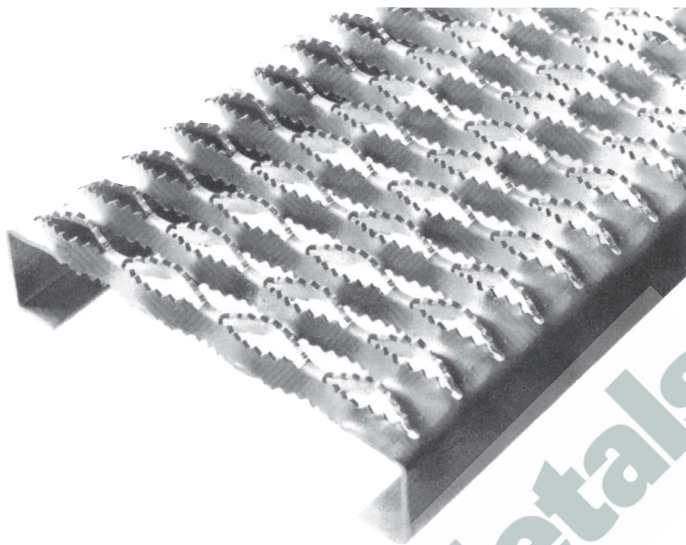


BAR, SAFETY AND FIBERGLASS GRATING

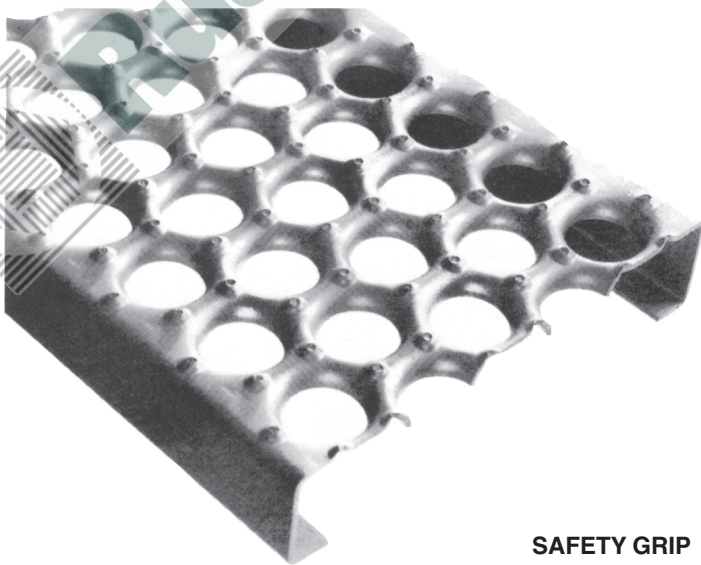
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Russel Metals



DIAMOND GRIP

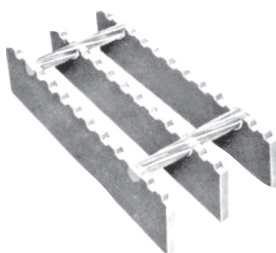


SAFETY GRIP

OPEN STEEL FLOOR GRATING



Smooth-surface grating

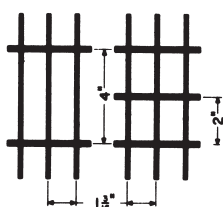


Serrated-surface safety grating

Grating available in Carbon Steel, Aluminum & Stainless

STANDARD MESH TYPES

TYPE 19-W-4 TYPE 19-W-2

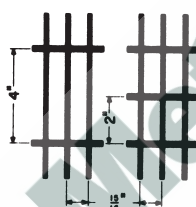


CROSS BARS C to C

BEARING BARS C to C

CLOSE MESH TYPES

TYPE 15-W-4 TYPE 15-W-2



Maximum Width of Panels 3'0"

WEIGHT IN LBS. PER SQ. FT.

Bearing Bars	Type 19-W-4	Type 19-W-2	Type 15-W-4	Type 15-W-2
$\frac{3}{4} \times \frac{1}{8}$	4.0	4.6	4.8	5.5
$\frac{3}{4} \times \frac{3}{16}$	5.6	6.3	6.9	7.5
1 $\times \frac{1}{8}$	5.1	5.7	6.2	6.9
1 $\times \frac{3}{16}$	7.3	8.0	9.0	9.6
$1\frac{1}{4} \times \frac{1}{8}$	6.1	6.8	7.5	8.2
$1\frac{1}{4} \times \frac{3}{16}$	8.9	9.6	11.1	11.7
$1\frac{1}{2} \times \frac{1}{8}$	7.3	7.9	9.0	9.6
$1\frac{1}{2} \times \frac{3}{16}$	10.6	11.2	13.1	13.8
$1\frac{3}{4} \times \frac{3}{16}$	12.2	12.9	15.2	15.8
2 $\times \frac{3}{16}$	13.9	14.5	17.3	17.9
$2\frac{1}{4} \times \frac{3}{16}$	15.4	16.1	19.2	19.9
$2\frac{1}{2} \times \frac{3}{16}$	17.1	17.7	21.3	22.0

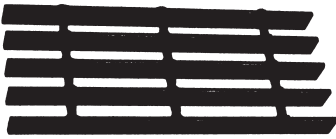
Other Sizes Cut To Your Specifications

When ordering GRATING, specify:

- Type of GRATING
- Size of BEARING BARS (DEPTH & WIDTH)
- Span (direction of bearing bars)
- Dimensions of area
- Painted or Galvanized, Smooth or Serrated

WELDED BAR GRATING

STANDARD



SERRATED

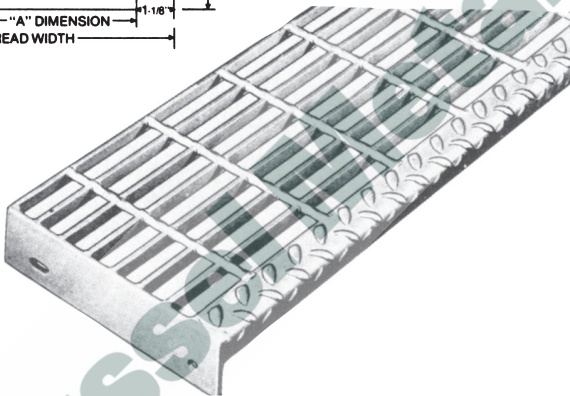
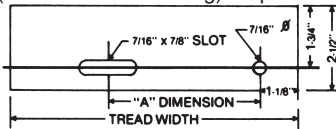


STAIRTREADS

Stairtreads come complete with a carrier plate each end and checker plate nosing to ensure maximum visibility.

END PLATE DETAIL

(1 and 1-1/4" Bar Grating) Inquire for details on other sizes.

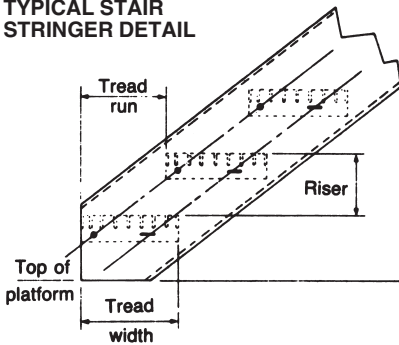


Tread Width	Number of Bearing Bars	"A" Dimension
6 7/16"	5	2 1/2"
7 7/8"	6	4 1/2"
8 9/16"	7	4 1/2"
9 3/4"	8	7"
10 15/16"	9	7"
12 1/8"	10	7"

RECOMMENDED BEARING BAR SIZES

Maximum Length of Tread	Bearing Bars Size
2'2"	3/4" X 3/16"
3'0"	1" X 3/16"
4'0"	1 1/4" X 3/16"
5'3"	1 1/2" X 3/16"

TYPICAL STAIR STRINGER DETAIL



WELDED BAR GRATING IMPERIAL

W19-4

Stock mat – nominal 3'0" x 24'0"

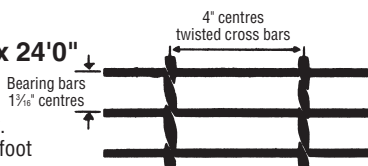
TABLE OF SAFE LOADS

U – Safe Uniform Load, in lbs. per sq.ft.

C – Safe Concentrated Load in lbs. per foot
of grating width.

D – Deflection in inches.

Loads and deflections given in this table are theoretical and are based on a maximum allowable fibre stress of 18,000 P.S.I.



Size of Bearing Bar	Approximate Weight per Square Foot		2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
3/4" x 1/8"	3.93	U	386	247	172	126	96	76
		D	.095	.151	.216	.295	.374	.486
		C	386	308	258	220	194	171
		D	.076	.119	.173	.234	.308	.389
3/4" x 3/16"	5.58	U	578	370	258	188	144	115
		D	.095	.151	.216	.295	.374	.486
		C	578	462	386	331	289	257
		D	.076	.119	.173	.234	.308	.389
1" x 1/8"	5.03	U	686	439	304	224	171	135
		D	.072	.111	.159	.219	.288	.366
		C	686	549	457	392	343	305
		D	.057	.090	.129	.176	.231	.293
1" x 3/16"	7.23	U	1029	659	459	338	257	203
		D	.072	.111	.159	.219	.288	.366
		C	1029	824	686	587	514	458
		D	.057	.090	.129	.176	.231	.293
1 1/4" x 1/8"	6.12	U	1072	686	476	350	268	212
		D	.057	.090	.129	.176	.231	.291
		C	1072	858	716	613	536	477
		D	.046	.072	.104	.141	.183	.233
1 1/4" x 3/16"	8.87	U	1608	1028	716	526	403	318
		D	.057	.090	.129	.176	.231	.291
		C	1608	1285	1073	918	803	716
		D	.046	.072	.104	.141	.183	.233
1 1/2" x 1/8"	7.23	U	1544	987	686	505	387	306
		D	.047	.075	.106	.147	.192	.243
		C	1544	1235	1029	883	772	687
		D	.038	.059	.087	.117	.154	.195
1 1/2" x 3/16"	10.51	U	2321	1485	1031	758	581	458
		D	.047	.075	.106	.147	.192	.243
		C	2321	1856	1547	1325	1159	1031
		D	.038	.059	.087	.117	.154	.195
1 3/4" x 3/16"	12.17	U	3151	2016	1401	1029	788	622
		D	.042	.064	.092	.126	.165	.208
		C	3151	2521	2100	1800	1575	1400
		D	.033	.052	.074	.101	.132	.167
2" x 3/16"	13.81	U	4116	2633	1829	1344	1029	813
		D	.036	.056	.081	.111	.144	.183
		C	4116	3292	2745	2351	2058	1828
		D	.029	.045	.064	.088	.115	.145
2 1/4" x 3/16"	15.45	U	5209	3332	2314	1670	1302	1028
		D	.032	.050	.072	.098	.127	.162
		C	5209	4167	3473	2916	2604	2314
		D	.026	.039	.057	.079	.102	.129
2 1/2" x 3/16"	17.11	U	6432	4115	2858	2099	1609	1291
		D	.028	.044	.064	.088	.116	.145
		C	6432	5147	4286	3673	3214	2858
		D	.023	.036	.051	.071	.092	.116

Cont'd

WELDED BAR GRATING (Cont'd)
IMPERIAL

W19-4

Stock mat – nominal 3'0" x 24'0"

TABLE OF SAFE LOADS

U – Safe Uniform Load, in lbs. per sq.ft.
C – Safe Concentrated Load in lbs. per foot
of grating width.
D – Deflection in inches.

Loads and deflections given in this table are theoretical and are based on a maximum allowable fibre stress of 18,000 P.S.I.

	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	Size of Bearing Bar	Approximate Weight per Square Foot
	<p>NOTE: Spans and loads to the right of the heavy line exceed a deflection of ¼" for uniform loads of 100 pounds per square foot. Experience has shown that ¼" deflection is the maximum deflection for pedestrian comfort, but can be exceeded for other types of loads at the discretion of the engineer.</p> <p>For serrated surface, increase depth by one size.</p>					¾" x ⅛"	3.93
						¾" x ⅜"	5.58
U D	109 .451	91 .547	76 .673			1" x ⅛"	5.03
C D	275 .360	250 .434	228 .518			1" x ⅜"	7.23
U D	164 .451	135 .547	114 .673			1" x ⅜"	7.23
C D	412 .360	375 .434	343 .518			1" x ⅜"	7.23
U D	172 .358	142 .433	119 .520	101 .608	87 .704	1¼" x ⅛"	6.12
C D	430 .288	390 .349	358 .416	330 .487	306 .565	1¼" x ⅛"	6.12
U D	258 .358	213 .433	179 .520	152 .608	131 .704	1¼" x ⅜"	8.87
C D	644 .288	585 .349	536 .416	495 .487	459 .565	1¼" x ⅜"	8.87
U D	248 .300	205 .365	172 .433	149 .506	128 .587	1½" x ⅛"	7.23
C D	619 .241	563 .289	515 .347	475 .406	441 .470	1½" x ⅛"	7.23
U D	371 .300	307 .365	260 .433	222 .506	191 .587	1½" x ⅜"	10.51
C D	928 .241	844 .289	773 .347	714 .406	663 .470	1½" x ⅜"	10.51
U D	505 .258	416 .310	351 .371	299 .435	259 .506	1¾" x ⅜"	12.17
C D	1260 .206	1145 .249	1049 .297	969 .347	899 .403	1¾" x ⅜"	12.17
U D	659 .226	546 .273	460 .325	393 .384	339 .447	2" x ⅜"	13.81
C D	1646 .180	1496 .217	1370 .259	1266 .303	1175 .353	2" x ⅜"	13.81
U D	835 .199	689 .241	583 .287	496 .338	428 .393	2¼" x ⅜"	15.45
C D	2082 .160	1892 .194	1733 .230	1601 .270	1487 .314	2¼" x ⅜"	15.45
U D	1029 .180	850 .217	720 .260	613 .305	529 .354	2½" x ⅜"	17.11
C D	2571 .144	2338 .173	2141 .207	1977 .242	1836 .282	2½" x ⅜"	17.11

WELDED BAR GRATING METRIC

W102-30

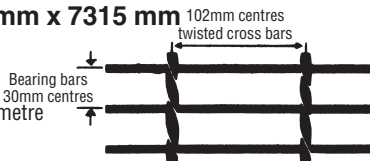
Stock mat – nominal 915 mm x 7315 mm

TABLE OF SAFE LOADS

U – Safe Uniform Load, in KPa

C – Safe Concentrated Load in KN per metre of width.

D – Deflection in mm.



