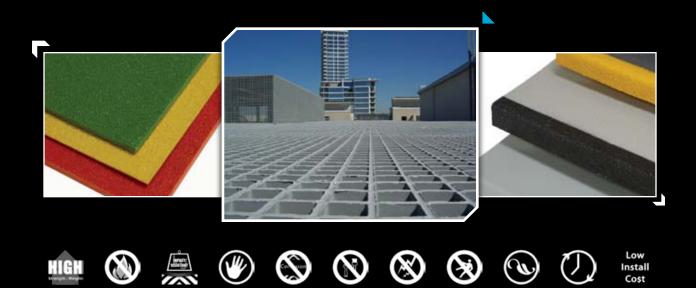


High Performance Composite Solutions



Fiberglass Molded Products

Introduction



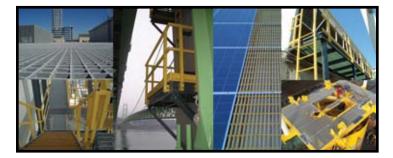
Combining unmatched corrosion resistance with strength, long life and safety, Fibergrate Composite Structures Inc. sets the standard for fiberglass reinforced plastic (FRP) molded products. With more than ten custom resins, Fibergrate products are proven to deliver years of reliable service, even in the most demanding corrosive conditions — conditions which cause conventional metallic and wood products to deteriorate rapidly.

Fibergrate products are lightweight and easy to fabricate. Savings on labor and equipment often make the total installed cost of Fibergrate products comparable to that of steel. Combining these installation savings with low maintenance, long life and worker safety, Fibergrate products offer a life cycle cost that is significantly lower than that of metallic products.

Fibergrate's molded grating line includes Fibergrate[®] molded grating for most applications, Fibergrate[®] molded high load capacity grating for H-20 and forklift traffic, Micro-Mesh[®] access flooring, Ecograte[®] for docks and marinas, Airmesh[®] screening and Multigrid[®] grating. For applications requiring a solid walkway, Fibergrate carries Fiberplate[®] structural floor panels and Fibergrate[®] covered grating. Stair solutions include Fibertred[®] stair treads panels for industrial and commercial use, covered stair treads for architectural applications and stair tread covers for existing stairways. Ergonomic work platform solutions include Safe-T-Stand[®] platforms, which are available in varying heights, and raised ergonomic workmats. Fibergrate has recently consolidated its Chemgrate[®] (Chemplate[®], Chemdeck[®] and Chemtred[®]) product line into the Fibergrate product line.

Fibergrate's complete line of molded products and turnkey services offers a variety of solutions for most applications.

Fibergrate Markets



- Architectural
- Bridge & Highway
- Chemical
- Commercial
- Food & Beverage
- Manufacturing
- Metals & Mining
- Microelectronics

- Oil & Gas
- Pharmaceutical
- Power
- Pulp & Paper
- Recreation
- Telecommunications
- Transportation
- Water & Wastewater

Fibergrate[®] Benefits



Corrosion Resistant: Fibergrate® molded fiberglass products are known for their ability to provide corrosion resistance in the harshest environments and chemical exposures.



Slip Resistant: The meniscus and integrally applied grit surfaces of Fibergrate molded products have unmatched slip resistance for improved worker safety.



Low Maintenance: The corrosion resistant properties of FRP grating and other products reduce or eliminate the need for sandblasting, scraping and painting. Products are also easily cleaned with a high pressure washer.



Fire Retardant: Flame spread rating of 25 or less, as tested in accordance with ASTM E-84, and meets the self-extinguishing requirements of ASTM D-635.



High Strength to Weight Ratio: Less than one-half the weight of steel grating, allowing easy removal for access below floor level and installation with no heavy equipment and less manpower.



Electrically & Thermally Non Conductive:

Fiberglass is electrically non conductive for safety and has low thermal conductivity which results in a more comfortable product when physical contact occurs.



Impact Resistant: Fibergrate molded products show superior impact resistance when compared to steel gratings.



Low Install Cost: Due to ease of fabrication and light weight, FRP molded grating eliminates the need for heavy lifting equipment.



Long Service Life: Fiberglass products provide outstanding durability and corrosion resistance in demanding applications, therefore providing improved product life over traditional materials.



NSF[®] Standard 61-Certified:

NSF Standard 61-Certified molded grating is available in all Fibergrate[®] molded grating mesh patterns and thicknesses, except Ecograte[®] and 4 x 12 Micro-Mesh[®] panels. These

molded gratings complement the complete line of NSF Standard 61-Certified Dynaform® fiberglass structural shapes, Dynarail® FRP handrail and ladder systems, and Safe-T-Span® pultruded gratings assembled from NSF Standard 61-Certified components.



Heavy Metal Safe:

The EPA, OSHA and other regulatory agencies created to

protect our lives and our natural resources have increased legislation to control heavy metals such as lead, chrome, cadmium and other metals in all products where exposure is a health threat. Fibergrate Composite Structures Inc. supports this strengthened legislation and has, for more than 20 years, voluntarily tested for heavy metals in our products and minimized or eliminated heavy metals from our products.

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Molded Grating Selection and Details

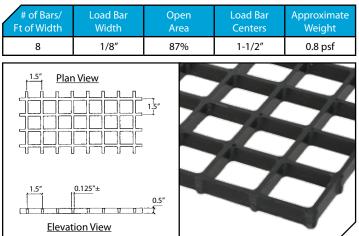
Fibergrate[®] Molded Grating

| Brand | Depth | Mesh | Standard Panel Sizes | Wt. Per Sq. Ft. | Open Area |
|--------------------------------------|--------|--|---------------------------------------|--------------------|--------------|
| Airmesh® | 1/2" | 1-1/2" x 1-1/2" square | 4' x 8' (non-load carrying product) | 0.8 lb | 87% |
| Multigrid® 1/2" 2" x 2" square | | 4' x 12', 4' x 15' (must be fully supported) | 1.0 lb | 82% | |
| Fibergrate® 5/8" 1" x 4" rectangular | | 12' x 4' | 2.1 lb | 58% | |
| Fibergrate 3/4" 1" | | 1" x 4" rectangular | 10' x 3', 8' x 4' | 2.5 lb | 69% |
| Fibergrate 3/4" | | 1-1/2" x 1-1/2" square | 3' x 10', 4' x 8', 4' x 12' | 2.0 lb | 70% |
| Micro-Mesh® 👆 1" | | Top 3/4" sq, Btm 1-1/2" sq | 4' x 12' | 2.9 lb | 44.4% |
| Fibergrate 1" | | 1" x 4" rectangular | 10' x 3', 8' x 4' | 2.5 lb | 69% |
| Fibergrate | 1" | 1" x 4" rectangular | 12' x 4' | 2.6 lb | 65% |
| Fibergrate | 1" | 1-1/2" x 1-1/2" square | 3' x 10', 4' x 8', 4' x 12' | 2.5 lb | 70% |
| Fibergrate | 1" | 2" x 2" square | 4' x 12' | 1.7 lb | 76% |
| Fibergrate | 1-1/4″ | 1-1/2" x 1-1/2" square | 3' x 10', 4' x 8', 4' x 12', 5' x 10' | 3.2 lb | 70% |
| Fibergrate | 1-1/2" | 1-1/2" x 1-1/2" square | 3' x 10', 4' x 8', 4' x 12', 5' x 10' | 3.7 lb | 70% |
| High Load 🛛 🗛 🖵 | 1-1/2" | 1" x 2" rectangular | 6' x 4' | 6.2 lb | 48% |
| Micro-Mesh® 占 | 1-1/2" | Top 3/4" sq, Btm 1-1/2" sq | 2' x 2', 4' x 12' | 5.0 lb | 44% |
| Fibergrate | 2" | 2" x 2" square | 4' x 12' | 4.0 lb | 72% |
| High Load 🛛 🗛 🖵 | 2" | 1" x 2" rectangular | 6' x 4' | 8.4 lb | 48% |

See page 8 for surface selection.

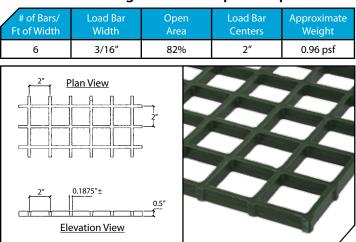
Grating Details

Airmesh® 1/2" Deep x 1-1/2" Square Mesh



Designed for screening applications only

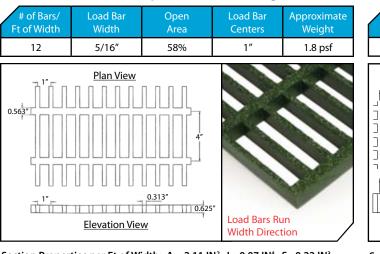
Multigrid[®] 1/2" Deep x 2" Square Mesh



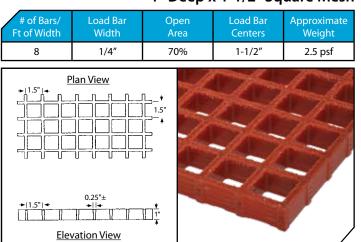
Must be fully supported in walking surface applications

Molded Grating Details

5/8" Deep x 1" x 4" Rectangular Mesh*



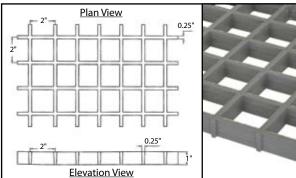
<u>Section Properties per Ft of Width</u>: $A = 2.11 \text{ IN}^2$ $I = 0.07 \text{ IN}^4$ $S = 0.22 \text{ IN}^3$ *Not available with meniscus top surface (only grit)



