

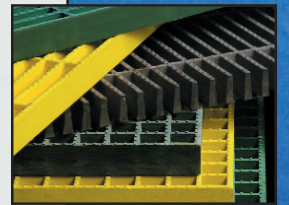
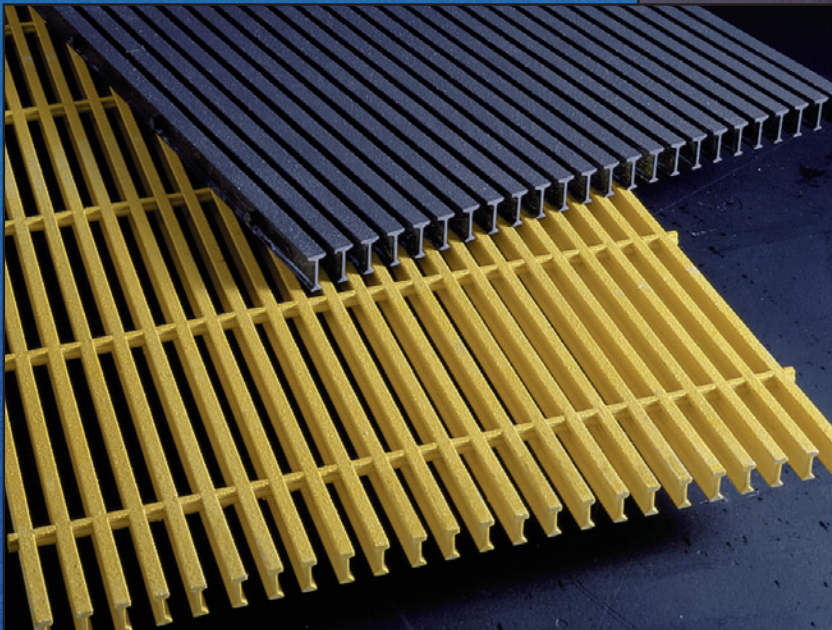


seasafe®

FIBERGLASS GRATING &
STRUCTURAL SYSTEMS

A GIBRALTAR INDUSTRIES COMPANY 

(800) 326-8842



seasafe® The easy-to-work-with company.



FIBERGLASS GRATING &
STRUCTURAL SYSTEMS

A GIBRALTAR INDUSTRIES COMPANY 



WHO ARE WE?

Seasafe is a manufacturer of molded and pultruded fiberglass reinforced plastic (FRP) products. These include grating, stair treads, floor plates, covered grating, handrails, ladders, cable tray, fiberglass struts and structural shapes. All are available through a network of stocking distributors and representatives. Founded in 1978, plants are in Lafayette, Louisiana and Houston, Texas. Capabilities include design and engineering assistance as well as custom manufacturing. Seasafe started in business as a fabricator, doing jobs no one else wanted to do or was capable of doing. Today, we are an industry leader in both fabrication and manufacturing. Seasafe's Fiber Reinforced Composite Products can replace metallics in virtually any traditional steel application.

AMICO (Alabama Metal Industries Corporation) acquired Seasafe in 1998. In 1999, AMICO acquired International Grating, Inc and put it under the direction of Seasafe. Gibraltar Industries, Inc. (NASDAQ: ROCK) acquired AMICO in 2005. Seasafe continues to grow and innovate, adding products and services to serve a diverse customer base.

THE EASY TO WORK WITH COMPANY...

Our position is very simple. People who pay attention to business and treat their customers the way they'd like to be treated themselves will always be winners. It's why we tell it like it is instead of beating around the bush. It's why customer satisfaction is one of our driving forces. And why improvement is our daily goal. We want you to enjoy doing business with us as much as we enjoy doing business with you.

Plant Locations:

Lafayette, LA

Houston, TX










Toll Free: 1-800-326-8842

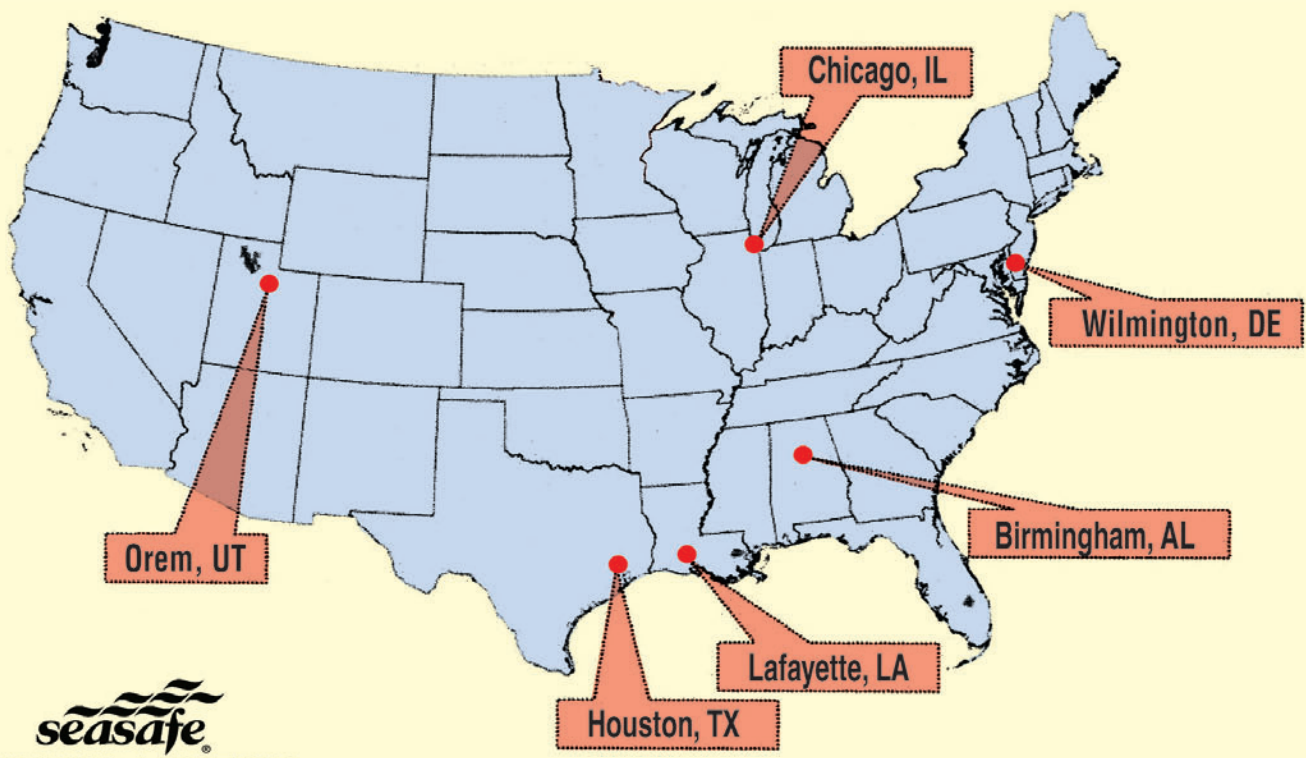
337-406-2345

Fax: 337-406-8880

www.seasafe.com

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seasafe
STOCKING LOCATIONS

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 & catwalks. GatorGrate has been successfully used in many industries – including food processing, beverage, chemical processing, water & wastewater treatment, metal finishing, pulp/paper, transportation, pharmaceutical, textile, oil/gas & mining/smelting/refining.

“How To Write An Outstanding Grating Specification” is available. Just ask for it.

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.

IFR Plus - Premium grade Isophthalic Polyester resin system with Class 1 fire retardancy per ASTM E-84. Excellent corrosion resistance.

PFR & IFR Resin systems meet USDA standards for incidental food contact.

Available Colors For PFR & IFR are green, yellow, dark grey, & 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 colors: orange & dark gray.

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

STANDARD GRID PATTERNS

GatorGrate molded grating is available in five standard grid patterns. Grid dimensions are center line to center line.

1" thick, 1" x 4", rectangular grid

Bearing bars 0.3125" thick

Cross bars 0.5625" thick

Open area of 60%

Designation is RM-1410

1½" thick, 1" x 6", rectangular grid.

Bearing bars 0.375" thick

Cross bars 0.375" thick

Open area of 63%

Designation is RM-1615

1" thick, 1½" x 1½", square grid.

Bearing bars 0.2350" thick

Cross bars 0.2350" thick

Open area of 70%

Designation is GG-1510

1½" thick, 1½" x 1½", square grid.

Bearing bars 0.250" thick

Cross bars 0.250" thick

Open area of 70%

Designation is GG-1515

2" thick, 2" x 2", square grid.