Loads and deflections given in this table are theoretical and are based on a maximum allowable fibre stress of 124.0 MPa

SPAN IN MILLIMETRES

Size of Bearing Bar	Approximate Weight per Kg/m ²		610	762	915	1067	1219	1372
19 x 3.2	19.2	U	18.50	11.84	8.24	6.04	4.60	3.64
		D	2.4	3.8	5.5	7.5	9.5	12.3
		C	5.63	4.49	3.77	3.21	2.83	2.50
		D	1.9	3.0	4.4	5.9	7.8	9.9
19 x 4.8	27.2	U	27.70	17.73	12.36	9.00	6.90	5.51
		D	2.4	3.8	5.5	7.5	9.5	12.3
		C	8.44	6.74	5.63	4.83	4.22	3.75
		D	1.9	3.0	4.4	5.9	7.8	9.9
25 x 3.2	24.6	U	32.87	21.04	14.57	10.73	8.19	6.47
		D	1.8	2.8	4.0	5.6	7.3	9.3
		C	10.01	8.01	6.67	5.72	5.01	4.45
		D	1.4	2.3	3.3	4.5	5.9	7.4
25 x 4.8	35.3	U	49.31	31.58	21.99	16.20	12.31	9.73
		D	1.8	2.8	4.0	5.6	7.3	9.3
		C	15.02	12.03	10.01	8.57	7.50	6.68
		D	1.4	2.3	3.3	4.5	5.9	7.4
32 x 3.2	29.9	U	51.37	32.87	22.81	16.77	12.84	10.16
		D	1.4	2.3	3.3	4.5	5.9	7.4
		C	15.64	12.52	10.45	8.95	7.82	6.96
		D	1.2	1.8	2.6	3.6	4.6	5.9
32 x 4.8	43.3	U	77.05	49.26	34.31	25.20	19.31	15.24
		D	1.4	2.3	3.3	4.5	5.9	7.4
		C	23.47	18.75	15.66	13.40	11.72	10.45
		D	1.2	1.8	2.6	3.6	4.6	5.9
38 x 3.2	35.3	U	73.98	47.29	32.87	24.20	18.54	14.66
		D	1.2	1.9	2.7	3.7	4.9	6.2
		C	22.54	18.02	15.02	12.89	11.27	10.03
		D	1.0	1.5	2.2	3.0	3.9	5.0
38 x 4.8	51.3	U	111.21	71.16	49.40	36.32	27.84	21.95
		D	1.2	1.9	2.7	3.7	4.9	6.2
		C	33.87	27.09	22.58	19.34	16.91	15.05
		D	1.0	1.5	2.2	3.0	3.9	5.0
45 x 4.8	59.4	U	150.99	96.60	67.13	49.31	37.76	29.80
		D	1.1	1.6	2.3	3.2	4.2	5.3
		C	45.99	36.79	30.65	26.27	22.99	20.43
		D	0.8	1.3	1.9	2.6	3.4	4.2
51 x 4.8	67.4	U	197.22	126.16	87.64	64.40	49.31	38.96
		D	0.9	1.4	2.1	2.8	3.7	4.6
		C	60.07	48.04	40.06	34.31	30.03	26.68
		D	0.7	1.1	1.6	2.2	2.9	3.7
57 x 4.8	75.4	U	249.60	159.66	110.88	80.02	62.39	49.26
		D	0.8	1.3	1.8	2.5	3.2	4.1
		C	76.02	60.81	50.68	42.56	38.00	33.77
		D	0.7	1.0	1.4	2.0	2.6	3.3
64 x 4.8	83.5	U	308.20	197.18	136.95	100.58	77.10	61.86
		D	0.7	1.1	1.6	2.2	2.9	3.7
		C	93.87	75.11	62.55	53.60	46.90	41.71
		D	0.6	0.9	1.3	1.8	2.3	2.9

NOTE: 1 KPa = 101.89 Kg/m²

Cont'd

WELDED BAR GRATING (Cont'd)

METRIC

W102-30

Stock mat – nominal 915 mm x 7315 mm

TABLE OF SAFE LOADS

U – Safe Uniform Load, in KPa

C – Safe Concentrated Load in KN per metre of width.

D – Deflection in mm.

Loads and deflections given in this table are theoretical and are based on a maximum allowable fibre stress of 124.0 MPa

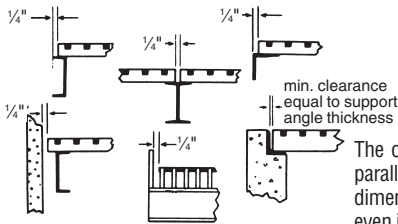
SPAN IN MILLIMETRES

	1524	1676	1829	1981	2133	Size of Bearing Bar	Approx. weight per Kg/m ²
	NOTE: Spans and loads to the right of the heavy line exceed a deflection of 6mm for uniform loads of 5 KPa. Experience has shown that 6mm deflection is the maximum deflection for pedestrian comfort, but can be exceeded for other types of loads at the discretion of the engineer.					19 x 3.2	19.2
						19 x 4.8	27.2
U	5.22	4.36	3.64	For serrated surface, increase depth by one size.		25 x 3.2	24.6
D	11.5	13.9	17.1				
C	4.01	3.65	3.33			25 x 4.8	35.3
D	9.10	11.0	13.2				
U	7.86	6.47	5.46			32 x 3.2	29.9
D	11.5	13.9	17.1				
C	6.01	5.47	5.01			32 x 4.8	43.3
D	9.1	11.0	13.2				
U	8.24	6.80	5.70	4.84	4.17	38 x 3.2	35.3
D	9.1	11.0	13.2	15.4	17.9		
C	6.28	5.69	5.22	4.82	4.47	38 x 4.8	51.3
D	7.3	8.9	10.6	12.4	14.4		
U	12.36	10.21	8.58	7.28	6.28	45 x 4.8	59.4
D	9.1	11.0	13.2	15.4	17.9		
C	9.40	8.54	7.82	7.22	6.70	51 x 4.8	67.4
D	7.3	8.9	10.6	12.4	14.4		
U	11.88	9.82	8.24	7.14	6.13	57 x 4.8	75.4
D	7.6	9.3	11.0	12.9	14.9		
C	9.03	8.22	7.52	6.93	6.44	64 x 4.8	83.5
D	6.1	7.3	8.8	10.3	11.9		
U	17.78	14.71	12.46	10.64	9.15		
D	7.6	9.3	11.0	12.9	14.9		
C	13.54	12.32	11.28	10.42	9.68		
D	6.1	7.3	8.8	10.3	11.9		
U	24.20	19.93	16.82	14.33	12.41		
D	6.6	7.9	9.4	11.0	12.9		
C	18.39	16.71	15.31	14.14	13.12		
D	5.2	6.3	7.5	8.8	10.2		
U	31.58	26.16	22.04	18.83	16.24		
D	5.7	6.9	8.3	9.8	11.4		
C	24.02	21.83	19.99	18.48	17.15		
D	4.6	5.5	6.6	7.7	9.0		
U	40.01	33.01	27.94	23.77	20.51		
D	5.1	6.1	7.3	8.6	10.0		
C	30.38	27.61	25.29	23.36	21.70		
D	4.1	4.9	5.8	6.9	8.0		
U	49.31	40.73	34.50	29.37	25.35		
D	4.6	5.5	6.6	7.7	9.0		
C	37.52	34.12	31.24	28.85	26.79		
D	3.7	4.4	5.3	6.1	7.2		

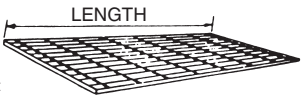
NOTE: 1 KPa = 101.89 Kg/m²

WELDED BAR GRATING

CLEARANCES



LENGTH OR SPAN



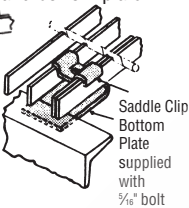
The overall dimension of a flooring panel parallel with the load bearing bars. This dimension is always referred to as 'length', even if it is shorter than the width.

INSTALLATION

Saddle Clip Complete Assembly – consists of saddle clip, $\frac{5}{16}"$ bolt, nut and bottom plate.

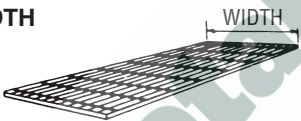


Field Welding – the most positive means of fastening grating to supporting members



Saddle Clip – for removable panels

WIDTH



The overall dimension of a flooring panel measured at right angles to the load bearing bars. This dimension is always referred to as 'width', even if it exceeds the length. (Standard widths are multiples of Bearing Bar Centres plus Bearing Bar Width).

THEORETICAL PANEL WIDTH IN INCHES (For $\frac{3}{16}"$ Bearing Bar)

Number of Bars	2	3	4	5	6
Standard W-19	$1\frac{3}{8}"$	$2\frac{9}{16}"$	$3\frac{3}{4}"$	$4\frac{15}{16}"$	$6\frac{1}{8}"$
Number of Bars	12	13	14	15	16
Standard W-19	$13\frac{1}{4}"$	$14\frac{7}{16}"$	$15\frac{5}{8}"$	$16\frac{13}{16}"$	$18"$
Number of Bars	22	23	24	25	26
Standard W-19	$25\frac{1}{8}"$	$26\frac{5}{16}"$	$27\frac{1}{2}"$	$28\frac{11}{16}"$	$29\frac{7}{8}"$

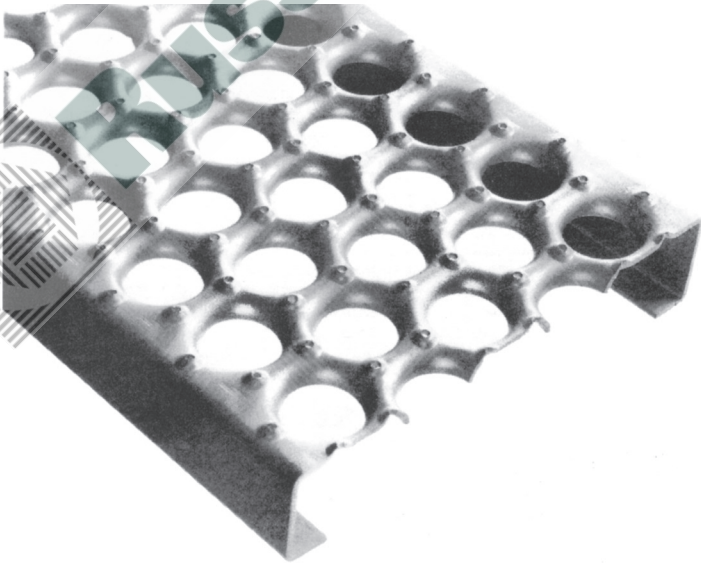
Number of Bars	7	8	9	10	11
Standard W-19	$7\frac{5}{16}"$	$8\frac{1}{2}"$	$9\frac{3}{4}"$	$10\frac{7}{8}"$	$12\frac{1}{16}"$
Number of Bars	17	18	19	20	21
Standard W-19	$19\frac{3}{16}"$	$20\frac{3}{8}"$	$21\frac{1}{16}"$	$22\frac{3}{4}"$	$23\frac{15}{16}"$
Number of Bars	27	28	29	30	31
Standard W-19	$31\frac{1}{16}"$	$32\frac{1}{4}"$	$33\frac{7}{16}"$	$34\frac{5}{8}"$	$35\frac{13}{16}"$

SAFETY GRATING

DIAMOND GRIP



SAFETY GRIP



5" wide SAFETY-GRIP® Channel 2 Hole

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 13 gauge 2.2 mm	1½ (38.1)	S2153	2.6 (3.8)	U	1947	1248	868	639	490	
				D	0.06	0.10	0.14	0.19	0.25	
				C	811	650	542	466	408	
				D	0.05	0.08	0.11	0.15	0.20	
	2 (50.8)	S2203	2.8 (4.2)	U	2943	1885	1311	964	739	
				D	0.05	0.08	0.11	0.16	0.20	
				C	973	973	819	703	616	
				D	0.03	0.06	0.09	0.12	0.16	
Alum .125" 3.2 mm	2 (50.8)	S2208A	1.3 (1.9)	U	2479	1587	1102	809	620	
				D	0.08	0.12	0.17	0.24	0.31	
				C	1033	826	689	590	516	
				D	0.06	0.10	0.14	0.19	0.25	
Stainless Steel 16 gauge 1.6 mm	2 (50.8)	S2206S	2.1 (3.1)	U	2801	1793	1244	915	700	
				D	0.04	0.06	0.09	0.12	0.16	
				C	1167	933	778	666	583	
				D	0.03	0.05	0.07	0.10	0.13	
Stainless Steel 14 gauge 1.8 mm	2 (50.8)	S2204S	2.5 (3.1)	U	3295	2109	1464	1076	824	
				D	0.05	0.07	0.11	0.15	0.19	
				C	1373	1098	915	784	686	
				D	0.04	0.06	0.09	0.12	0.15	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$
Cont'd

5" wide SAFETY-GRIP® Channel (Cont'd)

Safe Load And Deflection Data													
Clear Span													
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)	
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658		
388	315	261	220	188	163	142	126					1½	
0.32	0.39	0.48	0.57	0.67	0.78	0.90	1.03						
364	328	299	275	255	237	222	209					(38.1)	
0.25	0.31	0.38	0.46	0.54	0.62	0.72	0.82						
585	475	393	331	283	245	214	188	150	122	102	86	2	
0.26	0.32	0.39	0.46	0.54	0.63	0.73	0.83	1.05	1.31	1.60	1.92		
549	495	451	414	383	357	334	314	281	255	233	216	(50.8)	
0.21	0.25	0.31	0.37	0.43	0.50	0.58	0.66	0.84	1.05	1.28	1.54		
490	397	328	275									2	
0.39	0.49	0.59	0.70										
459	413	379	344									5052H32	
0.32	0.39	0.47	0.56									(50.8)	
553	448	371	311	265								2	
0.20	0.25	0.31	0.36	0.43									
519	467	424	389	359								304 2B	
0.16	0.20	0.24	0.29	0.34								(50.8)	
651	527	436	366	312	269	234						2	
0.24	0.30	0.36	0.43	0.50	0.58	0.67							
610	549	499	458	422	392	366						316 2B	
0.19	0.24	0.29	0.34	0.40	0.47	0.53						(50.8)	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

