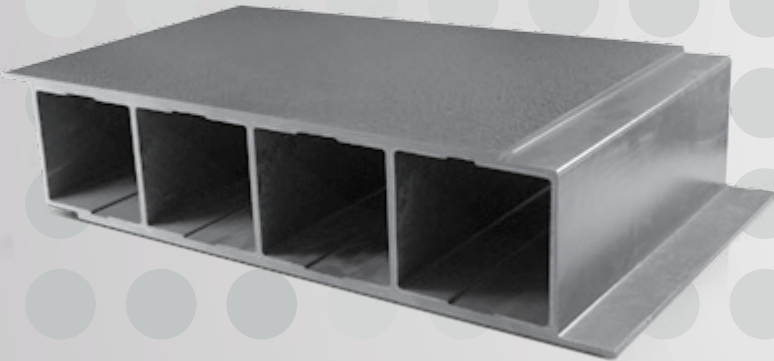
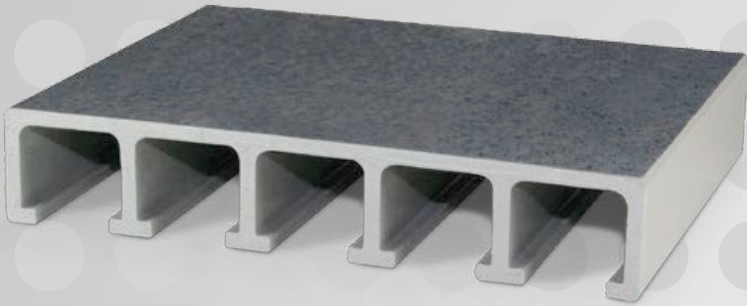


Manufacturers and Installers
of Prefabricated and In Situ
Slip Prevention Products
Cementitious and Resin
Flooring Solutions



Midland Industrial Flooring

FRP Pultruded Composites



Midland Industrial Flooring



“Performance you can trust”

For over 35 years Midland Industrial Flooring Ltd (MIFL) has offered a nationwide service, surveying, designing, manufacturing and installing overlay and structural slip prevention products and systems for the mass transportation network and infrastructure.



MIF has been at the forefront of innovation, design and development of an extensive range of specialist products, manufactured with a recorded and proven design life of over 30 years. MIF are able to offer bespoke synthetic resin and cementitious product solutions for both in-situ resin flooring and prefabricated infrastructure products, incorporating a broad range of slip resistant natural, fused or impregnated aggregates onto steel, aluminium, timber, engineering plywood, overlay GRP, pultruded FRP and cementitious substrates.



MIF provides its extensive range of standard and bespoke products to a wide range of industries including Network Rail, train and tram operating companies, local authorities, Highways Agencies, The Canal & River Trust, mass transit networks, ports and harbours and manufacturing industries.

We are fully conversed in the legislative requirements and operational demands required of our clients and will design, develop, manufacture and install bespoke solutions to meet them.

We have grown our market share through improved material performance, reduced whole life costs, right first time installations, attention to detail and consistently excellent customer service. We are a leading UK specialist in the design, manufacture and installation of slip resistant modular composite panels and specialist lightweight combined waterproofing and slip resistant wearing courses.



Although we specialise in bespoke solutions, we have an extensive range of standard product solutions for road bridges, cycle ways, footbridges, RORO, pontoons, caissons, ramps, gantries, staircases, track crossings, under-run protection, station platforms, steps and subways.



MIF FRP Pultruded Composite Profiles

MIF FRP is a fibre reinforced polymer pultruded profile for structural decking systems. The FRP profile is manufactured using commercial grade E or Ecr fibreglass and thermoset resins which are injected into the die under high pressure and shall meet or exceed our published properties.

The Slip Resistant Surface Profile can have a design life of 30 years, and the Pultruded FRP profile section has an estimated design life of 60 years.

Features Include:

- Tough and durable – long design life
- Impact resistant
- Lightweight construction
- Corrosion Resistant
- Structurally Stable
- High Strength
- Non-conductive
- Thermal range resistant and insulating
- Chemical and Stain Resistant
- Optional DDA/Equality Act Compliance
- Fire retardant pultrusion & coatings
- Standard Installation Methods
- Range of Slip resistant surfaces
- Extensive range of surface colours
- Standard Installation Methods



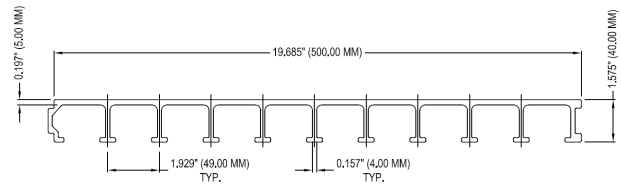
Technical Data (Typical)

