


# Composite Fencing Solutions



Fibergrate Composite Structures Inc. manufactures fiberglass reinforced plastic (FRP) products that combine corrosion resistance, strength, durability, safety, and low maintenance to provide a longer lasting solution for industrial and commercial applications. Fibergrate's variety of products lines are often used in conjunction with one another to create a complete FRP solution that will meet customer and industry requirements. Fibergrate® molded grating and Dynaform® structural shapes are used to construct screening and non conductive security fencing systems. These systems are designed to provide protection and security around electrical equipment, machinery, and other areas that require a non-magnetic, thermally and electrically non conductive system.



## Applications



- Electrical Equipment Fencing
- Substation Enclosures
- Air Duct & Wall Fan Screens
- Protective Barriers
- Transformer Cages
- Machinery & Equipment Guards

## Product Details & Benefits

Product*	Depth	Mesh	Panel Sizes	Color	Resin
Fibergrate® Molded Grating	1"	1-1/2" x 1-1/2"	3' x 10', 4' x 8', 4' x 12'	Dark Gray	Corvex®
	1"	2" x 2"	4' x 12'	Dark Gray	Corvex®
Covered Molded Grating	1-5/8"	1-1/2" x 1-1/2"	3' x 10', 4' x 8', 4' x 12'	Dark Gray	Corvex®
Micro-Mesh® Molded Grating	1"	3/4" x 3/4"	4' x 12'	Dark Gray	Corvex®
Product	Available Shapes*			Color	Resin
Dynaform® Structural Shapes	I-beams, wide flange beams, channel bars, and angle			Dark Gray	ISOFR

**NEW! Micro-Mesh® Molded Grating** is now available for ENC Fencing - providing an anti-climb option.

**ISOFR:** Isophthalic polyester resin formulation that offers resistance to a wide range of corrosive conditions and also provides a low flame-spread rating of 25 or less (when tested according to ASTM E-84).

**Corvex®:** Isophthalic polyester resin system that outperforms a number of competitive fiberglass and metal products. Corvex meets the requirements for corrosion resistance found in industrial and chemical applications and has a flame spread ASTM E84 rating of 25 or less.

\* Additional products or resins are available depending on customer requirements



### 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.



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



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



### PLUS:

- Non- Magnetic
- Invisible to RF & Microwave Transmissions
- Low Install Cost
- Long Service Life
- Low Maintenance
- High Strength:Weight
- Fire Retardant
- Anti-Climb (Micro-Mesh)





## Applications

### Electrical Equipment Protection

Fibergrate's Corvex molded grating and Dynaform structural shapes were used throughout this aluminum manufacturing facility to create non conductive security fencing and screening for electrical equipment protection. The result would increase safety for workers by protecting them from the risk of electrical shock. The design and engineering services offered by Fibergrate allowed for a custom solution to fit perfectly in these areas.



### Transformer Cages

Fibergrate square mesh molded grating and Dynaform structural beams and angle were used to build transformer cages around electrical equipment. The open mesh grating provides security around the transformers, while also allowing for unrestricted airflow. Additionally, the non conductive and fire retardant features of fiberglass reinforced plastic (FRP) products provide safety for workers.



### Equipment and Conveyor Protection

Xstrata is one of the world's largest producers of zinc concentrates and refined zinc. In order to re-open one of their mineral treatment plants, numerous safety issues needed to be addressed and safety upgrades made. Traditionally installed stainless steel materials became too costly to maintain and posed a safety hazard due to its corrosive nature, among other things. Fibergrate was able to provide a cost-effective, long term solution by supplying easy-to-install protections that adhered to the necessary safety codes. The yellow coloring of Fibergrate molded grating also provided the added benefit of high visibility throughout the facility. This was the first time a Xstrata plant used conveyor protections made out of FRP and it proved successful. The customer very satisfied with the final result.



## Why Choose Fibergrate?

- More than 50 years of experience manufacturing high performance composites
- In-house engineering, design, and fabrication services
- Custom product capabilities
- ISO 9001:2008 certified manufacturing facilities
- Superior features and benefits when compared to traditional building materials such as steel, wood, and aluminum



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