4¾" wide DIAMOND-GRIP® Channel 2 Diamond

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 14 gauge 1.8 mm	1½ (38.1)	D2154	2.3 (3.4)	U	1516	970	674	495	379	
				D	0.09	0.13	0.19	0.25	0.32	
				C	600	480	400	343	300	
				D	0.06	0.10	0.15	0.21	0.26	
	2 (50.8)	D2204	2.5 (3.7)	U	2236	1431	994	730	559	
				D	0.06	0.08	0.13	0.17	0.22	
				C	885	708	590	506	443	
				D	0.06	0.07	0.10	0.14	0.17	
	2½ (63.5)	D2254	2.9 (4.3)	U	3024	1935	1344	987	756	
				D	0.05	0.07	0.09	0.13	0.16	
				C	1197	958	795	684	598	
				D	0.04	0.05	0.07	0.10	0.13	
Steel 12 gauge 2.7 mm	1½ (38.1)	D2152	3.0 (4.5)	U	1790	1147	798	587	451	
				D	0.07	0.10	0.15	0.20	0.27	
				C	708	568	474	407	357	
				D	0.05	0.08	0.12	0.16	0.21	
	2 (50.8)	D2202	3.3 (4.9)	U	2255	1445	1005	739	567	
				D	0.05	0.07	0.10	0.14	0.19	
				C	892	715	597	512	449	
				D	0.04	0.06	0.08	0.11	0.15	
	2½ (63.5)	D2252	4.0 (5.9)	U	3755	2405	1672	1230	943	
				D	0.04	0.06	0.09	0.13	0.17	
				C	1486	1190	993	852	746	
				D	0.03	0.05	0.07	0.10	0.13	
Alum .080" 2.05 mm	2 (50.8)	D2202A	0.93 (1.4)	U	1398	895	622	457	350	
				D	0.09	0.14	0.20	0.27	0.36	
				C	553	443	369	317	277	
				D	0.07	0.11	0.16	0.22	0.29	
Stainless Steel 14 gauge 1.8 mm	2 (50.8)	D2204S	2.5 (3.75)	U	1730	1109	772	568	436	
				D	0.05	0.07	0.10	0.14	0.18	
				C	685	549	458	394	345	
				D	0.04	0.06	0.08	0.11	0.15	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Cont'd

4¾" wide DIAMOND-GRIP® Channel (Cont'd)

Safe Load And Deflection Data												
Clear Span												
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	
299	243	200	168									1½
0.41	0.51	0.61	0.73									
267	240	218	200									(38.1)
0.33	0.45	0.57	0.59									
442	358	296	248	212	183	159	140	110	89			2
0.29	0.34	0.42	0.50	0.59	0.68	0.78	0.90	1.12	1.38			
393	354	322	295	272	253	236	221	197	177			(50.8)
0.23	0.27	0.33	0.40	0.46	0.54	0.63	0.71	0.90	1.11			
597	484	400	336	286	247	215	189	149	121	100	84	2½
0.21	0.26	0.31	0.37	0.43	0.451	0.57	0.66	0.83	1.02	1.24	1.48	
532	479	435	399	368	342	319	299	266	239	218	199	(63.5)
0.17	0.21	0.25	0.30	0.35	0.41	0.46	0.52	0.67	0.82	0.99	1.18	
357	290	240	203	173	150	131	116					1½
0.34	0.42	0.51	0.61	0.71	0.83	0.96	1.09					
318	287	262	241	223	208	195	184					(38.1)
0.27	0.33	0.41	0.48	0.57	0.66	0.77	0.88					
449	365	302	255	218	188	165	145	116	95	79	67	2
0.24	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.98	1.22	1.49	1.79	
400	361	329	303	280	261	245	230	206	188	172	160	(50.8)
0.19	0.21	0.28	0.34	0.40	0.46	0.53	0.61	0.78	0.97	1.19	1.43	
746	605	501	422	366	317	277	244	194	158	131	111	2½
0.21	0.26	0.32	0.38	0.44	0.51	0.59	0.67	0.86	1.07	1.30	1.56	
664	599	545	501	471	439	410	386	345	312	286	264	(63.5)
0.17	0.21	0.25	0.30	0.35	0.41	0.47	0.54	0.69	0.85	1.04	1.25	
277	225	186	156	133	115	101	89					2
0.45	0.56	0.68	0.81	0.95	1.11	1.27	1.45					
247	222	202	186	172	160	149	140					(50.8)
0.36	0.45	0.54	0.65	0.76	0.88	1.02	1.16					
346	281	233	196	168	146	127	113					2
0.23	0.29	0.35	0.42	0.49	0.57	0.66	0.76					
308	278	254	233	216	202	189	178					(50.8)
0.19	0.23	0.28	0.33	0.39	0.46	0.53	0.61					

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

7" wide SAFETY-GRIP® Channel 3 Hole

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 13 gauge 2.2 mm	1½ (38.1)	S3153	3.0 (4.4)	U	1489	954	664	489	375	
				D	0.06	0.09	0.14	0.19	0.24	
				C	793	696	581	499	437	
				D	0.04	0.08	0.11	0.15	0.19	
	2 (50.8)	S3203	3.3 (4.9)	U	2229	1428	993	731	560	
				D	0.05	0.08	0.11	0.15	0.20	
				C	793	793	793	746	654	
				D	0.02	0.05	0.08	0.12	0.16	
	1½ (38.1)	S3151	4.2 (6.2)	U	1921	1231	856	630	483	
				D	0.06	0.10	0.14	0.19	0.24	
				C	1098	897	749	643	564	
				D	0.05	0.08	0.11	0.15	0.20	
	2 (50.8)	S3201	4.5 (6.7)	U	2995	1918	1333	981	752	
				D	0.05	0.08	0.12	0.16	0.21	
				C	1098	1098	1098	1001	877	
				D	0.03	0.05	0.09	0.13	0.17	
	3 (76.2)	S3301	4.8 (7.1)	U	3765	3602	2503	1840	1410	
				D	0.02	0.05	0.08	0.11	0.14	
				C	1098	1098	1098	1098	1098	
				D	0.01	0.02	0.03	0.05	0.07	
Alum .125" 3.2 mm	2 (50.8)	S3208A	1.5 (2.2)	U	1984	1270	882	648	496	
				D	0.08	0.13	0.19	0.25	0.33	
				C	1157	926	771	661	579	
				D	0.06	0.10	0.15	0.20	0.27	
Stainless Steel 16 gauge 1.6 mm	2 (50.8)	S3206S	2.4 (3.6)	U	1826	1169	812	596	456	
				D	0.03	0.05	0.07	0.10	0.13	
				C	1065	852	710	609	532	
				D	0.03	0.04	0.06	0.08	0.10	
Stainless Steel 14 gauge 1.8 mm	2 (50.8)	S3204S	2.8 (4.2)	U	2148	1375	955	701	537	
				D	0.04	0.06	0.09	0.12	0.15	
				C	1253	1002	835	716	626	
				D	0.03	0.05	0.07	0.09	0.12	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Cont'd

7" wide SAFETY-GRIP® Channel (Cont'd)

Safe Load And Deflection Data												
Clear Span												Depth in (mm)
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	
297	241	200	169	144	125	109	97					1½
0.31	0.38	0.46	0.55	0.65	0.76	0.88	1.00					
390	352	321	295	274	255	239	225					(38.1)
0.25	0.31	0.37	0.44	0.52	0.61	0.70	0.80					
444	360	298	251	215	186	162	143	114	93			2
0.25	0.31	0.37	0.45	0.52	0.61	0.70	0.80	1.02	1.27			
582	525	479	440	407	379	355	334	299	271			(50.8)
0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.82	1.02			
382	310	257	217	185	160	140	124					1½
0.31	0.38	0.47	0.56	0.65	0.76	0.88	1.00					
502	453	413	379	351	327	306	288					(38.1)
0.25	0.31	0.37	0.44	0.52	0.61	0.70	0.80					
595	483	399	336	293	253	221	195	155	126	105	89	2
0.27	0.34	0.41	0.49	0.53	0.62	0.71	0.81	1.03	1.28	1.56	1.87	
781	704	641	586	556	517	484	455	407	368	337	311	(50.8)
0.22	0.27	0.33	0.39	0.42	0.49	0.57	0.65	0.82	1.02	1.25	1.50	
1115	904	748	629	537	464	404	356	282	229	190	161	3
0.18	0.22	0.26	0.31	0.37	0.43	0.49	0.56	0.71	0.88	1.07	1.28	
1098	1098	1098	1098	1018	946	885	831	741	669	611	563	(76.2)
0.11	0.14	0.19	0.25	0.29	0.34	0.39	0.45	0.57	0.70	0.85	1.02	
392	317	262	220									2
0.42	0.52	0.63	0.75									
514	463	421	386									(50.8)
0.34	0.42	0.50	0.60									
360	292	241	203									2
0.16	0.20	0.25	0.29									
473	426	388	355									(50.8)
0.13	0.16	0.20	0.23									
424	344	284	239	203	175							2
0.19	0.24	0.29	0.35	0.41	0.47							
557	501	456	418	385	358							(50.8)
0.16	0.19	0.23	0.28	0.32	0.38							

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

7" wide DIAMOND-GRIP® Channel 3 Diamond

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 14 gauge 1.8 mm	1½ (38.1)	D3154	2.9 (4.3)	U		766	492	343	253	194
				D		0.06	0.09	0.13	0.18	0.24
				C		447	358	300	258	227
				D		0.05	0.07	0.11	0.14	0.19
	2 (50.8)	D3204	3.2 (4.8)	U		1374	881	613	451	347
				D		0.05	0.08	0.11	0.15	0.20
				C		802	642	536	461	404
				D		0.04	0.06	0.09	0.12	0.16
	2½ (63.5)	D3254	3.5 (5.2)	U		1720	1103	767	656	433
				D		0.04	0.06	0.08	0.11	0.15
				C		1004	804	671	576	506
				D		0.03	0.05	0.07	0.09	0.12
Steel 12 gauge 2.7 mm	1½ (38.1)	D3152	3.9 (5.8)	U		1304	836	582	428	329
				D		0.07	0.11	0.16	0.22	0.29
				C		761	609	509	437	384
				D		0.06	0.09	0.13	0.17	0.23
	2 (50.8)	D3202	4.4 (6.5)	U		1710	1096	762	561	430
				D		0.05	0.08	0.11	0.15	0.20
				C		997	799	667	573	502
				D		0.04	0.06	0.09	0.12	0.16
	2½ (63.5)	D3252	4.7 (6.9)	U		2666	1708	1187	873	670
				D		0.04	0.07	0.10	0.14	0.18
				C		1555	1245	1039	892	781
				D		0.04	0.06	0.08	0.11	0.14
	3 (76.2)	D3302	5.1 (7.6)	U		3247	2080	1446	1063	815
				D		0.04	0.06	0.08	0.11	0.14
				C		1894	1516	1265	1086	951
				D		0.03	0.04	0.06	0.09	0.11
Alum .080" 2.05 mm	2 (50.8)	D3202A	1.2 (1.8)	U		975	624	434	319	244
				D		0.10	0.16	0.23	0.31	0.40
				C		568	455	380	326	285
				D		0.08	0.13	0.18	0.25	0.32
Stainless Steel 14 gauge 1.8 mm	2 (50.8)	D3204S	3.2 (4.8)	U		1819	1166	811	597	458
				D		0.08	0.13	0.18	0.25	0.33
				C		1061	850	710	609	534
				D		0.06	0.10	0.15	0.20	0.26

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)

D – deflection (in.) Safety Factor = 1.67

Deflection Not to Exceed $\frac{L}{120}$

Cont'd

7" wide DIAMOND-GRIP® Channel (Cont'd)

Safe Load And Deflection Data												
Clear Span												
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	
154	126	105	92									1½
0.30	0.37	0.45	0.55									
203	183	168	159									(38.1)
0.24	0.30	0.36	0.44									
275	223	185	156	134	116	101	90	72	59			2
0.25	0.31	0.38	0.46	0.54	0.63	0.72	0.83	1.06	1.32			
361	326	297	273	254	237	222	209	188	172			(50.8)
0.20	0.25	0.31	0.36	0.43	0.50	0.58	0.66	0.85	1.06			
343	279	231	195	167	144	126	112	89	73	61	52	2½
0.19	0.23	0.28	0.34	0.40	0.46	0.53	0.61	0.78	0.97	1.19	1.44	
451	407	371	341	316	295	276	260	234	213	196	182	(63.5)
0.15	0.19	0.23	0.27	0.32	0.37	0.43	0.49	0.62	0.78	0.95	1.15	
261	212	176	148	127	110	96	85					1½
0.36	0.45	0.55	0.65	0.77	0.90	1.04	1.18					
342	309	282	259	240	224	210	198					(38.1)
0.29	0.36	0.44	0.52	0.62	0.72	0.83	0.95					
341	277	230	194	165	143	125	111	88	72	60	51	2
0.26	0.32	0.38	0.46	0.54	0.63	0.72	0.83	1.06	1.32	1.62	1.95	
447	404	368	339	314	292	274	258	232	211	194	180	(50.8)
0.20	0.25	0.31	0.37	0.43	0.50	0.58	0.66	0.85	1.06	1.29	1.56	
530	430	356	300	254	220	192	169	135	110	92	78	2½
0.23	0.28	0.34	0.40	0.46	0.53	0.61	0.70	0.89	1.10	1.35	1.62	
696	627	571	525	482	449	420	395	353	320	294	272	(63.5)
0.18	0.22	0.27	0.32	0.36	0.42	0.49	0.56	0.71	0.88	1.08	1.29	
645	523	433	365	309	267	233	205	163	133	111	94	3
0.18	0.22	0.27	0.32	0.38	0.44	0.50	0.57	0.73	0.91	1.11	1.33	
847	763	695	639	585	545	510	479	428	388	355	328	(76.2)
0.14	0.18	0.22	0.26	0.30	0.35	0.40	0.46	0.58	0.73	0.89	1.06	
193	157	130	109	93	81							2
0.51	0.63	0.76	0.91	1.07	1.24							
254	229	208	191	177	164							(50.8)
0.41	0.50	0.61	0.73	0.85	1.00							
363	295	244	206	176	153	133	118					2
0.41	0.51	0.62	0.74	0.88	1.02	1.18	1.35					
476	430	392	361	334	311	292	275					(50.8)
0.33	0.41	0.50	0.60	0.70	0.82	0.94	1.08					

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

10" wide SAFETY-GRIP® Channel 5 Hole

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 13 gauge 2.2 mm	1½ (38.1)	S5153	3.5 (5.2)	U	1128	722	501	368	282	
				D	0.06	0.09	0.13	0.17	0.23	
				C	625	625	625	537	470	
				D	0.03	0.06	0.10	0.13	0.18	
	2 (50.8)	S5203	3.9 (5.8)	U	1500	1076	748	551	422	
				D	0.04	0.07	0.10	0.14	0.18	
				C	625	625	625	625	625	
				D	0.02	0.03	0.05	0.09	0.13	
Steel 11 gauge 3.0 mm	1½ (38.1)	S5151	4.5 (6.7)	U	1343	861	599	441	338	
				D	0.06	0.09	0.13	0.18	0.23	
				C	861	861	749	643	564	
				D	0.04	0.07	0.10	0.14	0.19	
	2 (50.8)	S5201	4.8 (7.1)	U	2067	1402	975	717	550	
				D	0.06	0.09	0.13	0.18	0.23	
				C	861	861	861	861	861	
				D	0.02	0.04	0.07	0.12	0.17	
	3 (76.2)	S5301	5.1 (7.6)	U	2067	2067	1816	1334	1021	
				D	0.02	0.04	0.07	0.11	0.13	
				C	861	861	861	861	861	
				D	0.01	0.01	0.02	0.04	0.06	
Alum .125" 3.2 mm	2 (50.8)	S5208A	1.8 (2.6)	U	1278	871	605	445	341	
				D	0.08	0.14	0.20	0.28	0.36	
				C	533	533	533	533	533	
				D	0.03	0.07	0.11	0.18	0.27	
Stainless Steel 16 gauge 1.6 mm	2 (50.8)	S5206S	2.7 (4.0)	U	946	762	529	388	298	
				D	0.04	0.08	0.11	0.15	0.20	
				C	394	394	394	394	394	
				D	0.02	0.03	0.05	0.09	0.13	
Stainless Steel 14 gauge 1.8 mm	2 (50.8)	S5204S	3.2 (4.7)	U	1113	896	622	457	350	
				D	0.05	0.09	0.13	0.18	0.23	
				C	464	464	464	464	464	
				D	0.02	0.04	0.06	0.10	0.15	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Cont'd

