مصنع جودوين قطر للانابيب

GOODWIN QATAR PIPES FACTORY



GRP Gratings

Glass Reinforced Plastic Molded Gratings

WRAS APPROVED MATERIAL

Exova ASTM E84 CLASS 1 FIRE RETARDANCE

qatar 2022

INTERNATIONAL ACCREDITATION FORUM ISO 9001:2015

ISOQAR REGISTERED UKAS MANAGEMENT SYSTEMS 0026

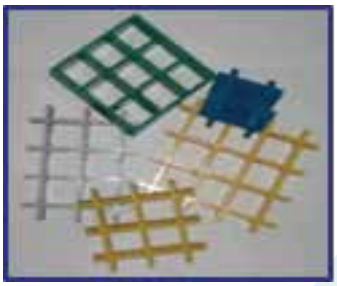
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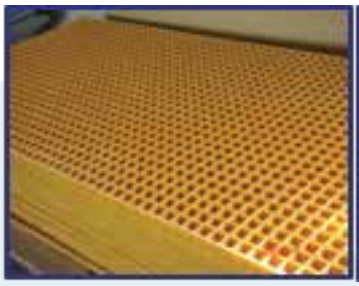
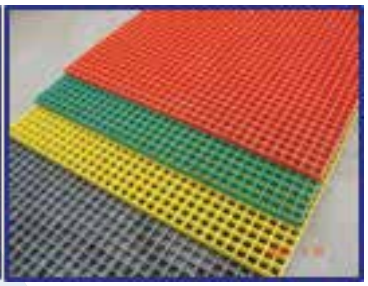
DESCRIPTION

GOODWIN QATAR WLL was established in 2007. Since then we have developed our businesses to cater to new markets and products. Thus our core business has now moved into the GRP / FRP / SMC / RTM Composites sectors.

Standard GOODWIN structural molded gratings profile shapes include equal angle, flat bars and cross sections etc. These structural shapes are used in a wide range of applications, offering a unique combination of chemical resistance, size stability, high strength, and thermal, electric non-conductivity. Isophthalic resin & Vinyl ester resin are available in Standard GOODWIN molded gratings as per different environments.

Fiber reinforcement in roving or chopped standard mat / roving forms are drawn through a resin bath to coat each fiber with a specially formulated resin mixture. The coated fiber are then drawn through a heated die. Cure of thermosetting resin is initiated by heat in the die and catalyst in the resin mix. The rate of reaction controlled by heating and cooling zones in the die.
The resulting high strength profile is cut to length, ready to use as it leaves the moldings machine.



FEATURES & ADVANTAGE

Toxic corrosion resistance ■ Impervious to bacteriological growth ■ Light weight ■ For use in all climates and exposure to sunlight ■ High strength to-weight ratio ■ Nonconductive ■ Nonmagnetic
Long life ■ Thermally inert ■ Easy installation ■ Low maintenance ■ Pleasing appearance
Fire retardant ■ Slip resistance ■ Impact resistant ■ Anti-fire ■ Anti-corrosion and anti-aging
Anti-slippery • Light but high load strength ■ Long service life & maintenance free ■ Easy installation and rich colors various sizes and colors available.

APPLICABLE INDUSTRY

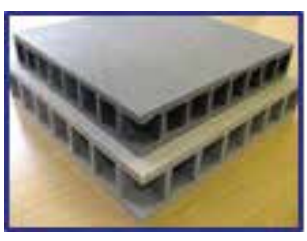
General industry ■ Transportation ■ Marine ■ Offshore ■ Waste water ■ Wet wells ■ Pulp & Paper plants
Mining & processing ■ Tanks & tank farms ■ Plating operations ■ Chemical plants ■ Petrochemical plants
Metallurgic ■ Electric power plants ■ Water-supply plants ■ Drainage ■ Municipal construction & environment
Civilian construction industries ■ Large capacity vessel ■ Ventilation valve industries ■ Chemical plant & metal finishing ■ Construction engineering ■ Traffic & transportation ■ Petrochemical engineering ■ Ocean survey
Water engineering • Food & beverage plants
Textile printing & dyeing Electronic industry

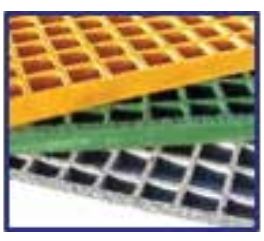
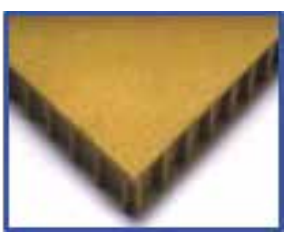
PROPERTIES & STRUCTURAL SHAPES

