REPLACING CONVENTIONAL BUILDING MATERIALS

LIGHT WEIGHT INNOVATIVE SOLUTIONS

GLASS FIBRE COMPOSITE MATERIALS





THE DIRECT SOURCE OF
TRUE GLASS FIBRE QUALITY COMPOSITES



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GLASS FIBRE COMPOSITES

Glass fiber reinforced grating is an integral construction of one-piece fiberglass roving, reinforced with unsaturated polyester resin.

It is composed out of ~65 % weight resin and an immensely strong continuous glass fiber which is winded in alternating layers in 2 directions, hence, resulting in a **very high strength** of the grating in both directions.

The continuous glass fiber itself is manufactured by a special designed process that guarantees you a **high corrosion resistance**. The polyester resin mix offers **non-corrosive**, **maintenance free** properties.



Corrosion no longer occurs when using glass fibre reinforced gratings

Fibreglass fabrications such as stairways, access platforms, walkways and step-over platforms can be fitted with various fibreglass floor grating mesh and surfaces which offers maximum anti slip properties.



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Stronger than steel and are easier to transport and install due to the relatively low weight factor, it is an alternative construction material to steel and timber and has excellent thermal and non-conductive properties. Glass fibre gratings provide minimal maintenance as painting is not necessary.

Glass fibre structures can be fabricated from lightweight profiles using I-beam, channel, box, tube and gratings to produce corrosion and fire resistant structures.



CORROSION RESISTANCE

Different types of resins have different anti-corrosion properties. Depending on the corrosion circumstance like the use of acid, alkali, salt, organic solvent (gas or liquid), or just water, you can choose your best resin type.

	Corrosion	Fire	Flame spread	
Resin base	resistance	retardant	ASTM E84	Description
Phenolic resin	+++	++++	Class 1: 5 or less	Low smoke and superior fire resistance Used in confined spaces, subway, offshore, where fire resistance, low smoke and fumes are most critical.
Vinylester	++++	+++	Class 1: 25 or less	Superior corrosion resistance and high fire resistance. Used in most harsh chemical applications.
Vinylester FR	++++	++++	Class 1: 10 or less	Premium resistance against fire, used in chemical environment with high demand for flame resistance.
Isophaltic	+++	+++	Class 1: 25 or less	Resin base for moderate chemical environment, subject to splash and occasional spill contact with harsh chemicals. Excellent ratio of chemical resistance and cost.
Isophaltic FR	+++	++++	Class 1: 10 or less	Based on the same high quality Isophaltic but with an improved flame spread rate.
Ortho	++	++	Class 1: 25 or less	Economic resin base, ideal for water applications and wave platforms. Compared to the other resins, it has lower chemical resistance, however, it still outperforms traditional steel or alu floorings as to withstand chemicals.
Ortho FR	+++	+++		Extra fire resistance added.



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FIRE RESISTANCE

Our qualified matrix resins, as well as the use of fire-retardants, provide

you a grating with excellent a fire resistant performance. Hence, it is widely used on platforms, chemical infrastructures, waste water treatment installations, ...



LIGHT IN WEIGHT, HIGH IN STRENGTH



The perfect combination of the continuous E-fiberglass strand and resin provides our grating the lightness on the one hand and the high strength on the other hand. Its specific gravity is only ¼ of that of steel!

Its rigidity is up to and even exceeds that of steel. Many types of gratings meet various load design requirements and ensure at the same time a perfect design.

LONG LIFETIME

Our choice for high-grade resin and antiageing inhibitor provides the grating an excellent ageing resistant performance. The unique design makes the grating cleaning friendly and guarantees you its brightness and strength over a long time.

No corrosion, no rotting, no painting, all reducing the total cost of your infrastructure.





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SAFE & ANTI-SLIP

The high modulus of elasticity in combination with various types of surfaces, provide you a great anti-slip performance. You have different covers possible, suitable for different working places:

Concave, grit, smooth, with grit, with cover, with cover and grit.



EASY INSTALLATION & PROCESSING

Thanks to its low weight, installation goes fast and easy.

Cutting with a circular knife can be done on site to make final adjustments when required.

Without risk of corrosion afterwards because of the material.

Also, the material is coloured in the mass, resulting in consistent color, even after processing the material.





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FUNCTIONAL OR ARCHITECTURAL



