

# Glass Reinforced Plastic (GRP)



## PRODUCT GUIDE

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## Glass Reinforced Plastic (GRP)

**As part of the Barrett Steel Group we are excited to bring Glass Reinforced Plastic (GRP) to our range of Safety and Access products. We have an experienced in-house Safety and Access team with many years working in this sector who are best placed to advise you on the application of this product to your project requirements.**

### Simply, GRP is made up of Resin, Glass Fibres, Additives and Colouring

These contribute to the materials unique selling points which are:

- Corrosion Resistant and Hardwearing
- Flexibility with excellent Impact Absorption
- Strong and Lightweight
- Fire Resistant and Chemical Resistance
- Low Maintenance and visually Aesthetically Pleasing

GRP can be applied to a wide range of project applications, just a few are listed below:

- Handrails and Walkways
- Trenches
- Overhead Gantries
- Work Stations
- Cooling Towers
- Railway Crossing Points
- Platforms and Structures

Sectors that particularly suit the application of GRP are:

- Railways and Highways
- Automotive Manufacture
- Offshore and Renewables
- Food Manufacture
- Waste Management
- Power Industries

\*Further information holding general data sheets, COSHH sheets and quality and testing information that is not included in this leaflet are available from our team upon request.



## Flooring (Moulded Gratings) and Treads

**Moulded GRP makes an excellent choice for flooring in many commercial and industrial environments as it is durable, highly slip resistant, corrosion resistant, quick and easy to install. GRP Flooring and GRP Treads are particularly good when applied to areas of high public footfall due to their anti-slip properties and hardwearing nature.**

The GRP Flooring we provide is a high performance composite grating system that comes in many variations of surface finish and mesh types to suit your application. These range from:

- **Gritted Top**
- **Concave Top (Ungritted)**
- **Covered / Solid Top**
- **Micro Mesh**
- **Heavy Duty**

There are various standard thicknesses from 13mm to 50mm and typically these come in standard panel sizes of:

- **3664mm x 1226mm (3.6m x 1.2m)**
- **3000mm x 1000mm (3m x 1m)**
- **2000mm x 1000mm (2m x 1m)**

**Aside from our standard panels we can offer bespoke cutting and shaping on flooring to suit your requirements.**

We can also apply additional finishing such as the application of Kick Flats which are perfect for elevated gantries and walkways.





## Colours and clips

**Our flooring is stocked in three industry standard colours plus a red phenolic grating option perfect for tunnel projects as it is fire and smoke resistant.**