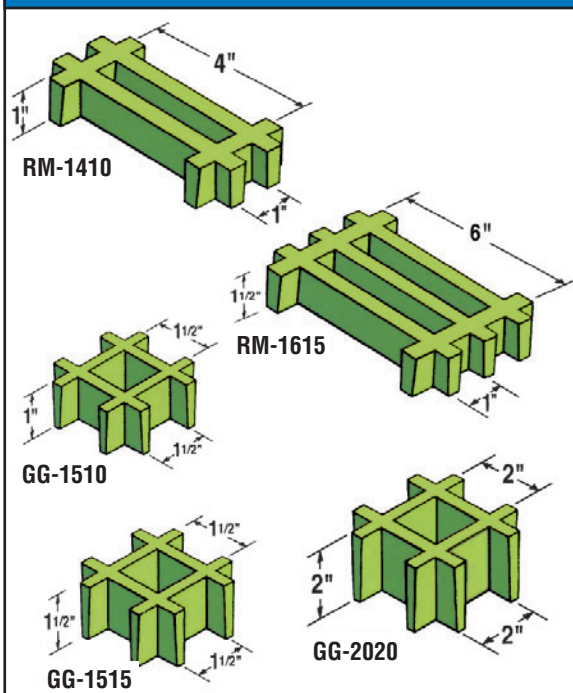
Bearing bars 0.3125" thick

Cross bars 0.3125" thick

Open area of 72%

Designation is GG-2020

STANDARD GRID DIMENSIONS



AVAILABLE TOP SURFACES

Grit top - integral, embedded silica sand, to a nominal depth of 3/16"

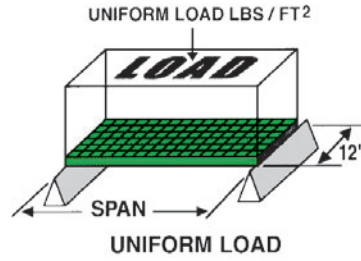
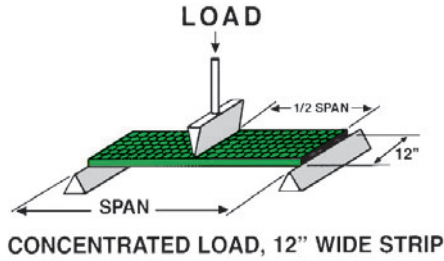
Meniscus - concave, half-moon cross section

Applied Grit - epoxy grit bonded to meniscus top panels

STANDARD PANEL SIZES & WEIGHTS

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	91 lbs
	4' wide x 12' long	140 lbs
GG-1515	3' wide x 10' long	124 lbs
	4' wide x 8' long	131 lbs
	4' wide x 12' long	193 lbs
	5' wide x 10' long	203 lbs
GG-2020	4' wide x 12" long	205 lbs

LOAD & DEFLECTION DATA



The Load and Deflection Data provided in these tables are intended guidelines only, to help you determine the proper grating size for your application. The use of different resin systems and top surface options can produce variations up to 15% in these values. Because the product will be used in environments and under operating conditions that are not within our control, we cannot guarantee the performance of the grating. FRP products have low modulus of elasticity but high tensile strength, therefore loads are generally limited to the allowable deflection determined by the end user. The following data are based on tests utilizing panels supported on two sides only. Additional stiffness can be achieved by using cross supports (see Seasafe's Tech Support Bulletin #1).

RM-1410, Rectangular, 1" Thick (1" x 4")

Clear Span	Concentrated Load, in Lbs., Deflection in Inches							.250" Defl.	.375" Defl.
	100	250	500	750	1000	1500	2000		
18"	0.025	0.064	0.127	0.191	0.255	0.382	**	980	1470
24"	0.057	0.143	0.285	0.428	**	**	**	430	650
36"	0.167	0.418	**	**	**	**	**	150	220
48"*	0.357	**	**	**	**	**	**	70	100

RM-1410, Rectangular, 1" Thick (1" x 4")

Clear Span	Uniform Load, in Lbs./Ft. ² , Deflection in Inches						.250" Defl.	.375" Defl.
	50	75	100	150	200	250		
18"	0.012	0.018	0.024	0.036	0.048	0.060	1030	1540
24"	0.038	0.057	0.075	0.113	0.151	0.189	330	490
36"	0.139	0.209	0.278	0.417	**	**	90	130
48"*	0.420	**	**	**	**	**	30	40

RM-1615 Rectangular, 1½" Thick (1" x 6")

Clear Span	Concentrated Load, in Lbs., Deflection in Inches							.250" Defl.	.375" Defl.
	100	200	300	500	750	1000	1500		
12"	0.013	0.024	0.035	0.056	0.078	0.097	0.128	3982	7097
18"	0.022	0.038	0.052	0.078	0.107	0.132	0.176	2438	4532
24"	0.031	0.052	0.071	0.110	0.158	0.201	0.283	1292	2088
30"*	0.042	0.077	0.111	0.180	0.258	0.332	0.476	724	1149
36"*	0.082	0.114	0.182	0.255	0.367	0.476	**	490	768
42"*	0.096	0.171	0.255	0.423	**	**	**	293	442
48"*	0.116	0.227	0.337	**	**	**	**	220	334

RM-1615 Rectangular, 1½" Thick (1" x 6")

Clear Span	Uniform Load, in Lbs./Ft. ² , Deflection in Inches						.250" Defl.	.375" Defl.	
	50	75	100	150	300	1000			
12"	0.003	0.005	0.006	0.009	0.019	0.031	0.062	4046	6069
18"	0.007	0.010	0.013	0.020	0.039	0.065	0.131	1915	2872
24"	0.013	0.020	0.027	0.040	0.080	0.133	0.285	943	1415
30"*	0.027	0.040	0.054	0.081	0.161	0.289	**	465	698
36"*	0.048	0.072	0.096	0.143	0.287	0.478	**	262	393
42"*	0.093	0.140	0.196	0.278	**	**	**	134	202
48"*	0.142	0.214	0.285	0.427	**	**	**	88	132

GG-1510 Square, 1" Thick (1½" x 1½")

Clear Span	Concentrated Load, in Lbs., Deflection in Inches							.250" Defl.	.375" Defl.
	100	250	500	750	1000	1500	2000		
18"	0.039	0.098	0.196	0.293	0.391	**	**	640	960
24"	0.093	0.232	0.464	**	**	**	**	270	410
36"	0.313	**	**	**	**	**	**	80	120
48"*	**	**	**	**	**	**	**	35	50

GG-1510 Square, 1" Thick (1½" x 1½")

Clear Span	Uniform Load, in Lbs./Ft. ² , Deflection in Inches						.250" Defl.	.375" Defl.
	50	75	100	150	200	250		
18"	0.018	0.028	0.037	0.055	0.073	0.092	695	1035
24"	0.058	0.087	0.116	0.174	0.232	0.290	220	330
36"	0.293	0.440	**	**	**	**	45	65
48"*	**	**	**	**	**	**	15	20

GG-1515 Square, 1½" Thick (1½" x 1½")

Clear Span	Concentrated Load, in Lbs., Deflection in Inches							.250" Defl.	.375" Defl.
	100	250	500	750	1000	1500	2000		
18"	0.012	0.030	0.060	0.090	0.120	0.181	0.241	2060	3090
24"	0.029	0.071	0.143	0.214	0.285	0.428	**	860	1290
36"	0.096	0.241	0.482	**	**	**	**	260	385
48"*	0.228	**	**	**	**	**	**	110	160
60"*	0.446	**	**	**	**	**	**	55	85

GG-1515 Square, 1½" Thick (1½" x 1½")

Clear Span	Uniform Load, in Lbs./Ft. ² , Deflection in Inches						.250" Defl.	.375" Defl.
	50	75	100	150	200	250		
18"	0.006	0.008	0.011	0.017	0.023	0.028	2170	3260
24"	0.018	0.027	0.036	0.054	0.071	0.089	685	1030
36"	0.090	0.135	0.181	0.271	0.361	0.451	135	205
48"*	0.285	0.428	**	**	**	**	45	65
60"*	**	**	**	**	**	**	**	**

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

Clear Span	Concentrated Load, in Lbs., Deflection in Inches							.250" Defl.	.375" Defl.
	100	250	500	750	1000	1500	2000		
18"	0.008	0.020	0.040	0.060	0.080	0.120	0.160	2950	4420
24"	0.017	0.043	0.086	0.129	0.171	0.257	0.343	1455	2200
36"	0.048	0.120	0.240	0.360	0.480	**	**	520	785
48"*	0.110	0.275	**	**	**	**	**	230	340
60"*	0.229	**	**	**	**	**	**	110	165

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

Clear Span	Uniform Load, in Lbs./Ft. ² , Deflection in Inches						.250" Defl.	.375" Defl.
	50	75	100	150	200	250		
18"	0.004	0.006	0.008	0.012	0.016	0.020	2840	4260
24"	0.011	0.016	0.021	0.032	0.043	0.054	1165	1745
36"	0.045	0.068	0.090	0.135	0.180	0.225	280	410
48"*	0.138	0.206	0.275	0.413	**	**	90	135
60"*	0.358	**	**	**	**	**	35	55

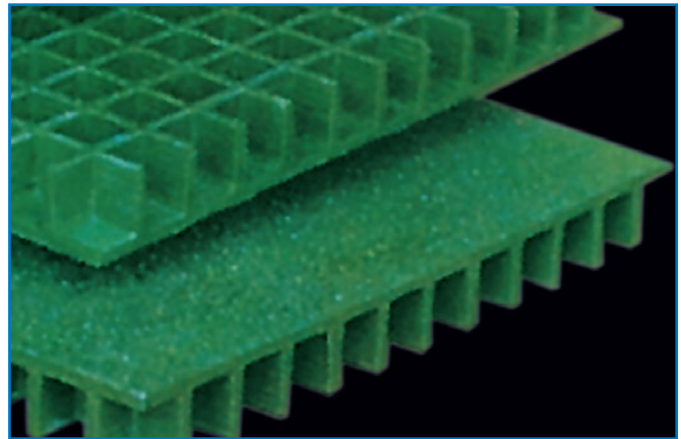
* Clear span is 2" less than width of grating.

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

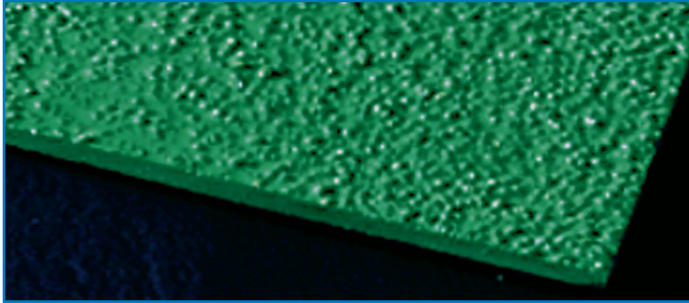
GATORPLATE & COVERED MOLDED GRATING

GatorPlate™ floor plate is perfect for fixing slippery spots or in large slippery areas. The anti-slip surface helps reduce slips & falls even when hazardous liquids are present.