Section Properties per Ft of Width: A = 1.71 IN² I = 0.14 IN⁴ S= 0.29 IN³

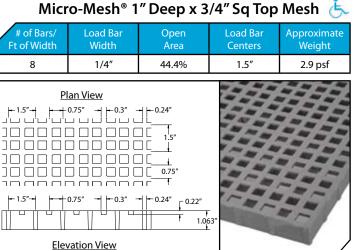
1" Deep x 2" Square Mesh





Section Properties per Ft of Width: $A = 1.27 \text{ IN}^2$ $I = 0.11 \text{ IN}^4$ $S = 0.21 \text{ IN}^3$

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Section Properties per Ft of Width: $A = 2.34 \text{ IN}^2$ I = 0.23 IN⁴ S = 0.37 IN³

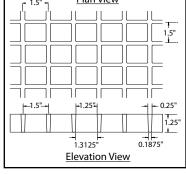
1" Deep x 1-1/2" Square Mesh

Load Bar Load Bar Approx. Panel Sizes Ft of Width Width Weiaht 10' x 3' 8' x 4' Dim. A 12 1/4" 69% 1″ 2.5 psf Dim, B 12' x 4' 12 1/2″ 65% 1″ 2.6 psf Plan View Dim. B Dim. A 0.375"± 0.5' |1"|-יחחחחחחחחחחח 0.25"± → |1"| ◄ Load Bars Run Width Direction **Elevation View**

<u>Section Properties per Ft of Width</u>: $A = 2.57 \text{ IN}^2$ $I = 0.22 \text{ IN}^4$ $S = 0.43 \text{ IN}^3$ *4' x 12' Panel Only - Not available with meniscus top surface (only grit)

1-1/4" Deep x 1-1/2" Square Mesh*

| | - | | | |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| # of Bars/ Ft of Width | Load Bar Width | Open Area | Load Bar Centers | Approximate Weight |
| 8 | 1/4″ | 70% | 1-1/2″ | 3.2 psf |
| <mark>ך</mark> 1.5" – | Plan View | 7 | -f- | T |



Section Properties per Ft of Width: A = 2.16 IN² I = 0.32 IN⁴ S = 0.48 IN³ *Not available with meniscus top surface (only grit)

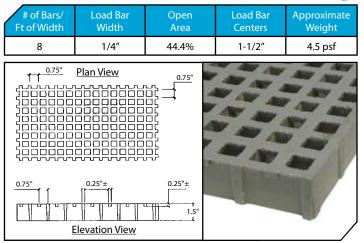
1" Deep x 1" x 4" Rectangular Mesh*

Molded Grating Details

1-1/2" Deep x 1-1/2" Square Mesh Load Bar # of Bars/ Load Bar Approximate Ft of Width Width Weight Area 1/4″ 8 70% 1-1/2" 3.75 psf Plan View 1.5 0 25"+ **Elevation View**

Section Properties per Ft of Width: A = 2.85 IN² I = 0.51 IN⁴ S= 0.65 IN³

Micro-Mesh[®] 1-1/2" Deep x 3/4" Sq Top Mesh



Section Properties per Ft of Width: A = 2.85 IN² I = 0.51 IN⁴ S= 0.65 IN³

HLC 2" Deep x 1" x 2" Rectangular Mesh # of Bars/ Load Bar Approximate Open Load Bar Weight Ft of Width Width Area Centers 0.48″ 12 48% 1″ 8.4 psf Plan View + 0 48 **Elevation View**

Section Properties per Ft of Width: A = 10.26 IN² I = 3.4 IN⁴ S = 3.27 IN³

HLC 1-1/2" Deep x 1" x 2" Rectangular Mesh

| # of Bars/ Ft of Width | Load Bar Width | Open Area | Load Bar Centers | Approximate Weight | | |
|---------------------------|-------------------|--------------|---------------------|-----------------------|--|--|
| 12 | 0.43″ | 48% | 1″ | 6.2 psf | | |
| + 1" + 0.33 | | | | | | |

Section Properties per Ft of Width: A = 7.45 IN² I = 1.39 IN⁴ S = 1.80 IN³

2" Deep x 2" Square Mesh # of Bars/ Load Bar Open Load Bar Approximate Ft of Width Weight Width Area 6 1/4" 72% 2″ 4.0 psf Plan View 2 2' Elevation View

Section Properties per Ft of Width: A = 2.88 IN² I = 0.96 IN⁴ S = 0.94 IN³

Also Available: Custom Grids

By drawing on our experience as the leader of FRP molded grating, Fibergrate employs unique design approaches to customers' needs and visions through the manufacturing of custom grating grids. This area of design and manufacture has provided solutions for diverse industries, including mass transit, environmental controls, entertainment, and security markets. Focusing on the attributes of molded grating: durability; corrosion resistant; one-piece construction; we can engineer custom grid solutions for shade, air flow, corrosion protection, strength, and other requirements.

Molded Grating Resins

Corrosion in the workplace negatively impacts your bottom line. Each year, industrial plant executives eliminate expensive corrosion-related maintenance problems by switching to Fibergrate[®] molded grating. Various applications present different requirements so Fibergrate offers numerous standard resin systems to address multiple needs.

Fibergrate[®] Standard Resins

Vi-Corr[®]: A superior vinyl ester resin developed for reliable performance in the toughest environments. It offers outstanding resistance to a wide range of highly corrosive situations, from caustic to acidic. In fact, no other resin system can match the performance of Vi-Corr in highly acidic environments. Vi-Corr has replaced VE-25. Color: orange or dark gray. Flame spread: ASTM E84 rating of 25 or less. Certifications: DNV Type Approval No. F-16856; ABS Type Approval No. 01-HS34733-X; meets the USCG requirements for general fire rating*.

FGI-AM[®]: This improved food-grade isophthalic polyester resin system offers antimicrobial properties to inhibit the growth of bacteria on the surface of the composite to protect the product itself, along with the necessary corrosion resistance to meet the requirements of the food and beverage industry. This product is intended only for non-public health uses. Color: light gray, or green. Flame Spread: ASTM E84 rating of 25 or less. Certifications: USDA Approvable.

Corvex[®]: This newly improved isophthalic polyester resin system outperforms a number of competitive fiberglass and metal products and meets the requirements for corrosion resistance found in industrial, chemical processing and water/wastewater applications. This upgraded formulation has replaced IFR, CP-84 and FS-25 resins. Color: yellow, dark gray, or dark green. Flame Spread: ASTM E84 rating of 25 or less. Certifications: DNV Type Approval No. F-16856; meets the USCG requirements for general fire rating*.

XFR: This eXtra Fire Retardant vinyl ester resin is recommended for use where the fire potential is high. Color: dark gray. Flame Spread: ASTM E84 rating of 10 or less, a level exceeded by no other resin system. Certifications: DNV Type Approval No. F-16856; meets the USCG requirements for general fire rating*.

ELS: This Extremely Low Smoke resin is an acrylic-modified polyester system that is ideal for tunnel, offshore, mass transit and other confined space applications. ELS exhibits low ignitability, low smoke generation and extremely low smoke toxicity. Color: light gray. Flame Spread: ASTM E84: flame spread index of 25 or less, a smoke developed index of 100 or less and Fuel Contribution of 0. Certifications: DNV Type Approval No. F-16856; meets the USCG requirements for general fire rating*.

Super Vi-Corr[®]: This family of resin systems consists of more than 30 custom formulas engineered to provide corrosion control solutions in applications that are too severe for conventional FRP and other building materials. Each Super Vi-Corr resin was engineered for the best possible performance in specific chemical and/or elevated temperature environments. These systems exist for aggressive chemical service in reagents like solvents, acidic oxidizers, chlorine dioxide, sodium hypochlorite and liquid desiccants. Certain formulas are also suited for elevated temperature applications up to 400° F. Super Vi-Corr gratings are typically used for packing hold-downs and support in environmental and process scrubber applications. Color: natural - tan to beige. Flame Spread: non fire retardant, unless specified.

*For specific requirements and questions, please contact technical services.

Specialty

Fibergrate also offers specialty resins custom designed to meet your specific needs. These special formulations are developed to address unique and demanding services and applications, as well as niche market needs (Super Vi-Corr family of resins).

We can engineer resin systems to address temperature, flame, smoke and toxicity requirements. Our HSUV resin system was developed to address the intense UV effects found in offshore applications. Fibergrate's custom formulations with low smoke/ toxicity properties were engineered with the United States Navy for below-deck marine service.

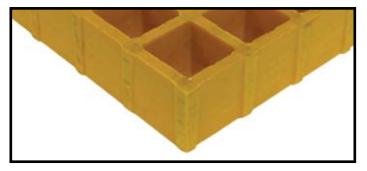
Architectural Formulations: Fibergrate's standard formulations are designed for industrial and corrosive applications. Special formulations and colors are required to meet the unique demands of architectural, fountain and pool projects. Please contact Fibergrate for additional information.

Molded Grating Surfaces and Options

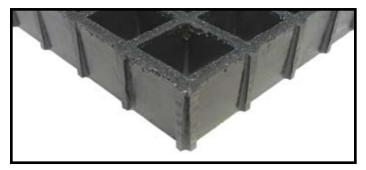
Slip Resistant Surfaces

Slips and falls are the second leading cause of industrial accidents. According to the National Safety Council, each injury related lost work day can cost \$50,000 to \$100,000. That is why Fibergrate developed two slip resistant surfaces for flooring and stair solutions. These surfaces include meniscus and integrally applied grit tops in the Fibergrate resins.

Available Surfaces for Molded Grating



Meniscus Top: The concave surface of Fibergrate[®] meniscus top grating provides superior slip resistant footing in most environments including wet or oily conditions and is the standard surface for all Fibergrate molded gratings.