10" wide SAFETY-GRIP® Channel (Cont'd)

Safe Load And Deflection Data													
Clear Span													Depth in (mm)
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"		
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658		
223	181	149	125	107	92	80	71						1½
0.29	0.35	0.42	0.50	0.57	0.65	0.75	0.87						
418	376	342	313	289	269	251	235						(38.1)
0.23	0.29	0.34	0.41	0.45	0.53	0.61	1.26						
334	272	225	190	162	140	122	107	85	68	57	48		2
0.23	0.29	0.35	0.42	0.49	0.57	0.66	0.75	0.95	1.16	1.41	1.69		
625	566	516	474	439	409	380	357	317	385	259	238		(50.8)
0.19	0.23	0.28	0.33	0.39	0.46	0.53	0.60	0.76	0.93	1.13	1.34		
268	218	180	152	130	113	98	87						1½
0.29	0.36	0.44	0.53	0.62	0.72	0.84	0.95						
502	453	413	380	352	328	308	290						(38.1)
0.24	0.29	0.35	0.42	0.50	0.58	0.67	0.76						
435	353	291	245	209	180	157	138	109	88	73	61		2
0.29	0.36	0.44	0.52	0.48	0.56	0.64	0.72	0.91	1.13	1.38	1.63		
861	735	668	612	565	255	490	459	408	367	334	306		(50.8)
0.20	0.29	0.35	0.42	0.39	0.44	0.51	0.58	0.74	0.91	1.09	1.30		
807	654	540	454	387	334	291	255	202	163	135	113		3
0.17	0.21	0.26	0.31	0.36	0.42	0.48	0.54	0.70	0.84	1.03	1.22		
861	861	861	861	861	861	861	851	757	681	619	567		(76.2)
0.08	0.11	0.14	0.19	0.24	0.30	0.36	0.44	0.55	0.68	0.83	0.98		
269	218	181	152										2
0.46	0.57	0.68	0.82										
505	455	414	380										(50.8)
0.37	0.45	0.55	0.65										
235	1909	157	133										2
0.25	0.31	0.37	0.45										
394	394	360	331										(50.8)
0.17	0.21	0.31	0.37										
276	224	185	156	133	114								2
0.29	0.37	0.44	0.53	0.62	0.72								
464	464	424	389	359	333								(50.8)
0.20	0.25	0.36	0.43	0.49	0.57								

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

9½" wide DIAMOND-GRIP® Channel 4 Diamond

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 14 gauge 1.8 mm	1½ (38.1)	D4154	3.5 (5.2)	U		779	499	346	255	195
				D		0.09	0.12	0.19	0.26	0.33
				C		617	494	411	353	309
				D		0.06	0.10	0.15	0.20	0.27
	2 (50.8)	D4204	3.7 (5.5)	U		1063	681	474	349	268
				D		0.05	0.08	0.12	0.16	0.21
				C		841	674	563	484	425
				D		0.04	0.06	0.09	0.13	0.17
	2½ (63.5)	D4254	4.2 (6.2)	U		1417	907	630	463	354
				D		0.05	0.07	0.10	0.14	0.17
				C		940	897	748	641	561
				D		0.03	0.06	0.08	0.10	0.14
Steel 12 gauge 2.7 mm	1½ (38.1)	D4152	4.8 (7.1)	U		988	634	441	325	249
				D		0.08	0.12	0.17	0.23	0.30
				C		782	627	524	450	395
				D		0.06	0.09	0.14	0.19	0.24
	2 (50.8)	D4202	5.1 (7.6)	U		1382	886	616	453	348
				D		0.05	0.08	0.12	0.16	0.21
				C		1094	876	732	628	551
				D		0.04	0.07	0.10	0.13	0.17
	2½ (63.5)	D4252	5.6 (8.3)	U		1948	1248	868	639	490
				D		0.04	0.07	0.10	0.13	0.17
				C		1355	1235	1031	885	775
				D		0.03	0.05	0.08	0.11	0.14
	3 (76.2)	D4302	5.8 (8.6)	U		2270	1453	1009	741	567
				D		0.04	0.06	0.08	0.11	0.14
				C		1355	1355	1355	1255	1098
				D		0.02	0.04	0.07	0.11	0.15
Alum .080" 2.05 mm	2 (50.8)	D4202A	1.4 (2.1)	U		800	512	356	261	200
				D		0.12	0.19	0.27	0.37	0.50
				C		633	507	422	362	317
				D		0.10	0.16	0.23	0.30	0.40
Stainless Steel 16 gauge 1.6 mm	2 (50.8)	D4206S	3.2 (4.7)	U		750	480	330	240	186
				D		0.06	0.09	0.13	0.18	0.24
				C		455	455	398	341	299
				D		0.04	0.07	0.11	0.15	0.19
Stainless Steel 14 gauge 1.8 mm	2 (50.8)	D4204S	3.7 (5.5)	U		1540	887	687	506	388
				D		0.07	0.11	0.16	0.22	0.28
				C		915	915	816	700	614
				D		0.04	0.08	0.13	0.17	0.23

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{1}{120}$

Cont'd

9½" wide DIAMOND-GRIP® Channel (Cont'd)

Safe Load And Deflection Data												
Clear Span												
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	
154	125	103	87									1½
0.41	0.52	0.62	0.74									
274	247	224	206									(38.1)
0.33	0.41	0.50	0.60									
213	173	144	121	104	90	79	70	56	46			2
0.26	0.33	0.40	0.47	0.56	0.65	0.75	0.86	1.10	1.38			
379	342	312	288	267	249	234	221	199	181			(50.8)
0.21	0.26	0.32	0.38	0.45	0.52	0.60	0.69	0.88	1.10			
280	227	187	157	134	116	101	89	70	57	47	39	2½
0.22	0.28	0.33	0.40	0.46	0.54	0.62	0.70	0.89	1.11	1.34	1.59	
499	449	408	374	345	320	299	280	249	224	204	187	(63.5)
0.18	0.22	0.26	0.32	0.37	0.43	0.49	0.58	0.71	0.88	1.07	1.27	
198	161	133	113	96	84	73	65					1½
0.39	0.48	0.58	0.69	0.82	0.95	1.10	1.26					
352	318	291	268	248	232	218	205					(38.1)
0.31	0.38	0.46	0.55	0.65	0.76	0.88	1.01					
276	224	186	157	134	116	101	90	72	59	49	42	2
0.27	0.34	0.41	0.49	0.57	0.67	0.77	0.88	1.13	1.41	1.72	2.08	
491	443	404	372	345	321	301	284	255	232	213	198	(50.8)
0.22	0.27	0.33	0.39	0.46	0.54	0.62	0.71	0.89	1.13	1.38	1.66	
388	315	261	220	188	162	142	125	100	81	68	58	2½
0.22	0.27	0.33	0.39	0.46	0.54	0.62	0.71	0.90	1.12	1.37	1.65	
691	623	568	522	483	450	421	397	355	322	296	274	(63.5)
0.18	0.22	0.26	0.31	0.37	0.43	0.50	0.57	0.72	0.90	1.10	1.32	
548	444	367	308	263	226	197	173	137	111	92	77	3
0.22	0.28	0.33	0.40	0.47	0.54	0.62	0.70	0.89	1.10	1.35	1.60	
976	878	799	732	676	627	586	549	488	439	399	366	(76.2)
0.18	0.22	0.27	0.32	0.38	0.43	0.49	0.56	0.71	0.89	1.04	1.27	
158	128	106	89	76	65	57	50					2
0.62	0.76	0.94	1.12	1.30	1.49	1.73	1.97					
282	253	230	211	195	181	169	158					(50.8)
0.49	0.62	0.74	0.88	1.04	1.21	1.38	1.57					
147	120	99	82	70	58	47	39	27				2
0.30	0.37	0.45	0.53	0.63	0.70	0.75	0.80	0.90				
265	239	217	199	184	171	159	149	133				(50.8)
0.24	0.30	0.36	0.43	0.51	0.59	0.67	0.76	0.97				
307	250	207	175	149	129	113	100	80				2
0.36	0.44	0.54	0.64	0.76	0.88	1.02	1.17	1.49				
548	494	451	415	384	358	336	316	284				(50.8)
0.29	0.36	0.43	0.52	0.61	0.71	0.82	0.93	1.19				

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

12" wide SAFETY-GRIP® Channel 6 Hole

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 13 gauge 2.2 mm	1½ (38.1)	S6153	4.3 (6.4)	U		991	635	442	326	250
				D		0.05	0.08	0.12	0.17	0.22
				C		866	794	663	570	500
				D		0.04	0.07	0.10	0.13	0.18
	2 (50.8)	S6203	4.6 (6.8)	U		1457	934	649	478	367
				D		0.04	0.07	0.10	0.13	0.17
				C		866	866	866	836	733
				D		0.02	0.04	0.07	0.11	0.14
Steel 11 gauge 3.0 mm	1½ (38.1)	S6151	5.3 (7.8)	U		1118	717	499	367	282
				D		0.06	0.09	0.13	0.17	0.22
				C		1118	896	748	643	564
				D		0.04	0.07	0.10	0.14	0.18
	2 (50.8)	S6201	5.5 (8.1)	U		1875	1201	835	614	471
				D		0.06	0.09	0.17	0.18	0.24
				C		1362	1362	1253	1075	942
				D		0.03	0.07	0.11	0.15	0.19
	3 (76.2)	S6301	6.2 (9.2)	U		2725	2370	1647	1211	928
				D		0.03	0.06	0.08	0.11	0.14
				C		1362	1362	1362	1362	1362
				D		0.01	0.02	0.04	0.06	0.09
Alum .125" 3.2 mm	2 (50.8)	S6208A	2.1 (3.1)	U		1245	797	554	407	312
				D		0.09	0.15	0.21	0.29	0.38
				C		839	839	831	713	624
				D		0.05	0.10	0.17	0.23	0.30
Stainless Steel 16 gauge 1.6 mm	2 (50.8)	S6206S	3.2 (4.7)	U		871	600	417	308	236
				D		0.04	0.07	0.09	0.13	0.17
				C		435	435	435	435	435
				D		0.02	0.03	0.05	0.09	0.13
Stainless Steel 14 gauge 1.8 mm	2 (50.8)	S6204S	3.8 (5.6)	U		1025	706	491	362	278
				D		0.05	0.08	0.11	0.15	0.20
				C		512	512	512	512	512
				D		0.02	0.04	0.06	0.10	0.15

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Cont'd

12" wide SAFETY-GRIP® Channel (Cont'd)

Safe Load And Deflection Data													
Clear Span													
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)	
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658		
198	161	134	113	97	84	74	65					1½	
0.28	0.34	0.42	0.50	0.58	0.68	0.78	0.89						
446	403	368	338	315	294	276	260					(38.1)	
0.22	0.28	0.34	0.40	0.46	0.54	0.62	0.71						
290	236	195	165	141	122	107	94	75	61			2	
0.22	0.27	0.33	0.40	0.47	0.54	0.63	0.71	0.91	1.14				
653	590	538	494	458	427	400	376	338	307			(50.8)	
0.18	0.22	0.27	0.32	0.37	0.43	0.50	0.57	0.73	0.91				
223	182	151	127	109	94	82	73					1½	
0.28	0.35	0.43	0.51	0.60	0.70	0.81	0.92						
503	454	414	381	353	329	309	291					(38.1)	
0.23	0.28	0.34	0.41	0.48	0.56	0.65	0.74						
373	303	251	211	180	156	136	120	96	78	65	55	2	
0.31	0.38	0.46	0.55	0.65	0.75	0.86	0.99	1.26	1.57	1.91	2.30		
839	757	690	634	586	546	511	481	431	391	358	331	(50.8)	
0.25	0.30	0.37	0.44	0.52	0.60	0.69	0.79	1.01	1.25	1.53	1.84		
734	595	492	414	354	305	266	235	186	151	126	106	3	
0.18	0.23	0.27	0.33	0.38	0.45	0.51	0.59	0.74	0.92	1.12	1.34		
1362	1362	1354	1243	1149	1069	999	939	838	757	692	632	(76.2)	
0.12	0.17	0.22	0.26	0.31	0.36	0.41	0.47	0.60	0.74	0.90	1.07		
247	200	165	139									2	
0.48	0.59	0.72	0.86										
555	500	455	417									5052H32	
0.38	0.48	0.58	0.69									(50.8)	
187	152	126	106									2	
0.22	0.27	0.33	0.39										
435	434	394	361									304 2B	
0.19	0.25	0.30	0.36									(50.8)	
220	179	148	125	107								2	
0.26	0.32	0.39	0.46	0.54									
512	510	463	425	392								316 2B	
0.22	0.29	0.35	0.42	0.48								(50.8)	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