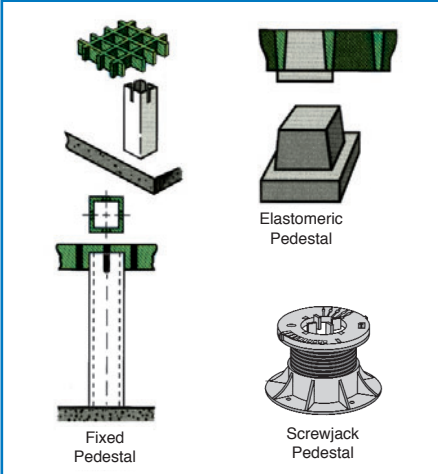
Seasafe grating available with Gator Plate attached to the top for a smooth walking surface. Covered grating is used for odor control, elevated walkways to insure that nothing drops thru the walkway onto the surface below.



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



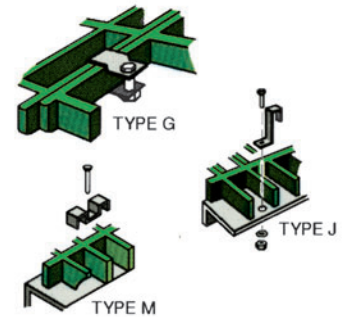
Pedestals



Hardware Clips

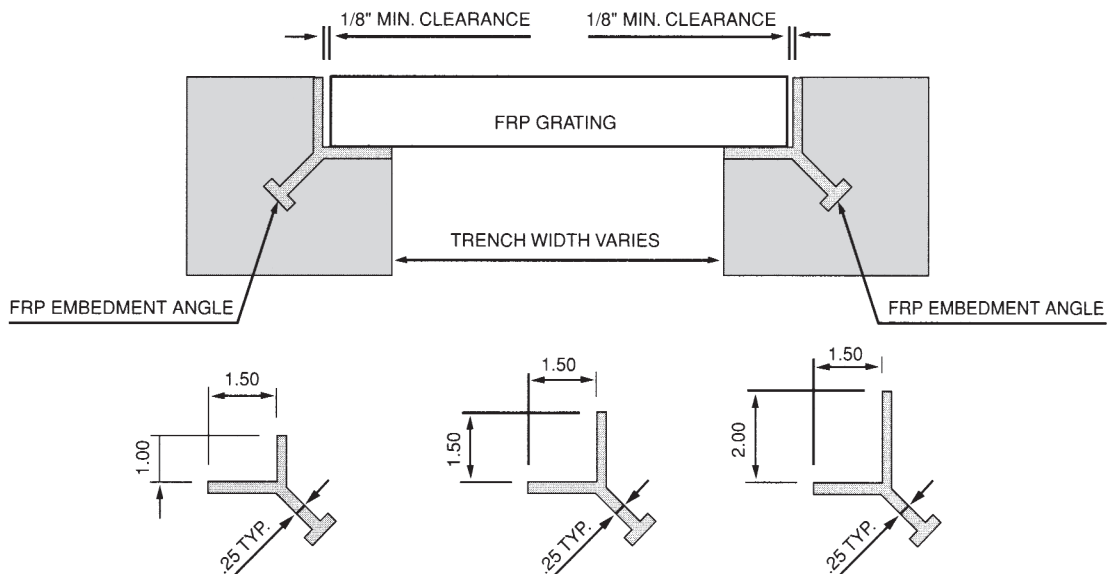
Hardware (Clips)

	Type	HD10	1510	1515	2020
End Panel	“G”	–	X	X	X
Hold Down	“J”	X	X	X	X
Hold Down	“M”	X	X	X	X



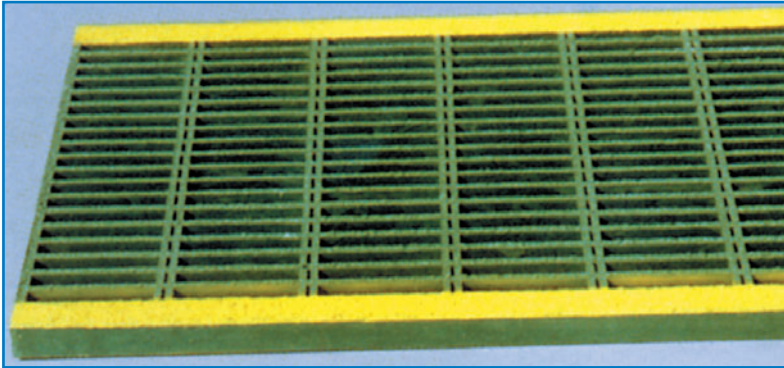
Type 316 stainless steel clips are available with or without nut, bolt or washer. Other metals available upon request. For maximum safety, we recommend that all grating be fastened to support structure. When ordering clips, please specify type of grating.

Embedment Angle



GATORGRATE STAIR TREADS & STAIR TREAD COVERS

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 22 3/4" 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. This table 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.

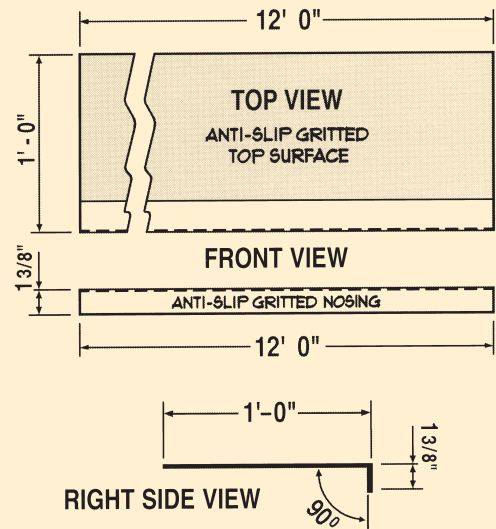


Stair Tread Covers



Fiberglass Stair Tread Covers are a cost-effective way to improve stairway safety for your workers.

Made with corrosion resistant resin with a low flame spread rating. Panels include an integral grit top surface and a woven fiberglass mat.



Custom Aquarium Tank Stands

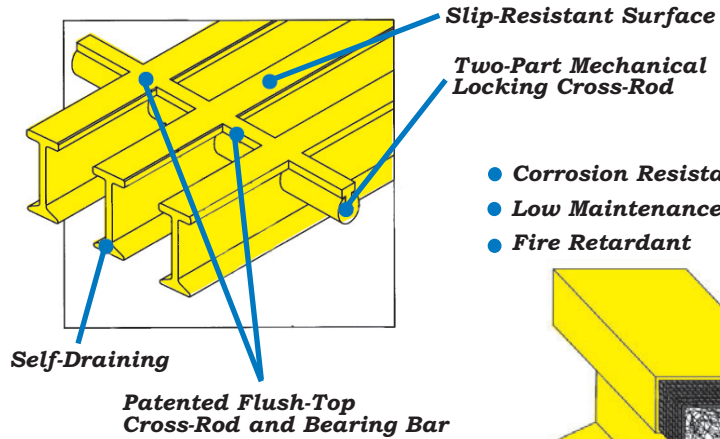


Think Seasafe when designing your next project. Superior strength and corrosion resistance are just two reasons why structural fiberglass is # 1 for aquarium applications. Let Seasafe help with your next support structure or tank platform project.

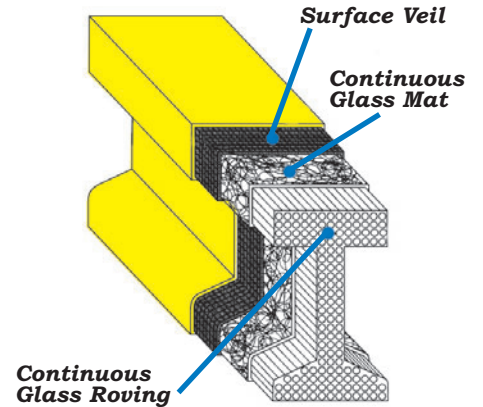


GATORDECK™ - PULTRUDED GRATING

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 Gator-Deck® pultruded grating provides the ultimate combination of strength, corrosion resistance, and structural integrity as a result of the automated pultrusion process.

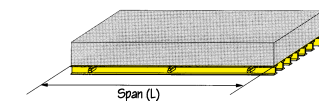
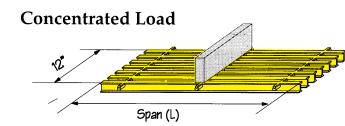
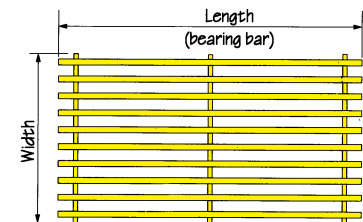
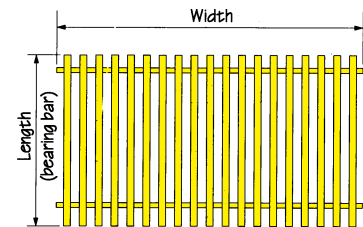


- Corrosion Resistant
- Low Maintenance
- Fire Retardant



WIDTH X LENGTH

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



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.