Please note - The following molded grating panels are **only available with the grit top** surface (meniscus top not an option): 5/8" deep, 1"x 4" rect. mesh, 12' x 4' panel; 1" depth, 1" x 4" rect. mesh, 12' x 4' panel; 1-1/4" deep, 1-1/2" square mesh

Specialty Molded Products

FRP Conductive Surface: Fibergrate can provide a secondarily applied conductive surface which drains off the build-up of unwanted, dangerous static electricity when properly grounded. This specialized surface produces an electrical resistance of less than 26 kilo-ohms per foot, while the grating retains all of the other desirable corrosion resistant, fire retardant, impact resistant and lightweight characteristics of conventional fiberglass reinforced plastic (FRP) grating.

Fibergrate HF Molded Grating: Fibergrate has combined a premium-grade vinyl ester resin and exotic reinforcements to manufacture the only molded grating system suitable for service in harsh hydrofluoric acid applications. HF Molded Grating, a non fire retardant system, can see service in applications that would cause premature failure in most traditional molded grating systems.

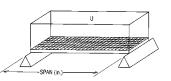
NSF[®] Standard 61-Certified Molded Gratings: Fibergrate now manufactures NSF Standard 61-Certified grating. NSF formulated molded grating is available by special order in dark gray and light gray colors. Molded grating is also available in all of the molded grating mesh patterns and grating thicknesses, except Ecograte[®] and 4 x 12 Micro-Mesh[®] panels. Our NSF Standard 61-Certified structural shapes, handrails, ladders and pultruded components can be combined to create valuable, long-lasting stairways, walkways and platforms.

Custom Molded Products

Fibergrate has the capability to offer molded grating configurations designed/manufactured to meet your unique application requirements. Fibergrate's custom services include special molded grating configurations as well as custom hand-lay-up (HLU) products for industrial and architectural applications designed to meet your specific performance requirements.

Load Tables - Fibergrate® Molded Gratings

Uniform load tables for Fibergrate 1x1x1 grating, Micro-Mesh® 1-1/8 deep grating, and alternate thickness Fibergrate grating (3/4x1x4, 3/4x1-1/2x1-1/2, 1-1/4x1-1/2x1-1/2) can be found on our website - www.fibergrate.com - under *Products, Molded Grating, Fibergrate Molded Gratings* and click on *Additional Load Tables*.



*Also represents load data for Micro-Mesh 1-1/2" deep x 3/4" square top mesh grating (4' x 12') panel.

| MOLDED | GRATING | | D TABLE | S - DEF | LECTIO | n in inc | HES | | | | | MAX | ULTIMATE |
|--------|---------|---------------|---------|---------|--------|----------|---------|------|------|------|------|--------|----------|
| CLEAR | | STYLE | | | | L | OAD (ps | sf) | | | | RECOM. | CAPACITY |
| SPAN | DEPTH | MESH | | | | | | | | | | LOAD | (psf) |
| (in) | (in) | (in x in) | 50 | 65 | 100 | 150 | 200 | 300 | 500 | 1000 | 2000 | (psf) | |
| (111) | 5/8 | 1 x 4 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.08 | | | | 1540 | 7720 |
| | 1 | 3/4 x 3/4 | <.01 | <.01 | <.01 | <.01 | 0.03 | 0.08 | 0.03 | 0.06 | 0.12 | 1770 | 8880 |
| | 1 | 1 x 4 | <.01 | <.01 | <.01 | <.01 | <.01 | 0.02 | 0.02 | 0.05 | 0.09 | 2140 | 10700 |
| 12 | 1 | 1-1/2 x 1-1/2 | <.01 | <.01 | <.01 | <.01 | <.01 | 0.02 | 0.04 | 0.08 | 0.16 | 1420 | 7120 |
| | 1 | 2 x 2 | <.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | | | | 1020 | 5140 |
| | 1-1/2* | 1-1/2 x 1-1/2 | <.01 | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 0.07 | 3200 | 16000 |
| | 2 | 2 x 2 | <.01 | <.01 | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 3840 | 19240 |
| | 5/8 | 1 x 4 | 0.05 | 0.07 | 0.11 | 0.16 | 0.22 | | | | | 680 | 3410 |
| | 1 | 3/4 x 3/4 | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.14 | 0.28 | | 780 | 3940 |
| | 1 | 1 x 4 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.07 | 0.11 | 0.22 | 0.44 | 950 | 4750 |
| 18 | 1 | 1-1/2 x 1-1/2 | 0.02 | 0.02 | 0.04 | 0.06 | 0.08 | 0.11 | 0.20 | 0.38 | | 630 | 3170 |
| | 1 | 2 x 2 | 0.04 | 0.05 | 0.08 | 0.11 | | | | | | 450 | 2290 |
| | 1-1/2* | 1-1/2 x 1-1/2 | <.01 | <.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.07 | 0.14 | 0.28 | 1420 | 7100 |
| | 2 | 2 x 2 | <.01 | <.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.09 | 0.17 | 1850 | 9280 |
| | 5/8 | 1 x 4 | 0.15 | 0.19 | 0.30 | 0.45 | | | | | | 380 | 1920 |
| | 1 | 3/4 x 3/4 | 0.04 | 0.05 | 0.08 | 0.12 | 0.16 | 0.24 | 0.41 | | | 440 | 2220 |
| | 1 | 1 x 4 | 0.04 | 0.05 | 0.07 | 0.11 | 0.15 | 0.22 | 0.37 | | | 530 | 2670 |
| 24 | 1 | 1-1/2 x 1-1/2 | 0.06 | 0.08 | 0.12 | 0.19 | 0.25 | 0.37 | | | | 350 | 1780 |
| | 1 | 2 x 2 | 0.11 | 0.14 | 0.21 | 0.32 | | | | | | 250 | 1280 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.12 | 0.21 | 0.42 | | 800 | 4000 |
| | 2 | 2 x 2 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.10 | 0.20 | | 1040 | 5220 |
| | 5/8 | 1 x 4 | 0.32 | 0.41 | | | | | | | | 240 | 1230 |
| | 1 | 3/4 x 3/4 | 0.10 | 0.13 | 0.20 | 0.29 | 0.39 | | | | | 280 | 1400 |
| | 1 | 1 x 4 | 0.08 | 0.11 | 0.17 | 0.26 | 0.34 | | | | | 340 | 1710 |
| 30 | 1 | 1-1/2 x 1-1/2 | 0.14 | 0.18 | 0.27 | 0.41 | | | | | | 220 | 1140 |
| | 1 | 2 x 2 | 0.24 | 0.31 | 0.48 | | | | | | | 160 | 820 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.05 | 0.06 | 0.09 | 0.14 | 0.18 | 0.27 | 0.46 | | | 510 | 2560 |
| | 2 | 2 x 2 | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.14 | 0.26 | 0.45 | | 660 | 3340 |
| | 1 | 3/4 x 3/4 | 0.20 | 0.26 | 0.40 | | | | | | | 190 | 990 |
| | 1 | 1 x 4 | 0.16 | 0.21 | 0.32 | 0.49 | | | | | | 230 | 1180 |
| 36 | 1 | 1-1/2 x 1-1/2 | 0.31 | 0.40 | | | | | | | | 150 | 790 |
| | 1 | 2 x 2 | 0.46 | | | | | | | | | 110 | 570 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.10 | 0.13 | 0.20 | 0.30 | 0.40 | | | | | 350 | 1770 |
| | 2 | 2 x 2 | 0.04 | 0.06 | 0.09 | 0.13 | 0.18 | 0.26 | 0.44 | | | 460 | 2320 |
| | 1 | 3/4 x 3/4 | 0.37 | 0.48 | | | | | | | | 140 | 720 |
| 40 | 1 | 1 x 4 | 0.33 | 0.43 | | | | | | | | 170 | 870 |
| 42 | 1 | 1-1/2 x 1-1/2 | 0.49 | | | | | | | | | 110 | 580 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.17 | 0.22 | 0.34 | | | | | | | 260 | 1300 |
| | 2 | 2 x 2 | 0.08 | 0.10 | 0.16 | 0.24 | 0.32 | 0.47 | | | | 340 | 1700 |
| 46 | 1 | 1 x 4 | 0.48 | | | | | | | | | 140 | 720 |
| 48 | 1-1/2* | 1-1/2 x 1-1/2 | 0.28 | 0.37 | | | | | | | | 200 | 1000 |
| | 2 | 2 x 2 | 0.14 | 0.18 | 0.28 | 0.42 | | | | | | 260 | 1300 |
| 54 | 1-1/2* | 1-1/2 x 1-1/2 | 0.42 | | | | | | | | | 150 | 790 |
| 54 | 2 | 2 x 2 | 0.21 | 0.27 | 0.42 | | | | | | | 200 | 1030 |
| 60 | 2 | 2 x 2 | 0.37 | 0.47 | | | | | | | | 160 | 830 |

NOTES:

1. All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association (ACMA).

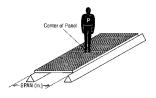
2. Maximum Recommended Load represents a 5:1 factor of safety on Ultimate Capacity.

4. For covered grating use a multiplier of 0.5. This is limited to gratings of 1" - 2" depths. It is not recommended covering 3/4" or 1/2" gratings.

3. Max recommended and ultimate loads do not change as a result of adding a 1/8" deep covered plate.

Load Tables - Fibergrate® Molded Gratings

Alternate thickness Fibergrate grating concentrated point load tables (1-1/4x1-1/2x1-1/2) can be found on our website - www.fibergrate.com - under Products, Molded Grating, Fibergrate Molded Gratings and click on Additional Load Tables.