**Grey = General Industry**

**Green = Power Industries**

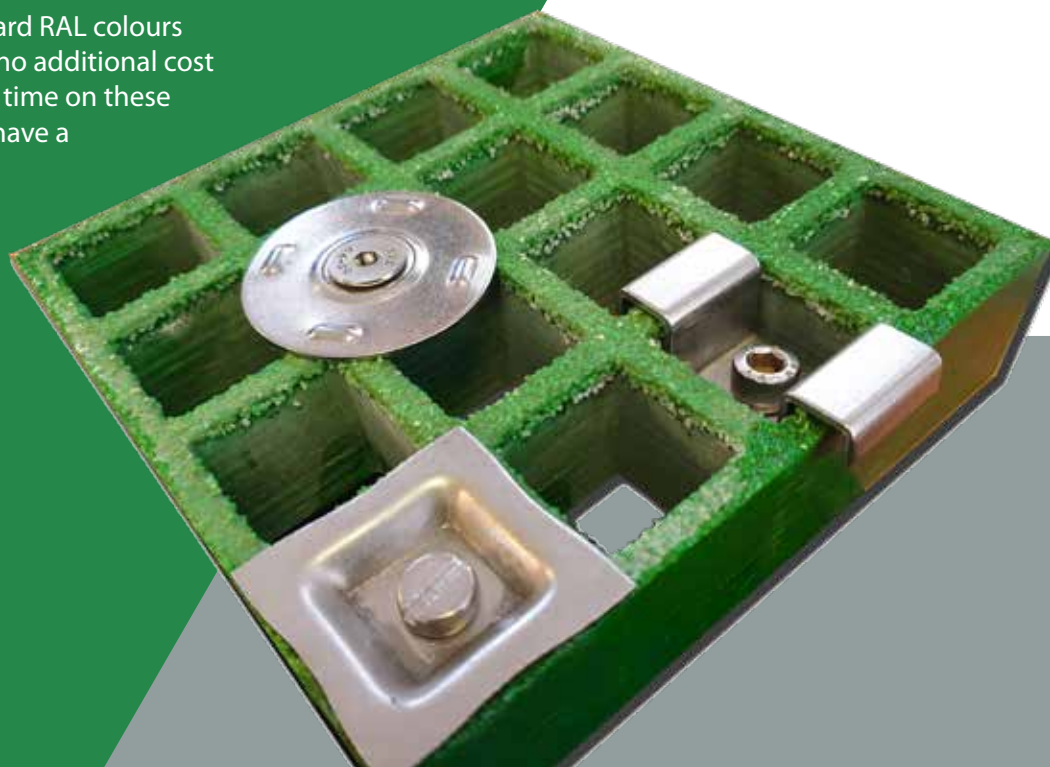
**Yellow = Safety Applications**

**Red = Oil, Gas, Offshore and Underground Rail**

## Applications

We are also able to offer all standard RAL colours and a colour matching service at no additional cost but please allow for a longer lead time on these products. All GRP grating panels have a UV inhibitor within the resin.

All GRP gratings can be supplied with the relevant clip type, in galvanised or stainless steel and as a friction clamp type fixing (where access is possible from below) or a positive fixing to the support structure.





## Handrailing and Ladders

**All GRP products are expected to have a 20+ years life span (subject to local conditions) making them a long lasting, maintenance free and cost-effective solution for a range of projects.**

GRP lends itself perfectly to be used as handrailing due to it being strong, durable and warm to the touch. It is lightweight allowing transportation around site and can be fitted with non-specialised tools which enables quick installation. GRP handrailing is a great solution for temporary requirements as well as long term installations. All our GRP handrail products meet the required standard for Flooring and Handrails for General Duty (0.36Kn/m) and BS4592:0 2006+a1 2012 Industrial.

Our Modular Handrailing is supplied in components, to be built up on site.

A 50mm diameter tube stocked in 5000mm long lengths is used to form the standards, hand railing and knee railing structures.

We stock a range of fittings including Bends, Elbows, Corners, Tee, Crosses and Post Bases. Our Post Bases come in 3 main styles; Triangular, Square and Side Fitting so can be utilized in a range of settings.

Handrailing is tested based on it being at a standard 1100mm high with bay centres at 1250mm and comes in Yellow (RAL 1003) as standard with limited components also available in Grey (RAL 7035).

*\*NB we also supply a wide range of End Caps/Toe Plate and Connection Bolts to complete your installation.*

GRP Bespoke handrails can also be supplied in part assembled modules for quick installation on site or as separate modular components.

Additional to the GRP Handrailing please enquire with our teams if you have a requirement for ladders or self-closing gates which we can also supply in this range.



## GRP Anti-slip plates and nosing

**Our GRP Anti-slip, retro fit plates and nosing come in a range of thicknesses from 3.5mm up to 12mm, and can be supplied in a variety of colours, and gritted surface finishes.**

They are ideal to be retrofitted to existing surfaces and substrates like concrete, timber and steel walkways and treads, where the existing anti-slip surface (due to high foot traffic and local conditions) may have started to deteriorate and become ineffective.

## GRP Structural Sections

We offer four types of GRP Structural Section, these are, but not limited to:

### **U Profile**

**- 44.5 x 20 x 3.2 to 300 x 100 x 15**

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### **I Profile**

**- 150 x 75 x 6 to 200 x 100 x 10**

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### **Angle**

**- 50 x 50 x 3 to 100 x 100 x 8**

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### **Square Box**

**- 51 x 51 x 3.25 to 90 x 90 x 8**

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\*Other sizes are available upon request

## Sectors utilising GRP products

### Offshore and Renewables



### Automotive Manufacturing



### Power Generation Industries



### Railways and Highways



## Our UK locations

**C ROBERTS**  
**STEEL SERVICES**



**For more information please don't hesitate to contact us.**

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