11¾" wide DIAMOND-GRIP® Channel 5 Diamond

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 14 gauge 1.8 mm	1½ (38.1)	D5154	4.1 (6.1)	U		543	349	243	179	138
				D		0.06	0.10	0.15	0.20	0.26
				C		493	427	357	307	270
				D		0.05	0.08	0.12	0.16	0.21
	2 (50.8)	D5204	4.5 (6.7)	U		895	574	400	295	226
				D		0.05	0.08	0.12	0.16	0.21
				C		493	493	493	493	443
				D		0.02	0.05	0.08	0.13	0.17
	2½ (63.5)	D5254	4.8 (7.1)	U		1006	685	476	350	268
				D		0.04	0.07	0.10	0.14	0.18
				C		493	493	493	493	493
				D		0.02	0.03	0.06	0.09	0.14
Steel 12 gauge 2.7 mm	1½ (38.1)	D5152	5.7 (8.5)	U		842	540	376	276	212
				D		0.08	0.13	0.18	0.25	0.32
				C		815	661	552	474	415
				D		0.06	0.10	0.14	0.20	0.26
	2 (50.8)	D5202	6.1 (9.1)	U		1243	797	554	408	313
				D		0.06	0.09	0.13	0.18	0.23
				C		815	815	814	699	613
				D		0.03	0.06	0.10	0.14	0.19
	2½ (63.5)	D5252	6.4 (9.5)	U		1623	1040	723	532	408
				D		0.04	0.07	0.10	0.14	0.18
				C		815	815	815	815	799
				D		0.02	0.04	0.06	0.10	0.14
	3 (76.2)	D5302	6.7 (9.9)	U		1666	1363	946	695	532
				D		0.03	0.07	0.10	0.13	0.18
				C		815	815	815	815	815
				D		0.01	0.03	0.05	0.07	0.11
Alum .080" 2.05 mm	2 (50.8)	D5202A	1.6 (2.4)	U		715	457	319	233	179
				D		0.15	0.23	0.33	0.45	0.58
				C		362	362	362	362	350
				D		0.06	0.12	0.21	0.32	0.46
Stainless Steel 16 gauge 1.6 mm	2 (50.8)	D5206S	3.7 (5.5)	U		606	426	296	218	167
				D		0.05	0.08	0.11	0.16	0.21
				C		376	376	376	376	333
				D		0.02	0.04	0.07	0.10	0.16
Stainless Steel 14 gauge 1.8 mm	2 (50.8)	D5204S	4.5 (6.7)	U		1276	812	565	416	319
				D		0.09	0.14	0.20	0.27	0.36
				C		899	899	830	713	625
				D		0.05	0.10	0.16	0.22	0.29

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{1}{120}$

Cont'd

11¾" wide DIAMOND-GRIP® Channel (Cont'd)

Safe Load And Deflection Data												
Clear Span												Depth in (mm)
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	
110	89	74	63									1½
0.33	0.41	0.50	0.60									(38.1)
242	219	201	185									
0.27	0.33	0.40	0.48									
179	146	121	102	87	75	65	57	45				2
0.27	0.34	0.41	0.49	0.57	0.66	0.76	0.86	1.09				(50.8)
395	357	326	299	276	259	239	224	199				
0.22	0.27	0.33	0.39	0.46	0.53	0.60	0.69	0.87				
211	171	142	119	101	87	76	67	53	43			2½
0.22	0.28	0.33	0.40	0.46	0.54	0.62	0.71	0.89	1.11			(63.5)
466	419	381	349	323	300	280	262	233	210			
0.18	0.22	0.27	0.32	0.37	0.43	0.50	0.56	0.71	0.89			
168	137	113	95	82	71	62	55					1½
0.41	0.51	0.62	0.73	0.87	1.01	1.16	1.33					(38.1)
370	334	305	280	260	242	227	214					
0.33	0.41	0.49	0.59	0.69	0.81	0.93	1.06					
248	200	166	139	119	102	89	78	62	50	41		2
0.29	0.36	0.44	0.52	0.61	0.72	0.82	0.92	1.19	1.44	1.75		(50.8)
545	491	446	409	378	351	327	307	273	245	223		
0.24	0.29	0.35	0.41	0.49	0.57	0.65	0.75	0.94	1.15	1.41		
323	262	218	183	157	136	119	105	83	68	57	48	2½
0.23	0.28	0.34	0.41	0.48	0.56	0.65	0.74	0.94	1.17	1.44	1.73	(63.5)
712	643	586	539	499	465	435	410	367	334	307	284	
0.18	0.23	0.27	0.33	0.39	0.45	0.52	0.59	0.75	0.94	1.15	1.38	
421	341	282	237	202	174	151	133	105	85	70	59	3
0.23	0.20	0.34	0.40	0.47	0.55	0.63	0.71	0.90	1.13	1.34	1.60	(76.2)
815	815	758	695	642	596	556	521	463	417	379	347	
0.16	0.22	0.27	0.32	0.38	0.43	0.50	0.57	0.73	0.89	1.07	1.29	
141	114	94	79	68	58	51	45					2
0.74	0.90	1.10	1.32	1.54	1.77	2.07	2.38					(50.8)
311	280	254	233	215	200	187	175					
0.60	0.74	0.88	0.61	1.23	1.44	1.65	1.88					
132	107	88	74	63	54	48	41	29				2
0.26	0.32	0.38	0.46	0.53	0.63	0.73	0.80	0.90				(50.8)
296	266	242	222	205	190	178	166	148				
0.21	0.25	0.31	0.37	0.43	0.50	0.57	0.65	0.82				
253	206	171	144	123	107	93	82	66				2
0.46	0.56	0.69	0.82	0.97	1.13	1.30	1.48	1.90				(50.8)
557	503	459	423	392	365	343	323	290				
0.36	0.45	0.55	0.66	0.77	0.90	1.04	1.19	1.52				

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

18" wide SAFETY-GRIP® Channel 10 Hole

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 13 gauge 2.2 mm	1½ (38.1)	S10153	5.7 (8.4)	U		641	441	307	226	174
				D		0.05	0.10	0.14	0.19	0.25
				C		480	480	480	480	480
				D		0.02	0.04	0.08	0.12	0.18
	2 (50.8)	S10203	6.0 (8.6)	U		641	641	460	339	260
				D		0.03	0.07	0.11	0.15	0.19
				C		480	480	480	480	480
				D		0.01	0.02	0.04	0.06	0.09
	1½ (38.1)	S10151	6.8 (10.1)	U		752	482	336	247	190
				D		0.06	0.09	0.13	0.17	0.23
				C		1116	904	755	649	570
				D		0.04	0.07	0.10	0.14	0.18
	2 (50.8)	S10201	7.1 (10.6)	U		1207	773	538	396	304
				D		0.05	0.08	0.12	0.16	0.21
				C		1116	1116	1116	1039	911
				D		0.03	0.05	0.09	0.13	0.17
	3 (76.2)	S10301	7.9 (11.7)	U		1488	1488	1153	847	649
				D		0.02	0.04	0.07	0.10	0.13
				C		1116	1116	1116	1116	1116
				D		0.01	0.01	0.02	0.04	0.06
Alum .125" 3.2 mm	2 (50.8)	S10208A	2.8 (4.2)	U		792	581	360	265	203
				D		0.08	0.13	0.19	0.25	0.33
				C		594	594	594	594	594
				D		0.03	0.06	0.11	0.17	0.26

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Cont'd

18" wide SAFETY-GRIP® Channel (Cont'd)

Safe Load And Deflection Data													
Clear Span													
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)	
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	1½	
138	112	93	79	68	59	51	46						
0.31	0.39	0.47	0.56	0.67	0.78	0.90	1.03						
466	421	385	355	327	304	284	266					(38.1)	
0.25	0.31	0.38	0.45	0.53	0.61	0.71	0.80						
206	168	139	117	100	87	76	67	53	43			2	
0.24	0.30	0.36	0.43	0.51	0.60	0.69	0.79	1.01	1.26				
480	480	480	480	480	456	426	399	355	319			(50.8)	
0.13	0.18	0.24	0.32	0.40	0.48	0.55	0.62	0.78	1.06				
151	123	102	86	74	64	56	50					1½	
0.29	0.36	0.44	0.52	0.62	0.72	0.83	0.95						
509	460	420	387	359	335	315	297					(38.1)	
0.23	0.29	0.35	0.42	0.49	0.58	0.67	0.76						
241	195	162	137	117	101	88	78	62	51			2	
0.26	0.33	0.40	0.47	0.56	0.65	0.75	0.85	1.09	1.36				
812	733	668	615	570	531	498	469	421	383			(50.8)	
0.21	0.26	0.32	0.38	0.45	0.52	0.60	0.68	0.87	1.09				
512	415	343	288	246	212	184	162	128	104	86	72	3	
0.15	0.19	0.23	0.27	0.32	0.37	0.43	0.48	0.61	0.76	0.92	1.08		
1116	1116	1116	1116	1116	1116	1038	973	865	778	708	649	(76.2)	
0.08	0.11	0.14	0.19	0.24	0.30	0.34	0.39	0.49	0.60	0.73	0.87		
160	130	108	91	77								2	
0.42	0.52	0.63	0.75	0.88									
630	567	515	472	436								5052H32	
0.38	0.48	0.58	0.70	0.81								(50.8)	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

18¾" wide DIAMOND-GRIP® Channel 8 Diamond

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 14 gauge 1.8 mm	1½ (38.1)	D8154	5.9 (8.7)	U		411	263	182	134	103
				D		0.08	0.11	0.18	0.24	0.31
				C		555	513	428	365	321
				D		0.06	0.10	0.14	0.19	0.25
	2 (50.8)	D8204	6.1 (9.1)	U		606	388	269	198	152
				D		0.06	0.08	0.12	0.16	0.21
				C		555	555	555	541	474
				D		0.02	0.05	0.08	0.13	0.17
	2½ (63.5)	D8254	6.4 (9.5)	U		825	528	367	269	206
				D		0.05	0.08	0.10	0.14	0.19
				C		555	555	555	555	555
				D		0.02	0.032	0.05	0.09	0.13
Steel 12 gauge 2.7 mm	1½ (38.1)	D8152	8.2 (12.1)	U		553	354	246	181	138
				D		0.07	0.11	0.21	0.23	0.30
				C		818	691	576	494	432
				D		0.06	0.09	0.14	0.19	0.25
	2 (50.8)	D8202	8.5 (12.6)	U		825	528	367	269	206
				D		0.06	0.09	0.12	0.17	0.23
				C		818	818	818	737	644
				D		0.03	0.06	0.09	0.13	0.18
	2½ (63.5)	D8252	8.9 (13.2)	U		1047	724	503	369	283
				D		0.05	0.09	0.12	0.17	0.21
				C		818	818	818	818	818
				D		0.02	0.04	0.07	0.11	0.16
	3 (76.2)	D8302	9.3 (13.8)	U		1047	942	654	480	368
				D		0.03	0.06	0.10	0.13	0.18
				C		818	818	818	818	818
				D		0.01	0.02	0.04	0.07	0.10
Alum 100" 2.54 mm	2 (50.8)	D8208A	2.7 (4.0)	U		514	329	229	168	129
				D		0.16	0.25	0.36	0.48	0.61
				C		537	537	537	460	402
				D		0.09	0.15	0.28	0.39	0.50

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Cont'd

18¾" wide DIAMOND-GRIP® Channel (Cont'd)

Safe Load And Deflection Data												
Clear Span												
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	
81	66	54	46									1½
0.39	0.49	0.58	0.70									
285	257	233	214									(38.1)
0.341	0.38	0.31	0.55									
120	97	80	67	57	49	43	38					2
0.27	0.33	0.39	0.48	0.56	0.64	0.73	0.84					
421	379	245	316	292	271	253	237					(50.8)
0.21	0.27	0.32	0.38	0.45	0.52	0.60	0.67					
163	132	109	92	78	67	59	52	41	33			2½
0.25	0.29	0.35	0.43	0.50	0.57	0.68	0.77	0.96	1.18			
555	516	469	430	397	368	344	322	286	258			(63.5)
0.19	0.23	0.28	0.34	0.40	0.46	0.53	0.60	0.77	0.95			
109	89	73	61	53	46	40						1½
0.38	0.48	0.58	0.68	0.80	0.94	1.09						
384	346	314	288	267	250	235						(38.1)
0.31	0.38	0.46	0.54	0.64	0.75	0.87						
163	132	109	92	78	67	59	52	41				2
0.29	0.35	0.43	0.51	0.59	0.68	0.79	0.90	1.14				
573	516	496	430	397	368	344	322	286				(50.8)
0.23	0.28	0.33	0.40	0.47	0.55	0.63	0.71	0.90				
223	181	150	126	107	92	80	71	56	45			2½
0.27	0.33	0.40	0.48	0.56	0.66	0.75	0.86	1.09	1.35			
785	707	643	587	544	505	471	442	393	353			(63.5)
0.22	0.26	0.33	0.38	0.46	0.53	0.60	0.68	0.87	1.07			
291	235	195	163	139	120	105	92	73	59	49	41	3
0.22	0.27	0.33	0.39	0.45	0.53	0.61	0.69	0.88	1.07	1.31	1.55	
818	818	818	766	707	657	613	575	511	460	418	383	(76.2)
0.14	0.19	0.26	0.31	0.36	0.42	0.48	0.56	0.70	0.87	1.05	1.24	
102	83	69	58	49								2
0.79	0.97	1.18	1.40	1.65								
353	323	299	269	249								(50.8)
0.63	0.78	0.93	1.12	1.31								

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

24" wide SAFETY-GRIP® Channel 13 Hole

Safe Load And Deflection Data										
Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 13 gauge 2.2 mm	2 (50.8)	S13203	7.2 (10.7)	U		496	496	365	269	206
				D		0.03	0.08	0.11	0.16	0.21
				C		496	496	496	496	496
				D		0.01	0.02	0.04	0.07	0.10
	3 (76.2)	S13303	7.9 (11.7)	U		496	496	496	496	384
				D		0.01	0.02	0.05	0.09	0.12
				C		496	496	496	496	496
				D		0.00	0.01	0.01	0.02	0.03
Steel 11 gauge 3.0 mm	2 (50.8)	S13201	8.9 (13.2)	U		524	524	467	344	264
				D		0.03	0.07	0.13	0.17	0.23
				C		524	524	524	524	524
				D		0.01	0.02	0.04	0.06	0.09
	3 (76.2)	S13301	9.8 (14.6)	U		524	524	524	524	473
				D		0.01	0.02	0.04	0.07	0.11
				C		524	524	524	524	524
				D		0.00	0.01	0.01	0.02	0.03

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Cont'd

24" wide SAFETY-GRIP® Channel (Cont'd)

Safe Load And Deflection Data													
Clear Span													
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)	
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	2	
164	133	110	93									2	
0.26	0.32	0.39	0.47									(50.8)	
496	496	496	496										
0.14	0.19	0.26	0.33										
303	246	203	171	146	125	109	96					3	
0.16	0.20	0.23	0.28	0.32	0.38	0.43	0.50					(76.2)	
496	496	496	496	496	496	496	496						
0.05	0.06	0.08	0.11	0.14	0.17	0.21	0.26						
209	170	141	119	102	88	77	68	54	44			2	
0.29	0.36	0.43	0.52	0.61	0.71	0.82	0.94	1.20	1.50			(50.8)	
524	524	524	524	524	524	524	524	489	445				
0.13	0.18	0.24	0.31	0.39	0.48	0.60	0.72	0.96	1.20				
374	304	252	212	181	156	137	120	96	78	65	55	3	
0.14	0.18	0.22	0.26	0.30	0.35	0.40	0.46	0.59	0.73	0.89	1.07	(76.2)	
524	524	524	524	524	524	524	524	524	524	524	524		
0.04	0.05	0.07	0.08	0.11	0.13	0.17	0.20	0.29	0.39	0.52	0.68		