GatorDeck Pultruded Grating Selection

Series	Open Area	Depth	Top Flange Width	Bar Spacing	Bars/Ft.	Lbs/Ft ²
I-6010	60%	1"	.6"	1-1/2"	8	2.35
I-4010	40%	1"	.6"	1"	12	3.41
I-6015	60%	1-1/2"	.6"	1-1/2"	8	2.83
I-4015	40%	1-1/2"	.6"	1"	12	4.13
T-2515	25%	1-1/2"	1-1/2"			
T-1215	12%	1-1/2"	1-1/2"			
T-5020	50%	2"	1"	2"	6	3.1
T-3320	33%	2"	1"		8	4.1
WT-3310	33%	1"	1-5/8"			
WT-1810	18%	1"	1-5/8"			

Typical Physical Properties of Seasafe Pultruded Components

Property	Test Method	Units	I-Series 70-75% Glass	T-Series 65-70% Glass
Tensile Strength	ASTM D-638	PSI	125,000	100,000
Tensile Modulus	ASTM D-638	PSI	6.0 x 10 ⁶	5.6 x 10 ⁶
Flexural Strength	ASTM D-790	PSI	125,000	100,000
Flexural Modulus	ASTM D-790	PSI	6 x 10 ⁶	5.6 x 10 ⁶
Compressive Strength	ASTM D-695	PSI	65,000	60,000
Izod Impact Notch	ASTM D-256	Ft-Lbs/in	40	40
Barcol Hardness			50 (min)	50 (min)
Specific Gravity	ASTM D-792		2	2
Water Absorption	ASTM D-570	Max %	.03	.03
Flame Retardant	ASTM E-84		Less than 25	Less than 25
Flame Retardant	ASTM D-635		Self-Extinguishing	Self-Extinguishing

Clear span between grating supports

SPAN INCHES

LOAD TYPE

SPAN INCHES	LOAD TYPE	LOAD FOR									
		250	500	750	1000	1500	2000	2500	3000	375-inch deflection	20455
12	UL deflection	.005	.009	.014	.018	.028	.037	.046	.055		
	CL	250	500	750	1000	1500	2000	2500	3000	8721	13081
	CL deflection	.007	.014	.022	.029	.043	.057	.072	.086		
18	UL deflection	.010	.021	.042	.063	.084	.125	.167	.209	2994	4491
	CL	125	250	500	750	1000	1500	2000	2500	2820	4229
	CL deflection	.011	.022	.044	.067	.089	.133	.177	.222		
24	UL deflection	.025	.031	.062	.125	.187	.249	.374	.499	1003	1504

CL = concentrated load (lbs./ft of width)

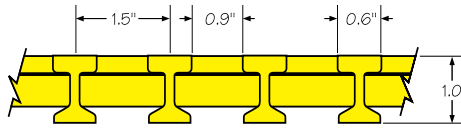
Uniform Load

Load deflection data was derived from laboratory tests conducted by Seasafe. Values tabled are for design selection only. A deflection of .25-inch is generally recommended as maximum for pedestrian comfort. It can be exceeded at the discretion of the specifying engineer.



LOAD & DEFLECTION DATA

Gator-Deck® GD-I6010

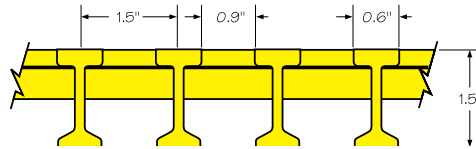


Bearing Bar Type I-Bar
 Open Area 60%
 Thickness 1.0"
 Bearing Bar Centers 1.5"
 Resin Systems IFR, VFR
 Colors Yellow, Gray, or White
 Approx. Weight 2.35 lbs/sq ft
 Other Bar Spacing Avail. 40% & 50% Open Area

SPAN INCHES	LOAD TYPE									LOAD FOR	
		250	500	1000	1500	2000	2400	2800	3200	.25-inch deflection	.375-inch deflection
12	UL	250	500	1000	1500	2000	2400	2800	3200		
	UL deflection	.005	.010	.020	.029	.039	.047	.055	.063		
	CL	250	500	1000	1500	2000	2400	2800	3200		
18	UL	100	250	500	750	1000	1200	1500	1800	3012	4518
	UL deflection	.008	.021	.042	.062	.083	.100	.125	.149		
	CL	100	250	500	750	1000	1200	1500	1800	2778	4167
24	UL	100	200	300	400	600	800	1000	1200	1005	1508
	UL deflection	.025	.050	.075	.099	.149	.199	.249	.298		
	CL	100	200	400	600	800	1000	1200	1500	1225	1838
30	UL	100	200	300	400	500	600	800		434	650
	UL deflection	.058	.115	.173	.231	.288	.346	.461			
	CL	200	300	400	500	600	800	1000		677	1015
36	UL	100	125	150	200	300	400			221	332
	UL deflection	.113	.141	.169	.226	.339	.452				
	CL	100	200	400	500	600	700			411	617
42	UL	75	100	125	150	250				139	209
	UL deflection	.135	.179	.224	.269	.449					
	CL	100	150	200	300	400				260	390
48	UL	50	75	100	125					71	106
	UL deflection	.176	.265	.353	.441						
	CL	100	150	200	250					177	266



Gator-Deck® GD-I6015



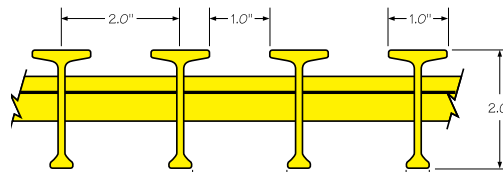
Bearing Bar Type I-Bar
 Open Area 60%
 Thickness 1.5"
 Bearing Bar Centers 1.5"
 Resin Systems IFR, VFR
 Colors Yellow or Gray
 Approx. Weight 2.83 lbs/sq ft
 Other Bar Spacing Avail. 40% & 50% Open Area

SPAN INCHES	LOAD TYPE									LOAD FOR			
		250	500	1000	1500	2000	2500	3000	3500	4000	4500	.25-inch deflection	.375-inch deflection
12	UL	250	500	1000	1500	2000	2500	3000	3500	4000	4500		
	UL deflection	.002	.003	.007	.010	.013	.016	.023	.029	.036	.042		
	CL	250	500	1000	1500	2000	2500	3000	3500	4000	4500		
18	UL	250	500	1000	1500	2000	2500	3000	3500	4000	4500		
	UL deflection	.008	.015	.030	.045	.061	.076	.106	.136				
	CL	250	500	1000	1500	2000	2500	3000	3500	4000	4500		
24	UL	250	500	1000	1500	2000	2500	3000	3500	4000	4500	2737	4106
	UL deflection	.023	.046	.091	.137	.183	.228	.274	.320				
	CL	500	1000	1500	2000	2500	3000	3500	4000	4500	3472	5208	
30	UL	250	500	750	1000	1250	1500	1750	2000	1178	1768		
	UL deflection	.053	.106	.159	.212	.265	.318	.371	.424				
	CL	250	500	1000	1500	2000	2300	2600	2900	1812	2717		
36	UL	100	125	250	500	600	800	1000	1000	631	947		
	UL deflection	.040	.050	.099	.198	.238	.317	.396					
	CL	200	400	600	800	1000	1200	1400		1179	1769		
42	UL	100	125	200	300	400	600			315	473		
	UL deflection	.079	.099	.159	.238	.317	.476						
	CL	100	200	300	400	600	1000			693	1039		
48	UL	100	125	200	250	400				197	295		
	UL deflection	.127	.159	.254	.317	.508							
	CL	100	200	300	400	600				508	762		
54	UL	75	100	125	250					140	210		
	UL deflection	.134	.178	.223	.446								
	CL	100	200	300	600					335	502		
60	UL	50	75	100						88	132		
	UL deflection	.142	.213	.284									
	CL	100	200	300						247	370		



LOAD & DEFLECTION DATA

Gator-Deck® GD-T5020



Bearing Bar Type T-Bar
 Open Area 50%
 Thickness 2.0"
 Bearing Bar Centers 2.0"
 Resin Systems IFR, VFR
 Colors Yellow & Gray
 Approx. Weight 3.10 lbs/sq ft
 Other Bar Spacing Avail. 33% Open Area

SPAN INCHES	LOAD TYPE									LOAD FOR	
		500	750	1000	1250	1500	2000	3000	4000	.25-inch deflection	.375-inch deflection
24	UL	500	750	1000	1250	1500	2000	3000	4000		
	UL deflection	.025	.038	.050	.063	.075	.100	.150	.200		
	CL deflection	.021	.031	.042	.052	.062	.083	.125	.166		
30	UL	250	500	750	1000	1500	2000	2500	3000	1938	2907
	UL deflection	.032	.065	.097	.129	.194	.258	.323	.387		
	CL deflection	.021	.042	.063	.083	.125	.167	.208	.250	3000	4500
36	UL	100	250	500	750	1000	1250	1500	2000	999	1499
	UL deflection	.025	.063	.125	.188	.250	.313	.375	.500		
	CL deflection	.014	.035	.069	.104	.139	.174	.208	.278	1800	2701
42	UL	100	125	250	500	750	1000	1250		550	825
	UL deflection	.045	.057	.114	.227	.341	.454	.568			
	CL deflection	.021	.027	.054	.107	.161	.214	.268		1166	1750
48	UL	100	250	300	400	500	600			313	469
	UL deflection	.080	.200	.240	.320	.400	.480				
	CL deflection	.032	.080	.095	.127	.159	.239			786	1179
54	UL	100	125	250	300	400				208	313
	UL deflection	.120	.150	.300	.360	.480					
	CL deflection	.045	.112	.134	.178	.223				561	841
60	UL	75	100	200	250					129	193
	UL deflection	.146	.195	.389	.486						
	CL deflection	.062	.156	.312	.469					400	600
66	UL	75	100	125	150					94	141
	UL deflection	.200	.267	.333	.400						
	CL deflection	.080	.160	.240	.320					313	469
72	UL	75	100	125						67	100
	UL deflection	.281	.375	.469							
	CL deflection	.103	.256	.410						244	366
78	UL	50	75							48	72
	UL deflection	.260	.390								
	CL deflection	.129	.322							194	292



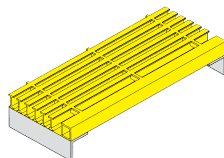
Gator-Deck® Treads



• Strong, safe, and corrosion resistant

Stair Tread Series

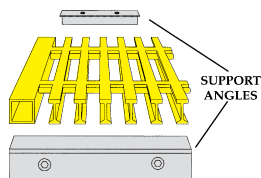
Series	Flush Top	Resin	Color
I-6010	Yes	IFR/VFR	Y/G
I-6015	Yes	IFR/VFR	Y/G
T-5020	No	IFR/VFR	Y/G



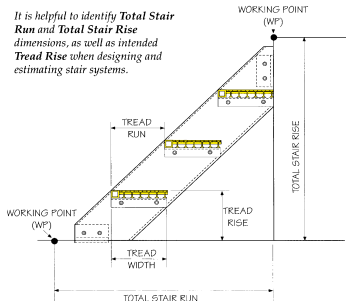
Resins
 IFR = Isophthalic polyester flame-retardant
 VFR = Vinyl ester flame-retardant

Colors
 Y = Yellow
 G = Gray

Stair Tread Assembly



Stair treads are available with optional support angles



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.