- Description: Slip resistant safety flooring panels, planks & treads
- Environmental Applications: Internal, external, marine or sub terrain
- Material Grade: Isophthalic Polyester
- Pultrusion Weathering UV Protection: Thermoplastic isophthalic polyester resin technology
- Coating Weathering UV Protection: Additional UV resistant coating and sealers available
- Fire Spec: BS 476 Part 7 Class 1
BS 476 Part 20/21 22min Structural
- Surface Profile Grades: Various grades available, from heavy vehicular to light pedestrian and barefoot
- Surface Appearance: Semi-gloss, Silk, Matt or Natural Stone
- Aggregate: A selection of aggregate colours and sizes are available
- Wearing Coating Thickness: Typically, this ranges from 3-10mm depending on requirements.
- Standard Wearing Coating Weight: 2.5 – 30Kg/m² depending upon specification
- Pultrusion Colour: Typically Dark Grey (Ral 7043)
- Wearing System Colours: Black, Light, Mid & Dark Grey, Racing Green, Light Green French Blue, Dark Blue, Traffic Red, Safety Yellow and Chocolate Brown. A selection of other BS4800 and Ral – K7 special colours are available
- Sight Lines: Typically, in ultra violet resistant white or yellow resin
- Chemical resistance: Mineral acids, dilute alkalis, detergents, alcohol, petrol, paraffin, white spirit, vegetable oils, diesel, lubricating oils and greases. Our technical department can give specific advice where required

Separate full technical data sheets are available on request

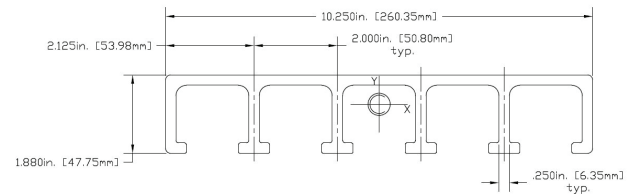
FRP 40 Panel

- Standard Naked Profile Thickness: 40mm
- Standard Maximum Profile Width: 500mm sections
- Standard Maximum Profile Length: 6m
- Standard Naked Profile Weight: Approximately 15.1 kg/m²
- Max clear span low density 1.5kN/m² WL is 2,072mm*
- Max clear span high density 5kN/m² UDL is 1,212mm**
- Max clear span high density 7.5kN/m² UDL is 1,058mm**



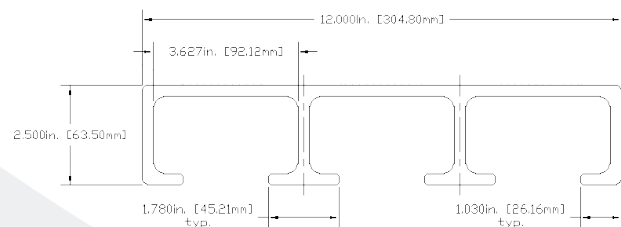
FRP 48 Plank

- Standard Naked Profile Thickness: 48mm
- Standard Maximum Profile Width: 260mm sections
- Standard Maximum Profile Length: 6m
- Standard Naked Profile Weight: Approximately 26.7 kg/m²
- Max clear span low density 1.5kN/m² WL is 2,887mm*
- Max clear span high density 5kN/m² UDL is 1,688mm**
- Max clear span high density 7.5kN/m² UDL is 1,475mm**



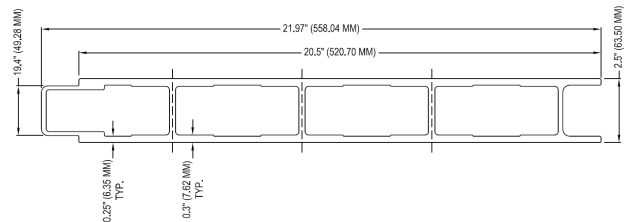
FRP 64 Plank

- Standard Naked Profile Thickness: 64mm
- Standard Maximum Profile Width: 305mm sections
- Standard Maximum Profile Length: 6m
- Standard Naked Profile Weight: Approximately 30 kg/m²
- Max clear span low density 1.5kN/m² WL is 4,194mm*
- Max clear span high density 5kN/m² UDL is 2,453mm**
- Max clear span high density 7.5kN/m² UDL is 2,143mm**



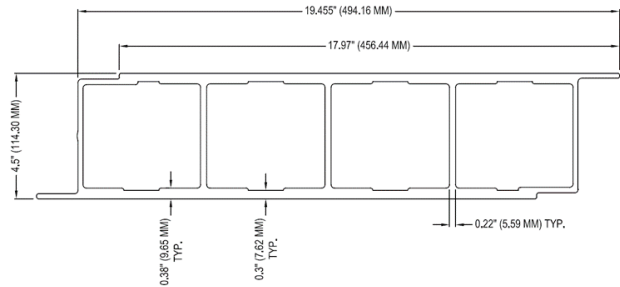
FRP 64 Panel

- Standard Naked Profile Thickness: 64mm
- Standard Profile Width: 558mm sections
- Standard Maximum Profile Length: 6m
- Standard Naked Profile Weight: Approximately 33.2 kg/m²
- Max clear span low density 1.5kN/m² WL is 3,899mm*
- Max clear span high density 5kN/m² UDL is 2,280mm**
- Max clear span high density 7.5kN/m² UDL is 1,992mm**



