

# Fiberglass Structural Systems



HIGH PERFORMANCE COMPOSITE SOLUTIONS



# Fiberglass Structural Systems

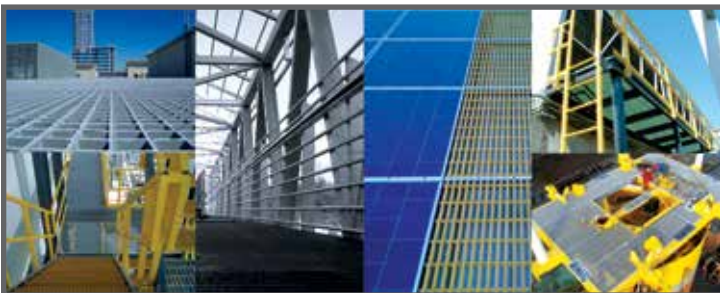
Fibergrate Composite Structures Inc. provides complete engineering, design, manufacturing, and fabrication of fiberglass structural systems. Structural fiberglass components offer the most cost effective life cycle solutions. Fiberglass structural systems provide safe, corrosion resistant, non conductive, fire retardant work areas – all at a higher strength-to-weight ratio than steel.

With 50 years of experience and over 50,000 successful structural fiberglass system installations worldwide, Fibergrate offers you the confidence that solutions to your industry-specific problems are within reach. Fibergrate's team of Registered Professional Engineers, drafters and fabricators will provide you with innovative, cost-effective, performance-proven engineered solutions that will meet your most difficult facility problems, in even the most demanding of environments.



*This all FRP (fiberglass reinforced plastic) structure was specifically designed for a General Dynamics anechoic testing chamber. FRP was required because its properties are transparent to the radio and electromagnetic waves used during aircraft testing.*

## Fibergrate Markets



- Architectural
- Bridge & Highway
- Chemical
- Commercial
- Food & Beverage
- Manufacturing
- Metals & Mining
- Microelectronics
- Oil & Gas
- Pharmaceutical
- Power
- Pulp & Paper
- Recreation
- Telecommunications
- Transportation
- Water & Wastewater



# Fiberglass Structural Systems



*This battery plating facility's demanding corrosive environment required FRP elevated walkways, fabricated from Dynaform® vinyl ester structural shapes and Vi-Corr® molded grating.*



*This fountain in Dallas required detailed fabrication of grating and structural components that could be submerged in water without corrosion or rust.*



*Fibergate structural shapes and pultruded grating were used in this mining facility for their corrosion resistance.*



*Fibergate's Micro-Mesh® molded grating, found in this public pool, required detailed fabrication due to the curves and angles of the pool's design.*



# Fiberglass Structural Systems



*This Dynarail® caged ladder provides safe access for workers at this water treatment facility.*

Since its inception in 1966, Fibergrate has continued to meet the growing worldwide demand for long-life, corrosion resistant fiberglass structural components. Fibergrate's FRP structural system components offer a superior strength-to-weight ratio compared to metals and resist the corrosive effects of harsh environments, especially those saturated with acids, caustics, and extreme humidity.

Some of these FRP structural system components, such as our Dynarail®/DynaRound® guardrail, handrail and ladders, are designed and manufactured to conform to OSHA, IBC and other building standards. Fibergrate provides modular systems for Dynarail/DynaRound products or can engineer and fabricate systems for your specific requirements.

For example, Fibergrate has engineered stairways for all types of applications from a harsh, corrosive environment at a pulp and paper plant to beach front access at Pebble Beach resort. FRP stairways provide secure, low maintenance, slip resistant access for any area.

Other components, such as our Dynaform® structural shapes combined with Fibergrate® gratings provide an excellent alternative to wood and metal materials for use on docks, marinas, and other recreational areas. In addition, these products can be used for walkways and platforms in almost any type of facility.



*A partial view of miles of railing fabricated for a wastewater treatment facility in Mexico. This project also included several crossover platforms with stairways.*



*Fibergrate® FRP products replaced rotting wood at this yacht club. The new surface is corrosion and slip resistant plus barefoot friendly.*

# Fiberglass Structural Systems



*This bridge at a waterpark was constructed using Fibergate's railings, grating, stair treads and structural shapes. In addition to being ADA compliant and slip resistant, this grit-top surface is also barefoot friendly.*



*This all FRP dock was designed for a private lake front residence in Canada and utilized barefoot friendly, ADA compliant Aqua Grate® pultruded grating and Dynaform® support beams.*



*This all FRP structural system/platform uses Fibergate® molded grating, Dynarail® railings and ladder, and Dynaform® structural components. This engineered solution provides safe walkways for accessing cooling towers.*



# Fiberglass Structural Systems

The Fibergrate design team, staffed by skilled AutoCAD® drafting technicians, application engineers and fabricators, is experienced in all phases of fiberglass solutions: design, production and application.

Using the latest design and modeling technologies, our drafting technicians can develop custom fiberglass structural systems for virtually any application.

From designing and writing product/structural specifications to structural detailing, Fibergrate engineers take complete project responsibility to ensure a system that will meet your requirements.

Let us demonstrate how our fifty years of experience, and the superior performance advantages of Fibergrate's FRP products, can create the solution to your unique problems!



*Fibergrate's grating, railings and structure create walkways for worker access to multiple tanks.*



*This all FRP truss walkway was designed and engineered to replace an existing rusted steel structure.*



*FRP products were chosen to upgrade these computer mainframe packaging platforms from wood.*

# Fiberglass Structural Systems



Attention to detail and pride in a job well done have made Fibergrate's fabrication department prominent in the FRP industry.

## Industries that Typically Specify Fibergrate FRP Components and Systems Include:

- Chemical Manufacturers and Processors
- Oil and Gas Processors, Refineries, and Offshore Platforms
- Pulp and Paper Plants
- Mining and Plating Operations
- Water and Theme Parks
- Microelectronics and Telecommunications
- Zoos and Aquariums
- Food and Beverage Manufacturing Plants
- Water and Wastewater Facilities
- Marinas and Docks
- MRI Diagnostic Centers



**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.



**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 guardrail, handrail and ladder systems, and Safe-T-Span® pultruded gratings assembled from NSF Standard 61-Certified components.



# 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 & Pedestrian Gratings

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



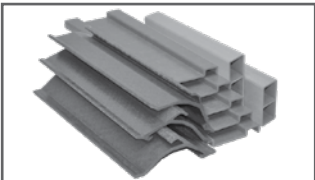
## Dynaform® Structural Shapes

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® & DynaRound® Guardrail, Handrail & Ladder

Easily assembled from durable components or engineered and prefabricated to your specifications, Dynarail square tube and DynaRound round tube railing systems and Dynarail 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 railings 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.

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