

Building the World to Last[®]

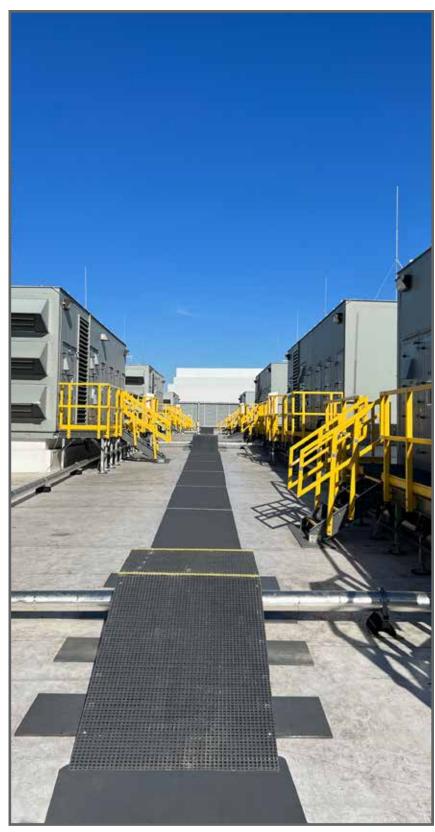
HIGH PERFORMANCE COMPOSITE SOLUTIONS



Together, we will make your vision a reality.

Solutions for Data Centres

Introduction



Fibergrate Composite Structures Inc. is a global manufacturer of Glass Reinforced Plastic (GRP) products. Fibergrate sets the standard for high performance composite products such as moulded gratings, pultruded gratings and access solutions

Fibergrate has led the revolution in structural products, away from maintenance intensive metals and heavy reinforced concrete products, towards the use of advanced composites. The pioneer in GRP components, Fibergrate structural materials provide solutions to many of the limitations of metal and concrete. These solutions include high strength-to-weight ratios, easy installation, significant safety and ergonomic characteristics, and long, low maintenance life cycles.

Data Centres need continues to grow as the use of cloud-based technologies, a changing work landscape, and the need for data storage continues to expand. Data Centres require unique materials to not only create a strong structure and safe access but to also allow air flow and provide electrically non-conductive surfaces Fibergrate's GRP product attributes meet the needs of the design and engineering requirements for Data Centre construction.

Applications

- Non-Conductive Access Platforms & Stairs
- Non-Penetrating Rooftop Walkways, Accessways
- Substation Oil Containment Gratings
- Sound-Absorbing Wall Planks
- Traffic Rated Utility Trench Covers
- Electrically Non-Conductive (ENC) Fencing, Screening and Barriers

Fibergrate Benefits



Electrically & Thermally Non-Conductive: GRP is electrically non-conductive for safety and has low thermal conductivity which results in a more

comfortable product when physical contact occurs.



Corrosion-Resistant: Will not rust or corrode due to weather or harsh chemicals.



Slip-Resistant: Slip resistance properties far exceed those of concrete and metal, especially in wet or oily conditions.



Low Maintenance: The corrosion-resistant properties of Fibergrate products reduce or eliminate the need for sandblasting, scraping and painting.



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.



Impact-Resistant: GRP can withstand major impacts with negligible damage. Gratings are available to satisfy even the most stringent impact requirements.



Fire-Retardant: Most Fibergrate products meets and follows UK Class 1 and Class 2 Fire ratings..

Easily Fabricated: Can be fabricated with simple carpentry tools and require no welding. The lightweight makes it unnecessary for lifting equipment since the grating can be easily handled by two workers.

Allows Drainage: Open mesh grating removes standing water from walkways and access areas, or solid surface products can be used where needed.

Engineering and Drafting: Utilizing Fibergrate's 50 years of experience combined with engineering, directed by a Professional Engineer, can save time and money from concept to completion.



NSF[®] Standard 61-Certified GRP Products:

Fibergrate offers a line of pultruded and moulded products that have been certified to NSF Standard 61 for potable

water contact. These include Dynaform® structural shapes, Dynarail® ladder and railing systems, as well as specially formulated moulded grating. This moulded grating uses an isophthalic and vinyl ester resin formulation and is the only moulded grating available with NSF Standard 61 certification.



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.