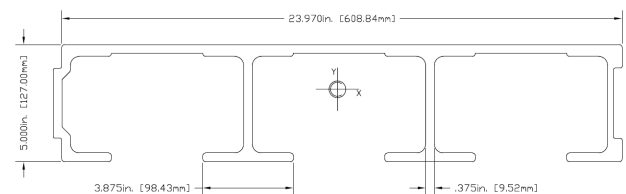
FRP 114 Panel

- Standard Naked Profile Thickness: 114mm
- Standard Profile Width: 494mm sections
- Standard Maximum Profile Length: 6m
- Standard Naked Profile Weight: Approximately 44.4 kg/m²
- Fire Retardancy BS476 Part 20/21 22min Structural
- Max clear span low density 1.5kN/m² WL is 6,477mm*
- Max clear span high density 5kN/m² UDL is 3,788mm**
- Max clear span high density 7.5kN/m² UDL is 3,309mm**



FRP 127 Panel

- Standard Naked Profile Thickness: 127mm
- Standard Profile Width: 609mm sections
- Standard Maximum Profile Length: 6m
- Standard Naked Profile Weight: Approximately 46 kg/m²
- Max clear span low density 1.5kN/m² WL is 7,017mm*
- Max clear span high density 5kN/m² UDL is 4,103mm**
- Max clear span high density 7.5kN/m² UDL is 3,585mm**



* D=L/200

** D=L/300

Bridging the Gap

Midland Industrial Flooring have a range of FRP structures to suit many applications covering span lengths from 1.5 metres up to 30 metres and span widths from 1 metre up to 4.5 metres.

Lightweight

Our structures are prefabricated in lightweight component profiles for easy transfer to limited access locations.

Low Maintenance

The inherent properties of fire reinforced plastic profiles minimize the need for maintenance associated with corrosion and rot.

Reliable/Resilient

FRP profiles have longer lives and exhibit a lower carbon footprint and embodied energy as compared to steel and aluminium. Pultruded members are inert and will not leach any chemicals into the environment.



FRP Boardwalk

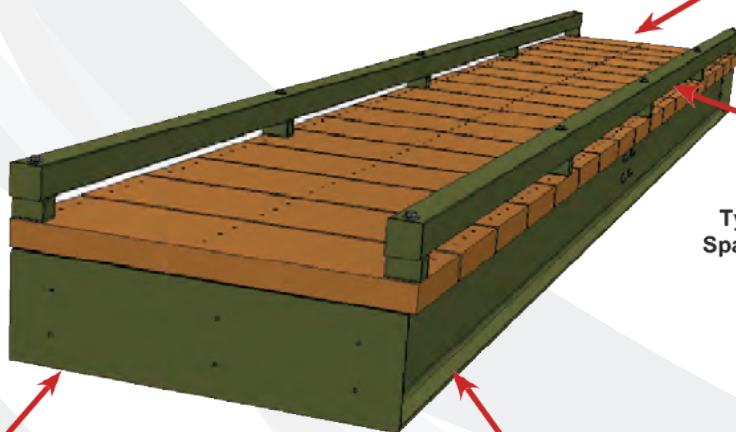
Standard Galvanized or Optional Stainless Steel Hardware & Fixings