* Also represents load data for Micro-Mesh 1-1/2" deep x 3/4" square top mesh grating (4' x 12') panel.

| - | | | | | - | | | | |
|-------|-------------|------------------------|--------------|--------------|--------------|--------------|--------------|----------|----------|
| CLEAR | | STYLE | | | | LOAD (lb) | | | |
| SPAN | DEPTH | MESH | | | | | | | |
| (in) | (in) | (in x in) | 50 | 100 | 200 | 300 | 500 | 1000 | 2000 |
| | 5/8 | 1 x 4 | 0.08 | 0.16 | 0.32 | 0.48 | | | |
| | 1 | 1 x 4 | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.11 | 0.22 |
| 18 | 1 | 1-1/2 x 1-1/2 | <.01 | 0.01 | 0.03 | 0.04 | 0.07 | 0.14 | 0.27 |
| | 1 | 2 x 2 | 0.04 <.01 | 0.08 | 0.16 0.01 | 0.24 0.02 | 0.40 0.03 | 0.06 | 0.13 |
| | 1-1/2* 2 | 1-1/2 x 1-1/2 2 x 2 | <.01 | <.01 <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.13 |
| | 5/8 | | 0.19 | 0.38 | | | | | |
| | 5/6 1 | 1 x 4 1 x 4 | 0.19 | 0.38 | 0.05 | 0.07 | 0.12 | 0.24 | 0.49 |
| | 1 | 1-1/2 x 1-1/2 | 0.01 | 0.02 | 0.05 | 0.08 | 0.12 | 0.24 | |
| 24 | 1 | 2 x 2 | 0.10 | 0.19 | 0.38 | | | | |
| | 1-1/2* | 1-1/2 x 1-1/2 | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.12 | 0.23 |
| | 2 | 2 x 2 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 0.07 | 0.14 |
| | 5/8 | 1 x 4 | 0.37 | | | | | | |
| | 1 | 1 x 4 | 0.02 | 0.05 | 0.09 | 0.14 | 0.23 | 0.45 | |
| 30 | 1 | 1-1/2 x 1-1/2 | 0.03 | 0.05 | 0.10 | 0.15 | 0.26 | | |
| | 1 1-1/2* | 2 x 2 | 0.19 | 0.37 | 0.04 | 0.06 | 0.10 | 0.20 | |
| | 1-1/2" | 1-1/2 x 1-1/2 2 x 2 | 0.01 <.01 | 0.02 0.01 | 0.04 | 0.06 | 0.10 | 0.20 | 0.23 |
| | | | | | | | | | |
| | 1 1 | 1 x 4 1-1/2 x 1-1/2 | 0.04 0.03 | 0.07 0.07 | 0.14 0.14 | 0.21 0.20 | 0.35 0.34 | | |
| 36 | 1 | 2 x 2 | 0.03 | 0.07 | 0.14 | 0.20 | 0.34 | | |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.02 | 0.03 | 0.06 | 0.09 | 0.15 | 0.30 | |
| | 2 | 2 x 2 | <.01 | 0.01 | 0.03 | 0.04 | 0.07 | 0.15 | 0.29 |
| | 1 | 1 x 4 | 0.05 | 0.11 | 0.21 | 0.32 | | | |
| 42 | 1 | 1-1/2 x 1-1/2 | 0.06 | 0.12 | 0.23 | 0.35 | | | |
| 42 | 1-1/2* | 1-1/2 x 1-1/2 | 0.05 | 0.04 | 0.09 | 0.13 | 0.22 | 0.44 | |
| | 2 | 2 x 2 | 0.01 | 0.02 | 0.05 | 0.08 | 0.12 | 0.25 | 0.50 |
| 46 | 1 | 1 x 4 | 0.07 | 0.13 | 0.26 | 0.39 | | | |
| 40 | 1 | 1-1/2 x 1-1/2 | 0.07 | 0.14 | 0.28 | 0.42 | | | |
| 40 | 1-1/2* | 1-1/2 x 1-1/2 | 0.03 | 0.06 | 0.12 | 0.18 | 0.29 | | |
| 48 | 2 | 2 x 2 | 0.01 | 0.03 | 0.06 | 0.09 | 0.15 | 0.30 | |
| 54 | 1-1/2* | 1-1/2 x 1-1/2 | 0.04 | 0.07 | 0.15 | 0.22 | 0.37 | | |
| 58 | 1-1/2* | 1-1/2 x 1-1/2 | 0.04 | 0.08 | 0.17 | 0.25 | 0.42 | | |

NOTES:

1. All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association (ACMA).

2. For covered grating use a multiplier of 0.5. This is limited to gratings of 1" - 2" depths. It is not recommended covering 3/4" or 1/2" gratings.

3. Max recommended and ultimate loads do not change as a result of adding a 1/8" deep covered plate.

Load Tables - Fibergrate® Molded Gratings

Concentrated line load tables for Fibergrate 1x1x1 grating, Micro-Mesh® 1-1/8 deep grating, and alternate thickness Fibergrate grating (3/4x1x4, 3/4x1-1/2x1-1/2, 1-1/4x1-1/2x1-1/2) can be found on our website - www.fibergrate.com - under *Products, Molded Grating, Fibergrate Molded Gratings* and click on *Additional Load Tables*.

* Also represents load data for Micro-Mesh 1-1/2" deep x 3/4" square top mesh grating (4' x 12') panel.

| MOLDED | GRATIN | G CONCENTRAT | ED LINE | LOAD TAE | BLES - DE | FLECTIO | | IES | | MAX | ULTIMATE |
|--------|---------------|---------------|---------|----------|-----------|---------------|--------|------|------|------------------|----------|
| CLEAR | | STYLE | | | LOAD | D (Ib/ft of v | width) | | | RECOM. | CAPACITY |
| SPAN | DEPTH | MESH | | | | | | | | LOAD (lbs/ft) | (lbs/ft) |
| (in) | (in) | (in x in) | 50 | 100 | 200 | 300 | 500 | 1000 | 2000 | (IDS/IL) | |
| . , | 5/8 | 1 x 4 | 0.02 | 0.04 | 0.09 | 0.13 | | | | 770 | 3860 |
| | 1 | 3/4 x 3/4 | <.01 | <.01 | 0.02 | 0.03 | 0.05 | 0.10 | 0.20 | 880 | 4440 |
| | 1 | 1 x 4 | <.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.08 | | 1070 | 5350 |
| 12 | 1 | 1-1/2 x 1-1/2 | <.01 | 0.01 | 0.03 | 0.04 | 0.06 | 0.13 | | 710 | 3560 |
| 12 | 1 | 2 x 2 | 0.02 | 0.03 | 0.06 | 0.09 | | | | 510 | 2570 |
| | 1-1/2* | 1-1/2 x 1-1/2 | <.01 | <.01 | 0.01 | 0.02 | 0.03 | 0.05 | 0.11 | 1600 | 8000 |
| | 2 | 2 x 2 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 1920 | 9620 |
| | 5/8 | 1 x 4 | 0.06 | 0.12 | 0.23 | 0.35 | | | | 510 | 2560 |
| | 1 | 3/4 x 3/4 | 0.01 | 0.03 | 0.06 | 0.09 | 0.15 | 0.29 | | 590 | 2960 |
| | 1 | 1 x 4 | 0.01 | 0.02 | 0.05 | 0.07 | 0.12 | 0.23 | | 710 | 3560 |
| 18 | 1 | 1-1/2 x 1-1/2 | 0.02 | 0.04 | 0.08 | 0.12 | 0.20 | 0.41 | | 470 | 2370 |
| | 1 | 2 x 2 | 0.04 | 0.08 | 0.16 | | | | | 340 | 1710 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.01 | 0.02 | 0.03 | 0.05 | 0.08 | 0.15 | 0.30 | 1060 | 5330 |
| | 2 | 2 x 2 | <.01 | 0.01 | 0.02 | 0.03 | 0.05 | 0.09 | 0.18 | 1390 | 6960 |
| | 5/8 | 1 x 4 | 0.12 | 0.24 | 0.48 | | | | | 380 | 1920 |
| | 1 | 3/4 x 3/4 | 0.03 | 0.07 | 0.13 | 0.20 | 0.33 | | | 440 | 2220 |
| | 1 | 1 x 4 | 0.03 | 0.06 | 0.12 | 0.18 | 0.30 | | | 530 | 2670 |
| 24 | 1 | 1-1/2 x 1-1/2 | 0.05 | 0.10 | 0.20 | 0.30 | 0.49 | | | 350 | 1780 |
| | 1 | 2 x 2 | 0.09 | 0.17 | | | | | | 250 | 1280 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.02 | 0.03 | 0.07 | 0.10 | 0.17 | 0.33 | | 800 | 4000 |
| | 2 | 2 x 2 | 0.01 | 0.02 | 0.03 | 0.05 | 0.08 | 0.16 | | 1040 | 5220 |
| | 5/8 | 1 x 4 | 0.20 | 0.41 | | | | | | 300 | 1530 |
| | 1 | 3/4 x 3/4 | 0.06 | 0.13 | 0.25 | 0.38 | | | | 350 | 1770 |
| | 1 | 1 x 4 | 0.05 | 0.11 | 0.22 | 0.32 | | | | 420 | 2140 |
| 30 | 1 | 1-1/2 x 1-1/2 | 0.09 | 0.18 | 0.35 | | | | | 280 | 1420 |
| | 1 | 2 x 2 | 0.15 | 0.31 | | | | | | 200 | 1020 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.03 | 0.06 | 0.12 | 0.18 | 0.29 | | | 640 | 3200 |
| | 2 | 2 x 2 | 0.01 | 0.03 | 0.06 | 0.09 | 0.14 | 0.29 | | 830 | 4180 |
| | 5/8 | 1 x 4 | 0.32 | | | | | | | 250 | 1270 |
| | 1 | 3/4 x 3/4 | 0.11 | 0.21 | 0.42 | | | | | 290 | 1480 |
| | 1 | 1 x 4 | 0.09 | 0.17 | 0.34 | | | | | 350 | 1780 |
| 36 | 1 | 1-1/2 x 1-1/2 | 0.16 | 0.33 | | | | | | 230 | 1180 |
| | 1 | 2 x 2 | 0.25 | 0.49 | | | | | | 170 | 850 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.05 | 0.11 | 0.21 | 0.32 | | | | 530 | 2660 |
| | 2 | 2 x 2 | 0.02 | 0.05 | 0.09 | 0.14 | 0.23 | 0.47 | | 690 | 3480 |
| | 1 | 3/4 x 3/4 | 0.17 | 0.34 | | | | | | 250 | 1260 |
| | 1 | 1 x 4 | 0.15 | 0.30 | | | | | | 300 | 1520 |
| 42 | 1 | 1-1/2 x 1-1/2 | 0.26 | 0.45 | | | | | | 200 | 1010 |
| | 1 | 2 x 2 | 0.38 | | | | | | | 140 | 730 |
| | 1-1/2* | 1-1/2 x 1-1/2 | 0.08 | 0.16 | 0.32 | 0.47 | | | | 450 | 2280 |
| | 2 | 2 x 2 | 0.04 | 0.07 | 0.14 | 0.22 | 0.36 | | | 590 | 2980 |
| 46 | 1 | 1 x 4 | 0.20 | 0.40 | | | | | | 270 | 1390 |
| | 1 | 1-1/2 x 1-1/2 | 0.32 | | | | | | | 180 | 900 |
| | 1 | 3/4 x 3/4 | 0.25 | | | | | | | 220 | 1110 |
| 48 | 1-1/2* | 1-1/2 x 1-1/2 | 0.11 | 0.23 | 0.45 | | | | | 400 | 2000 |
| | 2 | 2 x 2 | 0.06 | 0.11 | 0.22 | 0.33 | | | | 520 | 2610 |
| 54 | 1-1/2* | 1-1/2 x 1-1/2 | 0.15 | 0.30 | | | | | | 350 | 1770 |
| 54 | 2 | 2 x 2 | 0.07 | 0.15 | 0.30 | 0.45 | | | | 460 | 2320 |
| 60 | 2 | 2 x 2 | 0.12 | 0.23 | 0.47 | | | | | 410 | 2090 |

