0.06	0.09	0.13	0.18	0.22	0.26	0.32	0.36	0.42	0.45				
			C	343	343	343	343	343	343	343	343	343	343	343	343	343				
			D	0.00	0.00	0.01	0.01	0.02	0.02	0.04	0.05	0.06	0.08	0.10	0.12	0.15				
	4"	5.402	U	275	275	275	275	275	275	275	275	240	205	177	155	136	108	88	73	62
	13.5 lb/ft	1.769	D	0.00	0.01	0..01	0.03	0.04	0.07	0.11	0.16	0.20	0.23	0.27	0.31	0.36	0.45	0.56	0.68	0.82
			C	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343
			D	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.10	0.14	0.19	0.24

Note: Strut deflection may become a limiting factor on 18" and 24" widths resulting in lower load values as indicated in tables.

SAFETY-GRIP® WALKWAY

PRODUCT DESCRIPTION

Safety-Grip® walkway is a one-piece metal plank grating manufactured by a cold forming process in the shape of an inverted channel. The web of the channel is the walking surface and has large debossed holes, surrounded by smaller embossed traction buttons. The extended flanges support the load and provide a built in kickplate (toeboard).



FEATURES & BENEFITS

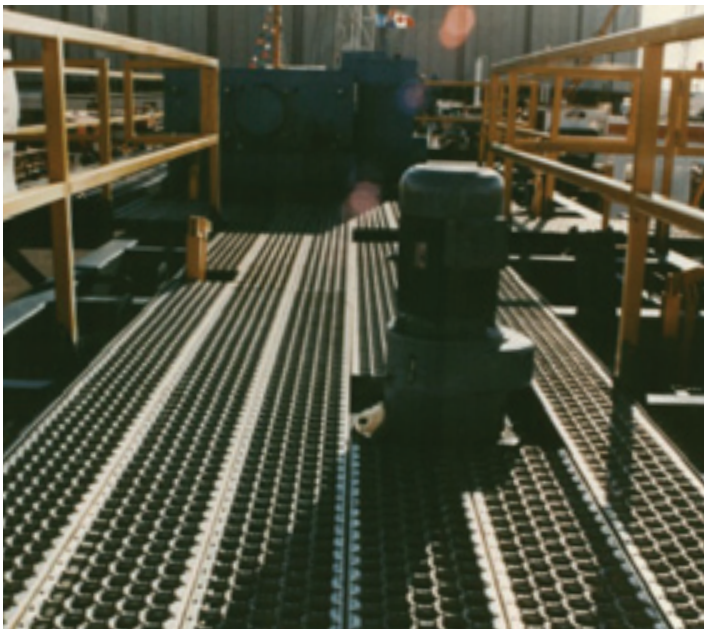
- Embossed traction buttons provide superior slip resistance in all directions and in all weather conditions.
- Large debossed holes provide maximum drainage of debris and allow up to 50% free air opening depending on channel width.
- Self-cleaning due to resilience of walking surface.
- One-piece metal construction complete with a full 5” toe-board height on each side of the walking surface.
- Lightweight design provides high strength to weight ratio.
- Long life span requiring little maintenance.
- Simple and economical installation as walkways are self-framing.
- Adaptable to cost effective custom fabrication.

MATERIAL SPECIFICATIONS

Grating shall be “Safety-Grip® walkway,” manufactured from **(see ‘Selections’ below)** and complete with an integral 5” toe-board, by AMICO.

SELECTIONS

- ASTM-A-653, G-90 (Z-275) pre-galvanized 13 or 11 gauge steel.
- ASTM-A-1011, HRP&O 13 or 11 gauge steel.



SAFETY-GRIP® WALKWAY

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
24" Wide 13 GA	5"	6.610	U	355	355	355	355	355	355	355	355	355	355	346	301	245	209	169	140	118
			D	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.10	0.15	0.20	0.26	0.30	0.35	0.44	0.53	0.65	0.78
	8.7 lb/ft	2.078	C	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355
			D	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.05	0.07	0.09	0.12	0.16
24" Wide 11 GA	5"	9.968	U	657	657	657	657	657	657	657	657	619	528	455	396	348	275	223	104	155
			D	0.00	0.01	0.01	0.02	0.03	0.05	0.08	0.12	0.16	0.19	0.22	0.26	0.29	0.37	0.45	0.54	0.65
	11.8 lb/ft	2.880	C	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657
			D	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.08	0.11	0.14	0.18
30" Wide 11 GA	5"	10.090	U	384	384	384	384	384	384	384	384	384	355	306	267	234	185	150	124	104
			D	0.00	0.01	0.01	0.02	0.04	0.06	0.09	0.16	0.20	0.23	0.26	0.30	0.34	0.45	0.55	0.66	0.78
	13.6 lb/ft	2.889	C	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480
			D	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.11	0.15	0.19
36" Wide 11 GA	5"	N/A	U	185	185	185	185	185	185	185	185	185	185	185	185	185	158	128	106	89
			D	0.00	0.00	0.01	0.01	0.02	0.04	0.06	0.09	0.12	0.17	0.22	0.29	0.38	0.52	0.65	0.78	0.94
	15.9 lb/ft	N/A	C	273	273	273	273	273	273	273	273	273	273	273	273	273	273	273	273	273
			D	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.07	0.10	0.13

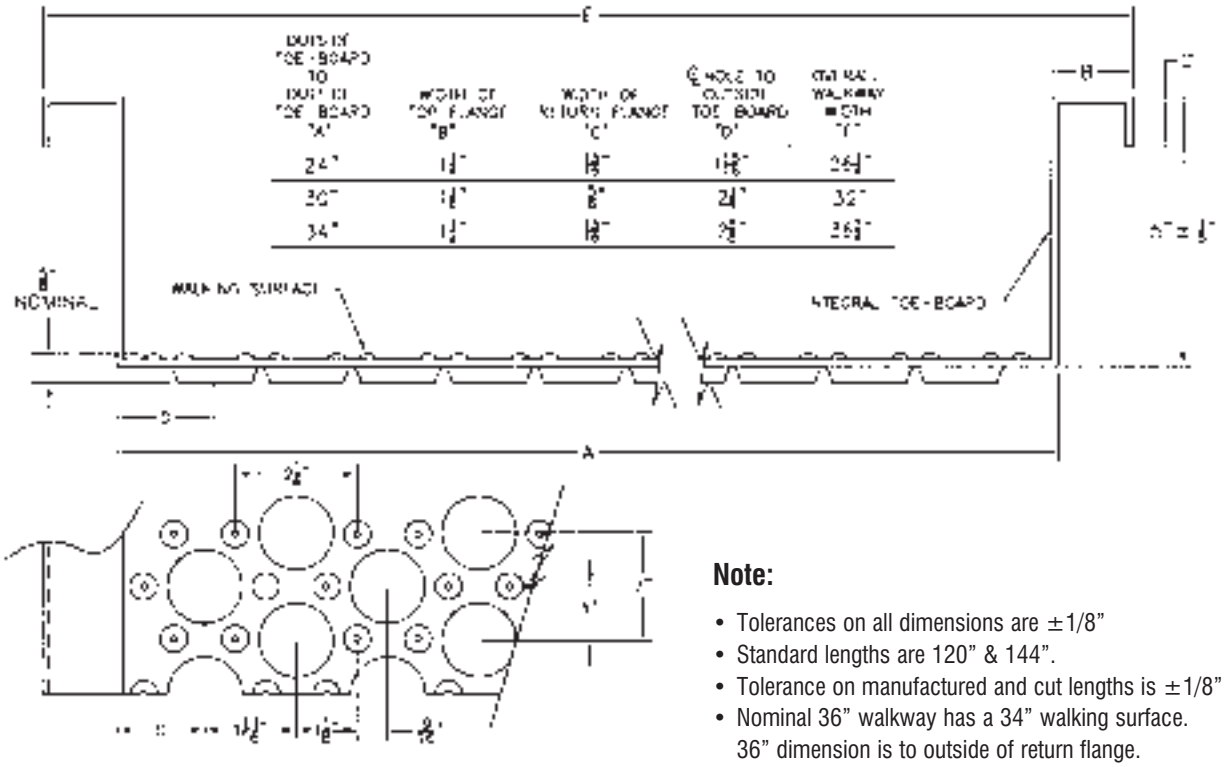
Explanation of Load Type

U = uniform load (lb/ft²)
D = corresponding deflection (in) resulting from uniform load
C = concentrated load (lb)
D = corresponding deflection (in) resulting from concentrated load

Note:

- All uniform and concentrated loads include a safety factor of 1.67.
- Area in bold outline–contact AMICO for recommendations.
- Strut deflection may become a limiting factor resulting in lower load values as indicated in table.

TECHNICAL DETAILS



Note:

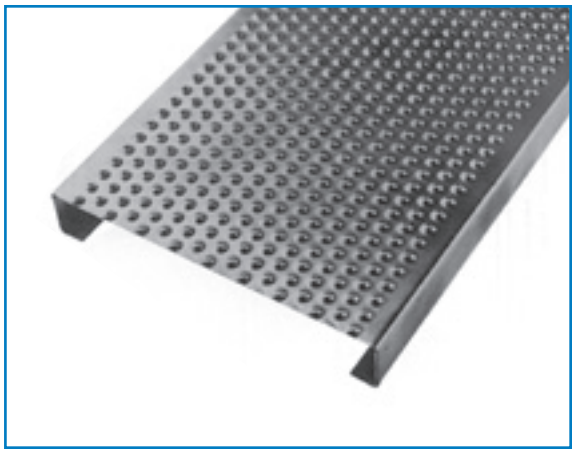
- Tolerances on all dimensions are ±1/8”
- Standard lengths are 120” & 144”.
- Tolerance on manufactured and cut lengths is ±1/8”.
- Nominal 36” walkway has a 34” walking surface. 36” dimension is to outside of return flange.

Camber is an expected condition with sheet metal products. While ASTM allowance is generous, AMICO attempts to lessen the effects. Normal clearances should offset this phenomenon, however where tolerances warrant, contact AMICO for clarification.

SAFETY-TREAD® CHANNEL

PRODUCT DESCRIPTION

Safety-Tread® channel is a one-piece plank grating manufactured by a cold forming process in the shape of a channel. The web of the channel is the walking surface which is covered with small perforated dimples.



FEATURES & BENEFITS

- Perforated dimples provide superior slip resistance in all directions. Quantity of dimples under foot provides exceptional adhesive friction.
- One-piece metal construction.
- Lightweight design provides high strength to weight ratio.
- Long effective life span requiring little maintenance.
- Can be easily formed in standard channel or custom shapes.
- Simple and economical installation as planks are self-framing.
- Adaptable to cost effective custom fabrication.
- Low projections and closed area provide an acceptable walking surface for industrial as well as institutional applications (i.e., women in heels can walk comfortably and safely).
- Available in four dimpled patterns (see opposite page for specifications).

MATERIAL SPECIFICATIONS

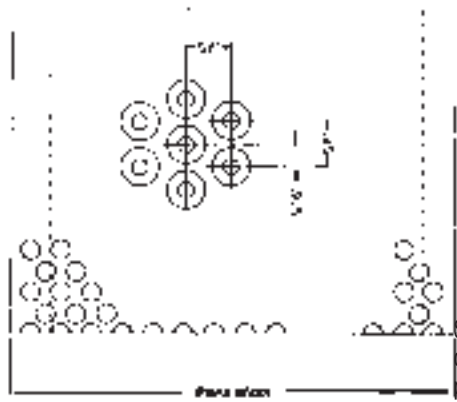
Standard Flooring Specification
Grating/Flooring to be Safety-Tread® channel (full, square, star, “V”) pattern by AMICO manufactured from **(select one)**:

- ASTM-A-1011, HRP&O, 13 or 11 gauge steel.
- ASTM-A-653, G-90 (Z-275) Pre-galvanized 13 or 11 gauge steel.
- 5052-H32 Aluminum, .125” thick
- Type 316L 2B Stainless Steel 14 gauge. (“V” pattern only)
- Type 304L Stainless Steel 16 gauge. (“V” pattern only)

Drainage Flooring Specification
Grating/Flooring to be Safety-Tread® drainage channel (square, star) pattern by AMICO manufactured from (select one):

- ASTM-A-1011, HRP&O, 13 or 11 gauge steel.
- ASTM-A-653, G-90 (Z-275) Pregalvanized 13 gauge steel.
- 5052-H32 Aluminum, .125” thick.

Safety Tread® channel and Safety-Tread® drainage channel are manufactured in nominal 10’ and 12’ lengths. Other combinations or gauges, channel depths, and widths are available by special request
(see note on opposite page re: gauges).



See next page for optional dimple patterns.

Note:

1. Tolerances on all dimensions are ±1/8”
2. Camber is an expected condition with sheet metal products. While ASTM allowance is generous, AMICO attempts to lessen the effects. Normal clearances should offset this phenomenon, however where tolerances warrant, contact AMICO for clarification.

SAFETY-TREAD® CHANNEL

Optional Dimpled Patterns

TECHNICAL DETAILS

LOAD & DEFLECTION TABLES

Explanation of Load Type

U = uniform load (lb/ft²)
D = corresponding deflection (in) resulting from uniform load
C = concentrated load (lb)
D = corresponding deflection (in) resulting from concentrated load

Note:

- All uniform and concentrated loads include a safety factor of 1.67.
- Shaded areas, based on loads indicated, may exceed deflections of L/120.

10 Inch Wide

PRODUCT DETAILS

Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	.272	U	1070	773	476	370	267	219	171	145	119	103	87	77	67				
			D	0.05	0.09	0.12	0.17	0.21	0.27	0.33	0.41	0.48	0.56	0.65	0.75	0.85				
	4.24 lb/ft	.267	C	625	610	594	519	445	400	356	326	297	275	254	238	223				
			D	0.03	0.06	0.10	0.14	0.18	0.22	0.27	0.33	0.39	0.45	0.52	0.60	0.69				
	2"	.536	U	1500	1108	716	560	404	332	261	221	182	158	134	118	102	80	65		
			D	0.04	0.08	0.10	0.14	0.17	0.22	0.27	0.33	0.39	0.47	0.54	0.62	0.70	0.88	1.08		
	4.84 lb/ft	.404	C	625	625	625	625	625	582	539	494	449	418	387	359	332	300	274		
			D	0.02	0.03	0.05	0.09	0.13	0.18	0.22	0.27	0.32	0.38	0.44	0.50	0.56	0.72	0.91		
Steel 11 GA	1-1/2"	.343	U	1343	971	599	468	338	278	218	185	152	132	113	100	87				
			D	0.06	0.10	0.13	0.19	0.23	0.30	0.37	0.45	0.53	0.63	0.73	0.85	0.96				
	5.54 lb/ft	.369	C	861	805	749	656	564	508	453	416	380	354	328	309	290				
			D	0.04	0.08	0.11	0.15	0.19	0.24	0.29	0.36	0.43	0.51	0.59	0.68	0.77				
	2"	.689	U	1881	1366	851	676	501	410	320	271	223	194	164	145	126	99	80		
			D	0.04	0.07	0.10	0.15	0.19	0.25	0.30	0.37	0.43	0.51	0.58	0.67	0.76	0.96	1.18		
	5.95 lb/ft	.511	C	861	861	861	861	861	757	681	624	568	527	487	456	426	378	340		
			D	0.02	0.04	0.06	0.11	0.16	0.20	0.24	0.29	0.35	0.41	0.48	0.55	0.62	0.78	0.97		

12 Inch Wide

PRODUCT DETAILS

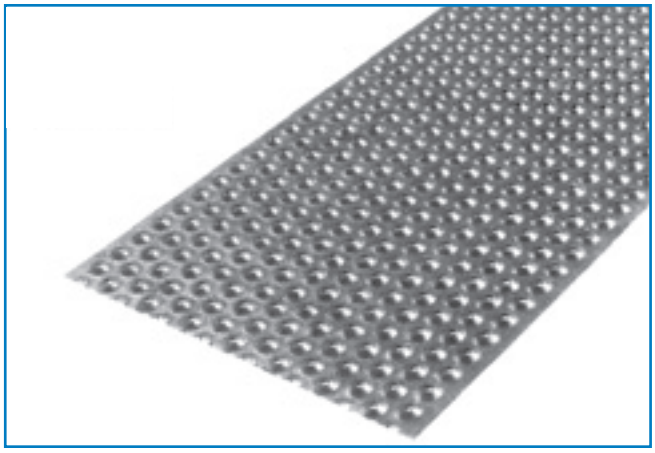
Type	Depth / Weight	Ix IN.⁴ / Sx IN.³		CLEAR SPAN 24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	.320	U	991	716	442	346	250	205	161	137	113	97	82	72	63				
			D	0.05	0.09	0.12	0.17	0.21	0.27	0.33	0.41	0.48	0.57	0.65	0.75	0.85				
	4.83 lb/ft	.302	C	866	764	663	581	500	451	403	370	338	312	287	269	251				
			D	0.04	0.07	0.10	0.14	0.18	0.23	0.28	0.34	0.40	0.47	0.55	0.63	0.72				
	2"	.630	U	1457	1053	649	508	367	301	236	200	165	143	122	108	94	75	60		
			D	0.04	0.08	0.10	0.14	0.17	0.23	0.27	0.33	0.39	0.47	0.54	0.63	0.71	0.90	1.04		
	5.13 lb/ft	.453	C	866	866	866	800	733	661	590	542	494	460	427	401	376	335	300		
			D	0.02	0.04	0.07	0.11	0.14	0.18	0.22	0.27	0.32	0.38	0.44	0.51	0.58	0.73	0.90		
Steel 11 GA	1-1/2"	.406	U	1118	808	499	390	282	232	182	154	127	110	94	83	72				
			D	0.06	0.10	0.12	0.18	0.22	0.29	0.35	0.43	0.50	0.60	0.69	0.81	0.93				
	6.33 lb/ft	.376	C	1118	933	748	656	564	509	454	418	381	355	329	310	291				
			D	0.05	0.08	0.11	0.15	0.19	0.25	0.30	0.37	0.44	0.52	0.60	0.69	0.79				
	2"	.792	U	1875	1201	835	614	471	373	303	251	211	180	156	136	120	96	78		
			D	0.06	0.09	0.13	0.18	0.24	0.31	0.39	0.46	0.55	0.64	0.75	0.86	0.99	1.27	1.57		
	6.79 lb/ft	.571	C	1362	1362	1253	1075	942	839	752	90	634	586	546	511	481	431	391		
			D	0.03	0.07	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.53	0.62	0.71	0.82	1.04	1.297		

Note: Due to the low profile of the walking surface, 11 gauge material is recommended to help reduce strut deflection.

SAFETY-TREAD® FLOORING

PRODUCT DESCRIPTION

Safety-Tread® is a metal flooring product which is covered with small perforated dimples manufactured by a cold forming process.