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

24" wide DIAMOND-GRIP® Channel 10 Diamond

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT mm	2'0" 610	2'6" 762	3'0" 914	3'6" 1067	4'0" 1219
Steel 14 gauge 1.8 mm	1½ (38.1)	D10154	7.3 (10.8)	U		367	235	163	120	92
				D		0.09	0.14	0.20	0.27	0.34
				C		571	571	489	419	367
				D		0.06	0.10	0.15	0.21	0.28
	2 (50.8)	D10204	7.6 (11.3)	U		539	345	240	176	135
				D		0.05	0.09	0.13	0.17	0.23
				C		571	571	571	571	539
				D		0.02	0.05	0.08	0.12	0.18
	2½ (63.5)	D10254	7.8 (11.26)	U		571	469	325	239	183
				D		0.03	0.07	0.11	0.16	0.20
				C		571	571	571	571	571
				D		0.02	0.03	0.05	0.08	0.12
Steel 12 gauge 2.7 mm	1½ (38.1)	D10152	10.1 (15.0)	U		496	317	220	162	124
				D		0.08	0.13	0.18	0.25	0.32
				C		861	794	661	567	496
				D		0.05	0.10	0.14	0.20	0.26
	2 (50.8)	D10202	10.8 (16.0)	U		738	472	328	241	185
				D		0.06	0.09	0.14	0.18	0.23
				C		861	861	861	843	738
				D		0.03	0.06	0.09	0.14	0.18
	2½ (63.5)	D10252	11.1 (16.5)	U		861	662	460	338	259
				D		0.06	0.09	0.15	0.19	0.26
				C		861	861	861	861	861
				D		0.02	0.04	0.07	0.11	0.17
	3 (76.2)	D10302	11.3 (16.8)	U		861	835	580	426	326
				D		0.03	0.07	0.10	0.14	0.18
				C		861	861	861	861	861
				D		0.01	0.02	0.04	0.06	0.09

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Cont'd

24" wide DIAMOND-GRIP® Channel (Cont'd)

Safe Load And Deflection Data												
Clear Span												Depth in (mm)
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	
72	59	49	41	35	30							1½
0.44	0.56	0.66	0.79	2.70	3.11							
326	293	267	245	226	210							(38.1)
0.35	0.44	0.53	0.62	2.16	2.51							
106	86	71	60	51	44	38	34	27				2
0.29	0.35	0.43	0.51	0.60	0.69	0.78	0.90	1.18				
479	431	392	359	332	308	287	270	240				(50.8)
0.24	0.29	0.35	0.41	0.48	0.55	0.64	0.72	0.92				
145	117	97	81	69	60	52	46	36				2½
0.25	0.31	0.37	0.44	0.51	0.60	0.68	0.78	0.98				
571	571	532	488	451	418	390	366	325				(63.5)
0.17	0.23	0.29	0.34	0.41	0.47	0.55	0.62	0.79				
98	79	66	55	47								1½
0.41	0.50	0.61	0.72	0.86								
441	397	361	332	305								(38.1)
0.33	0.41	0.49	0.58	0.68								
146	118	98	82	70	60	52	46					2
0.30	0.36	0.45	0.54	0.63	0.72	0.82	1.22					
656	590	537	492	454	422	394	369					(50.8)
0.24	0.29	0.36	0.42	0.50	0.57	0.67	0.76					
204	166	137	115	98	84	74	65	51	41			2½
0.32	0.40	0.48	0.57	0.67	0.78	0.90	1.03	1.30	1.59			
861	828	753	690	637	591	552	518	460	414			(63.5)
0.24	0.32	0.39	0.46	0.54	0.63	0.71	0.81	1.03	1.28			
258	209	173	145	124	107	93	82	64	52	43	36	3
0.22	0.28	0.33	0.40	0.47	0.55	0.63	0.71	0.89	1.09	1.34	1.61	
861	861	861	861	803	746	696	653	580	522	475	435	(76.2)
0.13	0.18	0.24	0.31	0.37	0.44	0.50	0.57	0.72	0.88	1.08	1.28	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

30" wide SAFETY-GRIP® Channel 16 Hole

Safe Load And Deflection Data

Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT	2'0"	2'6"	3'0"	3'6"	4'0"
					mm	610	762	914	1067	1219
Steel 11 gauge 3.0 mm	2 (50.8)	S16201	11.8 (17.5)	U		275	275	275	302	231
				D		0.02	0.04	0.09	0.19	0.24
				C		343	343	343	343	343
				D		0.01	0.01	0.02	0.04	0.06
	3 (76.2)	S16301	12.7 (18.9)	U		275	275	275	275	275
				D		0.01	0.01	0.03	0.06	0.09
				C		343	343	343	343	343
				D		0.00	0.00	0.01	0.01	0.02
	4 (101.6)	S16401	13.5 (20.0)	U		275	275	275	275	275
				D		0.00	0.01	0.01	0.03	0.04
				C		343	343	343	343	343
				D		0.00	0.00	0.00	0.01	0.01

Clear Span

4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"	Depth in (mm)
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	(mm)
183	148	122	103									2
0.31	0.38	0.47	0.56									
343	343	343	343									(50.8)
0.08	0.11	0.15	0.20									
271	219	181	152	130	112	97	86					3
0.15	0.18	0.22	0.26	0.32	0.36	0.42	0.45					
343	343	343	343	343	343	343	343					(76.2)
0.03	0.04	0.5	0.06	0.08	0.10	0.12	0.15					
275	275	275	240	205	177	155	136	108	88	73	62	4
0.07	0.11	0.16	0.20	0.23	0.27	0.31	0.36	0.45	0.56	0.68	0.82	
343	343	343	343	343	343	343	343	343	343	343	343	(101.6)
0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.10	0.14	0.19	0.24	

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{1}{120}$

Cont'd

SAFETY-GRIP® Walkway Channel

Safe Load And Deflection Data										
Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT	2'0"	2'6"	3'0"	3'6"	4'0"
					mm	610	762	914	1067	1219
24" Wide 13 gauge 610 mm	5 (127)	S13503W	8.7 (12.9)	U		355	355	355	355	355
				D		0.00	0.00	0.01	0.02	0.03
				C		355	355	355	355	355
				D		0.00	0.00	0.00	0.00	0.01
24" Wide 11 gauge 610 mm	5 (127)	S13501W	11.8 (17.5)	U		657	657	657	657	657
				D		0.00	0.01	0.01	0.02	0.03
				C		657	657	657	657	657
				D		0.00	0.00	0.00	0.00	0.01
30" Wide 11 gauge 762 mm	5 (127)	S16501W	13.6 (20.2)	U		384	384	384	384	384
				D		0.00	0.01	0.01	0.02	0.04
				C		480	480	480	480	480
				D		0.00	0.00	0.00	0.00	0.01
36" Wide 11 gauge 914 mm	5 (127)	S20501W	15.9 (22.9)	U		185	185	185	185	185
				D		0.00	0.00	0.01	0.01	0.02
				C		273	273	273	273	273
				D		0.00	0.00	0.00	0.00	0.00

Clear Span													Depth in (mm)
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"		
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658	5	
355	355	355	355	355	346	301	245	209	169	140	118	(127)	
0.05	0.07	0.10	0.15	0.20	0.26	0.30	0.35	0.44	0.53	0.65	0.78		
355	355	355	355	355	355	355	355	355	355	355	355		
0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.05	0.07	0.09	0.12	0.16		
657	657	657	619	528	455	396	348	275	223	104	155	5	
0.05	0.08	0.12	0.16	0.19	0.22	0.26	0.29	0.37	0.45	0.54	0.65	(127)	
657	657	657	657	657	657	657	657	657	657	657	657		
0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.08	0.11	0.14	0.18		
384	384	384	384	355	306	267	234	185	150	124	104	5	
0.06	0.09	0.16	0.20	0.23	0.26	0.30	0.34	0.45	0.55	0.66	0.78	(127)	
480	480	480	480	480	480	480	480	480	480	480	480		
0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.11	0.15	0.19		
185	185	185	185	185	185	185	185	158	128	106	89	5	
0.04	0.06	0.09	0.12	0.17	0.22	0.29	0.38	0.52	0.65	0.78	0.94	(127)	
273	273	273	273	273	273	273	273	273	273	273	273		
0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.07	0.10	0.13		

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

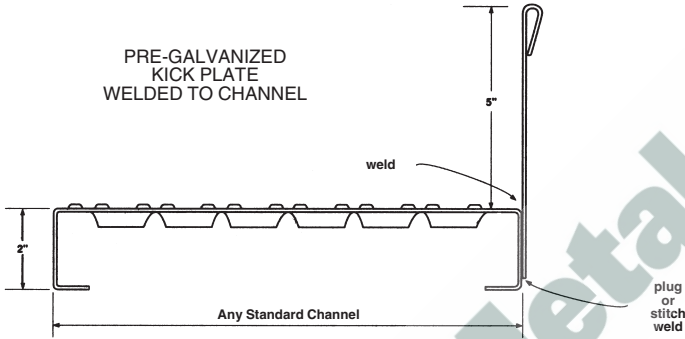
Note: Shaded area – see manufacturers recommendations
for spans over 6'0"

Cont'd

SAFETY-GRIP® Walkway Channel (Cont'd)

For Special Walkway 48"/1219 mm or Wider:

channels may be fabricated by using any standard safety grip channel. 144" standard lengths of Safety-Grip Grating are stitch welded together to make the required width. Welds are painted with Galvacon after fabrication.



DIAMOND-GRIP® Walkway Channel

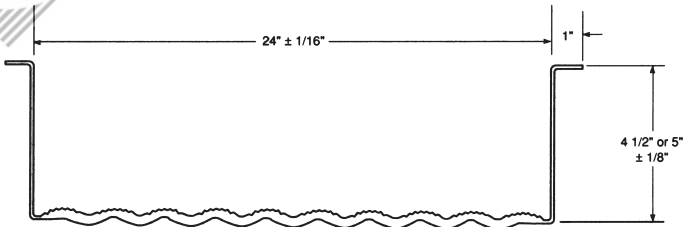
Safe Load And Deflection Data										
Plank				LOAD TYPE	Clear Span					
Type	Depth in. (mm)	Catalog Number	Weight lb/ft (kg/m)		FT	2'0"	2'6"	3'0"	3'6"	4'0"
					mm	610	762	914	1067	1219
24" Wide 14 gauge 610 mm	5 (127)	S10504W	9.6 (14.3)	U		594	594	594	594	594
				D		0.00	0.01	0.02	0.04	0.08
				C		594	594	594	594	594
				D		0.00	0.00	0.01	0.01	0.02
24" Wide 12 gauge 610 mm	5 (127)	S10502W	13.1 (19.5)	U		1033	1033	1033	1029	788
				D		0.01	0.02	0.04	0.08	0.10
				C		1033	1033	1033	1033	1033
				D		0.00	0.01	0.01	0.02	0.03

Clear Span													Depth in (mm)
4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	9'0"	10'0"	11'0"	12'0"		
1372	1524	1676	1829	1981	2134	2286	2438	2743	3048	3353	3658		
519	421	348	293	250	216	188	166	131	107	89	75	5	
0.11	0.13	0.16	0.19	0.22	0.26	0.30	0.34	0.43	0.53	0.65	0.75	(127)	
594	594	594	594	594	594	594	594	594	594	594	594		
0.02	0.03	0.04	0.05	0.07	0.08	0.10	0.12	0.17	0.24	0.32	0.41		
623	505	417	351	299	258	225	198	157	127	105	89	5	
0.12	0.15	0.18	0.22	0.26	0.30	0.34	0.39	0.49	0.61	0.75	0.89	(127)	
1033	1033	1033	1033	1033	1033	1033	1033	1033	1033	1033	1033		
0.04	0.05	0.07	0.09	0.11	0.14	0.17	0.20	0.29	0.40	0.53	0.70		

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

Note: Shaded area – see manufacturers recommendations
for spans over 6'0"

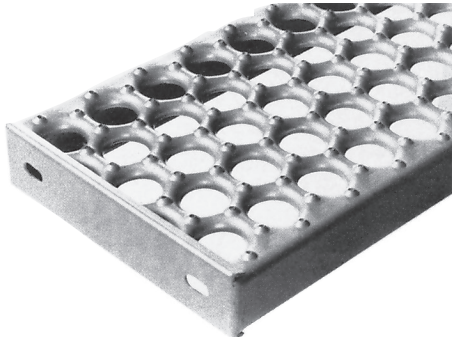
Diamond-Grip Walkway is also available in a one-piece design without the return flange, and with two sizes of kick plates -4½" or 5" high. Load tables without return flange available upon application.



STAIR TREADS

SAFETY-GRIP

Standard Stock
Stair Treads



Pre-galvanized
13 or 11 gauge

Standard Stock Sizes of Safety-Grip Stair Treads:

- 13 GAUGE – 24" wide x 10" deep x 1½" – S515324E
- 13 GAUGE – 30" wide x 10" deep x 1½" – S515330E
- 11 GAUGE – 36" wide x 10" deep x 1½" – S515336E

Design & Tread Variations Available on Special Order:

- perforated buttons only – no debossed holes
- with debossed holes – no buttons
- quantity orders – special length available

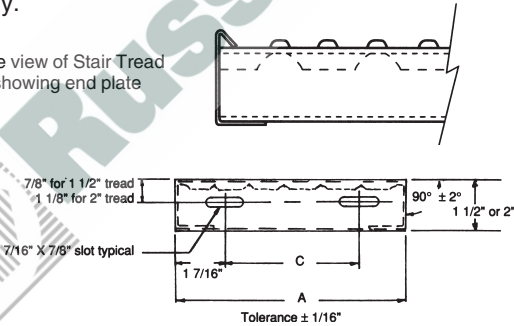
Available on Special Order:

- Type 304 2B Stainless Steel – 16 gauge to 36" wide
- Type 316 2B Stainless Steel – 14 gauge to 36" wide
- 5052H32 Aluminum – .125" thick to 48" wide

EndPlates for Safety-Grip or Safety-Tread Channels:

Standard stock sizes of Safety-Grip stair treads have welded end caps. If you are making your own custom treads from channels, you may wish to draw on our stock of end caps for welded assembly.

Side view of Stair Tread
showing end plate



"A" CHANNEL NOMINAL WIDTH	CARRIER PLATE WIDTH	DIMENSION "C"
5"	4⅞"	2⅛"
7"	7⅞"	4⅛"
10"	9⅞"	7⅛"
12"	11⅞"	9⅛"
18"	17⅞"	15⅛"

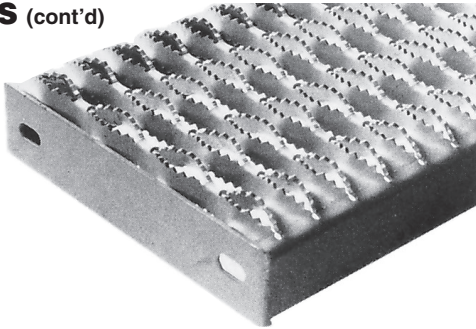
Available for 1½" or 2" heights.

