



# STONGRATE

FIBREGLASS COMPOSITES



## ABOUT STONCOR AFRICA

StonCor companies are the platform operating entities for RPM Performance Coatings, which has its head office in New Jersey, USA. Our platform companies can be found in Africa, the Middle East, India and South America and represent the various brands within RPM.

We pride ourselves in manufacturing, specifying and supplying world class products for a wide variety of construction, repair and specialised rehabilitation projects. We incorporate our knowledge and expertise with new innovation from our global network of technology partners, to lead in composite gratings and profiles, handrails, structural shapes, protective coatings, resin flooring, bridge expansion joints, roofing, sealants and concrete repair markets.

# STONGRATE FRP

## PRODUCTS

Stongrate Fibreglass Composites is a material that combines unmatched corrosion resistance with strength, long life and safety. Stongrate provides turnkey design and fabrication of moulded gratings and fibreglass structures including platforms, cable management systems, cat ladders, stairways, handrailing, etc. Our professional technical support and design team can help you find the right solution to meet your needs for longevity, safety and cost savings.

### INDUSTRIES

- Metals and minings
- Construction engineering and transportation
- Petrochemical engineering, water engineering and waster water
- Food and beverage
- Oil and gas

### FUNCTIONS

- Anti-slip floor, stair tread, foot bridge
- Operation platform, trench cover
- Security and safety fence, handrail
- Off-shore oil rig, moor shipyard, shipping deck and ceiling
- Ramp ladder, scaffold and railway footpath
- Decorative grid, and man-made fountain pool grid

### ADVANTAGES

- Fire retardant
- Corrosion resistant
- Slip resistant
- No resale value
- High strength to weight ratio
- Long service life
- Maintenance free
- Non-conductive & -magnetic
- Light weight for ease of installation





## COMPARISON WITH CONVENTIONAL MATERIALS

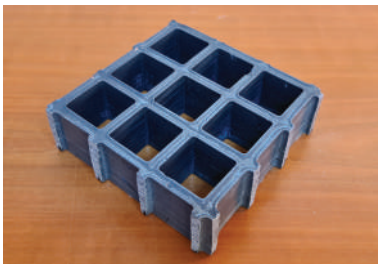
	FRP	Steel	Aluminium	Timber
Corrosion Resistance	High	Low	Medium	Low
Strength	High	High	High	Low
Weight	Low	High	Low	Medium
Electrical Conductivity	Low	High	High	Moderate
Thermal Conductivity	Very Low	High	High	Low
Fabrication	Easy	Easy	Moderate	Easy
Life Cycle Cost	Low	Moderate	Moderate	High
Environmental Impact	Low	High	High	Low

# MOULDED GRATINGS

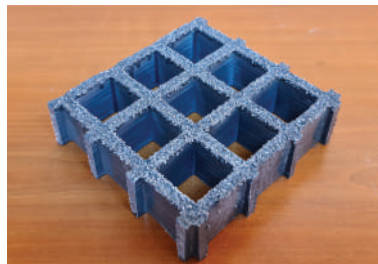
## STONGRATE FIBERGLASS COMPOSITES

Our fibreglass moulded gratings are manufactured in an open, heated mould system. Continuous E-glass roving's are placed in the mould in alternating layers and completely wetted out with resin. This continuous process produces an integral, one piece construction which provides excellent corrosion resistance as well as bi-directional strength. There are a number of different moulds available resulting in an extensive range of panel sizes, thickness and mesh patterns.

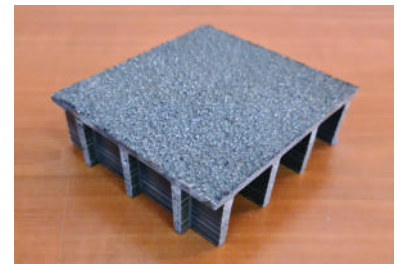
### SURFACES



Concave/ Miniscus Top



Gritted Top



Gritted/ Smooth Covered Top



**STONGRATE**  
FIBREGLASS COMPOSITES



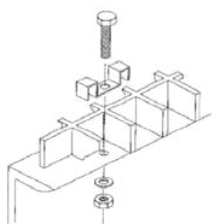
Grating sizes, thickness, generic specification and loading tables available on request.