NOTES:

1. All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association (ACMA).

2. Maximum Recommended Load represents a 5:1 factor of safety on Ultimate Capacity.

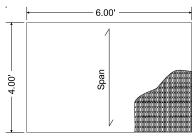
4. For covered grating use a multiplier of 0.5. This is limited to gratings of 1" - 2" depths. It is not recommended covering 3/4" or 1/2" gratings.

3. Max recommended and ultimate loads do not change as a result of adding a 1/8" deep covered plate.

High Load Capacity Grating Details

Molded High Load Capacity (HLC) grating is yet another product in the arsenal of engineered fiberglass reinforced plastic (FRP) solutions by Fibergrate. While capitalizing on most of the traditional benefits of molded grating products - high strength, corrosion resistance, fire retardancy, non conductivity and low maintenance - this specially manufactured molded FRP product has been engineered to carry forklift loads that traditional molded FRP grating products are unable to support.

With a 48% open surface area, Fibergrate molded HLC grating is available in a 6' x 4' panel with depths of 1-1/2" and 2" and is now available in Fibergrate's Vi-Corr®, Corvex®, and FGI-AM® Resin systems (see resin details for color options). Surface options include either a smooth surface or an Aluminum Oxide (A/O) grit surface. Fibergrate molded HLC grating merits an ASTM E-84 flame spread rating of 25 or less and a Class 1 Fire Rating.



6' x 4' Finished Panel Size

Note: Load carrying bars are oriented across the narrow (4') dimension of the panel. Panels furnished with closed bars all sides.

Allowable Spans for Vehicular Loads

| | | Wheel Load (lb) - 1/2 | Load Dist | tribution | Allowable Span ^{2,3} | | |
|----------|--|-----------------------|----------------------------------|--------------------------|-----------------------------------|-------------------------------|--|
| | | Axle Load +30% Impact | Parallel To Axle ¹ | Perpendicular To Axle | 1-1/2" Deep HLC Molded Grating | 2" Deep HLC Molded Grating | |
| | AASHTO Standard Truck ⁴ / 32,000 lb Axle Load Dual Wheels(*formerly AASHTO H-20) | 20,800 | 20"+4" | 8″ | 1′-2″ | 1′-5″ | |
| A | Automobile Traffic / 5,000 lb Vehicle 1,500 lb Load / 55% Drive Axle Load | 2,200 | 8"+4" | 8″ | 2' - 2″ | 2′-8″ | |
| | 5 ton Capacity Forklift / 14,400 lb Vehicle 24,400 lb Total Load / 85% Drive Axle Load | 13,480 | 11"+4" | 11″ | 1'-1″ | 1′-5″ | |
| | 3 Ton Capacity Forklift / 9,800 lb Vehicle 15,800 lb Total Load / 85% Drive Axle Load | 8,730 | 7" + 4" | 7″ | 1'-0" | 1'-4" | |
| | 1 Ton Capacity Forklift / 4,200 lb Vehicle 6,200 lb Total Load / 85% Drive Axle Load | 3,425 | 4"+4" | 4″ | 1'-7″ | 2'-1" | |

Notes:

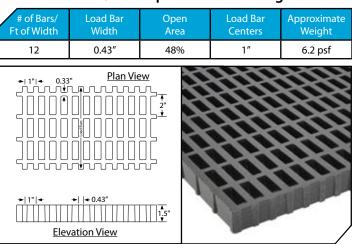
1. Load is carried by the grating load bars immediate under wheel + four additional load bars adjacent to wheel.

2. Allowable Span is based on a 0.25" maximum deflection and a Factor of Safety of 3.0. The other criteria may be required by certain construction codes. Check code requirements to determine design criteria.

3. ALLOWABLE SPAN IS STRONGLY DEPENDENT ON WHEEL WIDTH AND VEHICLE WEIGHT/LOAD CAPACITY. If your application varies from the values given on this table, contact Fibergrate Engineering for application assistance.

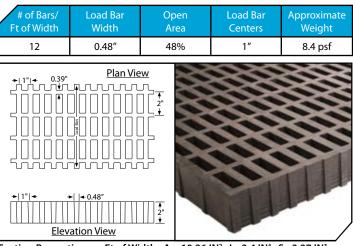
4. Load based on the AASHTO Standard Truck Load as defined in AASHTO LRFD Bridge Design Specifications, 2nd Ed. This does not imply that the allowable span meets the deflection requirements of this specification.

HLC 1-1/2" Deep x 1" x 2" Rectangular Mesh



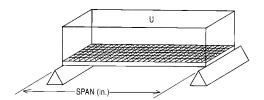
Section Properties per Ft of Width: A = 7.45 IN² I = 1.39 IN⁴ S = 1.80 IN³

HLC 2" Deep x 1" x 2" Rectangular Mesh

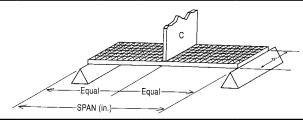


Section Properties per Ft of Width: $A = 10.26 \text{ IN}^2$ I = 3.4 IN⁴ S = 3.27 IN³

HLC Grating Load Charts



| Unifo | rm Loa | d Table | e - Def | lectior | n in Inc | hes | | | | | | | | |
|--------------|---------------|----------------|--------------|--------------|--------------|--------------|--------------|----------|----------|----------|----------|-------|------------------------------|-------------------------------|
| | Sty | rle | UNIFO | RM LOA | AD (psf) | | | | | | | | MAXIMUM | |
| Span (in) | Depth (in) | Mesh (in) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | RECOMMENDED LOAD (psf) | ULTIMATE CAPACITY (psf) |
| 12 | 1-1/2 | 1 x 2 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 28000 | 84000 |
| | 2 | 1 x 2 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 31200 | 93600 |
| 18 | 1-1/2 | 1 x 2 | <0.01 | <0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 12400 | 37300 |
| | 2 | 1 x 2 | <0.01 | <0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 14500 | 43500 |
| 24 | 1-1/2 | 1 x 2 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.09 | 0.10 | 0.11 | 6800 | 20400 |
| | 2 | 1 x 2 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 9000 | 27200 |
| 30 | 1-1/2 | 1 x 2 | 0.03 | 0.05 | 0.08 | 0.11 | 0.13 | 0.16 | 0.18 | 0.21 | 0.24 | 0.26 | 4300 | 13000 |
| | 2 | 1 x 2 | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.10 | 0.11 | 0.13 | 0.14 | 5800 | 17400 |
| 36 | 1-1/2 | 1 x 2 | 0.05 | 0.10 | 0.16 | 0.21 | 0.26 | 0.31 | 0.37 | 0.42 | 0.47 | | 3000 | 9000 |
| | 2 | 1 x 2 | 0.03 | 0.06 | 0.09 | 0.12 | 0.15 | 0.18 | 0.21 | 0.24 | 0.27 | 0.30 | 4000 | 8800 |
| 42 | 1-1/2 2 | 1 x 2 1 x 2 | 0.10 0.06 | 0.19 0.11 | 0.29 0.17 | 0.39 0.22 | 0.48 0.28 | 0.33 | 0.39 | 0.44 | 0.50 | | 2200 2900 | 6600 8800 |



