



Quality isn't important, it's Vital.

UK's Advanced GRP Solutions

UTILITIES INDUSTRY



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anglianwater
Supplier #: 218492

Welcome to Vital GRP

At Vital GRP, we understand that every successful project begins with a foundation of trust, vision, and excellence. As a dynamic leader in the construction industry, we are committed to delivering innovative, high-quality solutions that drive long-term value for our clients and investment partners.

This brochure highlights our capabilities, and the principles that guide our work — safety, sustainability, and strategic growth. Whether you're looking to invest in a reliable construction partner or collaborate on your next ambitious project, we invite you to discover how Vital GRP turns plans into progress and builds success from the ground up.



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Contact Details

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Our GRP Services

Tailored to your unique needs

We offer end-to-end solutions in Glass Reinforced Plastic—design, manufacture, and installation—all customized to your needs.

Whether it's a full-service project or straightforward advice, we're here to help you make the right choice.

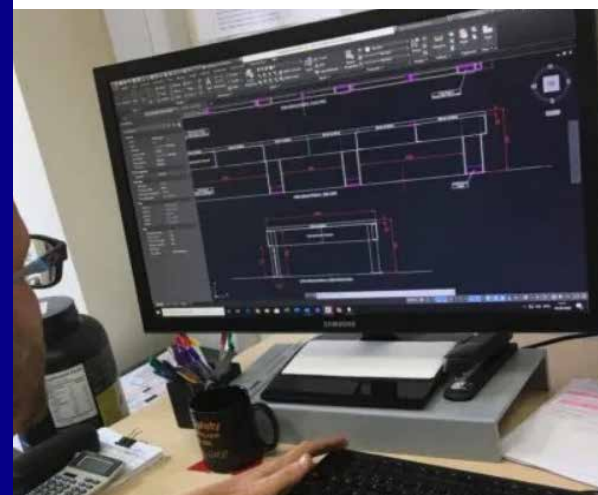
FREE Consultation

Talk to us — No Pressure.
Meet your dedicated account manager for a free, no-obligation consultation. Get expert advice, honest pricing, and a custom quote — all with zero stress.
Real solutions. Total confidence.
Hassle-free!



Design Support

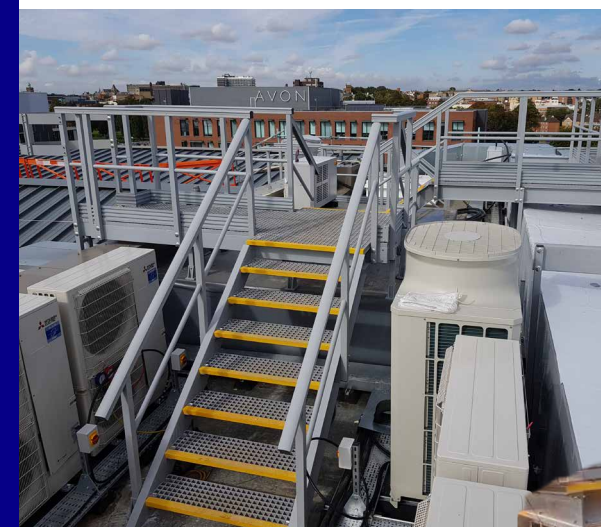
Vital GRP provides expert CAD support to help you develop safe, efficient, and compliant GRP systems for your projects. Using advanced technology software, we work closely with your engineers and support your existing designs – collaborating to achieve the ideal GRP solution and ensuring practical, buildable results from conception to completion.



Fabrication & Installation

At Vital GRP, our in-house team delivers custom GRP components with speed and accuracy — from bespoke pieces to full-scale production. Every part is crafted using advanced technology and rigorously quality-checked.

Our trusted installation team ensures smooth, safe, and reliable execution — from planning to final fit.



Fast, Sustainable Delivery

Fast, Sustainable GRP Delivery
Across the UK & Northern Ireland —
That's the Vital GRP Standard.

From our workshop to your site, we deliver high-quality GRP products with speed, reliability, and a commitment to sustainability.

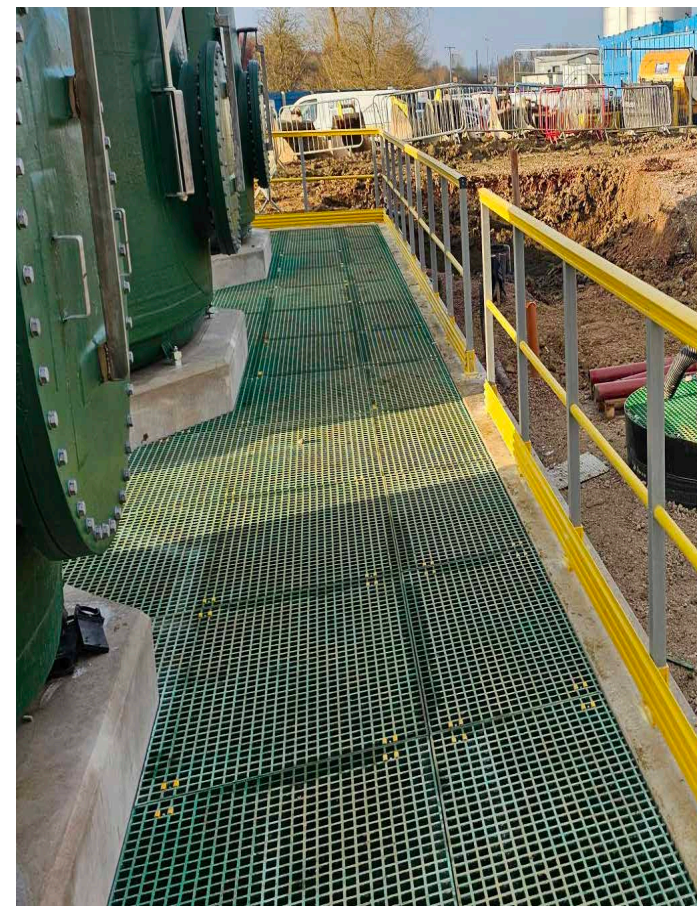
- UK-wide coverage
 - Smart route planning to cut emissions
 - In-house manufacturing = fewer delays
 - Consistent quality, every time
- Sustainability isn't a buzzword — it's how we move.



Utilites Solutions

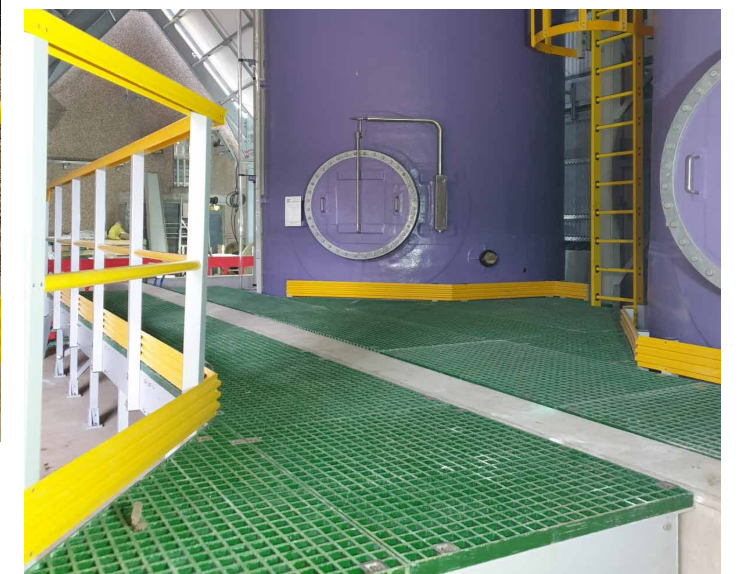
From state-of-the-art nuclear power stations to village recycling centres, we offer a wide range of bespoke access solutions designed to keep staff, engineers and visitors safe.

Bund Floors



Adding a level GRP Bund Floor with surrounding walls creates a trip and slip-free platform. Access stairs and handrails enhance safety. Vital GRP Bund Floors use QuartzGrip anti-slip mesh grating on a free-standing framework made from Universal GRP Structural Profiles, avoiding drilling into bund walls. GRP is waterproof and chemical-resistant, ensuring durability during spills.

Each bespoke floor is made to fit your bund precisely, with seamless installation by our expert teams.



While bunded floors are crucial for containing spills or leaks from containment tanks, they can pose access challenges for maintenance engineers and tend to collect debris, especially when located outdoors.

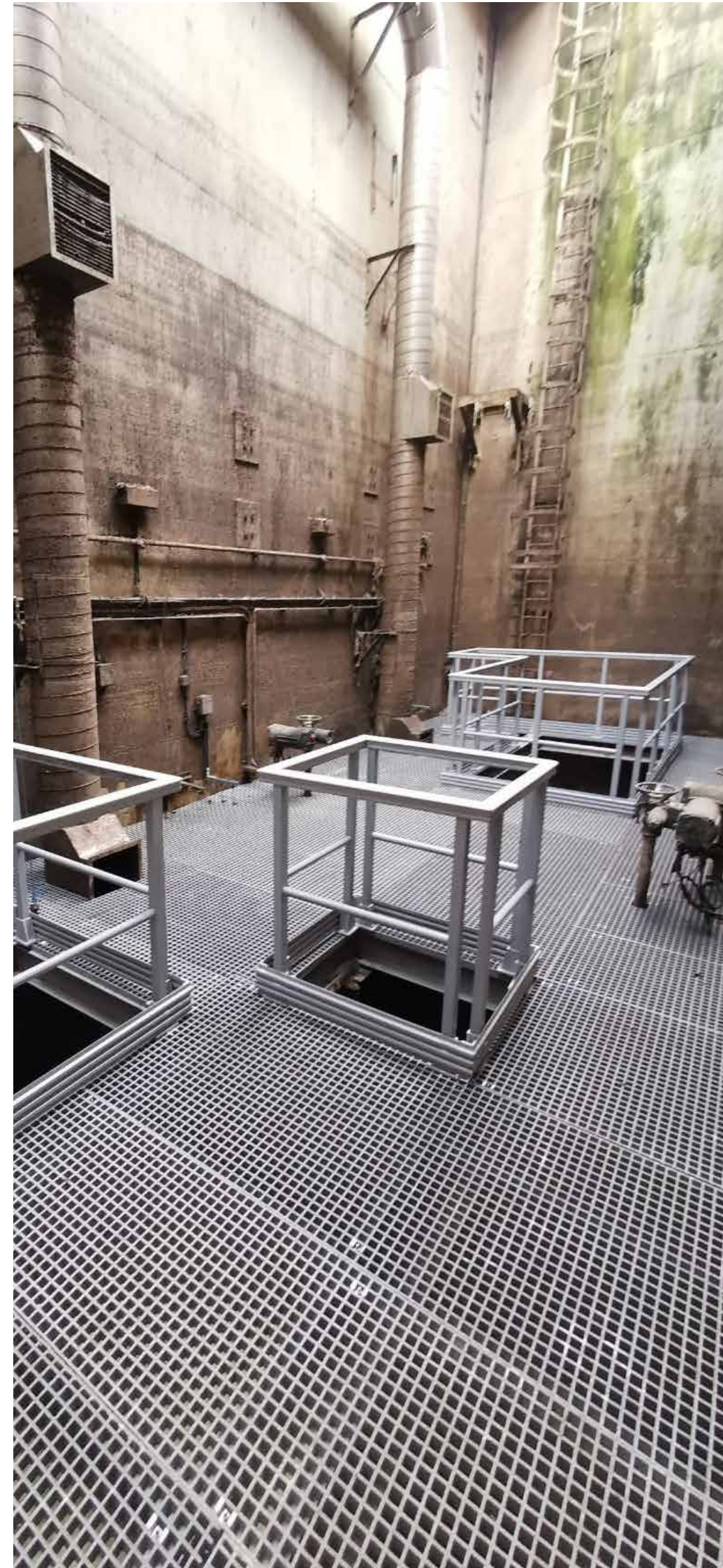
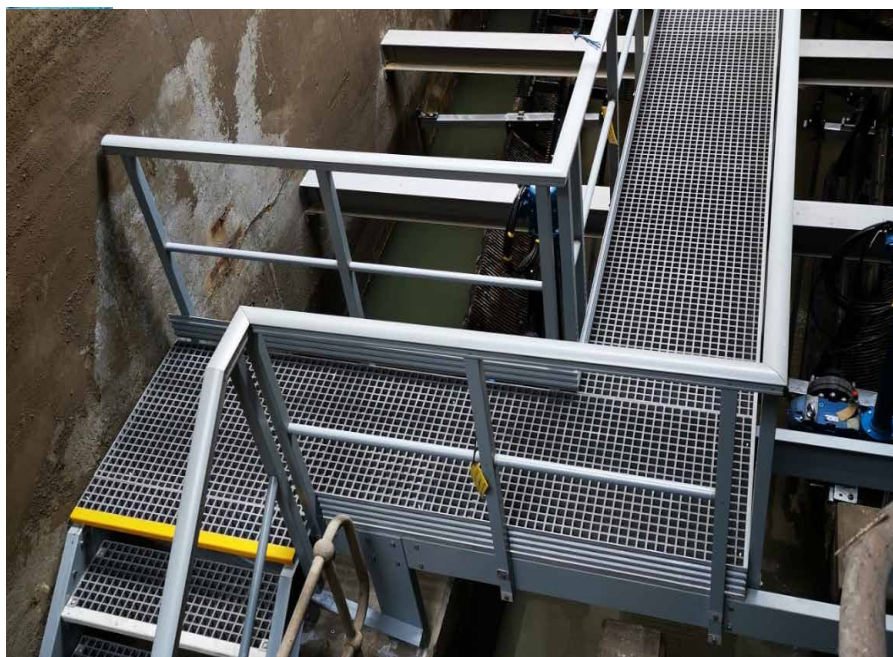
Maintenance Platforms