## RESIN SYSTEMS

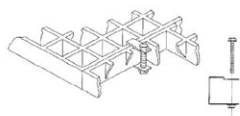
Resin Type	Resin Base	Description	Corrosion Resistance	Flame Spread Rating ASTM E84	Colours
IFR-25	Isophthalic Polyester Resin	Industrial grade corrosion resistance and fire retardant	Very good	Class 1, 25 or less	Green and Dark Grey
VEFR-25	Vinyl Ester Resin	Superior corrosion resistance and fire retardant	Excellent	Class 1, 25 or less	Orange

## ATTACHMENT CLIP ASSEMBLY

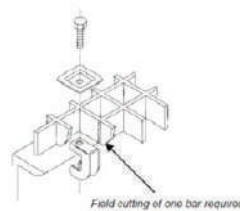
Stongrate offers/provides the specially designed joining and fastening clips required for the FRP Grating. All the attachments and clips are made from 316 Stainless Steel material and are available for the following grating thickness sizes: 25mm, 38mm and 50mm. A minimum of 4 clips are required per piece of grating.



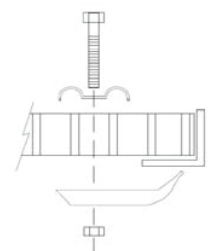
Type M  
Hold Down Clips



Type F  
End Panel Clips



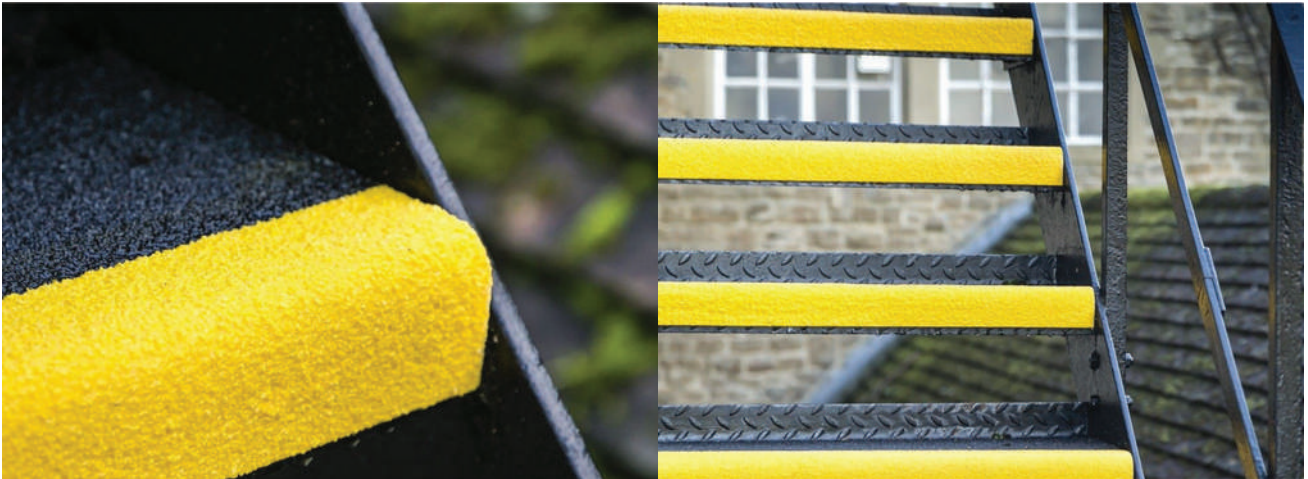
Type G  
Hold Down Clips



Type J  
Hold Down Clips

## OUR STONGRATE STAIR SOLUTIONS

Stongrate Fibreglass Composites provides slip and corrosion resistant products for your stairway safety needs. Our complete stair solution line includes panels in a one-piece moulded configuration for new or replacement steps; covered stair treads to replace deteriorating concrete steps; or stair tread covers designed to add slip and corrosion resistance to existing metal, concrete or wood steps. Stair treads are available in a one-piece molded configuration engineered to exceed OSHA and other model building code standards for safety, strength, durability, and corrosion resistance.