| Conce | entrate | d Line | Load 1 | Table - | Deflec | tion i | n Inche | 25 | | | | | | |
|--------------|---------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------------------|---------------------------------|
| | Sty | /le | Conce | ntrated | Line LC |)AD (lb/ | ft of wi | dth) | | | | | MAXIMUM | |
| Span (in) | Depth (in) | Mesh (in) | 100 | 200 | 300 | 500 | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | RECOMMENDED LOAD (lb/ft) | ULTIMATE CAPACITY (lb/ft) |
| 12 | 1-1/2 2 | 1 x 2 1 x 2 | <0.01 <0.01 | <0.01 <0.01 | <0.01 <0.01 | <0.01 <0.01 | 0.01 0.01 | 0.03 0.02 | 0.04 0.02 | 0.06 0.03 | 0.07 0.04 | 0.08 0.05 | 14000 15600 | 42000 46800 |
| 18 | 1-1/2 2 | 1 x 2 1 x 2 | <0.01 <0.01 | <0.01 <0.01 | 0.01 0.01 | 0.02 0.01 | 0.04 0.02 | 0.07 0.04 | 0.11 0.06 | 0.15 0.08 | 0.18 0.11 | 0.22 0.13 | 9300 10800 | 28000 32600 |
| 24 | 1-1/2 2 | 1 x 2 1 x 2 | <0.01 <0.01 | 0.02 0.01 | 0.03 0.01 | 0.04 0.02 | 0.09 0.05 | 0.17 0.09 | 0.26 0.14 | 0.34 0.19 | 0.43 0.24 | 0.28 | 6800 9000 | 20400 27200 |
| 30 | 1-1/2 2 | 1 x 2 1 x 2 | 0.02 0.01 | 0.03 0.02 | 0.05 0.03 | 0.08 0.05 | 0.17 0.09 | 0.34 0.18 | 0.28 | 0.37 | 0.46 | | 5400 7200 | 16300 21700 |
| 36 | 1-1/2 2 | 1 x 2 1 x 2 | 0.03 0.02 | 0.06 0.03 | 0.08 0.05 | 0.14 0.08 | 0.28 0.16 | 0.32 | 0.48 | | | | 4500 6000 | 13600 18100 |
| 42 | 1-1/2 2 | 1 x 2 1 x 2 | 0.04 0.03 | 0.09 0.05 | 0.13 0.08 | 0.22 0.13 | 0.44 0.25 | 0.50 | | | | | 3800 5100 | 11600 15500 |

NOTES:

1. 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.

2. The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact conditions should be a maximum 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 ensure acceptable performance. For applications at elevated

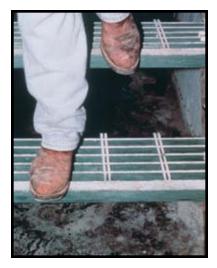
temperatures, consult factory. The designer is further referenced to ASCE Structural Plastics Design Manual.

3. Fibergrate recommends a maximum deflection of 0.25" for this product under normal loading conditions. The use of L/500 may be required by certain construction codes. Check code requirements to determine design criteria.

All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association (ACMA).

Stair Solutions

Stair Treads

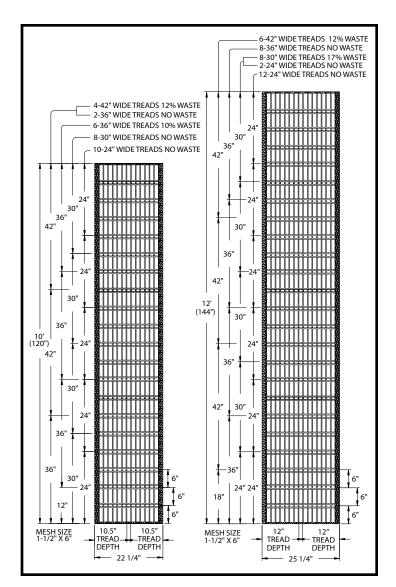


Fibergrate provides several slip and corrosion resistant products for your stairway safety needs. Our complete stair solution line includes panels in a one-piece molded configuration for new or replacement steps; covered stair treads to replace deteriorating concrete steps; or stair tread covers designed to add

slip and corrosion resistance to existing metal, concrete or wood steps. Stair treads are available in a one-piece molded configuration engineered to exceed OSHA and other model building code standards for safety, strength, durability and corrosion resistance.

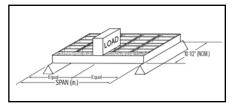
Fibertred[®] Panels

Fibertred stair treads are available in the same high performance resin formulations as Fibergrate grating. Unique cutting channels spaced at 6" intervals provide efficient utilization when custom fitting treads into stairways. These channels also ensure that all standard stair tread widths are terminated with closed ends. Up to five 24" wide stair treads can be cut from each side of a single panel. A 1-1/2" wide gritted strip is molded in on both sides of the panel for superior slip resistance.



Fibertred[®] Load Table

| Load | Span (in) | 18 | 24 | 30 | 36 | 42 | 48 |
|------|-----------|------|------|------|------|------|------|
| (lb) | Span/150 | 0.12 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 |
| 250 | | 0.03 | 0.05 | 0.09 | 0.16 | 0.25 | 0.41 |
| 500 | | 0.06 | 0.10 | 0.19 | 0.32 | 0.50 | |



NOTES:

1. It is suggested that stair tread deflections be limited to Span/150. Deflections based on this ratio are at the top of the table.

2. Deflections in the body of the table are for concentrated loads of both 250 and 500 lb A concentrated load is applied at the center line of the tread, over a width of 4" and a depth of 6", starting at the nosing edge to simulate the landing of a foot.

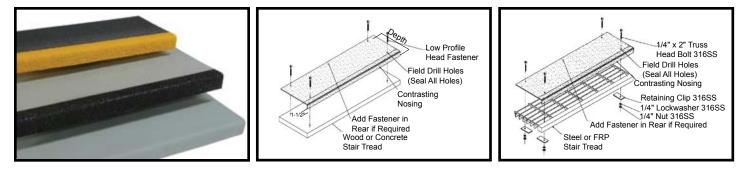
3. Stair treads with square mesh or for longer spans are available by custom order. Please contact Fibergrate for more information.

Stair Solutions

Stair Tread Covers

Fiberplate[®] stair tread covers are a convenient way to provide solid slip resistant footing for existing stairs. Stair tread covers may be installed over wood, concrete or metal steps. Standard color is dark gray with a highly visible safety yellow nosing and light gray for architectural applications.

An integral aluminum oxide grit-top surface provides secure footing for maximum safety and a highly durable tread. Reinforced with a woven glass mat for durability and impact resistance, these tread covers come in 8", 9", 10", 11" and 12" depths. The standard thickness is 1/8", with 1/4" thick covers available for heavy duty applications. Standard 12' panels are easily cut to size during installation, or are available precut to custom lengths. Also available in a phosphorescent glow in the dark coating for the nosing area.



Covered Stair Treads / Load Table

Designed as an alternative to high-maintenance concrete or slippery metal steps, covered stair treads are designed for commercial and architectural applications where aesthetics and low maintenance are important considerations. Covered stair treads are available in Corvex[®] resin and have an integral grit top which comes in two textures — coarse and fine which is suitable even for barefoot traffic. They can withstand many corrosive environments including salt, continuous moisture and constant cleaning. The tread is 80 percent lighter than that of a precast concrete step. Simple wood working tools with abrasive blades make for easy fabrication and installation.



| Tread Type | Load | Span (in) | 30 | 36 | 42 | 48 | 54 | 60 |
|------------------|------|-----------|------|------|------|------|------|------|
| (Depth x Width) | (lb) | L/D=150 | 0.2 | 0.24 | 0.28 | 0.32 | 0.36 | 0.4 |
| 1-5/8" x 10-5/8" | 250 | | 0.08 | 0.15 | 0.23 | 0.35 | | |
| | 500 | | 0.17 | 0.29 | 0.47 | | | |
| 1-5/8" x 12-1/4" | 250 | | 0.07 | 0.11 | 0.18 | 0.27 | 0.37 | |
| | 500 | | 0.13 | 0.23 | 0.36 | | | |
| 2-1/8" x 10-1/4" | 250 | | 0.04 | 0.06 | 0.09 | 0.14 | 0.20 | 0.27 |
| | 500 | | 0.07 | 0.13 | 0.19 | 0.28 | 0.39 | |
| 2-1/8" x 12-1/4" | 250 | | 0.03 | 0.05 | 0.08 | 0.12 | 0.17 | 0.23 |
| | 500 | | 0.05 | 0.10 | 0.17 | 0.24 | 0.33 | 0.46 |

Installed with standard WLP clip assembly

Optional Hidden Hold Down System

Contact your local Fibergrate sales person for more information. Visit <u>www.fibergrate.com</u> or call us at 800-527-4043.





Floor Plate



Fiberplate[®] is manufactured by building up multiple layers of fiberglass reinforcement and specially-formulated resins. The result of this process is a solid composite panel offering both bidirectional strength and corrosion resistance.