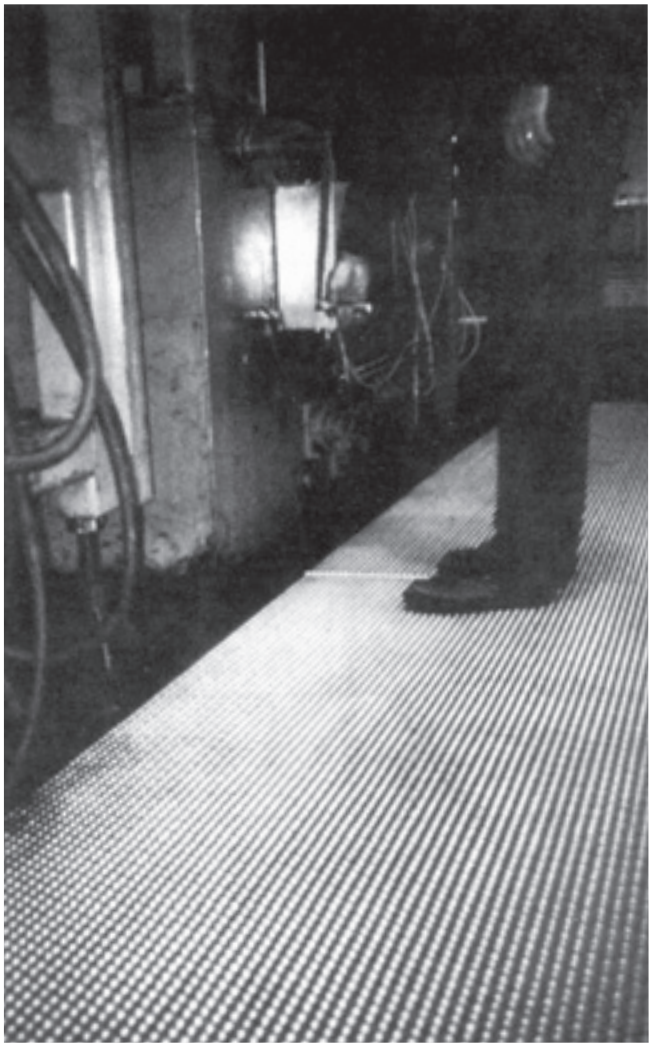


OPTIONAL FEATURE:

Safety-Tread® flooring is available in two drainage patterns which incorporate embossed holes (staggered) between raised dimples.

FEATURES & BENEFITS

- Perforated dimples provide superior slip resistance in all directions and in all weather conditions. The quantity of dimples under foot provides exceptional adhesive friction.
- Long life span requiring little maintenance.
- Can be easily formed into custom shapes.
- Adaptable to wide range of applications.
- Easily adaptable to cost effective, custom fabrication.
- Low projections and closed area provide an acceptable walking surface for industrial as well as institutional and commercial application (i.e., women in heels can walk comfortably and safely).
- Available in four dimpled patterns
- Optional drainage flooring features smaller unembossed holes (location and size variable with dimple pattern) providing drainage for liquid which may pool on walking surface in wet environments.



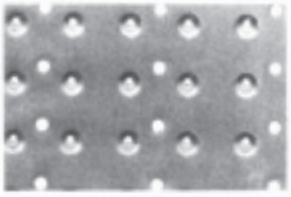
MATERIAL SPECIFICATIONS

Standard Flooring Specification
Grating shall be “Safety-Tread® flooring,” (full, square, star, “V”) pattern by AMICO manufactured from **(select one)**:

- ASTM-A-1011, HRP&O, 16, 13 or 11 gauge steel.
- ASTM-A-653, G-90 (Z-275) Pre-galvanized 13 gauge steel.
- 5052H32 Aluminum, .125” thick.
- Type 316L, Stainless Steel 14 gauge (“V” pattern only)
- Type 304L, Stainless Steel 16 gauge (“V” pattern only)

Drainage Flooring Specification
Flooring shall be Safety-Tread® drainage flooring (square, star) pattern by AMICO manufactured from **(select one)**:

- ASTM-A-1011, HRP&O, 11 gauge steel.
- ASTM-A-653, G-90 (Z-275) Pre-galvanized 13 gauge square pattern or 11 gauge star pattern.
- 5052H32 Aluminum, .125” thick.

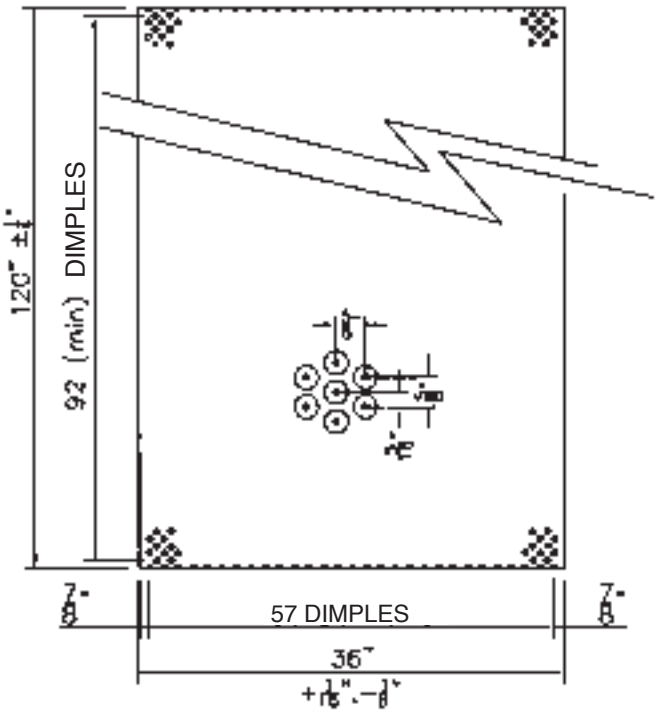


SQUARE DRAINAGE

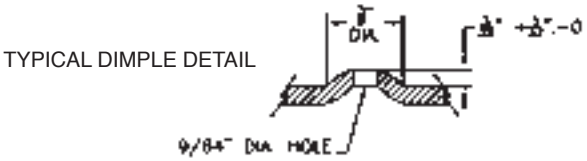
STAR DRAINAGE

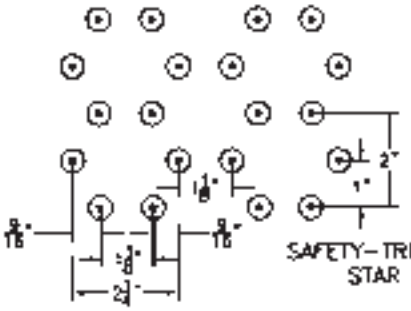
SAFETY-TREAD® FLOORING

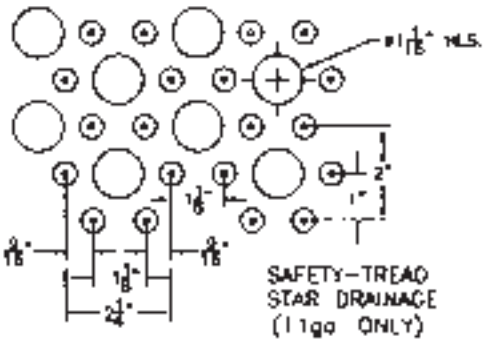
TECHNICAL DETAILS

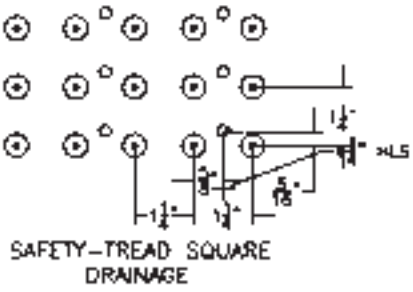


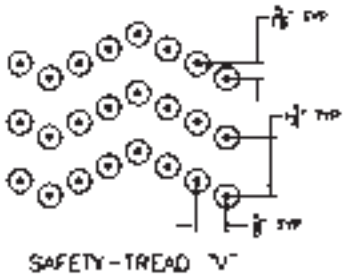
SAFETY-TREAD® FULL PATTERN (STANDARD)











Safety-Tread® Flooring

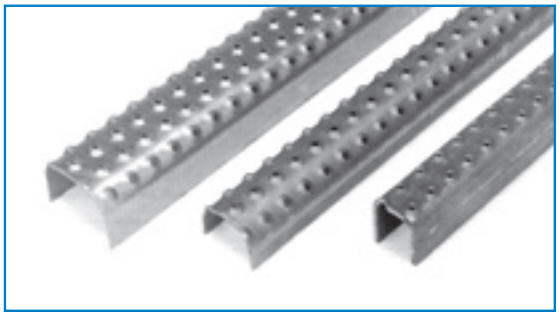
Gauge	Material	Wt/Sq Ft
11 GA	HRP&O	5.0 lb
13 GA	HRP&O	3.8 lb
16 GA	HRP&O	2.5 lb
13 GA	Galvanized	1.7 lb
.125"	Aluminum	1.6 lb
14 GA	316 L	3.28 lb
16 GA	304 L	2.4 lb

Drainage Flooring

Gauge	Material	Wt/Sq Ft
11 GA	HRP&O	4.7 lb
13 GA	HRP&O	3.5 lb
16 GA	HRP&O	2.3 lb
.125"	Aluminum	1.6 lb

SAFETY-TREAD® LADDER RUNGS

Safety-Tread® ladder rungs are small channel shaped sections; the web of the channel being the walking surface which is covered with small perforated dimples, produced by a cold forming process.



FEATURES & BENEFITS

- Perforated dimples provide superior slip resistance in all directions and in all weather conditions. The quantity of dimples under foot provides exceptional adhesive friction.
- Cross sectional design provides significant load carrying capacity on spans up to 24".
- Three widths of rung to choose from.
- Leading row of dimples projected on the edge of the rung provides slip resistance to the foot approaching at an angle to the walking surface.
- Long life span requiring little maintenance.
- Adaptable to a wide range of applications.
- Easily adaptable to cost effective, custom fabrication.
- Ideal for retrofit applications as rungs fit over slippery pipes, bars, etc. on existing ladders.

MATERIAL SPECIFICATIONS

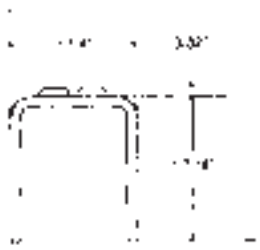
Ladder rungs shall be "Safety-Tread® ladder rungs," manufactured from **(see 'Selections' below)** by AMICO.

SELECTIONS

- ASTM-A-1011, 13 or 11 gauge, HRP&O steel.
- ASTM-A-653, 13 or 11 gauge, G-90 (Z-275) Pre-galvanized steel.
- 5052H32 .125" thick, Aluminum.
- Type 316L, 14 gauge Stainless Steel.

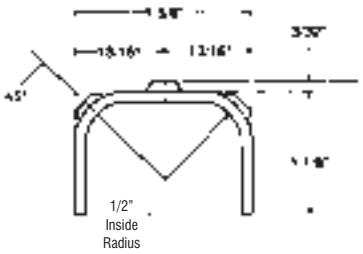
1¼" wide (2 hole)

Type	Weight lb/ft	Load/ Type	CLEAR SPAN (in) 16"	18"	20"	24"	30"
Carbon Steel 11ga	1.2	C	375	333	300	250	200
		D	0.02	0.02	0.03	0.04	0.07
Stainless Steel 14ga	1.0	C	375	333	300	250	200
		D	0.03	0.04	0.05	0.07	0.11
Aluminum 0.125in	0.52	C	313	278	250	208	
		D	0.04	0.05	0.06	0.08	



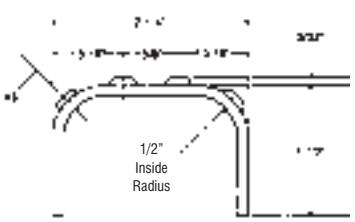
1⅝" wide (3 hole)

Type	Weight lb/ft	Load/ Type	CLEAR SPAN (in) 16"	18"	20"	24"	30"
Carbon Steel 13ga	1.3	C	313	278	250	209	
		D	0.02	0.03	0.04	0.06	
Stainless Steel 14ga	1.1	C	250	222	200		
		D	0.03	0.04	0.04		
Aluminum 0.125in	0.5	C	250	222	200		
		D	0.04	0.05	0.06		



2¼" wide (4 hole)

Type	Weight lb/ft	Load/ Type	CLEAR SPAN (in) 16"	18"	20"	24"	30"
Carbon Steel 13ga	1.5	C	375	333	300	250	200
		D	0.02	0.02	0.03	0.04	0.07
Stainless Steel 14ga	1.2	C	468	416	375	312	250
		D	0.03	0.04	0.05	0.07	0.10
Aluminum 0.125in	0.5	C	375	333	300	250	200
		D	0.03	0.04	0.05	0.07	0.11



NOTE:

C = Allowable concentrated load (lbs)

D = Corresponding deflection (in) resulting from C.

All concentrated loads include a safety factor of 4.0, based on ultimate strength.

Ladder rungs showing concentrated load "C" at 200 lbs or above comply with OSHA standard 29CFR 1910.27(a)(1)(i) under the title "Walking-Working Surfaces—Fixed Ladders."

Ladder rungs showing concentrated load "C" at 250 lbs or above comply with OSHA standard 29CFR 1917.120(b)(1) under the title "Terminal Facilities—Fixed Ladders."

Tolerance of all dimensions ±1/8".

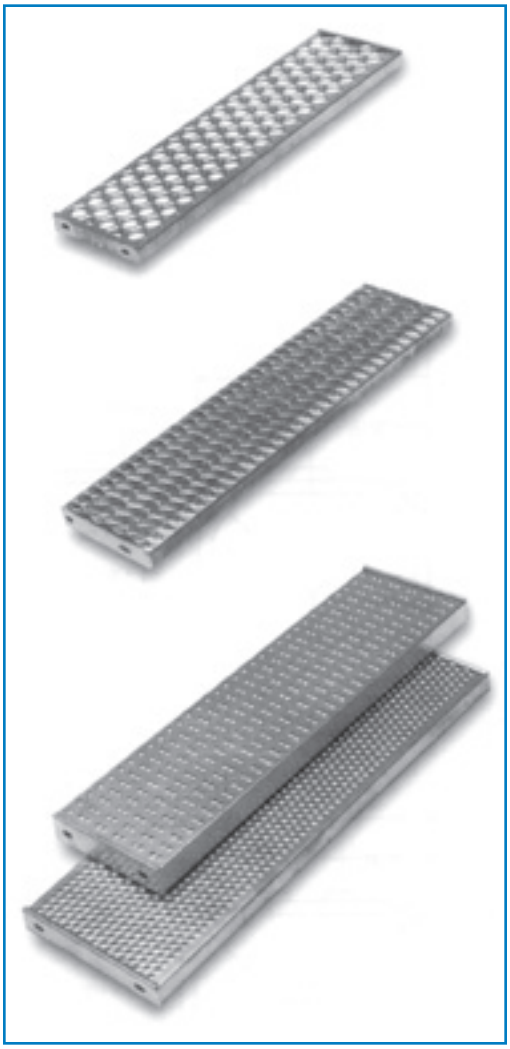
Standard lengths are 5ft.

STAIR TREADS

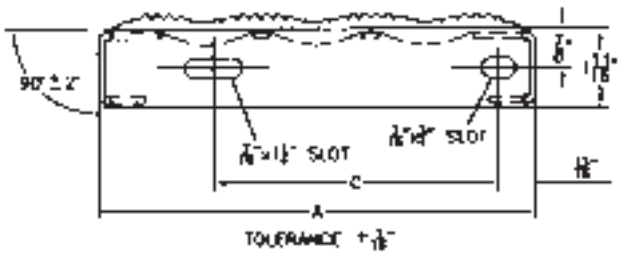
PRODUCT DESCRIPTION

Stair treads are fabricated from AMICO standard Safety-Grip®, Diamond-Grip® and Safety-Tread® channel planks (see product specification sheets for technical details). All treads are complete with end plates welded to each end for easy connection to stringers or are available with open ends.

Treads are available from stock in sizes indicated below or can be custom fabricated from any channel product and in any material including G90 galvanized, HRP&O, aluminum and stainless steel.