Accessing multi-floor machinery, control panels, and maintenance hatches can be challenging due to their placement and the need for safe access. We specialize in designing, supplying, and installing a wide range of GRP Stairs, Gantries, and Access Platforms. These structure range from simple threshold steps to intricate high-level platforms, ensuring that both operation and maintenance crews remain safe at all times.

Using your site dimensions and the latest design technology, our designers create bespoke solutions tailored to your exact requirements. Our fibreglass structures are manufactured from heavy-duty pultruded profiles. These profiles are approximately 80% lighter than conventional steel and about 30% lighter than aluminium. This significant weight reduction not only facilitates easier installation but also provides cost-saving benefits and reduces the load on existing substrates, such as rooftops and mezzanines.

To ensure optimal safety, we incorporate 38mm thick tread grating with an integral solid reinforced nosing in all our designs. This provides excellent slip resistance, making it safer for personnel to move around. Our GRP Stairs and Access Platforms are also corrosion and weather resistant, which means they require minimal maintenance, even when exposed to harsh outdoor conditions.

Each of our GRP solution is designed with longevity and safety in mind, ensuring that your infrastructure remains functional and secure for years to come.



We're with you every step of the way.

FIRST CONTACT

Call or email us, and you will hear from us as soon as possible to discuss your requirements.

INITIAL QUOTE

We provide you with price guidance to help you decide whether to proceed with a product-only option or our full GRP Services.

SURVEYORS

Depending on the complexity of your project, our surveyor may need to visit your site to take accurate measurements

DESIGN SUPPORT

Using the site survey and your existing designs, our in-house CAD team will develop the optimal GRP solution tailored to your project. We will work closely with you throughout the design phase, refining the proposal as needed until it is approved by our contracts team for final sign-off.

BUILD & QUALITY CHECKS

Upon design and cost approval, our fabrication team will build your structure or cut the materials in our state-of-the-art workshop to the highest quality standard before being shipped off. Additional fixing are attached for the final destination

INSTALLATION

Our highly trained and experienced installation teams are fully certified to work in all kinds of environments including Tracksides. They'll be prepared with tools, spare fixings and required PPE on site once materials arrive.

SIGN OFF

Once we're happy with what we've done, you'll be invited to inspect the work and check that you too are pleased with the finished project. Once any snagging is completed, the job will be signed off and your GRP solution is good to go.



Fall-Arrest Manhole Covers

Ideal for waste and effluent wells and tanks, GRP Fall Arrest Manhole Covers ensure engineer safety during inspections and allow full access for maintenance.

The lockable top cover, made from QuartzGrip Solid Top Grating, reduces odors and has hi-vis edges to minimize trip hazards. A second cover with a QuartzGrip Open Mesh Grating safety grille prevents falls while allowing a clear view of the contents. Both covers are hinged for easy lifting and replacement, preventing them from being dropped into the container.

Unlike steel or concrete, GRP is lightweight, water and chemical-resistant, and maintenance-free for decades. The anti-slip finish on both solid and open mesh covers reduces slipping risks. Manufactured to BS EN 124-5:2015 standards, they can be designed for vehicular use and fit within existing steel or concrete collars, or we can create the frame. They can also be retro-fitted into sump covers.

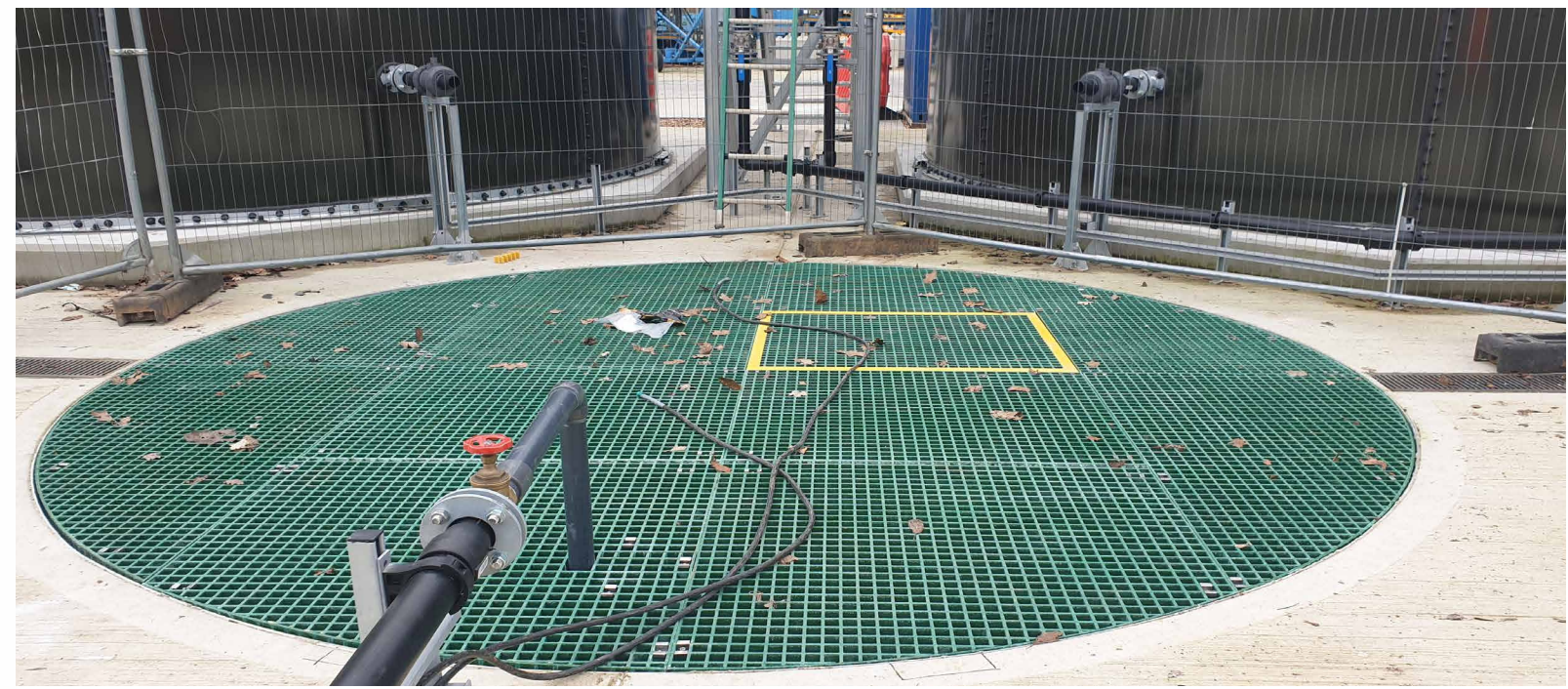


Chamber Covers



GRP Grating – open or solid top – is an ideal material for covering sumps, tanks, drains, manholes, trenches and pits. It's corrosion free, chemical and impact resistant and remains anti-slip even in wet or oily conditions. What's more, it's less than half the weight of metal or concrete covers, making its removal for maintenance access much easier. Covers can be cut to any shape or size and can be fitted with access hatches or hinged so they can be folded back. Choose standard or mini mesh versions to allow water to seep through whilst filtering debris or solid top versions that will keep all dirt and debris out and odours in.

They can also be made watertight. Our QuartzGrip Grating is stocked in green, yellow or grey but can be produced in any RAL colour if required. We can produce covers to your own specification for you to install, or we can install them for you.





GRP Permanent Working Platforms

Accessing control panels and maintenance hatches in hard-to-reach places can be a challenge, especially when safety is a priority. We specialize in designing, supplying, and installing bespoke GRP working platforms tailored to your specific environment. Our platforms range from simple threshold steps to high-level platforms, ensuring that operational and maintenance crews can work safely and efficiently.

Let us help you create a safer and more accessible workspace with our custom GRP solutions.

Safe Access Solutions We design, supply, and install bespoke GRP platforms for control panels and maintenance hatches in hard-to-reach places. Our solutions ensure the safety of operational and maintenance crews, from simple steps to high-level platforms

Precision Engineering Using advanced design technology, our designers create custom designs based on your site dimensions. Our fibreglass platforms are 80% lighter than steel and 30% lighter than aluminium, reducing installation costs and loading on substrates like rooftops and mezzanines.

Anti-Slip Flooring QuartzGrip Anti-slip grating is used in all our stairs and platforms, with 38mm thick grating and solid reinforced nosing for optimal slip resistance. Continuous handrails provide fall protection and our platforms require minimal maintenance due to their corrosion and weather resistance.



Access Ramps

A well-placed ramp will make life a whole lot easier for anyone using wheels – from child buggies, wheelchairs and mobility scooters to wheeled luggage, tool boxes, trolleys or even vehicles. Adding a ramp to improve pedestrian or vehicular access into and around buildings, platforms or even other vehicles can be done with mobile or permanent solutions. Whether it's constructing a ramp from scratch or improving an existing one with anti-slip flooring or handrails, Step on Safety has the solution you need. Constructed using QuartzGrip anti-slip GRP open mesh grating, solid top panels or flat plate floor sheets and finished with ramp edging, a ramp provides smooth, safe access.

Mobile Access Platforms

Typically seen at household waste & recycling centres, a Mobile Access Platform allows people to safely throw their refuse into containers while allowing operatives to move the steps easily from one container to another as they fill up.

It's not just recycling centres that can benefit from a Mobile Access Platform. They can be built to any size so are ideal for providing occasional and flexible cleaning or maintenance access to machinery, lighting, ventilation systems or windows. Wheels are braked so while they're in use they won't move around. GRP is much lighter than the steel equivalents, making the MAPs easier to manoeuvre while maintaining strength.

It's also anti-slip, even when wet, impact-resistant and won't rust so will last longer with little to no maintenance. All the materials used are self-coloured and UV-stable so won't chip or fade. It's much quieter to walk on too, helping to reduce noise on site.



Mecana Access Platforms

Provide engineers with safe access to your MECANA Waste Water Filtration Units with Vital GRP's specialist GRP Platforms. Specifically designed and built to suit each location, they include stairs, platform, access ladders with safety cage and handrails.

Every platform is made to meet WIMES 9.02 (Permanent Access Fabrications) standards and conforms to Approved Documents M and K regarding access and protection from falls. Every Vital GRP structure is built to a minimum Safe Working Load (SWL) of 5kN/m².



Why choose GRP?