Cont'd

STAIR TREADS (cont'd)

DIAMOND-GRIP

Standard Stock
Stair Treads



Pre-galvanized
14 or 12 gauge

Standard Stock Sizes of Diamond-Grip Stair Treads:

- 14 GAUGE – 24" wide s 9½" deep x 1½" – S415424E
- 14 GAUGE – 30" wide s 9½" deep x 1½" – S415430E
- 12 GAUGE – 36" wide s 9½" deep x 1½" – S415436E

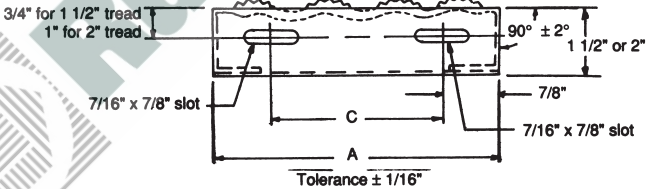
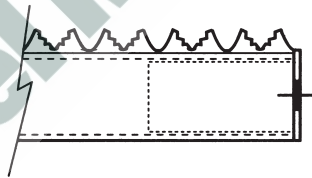
Available on Special Order:

- Type 316 2B Stainless Steel – 14 gauge to 36" wide
- 5052H32 Aluminum – .080" thick to 42" wide

End Plates for Diamond-Grip Channels:

Standard stock sizes of Diamond-Grip stair treads have welded end caps. If you are making your own custom treads from channels, end caps are available from stock.

Side view of Stair Tread
showing end plate



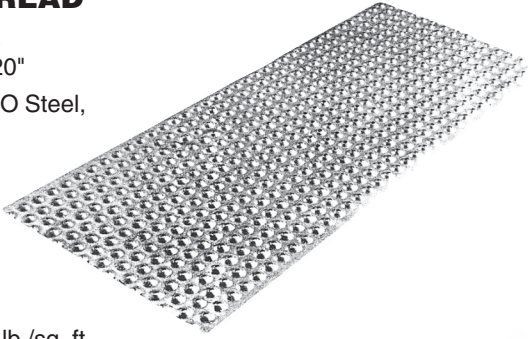
"A" CHANNEL NOMINAL WIDTH	CARRIER PLATE WIDTH	DIMENSION "C"
4¾"	4½"	2⅛"
7"	6¾"	3½"
9½"	9¼"	5⅞"
11¾"	11½"	8⅛"

Available for 1½" or 2" heights.

SAFETY-TREAD

Standard Stock
Sheets 36" x 120"

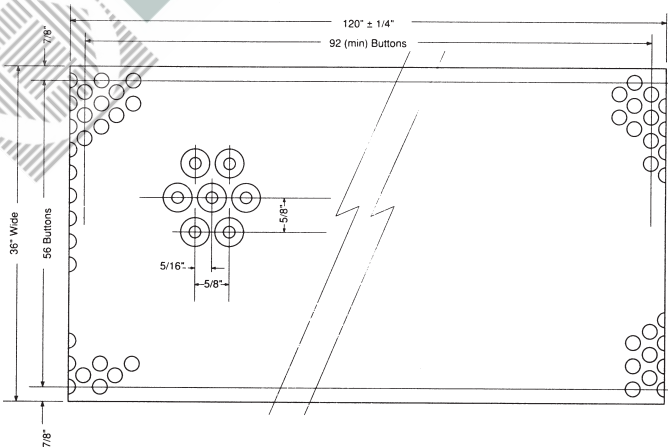
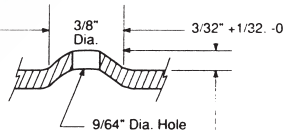
- Hot Rolled P&O Steel,
ASTM-A569
11 gauge,
5.0 lb./sq. ft.
Cat # T3101B
13 gauge,
3.8 lb./sq. ft.
Cat # T3103B
16 gauge, 2.5 lb./sq. ft.
Cat # T3106B



- Aluminum 5052H32 .125" thick, 1.6 lb./sq. ft.
Cat # T3108A
- Stainless steel is available in "V" & square pattern only.
- Stainless Steel type 316 14 gauge, 3.28 lb./sq. ft.
Cat # T3104S

On Special Order Only

- Stainless Steel type 304 2B 16 gauge,
2.4 lb./sq. ft. Cat # T31065
- Pre-galvanized ASTM-A-525, G-90
- Unperforated buttons
- 48" wide and longer lengths

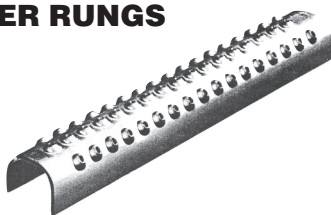


SAFETY-TREAD® LADDER RUNGS

Standard Stock

Lengths 60" (1524 mm)

- H RP&O, ASTM-A-569
- Stainless Steel Type 316
- Aluminum 5052H32
- Pre-galvanized ASTM-A-525, G-90 on special order
- Special lengths cut to order
- End notching also available on special order



2 HOLE		SAFE LOAD SPAN				CATALOG NUMBER	WEIGHT
		16"	18"	20"	24"		lb/in.ft.
11 GAUGE HRP&O	C	377	339	308	265	LR1251B	1.2
	D	.014	.308	.025	.036		
14 GAUGE S. STEEL		NOT AVAILABLE					
.125 ALUMINUM		NOT AVAILABLE					

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

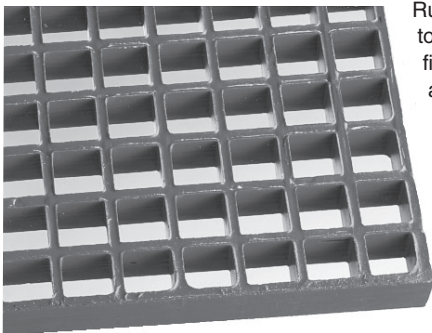
3 HOLE		SAFE LOAD SPAN				CATALOG NUMBER	WEIGHT
		16"	18"	20"	24"		
13 GAUGE HRP&O	C	260	230	200	175	LR6253B	1.3
	D	.020	.029	.037	.065		
14 GAUGE S. STEEL	C	280	250	225	185	LR6254S	1.1
	D	.044	.051	.065	.080		
.125 ALUMINUM	C	240	214	193	161	LR6258A	0.5
	D	.069	.085	.099	.137		

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

4 HOLE		SAFE LOAD SPAN				CATALOG NUMBER	WEIGHT
		16"	18"	20"	24"		
13 GAUGE HRP&O	C	490	440	400	345	LR2253B	1.5
	D	.032	.045	.050	.065		
14 GAUGE S. STEEL	C	415	375	340	290	LR2254S	1.2
	D	.020	.029	.040	.050		
.125 ALUMINUM	C	390	350	320	255	LR2258A	0.7
	D	.280	.041	.050	.067		

Allowable Loads and Deflections: U – uniform load (lb./ft.²) C – concentrated load (lb.)
D – deflection (in.) Safety Factor = 1.67 Deflection Not to Exceed $\frac{L}{120}$

FIBERGLASS PRODUCT GROUP



Russel Metals is pleased to offer two types of quality fiberglass grating, molded and pultruded. Both types are lightweight and easy to install. Molded grating is unmatched in its ability to withstand the effects of corrosion and is highly impact resistant. Pultruded grating provides reliable corrosion resistance and high load bearing characteristics.

Fiberglass grating weighs less than half that of steel, is simple to fabricate and is less expensive to install.

Manufactured by Fibergrate® Corp., the acknowledged leader in resin systems development, Fibergrate grating exceeds the requirements for grating used in even the most demanding applications. In industries such as chemical, refining, offshore, pulp and paper, food and beverage, marine (including military vessels), water and wastewater treatment, electronics and plating, Fibergrate grating is proven to deliver years of reliable service.

Key Benefits:

- Corrosion resistant
- Fire retardant
- Non-conductive
- Long service life
- Maintenance-free
- Impact resistant
- Superior ergonomics
- Low installation cost
- Slip resistant
- Strong, lightweight

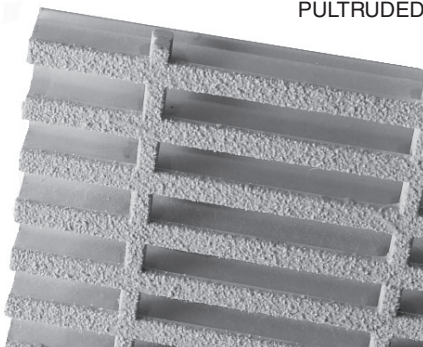
Typical Uses:

- Flooring
- Platforms
- Walkways
- Assembly lines
- Trench covers
- Stairs
- Catwalks
- Ramps

To specify your FRP Grating choose:

- (1) Molded/Pultruded
- (2) Resin system
- (3) Grating thickness
- (4) Mesh Pattern
- (5) Panel sizes needed
- (6) Grit or concave top

PULTRUDED



ACCESSORIES

CLIP ASSEMBLIES FOR FRP GRATING:

All types are made of Type 316 Stainless Steel and are available in 1", 1-½" and 2" sizes.

Type J – for use in securing grating panels to support frames.

Type M – same as Type J Clips, but designed to use two adjacent grating bars for a more secure fit. Also available for pultruded grating.

Type G – designed to attach grating to any structural member flange, ¾" or smaller in thickness, with no drilling required.

Type F – provide a simplified method for joining side bars of panels that are butted end to end.

Type W – designed for securing covered grating or FiberPlate® to a structure.

Type R – for use in securing pultruded grating.

SEALING KITS

To maintain corrosion resistance and structural integrity, Russel Metals in conjunction with Fibergrate offer standard vinyl ester resin sealing kits for protecting the exposed ends of cut panels and other components.

STAIR TREAD

Molded and pultruded stair treads are available. Molded Fibertred® panels offer a rectangular mesh design with double cutting bars for closed bar edges. Fabricated molded and pultruded treads in 1", 1-½" and 2" thicknesses are also available.

MULTIGRID® SCREENING

A multi-purpose lightweight fiberglass screen, Fibergrate's ½" thick Multigrid® can be used for a wide range of industrial, commercial and institutional applications including anti-skid flooring, machinery guards, fencing, space dividers in factories and warehouses and cages for tools, equipment and animals. Corrosion-resistant Multigrid is available with a 2" square mesh pattern in 4' x 12' panels.

CONCRETE TRIM ANGLES

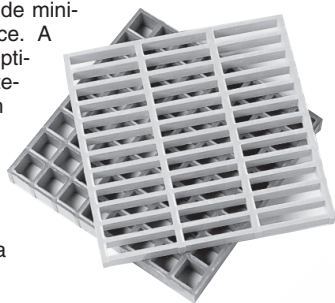
Designed to provide a secure support for placement of grating over concrete trenches and pits. Trim Angles are manufactured of quality vinyl ester resin for use in highly corrosive conditions. Sizes are available for 1", 1-½" and 2" thick grating.

FIBERPLATE®

This rugged structural fiberglass plate is primarily used as non-skid flooring over structural members or existing grating. Often used in the food industry, FiberPlate is designed for maximum worker safety and is easily maintained. The corrosion-resistant plate can also be used as splash-resistant wall panel. Available in thickness ranging from ⅛" to ¾".

MOLDED GRATING

Fibergrate's molded grating is available in square or rectangular mesh and several resin formulations which provide minimal to maximum corrosion resistance. A wide range of panel sizes affords optimal product utilization, minimum materials waste and easy installation with reduced fabrication, handling and time. Concave or grit top surfaces are available for outstanding skid resistance. Covered molded grating with an 1/8" plate top for areas where foot and cart traffic call for a strong, even surface is also available.

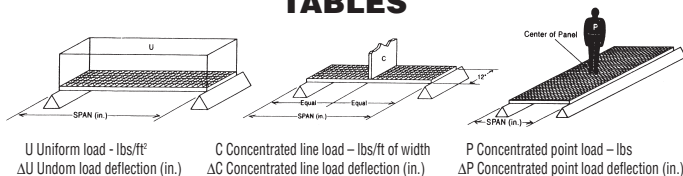


Thickness	Mesh	Panel Sizes
3/4"	1" x 4" rectangular	3' x 10', 4' x 8'
3/4"	1 1/2" square	3' x 10', 4' x 8', 4' x 12'
1"	1" x 4" rect.	3' x 10', 4' x 8'
1"	1 1/2" sq.	3' x 10', 4' x 8', 4' x 12'
1 1/4"	1 1/2" sq.	3' x 10', 4' x 8', 4' x 12', 5' x 10'
1 1/2"	1 1/2" sq.	3' x 10', 4' x 8', 4' x 12', 5' x 10'
2"	2" sq.	4' x 12'

MOLDED GRATING RESIN SYSTEM

- **Vi-Corr** (orange) – Vi-Corr, a superior resin, was developed for reliable performance in the toughest environments. Fibergrate's proprietary resin system formulation offers outstanding resistance to a wide range of highly corrosive environments, ranging from caustic to acidic. Vi-Corr offers an ASTM E-84 flame spread rating of 25 or less.
- **IFR** (green) – IFR is designed for industrial and chemical processing applications where corrosion resistance is important. This isophthalic polyester resin formulation offers a flame spread rating of 25 or less per ASTM E-84.
- **XFR** (gray) – This highly corrosion-resistant resin is recommended for use where the fire potential is high. This proprietary resin carries a flame spread rating of 10 or less, a level exceeded by no other resin system.
- **FGI** (light gray) – USDA-accepted for food processing applications, this isophthalic polyester resin system meets the unique requirements of the food and beverage industry. FGI carries a flame spread rating of 30 or less.
- **Corvex** (yellow and gray) – An economy polyester grating, Corvex meets the requirements for corrosion resistance found in light industrial and water/wastewater applications. This grating also offers a low flame spread rating of 25 or less.
- Standard colours are shown in (brackets). Special and custom colours are available upon request.
- Other special application resins available to meet your specific needs.

SELECTED MOLDED GRATING LOAD TABLES



U Uniform load - lbs/ft²
 ΔU Uniform load deflection (in.)

C Concentrated line load - lbs/ft of width
 ΔC Concentrated line load deflection (in.)

P Concentrated point load - lbs
 ΔP Concentrated point load deflection (in.)