Diamond-Grip® Treads



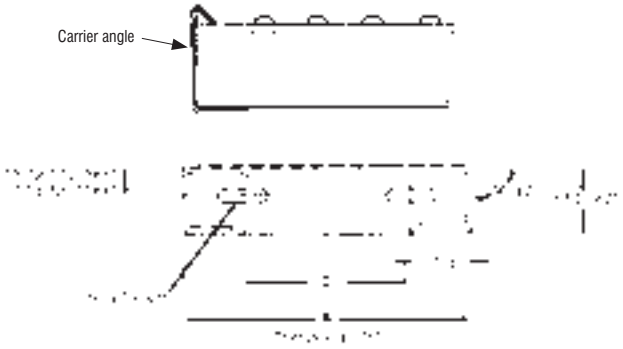
"A" TREAD DEPTH (CHANNEL WIDTH)	CARRIER PLATE WIDTH	DIMENSION "C"
4 3/4"	4 1/2"	2 1/8"
7"	6 3/4"	3 1/2"
9 1/2"	9 1/4"	6 1/16"
11 3/4"	11 1/2"	8 3/8"

For use with 1 1/2" or 2" heights

Standard Stock Sizes of Diamond-Grip® Stair Treads:

- D415424E 24"(W) x 9 1/2"(D) x 1 1/2" (H)
- D415430E 30"(W) x 9 1/2"(D) x 1 1/2" (H)
- D415436E 36"(W) x 9 1/2"(D) x 1 1/2" (H)

Safety-Grip® / Safety-Tread® Treads



"A" TREAD DEPTH (CHANNEL WIDTH)	CARRIER PLATE WIDTH	DIMENSION "C"
5"	4 7/8"	2 1/8"
7"	6 7/8"	4 1/8"
10"	9 7/8"	7 1/8"
12"	11 7/8"	9 1/8"
18"	17 7/8"	15 1/8"

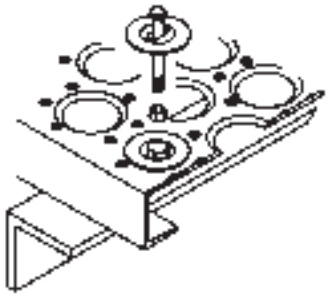
For use with 1 1/2" or 2" heights

Standard Stock Sizes of Safety-Grip® Stair Treads:

- S515324E 24"(W) x 10"(D) x 1 1/2" (H)
- S515330E 30"(W) x 10"(D) x 1 1/2" (H)
- S515336E 36"(W) x 10"(D) x 1 1/2" (H)

INSTALLATION ACCESSORIES

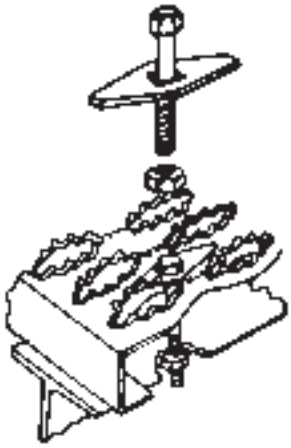
SAFETY-GRIP® BOLT SEATS



Safety-Grip® planks can be mechanically fastened to a structural support by using specially designed Bolt Seats which seat within the large debossed holes, below the walking surface. Bolt Seats have an oblong hole to accommodate a 3/8" bolt, and are available in:

- 11 ga., G90 Galvanized (H12264)
- .125" Aluminum (H12264A)
- 316L Stainless (H12264S)

DIAMOND-GRIP® BOLT SEATS



Diamond-Grip® planks can be mechanically fastened to a structural support by using specially designed Bolt Seats which seat in between the raised diamonds below the walking surface. Bolt Seats have a round hole to accommodate a 3/8" bolt, and are available in:

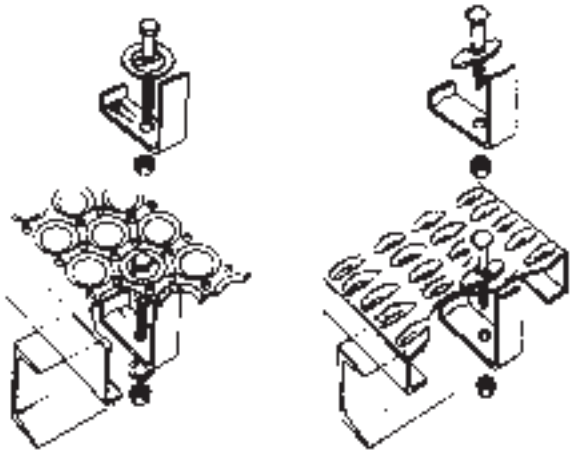
- 12 ga., G90 Galvanized (H12262)
- .125" Aluminum (H12262A)
- Stainless (H12262S) by special request only.
- Optional square hole in bolt seat to accommodate 5/16" carriage bolt available by special request (H12262SQ)

MID-SUPPORT CLIP ASSEMBLY

Between structural supports it may be necessary to tie planks together to minimize relative deflection. This is accomplished by using a Mid-Support Clip which draws the plank's side channels together by applying pressure between the bolts and the clip edge (clip no. MSCL).

"J" CLIP ASSEMBLIES

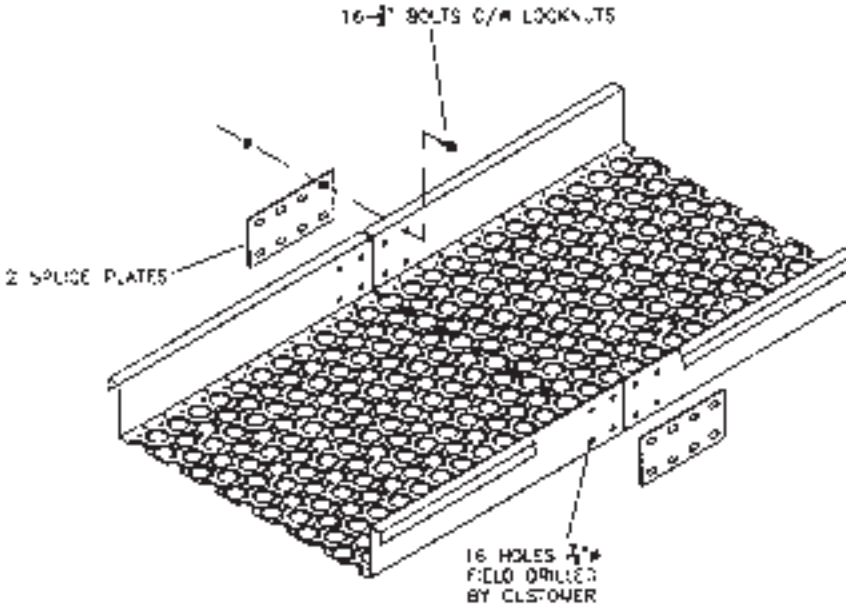
In order to alleviate the necessity of drilling a hole through a structural member, a Bolt Seat and "J" Clip assembly can be used. The friction connection is accomplished by wedging the grating between the Bolt Seat and structural support, by applying pressure to the underside of the flange of the supporting steel (clip no. H12296). Not recommended in areas subject to vibration.



OVER SUPPORT—SPLICE PLATE KIT

Notes:

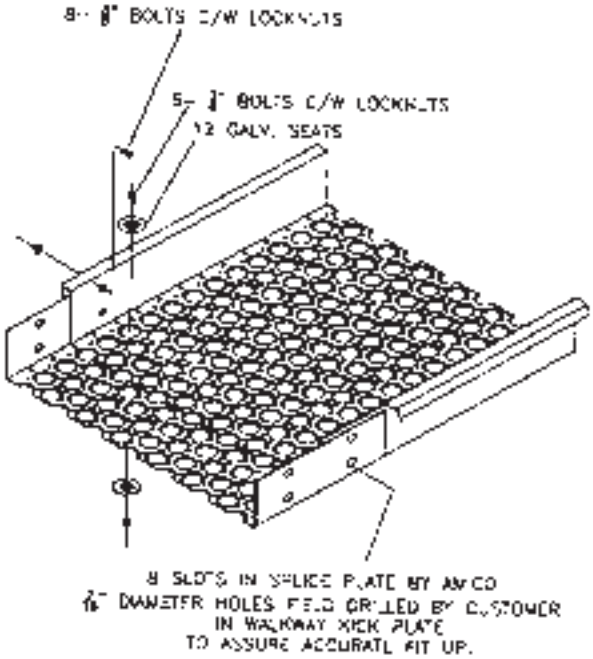
- This kit is intended to splice two sections of walkway together OVER A SUPPORT ONLY.
- The walkway kit includes two splice plates with slotted holes and 16 fastener sets.
- Holes in the grating walkway are not provided by AMICO and are to be field drilled.



BETWEEN SUPPORT—SPLICE PLATE KIT

Notes:

- This kit is intended to splice two sections of any width of walkway together between supports.
- The walkway kit includes one wrap around plate with fastening hardware for walking surface and side channel connection. The fastener points should be staggered evenly across the plank width on each side of the splice. The side channel (kick plate) connection utilizes four slots provided in the splice flange.
- Holes in the grating walkway are not provided by AMICO and are to be field drilled.



Fabricated Fiber-Reinforced Plastic

Grating, Platforms, Ladders and Railings

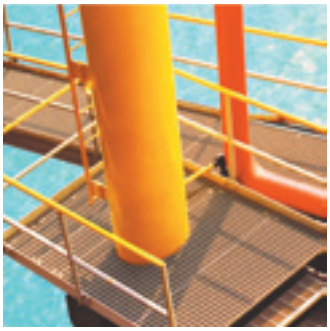
Fiberglass is an extremely versatile material and can be used in place of or in conjunction with aluminum, steel or stainless steel. It is a high-strength, light weight, strong, corrosion-resistant material that is maintenance-free (it never rusts and never needs painting). Other features that make AMICO-Seasafe fiberglass-reinforced plastic products desirable include slip-resistance, non-conductivity, fire retardancy, low thermal conductivity and UV protection.

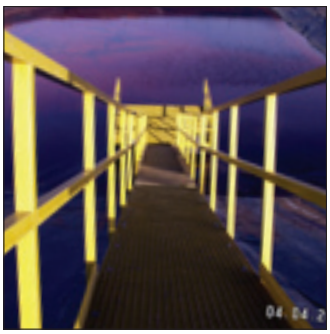
Industries Served

- Energy
- Industrial
- Commercial
- Water/Waste Water Treatment
- Municipal
- Mining/Refining
- Transportation
- Military/Government
- Chemical Processing
- Pulp & Paper

Custom Design and Engineering Capabilities

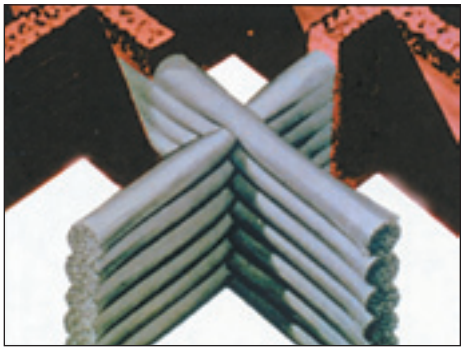
- We provide on-time and competitive bids for your projects, large or small.
- Our experienced estimating and engineering staff will help you develop effective and economical solutions to meet your needs.
- AMICO-Seasafe's unparalleled drafting and professional engineering capabilities ensure that your project is designed accurately and safely.
- Our project management team will assist you every step of the way to ensure that the job is completed to your satisfaction.



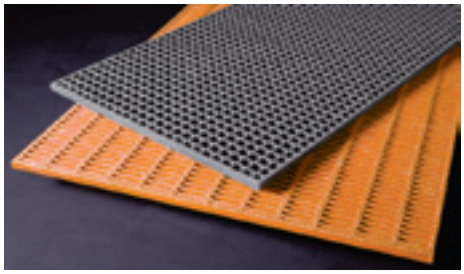


GatorGrate™ Open Molded Grating

GatorGrate molded fiberglass grating is a one-piece, reinforced polyester or vinylester (FRP) grating, available in standard panels and sizes. It is manufactured by interweaving continuous, thoroughly wetted, fiberglass strand with thermosetting resin systems. Standard panels are available in three resin systems, two top surface configurations, four panel sizes and five standard grid patterns. Typical applications include floor systems, walkways, work platforms, stairs, ramps, trench covers and catwalks. GatorGrate has been successfully used in many industries—including oil/gas, mining/smelting/refining, food processing, beverage, chemical processing, water and wastewater treatment, metal finishing, pulp/paper, transportation, pharmaceutical and textile.



Specification writing assistance is available at www.amico-fabricatedgratings.com.



Standard Resin Systems

Standard GatorGrate resin systems are made from premium grade resins. The three standard resin systems are:

PFR – Polyester resin system with Class 1 fire retardancy, per ASTM E-84. Moderate corrosion resistance. Meets USDA standards for incidental food contact. Available in green, yellow, dark gray and light gray.

IFR Plus – Premium grade Isophthalic Polyester resin system with Class 1 fire retardancy per ASTM E-84. Excellent corrosion resistance. Meets USDA standards for incidental food contact. Available in green, yellow, dark gray and light gray.

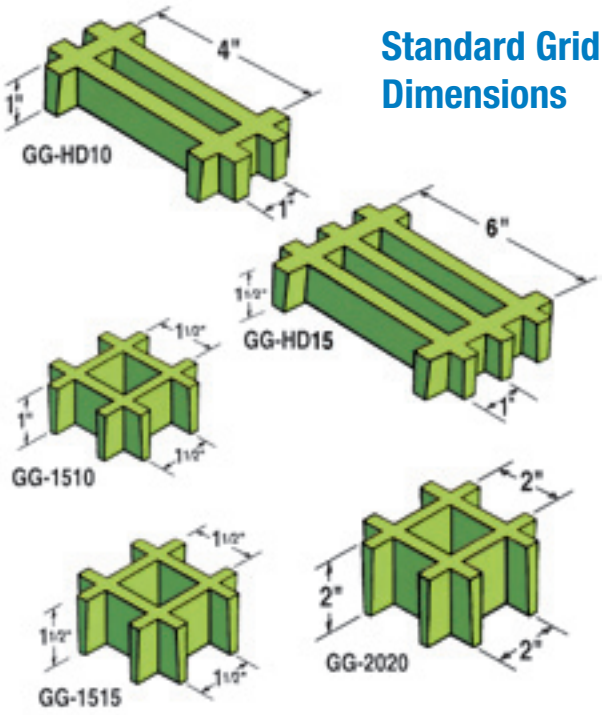
VFR – Vinyl Ester resin system with Class 1 fire retardancy, per ASTM E-84. For maximum corrosion resistance in Seasafe's standard resin systems, specify VFR. Available in orange and dark gray.

(Other resin systems and colors are available on special order. All GatorGrate resin systems incorporate and ultraviolet (UV) inhibitor.)

Product #	Dimensions	Weight
RM-1410	4' wide x 12' long	170 lbs.
RM-1615	4' wide x 12' long	218 lbs.
GG-1510	3' wide x 10' long 4' wide x 12' long	91 lbs. 140 lbs.
GG-1515	3' wide x 10' long 4' wide x 8' long 4' wide x 12' long 5' wide x 10' long	124 lbs. 131 lbs. 193 lbs. 203 lbs.
GG-2020	4' wide x 12' long	205 lbs.

Custom sizes and grids are available upon request.

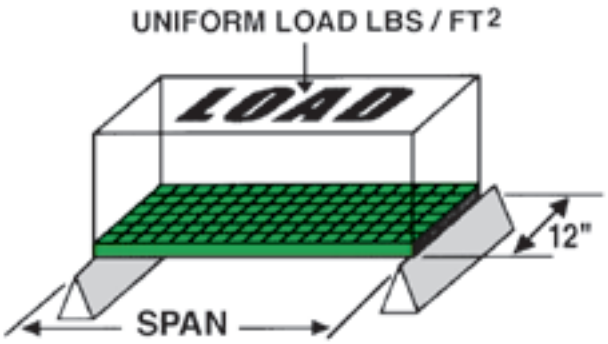
Standard Grid Dimensions



GatorGrate™ Open Molded Grating

GG-1510 Square, 1" Thick (1½" x 1½")

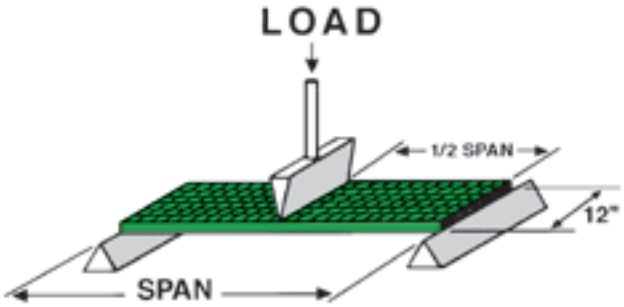
Clear Span	Uniform Load, in Lbs./Ft.² 50	75	100	150	200	250	Deflection in Inches .250" Def	.375" Def
18"	.018	.028	.037	.055	.073	.092	695	1035
24"	.058	.087	.116	.174	.232	.290	220	330
36"	.293	.440	**	**	**	**	45	65
48"*	**	**	**	**	**	**	15	20



GG-1515 Square, 1½" Thick (1½" x 1½")

Clear Span	Uniform Load, in Lbs./Ft.² 50	75	100	150	200	250	Deflection in Inches .250" Def	.375" Def
18"	.006	.008	.011	.017	.023	.028	2170	3260
24"	.018	.027	.036	.054	.071	.089	685	1030
36"	.090	.135	.181	.271	.361	.451	135	205
48"*	.285	.428	**	**	**	**	45	65
60"*	**	**	**	**	**	**	**	**

CONCENTRATED LOAD, 12" WIDE STRIP



GG-2020 Square, 2" Thick (2" x 2")

Clear Span	Uniform Load, in Lbs./Ft.² 50	75	100	150	200	250	Deflection in Inches .250" Def	.375" Def
18"	.004	.006	.008	.012	.016	.020	2840	4260
24"	.011	.016	.021	.032	.043	.054	1165	1745
36"	.045	.068	.090	.135	.180	.225	280	410
48"*	.138	.206	.275	.413	**	**	90	135
60"*	.358	**	**	**	**	**	35	55

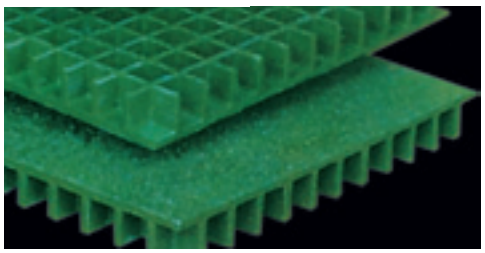
*Clear span is 2" less than width of grating.

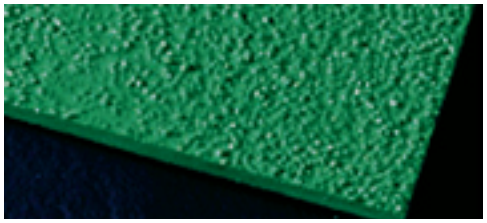
**Deflections greater than 0.500" have been omitted.

GatorPlate™ and Covered Molded Grating

GatorPlate floor plate is perfect for fixing slippery spots or large slippery areas. The anti-slip surface helps reduce slips and falls even when hazardous liquids are present. Seasafe grating is available with GatorPlate attached to the top for a smooth walking surface. Covered grating is used for odor control, as well as for elevated walkways to insure that nothing drops thru the walk-way onto the surface below.

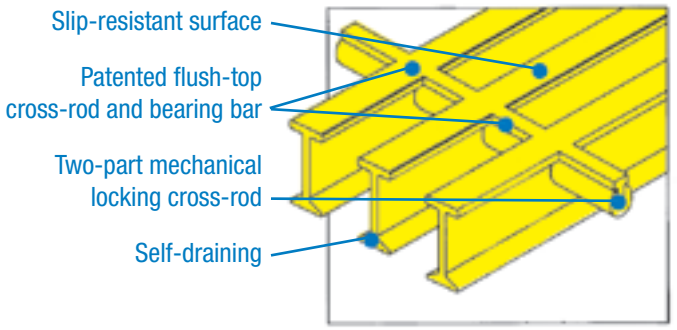
NOTE: Covered molded grating has a varying degree of "out-of-flat." In most applications, this condition will require correction with hold down hardware.





GatorDeck™ Pultruded Grating

Pultrusion is a continuous molding process in which glass roving, glass matting, and a synthetic surface veil are literally "pulled" simultaneously through a flame-retardant polyester or vinylester resin bath. Desired geometric shapes are formed and solidified as they are pulled through a heated steel die. Seasafe's GatorDeck™ pultruded grating provides the ultimate combination of strength, corrosion resistance, and structural integrity as a result of the automated pultrusion process.