Lightweight – low density - 20% of steel, 70% of aluminum
High strength - stronger than structural steel
Superior dimensional stability - wide temperature range uses and thermal expansion values better than 50% of mild steel, 35% of stainless steel and 25% of aluminum
Electrical insulation - better design advantages through excellent dielectric properties
Thermal insulation - high strength and insulating values
Corrosion resistance - harsh elements and environments
Electromagnetic transparency - greater frequency freedom of movement for radio waves and microwaves ■ Consistent cross section ■ Inherent color ■ Part consolidation
Ease of fabrication & installation

FUNCTIONS

Anti-slip floor ■ Stair tread ■ Foot bridge ■ Operation platform ■ Trench cover ■ Security & safety fence
Handrail ■ Off-shore oil rig ■ Shipyard ■ Shipping deck ■ Ceiling ■ Ramp ladder ■ Scaffold ■ Railway ■ Decorative grid ■ Man-made fountain pool grid



HIGH STRENGTH TO WEIGHT RATIO

The use of high strength E-glass roving reinforcement, molded to form a square mesh gratings panel, produces a strong flooring system suitable for safe pedestrian traffic on a wide range of spans.

ADVANTAGES

Molded grating provides an efficient and cost effective solution for all flooring, walkways and decking areas requiring long-term performance in very aggressive and corrosive environments. Constructed from glass reinforced thermoset resins, our molded grating is an excellent choice to replace conventional steel and aluminum flooring systems in such aggressive environments.

CHEMICAL & CORROSION RESISTANCE

Composites molded fiberglass grating is manufactured using high strength fiberglass roving mat and a range of premium grade thermosetting resins. A high resin content of nominally 65%-70% provides durability and maintenance free performance in corrosive environments.

SOLID SURFACE GRATINGS

Our Composites molded grating is available with an integral cover bonded to the top surface and finished with a tough quartz anti-slip surface.

DESGIN

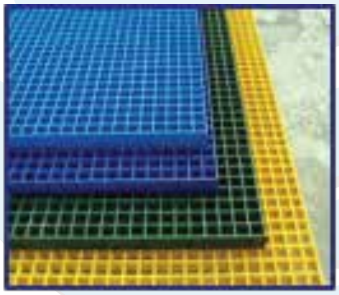
GRP construction profiles have a polyester resin matrix reaching a glass content of 65%.
The profiles could be produced with vinyl ester or phenolic matrix or with self-extinguishing properties. Standard colors are grey, white or yellow

SIZES & AVAILABILITY

The standard panel sizes of the GRP gratings are as per the international standard sizes of the mold, the sizes of the mold are 3660 mm length with 1220mm width. The gratings thick and mesh opening will change upon the requirement. GRP Gratings can be fabricated (size and shape) upon the project specifications, but the maximum width length and width will be as above-mentioned size only. Gratings length or width required above than the panel sizes, the gratings can join with stainless steel accessories with additional load support.

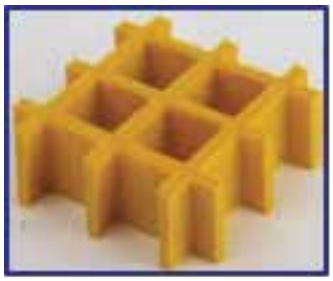
SURFACE

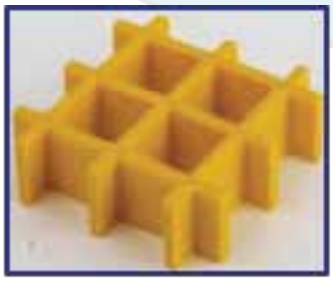
GRP construction profiles can additionally have a surface veil to provide an especially resin rich surface.
The profiles are UV-resistant and weather proof.
GRP Profiles systems are available as preassembled modules.



MODEL & STYLE


CONCAVE SURFACE


SMOOTH SURFACE


DIAMOND TOP COVER


GRITTED TOP COVER


GRITTED SURFACE


MINI MESH SURFACE


MICRO MESH SURFACE


HEAVY DUTY

Legend Thickness (Thickness-T) - Bar thickness (Top/Bottom) - Mesh size - Panel Size (all the thickness are millimeter) & Weight (kg/m2) - Open Rate (%)






COLOUR

Our standard finish is smooth & reflective gel-coat, offering excellent chemical and weather resistance in extreme environments. An extensive scope of colors is offered from the BS 4800.

FIRE PROTECTION

Our standard finish is a fire retardant resin. The standard construction will provide half hour fire resistance, compliant with BS 476 part 22 (retention of stability, integrity and insulation). Fire retardant resin is used to form a self-extinguishing laminate to BS 476 part 7 class 2 (surface spread of flame). Increased levels of protection can be offered if required. The products are tested as per QCS 2014 specification ASTM E84.



Flame Spread Rating ASTM E84

Description	:	Superior corrosion resistance and retardant
Corrosion resistance	:	Excellent
Flame spread Rating	:	ASTM E84, Class 1, 25 or less
Materials Tested	:	Saudi Arabian Standard Organization General Lab & Exova Canad

شركة جودوين قطر ذ.م.م

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