



Benefits of using

GRP Grating

NON-SLIP

Our integral grit top surface provides outstanding anti-slip protection for personnel - in wet and oily environments. The grit is embedded in the top surface of each panel prior to curing. This combination of integral construction, plus depth of the embedded grit, creates a long-lasting maximum anti-slip top surface.

CORROSION RESISTANCE

The ability of our grating to guard against deterioration from industrial chemicals and environmental factors makes it a logical and cost effective alternative to carbon steel, aluminium, wood or other conventional materials. Whether the grating is exposed to continuous submersion, splash, spills, fumes or gases, you can be assured that fibreglass grating will outperform other mediums. A comprehensive chemical resistance guide is available.

FIRE RESISTANCE

Our grating is available in various resin systems, two of which meet the Class 1 flame spread rating of 25 or less, in accordance with ASTM E-84 Tunnel Test Method. If a flame spread of 10 or less is required, a custom phenolic resin system can be supplied.

NON-MAGNETIC

The non-magnetic properties allow the grating to be used in sensitive installations where the inherent magnetic properties of metallic grating would prove unsuitable.

IMPACT RESISTANCE

The impact resistance of our grating allows repeated deflection without permanent deformation. A certain amount of deflection can occur with loading. However, once the load is removed, the grating will return to its original shape, unlike metallic grating, which will remain deformed and require costly repairs or replacement. Loading/deflection tables are available on request.

NON-SPARKING

The non sparking qualities of our grating systems are ideally suited for those installations where hydrogen or other combustible gases may be found and which may explode or cause a fire from sparks produced from accidental dropping of tools onto the grating.



MAINTENANCE FREE

The use of our grating virtually eliminates maintenance costs since painting is not required, and UV inhibitors protect against degradation from the sun.

LIGHTWEIGHT

Fibreglass Grating weighs about one-quarter as much as steel grating. Two men can easily handle full panels, without the need for hoists, pulleys or dollies. If the Fibreglass Grating needs to be moved for cleaning, maintenance or utility access, there is less chance of back injuries. The lightweight design of the grating reduces installation and fabrication costs, weighing only 12 kilos per sq mtr for 25mm and 18 kilos per sq mtr for 38mm.

RAISED FLOORS

Many plant operations have a need for slightly elevated floor grating. Fixed or adjustable pedestals can be used for applications up to a height of 600mm. Plastic insert mouldings, which raise the Dura Tread grating panels 7mm off the floor, are ideal for allowing liquid drainage below the grating.

STANDARD BEARING SURFACES

On most installations, a minimum of 38mm bearing support should be provided under the edges of our grating panels.

DESIGN

The design procedures associated with our grating are entirely different from those associated with other materials. The prime consideration in designing with our grating is allowable 'deflection' as opposed to ultimate 'loading' used with steel and aluminium. The reason for this is the inherent elasticity of reinforced plastic, permitting far greater deflection than steel, without the danger of structural failure. Load and deflection tables are available.

COST SAVINGS

In a review of costs, our grating showed significant savings over the use of stainless steel, and when consideration is given to 'life cycle costs', combining anti-slip benefits, the saving over the use of metal alternatives is quite considerable.

NON-CONDUCTIVE

The non-conductive properties make our grating ideally suited for work platforms and flooring situated in electrically hazardous locations.

LOW INSTALLATION COSTS

Our grating weighs considerably less than conventional metal gratings, and is easier and less expensive to transport, install and remove. Only simple hand tools are required for installation and removal, eliminating the need for costly equipment and labour costs associated with heavy lifting, cutting and welding.

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SUPERIOR STRENGTH

The high glass-to-resin ratio of our grating provides superior strength and load-bearing characteristics. With structural integrity protected by its unique corrosion resistance capabilities, our grating is proven to last longer than traditional materials.

MECHANICAL STRENGTH

Breaking strength under a lateral force is exceptional. The unidirectional continuous fibreglass reinforcement offers numerous advantages, including rigidity, shock-resistance and no permanent deformation after overloading. These factors provide excellent mechanical strength and a generous factor of safety. Our grating is designed for maximum safety in intensive industrial use.

CONDUCTIVE GRATING

Our grating can be supplied with a specially formulated carbon, black surface, which will eliminate hazardous static electricity when properly grounded. This anti-static property is most advantageous in high-tech electronic industries where sophisticated equipment may be damaged due to static electricity. It also provides a safe environment in combustible areas by not allowing static sparks. It can be used in railway fuel stations, circuit board manufacture, oil refineries, underground mining operations, ammunition factories etc. The surface electric resistance of Conductive Grating is 1×10^5 ohm to 5×10^5 ohm.

HIGH PERFORMANCE

Composite structural materials have demonstrated a proven ability to withstand the harsh side effects of corrosive conditions better than galvanized steel. For many years, composites have been reliably used in traditionally corrosive industries such as chemical processing, plating and marine construction. While the cost of material is an important criteria in the design of a project, it does not reflect the total cost of the project. Beyond material purchase price, the engineer also should consider the related costs of installation, maintenance over time and replacement of debilitated materials.