Standard Resin Systems

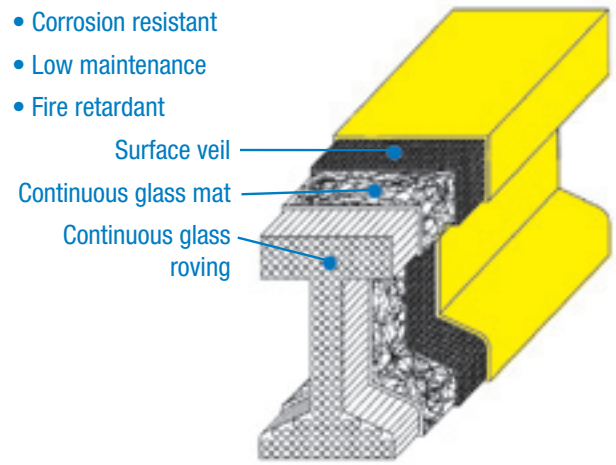
Standard Resins meet ASTM E-84 Class 1 flame rating, and include UV inhibitors for applications involving continuous exposure to the sun. Choose from the following standard resin systems. Or, call us about creating special resins for unique environments, such as low smoke, low toxicity, or extra low flame applications.

IFR – Made with a premium-grade isophthalic polyester flame-retardant resin system. Standard colors are yellow and gray for pultruded grating. WT grating and one inch I-bar grating are also available in white.

VFR – Made with a premium-grade vinylester flame-retardant resin system for added protection against corrosion. Standard colors are yellow and gray for pultruded grating.

Special resins – Please call us to develop resin systems for your application.

- Corrosion resistant
- Low maintenance
- Fire retardant

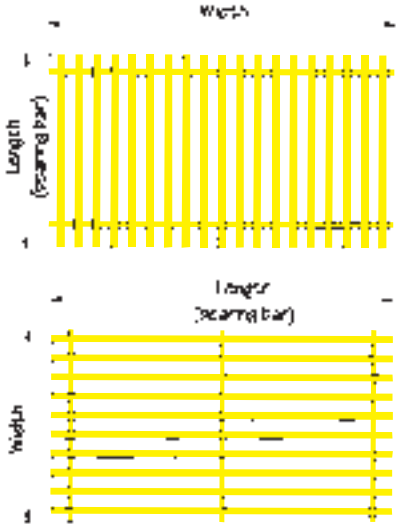


GatorDeck™ Pultruded Grating Selection

Series	Open Area	Depth	Top Flange Width	Bar Spacing	Bars/ Ft	Lbs/ Ft²
I-6010	60%	1"	.6"	1½"	8	2.35
I-4010	40%	1"	.6"	1"	12	3.41
I-6015	60%	1½"	.6"	1½"	8	2.83
I-4015	40%	1½"	.6"	1"	12	4.13
T-2515	25%	1½"	1½"			
T-1215	12%	1½"	1½"			
T-5020	50%	2"	1"	2"	6	3.1
T-3320	33%	2"	1"		8	4.1
WT-3310	33%	1"	1⅝"			
WT-1810	18%	1"	1⅝"			

Width x Length

Grating sizes are specified using width (cross-rod dimension) and length (bearing bar dimension)



Standard Panel Sizes

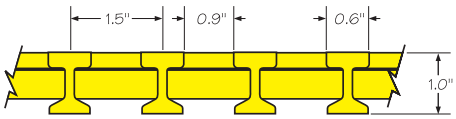
3'-0 x 24'-0	4'-0 x 24'-0
3'-0 x 20'-0	4'-0 x 20'-0
—	4'-0 x 12'-0
3'-0 x 10'-0	4'-0 x 10'-0
—	4'-0 x 8'-0

Custom panel sizes are available up to 5' widths and 24' lengths. Call Seasafe for details.

GatorDeck™ Load and Deflection Data

U = Allowable uniform load, psf
D = Deflection due to U, in

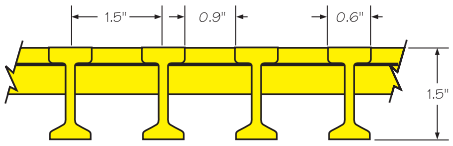
GatorDeck™ GD-I6010



Bearing Bar Type: I-Bar
Open Area: 60%
Thickness: 1.0”
Bearing Bar Centers: 1.5”
Resin Systems: IFR, VFR
Available Colors: Yellow, Gray, White
Approximate Weight: 2.35 lbs/sq ft
Other Bar Spacing Available: 40% and 50% open area

Span Inches	Load Type									Load For .25-inch deflection	Load For .375-inch deflection
12	U	250	500	1000	1500	2000	2400	2800	3200		
	D	.005	.010	.020	.029	.039	.047	.055	.063		
18	U	100	250	500	750	1000	1200	1500	1800	3012	4518
	D	.008	.021	.042	.062	.083	.100	.125	.149		
24	U	100	200	300	400	600	800	1000	1200	1005	1508
	D	.025	.050	.075	.099	.149	.199	.249	.298		
30	U	100	200	300	400	500	600	800		434	650
	D	.058	.115	.173	.231	.288	.346	.461			
36	U	100	125	150	200	300	400			221	332
	D	.113	.141	.169	.226	.339	.452				
42	U	75	100	125	150	250				139	209
	D	.135	.179	.224	.269	.449					
48	U	50	75	100	125					71	106
	D	.176	.265	.353	.441						

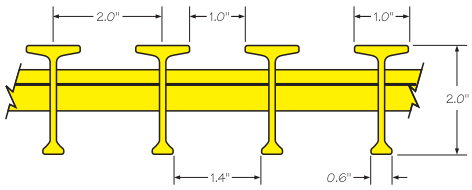
GatorDeck™ GD-I6015



Bearing Bar Type: I-Bar
Open Area: 60%
Thickness: 1.5”
Bearing Bar Centers: 1.5”
Resin Systems: IFR, VFR
Available Colors: Yellow, Gray
Approximate Weight: 2.83 lbs/sq ft
Other Bar Spacing Available: 40% and 50% open area

Span Inches	Load Type									Load For .25-inch deflection	Load For .375-inch deflection
12	U	250	500	1000	1500	2000	2500	3500	4500		
	D	.002	.003	.007	.010	.013	.016	.023	.029		
18	U	250	500	1000	1500	2000	2500	3500	4500		
	D	.008	.015	.030	.045	.061	.076	.106	.136		
24	U	250	500	1000	1500	2000	2500	3000	3500	2737	4106
	D	.023	.046	.091	.137	.183	.228	.274	.320		
30	U	250	500	750	1000	1250	1500	1750	2000	1178	1768
	D	.053	.106	.159	.212	.265	.318	.371	.424		
36	U	100	125	250	500	600	800	1000		631	947
	D	.040	.050	.099	.198	.238	.317	.396			
42	U	100	125	200	300	400	600			315	473
	D	.079	.099	.159	.238	.317	.476				
48	U	100	125	200	250	400				197	295
	D	.127	.159	.254	.317	.508					
54	U	75	100	125	250					140	210
	D	.134	.178	.223	.446						
60	U	50	75	100						88	132
	D	.142	.213	.284							

GatorDeck™ GD-T5020



Bearing Bar Type: T-Bar
Open Area: 50%
Thickness: 2.0”
Bearing Bar Centers: 2.0”
Resin Systems: IFR, VFR
Available Colors: Yellow, Gray
Approximate Weight: 3.10 lbs/sq ft
Other Bar Spacing Available: 33% open area

Span Inches	Load Type									Load For .25-inch deflection	Load For .375-inch deflection
24	U	500	750	1000	1250	1500	2000	3000	4000		
	D	.025	.038	.050	.063	.075	.100	.150	.200		
30	U	250	500	750	1000	1500	2000	2500	3000	1938	2907
	D	.032	.065	.097	.129	.194	.258	.323	.387		
36	U	100	250	500	750	1000	1250	1500	2000	999	1499
	D	.025	.063	.125	.188	.250	.313	.375	.500		
42	U	100	125	250	500	750	1000	1250		550	825
	D	.045	.057	.114	.227	.341	.454	.568			
48	U	100	250	300	400	500	600			313	469
	D	.080	.200	.240	.320	.400	.480				
54	U	100	125	250	300	400				208	313
	D	.120	.150	.300	.360	.480					
60	U	75	100	200	250					129	193
	D	.146	.195	.389	.486						
66	U	75	100	125	150					94	141
	D	.200	.267	.333	.400						
72	U	75	100	125						67	100
	D	.281	.375	.469							
78	U	50	75							48	72
	D	.260	.390								

GatorGrate™ and GatorDeck™ Stair Treads

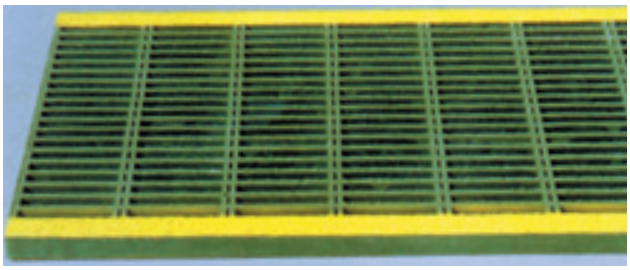
Cut your own stair treads from GatorGrate Stair Tread panels.

Ease of cutting – the panel design incorporates cutting "slots" every six inches so treads can be cut inexpensively, quickly and accurately, resulting in banded treads on both ends.

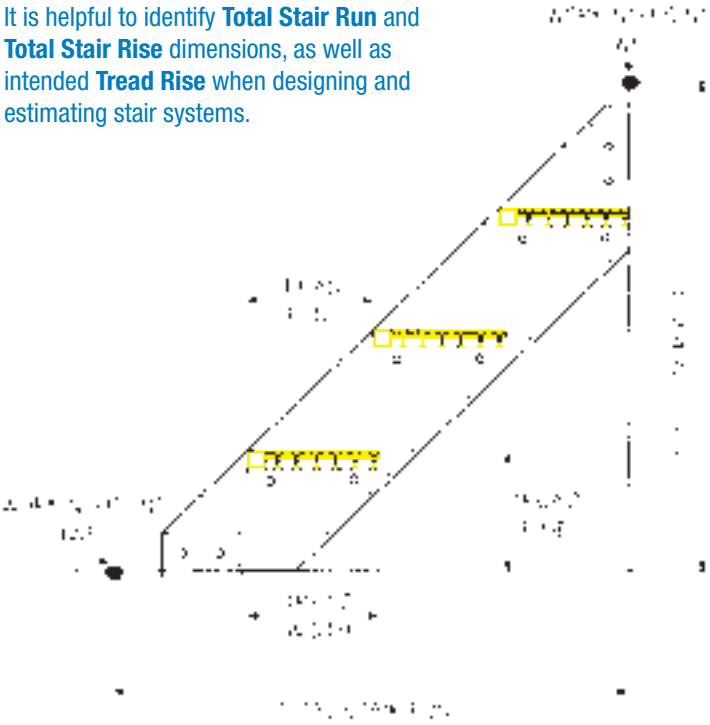
Economy – the 24-1/4" x 144" panel size offers numerous combinations to maximize the number of treads (less wastage = less cost).

Chemical Compatibility – A detailed table of chemical compatibility for GatorGrate products based on resin manufacturers' data is available. To get a copy of this table, which provides maximum allowable concentrations and temperatures, call us at 800-326-8842 or fax 337-406-8880 and ask for Seasafe Tech Support Bulletin #3.

Order to size stair treads made from GatorDeck.



It is helpful to identify **Total Stair Run** and **Total Stair Rise** dimensions, as well as intended **Tread Rise** when designing and estimating stair systems.



Series	Flush Top	Resin	Color
I-6010	Yes	IFR / VFR	Yellow / Green
I-6015	Yes	IFR / VFR	Yellow / Green
T-5020	No	IFR / VFR	Yellow / Green

Fiberglass Stair Tread Covers are a cost-effective way to improve stairway safety for your workers. They are made with corrosion resistant resin with a low flame spread rating. Panels include an integral grit top surface and a woven fiberglass mat.

Fiberglass Cable Tray Systems

Why Specify Seasafe Cable Tray?

Since 1978, Seasafe Fiberglass Cable Tray Systems have been tested and proven in the harsh environment of the offshore oil and gas industry, and are accepted by the U.S. Coast Guard. Subject to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and saltwater, Seasafe Cable Tray has stood up!

Seasafe Cable Tray gives you the load capacity of steel plus the inherent characteristics afforded by our in-house Pultrusion Technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, their strength-to-weight ratio surpasses that of equivalent steel products. Seasafe Cable Tray will not rust, nor does it ever require painting. Available in both polyester and vinylester resin systems, it is manufactured to meet ASTM E-84, Class 1 Flame Rating and self-extinguishing requirements of ASTM D-635.

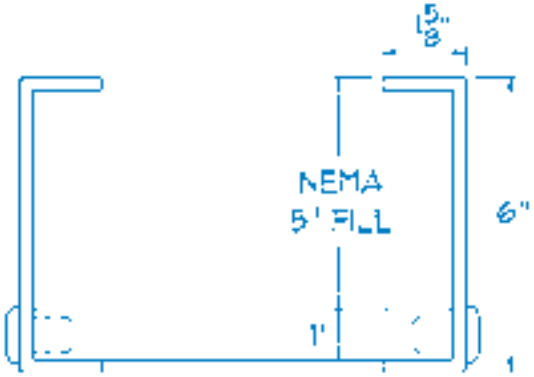
A surface veil is applied during the pultrusion process to ensure a resin-rich surface for superior corrosion resistance as well as an ultraviolet exposure barrier. Cable Tray comes in two standard colors: gray (polyester resin) and beige (vinylester resin). Custom colors are available on request.

Series 6B
Loading – NEMA 20B

Series 6C
Loading – NEMA 20C–S.F.1.5

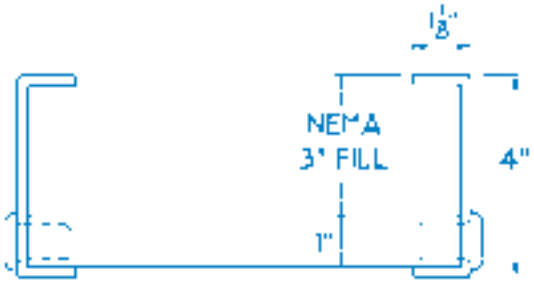
Series H6C
Loading – NEMA 20C–S.F.2.0

6” side rail systems offer a NEMA 5” loading depth.



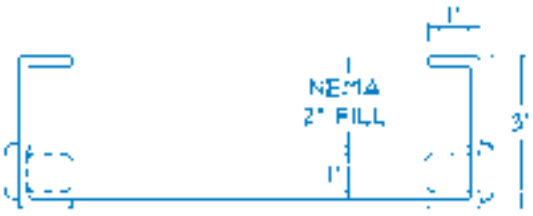
Series 4
Loading – NEMA 12C

4” side rail systems offer a NEMA 3” loading depth.



Series 3
Loading – NEMA 8C

3” side rail systems offer a NEMA 2” loading depth.



The NEMA loadings listed in this brochure are load-tested in accordance with NEMA FG-1 guidelines.

Custom colors, sizes and resins are available upon request.

Cable Tray standard sizes:

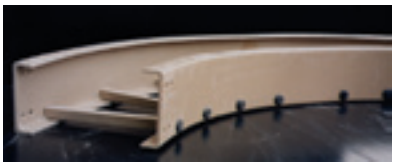
Widths:	6”	9”	12”	18”	24”	30”	36”
Rung Spacing:	6”	9”	12”	18”			
Length:	120” (10’)		240” (20’)				

Fiberglass Cable Tray Systems

Fittings:

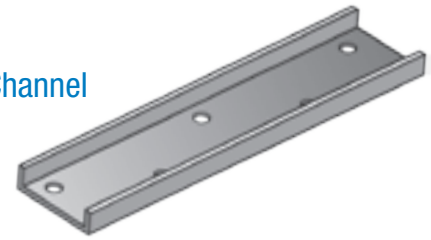
3” Series, 4” Series and 6” Series

You may specify fittings mitered in 30, 45, 60 and 90 radius



FCCV

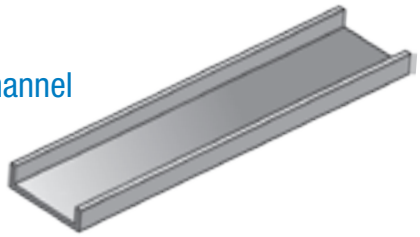
Fiberglass Cable Channel
Ventilated



Polyester	Vinylester	Width	Length	Height
FCCVP-02-120	FCCVV-02-120	2”	10’	1”
FCCVP-02-240	FCCVV-02-240	2”	20’	1”
FCCVP-03-120	FCCVV-03-120	3”	10’	1”
FCCVP-03-240	FCCVV-03-240	3”	20’	1”
FCCVP-04-120	FCCVV-04-120	4”	10’	1 1/8”
FCCVP-04-240	FCCVV-04-240	4”	20’	1 1/8”
FCCVP-06-120	FCCVV-06-120	6”	10’	1 5/8”
FCCVP-06-240	FCCVV-06-240	6”	20’	1 5/8”
FCCVP-08-120	FCCVV-08-120	8”	10’	2 3/16”
FCCVP-08-240	FCCVV-08-240	8”	20’	2 3/16”

FCCN

Fiberglass Cable Channel
Non-Ventilated



Polyester	Vinylester	Width	Length	Height
FCCNP-02-120	FCCNV-02-120	2”	10’	1”
FCCNP-02-240	FCCNV-02-240	2”	20’	1”
FCCNP-03-120	FCCNV-03-120	3”	10’	1”
FCCNP-03-240	FCCNV-03-240	3”	20’	1”
FCCNP-04-120	FCCNV-04-120	4”	10’	1 1/8”
FCCNP-04-240	FCCNV-04-240	4”	20’	1 1/8”
FCCNP-06-120	FCCNV-06-120	6”	10’	1 5/8”
FCCNP-06-240	FCCNV-06-240	6”	20’	1 5/8”
FCCNP-08-120	FCCNV-08-120	8”	10’	2 3/16”
FCCNP-08-240	FCCNV-08-240	8”	20’	2 3/16”

Fiberglass Strut Systems

Seasafe is proud to present our complete line of Fiberglass Strut and Accessories. You’ll find a wide selection of non-metallic accessories, fasteners, hangers, pipe clamps and channels. With more than 20 years of corrosion-combat experience, we provide a complete line, together with the know-how required to solve your problems. And we are dedicated to timely delivery as well as precise solutions to your problems.

Most Seasafe Strut Products are available in a choice of resins—either vinylester or polyester. Our design and engineering staff is ready to help you select the material that best suits your needs, in the most effective and efficient manners.

To assist you in selecting the correct Seasafe Strut Products quickly and easily, a comprehensive Part Number Index is available.

Our complete catalog of Seasafe fiberglass strut systems is available on request or on our website. The catalog is organized so you can easily find what you need. A local network of Seasafe stocking representatives and distributors also stands ready to help you. Just tell us what you need—we’ll do the rest!