GRP vs. Steel: When comparing the price of Fibergrate Glass Reinforced Plastic (GRP) to metallics, consider: <u>Value = Price / Service Life</u>

Cost Factor	Traditional Metallic Materials	The Fibergrate [®] Advantage
Safety Cost	Slips and falls are the second leading cause of industrial accidents and one of the leading causes of death. Each lost work day can lead to a significant cost.	Fibergrate's slip-resistant surface dramatically reduces accidental slips making it the most cost-effective solution for minimizing worker accidents and lost workdays.
Initial Installation Cost	Up front, metallic components appear to be the most economical, based on material cost alone. However, metallic materials require heavy lifting equipment, added labour for cutting, welding and painting and grating must be "edge-banded".	Although initial material investment may appear higher, don't be fooled! GRP products require no heavy lifting equipment, minimal labour, are easily fabricated with hand tools, do not need painting, and grating requires no edge-banding.
Maintenance & Replacement Cost	In highly corrosive installations, metallic products often require intensive maintenance and can deteriorate in a few years or less, requiring numerous replacements within the facility life.	Fibergrate GRP products will last much longer and require little maintenance. Fibergrate systems pay for themselves after one maintenance cycle. Many Fibergrate installations have been in service for 50+ years.



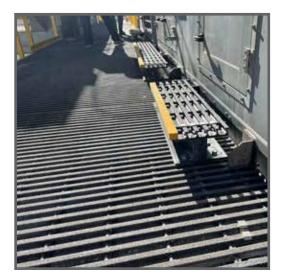


Transformer Bund Grating

Using Fibergrate GRP grating for transformer bund covers is becoming more popular for its convenience. The grating can be mounted on pedestals and can be adjusted to the proper heights. Using Fibergrate's grating pedestals requires no additional trench lip or structural supports, and can be used when bund floors are not equal heights throughout. GRP grating and pedestals are convenient, economical and versatile for any transformer bund.

Stair Treads and Stairways

An entire stairway can be created from GRP materials including treads, stringers, railing and grating. Fibergrate provides several slip and corrosion-resistant products for your stairway safety needs. Our complete stair solution line includes products for new or replacement steps or covers designed to add slip resistance to existing problematic steps. Stair treads and stairways are designed to meet OSHA regulations for safety, strength, durability and corrosion resistance.



GRP 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.

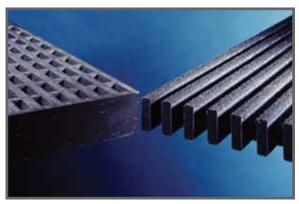




GRP Structural Shapes

A full line of GRP structural shapes are available; including angles, channels, I-beams, wide flange beams, round tube, square tube, round rod, square bar, flat sheets and concrete embedment angles. These shapes have the same features and benefits as other Fibergrate GRP products which ensure a long, low maintenance life for projects even in harsh environments. Fibergrate is the world's foremost custom manufacturer and fabricator of highly complex and unique projects. Call today regarding a specialized solution for your project!





High Load Capacity (HLC/HI) Grating

High Load Capacity (HLC/HI) Gratings are yet another product category in the arsenal of engineered solutions by Fibergrate. This specially manufactured product has been engineered to carry the forklift loads that traditional moulded and pultruded GRP grating products are unable to support while capitalizing on some of the traditional features of GRP such as high strength, corrosion resistance, fire retardancy, non-conductivity, and low maintenance.

These high load gratings can be supplemented with standard moulded or pultruded grating to create a trench system that will support the needs of any facility. High load gratings have at least a 48% open area for drainage and can be supplied with a solid top when needed. Fibergrate is the only manufacturer of an HLC moulded grating product durable enough for vehicular turning traffic.



Grating Pedestals

Grating Pedestals are specially designed for square mesh moulded grating and provide safe support for elevated flooring. Pedestals are ideal for grating support in trenches, transformer bund areas and where walkways are often reconfigured. Pedestals provide more flexibility in designing raised flooring applications as economically as possible.

Adjustable pedestals are available in heights from 82mm to 1829mm (with additional bracing). The ease of adjustability of the pedestals will save installation time on sloped floors or trenches. Single heads can be adjusted from atop the grating, dramatically decreasing time spent during the levelling process.







Trench Covers

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, GRP is the best choice for trench and access ducting covers.

Concrete covers are heavy and unmanageable for workers, leading to more personal injuries on the job. These difficulties and the safety hazard posed by unsafe, cracked covers can prove a high liability for trench owners. Concrete is unable to withstand impacts and will crack and crumble. However, Fibergrate's GRP grating and plate has a high strength to weight ratio and is resists impacts

Metal covers and grating are also cumbersome and eventually rust and corrode, making them very unsightly and unsafe. In addition, metal trench covers are targets for theft because of their scrap value. The resulting, uncovered trenches become a very dangerous situation.

Why not provide an aesthetically pleasing Fibergrate GRP cover that will continue to provide durability and safety for years to come?









Fibergrate Products & Services

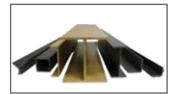


Fibergrate[®] Moulded Grating

Fibergrate® moulded 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.



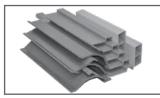
Dynaform[®] Structural Shapes

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 moulding, Fibergrate can help bring your vision to reality.



Design & Fabrication Services

Combining engineering expertise with an understanding of GRP applications, Fibergrate provides turnkey design and fabrication of GRP 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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