- The GRP Profiles and Open Mesh Grating used are impervious to water and chemicals so won't rot, rust or suffer from corrosive pitting

- There is no electrolysis or galvanic reaction

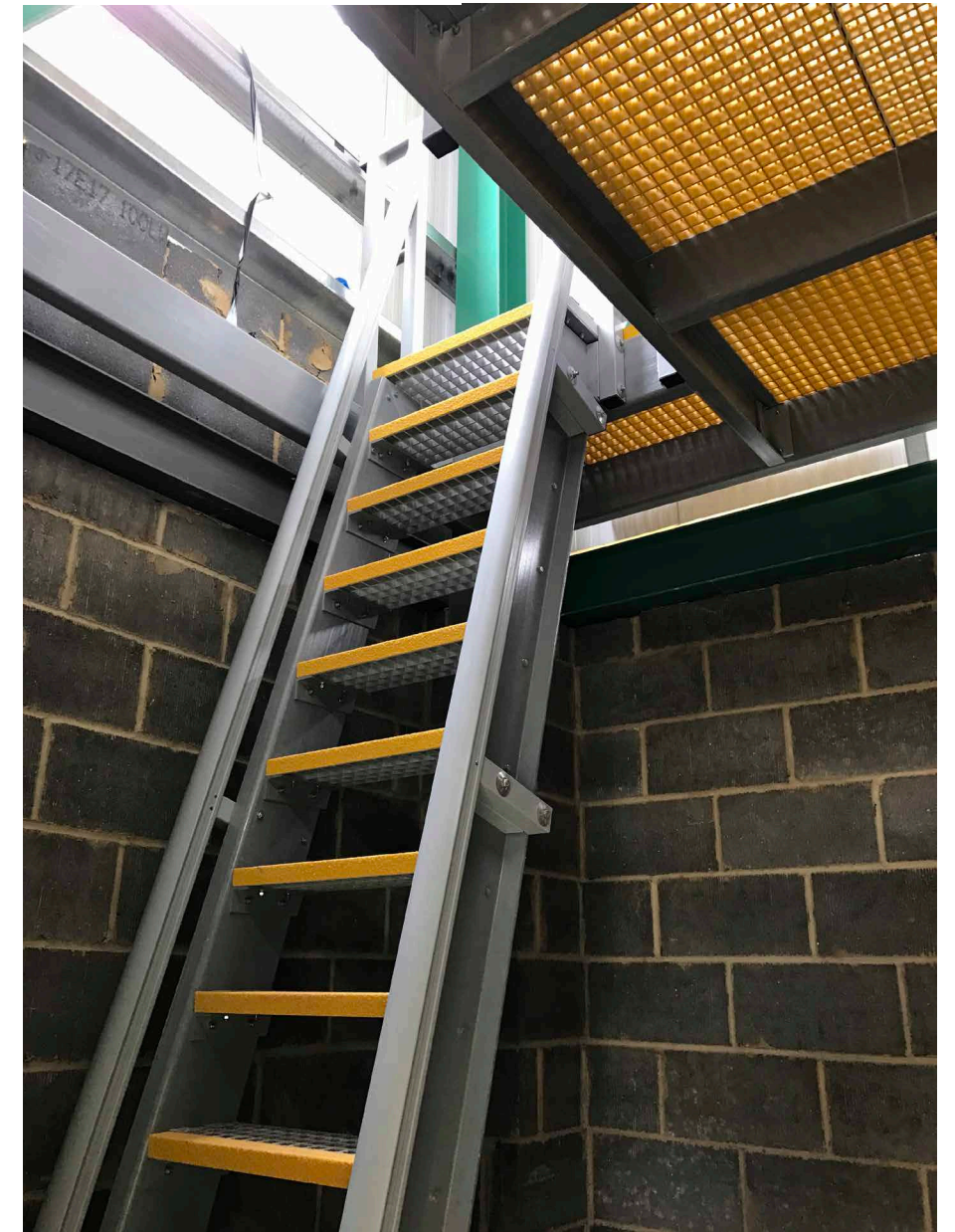
- The stainless steel 316 fixings are also chosen to cope with the challenges posed by a waste water environment

- The QuartzGrip GRP Grating has a gritted finish that remains non-slip even when wet, icy or oily

- GRP is a fraction of the weight of steel equivalents making it much easier and faster to install - one platform will normally take just one or two days to install

- The platform can be supplied in modules if lifting equipment is not easily available

- It's quieter to walk on and warmer to the touch than steel



Access Ladders

- Manufactured from pultruded structural sections which, when compared weight-for-weight, are far stronger than their metal counterparts.
- Manufactured from premium grade GRP
- Anti-slip surface underfoot
- Built in accordance with BS 4211 and BS 5395
- Safety Hoops available
- Durable and long-lasting
- Ideal for use in corrosive or industrial environments
- Resistant to corrosion, non-conductive and non-magnetic

Step Overs

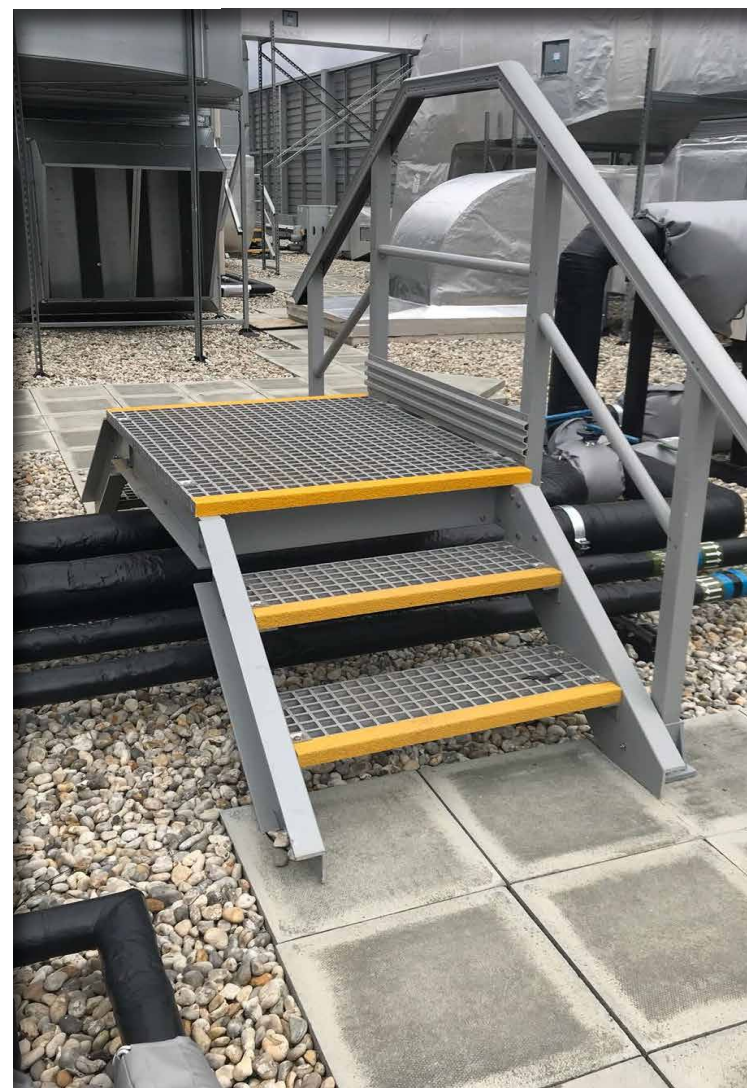
Whether staff need to navigate across a single pipe, a boundary wall or a network of cables, a Step Over will ensure that they stay safe while preventing the pipes, walls or cables from getting kicked, stepped on and damaged. Built to suit each site, a Step Over can be made any height, width or length and is usually supplied ready-made. GRP is less than half the weight of the steel equivalent, so most Step Overs can be placed manually – no heavy lifting equipment is required. It is also long-lasting and low-maintenance.

Typically constructed using QuartzGrip Standard Mesh Grating and stairs with a SafeRail ergonomic handrail, they can be made to your own specifications.

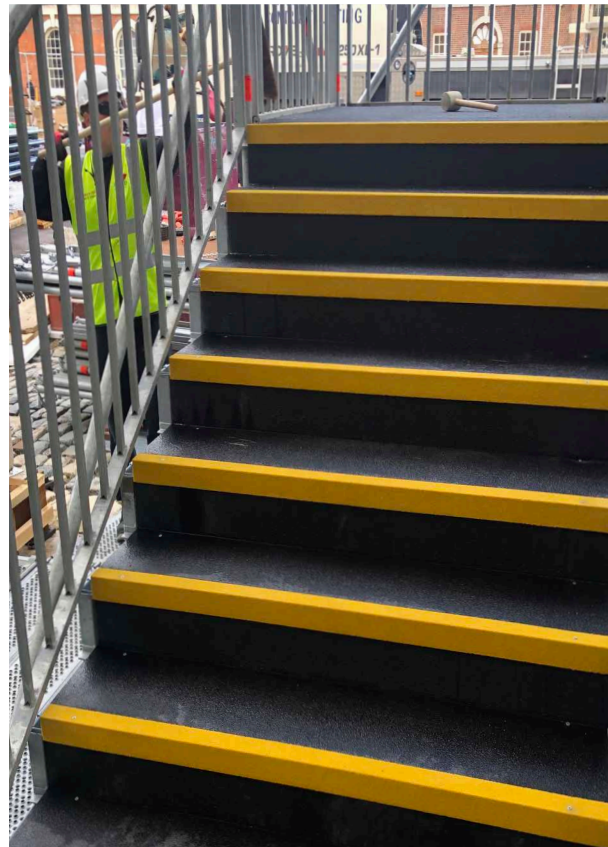
Access Stairs

Whether you need one or two steps to a doorway or platform or a multi-storey staircase to reach a roof-top or mezzanine floor, Vital GRP's staircases offer an anti-slip, low-maintenance and low-noise solution. Ideal for replacing slippery metal or rotten wooden steps, the fibreglass treads, handrailing and structural profiles are non-corrosive and UV stable; they'll never go rusty, they'll never fade and they'll never need painting.

Each staircase is designed to meet your specific requirements ensuring all health & safety guidelines are adhered to. It's then built at our in-house workshop before being shipped in sections to your site for quick and easy installation – by us or by your own teams.



Stair Treatments



If your existing steps are structurally sound but becoming worn or slippery, adding Stair Tread Covers or Stair Nosing offers a quick and economical solution and instantly reduces the risk of slips and falls.

We can install them for you or pre-cut and pre-drill for DIY.

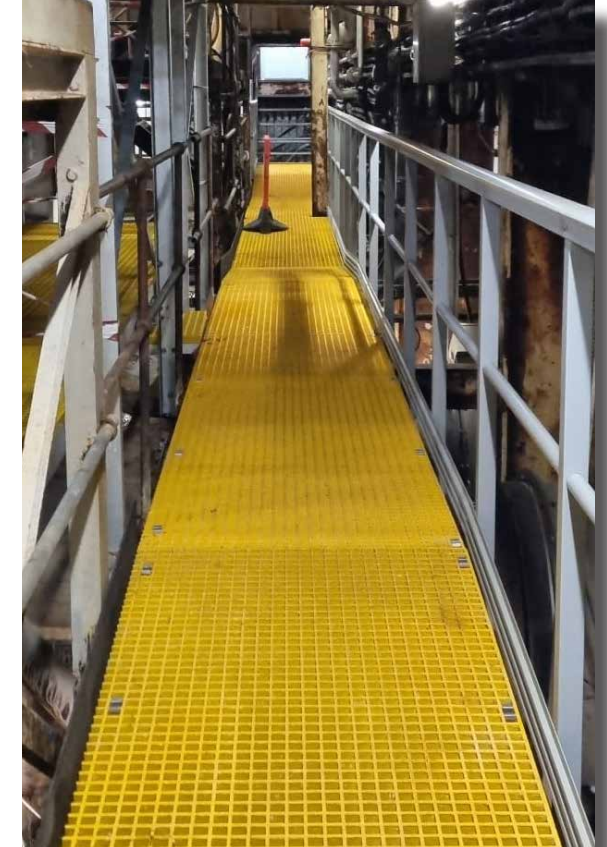
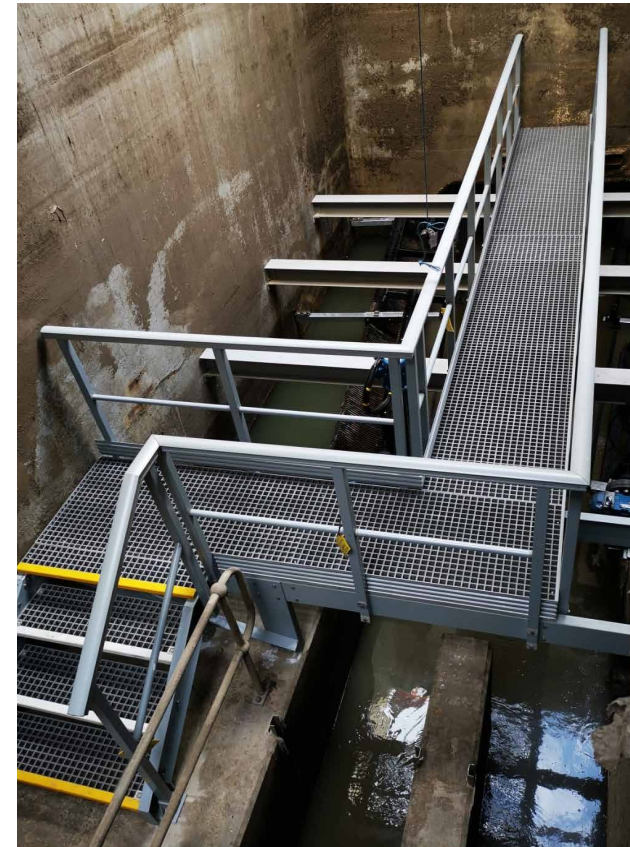
Trench Covers



For pedestrian or vehicular access, our Open Mesh and Solid Top GRP Panels provide a tough, slip-resistant surface, ensuring a trip-free solution while protecting what's beneath.