This specially designed product is nonporous, is easily cleaned by a high pressure washer and can withstand cleaning solutions. Available in all molded grating resin systems (see page 7). Standard panel sizes are 3' x 10', 4' x 8', 4' x 12' and 5' x 10'. (*Custom sizes also available.*)

Fiberplate[®] Load and Deflection Data

*Important: 1/8" Plate designed for use as covering only; not recommended for load bearing service.

| ? | | Concer | ntrated L | .oad-F | ull Pan | iel | | | Uniform Load-Full Panel | | | | | | Concentrated | | |
|------------|------|-------------------------------------|-----------|----------------------|---------|-------|------|-------------------------|-------------------------|------|-------|-------|-------|-------|--|---------|--|
| h (i | (in) | Maximum Load | | Load (lb) | | | | Maximum Load Load (psf) | | | | | | | Load Required to Produce Deflection | | |
| Depth (in) | Span | Norm ¹ Firm ² | | 100 250 500 750 1000 | | | 1000 | Norm ¹ | Firm ² | 25 | 50 | 75 | 100 | 150 | Equal to 1% of Span (lb) | | |
| | 12 | 229 | 135 | .047 | .104 | .199 | .294 | .392 | 336 | 205 | .010 | .014 | .022 | .029 | .043 | 300 lb | |
| 1/4 | 18 | 196 | 117 | .079 | .181 | .351 | | | 99 | 54 | .056 | .085 | .115 | .145 | .204 | 256 lb | |
| 1/4 | 24 | 181 | 116 | .102 | .268 | | | | 28 | 15 | .177 | .327 | .476 | | | 223 lb | |
| | 36 | 84 | 55 | .350 | | | | | | | | | | | | 103 lb | |
| | 12 | 515 | 325 | .018 | .045 | .093 | .140 | .190 | 480 | 300 | <.01 | | .016 | .020 | .030 | 667 lb | |
| 3/8 | 18 | 455 | 288 | .028 | .077 | .158 | .239 | .320 | 146 | 91 | .026 | .050 | .075 | .099 | .148 | 584 lb | |
| 3/0 | 24 | 259 | 149 | .100 | .195 | .355 | | | 64 | 40 | .075 | .150 | .225 | .300 | .449 | 308 lb | |
| | 36 | 154 | 98 | .178 | .467 | | | | 28 | 17 | .258 | | | | | 192 lb | |
| | 12 | 960 | 600 | <.01 | .025 | .048 | .075 | .100 | 654 | 410 | <.01 | | .012 | .016 | .022 | 1250 lb | |
| 1/2 | 18 | 853 | 543 | .011 | .011 | .038 | .081 | .125 | 169 | 26 | .125 | .041 | .057 | .074 | .106 | 1184 lb | |
| 1/2 | 24 | 508 | 313 | .043 | .098 | .1490 | .282 | .374 | 118 | 72 | .051 | .089 | .127 | .165 | .241 | 631 lb | |
| | 36 | 260 | 157 | .127 | .283 | | | | 49 | 30 | .153 | .297 | .441 | | | 318 lb | |
| 2/4 | 12 | 3965 | 2469 | .003 | .007 | .013 | .019 | .024 | 1944 | 1215 | .0012 | .0025 | .0037 | .0049 | .0074 | 4750 lb | |
| | 18 | 1798 | 1123 | .009 | .024 | .043 | .063 | .079 | 576 | 360 | .002 | .011 | .018 | .025 | .039 | 2140 lb | |
| 3/4 | 24 | 1412 | 882 | .019 | .042 | .075 | .106 | .133 | 243 | 152 | .031 | .054 | .075 | .093 | .131 | 1700 lb | |
| | 36 | 1108 | 693 | .027 | .066 | .129 | .188 | .243 | 85 | 53 | .078 | .134 | .187 | .231 | .321 | 1440 lb | |

Notes:

(1) Normal load is the load which will produce a L/D of 125 or .375" Maximum.

(2) Firm is the load which will produce a L/D of 200 or .25" Maximum.

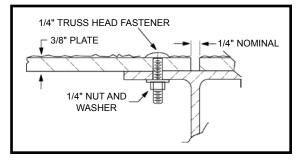
(3) Loads for Short Span Normal and Firm have been limited to allow for shearing effects.
(4) Clear Span is 2" less than width of grating.

Installation

- Install using ordinary hand tools and masonry blade
- Fastener assembly kits may be ordered directly from Fibergrate
- Space fasteners a minimum of 12"-24" apart
- On concrete, use masonry bit and concrete anchor bolts
- On steel, wood or FRP, drill and bolt with truss head assembly
- It is recommended that all cut edges and holes be sealed

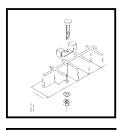


1/8"- 1.3 psf, 1/4"- 2.6 psf, 3/8"- 3.9 psf, 1/2"- 5.2 psf, 3/4"- 7.8 psf



Accessories

Clip Assemblies For Molded Products



TYPE M HOLD DOWN

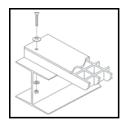
CLIPS: Secure panels to a support in the same manner as Type J Clips, but designed to use two adjacent grating bars for a more secure fit. Similar in design to metal grating saddle clips.

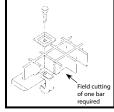
TYPE F END PANEL

CLIPS: Provide a simplified method for joining factory edges of adjacent abutting panels.



TYPE EI HOLD DOWN CLIP: Secure panels to a support.



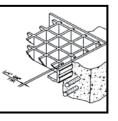


TYPE WLP

STRUCTURAL CLIPS: Secure covered grating or plate to a structure. (Also available in 304 SS)

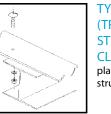
TYPE G HOLD DOWN CLIPS: Attach grating to any structural member

structural member flange, 3/4" or smaller in thickness, with no drilling required.



Service States

TYPE J HOLD DOWN CLIPS: Secure grating panels to support frames.



TYPE H (TRUSS HEAD) STRUCTURAL CLIPS: Secure plate to a structure.

EZ Angle® Embedment Angle: EZ Angle® embedment angle is precisiondesigned for solid seating of 1", 1-1/2", and 2", and 3" deep gratings. EZ Angle embedment angle is stocked in 20' lengths for immediate shipment. For animated installation instructions, visit our resource center at www.fibergrate.com.

Fibergrate[®] Pedestals



Made with the same adherence to quality as all Fibergrate products, specially designed pedestals for square mesh molded grating are manufactured to provide safe support for elevated flooring. Pedestal supported floors are versatile; they can be modified or moved from place to place as necessary and pedestals are generally much less expensive than beam support systems. Adjustable pedestals are available in heights from 3-1/4" to 72" (with additional bracing). Pedestals are available with 1-1/2" or 2" single heads or quad heads to fit Fibergrate grating.

Rubber Feet for Molded Grating



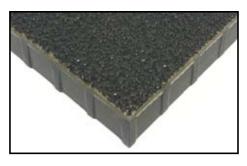
Specially designed rubber feet are an economical way to create a raised, ergonomic grating workmat for use around machines, lathes and in wet areas. With the rubber feet, facilities have a cost-effective solution to elevate grating needed for drainage or waterflow and safe, ergonomic platforms. The feet raise the grating 1/2" above the ground, and along with the open mesh, protect workers by allowing chips and fluids to fall below the standing surface eliminating slip and fall hazards.

Sealing and Bonding Kits

To maintain corrosion resistance and structural integrity, Fibergrate offers standard resin sealing in 1/2 pint and gallon kits for protecting the exposed ends of cut panels and other components. One 1/2 pint kit coats approximately 20-40 lineal feet. Sealing and bonding kits come in a natural, unpigmented color.

Other Molded Products

Covered Grating



Covered grating is often used in loading and storage areas. Other applications include food processing facilities where covered grating walkways prohibit contamination to conveyor or work surfaces below; facilities where covered grating provides a walking surface and controls subsurface odors; walkways over tank tops and vats; and solid flooring where narrow heels might present a tripping hazard with open mesh grating. Fibergrate[®] covered grating includes a fiberglass gritted plate cover secondarily affixed to a molded grating panel. Covered grating offers a strong, level surface for foot or cart traffic and provides approximately 50% higher stiffness values than that of open mesh grating. Its standard grit top cover assures secure footing.

Fibergrate covered grating consists of a 1/8" or 1/4" deep plate applied to standard Fibergrate grating depths. Fibergrate covered grating is available in Corvex[®], Vi-Corr[®], FGI-AM[®], ELS and XFR resin systems.

Notes: 1. Type WLP Hold Down Clips are recommended to secure Fibergrate covered grating panels to structural supports in order to eliminate potential damage to the covered grating. Fibergrate provides 8 WLP Hold Down clips per panel. 2. For load data see pages 9-11 and use a multiplier of 0.5. This is limited to gratings of 1" - 2" depths. It is not recommended covering 3/4" or 1/2" gratings.

Work Platform Solutions





Work station platforms from Fibergrate are available in a variety of styles, heights and sizes to provide a safe, slip resistant, corrosion resistant and ergonomic solution for your facility. From portable one-piece workstands to fixed large-scale access platforms, Fibergrate will help you find the perfect fit for your working environment.

Safe-T-Stand[®]: Safe-T-Stand platforms have a grit top which provides a safe, slip resistant surface, while their resilient design eases the strain on feet, legs and back muscles. Stands are available in 2", 4", 6", 8" and 10" heights and have skid resistant rubber feet for added safety.

The proven strength, impact resistance and overall durability of FRP construction make Safe-T-Stand platforms equally usable in any process industry or manufacturing environment. Standard Safe-T-Stand platforms are manufactured using a specially designed, USDA-approvable, food-grade resin for food and beverage processing plants. The full line of Fibergrate resin systems is available for non-food applications.

Fibergrate[®] Custom Platform Solutions: Fibergrate's turnkey approach to providing custom platform solutions include design and fabrication and installation services. From simple portable workstations to complex multifaceted platforms, the experienced personnel at Fibergrate can provide your facility with the perfect custom platform solution.