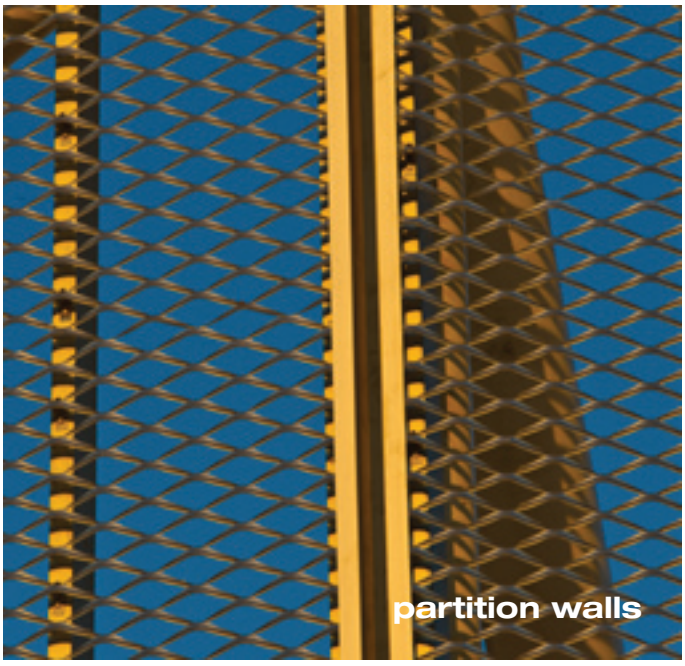
Expanded Metal

AMICO manufactures and fabricates a wide range of expanded metal mesh products for industrial and architectural use. Traditionally used for applications such as walkways and machine guards, expanded metal mesh is finding new applications, which range from architectural cladding, railings, ceiling panels, and sun-shades, etc.

façades

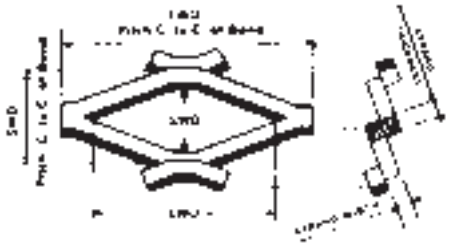
sun shades

walking surfaces

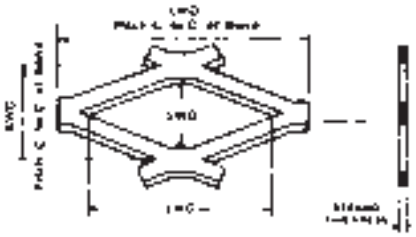

partition walls

Expanded Metal

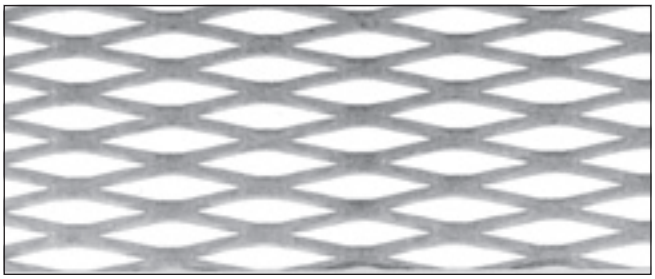
REGULAR EXPANDED METAL is a finished product as it comes from the press after having been die cut and expanded. The illustration shows that the strands and bonds form a sharp angle to the original plane of the solid sheet.



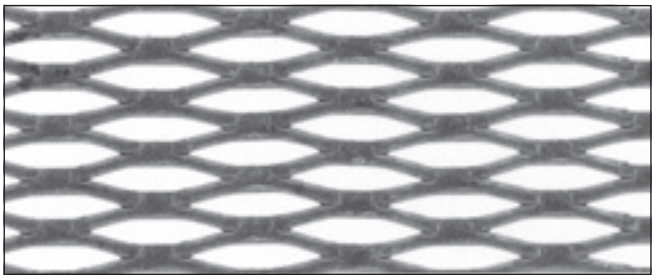
FLATTENED EXPANDED METAL is a regular expanded metal which has been cold rolled, leaving a flat, smooth surface. The length of the sheet is elongated usually by 5% while the width stays the same.



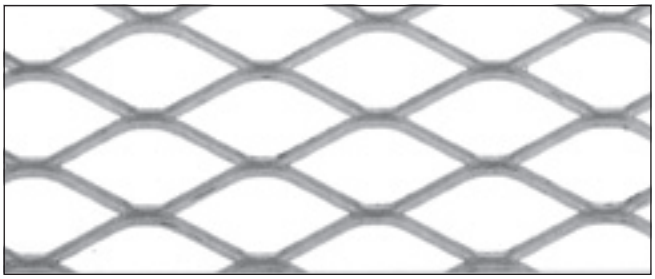
Patterns shown actual size



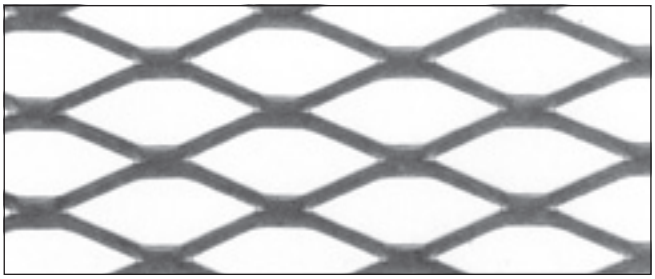
1/4" #20 REGULAR



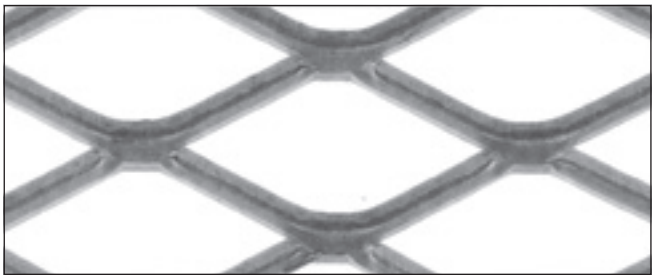
1/4" #20 FLATTENED



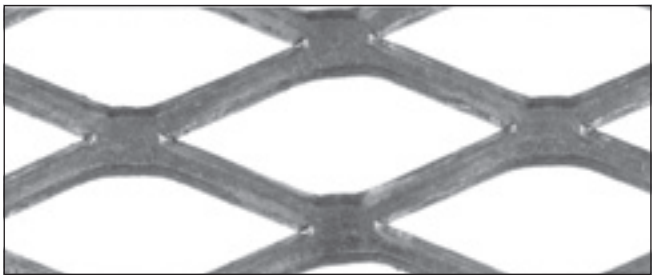
1/2" #16 REGULAR



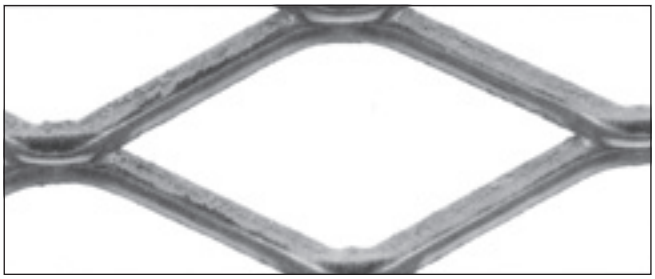
1/2" #16 FLATTENED



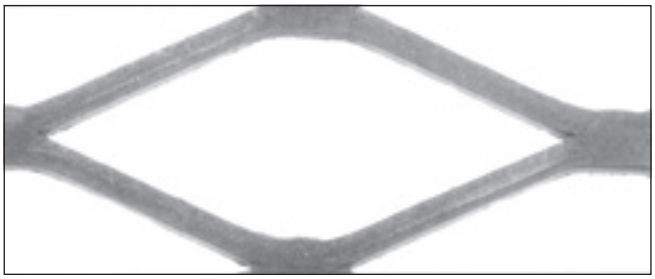
3/4" #9 REGULAR



3/4" #9 FLATTENED



1 1/2" #9 REGULAR



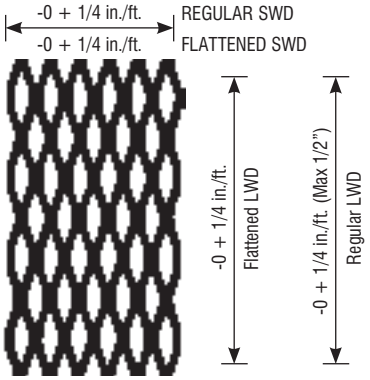
1 1/2" #9 FLATTENED

Expanded Metal Tolerances

REGULAR
SWD – Shall not vary greater than -0 + 1/4 inch per foot of width.
LWD – Shall not vary greater than -0 + 1/4 inch per foot of length.

FLATTENED
SWD – After Flattening
Shall not vary from the nominal dimension more than -0 + 1/4 inch per foot of dimension.
LWD – After Flattening
Shall not vary from the nominal dimension more than -0 + 1/4 inch per foot of dimension.

SKETCH A



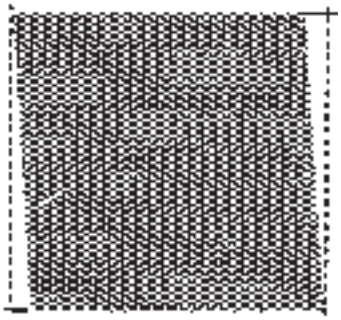
CLOSED DIAMONDS ALL FOUR SIDES

Flatness (Levelness) – Sheets shall be free from waves or buckles that are in excess of 1-1/2 inch from a plane surface.

Sketch A typifies the edge conditions of a normal standard size sheet as it emerges from the expanding press. It is simply expanded to size and is characterized by closed diamonds on all four sides.

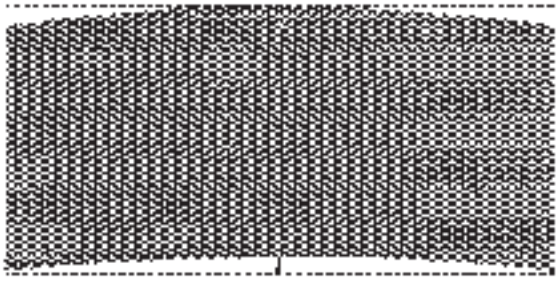
Squareness – Edges shall be such that any intersecting sides shall not be out of square in excess of 1/8 inch per foot either direction, to a maximum of 1/2 inch overall regular.

Squareness After Flattening – Ends shall not be more than 1/8 inch per foot out of square or 1/2 inch overall in relation to the side of the sheet used to gauge the shearing.



Camber – The greatest deviation of a side edge from a straight line shall not exceed 3/32 inch per foot of dimension, SWD and LWD. Regular.

Camber After Flattening – The greatest deviation of a side edge from a straight line after flattening shall not exceed 3/32 inch per foot of dimension.



RANDOM SHEARED TOLERANCE

SKETCH B

Random sheared one side and one end ± 1/4", causing open diamonds one side SWD and one side LWD.

Expanded Metal Grating ±1/2".

SKETCH C

Random sheared LWD ends ± 1/8", causing open diamonds on LWD.

Expanded Metal Grating ± 1/4".

SKETCH D

Random sheared SWD and LWD ± 1/8". Open diamonds all four sides. This process will resquare the sheet and eliminates the out of square and camber tolerance found in stock size sheets.
Note: Random sheared on Expanded Metal Grating ±1/4".

Regular Expanded Metal

Table A NOMINAL WEIGHTS AND DIMENSIONS*

Style	Minimum** thickness (Inches)	Nominal Weight in Lbs. per 100 Sq. Ft.	Design Size (Inches) SWD	Design Size (Inches) LWD	Opening Size (Inches) SWO	Opening Size (Inches) LWO	Strand Size (Inches) Width	Strand Size (Inches) Thickness	Overall Thickness (Inches)	No. of Diamonds Per Ft. SWD	No. of Diamonds Per Ft. LWD	(%) Open Area
STANDARD-CARBON STEEL												
⅛"-#20	.032	86	.250	1.00	.125	.718	.072	.036	.135	48	12	45
⅛"-#18	.042	114	.250	1.00	.110	.718	.072	.048	.147)	48	12	43
¼"-#20	.032	43	.500	1.20	.438	.938	.072	.036	.140	24	10	60
¼"-#18	.042	70	.500	1.20	.438	.938	.088	.048	.172	24	10	72
¼"-#16	.053	86	.500	1.20	.375	.938	.087	.060	.175	24	10	65
¼"-#13	.083	147	.500	1.20	.312	.938	.096	.092	.204	24	10	57
½"-#16	.053	54	.923	2.00	.813	1.750	.101	.060	.210	13	6	78
½"-#13	.083	80	.923	2.00	.750	1.688	.096	.092	.205	13	6	76
½"-#10	.083	120	.923	2.00	.750	1.625	.144	.092	.290	13	6	72
½"-# 9	.127	180	.923	2.00	.688	1.562	.150	.134	.312	13	6	68
1"-#16	.053	44	1.00	2.40	.938	2.062	.087	.060	.192	12	5	82
1¼"-#18	.042	20	1.33	3.00	1.313	2.625	.068	.048	.140	9	4	90
1¼"-#16	.053	40	1.33	3.00	1.250	2.625	.108	.060	.230	9	4	85
1¼"-#13	.083	60	1.33	3.00	1.188	2.500	.105	.092	.242	9	4	85
1¼"-#10	.083	79	1.33	3.00	1.188	2.500	.138	.092	.284	9	4	80
1¼"-# 9	.127	120	1.33	3.00	1.125	2.375	.144	.134	.312	9	4	76
1¼"-# 6	.184	250	1.33	3.00	1.110	2.313	.203	.198	.433	9	4	69
2"-#10	.083	68	1.85	4.00	1.625	3.438	.164	.092	.327	6.5	3	82
2"-# 9	.127	90	1.85	4.00	1.563	3.375	.149	.134	.312	6.5	3	84
STANDARD-STAINLESS STEEL												
¼"-#18		73	.500	1.20	.437	.937	.087	.050	.164	24	10	68
¼"-#16		91	.500	1.20	.437	.937	.087	.062	.164	24	10	60
¼"-#13		187	.500	1.20	.325	.875	.119	.093	.225	24	10	56
½"-#18		48	.923	2.00	.812	1.750	.106	.050	.202	13	6	85
½"-#16		60	.923	2.00	.812	1.750	.106	.062	.202	13	6	83
½"-#13		91	.923	2.00	.750	1.687	.107	.093	.202	13	6	80
½"-# 9		205	.923	2.00	.687	1.562	.160	.140	.300	13	6	67
1¼"-#16		45	1.33	3.00	1.250	2.750	.115	.062	.222	9	4	85
1¼"-#13		68	1.33	3.00	1.250	2.625	.115	.093	.222	9	4	83
1¼"-# 9		137	1.33	3.00	1.125	2.500	.155	.140	.280	9	4	77
STANDARD-ALUMINUM												
¼"-.050		27	.500	1.20	.375	.937	.093	.050	.158	24	10	65
¼"-.080		44	.500	1.20	.375	.937	.096	.080	.186	24	10	60
½"-.050		17	.923	2.00	.812	1.750	.109	.050	.200	13	6	78
½"-.080(LT)		32	.923	2.00	.750	1.680	.129	.080	.220	13	6	76
½"-.080(HVY)		41	.923	2.00	.750	1.680	.165	.080	.300	13	6	69
½"-.125		65	.923	2.00	.687	1.680	.169	.125	.305	13	6	68
1¼"-.080		22	1.33	3.00	1.187	2.500	.128	.080	.240	9	4	85
1¼"-.125		43	1.33	3.00	1.187	2.500	.162	.125	.300	9	4	79

*Nominal weights and dimensions of all Expanded Metals are approximate. A variation of 10% is permitted.
**The minimum thickness is absolute, not subject to minus variation.
Weights, thickness, dimensions and sizes are subject to mill tolerances.
Consult manufacturer for maximum sizes and minimum quantities.

- Expanded metal tables provided above are a courtesy of NAAMM / EMMA (557-12).
- The styles listed may vary by weight and dimension based on the buyers' specifications.
- If materials require documentation meeting EMMA / ASTM standards, such as government and / or code projects, advise your AMICO sales representative at time of inquiry or order.
- If reverse diamond materials are required, ask your AMICO sales representative for assistance.
- Standard sheet sizes range from 4ft (SWD) x 8ft (LWD) up to 6ft (SWD) x 12ft (LWD). For non-standard sheet sizes, contact your AMICO sales representatives.

Flattened Expanded Metal

Table B — NOMINAL WEIGHTS AND DIMENSIONS*

Style	Minimum** thickness (Inches)	Nominal Weight in Lbs. per 100 Sq. Ft.	Design Size (Inches) SWD	Design Size (Inches) LWD	Opening Size (Inches) SWO	Opening Size (Inches) LWO	Strand Size (Inches) Width	Strand Size (Inches) Thickness	Overall Thickness (Inches)	No. of Diamonds Per Ft. SWD	No. of Diamonds Per Ft. LWD	(%) Open Area
FLATTENED-CARBON STEEL												
½"-#20	.029	82	.250	1.05	.084	.715	.079	.030	.030	48	11.6	35
½"-#18	.039	108	.250	1.05	.075	.175	.080	.040	.040	48	11.6	35
½"-#20	.029	40	.500	1.25	.375	1.000	.079	.029	.029	24	9.5	65
½"-#18	.039	66	.500	1.25	.312	1.000	.097	.039	.039	24	9.5	60
½"-#16	.048	82	.500	1.25	.312	1.000	.096	.050	.050	24	9.5	63
½"-#13	.068	140	.500	1.25	.265	1.000	.107	.070	.070	24	9.5	52
¾"-#16	.048	51	.923	2.10	.750	1.750	.111	.048	.048	13	5.7	75
¾"-#14	.060	63	.923	2.10	.688	1.760	.105	.061	.061	13	5.7	74
¾"-#13	.068	75	.923	2.10	.688	1.781	.106	.070	.070	13	5.7	73
¾"-#10	.068	114	.923	2.10	.637	1.755	.160	.070	.070	13	5.7	68
¾"-# 9	.108	171	.923	2.10	.563	1.688	.165	.120	.120	13	5.7	63
1"-#16	.048	41	1.00	2.50	.813	2.250	.098	.050	.050	12	4.684	78
1½"-#16	.048	38	1.33	3.20	1.062	2.750	.119	.048	.048	9	3.75	83
1½"-#14	.060	46	1.33	3.20	1.062	2.750	.116	.060	.060	9	3.75	80
1½"-#13	.068	57	1.33	3.20	1.062	2.750	.116	.070	.070	9	3.75	80
1½"-# 9	.108	114	1.33	3.20	1.000	2.563	.158	.110	.110	9	3.75	75
FLATTENED-STAINLESS STEEL												
½"-#18		69	.500	1.26	.312	1.000	.098	.040	.040	24	9.5	60
½"-#16		86	.500	1.26	.312	1.000	.099	.050	.050	24	9.5	60
½"-#13		178	.500	1.26	.240	.915	.132	.080	.080	24	9.5	57
¾"-#18		46	.923	2.10	.750	1.812	.118	.040	.040	13	5.7	77
¾"-#16		57	.923	2.10	.750	1.812	.118	.050	.050	13	5.7	75
¾"-#13		86	.923	2.10	.625	1.750	.120	.070	.070	13	5.7	74
¾"-# 9		195	.923	2.10	.562	1.687	.165	.119	.119	13	5.7	61
1½"-#16		43	1.33	3.15	1.062	2.750	.128	.050	.050	9	3.8	80
1½"-#13		65	1.33	3.15	1.000	2.625	.130	.079	.079	9	3.8	80
1½"-# 9		131	1.33	3.15	.937	2.625	.165	.119	.119	9	3.8	75
FLATTENED-ALUMINUM												
½"-.050		26	.500	1.27	.312	1.000	.104	.040	.040	24	9.5	61
½"-.080		42	.500	1.27	.312	1.000	.105	.060	.060	24	9.5	58
¾"-.050		16	.923	2.125	.750	1.812	.122	.040	.040	13	5.66	72
¾"-.080 (Lt.)		30	.923	2.125	.687	1.750	.143	.070	.070	13	5.66	70
¾"-.080 (Hvy.)		39	.923	2.125	.687	1.750	.181	.070	.070	13	5.66	63
¾"-.125		62	.923	2.125	.625	1.750	.187	.095	.095	13	5.66	62
1½"-.080		21	1.33	3.15	1.062	2.750	.143	.070	.070	9	3.8	77
1½"-.125		41	1.33	3.15	1.000	2.750	.181	.095	.095	9	3.8	70

*Nominal weights and dimensions of all Expanded Metals are approximate. A variation of 10% is permitted.
**The minimum thickness is absolute, not subject to minus variation.
Weights, thickness, dimensions and sizes are subject to mill tolerances.
Consult manufacturer for maximum sizes and minimum quantities.