It is lightweight and easy to install, ideal for man-hole covers or access panels, have interlocking panels that can be sealed for a watertight finish, suitable for replacing existing covers.

Permanent Walkways & Gantries



Sometimes the only way to get from A to B is to go up and over rather than around. To clear multiple or extended obstacles such as cables, HVAC equipment, sloping roofs or storage tanks, a Gantry or raised Walkway offers the perfect solution. It can be made as long as required, can go around corners, have as many entry points as needed and is strong enough to safely support people and equipment. Vital GRP's Gantries are constructed using 38mm QuartzGrip anti-slip GRP Grating supported by GRP structural profiles. Staircases or Ladders can be added at each end or at mid-points providing access with self-closing safety gates and safety hoops where required. Handrails come complete with kick plates to prevent items being dropped over the edge.

GRP Material Characteristics

Slip-Resistant QuartzGrip moulded fibreglass grating has an integral, angular quartz gritted surface tested in accordance with BS 7976-2. It provides an exceptional level of slip-resistance in all directions. Lifespan depends on frequency of use.

Chemical Resistant GRP is resistant to a wide range of chemicals, across a wide temperature spectrum. It can also be made using different resin systems to achieve specific chemical resistance properties.

Fire Resistant All products contain a fire resistant additive and comply with Euro Class 1 and ISO 11925-2. Performance is equivalent to ASTM E84 Class A and BS 476 part 7 Class 2 flame spread to give a 30 minute burn time.

Non-Conductive GRP has zero metal content so is non-conductive.

Economical In most cases, GRP equivalents to steel components are much cheaper to buy. Add to that the reduction in handling and maintenance costs and GRP is the smart choice.

Quality Assured Manufactured in accordance with our ISO 9001 accredited Quality Management System, the structural integrity of the material is high grade. A suggested lifespan of 25 years can be expected based on a number of variables: environmental, installation process, maintenance, loading and traffic conditions.

Self-coloured All QuartzGrip moulded fibreglass grating and GRP Profiles are pigmented throughout during manufacture and do not require any secondary treatments such as powder coating or paint spraying.

Lightweight & Durable Weighing a fraction of the steel equivalents, GRP is lightweight in comparison and can be manoeuvred into place without mechanical assistance. It is exceptionally durable and has the ability to withstand impact, reducing the risk of permanent buckling or deformation.

UV Stable All products are manufactured with a high quality UV inhibitor to prevent colour degradation.

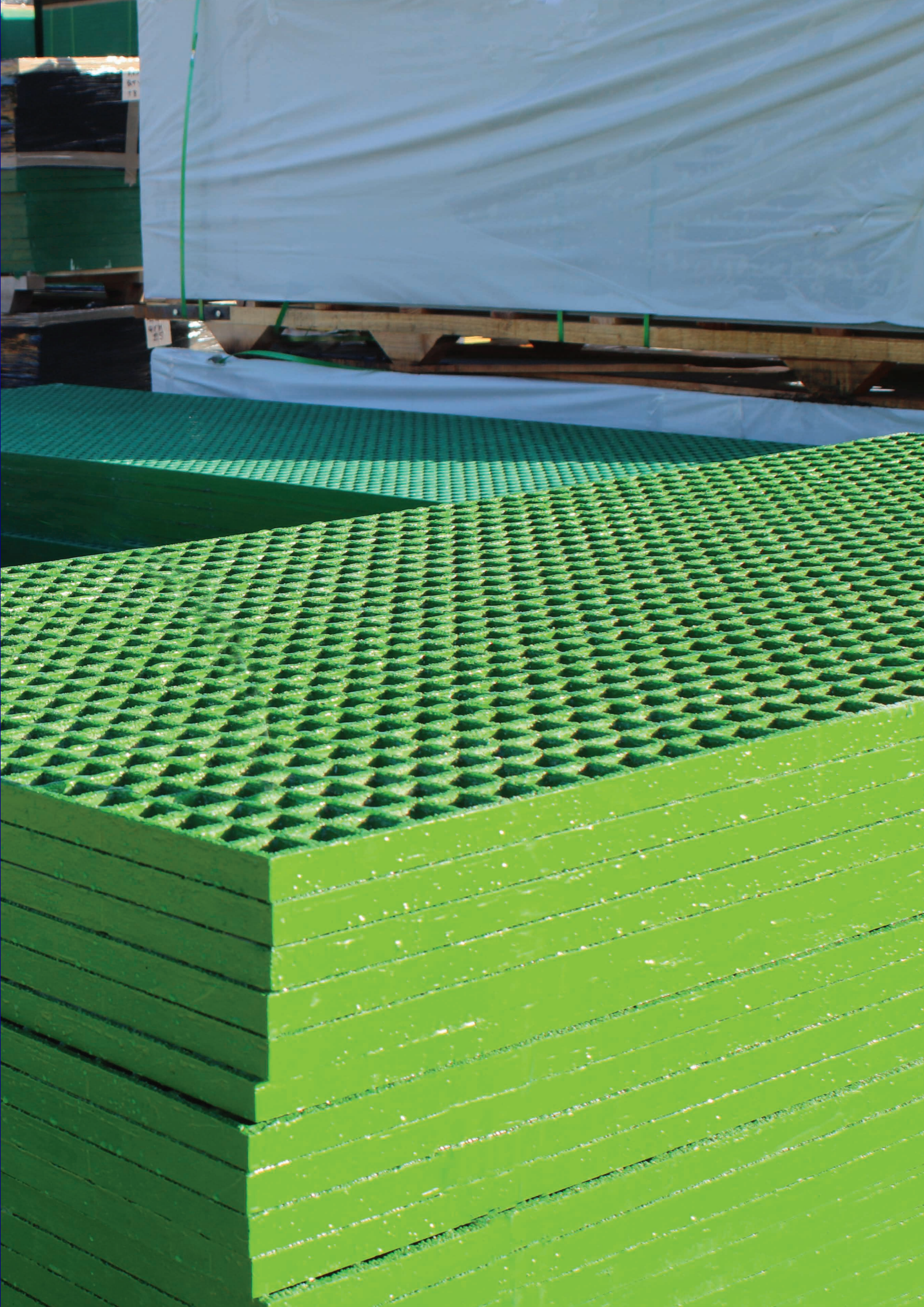
GRP Product Range

Our products are held in stock at our warehouse, which means we can get the supplies you need to you as quickly as possible.

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Contact Details

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GRP Standard Mesh Grating

QuartzGrip GRP Open Mesh Grating helps prevent slips, trips, and falls in hazardous industrial, commercial and public areas. QuartzGrip fibreglass provides greater corrosion resistance than galvanised steel products and lower costs than stainless steel products.

Functions of QuartzGrip GRP Open Mesh Grating

QuartzGrip Fibreglass Open Mesh Floor Grating is suitable for use in commercial and industrial environments, including walkways, platforms, wash bays, work stations, drains, gullies, stairs, ramps and pontoon decking.

GRP Standard Mesh Grating can also be used for sump-covers, pit, pond and well covers as well as service riser covers and machine guards.

We also offer Mini Mesh Grating, ideal for Access Bridges, Berthing Stations, Marinas and Tidal Brows.

Quality Guaranteed

All QuartzGrip Fibreglass Open Mesh Gratings are manufactured to ISO 9001 quality standards, with a high glass content for superior load-bearing capabilities and corrosion resistance.

Our QuartzGrip GRP Open Mesh Grating can be cut to any size and is finished as standard with a durable and hard-wearing angular quartz grit that provides an excellent level of slip resistance in wet, oily and icy conditions. Alternatively, if you require a smooth surface, concave, or conductive carbon-gritted surface, this can be supplied upon request.

EDGING RAMPS

- Mesh bar centres 38 x 38mm • Open hole size 32 x 32mm
- Orthophthalic resin • Standard grit finish

PRODUCT CODE	THICKNESS	DIMENSIONS	COLOUR
RE-25-20-01-YE-G	25mm	2000 x 120mm	Yellow
RE-38-20-01-YE-G	38mm	2000 x 120mm	Yellow

All our panels are available from stock and, if required, can be cut to size before despatch. Bespoke RAL colours available - minimum order quantities apply.

Why QuartzGrip GRP Open Mesh Grating?

Vital GRP’s moulded QuartzGrip® GRP Open Mesh Grating is a superior anti-slip alternative to conventional galvanised and stainless steel grating.

QuartzGrip GRP Open Mesh Grating is:

- Corrosion-resistant
- Maintenance-free
- High-strength and durable
- Lightweight and easy to install
- Anti-slip, even in wet or icy conditions
- Long-lasting
- Fire-resistant

All our panels are available from stock and, if required, can be cut to size before despatch. Bespoke RAL colours available - minimum order quantities apply.

To discuss your requirements, please call 01206 396 446

STANDARD OPEN MESH GRATING

- Mesh bar centres 38 x 38mm • Open hole size 32 x 32mm • Isophthalic resin • Standard grit finish

PRODUCT CODE	THICKNESS	DIMENSIONS	COLOUR
SM-25-20-10-GN-G	25mm	1987 x 997mm	Green
SM-25-20-10-GY-G	25mm	1987 x 997mm	Grey
SM-25-20-10-YE-G	25mm	1987 x 997mm	Yellow
SM-25-30-10-GN-G	25mm	3010 x 997mm	Green
SM-25-30-10-GY-G	25mm	3010 x 997mm	Grey
SM-25-30-10-YE-G	25mm	3010 x 997mm	Yellow
SM-25-36-12-GN-G	25mm	3660 x 1220mm	Green
SM-25-36-12-GY-G	25mm	3660 x 1220mm	Grey
SM-25-36-12-YE-G	25mm	3660 x 1220mm	Yellow
SM-38-20-10-GN-G	38mm	1987 x 997mm	Green
SM-38-20-10-GY-G	38mm	1987 x 997mm	Grey
SM-38-20-10-YE-G	38mm	1987 x 997mm	Yellow
SM-38-30-10-GY-G	38mm	3010 x 997mm	Grey
SM-38-30-10-YE-G	38mm	3010 x 997mm	Yellow
SM-38-36-12-GN-G	38mm	3660 x 1220mm	Green
SM-38-36-12-GY-G	38mm	3660 x 1220mm	Grey
SM-38-36-12-YE-G	38mm	3660 x 1220mm	Yellow
SM-50-20-10-GN-G	50mm	1990 x 1024mm	Green
SM-50-20-10-GY-G	50mm	1990 x 1024mm	Grey
SM-50-30-10-GN-G	50mm	3012 x 997mm	Green
SM-50-30-10-GY-G	50mm	3012 x 997mm	Grey
SM-50-30-10-YE-G	50mm	3012 x 997mm	Yellow
SM-50-36-12-GN	50mm	3660 x 1220mm	Green
SM-50-36-12-GY	50mm	3660 x 1220mm	Grey
SM-50-36-12-YE	50mm	3660 x 1220mm	Yellow

OPEN MESH GRATING STAIR TREADS

- Mesh bar centres 38 x 38mm • Open hole size 32 x 32mm • 55mm DDA Nosing • Isophthalic resin
- Standard grit finish

PRODUCT CODE	THICKNESS	DIMENSIONS	COLOUR
TRD-38-10-272-G	38mm	1000 x 272mm	Black/Black&Yellow/Green/Grey/Grey&Yellow/Yellow

GRP Mini Mesh Grating

QuartzGrip GRP Mini Mesh Grating is a modern alternative to conventional timber, steel or plastic flooring, providing an anti-slip surface underfoot that helps prevent slips, trips and falls in naturally hazardous areas.