*Stair tread/ cover sizes, thickness, generic specification and loading tables available on request.*



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## OUR STONGRATE HANDRAIL & LADDER SYSTEMS

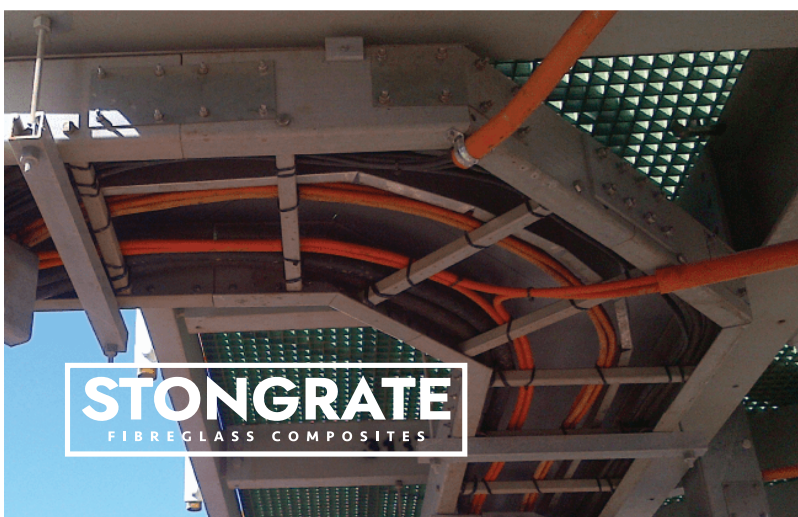
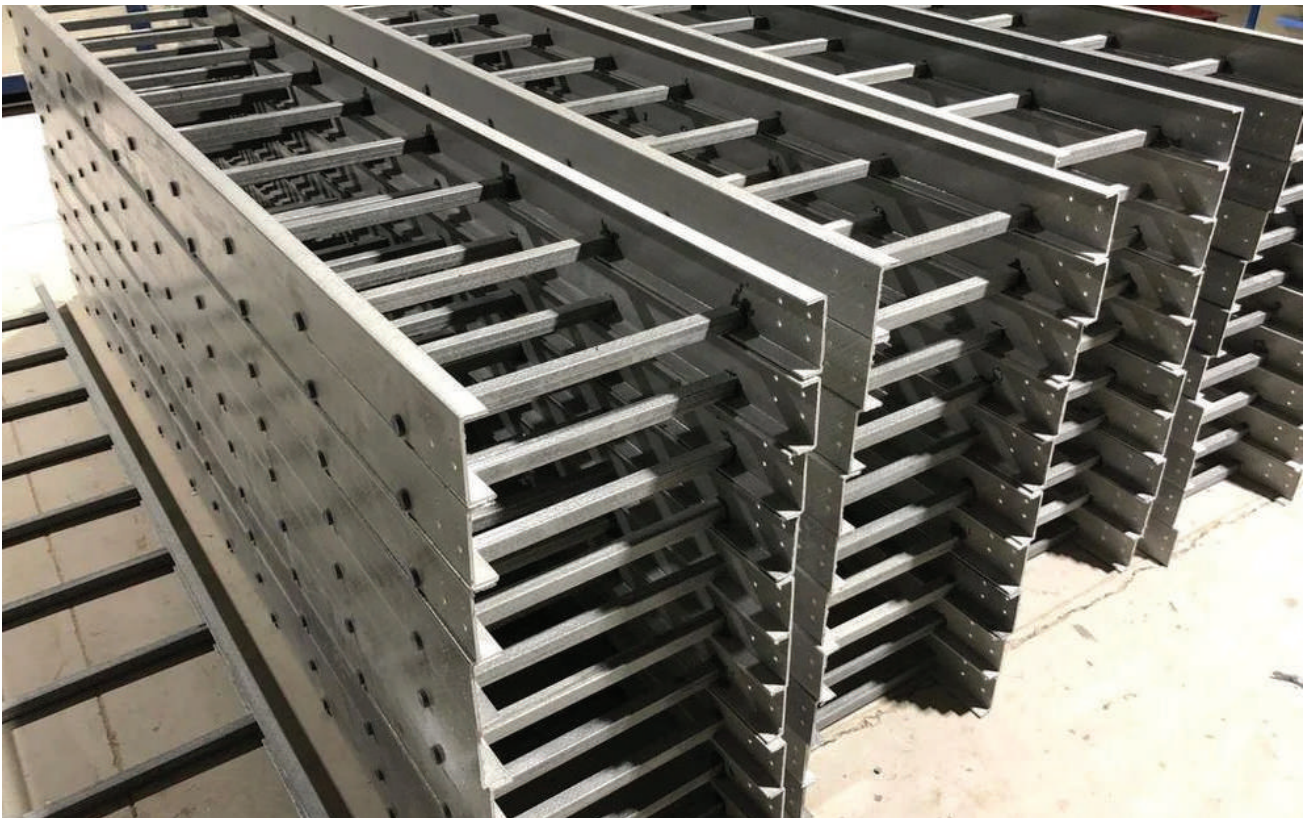
Combining corrosion resistance, long life, and a low maintenance design, Stongrate FRP handrail and ladder systems are superior to conventional metallic systems. These advanced systems are designed and manufactured to be easily installed with no guesswork involved. Components are lightweight and easy to fabricate. Savings on labor and equipment often make the total installed cost of Stongrate comparable to that of steel. Combining its low cost of installation with low maintenance and long life, Stongrate offers a life cycle cost that is significantly lower than that of its counterparts.