LOAD TYPES

1" THICK, 1½" SQUARE MESH

Engineering properties per ft of width

A=1.71 IN² I=0.14 IN⁴ S=0.29 IN³ AVERAGE EI=300,000 LB-IN²

Clear Span (in.)	Load Type													
											Corvex	IFR FGI	Vi-Corr XFR	Ultimate Capacity (note 2)
12	U	100	400	600	800	1,000	1,500	2,000	2,600	3,000	1,580	1,580	3,085	6,770
	ΔU	.01	.03	.05	.06	.08	.12	.16	.21	.24	.13	.13	.25	.54
	C	100	200	300	400	500	750	1,000	1,300	1,500	790	790	1,543	3,567
	ΔC	.01	.03	.04	.05	.06	.10	.13	.17	.19	.10	.10	.20	.46
24	U	50	100	200	250	300	400	500	600	750	395	395	771	1,783
	ΔU	.06	.12	.25	.31	.37	.49	.62	.74	.93	.49	.49	.95	2.20
	C	50	100	200	250	300	400	500	600	750	395	395	771	1,783
	ΔC	.05	.10	.20	.25	.30	.40	.49	.59	.74	.39	.39	.76	1.76
	P	250	600	700	800	900	1,000	1,100	1,200	1,500				
	ΔP	.07	.16	.18	.21	.24	.26	.29	.32	.40				
30	U	50	100	150	200	250	300	400	450	475	253	253	494	1,141
	ΔU	.14	.27	.41	.55	.68	.82	1.10	1.23	1.30	.69	.69	1.35	3.13
	C	50	100	150	200	250	300	400	500	600	316	316	617	1,427
	ΔC	.09	.18	.26	.35	.44	.53	.70	.88	1.05	.55	.55	1.08	2.50
	P	250	750	800	1,000	1,100	1,200	1,300	1,400	1,500				
	ΔP	.13	.39	.41	.52	.57	.62	.67	.72	.77				
36	U	50	100	150	200	250	300	325			176	176	343	793
	ΔU	.31	.62	.93	1.24	1.54	1.85	2.01			1.08	1.08	2.12	4.90
	C	50	150	200	250	300	400	500			263	263	514	1,189
	ΔC	.16	.49	.66	.82	.99	1.32	1.65			.87	.87	1.69	3.92
	P	200	400	500	600	675	750	1,000						
	ΔP	.14	.27	.34	.41	.46	.51	.68						

1½" THICK, 1½" SQUARE MESH

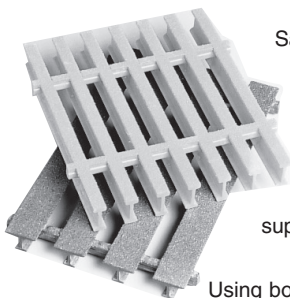
Engineering properties per ft of width

A=2.85 IN² I=0.51 IN⁴ S=0.65 IN³ AVERAGE EI=900,000 LB-IN²

Clear Span (in.)	Load Type										Corvex	IFR FGI	Vi-Corr XFR	Ultimate Capacity (note 2)
12	U	200	300	400	500	600	1,000	1,500	2,000	4,000	2,067	2,833	7,700	10,420
	ΔU	<.01	<.01	.01	.02	.02	.05	.05	.07	.14	.07	.10	.26	.35
	C	200	300	400	500	600	1,000	1,250	1,500	2,000	1,033	1,417	3,850	8,000
	ΔC	.01	.02	.02	.03	.03	.05	.07	.08	.11	.06	.08	.21	.43
	P	200	300	400	500	600	850	1,000	1,500	2,000				
24	ΔP	.06	.12	.17	.21	.25	.35	.42	.62	.83				
	U	200	300	400	500	600	800	900	1,250	1,750	517	708	1,925	4,000
	ΔU	.06	.12	.17	.21	.25	.35	.42	.62	.83	.22	.29	.80	1.66
	C	200	300	400	500	600	800	900	1,250	1,750	517	708	1,925	4,000
	ΔC	.07	.10	.13	.17	.20	.27	.30	.42	.58	.17	.24	.64	1.33
30	P	200	300	400	500	600	800	900	1,250	2,000				
	ΔP	<.02	.03	.05	.06	.07	.09	.10	.14	.23				
	U	200	300	400	500	600	800	1,000	1,200		331	453	1,232	2,560
	ΔU	.18	.27	.37	.46	.55	.72	.91	1.10		.30	.41	1.13	2.34
	C	100	200	300	400	500	700	900	1,500		413	567	1,540	3,200
36	ΔC	.06	.12	.18	.23	.29	.41	.53	.88		.24	.33	.90	1.87
	P	200	300	400	500	600	800	1,000	1,200					
	ΔP	.04	.06	.08	.10	.12	.16	.20	.24					
	U	50	75	100	200	300	400	500	600	700	230	315	856	1,778
	ΔU	.10	.15	.20	.40	.59	.79	.99	1.19	1.39	.46	.62	1.70	3.52
36	C	50	75	100	200	300	400	500	750	1,000	344	472	1,283	2,667
	ΔC	.05	.08	.11	.21	.32	.42	.53	.79	1.06	.36	.50	1.36	2.82
	P	100	200	300	500	700	900	1,000	1,250	1,500				
	ΔP	.03	.06	.09	.15	.21	.27	.30	.38	.46				

** See NOTES following Pultruded Grating Load Tables.

PULTRUDED GRATING



Safe-T-Span® and Safe-T-Walk™ pultruded gratings deliver proven performance and economy. Fibergrate's pultruded gratings combine durability and corrosion resistance with extremely high unidirectional strength and stiffness allowing their unrestricted use in applications requiring wide supports.

Using both a mechanical and chemical lock, **Safe-T-Span®** is manufactured with a flush-top tie bar configuration which increases the panel's support and stability under load. A standard grit-top surface provides sure footing. **Safe-T-Span's** protective synthetic veil, covering the exterior surface of the load bearing bars, allows it to reliably withstand constant exposure to ultraviolet rays.

Series	Panel Thickness	Load Bar Spacing	Widths	Sizes		Load Bars/Ft
				Lengths		
I-4010	1"	1"	3', 4'	8', 10', 12', 20'		12
I-6010	1"	1½"	3', 4'	8', 10', 12', 20'		8
I-4015	1½"	1"	3', 4'	8', 10', 12', 20'		12
I-6015	1½"	1½"	3', 4'	8', 10', 12', 20'		8
T-3320	2"	1½"	3', 4'	8', 10', 12', 20'		8
T-5020	2"	2"	3', 4'	8', 10', 12', 20'		6

5' widths and 24' lengths available upon request.

Safe-T-Walk™ grating is your low cost solution for lightweight, maintenance free floor grating. Designed specifically for pedestrian walkways, **Safe-T-Walk** grating can be the ideal solution in any application where a strong, durable, lightweight surface material is required. No other fiberglass grating can offer this unique combination of performance and competitive price.

Series	Panel Thickness	Load Bar Spacing	Widths	Sizes	Load Bars/Ft
				Lengths	
T-3810	1"	2.4"	3',4'	8',10',12', 20'	5
T-2510	1"	2.0"	3',4'	8',10',12', 20'	6
T-1210	1"	1.7"	3',4'	8',10',12', 20'	7

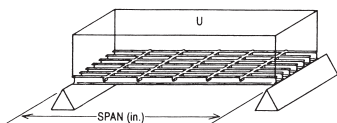
5' widths and 24' lengths available upon request.

Safe-T-Span / Safe-T-Walk Grating Resin Systems

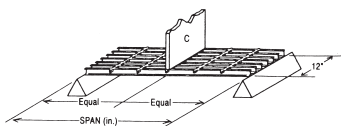
- **ISOFR** – This isophthalic polyester resin formulation provides a low flame spread rating of 25 or less and is designed for applications where there is moderate exposure to corrosive elements.
- **VEFR** – With a flame spread of 25 or less, this vinyl ester resin system provides dependable resistance to both acidic and alkaline environments.

* Standard colours are yellow and gray.

SELECTED PULTRUDED LOAD TABLES



U Uniform load - lbs/ft²
 ΔU Uniform load deflection (in.)



C Concentrated line load - lbs/ft of width
 ΔC Concentrated line load deflection (in.)

LOAD TYPES

1½" THICK, I-6015 SAFE-T-SPAN

Engineering properties per ft of width

A=3.20 IN² I=0.94 IN⁴ S=1.20 IN³ AVERAGE EI=4,600,000 LB-IN² (SPAN ≥ 24")

Clear Span (in.)	Load Type										Max recommended load (Note 1) all resin systems	Ultimate capacity (note 2)	
12	U	100	200	400	500	700	1,000	5,000	6,000	8,000	8,190	16,380	
	ΔU	<.01	<.01	<.01	<.01	.01	.01	.04	.05	.06	.07	.13	
	C	100	200	400	500	700	1,000	5,000	6,000	8,000	8,190	16,380	
	ΔC	<.01	<.01	.01	.01	.01	.01	.06	.08	.10	.11	.21	
24	U	50	200	400	500	1,000	2,000	4,000				4,095	8,190
	ΔU	<.01	.02	.03	.04	.09	.17	.34				.35	.70
	C	100	300	500	600	1,000	4,000	6,000				6,250	12,500
	ΔC	.01	.02	.03	.04	.07	.27	.41				.43	.85
30	U	50	200	400	500	1,000	2,000	3,000				3,276	6,552
	ΔU	.01	.04	.08	.10	.20	.41	.61				.66	1.33
	C	50	200	400	500	900	1,000	5,000				5,000	10,000
	ΔC	.01	.03	.05	.06	.12	.13	.65				.65	1.30
36	U	50	200	400	500	4,000	2,000	2,500				2,730	5,460
	ΔU	.02	.08	.15	.19	.38	.75	.94				1.02	2.05
	C	50	200	400	500	900	1,000	4,000				4,167	8,333
	ΔC	.01	.04	.08	.10	.18	.20	.80				.83	1.67
42	U	50	200	400	500	800	1,000	2,000				2,041	4,082
	ΔU	.04	.14	.28	.35	.56	.70	1.40				1.43	2.86
	C	50	200	400	500	1,000	2,000	3,000				3,571	7,143
	ΔC	.02	.06	.13	.16	.32	.64	.96				1.15	2.29

SELECTED PULTRUDED LOAD TABLES (CONT'D)

1" THICK, T-3810 SAFE-T-WALK

Engineering properties per ft of width

A=1.76 IN² I=.231IN⁴ S-top=.65 IN³ S-bottom=.35 IN³

AVERAGE EI=1,120,000 LB-IN² (SPAN >24")

Clear Span (in.)	Load Type											Max recommended load (Note 1) all resin systems	Ultimate capacity (note 2)
12	U	50	100	150	200	300	400	500	750	1,000	2,000	2,730	5,460
	ΔU	<.01	<.01	<.01	.01	.01	.01	.01	.02	.03	.06	.08	.16
	C	50	100	150	200	300	400	500	750	1,000	2,000	2,730	5,460
	ΔC	<.01	<.01	.01	.01	.01	.02	.02	.03	.05	.09	.12	.25
24	U	50	75	100	150	200	300	400	500	750	1000	1365	2730
	ΔU	.02	.03	.03	.05	.07	.10	.13	.17	.25	.34	.46	.92
	C	100	200	300	400	500	750	1000	1250	1500	1750	1940	3880
	ΔC	.03	.05	.08	.11	.13	.20	.27	.33	.40	.47	.52	1.04
30	U	50	75	100	150	200	300	400	500	750	1000	1092	2184
	ΔU	.04	.06	.08	.12	.16	.24	.32	.40	.60	.80	.87	1.75
	C	100	200	300	400	500	750	1000	1250	1500	1750	1552	3104
	ΔC	.05	.10	.15	.20	.26	.38	.51	.64	.77	.89	.79	1.58
36	U	50	75	100	150	200	300	400	500	750		862	1724
	ΔU	.08	.12	.16	.24	.32	.49	.65	.81	1.22		1.40	2.80
	C	100	200	300	400	500	750	1000	1250	1500		1293	2587
	ΔC	.09	.17	.26	.34	.43	.65	.86	1.08	1.29		1.12	2.23
42	U	50	75	100	150	200	300	400	500			633	1267
	ΔU	.15	.22	.30	.45	.60	.89	1.19	1.49			1.89	3.78
	C	100	200	300	400	500	750	1000	1250			1109	2217
	ΔC	.14	.27	.41	.54	.68	1.02	1.36	1.70			1.50	3.01

NOTES:

- FIBERGRATE'S LOAD/DEFLECTION TABLE FOR MOLDED GRATING USES 8 LOAD BARS/FT OF WIDTH FOR UNIFORM AND CONCENTRATED LOAD TYPES. SOME MANUFACTURES USE 9 LOAD BARS/FT, WHICH OVERSTATES GRATING PERFORMANCE BY AS MUCH AS 12.5%, WHEN COMPARING FIBERGRATE'S TABLES TO 9 BAR TABLES, MULTIPLY FIBERGRATE'S REPORTED DEFLECTIONS BY 0.89.**
- ULTIMATE CAPACITY represents a complete and total failure of the grating. Values are provided to illustrate the reserve strength of the grating at a given span and are NOT to be used for design. Functionality of grating is limited to MAX RECOMMENDED LOAD.
- Walking loads, typically 50-65 PSF (maximum of 250 lbs. concentrated point load for molded grating), are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 3/8" or CLEAR SPAN divided by 125; for a firmer feel, limit deflection to the lesser of 1/2" or CLEAR SPAN divided by 200. Typical loads are approximately 50 PSF uniform load (250 lbs. concentrated point load for molded grating).
- The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a minimum of ONE-HALF the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to insure acceptable performance. For applications at elevated temperatures, consult factory. The designer is further referenced to ASCE Structural Plastics Design Manual.

IMPORTANT:

Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur.

Stub bars should not exceed 3" in length at any time on 6" tie bars nor 6" at any time on 12" tie bars. Stub bars should not be less than 1" in clip attachment areas.

Safe-T-Walk load bars at platform edges should be fully supported.

FRP RELATED PRODUCTS

GRATING LEGS

Made with the same adherence to quality as all Fibergrate products, specially-designed legs for molded grating are manufactured to provide sturdy support for elevated flooring. All fixed-height and adjustable legs support flooring to heights of up to 60".

SAFETY LADDER SYSTEMS

Engineered to meet or exceed all OSHA requirements, our Fiberglass square tube safety ladder systems combine the rugged durability, corrosion resistance and strength needed to provide reliable worker safety. Priced competitively with standard pre-fabricated ladder systems.

HANDRAIL SYSTEMS

Fibergrate's comprehensive range of durable modular and fabricated handrails meet or exceed even the strictest OSHA and building code requirements for safety and design. Easily assembled in the field, these fiberglass handrail systems provide for long life and serve to increase fire retardancy, reduce conductivity and add to worker safety.



DYNAFORM® STRUCTURAL SHAPES

Fibergrate's Dynaform® structural shapes combine high performance with cost effectiveness. These lightweight, corrosion resistant bars, rods, tubes, beams, channels, leg angles and plates are engineered to provide years of maintenance-free service. In addition, every Dynaform structural shape is available in sizes that allow it to accommodate many applications.

ENGINEERED APPLICATIONS

Combining engineering expertise with an understanding of fiberglass applications, Fibergrate provides turnkey design and fabrication of fiberglass structures. Fibergrate has produced in excess of 15,000 projects covering a wide range of structures, including platforms, catwalks, stairways and test racks.