- Expanded metal tables provided above are a courtesy of NAAMM / EMMA (557-12).
- The styles listed may vary by weight and dimension based on the buyers' specifications.
- If materials require documentation meeting EMMA / ASTM standards, such as government and / or code projects, advise your AMICO sales representative at time of inquiry or order.
- If reverse diamond materials are required, ask your AMICO sales representative for assistance.
- Standard sheet sizes range from 4ft (SWD) x 8ft (LWD) up to 6ft (SWD) x 12ft (LWD). For non-standard sheet sizes, contact your AMICO sales representatives.

Regular Expanded Metal

Table D

NOMINAL WEIGHTS AND DIMENSIONS*

Style	Nominal Weight in lbs. Per Sq. Ft.	Design Size (Inches) SWD	Design Size (Inches) LWD	Opening Size (Inches) SWO	Opening Size (Inches) LWO	Strand Size (Inches) Width	Strand Size (Inches) Thick-ness	Overall Thick-ness (Inches)	No. of Diamonds Per Ft. SWD	No. of Diamonds Per Ft. LWD	(%) Open Area
GRATING-CARBON STEEL											
2.0 lb.	2.00	1.33	5.33	1.000	3.60	.235	.135	.460	9	2.25	77
3.0 lb.	3.00	1.33	5.33	.940	3.44	.264	.183	.540	9	2.25	60
3.14 lb.	3.14	2.00	6.00	1.625	4.88	.312	.250	.656	6	2	69
4.0 lb.	4.00	1.33	5.33	.940	3.44	.300	.215	.618	9	2.25	55
4.27 lb.	4.27	1.41	4.00	1.000	2.88	.300	.250	.625	8.5	3	58
5.0 lb.	5.00	1.33	5.33	.813	3.38	.331	.250	.655	9	2.25	50
6.25 lb.	6.25	1.41	5.33	.813	3.38	.350	.312	.715	8.5	2.25	50
7.0 lb.	7.00	1.41	5.33	.813	3.38	.391	.318	.740	8.5	2.25	45
GRATING-STAINLESS STEEL											
3.3 lb.	3.32	2.00	6.0	1.625	4.88	.312	.250	.656	6	2	69
4.5 lb.	4.25	1.41	4.0	1.000	2.88	.300	.250	.625	8.5	3	58
GRATING-ALUMINUM											
2.0 lb.	2.0	1.33	5.33	.940	3.44	.387	.250	.730	9	2.25	48

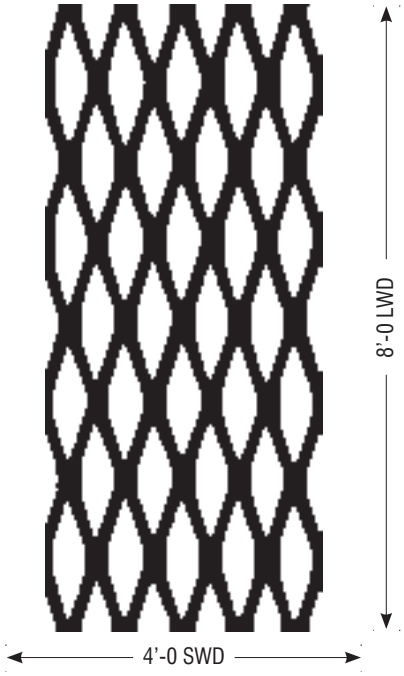
*Nominal weights and dimensions of Expanded Metal grating are approximate. A variation of 5% is permitted.

- Expanded metal tables provided above are a courtesy of NAAMM / EMMA (557-12).
- The styles listed may vary by weight and dimension based on the buyers' specifications.
- If materials require documentation meeting EMMA / ASTM standards, such as government and / or code projects, advise your AMICO sales representative at time of inquiry or order.
- If reverse diamond materials are required, ask your AMICO sales representative for assistance.
- Standard sheet sizes range from 4ft (SWD) x 8ft (LWD) up to 6ft (SWD) x 12ft (LWD). For non-standard sheet sizes, contact your AMICO sales representatives.

HOW TO ORDER EXPANDED METAL

- Specify the size sheet required, listing SWD first.
  Example: 4'-0 SWD x 8'-0 LWD
- Specify the number of sheets or pieces required.
- Specify the nominal width of the diamond SWD
  Example: 3/16", 1/4", 1/2", 3/4", 1", 1 1/2", 2"
- Specify the style of the sheet
  Example: #18, #20, #16, #13, #9
- Specify R (Regular), F (Flattened)
- Specify the type of metal required
  Example: Carbon steel, Stainless steel, Aluminum, etc.

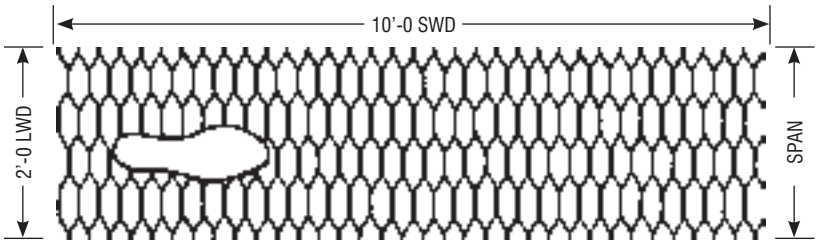
EXAMPLE OF TYPICAL ORDER:
100 SHEETS...3/4"...#9F
4'-0 X 8'-0 CARBON STEEL



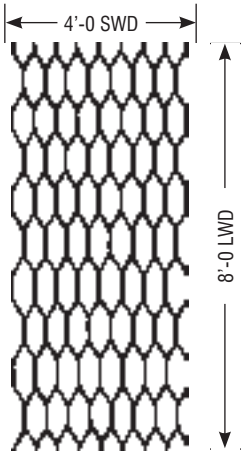
HOW TO ORDER EXPANDED METAL GRATING OR REVERSE DIAMOND GRATING

- Specify the size sheet required, listing SWD first.
  Example: Expanded Metal Grating 4'-0 x 8'-0, 4'-0 x 10'-0, 6'-0 x 5'-0, 6'-0 x 10'-0.
- Specify the number of sheets or pieces required.
- Specify Wt./Sq. Ft. required
  Example: 2.0 lb., 3.0 lb., 3.14 lb., 4.0 lb., 4.27 lb., 5.0 lb., 6.25 lb., 7.0 lb.

EXAMPLE TYPICAL ORDER
EXPANDED METAL REVERSE DIAMOND GRATING
10'-0 x 2'-0 - 10'-0 X 2'-6 - 10'-0 X 3'-0



REVERSE DIAMOND EXPANDED METAL GRATING



EXPANDED METAL GRATING

Expanded Metal & Expanded Metal Grating

NOMENCLATURE

BOND—The point where adjacent strands intersect. The bond is always twice the width of the strand.

CAMBER—Bow in sheet. It is measured by placing a straight edge along the concave side of the sheet parallel to LWD, touching both ends of the sheet. The maximum distance between the edge of the expanded metal and the straight edge is the camber. A sheet may be within a width tolerance and still have camber.
C.S.F—(hundred square feet) the unit of measure for price and weight.

DIAMOND OR OPENING—This is the description of the open area formed by strands and bonds. Normally the open area is diamond shaped.

FORMABILITY—Each piece should be able to withstand a 90 degree bend with a 1/4 inch inside radius in either direction, without fracture.

LEVELING—All expanded metal products except grating are leveled after having been expanded.

LWD OR LWO—Long way of diamond or long way of opening is the dimension measured across the sheet in a direction parallel to the largest dimension of the diamond.

MESH—This is the nominal distance from the mid-point of one bond to the mid-point of the next bond measured across the SWD. Mesh is expressed in inches.

OPENING SIZE—The area enclosed by bonds and strands.

OUT OF SQUARE—Expanded metal sheets are generally not perfectly square when finished. Sheets must be resquared by shearing on all sides for perfect squareness.

Reshearing at the mill is not usually done since most sheets are sheared to size to be within tolerance.

OVERALL HEIGHT—This is the finished height and often determines the selection of framing members.

PERCENT OF OPEN AREA—The relation of solid metal to open diamond allowing light, liquids and air to pass.

PITCH—The measurement from a point on one diamond to the same point on an adjacent diamond.

REVERSE DIAMOND—Panels that have their long way diamond direction coinciding with the short direction of the panel.

STRAND—The single metal strip which forms the border of the diamond, or opening. Strand width is the amount of material advanced for expanding as differentiated from strand thickness which is the thickness of metal from which the expanded metal is produced.

STYLE—Is the guage or thickness of metal from which expanded metal is made. Usually, but not always, this conforms to manufacturer's standard guages. Style is expressed by a number. Expanded metal grating style is expressed in lbs. per square foot.

SWD OR SWO—Short way of diamond or short way of opening is the dimension measured across the sheet in a direction parallel to the smallest dimension of the diamond.

PRODUCT DEFINITION

DECORATIVE EXPANDED METAL is manufactured with unique shaped openings which possess great appeal for architects and designers.

DISTRIBUTION—expanded metal products are readily available from large stocks maintained by your local steel service center.

EXPANDED METAL GRATING is produced from heavier plate, usually low-carbon steel, with larger diamonds. It is typically used for walkways and platforms.

FINISHING—Limited finishes can be accomplished at manufacturing plants. This includes hot-dip galvanizing and pre-galvanizing.

FLATTENED EXPANDED METAL is manufactured by processing regular expanded metal in a rolling mill. This rolling process reduces the thickness of the sheet and provides a smooth flat sheet.

REGULAR EXPANDED METAL is sheet simultaneously slit and stretched into a rigid, non-raveling open mesh. It is readily available in carbon steel, aluminum and stainless steel.

SHEET SIZE—While expanded metal can be manufactured in many varying sheet sizes, practical limitations are such that it is wise to select sheet sizes shown in the catalog. Availability of sizes can be determined by contacting your steel service center.

STAIR TREADS—Expanded Metal Grating Stair Treads are fabricated using 4.0# Grating, angles and bars. They are shipped ready for installation on the job.

Special finishing such as anodizing, enameling, and plastic coating can be arranged by contacting your steel service center.

PRODUCT SELECTION

*The first step in the design of a product or fabricated assembly incorporating expanded metal is to **select the appropriate expanded metal pattern**, keeping in mind various product characteristics.*

The strength and rigidity of expanded metal material is determined by Long Way of Design. On a walkway, for example, the LWD should run perpendicular to the walkway support.

Diamond direction also affects air deflection and diffusion, concealment properties and aesthetic appearance. Consult your supplier for suggestions.

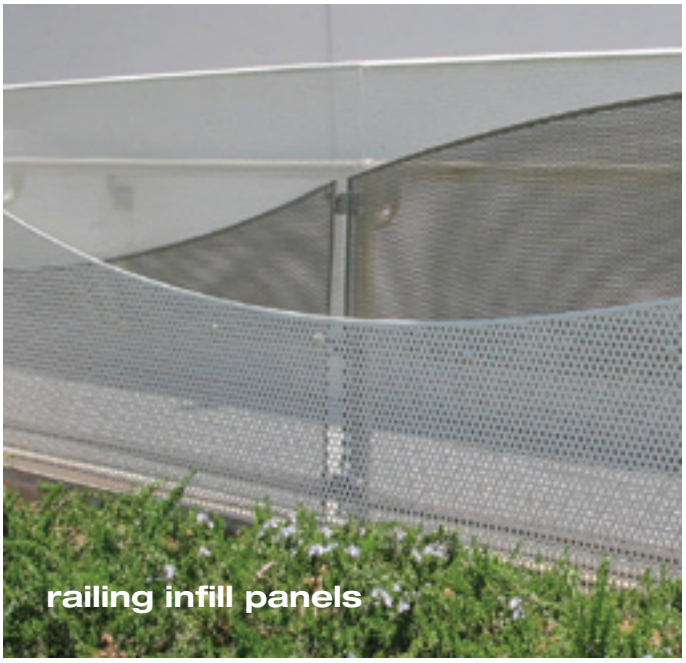
*Most manufacturers can and do routinely furnish expanded metal in special ("non-standard") sheet sizes when requested. In this event, it is important for the specifier to give some consideration to the **edge configuration** of the sheet as it relates to any particular requirement since the cost may be affected by the manufacturing operations necessary to shear the edge desired.*

Perforated Metal

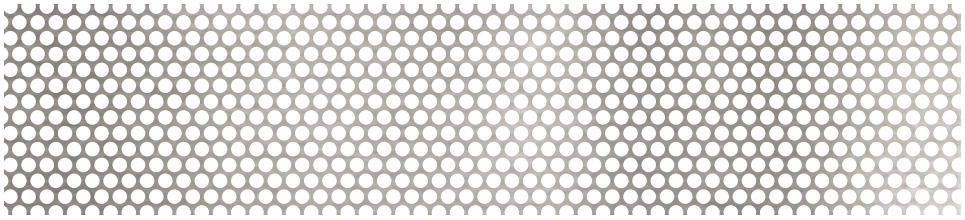
AMICO manufactures a wide range of perforated metal products across North America. Our state-of-the-art CNC presses allow us to produce highly customized perforated parts, which are used in a myriad of applications.

building façades

truck grilles

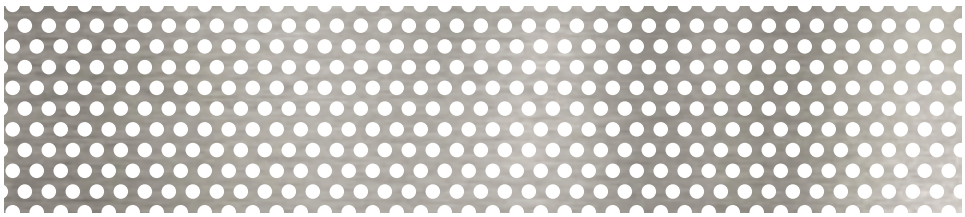

railing infill panels

Perforated Metal



1/16” Diameter 3/32”
Staggered Centers
128 Holes PSI
44% Open Area

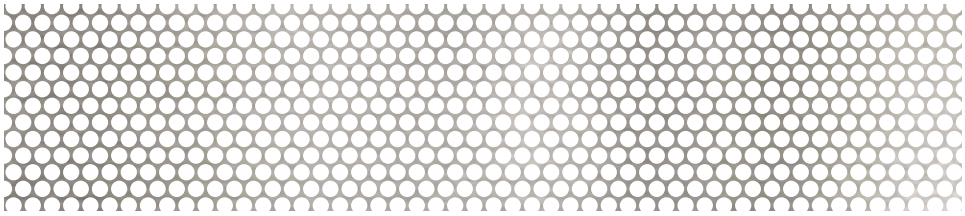
Item No.	Material	Gauge	Sheet Size
3636	S/S T304-2B	26	36X120
3638	S/S T304-2B	22	36X120
3249	S/S T304-2B	20	48X120



1/16” Diameter 1/8”
Staggered Centers
74 Holes PSI
25% Open Area

Item No.	Material	Gauge	Sheet Size
3822	ALU 5032-H32	.032	36X120
3825	ALU 5032-H32	.063	36X120
3826	ALU 5032-H32	.063	48X120
3631	S/S T304-2B	24	36X120
3632	S/S T304-2B	22	36X120
3633	S/S T304-2B	20	36X120
3635	S/S T304-2B	20	48X120

Item No.	Material	Gauge	Sheet Size
3009	STEEL	24	36X84
3009A	STEEL	24	48X84
3002	STEEL	24	48X96
3011	STEEL	22	36X120
3012	STEEL	20	36X120
3110	STEEL	20	48X120
3111	STEEL	18	48X120
3112	STEEL	16	48X120

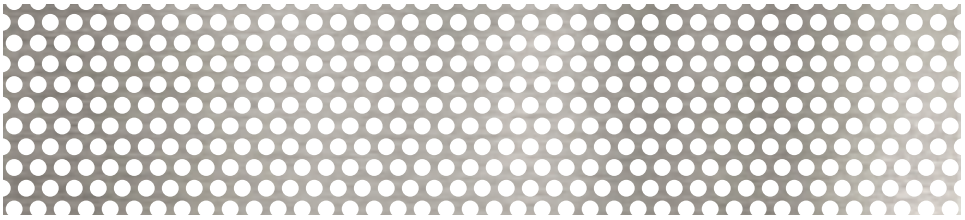


.075” Diameter .100”
Staggered Centers
116 Holes PSI
51% Open Area

Item No.	Material	Gauge	Sheet Size
3027	STEEL	20	36X120

AMICO now offers degreased stock perforated stainless steel out of select warehouses at no additional charge. Please contact your sales representative for details.

