

Infrastructure & Transportation

Market Solutions



Building the World to Last[®]

HIGH PERFORMANCE COMPOSITE SOLUTIONS



Together, we will make your vision a reality.

Fibergrate in the Transportation Market

Introduction

Fibergrate Composite Structures, Inc. stands as a worldwide producer of fiberglass reinforced plastic (FRP) engineered solutions. Renowned for its exceptional quality, Fibergrate sets the benchmark for top-tier composite products, featuring well-established brands including Fibergrate® molded gratings, Safe-T-Span® pultruded gratings, and Dynaform® structural shapes.



Fibergrate has spearheaded a transformation in structural products, steering away from labor-intensive metals and hefty reinforced concrete towards the adoption of cutting-edge composites. As pioneers in FRP components, Fibergrate's structural materials overcome various constraints presented by metal and concrete. These solutions encompass impressive strength-to-weight ratios, easy installation, notable safety, and extended, low-maintenance life cycles.

Fibergrate's FRP products resolve challenges in the transportation industry by offering lightweight, durability, and corrosion resistant solutions, addressing issues faced by traditional construction materials in transportation infrastructure.

Applications

- Bridge Walkways
- Pedestrian Access Ways
- Fall Prevention Railings & Covers
- Stair Solution
- Anti-Slip Walkways and Ramps
- Trench Covers
- Highway Noise Barriers
- Fencing
- Utility Enclosures

Product Solutions



Soundscape® Sound Wall

Fibergrate's FRP sound barrier walls offer an innovative solution to mitigate noise pollution in the transportation industry. These sound-absorbing barriers effectively reduce sound reverberation, enhancing acoustic comfort in high-traffic areas such as highways, railways, and airports. Lightweight and durable, they are easy to install and maintain.

The FRP material is graffiti, moisture, and freeze-thaw resistant and will not corrode, rust, or rot meaning that once it is installed, the Soundscape® noise control barrier wall maintains its aesthetically pleasing design for 50-plus years of service life.

The customizable design allows for tailored solutions to meet specific project requirements. Fibergrate's FRP sound barrier walls promote a safer and more enjoyable experience for travelers and residents alike in urban and transit environments.



Railing and Ladders

Fibergrate's FRP handrails, guardrails, and ladders serve as essential safety components in transportation settings. Lightweight yet robust, these products provide reliable fall protection and guide pedestrian movement in various infrastructures such as airports, train stations, and bus terminals. Resistant to corrosion, FRP ensures a long service life, contributing to the overall safety and durability of transportation facilities. The customizable design options further adapt to specific project requirements, ensuring a secure and aesthetically pleasing solution for pedestrian safety in transit environments.



Product Solutions

FRP Grating and Panels

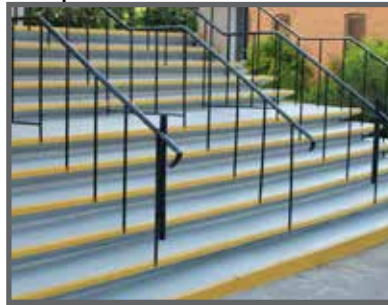
FRP Panels are used in the construction of walkways, platforms, and flooring for transportation infrastructure such as bridges, platforms, and pedestrian walkways, providing durable and non-slip surfaces for pedestrian access. These lightweight yet robust materials ensure safety on road and bridge structures, offering reliable barriers to enhance overall safety.

In railway applications, FRP grating effectively fills gaps between the tracks and the platforms, contributing to secure railway infrastructure. Specially formulated resins help Fibergrate FRP products withstand corrosive elements, even in areas where corrosive salts and shovels are used to clear snow. The low maintenance requirements and versatility make FRP grating and panels an ideal choice for diverse transportation projects - ensuring longevity and safety across bridge walkways, pedestrian access ways, road safety barriers, and railway applications.



Stair Solutions

Fibergrate's FRP stair treads, stair tread covers, and stairways play a crucial role in enhancing safety and durability in the transportation industry. Designed to exceed OSHA standards, these corrosion-resistant and slip-resistant products provide safety to the pedestrians in various transportation settings. The lightweight nature of FRP simplifies installation, reducing labor costs, while its resistance to corrosion ensures a long service life even in high-traffic areas. Fibergrate's FRP stair solutions offer a reliable and cost-effective means to improve pedestrian safety and access in transportation facilities.



FRP Structural Shapes

With exceptional strength-to-weight ratios, FRP structural components are ideal for constructing server enclosures, equipment racks, cable trays, and various support structures. Their non-conductive nature enhances electrical safety, crucial in transportation settings. Resistant to corrosion, FRP structural shapes withstand moisture and humidity, ensuring longevity in diverse weather conditions. Their lightweight properties simplify installation and reduce overall structural load, contributing to energy efficiency as well!



Product Solutions

Mechanical Support

Historically, cable trench covers have been created from heavy, reinforced concrete or metal grating. Both of these materials have significant drawbacks in appearance, safety, and weight. Now, FRP is the best choice for trench and access ducting covers. These lightweight covers ensure secure concealment of utility channels in high-traffic areas and provide a pedestrian walking surface. Fibergrate's FRP covered gratings have a high strength-to-weight ratio and resist impact.

Fibergrate trench covers can be paired with electrically non-conductivity cable trays for cable management. Fibergrate's FRP trench covers and cable trays are easy to handle, durable, and resistant to corrosive elements making them an ideal choice for enhancing safety and longevity in transportation infrastructure projects.



Electrical Screening

Fibergrate grating and structural shapes can provide a low maintenance, electrically transparent solution to protect people from voltage areas, moving machinery, or restricted areas. Open mesh grating allows for air circulation and visibility, or covered grating can be used for areas that require no visibility of electrical equipment.



Product Solutions



Animal Deterrent Barriers

FRP screening also acts as a protective shield under bridges, preventing animals and other pests from creating habitats. Its durable and corrosion-resistant properties ensure long-term efficacy, offering a sustainable solution for maintaining the integrity of bridge structures while safeguarding against unwanted inhabitants.



Transit Station Solutions

Fiberglass is used for constructing durable and weather-resistant bus shelters and transit station components. Its durability, coupled with weather resistance, ensures long-lasting and reliable infrastructure, providing commuters with shelter and comfort in various environmental conditions.



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.



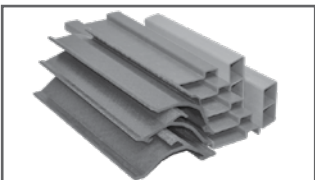
Dynaform® Structural Shapes

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® Guardrail, Handrail & Safety Ladder Systems

Easily assembled from durable components or engineered and prefabricated to your specifications, Dynarail® guardrail, 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 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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