Accessories

• For proper fit, maximum performance



Clip Assemblies

Type 316 stainless steel clips, bolts, nuts, and washers are available for panel positioning and hold-down. Standard clips made of special alloys are also available upon request.



TYPE 316 SS SADDLE CLIP



316 stainless steel alloy for I-50, I-60, and T-50 series grating

Grating	Saddle Clip
I-6010	GD-16010CS-316
I-6015	GD-16015CS-316
I-5010	GD-15000CS-316
I-5015	GD-15000CS-316
T-5020	GD-15000CS-316



TYPE 316 SS PLATE CLIP



316 stainless steel alloy for I-40 and T-30 series grating

Grating	Plate Clip
I-4010	GD-14000CP-316
I-4015	GD-14000CP-316
T-3320	GD-T3320CP-316

Span	Tread Deflection for the Concentrated Load of:					
	T-5020		I-6015		I-6010	
	250 lbs.	500 lbs.	250 lbs.	500 lbs.	250 lbs.	500 lbs.
18"	0.009	0.018	0.010	0.019	0.029	0.069
24"	0.018	0.036	0.019	0.038	0.078	0.147
30"	0.027	0.054	0.038	0.076	0.137	
36"	0.036	0.081	0.057	0.105	0.216	
42"	0.054	0.108	0.086	0.171		
48"	0.081	0.162	0.124	0.247		

Standard Panels

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

Custom Panel sizes available; up to 5' widths and 24' lengths.
 Call Seasafe (337-406-2345) for details.



GATORDECK™ - PHENOLIC GRATING

Seasafe's GatorDeck Phenolic Pultruded Grating provides the superior solution for decks, platforms, stairways, and walkways requiring superior resistance to fire, with undetectable levels of smoke and toxic gas emissions. Based on the final version of the U.S. Coast Guard requirements, GatorDeck Phenolic outperformed competitive products in meeting the latest performance specifications for USCG approval. It's the ideal phenolic grating for...

- offshore construction
- marine vessels
- chemical processing plants
- petroleum refineries
- tunnels
- mines
- public structures
- myriad industrial uses

SPAN (IN)	LOAD DEFLECTION (INCHES) @ INDICATED UNIFORM LOAD (LBS/SQ-FT)							LOAD AT	
	50	75	100	150	300	500	1,000	25-INCH DEFLECTION	.375-INCH DEFLECTION
12	0.001	0.001	0.002	0.003	0.005	0.009	0.018		
18	0.002	0.003	0.005	0.007	0.014	0.023	0.046		
24	0.005	0.007	0.009	0.014	0.028	0.046	0.092		
30	0.010	0.015	0.020	0.030	0.059	0.099	0.198	1,263	
36	0.021	0.032	0.042	0.063	0.126	0.210	0.420	595	893
42	0.032	0.049	0.065	0.097	0.195	0.325		385	577
48	0.057	0.086	0.115	0.172	0.344			218	327
54	0.089	0.133	0.177	0.266	0.532			141	211
60	0.131	0.196	0.262	0.392				95	143
66	0.210	0.315	0.420					60	89
72	0.283	0.425						44	66



SPAN (IN)	LOAD DEFLECTION (INCHES) @ INDICATED CONCENTRATED LOAD (LBS)									LOAD AT	
	100	200	400	500	750	1,000	1,500	2,000	2,500	25-INCH DEFLECTION	.375-INCH DEFLECTION
12	0.006	0.009	0.015	0.017	0.022	0.026	0.034	0.041	0.045		
18	0.008	0.014	0.022	0.027	0.036	0.044	0.062	0.079	0.095		
24	0.013	0.020	0.033	0.038	0.053	0.066	0.093	0.119	0.146		
30	0.013	0.026	0.052	0.064	0.095	0.125	0.183	0.241		2,096	
36	0.026	0.048	0.089	0.110	0.163	0.217	0.320	0.423		1,171	1,760
42	0.028	0.059	0.121	0.150	0.223	0.303	0.451			832	1,266
48	0.047	0.093	0.181	0.228	0.341	0.453				555	835
54	0.064	0.128	0.253	0.311	0.465					403	616
60	0.082	0.169	0.336	0.422						302	450
66	0.127	0.246	0.478	0.595						211	315
72	0.152	0.303	0.601	0.752						168	250

Load and deflection data were derived from lab tests conducted by Seasafe. Values are for design selection and are approximate. Seasafe recommends selecting gratings based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort. Deflections of .375-inch or less will give satisfactory pedestrian comfort. Loads for short spans in the .25 and .375 deflection columns have been omitted to allow for shear properties.

U.S. Coast Guard Approval No. 164.040/4

TEST RESULTS Independent testing confirms that GatorDeck Phenolic Pultruded Grating exceeds the performance requirements for Level 2 grating applications as defined in the most recent *Structural Fire Protection for Commercial Vessels* guidelines published by the U.S. Coast Guard (www.uscg.mil/hq/g-m/mse4/sfprgrat1.htm).

Fire Retardance and Flame Spread

Level 3:

All fiberglass gratings except those fitted on open decks and within tanks, cofferdams, voids, pipe tunnels, and ducts should have a low flame-spread rating as determined by the ASTM-E84 *Standard Test Method for the Surface Burning Characteristics of Building Materials*. The flame-spread rating should not exceed 20.

Result:

GatorDeck Phenolic Pultruded Grating achieved an extra-low flame-spread rating of 10, significantly exceeding the requirement for USCG approval.

Smoke Generation

Level 3:

All fiberglass gratings used within accommodation, service, and control spaces should have low smoke characteristics as determined by the International Maritime Organization's (IMO) Fire Test Procedure Code, Resolution MSC 61(67) Part 2, Annex 1: *Smoke and Toxicity Test*. The U.S. Coast Guard's guidelines state that fiberglass gratings must meet the limits set for bulkheads, ceilings, and linings.

Results:

GatorDeck Phenolic Pultruded Grating performed as shown in the tables.

Smoke Density	25 kW/m ² w/o Pilot	25 kW/m ² w/Pilot	50 kW/m ² w/o Pilot
Set Limits	<200	<200	<200
Max. Result	29.0	14.2	124.0
Avg. Result	25.1	13.0	116.6

Toxic Gas Emissions	Set Limits	Maximum Result	Average Result
Carbon Monoxide CO	<1,450	1,154	905
Hydrogen Bromide HBr	<600	Undetectable	—
Hydrogen Chloride HCl	<600	Undetectable	—
Hydrogen Cyanide HCN	<140	31	24
Hydrogen Fluoride HF	<600	Undetectable	—
Sulfur Dioxide SO ₂	<120	Undetectable	—
Oxides of Nitrogen NO _x	<350	Undetectable	—

Structural Fire Integrity

Level 3, Part A:

A sample of the fiberglass grating, 14 inches wide, is tested side-by-side with an equivalent steel grating. The samples are placed on a 48-inch span and subjected to a concentrated load of 88.2 pounds. Both samples are exposed to an ASTM-E119 time/temperature burn for 60 minutes, reaching over 1,700 degrees Fahrenheit. As the temperature rises during the burn, the increasing deflections of the samples are monitored. The fiberglass grating passes this test if the temperature at which the steel grating reaches a set deflection is no higher than 180 degrees above the temperature at which the fiberglass grating reaches the same deflection.

Result:

GatorDeck Phenolic Pultruded Grating performed well within requirements; deflection was reached at only 58 degrees below the steel grating.

Level 3, Part B:

A similar pair of fiberglass and steel grating samples are burned under the same conditions, minus the load, and allowed to cool. The samples are then subjected to an 88.2-pound concentrated load and must support that load without collapsing.

Result:

GatorDeck Phenolic Pultruded Grating meets the USCG structural fire requirements for a Level 3 Type Approved product.

Level 2:

The grating samples used in the post-burn concentrated load test are subjected to uniform loads. To pass this test and receive USCG approval for Level 2 structural fire protection the fiberglass grating must support, without collapsing, a uniform load that is (a) greater than or equal to the load supported by the equivalent steel grating or (b) greater than or equal to 94 pounds per square foot, whichever is less.

Result:

The 14-inch wide GatorDeck Phenolic grating on a 46-inch span overwhelmingly exceeded the Level 2 structural fire requirements by supporting a uniform load of 177 pounds per square foot — almost twice the required amount. (Compare the performance of competitive products tested on 44-inch spans.)

FABRICATION SERVICES

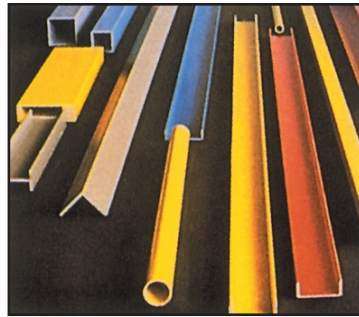
Seasafe custom structural fabrication provides the solution to your corrosion problems. You get high-strength, light-weight, low maintenance fiberglass reinforced composite products to compensate for the shortcomings of conventional materials. Pound for pound, FRP structural shapes are stronger than steel.

Features of Fiberglass Materials

- Corrosion Resistant
- High Strength
- Light weight
- Low Maintenance
- Low Life-Cycle Cost
- Electrically Non-Conductive
- Fire Retardant
- Ultra-Violet Protection
- Low Thermal Conductivity
- Non-Magnetic
- Dimensional Stability
- Easy Assembly

Industries Served

- Food Processing
- Chemical Processing
- Water/Waste Water Treatment
- Recreational/Leisure
- Metal Finishing
- Military/Government
- Beverage
- Utilities
- Oil & Gas
- Marine
- Mining/Refining
- Pharmaceuticals
- Pulp & Paper
- Transportation



STRUCTURAL SHAPES

In-house fiberglass pultrusion technology enables Seasafe to present an extensive line of FRP structural shapes. Standard configurations include angle, channel, square tube, round tube, solid bar, flat sheet, wide flange beam and I-beam. All are readily available in a wide range of sizes and thicknesses.