A Full Range of Timber, Composite or FRP Decking Solutions Available

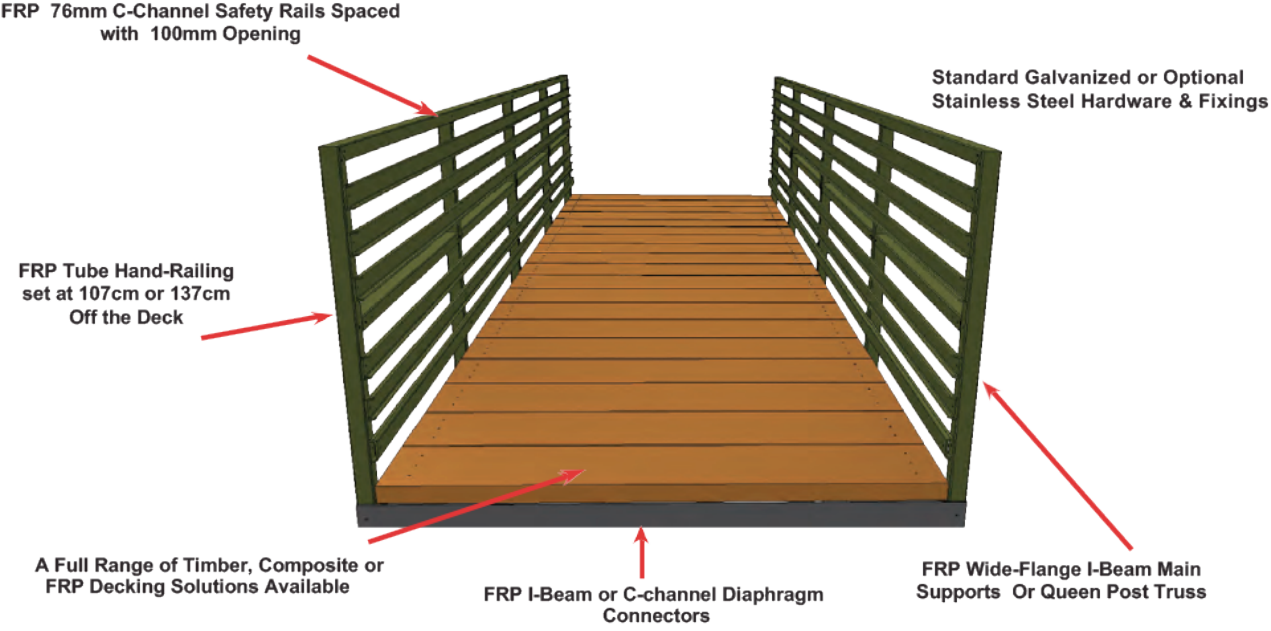
Typically FRP Curbing with FRP Spacers. Other Products Available

FRP I-Beam or C-channel Diaphragm Connectors

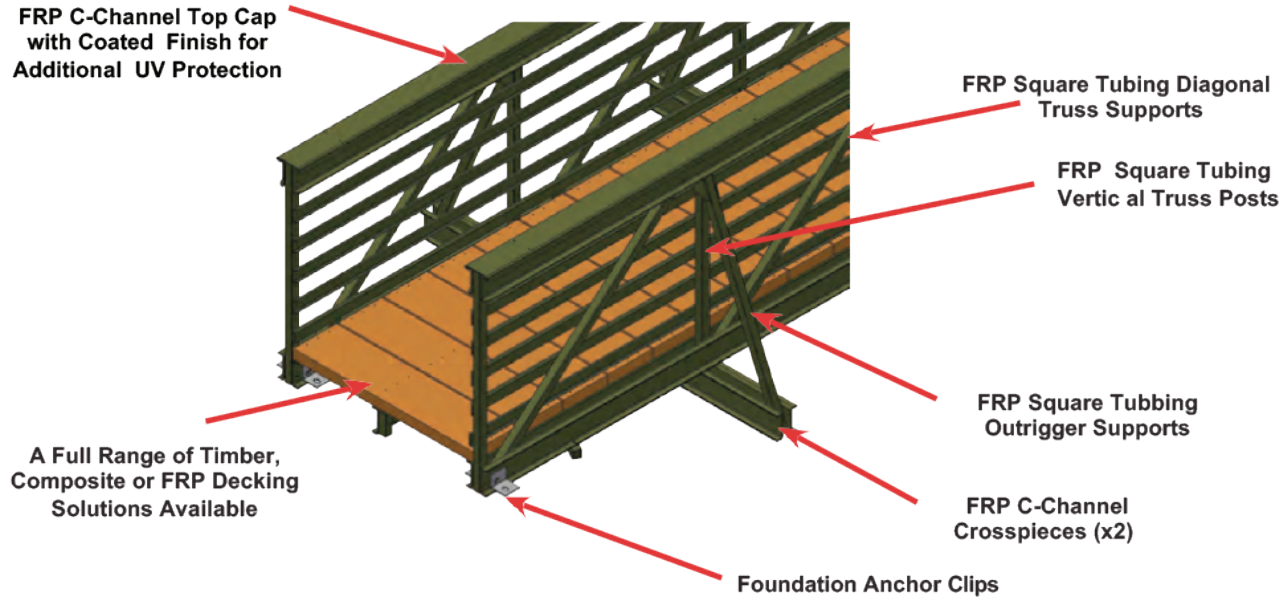
FRP Wide-Flange I-Beam Main Supports



FRP Beam Bridge



FRP Truss Bridge



Slip Prevention Products for:

- Caisson Decks
- Bridge Decks
- Bridge Steps
- Stair Treads
- ROROs
- Decking
- Gantries
- Pontoons
- Walkways
- Train Steps
- Cattle Grids
- Point Boards
- Access Ramps
- Track Crossings
- Station Platforms
- Maintenance Yards
- Shepherd Boarding
- Under-run Protection
- In Situ Resin Flooring

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