



## OPTIONS

### Stock colours available:

Steel grey  
High visibility safety yellow

### To order:

Other resin types and any RAL colour\*

### Sizes:

Diameter 50 mm  
Stocked length 6000 mm

### Kicker (Toe) Plate Dimensions:

Height: 100 mm Depth: 15 mm  
Stocked length: 6000 mm

### Fitting/Connector Range:

60° & 90° Tee | 90°, 120° & 150°  
Elbow | Adj. Elbow | 60° & 90° 2-Socket  
Cross | Top Corner | Mid Corner | Wall  
Socket Floor Socket

### Additional Options:

- > Cut to size prior to delivery
- > Full or partial fabrication prior to delivery
- > Full range of fasteners

\*Note: minimum order quantities & lead times apply. Not all fitting types are available as standard in Steel Grey. Please contact us for further information.

## SPECIFICATION

**Resin Type:** Isophthalic Polyester

### Characteristics:

Std: steel grey or safety yellow colour.  
Industrial grade corrosion resistance.  
Resin type offers fire retardant to ASTM E84 Class 1 and flame spread index 15 or less. Operating temperature range: -50C to +105C.

### Applications:

Suitable for all general industrial environments. Mid concentrations of inorganic acids & alkalis.

### Profiles manufactured/tested in accordance with:

ISO9001:2008 | EN13706 | EN 13501-1:2007

### Can be fixed to:

GRP grating platforms, concrete, metal or wooden substrates

### Fixing methods:

Rails are assembled by either plain or colour matched rivets or stainless bolt systems. Typical fixtures to concrete substrates are achieved using expansion anchors (stainless/galvanized or zinc plated) or chemical anchors.

## BENEFITS

- > Corrosion & chemical resistant with little or no maintenance (full details available)
- > Conforms to BS EN ISO 14122-3:2001 Safety of Machinery - Permanent means of access to machinery. Part 3: Stairways, stepladders & guard-rails.
- > Conforms to BS 6399-1:1996 Loading for buildings - Part 1: Code of practice for dead and imposed loads.
- > Available in high visibility safety yellow or steel grey
- > Cost effective replacements for end of life metal rails
- > Long lasting & durable
- > Suitable for interior/exterior use
- > Fire retardant - profiles tested accordance with EN 13501-1:2007
- > Impact resistant
- > Easy transport, handling & reduced load on existing structures
- > Rapid & simple fabrication - no welding
- > Range of fasteners to suit all scenarios
- > Low electrical conductivity
- > Low thermal conductivity
- > Easily cleaned (mild detergent)
- > Rapid delivery times on ex-stock items: typically 5 days for standard items\*
- > Pre-fabrication service available

\*subject to order type & size

## APPLICATIONS

Typical applications:

- Access platform walkways
- Pedestrian bridges, steps & walkways
- Worker access to machinery
- Manufacturing plants
- Marine vessel applications
- Water treatment works
- Offshore wind & oil facilities
- Railway trackside applications

## DESCRIPTION

Glass Reinforced Polymer (GRP) handrail systems are perfectly suited to interior, exterior and aggressive environments where industrial chemicals or acid/salt air may quickly corrode metal systems. For safety critical applications, products are available which have been tested and approved to safety standards BS EN ISO 14122-3:2001 & BS 6399-1:1996.

Available in high visibility safety yellow or steel grey, GRP handrails provide all the advantages of light weight, high strength and durability, coupled with a corrosion resistant, non-conductive, fire retardant and virtually maintenance free life.

The product provides for worker safety in a wide variety of exposed locations in all industrial and commercial environments e.g. water treatment works, marine applications, loading bays, walkways, guarding around machinery etc.

The light weight of the product makes transport, handling & installation far easier than metallic products. Rail systems can be made to size and partially assembled prior to delivery for immediate installation.