HANDRAIL & LADDER SYSTEMS

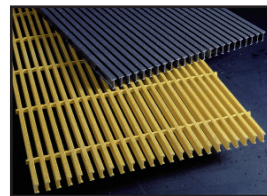


Handrails

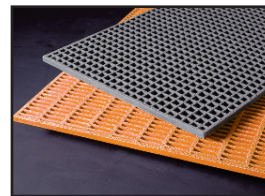


Ladders & Caged Ladders

GRATING AND STAIR TREADS



Pultruded Grating



Molded Grating



Custom Fabrication



Pultruded Stair Treads



Molded Stair Treads



Stair Tread Covers

RESIN SYSTEMS

Seasafe FRP products are available in standard corrosion resistant isophthalic polyester or premium vinyl ester resin systems. Both resins include UV inhibitors and are Class 1 Fire Retardant per ASTM E84.

The Fountains of Bellagio...the world's largest commercial FRP structural project



Products: Structural Shapes
Industry: Leisure and Recreation

PROBLEM: Fabricate an underwater structure for the manmade lake at Bellagio Resort in Las Vegas, that will accommodate all the pneumatic and electrical equipment required. Provide structural support for a series of fountain nozzles and high-intensity lights that are programmed to present a synchronized light, water and music show at regular intervals. And by the way, the structure must be invisible under the surface of the lake.

SOLUTION: Provide an integrated FRP structure, complete with load-bearing structural components, cable trays and grating. Manufacture the structure using a matte-black integral color that is difficult to see underwater. Include special black stainless steel fasteners to eliminate light reflection. Provide more than 200,000 feet of fiberglass structural shapes, as well as 184,000 bolts. Bring the job in on time and on budget.



WHY SEASAFE? We were the only bidder to actually “walk the project” and provide valuable design and logistical input. Through use of innovative manufacturing techniques and logistics support, we reduced the amount of the erector’s bid by \$370,000. And we provided a full-time project manager to ensure its success.

VIDEO
AVAILABLE

Visit the Bellagio and see details of the project during construction. Ask your Seasafe representative to show you the 8-minute video.

CREATIVE SOLUTIONS TO DIFFICULT PROBLEMS

Products: Structural Products, Mezzanines, Grating

Industry: Offshore Oil Exploration & Production

PROBLEM: Provide safe personnel access to equipment; Christmas trees in well bays, compressors, tanks, etc. Eliminate need for scaffolding that has to be set up and taken down. Ladders do not provide a safe platform for working. Areas can be wet and oily, creating safety hazard. A non-welding solution is preferred, because of volatile and inflammable conditions.

SOLUTION: Fiberglass platforms and mezzanines can be prefabricated, and installed by hand as an erector set and require no shut down of production because there is no burning or welding involved. A mezzanine in a well bay, for example, provides safe walk-up access to the upper portion of the Christmas trees and other equipment.

WHY SEASAFE? Seasafe grating has a coarse, silica grit surface either bonded or embedded to the grating for excellent slip resistance. Seasafe offers survey, quotation, detailing, fabrication, and complete turn key installation ensuring a successful project for the customer.



Products: Substructure, Grating, Handrails, Stairways
Industry: Chemical Processing (Manganese)

PROBLEM: Quickly replace personnel access platforms around electrowinning tanks that are exposed daily to acid solutions as well as physical abuse from heavy starter plates. The current structure had deteriorated to the point of potential collapse.

SOLUTION: Provide an engineered fiberglass substructure, grating, handrail and stairways to eliminate beam deterioration and safety hazards. The slip-resistant surface minimizes slip-and-fall accidents in the wetted area. The non-conductive FRP material eliminates potential shock hazards during the electrowinning process.

WHY SEASAFE? Seasafe quickly responded with designs calling for complete replacement of aging structural steel with FRP beams. These met the load requirements for this heavy plating operation. The structure was prefabricated as an “erector set” enabling the on-site contractor to quickly and easily complete the installation.



ACCESSING TANKS & FILLING TANK TRUCKS



Products: Structural Products, Grating, Stairs, Handrails

Industry: Waste Water Treatment

PROBLEM: Design and build safe personnel access to 17 carbon filter tanks each 13 feet high, in a wet and slippery work environment.

SOLUTION: Install an FRP platform with stairs and handrails, with slip-resistant grating and stair treads. (Platforms for two tanks shown here.)

WHY SEASAFE? To ensure

accuracy and ease of assembly on-site, these platforms were assembled and inspected by the customer at Seasafe's plant prior to shipping to Asia. Seasafe completely assembles each fabricated structure at our plant then separates it into sub-assemblies for shipment. This allows quick and trouble-free erection in the field by contractors. We proved to the customer that we could take the design concept and turn it into a finished structure, within their schedule and budget.

Products: Structural Grating, Handrails, Stairways

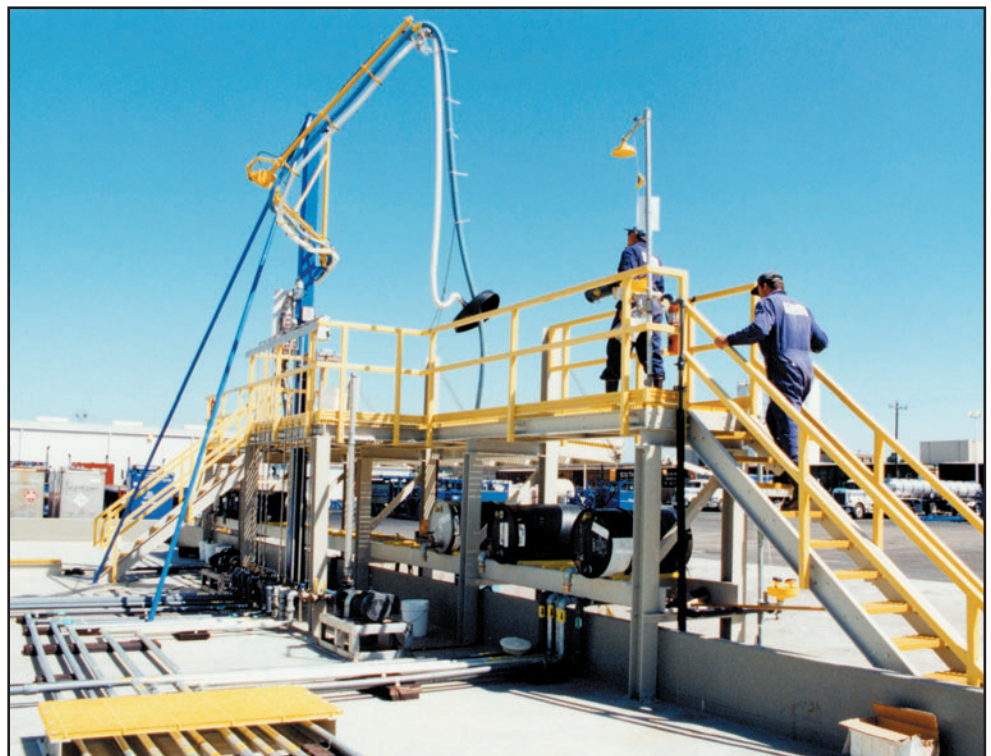
Industry: Chemical Processing

PROBLEM: Efficiently load corrosive chemicals into tank trucks for transfer to job site or end user. Extend life of loading facility. Provide safe working environment.

SOLUTION: Replace metal structure with FRP platform and walkways, eliminating maintenance and replacement requirements. Provide a strong but lightweight platform with a hinged section for safe, quick, easy access to tank truck ports in various locations and at various heights.

WHY SEASAFE?

Seasafe designed a platform that not only met all the job requirements, but was capable of being erected without cranes or heavy lifting equipment.












SEASAFE GATOR SHAPES







Product Availability List

All items are available upon request in standard resin series:
ISO Resin System - Isophthalic Polyester
IFR Resin System - Isophthalic Polyester Class 1 FR
VFR Resin System - Vinylester Class 1 FR

Delivery:
Stocked Items: 1 - 3 days
Items Out of Stock: 2 Weeks
Non-Stocked Items: 2 Weeks

Stocked Items - (All items are stocked in 20' lengths unless otherwise noted.)