GRP Mini Mesh Applications

QuartzGrip GRP Mini Mesh has been successfully installed in station, depot and trackside environments, including: Access gantries, Station ramps, Trench covers, Access stairs, Step Overs, Debris screens

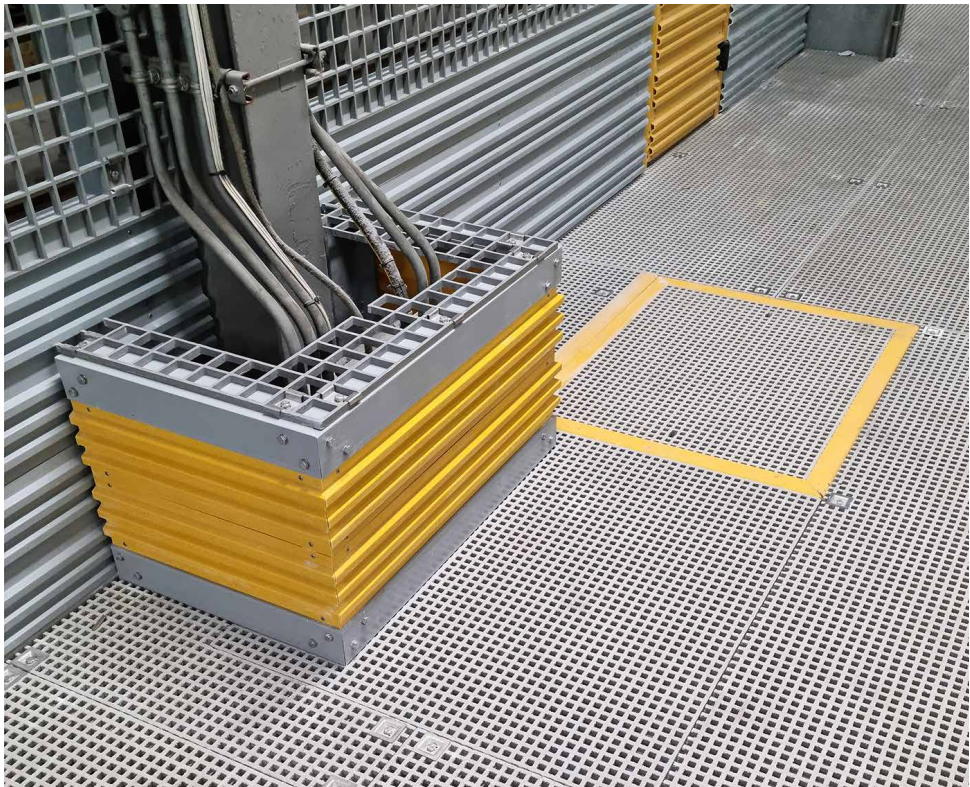
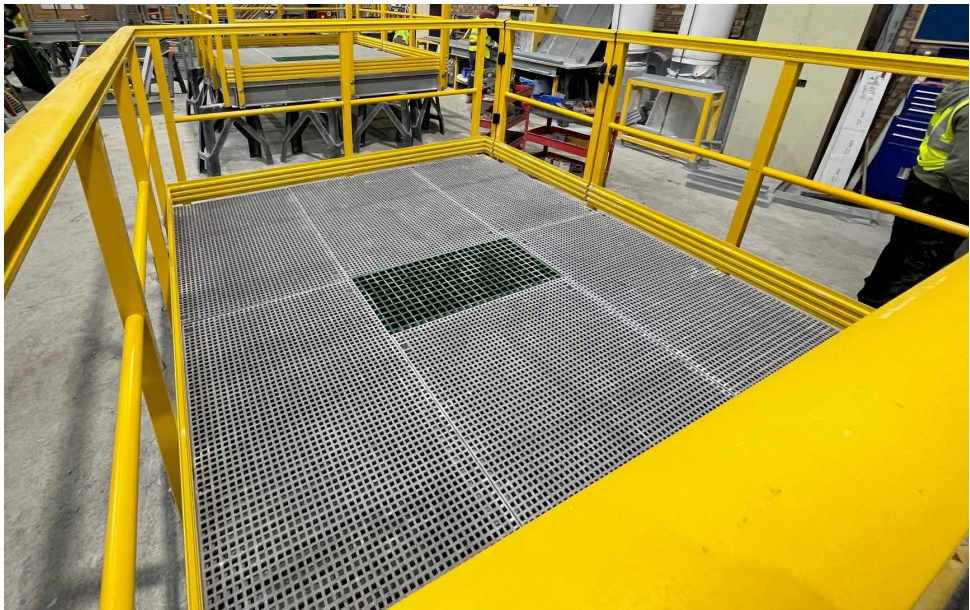
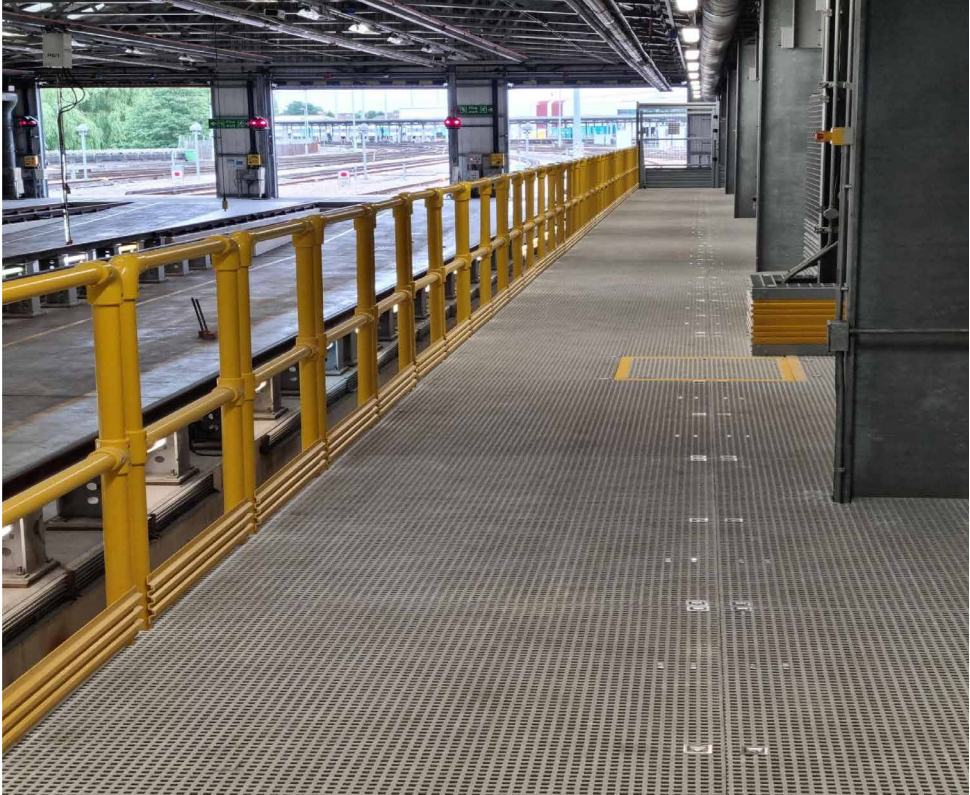
Anti-Slip Mini Mesh Grating

The integral gritted non-slip surface of our QuartzGrip Mini Mesh has been tested in accordance with BS 7976-2 (Coefficient of Friction Test). It provides exceptional traction on walkways exposed to the elements and is also algae and moss-resistant.

MINI MESH GRATING

• Mesh bar centres 20 x 20mm • Openhole size 12 x 12mm • Orthophthalic resin • Standard grit finish

PRODUCT CODE	THICKNESS	DIMENSIONS	COLOUR
MM-14-30-10-BE-G	14mm	3007 x 1007mm	Beige
MM-14-30-10-BK-G	14mm	3007 x 1007mm	Black
MM-14-36-12-BE-G	14mm	3647 x 1247mm	Beige
MM-14-36-12-BK-G	14mm	3647 x 1247mm	Black
MM-14-36-12-GN-G	14mm	3647 x 1247mm	Green
MM-14-36-12-YE-G	14mm	3647 x 1247mm	Yellow
MM-22-30-10-BE-G	22mm	3007 x 1007mm	Beige
MM-22-30-10-GN-G	22mm	3007 x 1007mm	Green
MM-22-30-10-GY-G	22mm	3007 x 1007mm	Grey
MM-22-40-12-BE-G	22mm	4047 x 1247mm	Beige
MM-22-40-12-GN-G	22mm	4047 x 1247mm	Green
MM-22-40-12-GY-G	22mm	4047 x 1247mm	Grey
MM-22-40-15-BE-G	22mm	4047 x 1527mm	Beige
MM-22-40-15-GY-G	22mm	4047 x 1527mm	Grey
MM-30-30-10-BE-G	30mm	3007 x 1007mm	Beige
MM-30-30-10-GN-G	30mm	3007 x 1007mm	Green
MM-30-30-10-GY-G	30mm	3007 x 1007mm	Grey
MM-30-40-12-BE-G	30mm	4047 x 1247mm	Beige
MM-30-40-12-GN-G	30mm	4047 x 1247mm	Green
MM-30-40-12-GY-G	30mm	4047 x 1247mm	Grey
MM-38-30-12-BE-G	38mm	3007 x 1247mm	Beige
MM-38-30-12-GN-G	38mm	3007 x 1247mm	Green
MM-38-30-12-GY-G	38mm	3007 x 1247mm	Grey
MM-38-40-12-YE-G	38mm	4047 x 1247mm	Yellow



Benefits of GRP Mini Mesh Grating

With greater corrosion resistance than galvanised steel products and lower costs than stainless steel, Mini Mesh Grating is both long-lasting and cost-effective.

QuartzGrip GRP Mini Mesh Grating is:

- Anti-slip, even when icy or wet
- Simple to install
- Lightweight
- Maintenance-free
- Corrosion-resistant
- High-strength
- Impact-resistant
- Fire-resistant

Solid Top Mesh Grating

QuartzGrip Solid Top Flooring

Suitable for a variety of industrial applications. The solid surface allows smoother movement of wheeled traffic, prevents objects falling through to the level below, and when used as a cover or lid, provides odour retention for storage tanks etc.

Lightweight panels can also be supplied as manhole covers or access hatches, complete with lifting slots, stainless steel hinges or handles which can be manufactured to suit 1 or 2 man material handling limits.