The innovative Stongrate Fiberglass Reinforced Plastic (FRP) safety ladder and cage system meet or exceeds OSHA requirements. Stongrate cage components are shipped in compact kit form - not large, bulky units prone to damage. The safety cage is ready for field assembly with predrilled hoops for fast and easy attachment to the ladder and vertical safety bars.

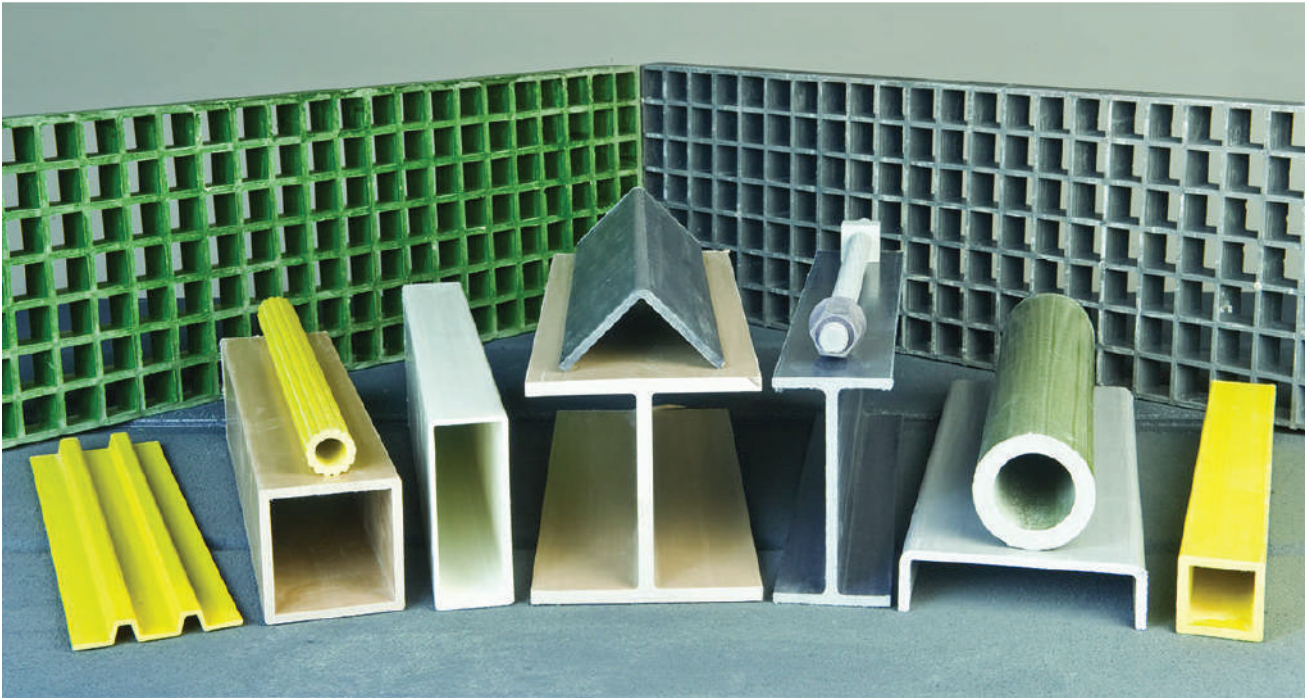
## OUR STONGRATE

# CABLE MANAGEMENT SYSTEMS

Stongrate Fibre Reinforced Plastics (FRP) Cable management systems are increasingly being considered as a superior material of construction in many fields. Therefore, FRP has proven to be immensely beneficial in a wide range of applications such as cable management. Stongrate FRP cable management systems are manufactured for a comprehensive array of cable management requirements, our systems are designed and manufactured with sturdy but light-weight components, making handling and installation of these systems easy and effortless.