Equal Leg Angle 			Wide Flange Beam 			Square Tube 			Round Tube 			
Sizes in Inches	Minimum Mill Run	Lbs. per Lin. Ft.	Sizes in Inches	Minimum Mill Run	Lbs. per Lin. Ft.	Sizes in Inches	Minimum Mill Run	Lbs. per Lin. Ft.	Sizes in Inches	Minimum Mill Run	Lbs. per Lin. Ft.	
1 x 1/8	3,000	0.17	3 x 1/4	1,000	1.69	1 x 7/64	2,500	0.29	3/4 x 3/32	2,000	0.18	
1 x 1/4	2,500	0.32	4 x 1/4	800	2.22	1 x 1/8	1,800	0.32	1 x 1/8	2,000	0.25	
1-1/8 x 1/8	4,000	0.19	6 x 1/4	700	3.52	1-1/4 x 1/4	1,000	0.68	1-1/4 x 3/32	1,900	0.27	
1-1/2 x 1/8	2,700	0.28	6 x 3/8	600	5.13	1-1/2 x 1/8	1,800	0.50	1-1/4 x 1/8	1,900	0.32	
1-1/2 x 3/16	2,200	0.41	8 x 3/8	400	6.97	1-1/2 x 1/4	2,500	0.98	1-1/4 x 3/16	1,800	0.46	
1-1/2 x 1/4	2,000	0.50	8 x 1/2	400	9.23	1-3/4 x 1/8	2,500	0.64	1-1/2 x 1/8	1,900	0.45	
2 x 1/8	2,500	0.37	10 x 3/8	400	8.78	1-3/4 x 1/4	1,600	1.19	1-1/2 x 1/4	1,500	0.79	
2 x 3/16	2,000	0.56	10 x 1/2	400	11.64	2 x 1/8	1,600	0.74	1-3/4 x 1/8	1,600	0.47	
2 x 1/4	1,800	0.73	12 x 1/2	300	13.68	2 x 1/4	1,200	1.40	1-3/4 x 1/4	1,500	0.94	
3 x 1/8	2,000	0.52						2 x 1/8	1,500	0.60		
3 x 3/16	1,500	0.78	Channel 			2-1/2 x 1/4	1,000	1.79	2 x 1/4	1,400	1.12	
3 x 1/4	1,500	1.13				3 x 1/4	800	2.20	2-1/2 x 1/8	1,500	0.71	
3 x 3/8	1,200	1.66	Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			4 x 1/4	700	3.08	2-1/2 x 1/4	1,000	1.43	
4 x 1/4	1,300	1.54				1-1/4 x 1-1/2 x 3/32	2,000	0.28	Square Tube with Round Hole 			
4 x 3/8	900	2.31	1-1/2 x 1 x 3/16	2,200	0.46	1 x 3/4 dia.	5,000	0.40				3 x 1/4
4 x 1/2	1,300	2.86	2-5/16 x 1 x 5/32	2,000	0.45	Solid Round Rod 			3-1/2 x 1/4	900	2.04	
6 x 1/4	900	2.35	2-1/2 x 3/4 x 3/32	2,500	0.25				Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			
6 x 3/8	800	3.44	2 x 9/16 x 1/8	2,800	0.25	Solid Square Bar 						
6 x 1/2	700	4.64	2-5/8 x 1 x 5/32	2,000	0.48				Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			
I-Beam 			2-3/4 x 1 x 1/8	5,000	0.41	1/4 x 1/4	10,000	0.05				1/4
			3 x 7/8 x 1/4	1,700	0.77	3 x 1-1/2 x 1/4	1,300	1.03	1/2 x 1/2	2,500	0.22	5/16
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			3 x 1 x 3/16	1,800	0.68	3 x 1-1/16 x 1/8	1,900	0.58	3/8	5,000	0.10	
			3 x 1-1/2 x 1/4	1,400	1.11	4 x 1-1/16 x 1/8	1,900	0.58	1/2	3,500	0.17	
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			4 x 1-1/8 x 1/4	1,200	1.11	1 x 1-1/8 x 1/4	1,200	1.11	5/8	2,400	0.27	
			4 x 1-3/4 x 3/16	1,200	1.16	4 x 1-3/4 x 3/16	1,200	1.16	3/4	2,000	0.39	
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			5 x 1-3/8 x 1/4	1,200	1.40	5 x 1-3/8 x 1/4	1,200	1.68	13/16	1,800	0.45	
			6 x 3 x 1/4	800	2.31	6 x 1-5/8 x 1/4	1,200	1.68	7/8	1,700	0.53	
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			6 x 3 x 3/8	800	3.39	6 x 1-11/16 x 3/8	1,000	2.56	1	1,500	0.59	
			8 x 4 x 3/8	600	4.61	7 x 1-3/4 x 3/16	1,200	1.36	1-1/4	1,200	1.10	
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			8 x 4 x 1/2	700	6.03	7 x 2 x 1/4	1,200	2.00	1-1/2	900	1.52	
			10 x 5 x 3/8	700	5.78	8 x 2-3/16 x 1/4	1,000	2.32	2	600	2.56	
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			10 x 5 x 1/2	600	7.58	8 x 2-3/16 x 3/8	800	3.41	2-1/2	600	3.93	
			12 x 6 x 1/2	400	9.24	10 x 2-1/4 x 3/32	1,200	1.06				
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			10 x 2-3/4 x 1/8	1,500	1.42	10 x 2-3/4 x 1/8	1,500	1.42				
			10 x 2-3/4 x 1/2	600	5.50	10 x 2-3/4 x 1/2	600	5.50				
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			24 x 3 x 1/4	600	5.61	24 x 3 x 1/4	600	5.61				
			24 x 4 x 1/2	500	10.89	24 x 4 x 1/2	500	10.89				

Flatsheet 			Gator-Studs Gator-nuts 			Special Shapes 			Epoxy Kits 		
Sizes in Inches	Minimum Mill Run	Lbs. per Lin. Ft.	Sizes in Inches	Lbs. per Lin. Ft.	Sizes in Inches	Minimum Mill Run	Lbs. per Lin. Ft.	Sizes in Inches	Minimum Mill Run	Lbs. per Lin. Ft.	
1/8 x 48 x 96	188 Shts.	1.41	Gator - Stud		Toe Plate			1/2 GALLON KIT			
3/16 x 48 x 96	140 Shts.	1.71	3/8" - 16 UNC	.08	4 x 2 x 1/8	2,500	0.53	(includes 1 quart base and 1 quart hardner)			
1/4 x 48 x 96	94 Shts.	2.34	1/2" - 13 UNC	.13	Embedment Angle 			10 Gallon Kit			
3/8 x 48 x 96	63 Shts.	3.54	5/8" - 11 UNC	.21				(includes 5 gallons base and 5 gallons hardner)			
1/2 x 48 x 96	47 Shts.	4.68	3/4" - 10 UNC	.32	1 x 1-1/2 x 1/4	1,400	1.00	1 Gallon Kit			
5/8 x 48 x 96	40 Shts.	5.79	1" - 8 UNC	.59	1-1/2 x 1-1/2 x 1/4	1,300	1.10				
3/4 x 48 x 96	30 Shts.	6.94			2 x 1-1/2 x 1/4	1,200	1.20				
1 x 48 x 96	20 Shts.	9.27									
Flatsheet is stocked in 4' x 8' sheets			Gator - Nut								
Flat Strip 			3/8" - 16 UNC	0.64							
			1/2" - 13 UNC	1.26							
Sizes in Inches Minimum Mill Run Lbs. per Lin. Ft.			5/8" - 11 UNC	1.12							
1/8 x 2-1/2	10,000	0.23	3/4" - 10 UNC	1.42							
1/8 x 4	6,000	0.37	1" - 8 UNC	1.65							
3/16 x 2-1/2	6,000	0.34	All Gator-Studs/Nuts are stocked in 48" and 96" lengths and are made with our VFR Resin System.								
3/16 x 4	5,000	0.55									
1/4 x 4	3,000	0.73									
1/4 x 6	2,000	1.10									
1/4 x 9	1,500	1.64									
3/8 x 3	3,000	0.82									
3/8 x 6	1,500	1.64									
1/2 x 2	3,000	0.73									
Many other flat strips are available. Consult factory for other sizes.											

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. 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 do

they ever require painting. Available in both polyester and vinylester resin systems, they are 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 colors: Gray (polyester resin) and Beige (vinylester resin). Custom colors are available on request.

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



Seasafe Cable Tray is U.S. Coast Guard Accepted

STRAIGHT SECTIONS All tray tested per NEMA FG-1

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

Series 6B

Loading - NEMA 20B

Available: widths

6" - 9" - 12" - 18"
24" - 30" - 36"

Series 6C

Loading - NEMA 20C-S.F.1.5

Rung spacing

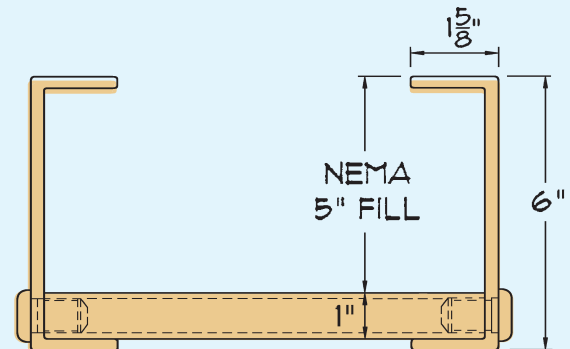
6" - 9" - 12" - 18"

Series H6C

Loading - NEMA 20C-S.F. 2.0

Length

120" (10')
240" (20')



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

Series 4

Loading - NEMA 12C

Available: widths

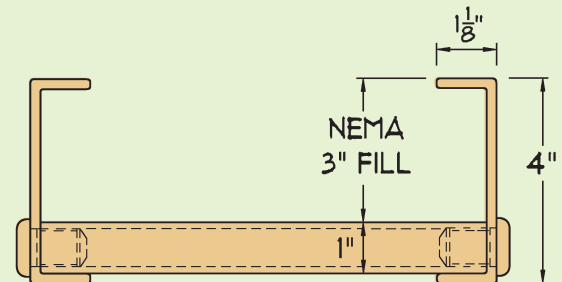
6" - 9" - 12" - 18"
24" - 30" - 36"

Rung spacing

6" - 9" - 12" - 18"

Length

120" (10')
240" (20')



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

Series 3

Loading - NEMA 8C

Available: widths

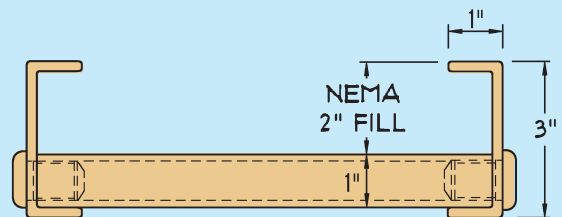
6" - 9" - 12" - 18" -
24" - 30" - 36"

Rung spacing

6" - 9" - 12" - 18"

Length

120" (10')
240" (20')



FITTINGS

6" Series

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

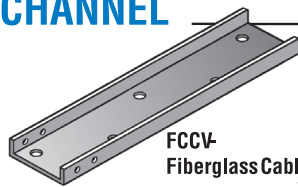
4" Series

3" Series

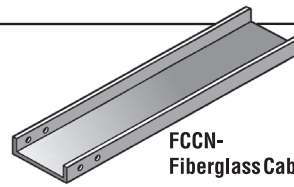


FIBERGLASS CABLE TRAY SYSTEMS

CABLE CHANNEL



FCCV
Fiberglass Cable Channel Ventilated



FCCN
Fiberglass Cable Channel Non-Ventilated

Polyester	Vinylester	Width (in.)	Length (ft.)	Height (in.)
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

Polyester	Vinylester	Width (in.)	Length (ft.)	Height (in.)
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

ACCESSORIES

SPLICE PLATE SECTIONS- example:

X	SS	4	00	4	()	SS6	
X = Seasafe Accessory #	SS - Stainless Steel F () - Fiberglass P - Polyester V - Vinylester	4 - # of holes in plate 8 - # of holes in plate	00 - Straight 01 - Slotted Straight 02 - Vertical Adjustable 03 - Horizontal Adjustable	04 - Step Down 05 - Tray to Box 30 - 30° Angle 45 - 45° Angle 90 - 90° Angle	3" - Applicable Tray System 4" " 6" "	V - Vertical H - Horizontal	Hardware SS6 - 316 Stainless Steel MO - Monel SB - Silicon Bronze FR - Fiberglass

COVERS

FC	P	W	120
FC = Type Cover - (FC) or (PC)	Material P - Polyester V - Vinylester	W* = Insert tray width	120 = Length or fitting description

FC - Flat Cover PC - Peaked Cover

BARRIERS

Straight

Catalog Description	Side Rail Height
BS 06P - 120	6"
BS 04P - 120	4"
BS 03P - 120	3"

*Insert (V) for (P) if Vinylester resin required.