SOLID TOP MESH GRATING

- Solid top, mesh bottom • Isophthalic resin • Standard grit finish
- Fire-resistant

PRODUCT CODE	THICK-NESS	DIMENSIONS	COLOUR
ST-29-20-10-GN-G	29mm	2007 x 1007mm	Green
ST-29-20-10-GY-G	29mm	2007 x 1007mm	Grey
ST-29-30-10-GN-G	29mm	3007 x 1007mm	Green
ST-29-30-10-GY-G	29mm	3007 x 1007mm	Grey
ST-29-36-12-GN-G	29mm	3660 x 1220mm	Green
ST-29-36-12-GY-G	29mm	3660 x 1220mm	Grey
ST-42-20-10-GY-G	42mm	2007 x 1007mm	Grey
ST-42-30-10-GY-G	42mm	3007 x 1007mm	Grey
ST-42-36-12-GY-G	42mm	3660 x 1220mm	Grey
ST-54-30-10-GY-G	54mm	3007 x 1007mm	Grey
ST-54-36-12-GY-G	54mm	3660 x 1220mm	Grey

SANDWICH PANELS

- Solid top, solid bottom • Isophthalic resin • Standard grit finish
- Fire-resistant

PRODUCT CODE	THICK-NESS	DIMENSIONS	COLOUR
SW-18-24-12-BK	18mm	2440 x 1220mm	Black
SW-18-24-12-GY			Grey
SW-46-20-10-GY-G	46mm	2007 x 1007mm	Grey
SW-46-30-10-GY-G	46mm	3007 x 1007mm	Grey



Interlocking Solid Top Mesh Grating

Advanced Pultruded Structural Panels are fast becoming the cost effective solution for heavy-duty environments that require a solid finish.

A range of highly engineered Pultruded Panels are available to suit a variety of commercial, industrial, marine and rail applications and can be manufactured to suit BS 124 specifications (Class B125 and C250 vehicular ratings)

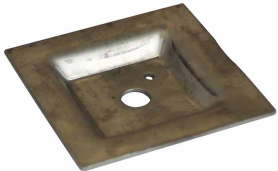
Why choose SafeSlab?

- Extra strong - suitable for vehicular access
- Can be used with a neoprene gasket to create a water-resistant covering
- Panels are designed to interlock providing an almost seamless finish
- Gritted anti-slip finish
- Solid top and bottom - one side with the anti-slip finish

PRODUCT CODE	THICKNESS	DIMENSIONS	COLOUR
PST-50-36-50-GY-G	50mm	3660 x 500mm	Grey - Top Grit
PST-50-36-45-GY-G	50mm	3660 x 500mm	Grey - Bottom Grit



Mesh Grating Fixings

PRODUCT CODE	PANEL TYPE	THICKNESS	MESH BAR CENTRES
M-CLIPS • Grade 316/A4 • Designed to secure open mesh grating to GRP Profile 			
FX-MC-SM-25-A4-SF	Standard Mesh	25mm	38 x 38mm
FX-MC-SM-38-A4-SF	Standard Mesh	38mm	38 x 38mm
FX-MC-SM-50-A4-SF	Standard Mesh	50mm	50 x 50mm
FX-MC-MM-14-A4-SF	Mini Mesh	14-22mm	20 x 20mm
FX-MC-MM-38-A4-SF	Mini Mesh	30-38mm	20 x 20mm
JOINING BARS • Grade 316/A4 • Join two panels edge to edge 			
FX-CB-SI-A4-SF	All Panels	Single	-
FX-CB-DB-A4-SF	All Panels	Double	-
SQUARE CLIPS • Grade 316/A4 • Secure Standard Mesh Panels to solid surfaces 			
FX-LC-SM-25-A4-SF	Standard Mesh	25mm	38 x 38mm
FX-LC-SM-38-A4-SF	Standard Mesh	38mm	38 x 38mm
FX-LC-SM-50-A4-SF	Standard Mesh	50mm	50 x 50mm
G-CLAMPS • Grade 316/A4 • Secure two mesh panels side-by-side • Supplied with hex bolt 			
FX-GC-SM-25-A4-SF	Standard Mesh	25mm	38 x 38mm
FX-GC-SM-38-A4-SF	Standard Mesh	38mm	38 x 38mm
FX-GC-SM-50-A4-SF	Standard Mesh	50mm	38 x 38mm
FX-GC-MM-22-A4-SF	Mini Mesh	22mm	20 x 20mm
FX-GC-MM-30-A4-SF	Mini Mesh	30mm	20 x 20mm
FX-GC-MM-38-A4-SF	Mini Mesh	38mm	20 x 20mm

We only use 316/A4 quality stainless steel nuts, bolts, clips, clamps and washers. They are guaranteed for 10 years and can be replaced if they start to show signs of corrosion.

DOME WASHER • Grade 316/A4 • Use with bolts • For use with Solid Top Panels and Flat Plate 			
FX-DW-45-08-A4-SF	Standard/Mini/Solid	40mm	20/38mm
FX-DW-30-06-A4-SF	Mini Mesh/Solid	30mm	20/38mm
J-CLAMPS • Grade 316/A4 • Clamp panels securely to profiles that can't be drilled 			
FX-JC-SM-38-A4-SF	Standard/Mini/Solid	22-38mm	20/38mm
FX-JC-SM-50-A4-SF	Standard/Solid	50mm	50 x 50mm



GRP Structural Profiles

Our GRP Profiles come in a variety of forms, including Angle, Tube, Box, C-Section, I-Beam and H-beam sections. Their strength and mechanical properties match or exceed traditional steel equivalent.

All our Pultruded Profiles are manufactured from glass-reinforced polyester resin (fibre-glass) and include a continuous strand mat and a polyester surface veil on the exterior.

This combination provides exceptional corrosion resistance and weather resistance, which makes our profiles low-maintenance and incredibly durable.

Our GRP profiles with a wall thickness of more than 5mm are high-performance (E23 grade), while those at 3-5mm are E17 grade.

Pultruded Profiles are supplied directly from stock in 6m lengths as standard. Profile can be cut to your required size for a small additional fee. Please let us know when you order.



CHANNEL



TUBE



ANGLE



I-BEAM

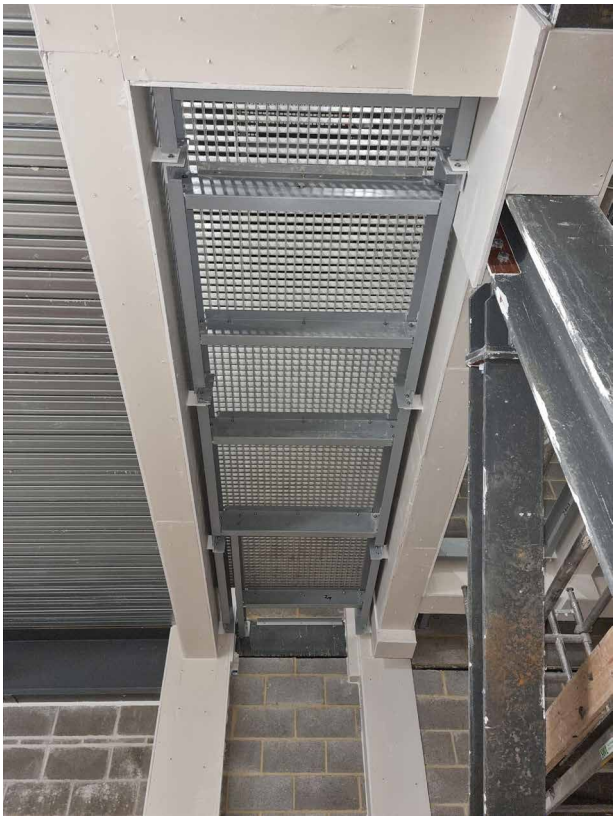


BOX

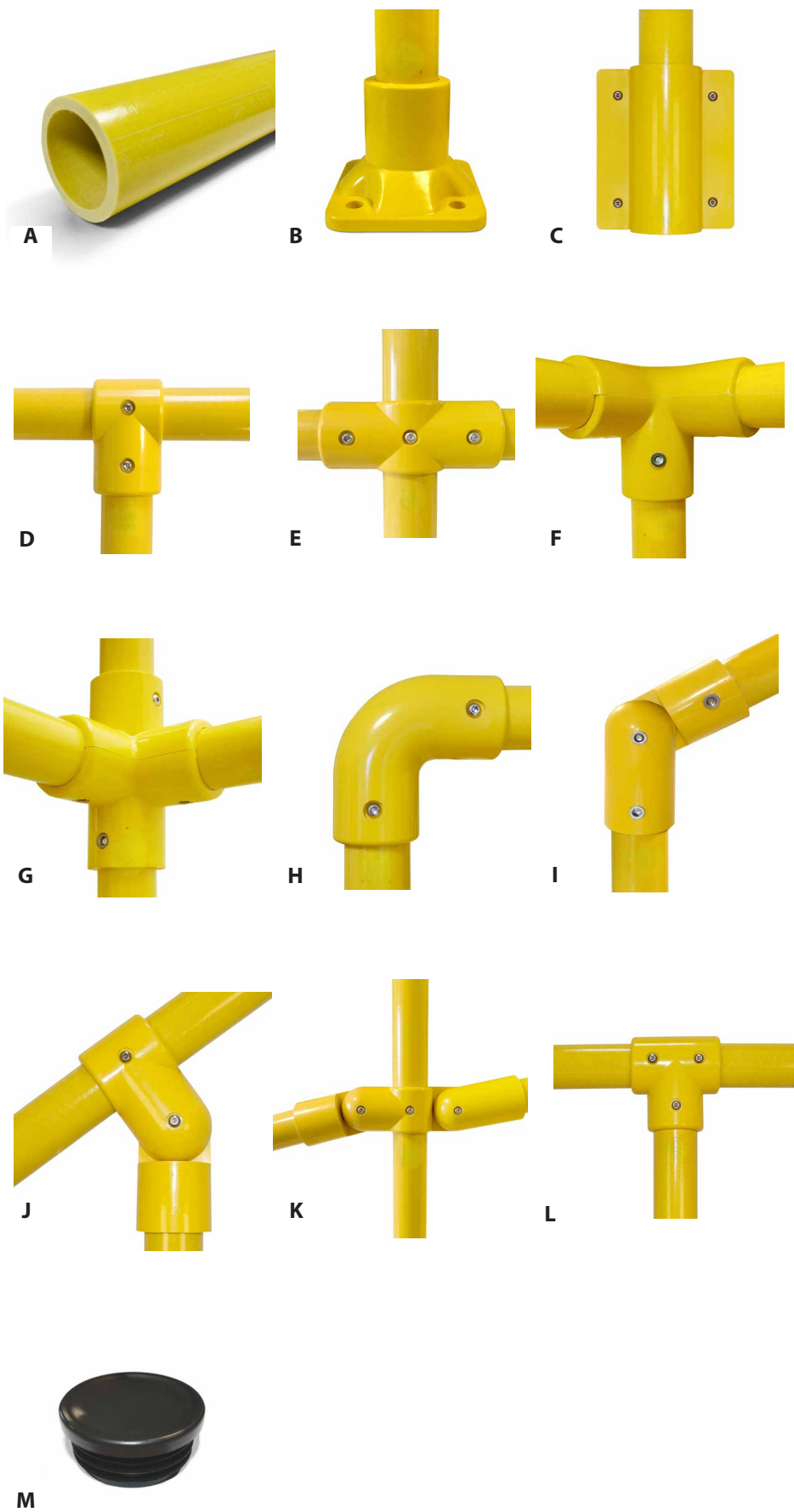


I-BEAM

PRODUCT CODE	PROFILE TYPE	DIMENSIONS	COLOUR
PR-AN-50-40-06-GY-3M	Angle	50 x 40 x 6mm	Grey
PR-AN-50-50-06-GY	Angle	50 x 50 x 6mm	Grey
PR-AN-75-75-10-GY	Angle	75 x 75 x 10mm	Grey
PR-AN-100-100-08-GY	Angle	100 x 100 x 8mm	Grey
PR-BX-51-51-06-GY	Box	51 x 51 x 6mm	Grey
PR-BX-51-51-06-YE	Box	51 x 51 x 6mm	Yellow
PR-BX-76-76-06-GY	Box	76 x 76 x 6.35mm	Grey
PR-CH-100-40-05-GY	Channel	100 x 40 x 5mm	Grey
PR-CH-150-50-05-GY	Channel	150 x 50 x 6mm	Grey
PR-CH-200-60-09-GY	Channel	200 x 60 x 8mm	Grey
PR-IB-200-100-09-GY	I-Beam	200 x 100 x 9.5mm	Grey
PR-IB-200-200-10-GY	I-Beam	200 x 200 x 10mm	Grey



Key-Clamp Handrail



SafeClamp GRP Handrails are a modern composite alternative to conventional galvanised key-clamp style handrail systems, offering complete flexibility.