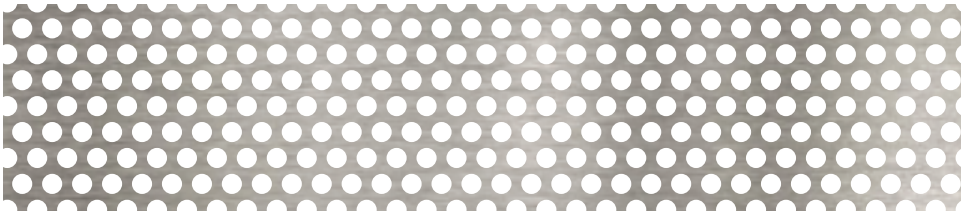
Perforated Metal



5/64” Diameter 1/8”
Staggered Centers
74 Holes PSI
35% Open Area

Item No.	Material	Gauge	Sheet Size
3312	ALU 5052-H32	.063	48X120
3662A	S/S T304-2B	20	48X120
3022	STEEL	20	36X120
3120	STEEL	20	48X120

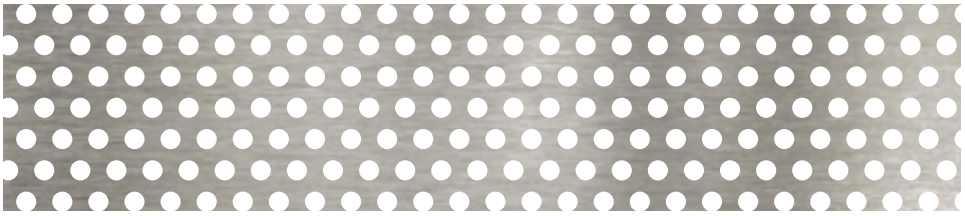
Item No.	Material	Gauge	Sheet Size
3121	STEEL	18	48X120
3122	STEEL	16	48X120
3123	STEEL	14	48X120



3/32” Diameter 5/32”
Staggered Centers
47 Holes PSI
33% Open Area

Item No.	Material	Gauge	Sheet Size
3832	ALU 5052-H32	.032	36X120
3833	ALU 5052-H32	.040	36X120
3835	ALU 5052-H32	.063	36X120
3641	S/S T304-2B	24	36X120
3643	S/S T304-2B	22	36X120
3645	S/S T304-2B	20	36X120
3647	S/S T304-2B	18	36X120

Item No.	Material	Gauge	Sheet Size
3648	S/S T304-2B	16	36X120
3649	S/S T304-2B	16	48X120
3131	STEEL	20	48X120
3132	STEEL	18	48X120
3034	STEEL	16	36X120
3133	STEEL	16	48X120

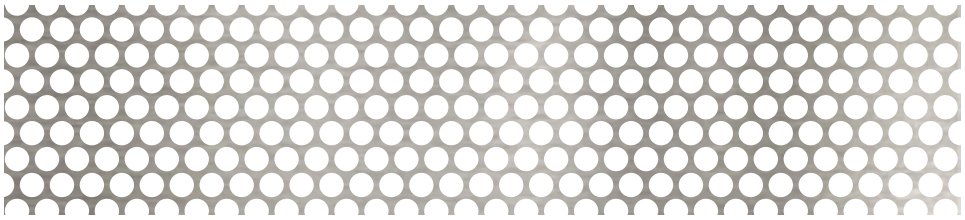


3/32” Diameter 3/16”
Staggered Centers
33 Holes PSI
23% Open Area

Item No.	Material	Gauge	Sheet Size
3819	GAL G90	22	48X120
3004	STEEL	24	36X84
3006	STEEL	24	48X84
3001	STEEL	24	48X96

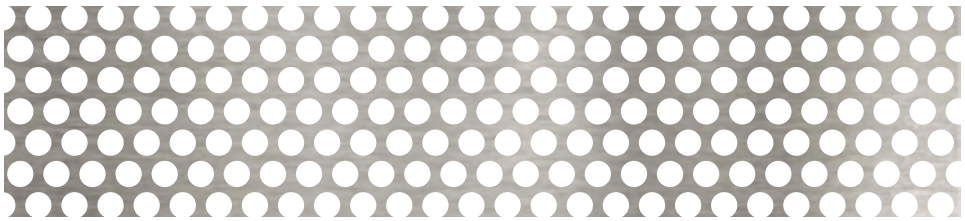
AMICO now offers degreased stock perforated stainless steel out of select warehouses at no additional charge.
Please contact your sales representative for details.

Perforated Metal



.117” Diameter 5/32”
Staggered Centers
47 Holes PSI
51% Open Area

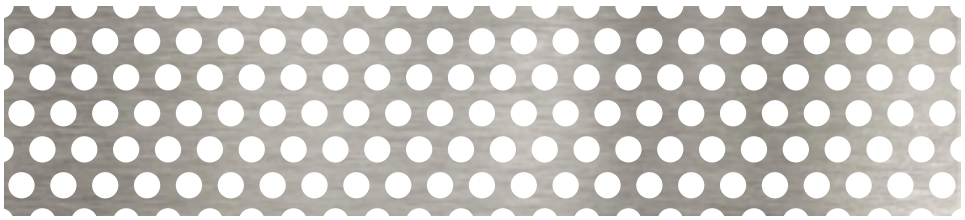
Item No.	Material	Gauge	Sheet Size
3036	STEEL	18	48X120



1/8” Diameter 3/16”
Staggered Centers
33 Holes PSI
41% Open Area

Item No.	Material	Gauge	Sheet Size
3842	ALU 5052-H32	.032	36X120
3843	ALU 5052-H32	.040	36X120
3303	ALU 5052-H32	.040	48X120
3844	ALU 5052-H32	.050	36X120
3864	ALU 5052-H32	.050	48X120
3845	ALU 5052-H32	.063	36X120
3315	ALU 5052-H32	.063	48X120
3821A	ALU 5052-H32	.125	48X120
3147	GAL G90	20	48X120
3653	S/S T304-2B	22	36X120
3654	S/S T304-2B	22	48X120
3655	S/S T304-2B	20	36X120
3652	S/S T304-2B	20	48X120
3656A	S/S T304-2B	18	36X120
3656	S/S T304-2B	18	48X120

Item No.	Material	Gauge	Sheet Size
3657	S/S T304-2B	16	36X120
3658	S/S T304-2B	16	48X120
3654A	S/S T304-2B	14	48X120
3682	S/S T304-2B	11	48X120
3640	S/S T316L	16	48X120
3039	STEEL	24	36X120
3047	STEEL	22	48X120
3041	STEEL	20	36X120
3141	STEEL	20	48X120
3042	STEEL	18	36X120
3142	STEEL	18	48X120
3043	STEEL	16	36X120
3143	STEEL	16	48X120
3144	STEEL	14	48X120
3146	STEEL	11	48X120

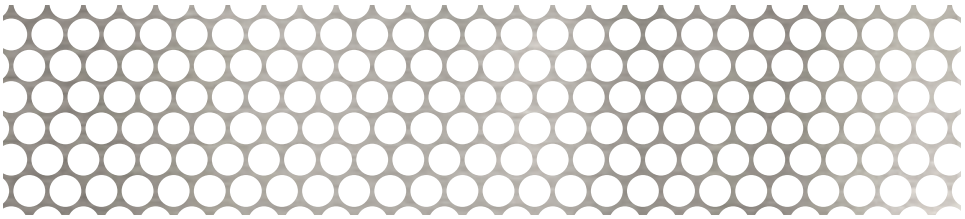


1/8” Diameter 7/32”
Staggered Centers
24 Holes PSI
31% Open Area

Item No.	Material	Gauge	Sheet Size
3145	STEEL	12	48X120

AMICO now offers degreased stock perforated stainless steel out of select warehouses at no additional charge. Please contact your sales representative for details.

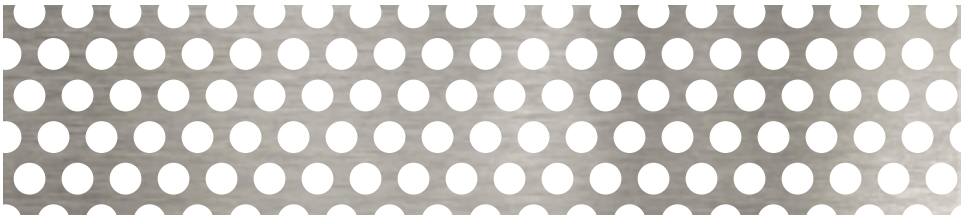
Perforated Metal



5/32” Diameter 3/16”
Staggered Centers
33 Holes PSI
63% Open Area

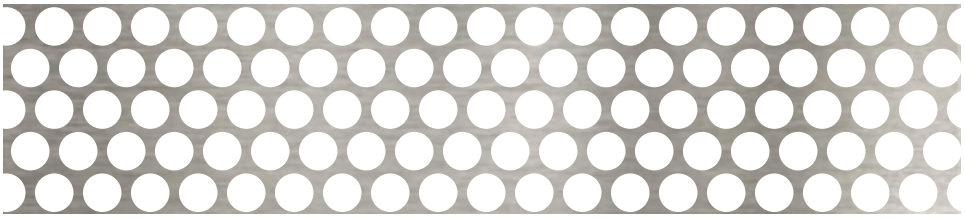
Item No.	Material	Gauge	Sheet Size
3849	ALU 5052-H32	.050	36X120
3148	ALU 5052-H32	.063	48X120
3606	S/S T304-2B	20	48X120
3660	S/S T304-2B	18	36X120
3608	S/S T304-2B	18	48X120
3628	S/S T304-2B	16	48X120
3050	STEEL	22	36X120

Item No.	Material	Gauge	Sheet Size
3051	STEEL	20	36X120
3151	STEEL	20	48X120
3052	STEEL	18	36X120
3151A	STEEL	18	48X120
3057	STEEL	16	36X120
3152	STEEL	16	48X120



5/32” Diameter 1/4”
Staggered Centers
19 Holes PSI
36% Open Area

Item No.	Material	Gauge	Sheet Size
3153	STEEL	10	48X120

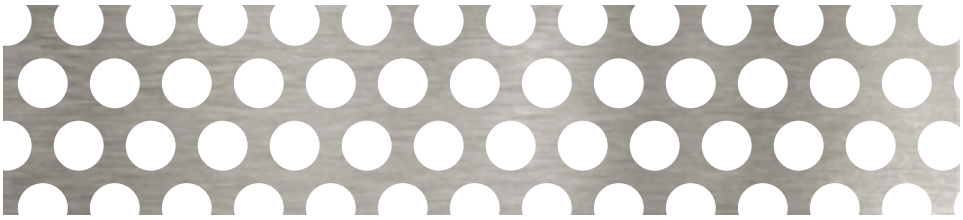


3/16” Diameter 1/4”
Staggered Centers
19 Holes PSI
53% Open Area

Item No.	Material	Gauge	Sheet Size
3851	ALU 5052-H32	.032	36X120
3301	ALU 5052-H32	.040	48X120
3854	ALU 5052-H32	.063	36X120
3314	ALU 5052-H32	.063	48X120
3415	GAL G90	18	48X120
3630A	S/S T304-2B	22	48X120
3664	S/S T304-2B	20	36X120
3669	S/S T304-2B	20	48X120
3666	S/S T304-2B	18	36X120
3665	S/S T304-2B	18	48X120
3667	S/S T304-2B	16	36X120
3668	S/S T304-2B	16	48X120

Item No.	Material	Gauge	Sheet Size
3634	S/S T304-2B	14	48X120
3642	S/S T316L	16	48X120
3087	STEEL	24	25X25
3060	STEEL	22	36X120
3077	STEEL	22	48X120
3161	STEEL	20	48X120
3062	STEEL	18	36X120
3162	STEEL	18	48X120
3063	STEEL	16	36X120
3163	STEEL	16	48X120
3164	STEEL	14	48X120
3165	STEEL	12	48X120

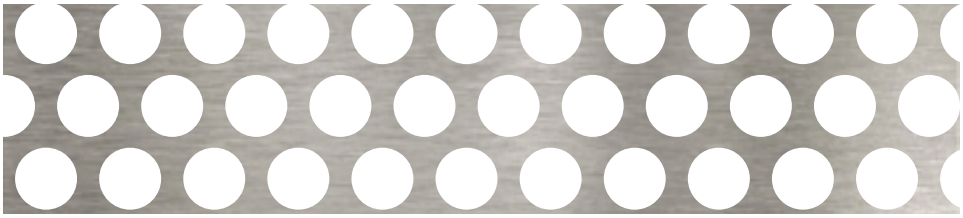
Perforated Metal



1/4” Diameter 3/8”
Staggered Centers
8 Holes PSI
40% Open Area

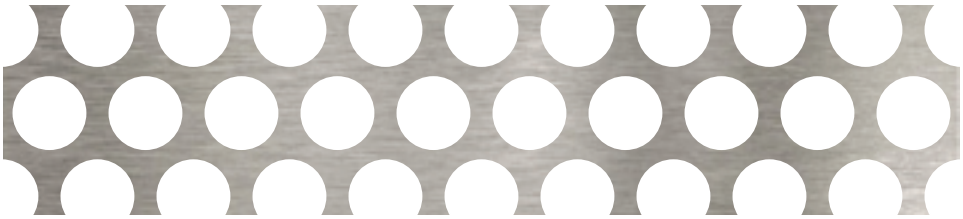
Item No.	Material	Gauge	Sheet Size
3814	ALU 5052-H32	.032	36X120
3345	ALU 5052-H32	.050	48X120
3305	ALU 5052-H32	.063	48X120
3859	ALU 5052-H32	.125	48X120
3671	S/S T304-2B	20	36X120
3672	S/S T304-2B	20	48X120
3683	S/S T304-2B	18	48X120
3673	S/S T304-2B	16	36X120
3674	S/S T304-2B	16	48X120
3679	S/S T304-2B	14	48X120

Item No.	Material	Gauge	Sheet Size
3688	S/S T304-2B	11	48X120
3644	S/S T316L	16	48X120
3171	STEEL	20	48X120
3124	STEEL	18	48X120
3173	STEEL	16	48X120
3175	STEEL	14	48X120
3053	STEEL	12	48X120
3019	STEEL	11	48X120
3176	STEEL	10	48X120
3178	STEEL	1/4	48X120



5/16” Diameter 7/16”
Staggered Centers
6 Holes PSI
46% Open Area

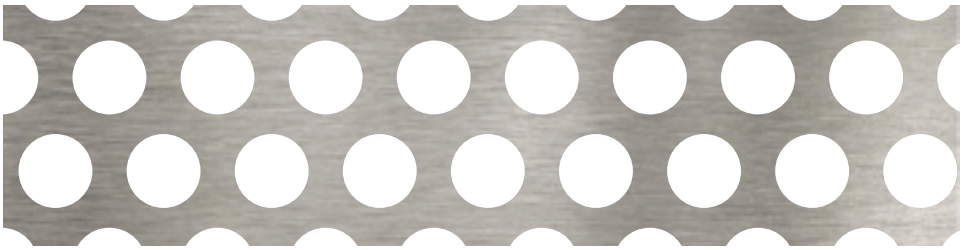
Item No.	Material	Gauge	Sheet Size
3283	STEEL	16	48X120
3049	STEEL	10	48X120
3183	STEEL	1/4	48X120



3/8” Diameter 1/2”
Staggered Centers
5 Holes PSI
51% Open Area

Item No.	Material	Gauge	Sheet Size
3014	STEEL	16	48X120

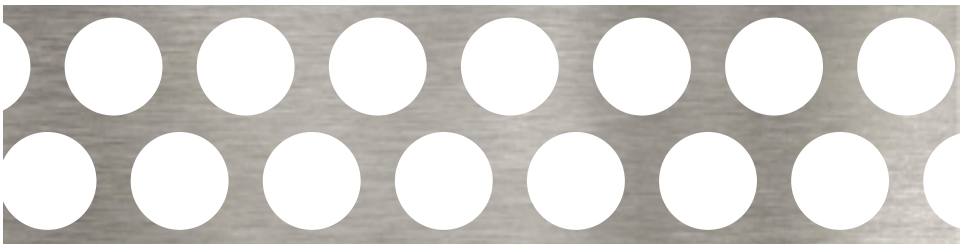
Perforated Metal



3/8” Diameter 9/16”
Staggered Centers
3.6 Holes PSI
40% Open Area

Item No.	Material	Gauge	Sheet Size
3867	ALU 5052-H32	.063	48X120
3866	ALU 5052-H32	.125	48X120
3625	S/S T304-2B	16	48X120
3289	S/S T304-2B	14	48X120
3191	STEEL	20	48X120
3192	STEEL	16	48X120

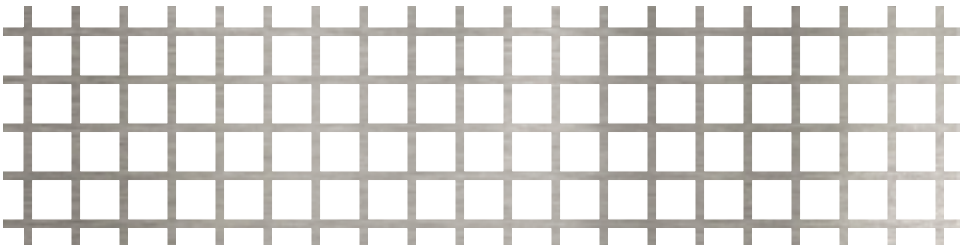
Item No.	Material	Gauge	Sheet Size
3185	STEEL	14	48X120
3196	STEEL	12	48X120
3084	STEEL	11	48X120
3193	STEEL	10	48X120
3194	STEEL	3/16	48X120
3195	STEEL	1/4	48X120



1/2” Diameter 11/16”
Staggered Centers
2.4 Holes PSI
48% Open Area

Item No.	Material	Gauge	Sheet Size
3836	ALU 5052-H32	.063	48X120
3306	ALU 5052-H32	.125	48X120
3677	S/S T304-2B	20	36X120
3678	S/S T304-2B	16	36X120
3275	S/S T304-2B	16	48X120
3689	S/S T304-2B	11	48X120
3201	STEEL	20	48X120

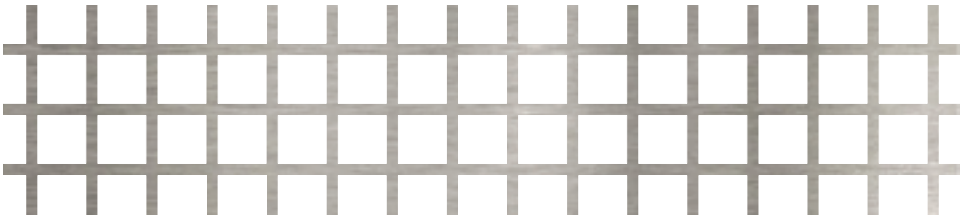
Item No.	Material	Gauge	Sheet Size
3202	STEEL	16	48X120
3239	STEEL	14	48X120
3196A	STEEL	11	48X120
3204	STEEL	10	48X120
3205	STEEL	3/16	48X120
3206	STEEL	1/4	48X120