*Barrier section furnished with #6 self-drilling stainless steel screws.

COVER CLAMPS

Covers shipped with 10 pcs. #6 stainless self-drilling screws unless other type of fastening specified

"C" Style Clamp		Wrap Around Style	
Polyester	Vinylester	Polyester	
XCC-P-9013	XCC-V-9013	XWC-P-W*-9034	
XCC-P-9014	XCC-V-9014	XWC-P-W*-9044	
XCC-P-9016	XCC-V-9016	XWC-P-W*-9064	

TRAY CLAMP / GUIDECOMBINATION

XFP - 1208 - Nonmetallic - designed for 3/8" hardware - not included
XSS - 1205 - 316 Stainless Steel - designed for 3/8" hardware - not included

HOW TO SPECIFY SEASAFE CABLE TRAY?

STRAIGHT SECTIONS- example:

6C	P	09	24	120
Series 6B 6C H6C 4 3	Material P - Polyester Resin V - Vinylester Resin	Rung Spacing 6" 9" 12" 18"	Width 6" 24" 9" 30" 12" 36" 18"	Length 120" = 10 ft 240" = 20 ft

FITTING SECTIONS- example:

4	P	24	90	HB	24
Height 6" 4" 3"	Material P - Polyester Resin V - Vinylester Resin	Width 6" 24" 9" 30" 12" 36" 18"	Angle 30° 45° 60° 90°	Type HB - Horizontal Bend HX - Horizontal Cross HT - Horizontal Tee VI - Vertical Inside Bend VO - Vertical Outside Bend VTU - Vertical Tee, Up CSF - Cable Support Fitting	Radius 12" 24" 36"

FIBERGLASS STRUT SYSTEMS

Seasafe is proud to present our new line of Fiberglass Strut and Accessories. You'll find a complete 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.

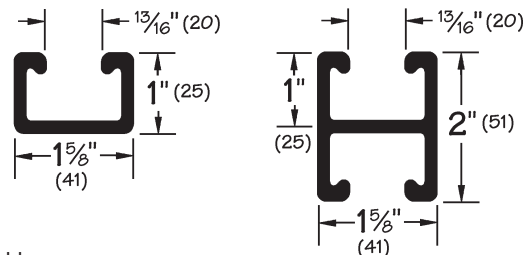
To assist you in selecting the correct Seasafe Strut Products quickly and easily, a comprehensive Part Number Index is available. Please contact your Seasafe representative for our complete guide to Seasafe fiberglass strut systems.

If you know the part you need, you'll find it fast. The rest of 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!

CHANNELS, COMBINATIONS & HOLE PATTERNS

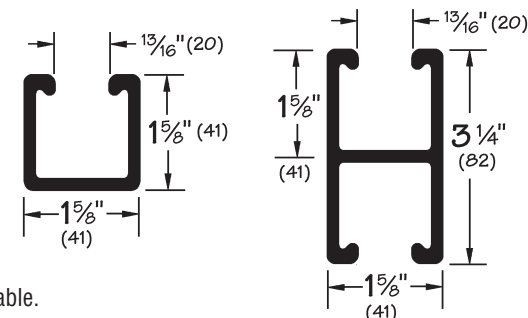
Part No.	Material/Resin	Description	Color	Weight	
				lbs. / ft.	kg / m
SSP-100	Polyester	Solid Back	Gray	.47	.70
SSV-100	Vinylester	Solid Back	Beige	.47	.70
SSP-100-D	Polyester	Solid Back	Gray	.86	1.28
SSV-100-D	Vinylester	Solid Back	Beige	.86	1.28

Stocked in 10' (3.05 m) and 20' (6.09 m) length. Cut-to-length channel also available.



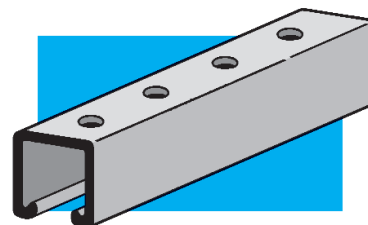
Part No.	Material/Resin	Description	Color	Weight	
				lbs. / ft.	kg / m
SSP-158	Polyester	Solid Back	Gray	.63	.94
SSV-158	Vinylester	Solid Back	Beige	.63	.94
SSP-158-D	Polyester	Solid Back	Gray	1.17	1.75
SSV-158-D	Vinylester	Solid Back	Beige	1.17	1.75

Stocked in 10' (3.05 m) and 20' (6.09 m) length. Cut-to-length channel also available.



Part No.	Material/Resin	Description	Color	Weight	
				lbs. / ft.	kg / m
SSP-100-H	Polyester	Holes in Back	Gray	.45	.67
SSV-100-H	Vinylester	Holes in Back	Beige	.45	.67
SSP-158-H	Polyester	Holes in Back	Gray	.61	.91
SSV-158-H	Vinylester	Holes in Back	Beige	.61	.91

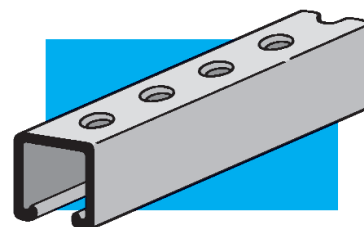
Stocked in 10' (3.05 m) and 20' (6.09 m) length. Cut-to-length channel also available.



Holes - 9/16" (14.3) holes X 1 7/8" (47.6) on center

Part No.	Material/Resin	Description	Color	Weight	
				lbs. / ft.	kg / m
SSP-100-S	Polyester	Slots in Back	Gray	.46	.69
SSV-100-S	Vinylester	Slots in Back	Beige	.46	.69
SSP-158-S	Polyester	Slots in Back	Gray	.62	.93
SSV-158-S	Vinylester	Slots in Back	Beige	.62	.93

Stocked in 10' (3.05 m) and 20' (6.09 m) length. Cut-to-length channel also available.



Slots - 9/16" (14.3) holes X 7/8" (22.2) slots X 2" (50.8) on center

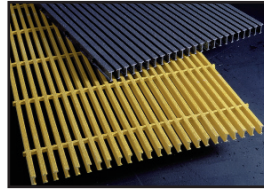
SEASAFE FRP PRODUCTS

Fiberglass Structural Systems Seasafe structural systems offer a variety of high-strength, maintenance-free products. Ask about our custom capabilities including design and engineering, as well as manufacturing.

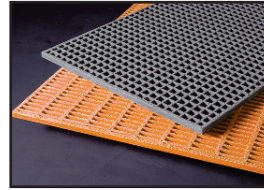
GRATING

GatorDeck Pultruded Grating – Competitively priced – ideal for long spans

GatorGrate Molded Grating – Bi-directional strength – integral anti-slip top surface



**GatorDeck
Pultruded Grating**



**GatorGrate
Molded Grating**

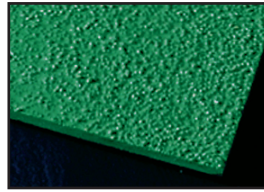


**Fabricated
GatorGrate**

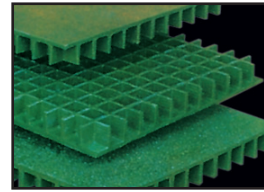
FLOOR PLATE

GatorPlate Floor Plate – Anti-slip surface for slippery spots or large areas

GatorGrate Covered Grating – Combines grating and floor plate in one integral panel



**GatorPlate Molded
Floor Plate**



**Seasafe Covered
Grating**



**Cable Tray
Systems**

CABLE TRAY SYSTEMS

STAIR TREADS & COVERS

GatorDeck Pultruded Stair Treads – Economical – 6 span widths, 2 resins, 2 colors

GatorGrate Molded Stair Treads – Carries more load than other molded stair treads

Seasafe Stair Tread Covers – Overlay wooden, metal or concrete stairs for added safety



**GatorDeck Pultruded
Stair Treads**



**GatorGrate Molded
Stair Treads**



**Seasafe Stair Tread
Covers**

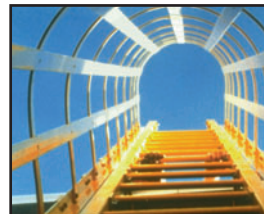
HANDRAILS – Seasafe Pultruded Handrails built to OSHA standards

LADDERS – Seasafe Safety Ladders & Caged Ladders – Positive traction and easy gripping for safety

STRUCTURAL SHAPES – Seasafe Custom Shapes plus I-beams, wide flange beams, channels, bars, round and square tubes



**Seasafe Pultruded
Handrails**



**Seasafe Ladders
& Caged Ladders**



**Fabricated Structural
Shapes**



SEE US ON THE WEB

Site covers 50 pages and includes a complete set of model grating specifications for each of three types of grating, all in downloadable pdf format. Load and deflection tables (pdf) are provided, together with standard panel sizes and weights, plus resin color and surface options. Site includes details on full line of Seasafe products.

www.seasafe.com.



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