The SafeClamp GRP Handrailing System is based on a 50mm diameter pultruded tube - 5mm thick for real strength and toughness - and joined together by a range of specifically designed GRP moulded fittings to create the complete handrail system.

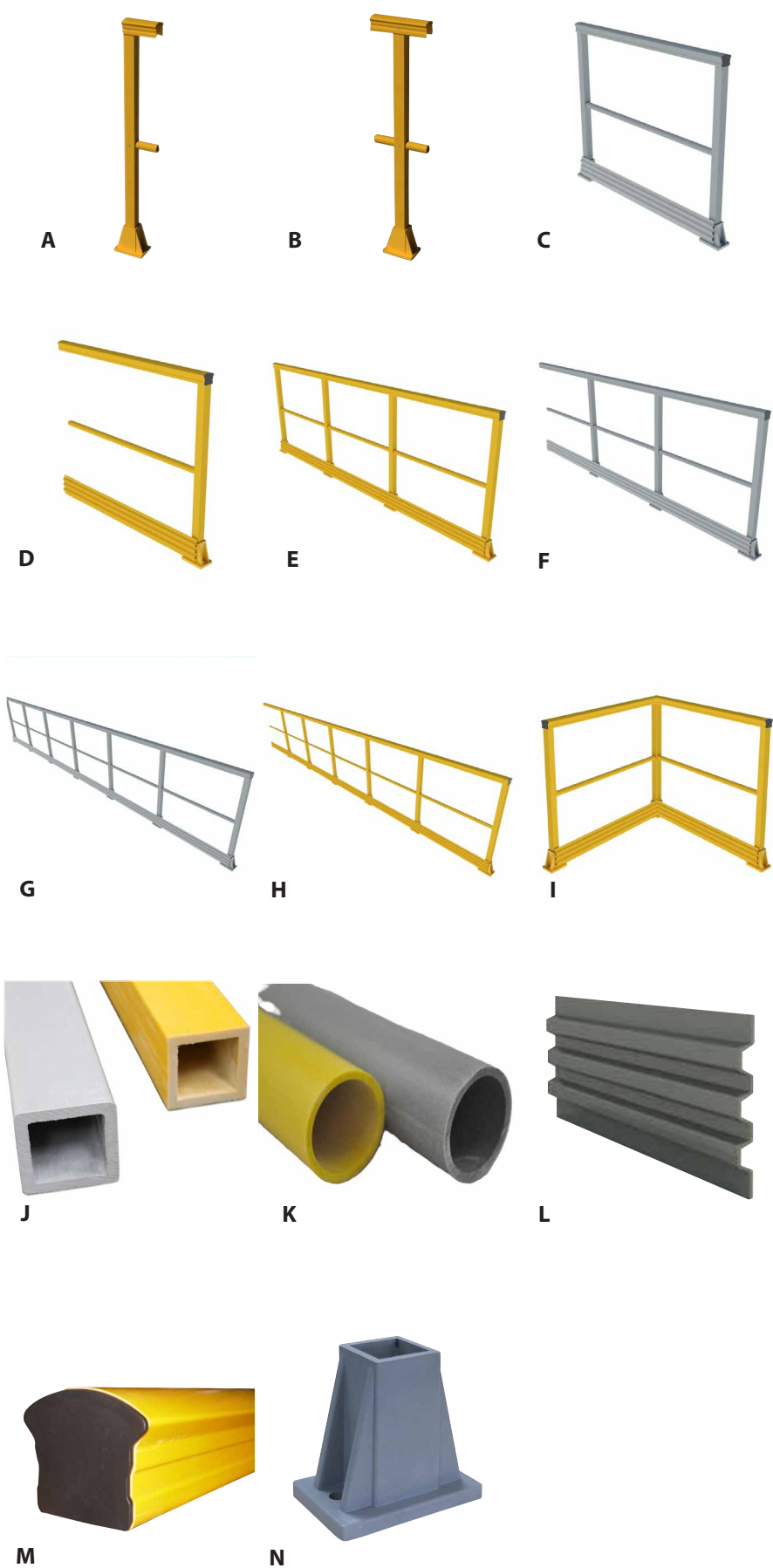
Why Choose SafeClamp GRP Handrails?

- Lightweight - easily transported to hard to access locations
- Tough and strong - well suited to the aggressive service conditions of commercial and industrial environments
- Flexible - excellent weatherability and resistance to most industrial chemicals, GRP Handrails are extremely low-maintenance
- Warning yellow - pigmented throughout, ensuring any surface scratches are less visible
- Warm to touch - the low thermal conductivity of GRP makes it ideal for use in public areas, especially ramps and other areas designed for disabled access



PROUCT CODE	COMPONENT		COLOUR
SC-RT-50-50-06-YE	A	6000mm Handrail Tube	Yellow
SC-PB-FT-YE	B	Base Foot	Yellow
SC-BK-SM-GY	C	Side Mount	Yellow
SC-CN-3W-90-YE	D	3-Way Connector	Yellow
SC-CN-4W-90-YE	E	4-Way Connector	Yellow
SC-CR-3W-90-YE	F	3-Way Corner Connector	Yellow
SC-CR-4W-90-YE	G	4-Way Corner Connector	Yellow
SC-EB-2W-90-YE	H	90 degrees Elbow Connector	Yellow
SC-UJ-2W-YE	I	Universal Connector	Yellow
SC-UJ-3W-YE	J	Universal 3-Way Connector	Yellow
SC-UJ-4W-YE	K	Universal 4-way Connector	Yellow
SC-LT-3W-90-YE	L	3-Way Long Connector	Yellow
SC-RT-EC-50-BK	M	Tube End Cap	Black

Modular Handrail



SafeRail GRP Modular Handrail is available in a range of standard, 1100mm tall, pre-fabricated sections that can be assembled quickly onsite. We can also create bespoke sections or supply the components directly to you to build your own.

Why Choose SafeRail GRP Handrail?

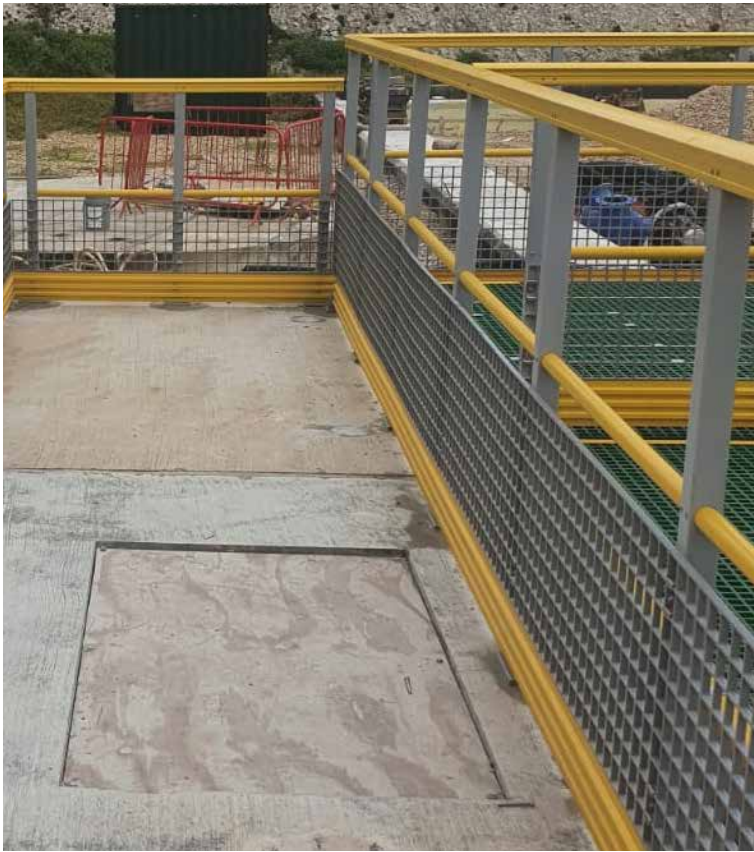
Instant solution - pre-fabricated sections can be installed quickly for a less disruptive solution - ideal for platforms

Tough and strong - well suited to the aggressive service conditions of commercial and industrial environments

Mesh option - adding mesh infill panels deters queue-hopping and prevents debris from drifting too far

Choice of colours - highlight danger zones with yellow or simply control pedestrian movement with the smart grey

Warm to the touch - the low thermal conductivity of GRP makes it ideal for use in public areas



PRE-FABRICATED SECTIONS		LENGTH	COLOUR
A	Start Stop Post	-	Grey/Yellow
B	Intermediate Post	-	Grey/Yellow
C	Complete Section	1200mm	Grey/Yellow
D	Add-On F-Section	1200mm	Grey/Yellow
E	Complete Section	3000mm	Grey/Yellow
F	Add-On F-Section	3000mm	Grey/Yellow
G	Complete Section	6000mm	Grey/Yellow
H	Add-On Section	6000mm	Grey/Yellow
I	90 degrees Corner Section	1200mm	Grey/Yellow

PRODUCT CODE	COMPONENTS		LENGTH	COLOUR
PR-BX-51-51-06-GY	J	50mm Stanchion Post Box Profile	6000mm	Grey
PR-BX-51-51-06-YE				Yellow
PR-RT-38-03-GY	K	38mm Mid Rail Tube Profile	6000mm	Grey
PR-RT-38-03-YE				Yellow
PR-KP-150-15-03-GY	L	150mm Kick Plate Profile	6000mm	Grey
PR-KP-150-15-03-YE				Yellow
PR-HR-TR-GY	M	Top Rail Profile	6000mm	Grey
PR-HR-TR-YE				Yellow
PB-FT-50-GY	N	Base Box Foot	-	Grey
PB-FT-50-YE			-	Yellow
FA-RVT-4.0-20-BL-A2		Blind Rivets	-	Silver

GRP Cable Ladder System

Our GRP Cable Management Systems are part of a large range which includes covers, corners and risers.

Create safe, secure, continuous trunking by joining sections together with our range of GRP Cable Ladder Splice Connectors

- Join lengths of Cable Ladder together without compromising the load capacity
- Pre-drilled for quick and easy installation
- Stocked in a range of angles to create smooth vertical or horizontal corners
- Sold in pairs, pre-drilled for quick and easy assembly



WIDTH	LENGTH	SWL (3m)	WEIGHT
150mm	3000mm	402 kg/m	14.6 kg
300mm	3000mm	402 kg/m	15.7 kg
450mm	3000mm	402 kg/m	16.6 kg
600mm	3000mm	402 kg/m	17.9 kg
750mm	3000mm	402 kg/m	18.7 kg
900mm	3000mm	402 kg/m	19.8 kg

Our heavy duty Safeline Cable Ladder System offers effective cable management.

For effective heavy duty cable management, our GRP Cable Ladders are 150mm deep and available in a range of sizes. For smaller projects see our Cable Tray System.

- Standard widths range from 150-900 mm
- Suitable for use with high voltage cable cleats and tubing clamps
- Flexible rung attachment allows additional rungs to be installed (ask for details)
- Ladder siderail has unique off centre side C-profile for increased load capacity
- No risk of liquid entrapment
- GRP will not rot or corrode and requires zero maintenance
- Rung widths and rung spacing can be customized to project requirements on application
- Pre-drilled, full height splice connectors can handle the same loadings as the ladder system itself
- Roll edges for easy handling, reduced cable snagging and aids stability to reduce rung movement

For more information please get in touch.

GRP Cable Tray System

Keep cables tidy on site ensuring easy access and maintenance in the future.

Our SafeLine Cable Tray system keeps cables and wiring tidy and safe from accidental damage indoors and out. Create continuous weather- and rodent-proof trunking on walls, floors, roof-tops or ceilings.