Chemical Resistance Guide

| hemical Environment | % Concentration | Temp °F | Vi-Corr∘ | Super Vi-Corr∘ | Molded Fibergrate◎ Corvex◎ | FGI-AM◎ | XFR | Pultr Safe-T VEFR | |
|--|--------------------|------------------|----------|----------------|----------------------------------|---------|--------|-------------------------|--------|
| cetic Acid | 50 | MAX | С | C | C | C C | | C | С |
| cetone Icohols | 100 | 75 120 | S C | S C | 1 | | I S | 1 | N |
| lum | ALL | MAX | С | С | ċ | ċ | С | ċ | ċ |
| luminum Chloride | ALL | MAX | С | С | ç | ç | C | ç | C |
| luminum Fluoride mmonium Hydroxide | 20 30 | 75 75 | C C | C C | N | N | N | | N |
| mmonium Salts-Neutral | ALL | 120 | С | C | C | C | S | Ċ | S |
| mmonium Salts-Aggressive | ALL | 75 | Ş | ç | l | I. | I | Т | N |
| romatic Solvents arium Salts | ALL | 75 MAX | T C | T C | N C | N C | N C | N C | N C |
| enzene | 100 | 140 | Ĩ | Š | Ĩ | ĩ | Ĭ | Ĩ | Ň |
| lack Liquor (Pulp Mill) | ALL | MAX | C | C | | | I. | | N |
| leach Liquor (Púlp Mill) alcium Hydroxide | ALL 25 | MAX MAX | C C | C C | S | S | N | S | N |
| alcium Hypochlorite | ALL | MAX | Ċ | č | Í. | Í | i | Ĭ | Ň |
| alcium Salts | ALL | MAX | С | C | ç | ç | C | C | C |
| arbon Tetrachloride hlorinated Hydrocarbons | 100 100 | 75 75 | C T | C T | Ť | Ť | S N | S T | N |
| hlorine Dioxide | SAT | 140 | Ċ | ċ | Ň | Ň | N | Ś | Ň |
| hlorine Water | SAT | 120 | C | C | l | l | I | l | N |
| hlorine, Wet hlorobenzene | SAT 100 | MAX 75 | C S | C S | N N | N N | N N | N N | N |
| hlorobenzene | ALL | Up to 100 | č | č | N | N | N | N | N |
| hloroform | 100 | 75 | Ň | Ň | N | N | N | Ň | N |
| hromic Acid itric Acid | 50 ALL | 140 MAX | S C | S C | S C | S C | N C | C | N C |
| opper Cyanide Plating | ALL | 125 | C | c | S | S | N | S | I |
| opper Salts | ALL | MAX | С | С | С | С | С | С | Ċ |
| rude Oil (Sweet or Sour) ichlorobenzene | ALL | MAX | Ç | C S | C N | C | C | C N | C |
| thers | 100 | 75 75 | T | T | N | N N | N N | N | N N |
| erric Chloride | 100 | MAX | Ċ | С | С | С | С | С | С |
| erric Salts | ALL | MAX | С | С | C | C | Ç | Ç | C |
| uoride Salts+HCI uosilicic Acid | ALL 10 | 75 75 | C C | C C | S S | S S | S | S | N |
| ormaldehyde | 37 | 150 | С | С | Ì | Î | Ĭ | S | i |
| ormic Acid | 25 | 100 | С | С | S | S | 1 | S | |
| uel (Diesel, Jet, Gasoline) Ivcerine | ALL 100 | 100 MAX | C C | C C | C C | C C | C C | C C | C C |
| reen Liquor (Pulp Mill) | ALL | MAX | č | č | Ň | Ň | Ň | Ĩ | Ň |
| ydrobromic Acid | 48 | MAX | S | S | S | S | 1 | 1 | N |
| ydrochloric Acid ydrochloric Acid | 10 30 | MAX MAX | C C | C C | S S | S S | C | S | S |
| ydrochloric Acid (concentrated) | ALL | Up to 180 | Ĭ | č | Ň | Ň | Ń | Ň | Ň |
| ydrocyanic Acid | ALL | MAX | C | C | l. | I. | I. | S | I |
| ydrofluoric Acid ydrogen Peroxide | 20 | 75 75 | S C | C C | N N | N N | N | N S | N N |
| actic Acid | 100 | MĂX | č | č | С | C | ċ | С | Ċ |
| ime Slurry | SAT | MAX | С | С | С | С | С | Č | С |
| ithium Chloride ithium Salts | SAT ALL | MAX MAX | N C | C C | N C | N C | N C | N | N |
| agnesium Salts | ALL | MAX | č | č | č | č | C | ċ | ċ |
| aleic Acid | 100 | MAX | C | С | S | S | С | S | |
| ercury Chloride ickel Salts | 100 ALL | MAX MAX | C C | C C | C C | C C | C C | C C | C C |
| itric Acid | 20 | 120 | č | č | š | s | Ĩ | Ĭ | Ĩ |
| itric Acid | 35 | 100 | Ç | C | N | N | I. | l | N |
| itric Acid itric. Hvdrofluoric | 40 20:2 | Ambient 75 | | C C | N N | N N | N N | N N | N |
| itrous Acid | 10 | 75 | ċ | | С | С | Ċ | C | С |
| zone for Sewage Treatment | | 100 | С | C C | С | С | C | С | С |
| erchloroethylene henol | 100 | 75 75 | S C | C C | N N | N N | I N | | N N |
| henol | 88 | Ambient | S | č | N | N | N | N | N |
| hosphoric Acid | 85 | MAX | S C | С | C | С | С | С | S |
| hosphoric Acid, Super otassium Hydroxide | 115 | MAX 120 | C C | C C | | | S N | S | N |
| otassium Salts | ALL | MAX | C | C | C | Ċ | C | S C | C |
| Iver Nitrate | 100 | MAX | С | С | č | C | C | С | Č |
| odium Cyanide odium Hvdroxide | ALL | 75 | С | С | | | I N | S | |
| odium Hydroxide odium Hydroxide | 50 10 | MAX MAX | C C | C C | N | N | N N | N | N N |
| odium Hypochlorite (Stable) | 10 | 100 | C | C | S C | S C | S | S C | 1 |
| odium Salts-Neutral | ALL | MAX | С | C | Ç | ç | Č | | С |
| odium Salts-Aggressive ulfur Dioxide | ALL SAT | 75 MAX | S C | C C | S | S | S | T | N S |
| ulfuric Acid | 25 | MAX | C C | С | S S | S S | S S | S S | 1 |
| Ilfuric Acid | 50 | MAX | С | С | S | S | S | S | N |
| ulfuric Acid | 75 | 100 120 | C S | C C | | | I N | | N |
| richloroethane1,1,1 | ALL | 75 | S | C | | | | | N |
| isodium Phosphate | 50 | MAX | С | С | i | i | İ | i | N |
| ater (Fresh, Salt, Moderate D.I.) | 100 | MAX | С | С | С | C | C | С | С |
| et Chlorine/Hydrochloric Acid hite Liquor (Pulp Mill) | 10-20 ALL | Up to 350 MAX | S C | C C | N | N | N | N S | N N |
| inc Chloride Plating | ALL | 75 | С | C | S C | S | S | S | N |
| | 100 | MĂX | č | č | | č | č | č | Ċ |

C - Continuous exposure of the grating to the Chemical Environment listed at the temperature listed.

S - Frequent exposure of the grating to splashes and spills from the Chemical Environment listed with that environment at the temperature listed. I - Infrequent exposure of the grating to splashes and spills from the Chemical Environment listed with that environment at the temperature listed and the spill immediately cleaned up or washed from the grating. N - Not recommended for the concentrations and temperatures listed. T - Test

Super Vi-Corr may require benzoyl peroxide-DMA cure system to increase service life.

Consult Fibergrate for corrosion recommendations at concentrations, temperatures or chemicals not listed in this guide. MAX TEMP is 400°F for Super ViCorr; 180° for ViCorr and Pultruded VEFR; 150° for Corvex, FGI-AM, XFR and Pultruded ISOFR.

The information in this Corrosive Guide is corrosive applications. Because actual use conditions differ and mixtures of corrosives will occur in service, the end user must test for use under actual conditions. Fibergrate's responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material sold by Fibergrate. Test coupons are available upon specific request.

Fibergrate Products & Services

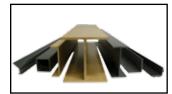


Fibergrate[®] Molded Grating

Fibergrate[®] molded gratings are designed to provide the ultimate in reliable performance, even in the most demanding conditions. Fibergrate offers the widest selection in the market with multiple resins and more than twenty grating configurations available in many panel sizes and surfaces.

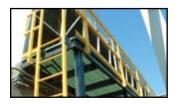
Safe-T-Span® Pultruded Industrial and Pedestrian Gratings

Combining corrosion resistance, long-life and low maintenance, Safe-T-Span[®] provides unidirectional strength for industrial and pedestrian pultruded grating applications.



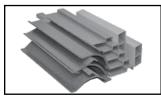
Dynaform[®] Structural Shapes

Fibergrate offers a wide range of standard Dynaform[®] pultruded structural profiles for industrial and commercial use, including I-beams, wide flange beams, round and square tubes, bars, rods, channels, leg angles and plate.



Dynarail[®] Handrail & Safety Ladder Systems

Easily assembled from durable components or engineered and prefabricated to your specifications, Dynarail® handrail and safety ladder systems meet or exceed OSHA and strict building code requirements for safety and design.



Custom Composite Solutions

Combining Fibergrate's design, manufacturing and fabrication services allows Fibergrate to offer custom composite solutions to meet our client's specific requirements. Either through unique pultruded profiles or custom open molding, Fibergrate can help bring your vision to reality.



Design & Fabrication Services

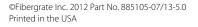
Combining engineering expertise with an understanding of fiberglass applications, Fibergrate provides turnkey design and fabrication of fiberglass structures, including platforms, catwalks, stairways, railings and equipment support structures.



Worldwide Sales & Distribution Network

Whether a customer requires a platform in a mine in South Africa to grating on an oil rig in the North Sea, or walkways in a Wisconsin cheese plant to handrails at a water treatment facility in Brazil; Fibergrate has sales and service locations throughout the world to meet the needs and exceed the expectations of any customer.

Fibergrate Composite Structures Inc. believes the information contained here to be true and accurate. Fibergrate makes no warranty, expressed or implied, based on this literature and assumes no responsibility for the consequential or incidental damages in the use of these products and systems described, including any warranty of merchantability or fitness. Information contained here can be for evaluation only. The marks and trade names appearing herein, whether registered or unregistered, are the property of Fibergrate Composite Structures Inc.







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