Stongrate offers a full range of Cable management systems in varied sizes including accessories to suit any requirement. Stongrate provides two types of cable support systems - ladder cable tray and perforated cable tray. These systems are electric and thermally non-conductive, additional advantages include that of high strength to weight ratio, corrosion and chemical resistance, fire retardant and long-life cycle.



## OUR STONGRATE STRUCTURAL SHAPES

Stongrate fiberglass structural shapes are used in a wide range of applications and provide a unique combination of corrosion resistance, high strength, dimensional stability and lightweight, along with thermal and electric non-conductivity. Stongrate structural shapes provide years of low maintenance service in areas where steel, aluminium or wood components are traditionally specified. Today, these shapes are often used in highly corrosive applications where stainless steel and other expensive components were once required such as:



- Walkways and Bridges
- Handrails & Ladders
- Mezzanines
- Maintenance Platforms
- Tank Loading Platforms
- Access Platforms
- Helidecks
- Tank Covers and Supports
- Buildings and Sheds
- Pipe and Equipment Racks

## Gauteng

### Wadeville

📍 264 Murray Rd,  
Germiston

☎ 011 827 9791

### Meyerton

📍 Unit 2, 32 Albert Wessels St,  
Sybrand van Niekerk Park

☎ 011 612 5389

### Midrand, Head Office

📍 8 Cresset Rd, Chloorkop,  
Midrand Industrial Park

☎ 011 254 5500

## Mpumalanga

### Secunda

📍 Piper St, Extension 64,  
GateOne Business Park

☎ 017 634 4844

## Namibia

### Walvis Bay

📍 146 6th St,  
Walvis Bay

☎ (00264) 64 200342

## Western Cape

### Cape Town

📍 31 Nourse Ave,  
Epping 2

☎ 021 551 7885

## Eastern Cape

### Gqeberha

📍 29 Haupt Rd,  
Korsten

☎ 041 453 1981

## Kwazulu-Natal

### Durban

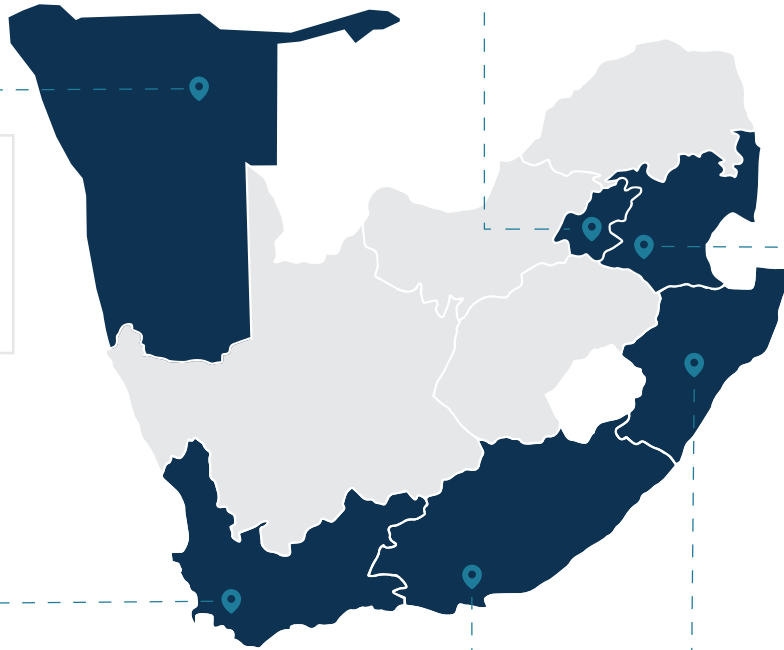
📍 8 Qashana Khuzwayo Rd,  
Trio Industrial Park, Pinetown

☎ 031 705 9386

### Richards Bay

📍 No 9 Ngoya Park,  
109 Alumina Allee, Alton

☎ 035 751 1414





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