.200” Square 1/4”
Straight Centers
20 Holes PSI
64% Open Area

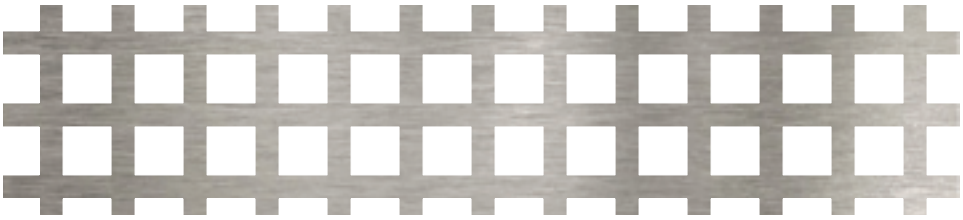
Item No.	Material	Gauge	Sheet Size
3751	ALU 5052-H32	.032	36X120
3701	STEEL	22	36X120
3702	STEEL	20	36X120

Perforated Metal



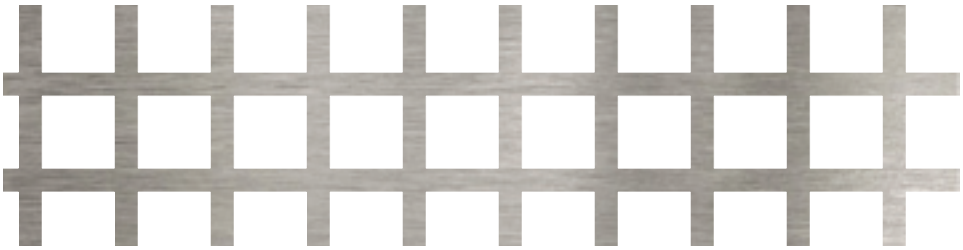
.250” Square 5/16” Straight Centers
13 Holes PSI
64% Open Area

Item No.	Material	Gauge	Sheet Size
3704A	STEEL	20	36X120



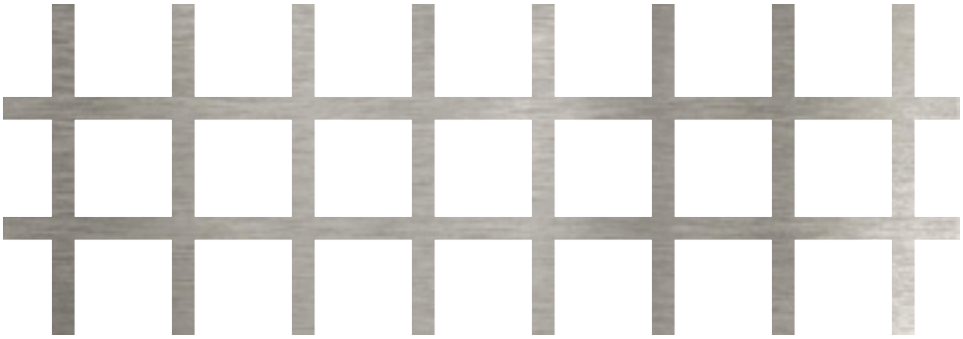
.250” Square 3/8” Straight Centers
9 Holes PSI
44% Open Area

Item No.	Material	Gauge	Sheet Size
3246	STEEL	16	48X120



.375” Square 1/2” Straight Centers
5 Holes PSI
56% Open Area

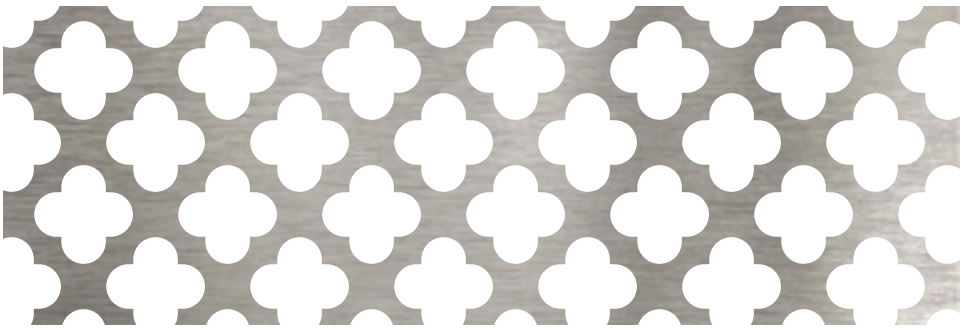
Item No.	Material	Gauge	Sheet Size
3725	STEEL	16	48X120



.500” Square 5/8” Straight Centers
3.3 Holes PSI
64% Open Area

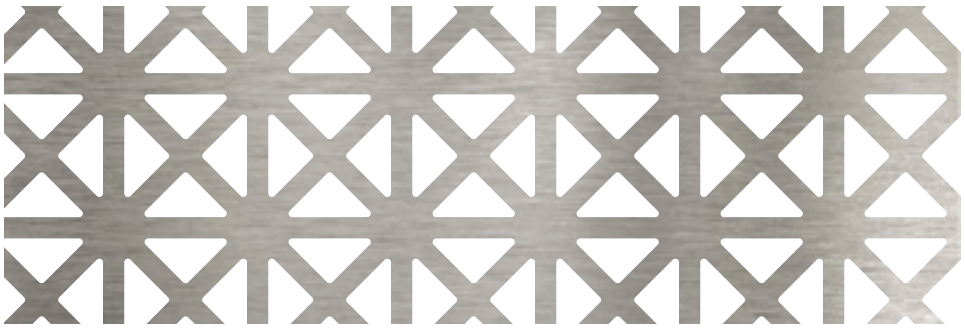
Item No.	Material	Gauge	Sheet Size
3709	STEEL	16	48X120

Perforated Metal



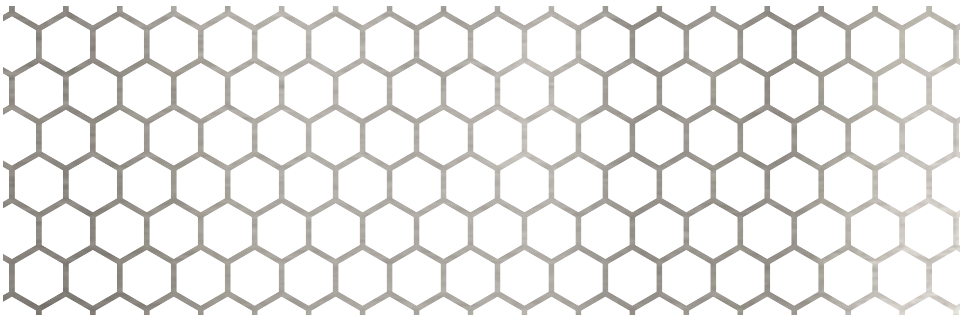
R-28 Cloverleaf
50% Open Area

Item No.	Material	Gauge	Sheet Size
3505	STEEL	22	36X120



R-20 Grecian
35% Open Area

Item No.	Material	Gauge	Sheet Size
3552	ALU 5052-H32	.032	36X120
3502	STEEL	22	36X120

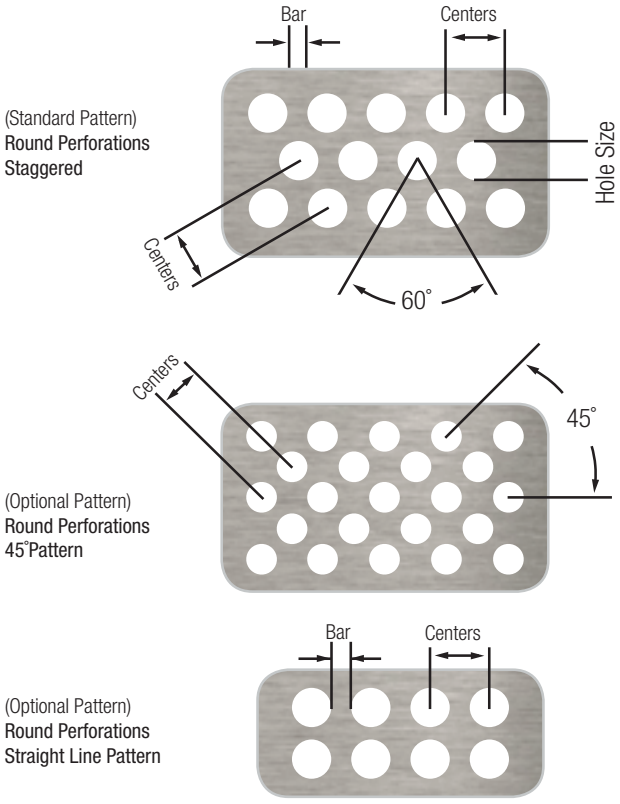


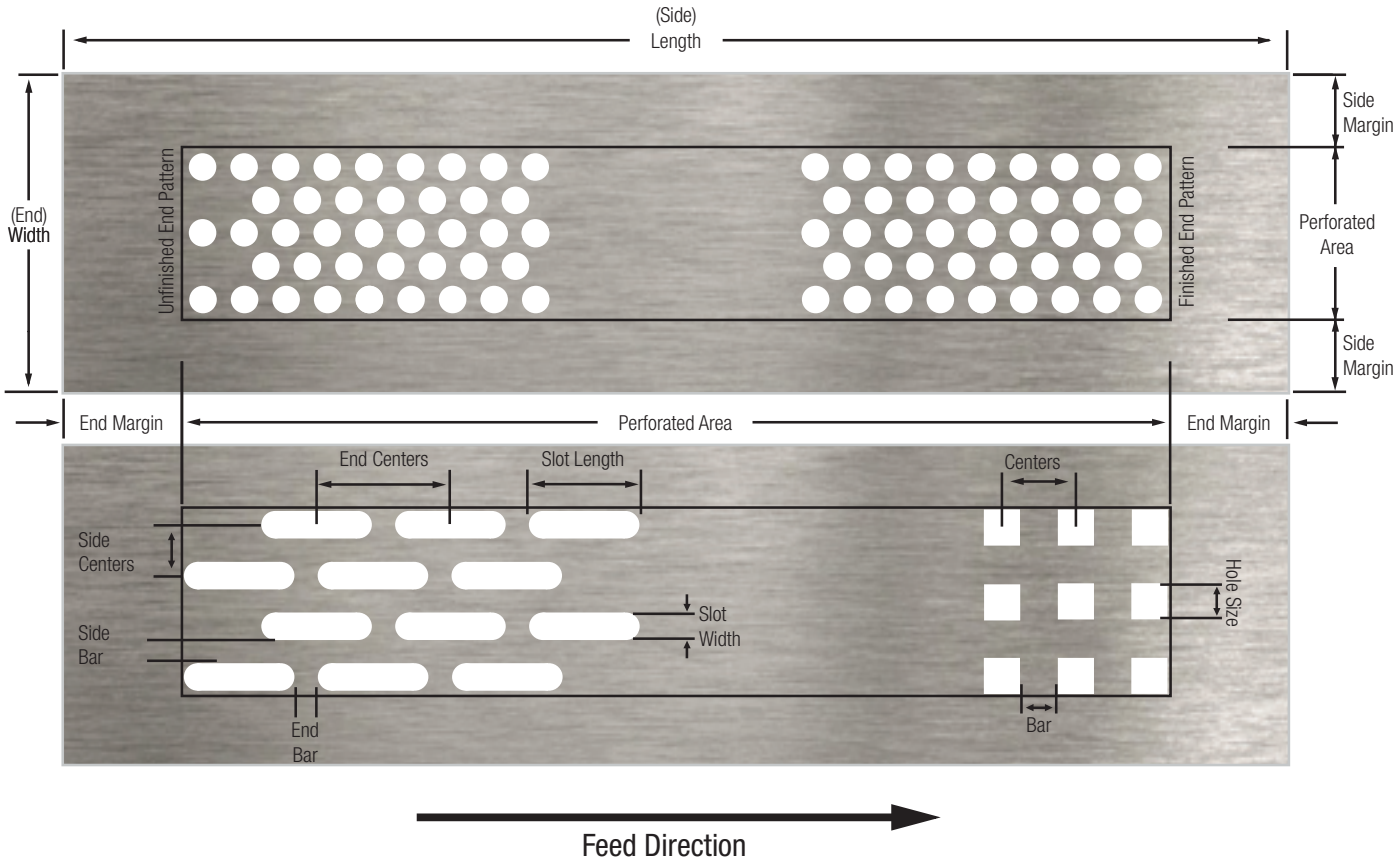
R-40 Hexagon 1/4”
79% Open Area

Item No.	Material	Gauge	Sheet Size
3557	ALU 5052-H32	.032	36X120
3507	STEEL	22	36X120

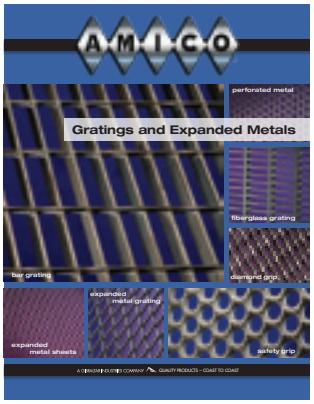
Perforated Metal Specification Instructions

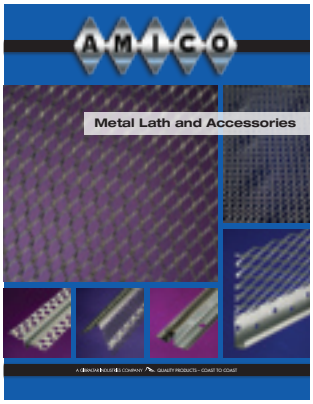
1. Specify quantity and dimensions of sheets, pieces, -or panels.
2. Indicate gauge and kind of material. If in doubt, specify thickness in decimals.
3. Size, shape, arrangement, and center of holes. If slotted are selected, specify whether they are to run lengthwise or crosswise of the sheets.
4. Specify widths of all margins.
5. If mounting holes are to be used, give size of holes, shape of holes and locations on margin.
6. Indicate any special packaging or shipping instructions.
7. When custom panels, screens, or other non-standard items are required, send exact specifications or contact us.
8. For clarification, submit a pdf or file.

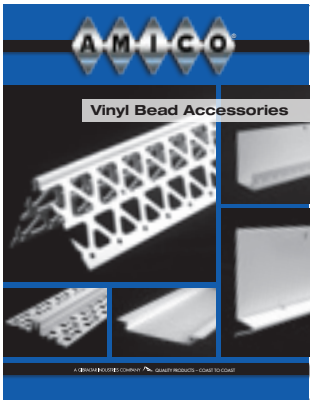


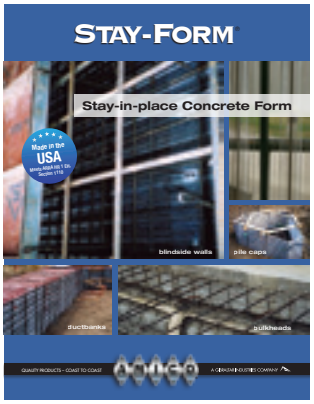


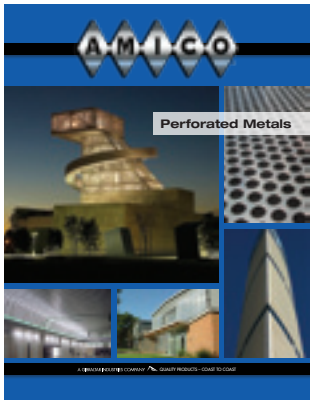
To learn more about AMICO's other products, please visit http://www.amico-online.com/literature.htm

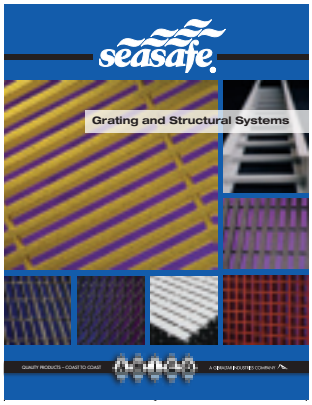


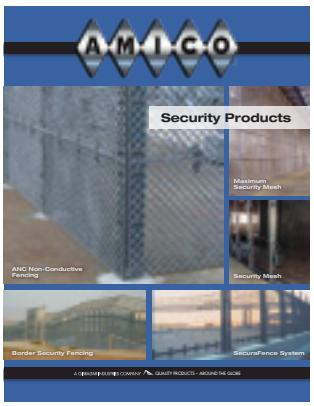


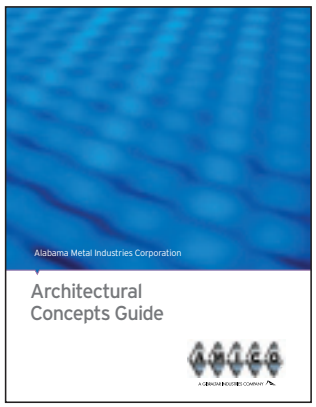












QUALITY PRODUCTS – AROUND THE GLOBE

AMICO

A GIBRALTAR INDUSTRIES COMPANY

ALABAMA METAL INDUSTRIES CORPORATION

3245 Fayette Avenue • Birmingham, AL 35208

Phone (205) 787-2611 • (800) 366-2642 • Fax (205) 786-6527

www.amico-fabricatedproducts.com

UNITED STATES

Birmingham, AL
800-366-2642

Charlotte, NC
800-438-4467

Chicago, IL
800-238-0322

Dayton, TX
800-622-5765

Denver, CO
800-425-5558

Fontana, CA
800-962-0100

Houston, TX
800-433-9945

Lafayette, LA
800-326-8842

Lakeland, FL
800-487-2511

Orem, UT
800-645-0340

Rochester, NY
800-627-4700

Seattle, WA
800-859-5363

Visalia, CA
800-642-4334

Wilmington, DE
800-476-4430

CANADA

Burlington, ON
800-663-4474

Edmonton, AB
855-724-7283

Montreal, QC
800-463-3255

Vancouver, BC
800-665-4474

UNITED KINGDOM

Hartlepool, England
+44 (0) 1429 867 388

GERMANY

Hannover
+49 (5 11) 67 67 56-0

email:
sales@amico-online.com

NAAMM National Association of Architectural Metal Manufacturers MEMBER

CSI

ACMA AMERICAN COMPOSITES MANUFACTURERS ASSOCIATION

U.S. GREEN BUILDING COUNCIL MEMBER

AMICO reserves the right to improve or otherwise change a product design without notice. This catalog is effective 1/1/14 and supersedes all previous information and publications.

QUALITY PRODUCTS – AROUND THE GLOBE

AMICO

A GIBRALTAR INDUSTRIES COMPANY

1/1/14-2,500