Our corrosion resistant GRP Cable Trays are lighter than metal equivalents while maintaining strength and maximising loading capability. They are also low-maintenance and easier to install

- Perforated tray design prevents water or chemicals from pooling inside the tray, reducing the risk of damage to the cables
- Lower weight and rounded edges makes tray easier to handle and reduces accidents on site
- Unique I-beam profile design increases load capacity and reduces deflection
- Made from non-conductive pultruded Glass Reinforced Plastic.
- Pre-drilled, full height splice connectors can handle the same loadings as the tray system itself
- Wide range of tray widths available – for a larger capacity system please see our GRP Cable Ladders
- Supplied in 3000mm lengths



WIDTH	LENGTH	SWL (3m)	WEIGHT
50mm	3000mm	59 kg/m	3.9 kg
100mm	3000mm	59 kg/m	5.3 kg
150mm	3000mm	59 kg/m	6.1 kg
200mm	3000mm	59 kg/m	7.0 kg
300mm	3000mm	59 kg/m	9.2 kg
400mm	3000mm	59 kg/m	13.6 kg
600ml	3000mm	59 kg/m	19.2 kg

GRP Security/debris Screen

Screen Guard

Protect tracks and walkways from litter and leaves gathering to create a potential fire hazard. Smooth finish makes it ideal for use in fencing as it won't snag on pedestrian clothing.

Machine Guarding is made from smooth GRP. The mesh hole size is 50.8mm x 50.8mm and is specifically manufactured to provide the ideal safety barrier that is non-conductive, corrosion-resistant and low-maintenance. This product is durable, strong and made from premium grade materials.

SafeScreen Applications

- Handrail infill panels
- Debris screens
- Machine guard
- Trough covers

PRODUCT CODE	THICKNESS	DIMENSIONS	COLOUR
SG-12-36-12-GY	12mm	3660 x 1220mm	Grey
SG-12-36-12-YE			Yellow



GRP Anti-Slip Flooring

Anti-Slip Flate Plate

QuartzGrip Anti-Slip GRP Flooring Sheets are a great solution to safeguarding employee and public safety by reducing slips, trips and falls in hazardous environments in constant use.

Benefits of Anti-Slip Flooring Sheets

Designed specifically to create grip underfoot, this effective gritted surface performs well in wet, icy or greasy conditions, transforming walkways and maintaining a steady grip. The surface meets BS 7976-2 for slip-resistance. Flooring sheets are a great option if you have worn or uneven flooring where slips are more likely to occur.

PRODUCT CODE	DIMENSIONS	COLOUR
FP-04-20-10-BE-G	2000 x 1000mm	Beige
FP-04-20-10-BK-G		Black
FP-04-20-10-GY-G		Grey
FP-04-20-10-YE-G		Yellow
FP-04-24-12-BE-G	2440 x 1220mm	Beige
FP-04-24-12-BK-G		Black
FP-04-24-12-GY-G		Grey
FP-04-24-12-YE-G		Yellow
FP-04-30-12-BK-G	3000 x 1220mm	Black
FP-04-30-12-YE		Yellow

Tactile Flooring Tiles

Tactile flooring is designed to warn visually impaired pedestrians when approaching a change in floor level or hazardous areas such as railway platforms, pedestrian crossings and stairs.

Types of Tactile Flooring

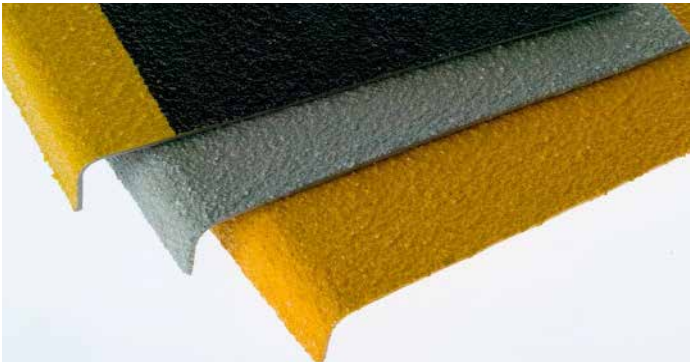
- **In-line Blister Tactiles** provide warnings in the absence of a curb less than 25mm high. The surface is an essential safety feature as its terrain differentiates where a footway ends and where the carriageway begins. The tiles also allow wheel-chair users to cross roads with ease.
- **Off-Set Blister Tactiles** have flat-topped domes set in even rows, for use on platform edges, parallel to the direction of travel to the train. The surface can be any colour (apart from red) to provide a contrast to assist partially sighted people.
- **Corduroy Tactiles** warn of the approach of specific hazards including steps, level crossings, or the approach of streetlight rapid transit (LRT) platforms.



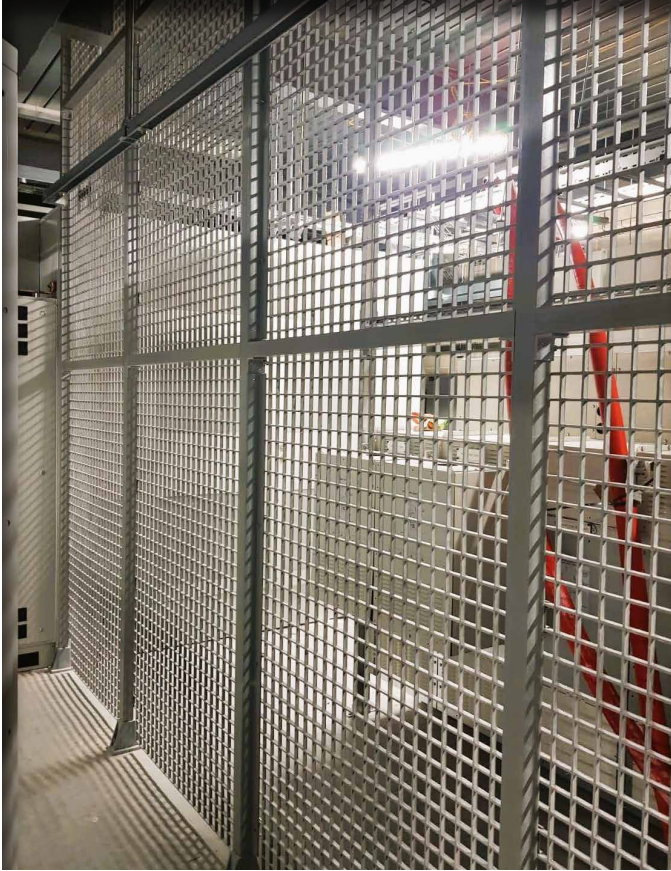
PRODUCT CODE	DIMENSIONS	PATTERN
TO-04-04-04-BE-G	400 x 400mm	Off-Set Blister
TI-04-04-04-BE-G	400 x 400mm	In-Line Blister
TC-04-04-04-BE-G	400 x 400mm	Corduroy

GRP Anti-Slip Stair Tread Covers

QuartzGrip GRP Stair Tread Covers are designed to cover the entire stair tread and provide a firmer grip underfoot, complying with Equalities Act Guidelines. Our Anti-Slip Stair Treads work well in wet, icy or oily conditions and can transform tired looking staircases whilst minimising the risk of slips, trips and falls. QuartzGrip is manufactured from premium grade slip-resistant fibreglass to maximise quality, durability and lifespan, and can be cut to any size.



PRODUCT CODE	DIMENSIONS	COLOUR
Made to order	1000 x 345mm	Black & White/Black & Yellow/Beige/Grey/Yellow
	1216 x 345mm	Black & White/Black & Yellow/Beige/Grey/Yellow
TC-04-30-03	3000 x 345mm	Black & White/Black & Yellow/Beige/Grey/Yellow
TC-04-36-03	3660 x 345mm	Black & White/Black & Yellow/Beige/Grey/Yellow



QuartzGrip GRP Anti-Slip Stair Nosing is the ideal product if you are looking for an affordable solution to minimise the risk of slips, trips and falls.

All our Anti-Slip Stair Nosings are manufactured from premium fibreglass to ensure durability and quality, with a textured finish to provide greater resistance underfoot in poor weather conditions.

Why QuartzGrip GRP Anti-Slip Stair Nosing?

Vital GRP's QuartzGrip GRP Anti-Slip Stair Nosing is a brilliant solution for safeguarding industrial, commercial and public spaces.

- Easy to fit
- Cost-effective
- Durable, with a long lifespan
- Equalities Act compliant
- Maintenance-free
- Anti-slip in oily or wet conditions

Our QuartzGrip GRP Anti-Slip Stair Nosing is manufactured from premium grade, slip-resistant fibreglass to maximise quality, durability and lifespan, plus it can easily be cut to any size and pre-drilled for faster installation. Not only does stair nosing add an extra anti-slip surface, but it also highlights the attention to the edge of a stair, which can often be missed in low lighting, particularly outdoors or in a poorly lit stairwell.

Easy to Install

Our QuartzGrip GRP Anti-Slip Stair Nosing is easy to install. Simply glue and screw your stair nosing to timber, concrete, chequer plate steps or stairs

GRP Anti-Slip Stair nosing



STANDARD GRIT FINISH

PRODUCT CODE	DIMENSIONS	COLOUR
Made to Order	600 x 55 x 55mm	Black/White/Yellow
	1000 x 55 x 55mm	Black/White/Yellow
	1200 x 55 x 55mm	Black/White/Yellow
	600 x 70 x 55mm	Beige/Black/Grey/White/Yellow
	1000 x 70 x 55mm	Beige/Black/Grey/White/Yellow
	1200 x 70 x 55mm	Beige/Black/Grey/White/Yellow
SN-04-30-05-BK	3000 x 55 x 55mm	Black
SN-04-30-05-WH		White
SN-04-30-05-YE		Yellow
SN-04-30-07-BE	3000 x 70 x 55mm	Beige
SN-04-30-07-BK		Black
SN-04-30-07-GY		Grey
SN-04-30-07-WH		White
SN-04-30-07-YE		Yellow
SN-04-36-55-WH	3600 x 55 x 55mm	White
SN-04-36-55-YE-G		Yellow
SN-04-36-07-BE	3600 x 70 x 55mm	Beige
SN-04-36-07-BK		Black
SN-04-36-70-GY		Grey
SN-04-36-07-WH		White
SN-04-36-07-YE		Yellow

Technical Specifications and Datasheets

All our mesh is independently tested to British standard in a UK facility. With a full suite of state-of-the-art analytical capabilities, from chemical and physical to high temperature and surface analysis, they have been able to provide us with all the information you need to be confident our products meet your specifications.

GRP Mesh Mechanical Data

- Elastic Modulus 27 GPa
- Flexural Strength 2.8 GPa
- Tensile Strength 650 MPa
- Compressive Strength 90 MPa
- Dielectric Strength 18 KW/mm
- Specific Gravity 1.5 ÷ 1.7
- Thermal Expansion Factor 13 x 10-6 mm/mm °C
- Water Absorption 0.1% + 0.3% x 24 hours (ISO R62)
- Operating Temperature -100°C to +180°C

Manufacturing Tolerances

- Standard Panel Size = +2mm, -0mm
- Cut Panel Size = ±3mm
- Thickness = ±1mm
- Mesh Pattern = ±0.5mm

STANDARD MESH LOAD & DEFLECTION DATA

Unsupported Span (unfixed) over 1000mm width (kg)									
Thickness	Weight kg/m²	Span	300	500	600	750	1000	1200	1500
25mm	12	Point Load	2390	855	590	375	205	135	80
		UDL	3830	1375	950	605	335	225	135
30mm	14.2	Point Load	3795	1360	940	595	330	220	135
		UDL	6075	2180	1510	960	535	365	225
38mm	19	Point Load	8220	2950	2045	1300	725	495	305
		UDL	13155	4730	3280	2090	1165	800	500
50mm	21.7	Point Load	16445	5910	4100	2615	1460	1005	630
		UDL	26315	9465	6565	4195	2350	1620	1025

STANDARD MESH PHYSICAL DATA

Grating Depth (mm)	Grating Pitch (mm)	Bar Thickness		Per 300mm of Width				No. of bars per 300mm	% Glass Content	Weight (kg/m²)	% Open Area
		Top	Bottom	cm²	cm³	cm⁴	El kg/m²				
25	38	6.5	5.5	11.5	4.91	6.24	119	8	32	12	69
30	38	6.5	5.5	13.3	6.6	9.9		8	32	14.2	69
38	38	6.5	5.5	17.6	10.64	21.38	275	8	32	18.2	69
50	50.8	7.9	6.4	20.1	16.8	42.8		6	32	21.7	71

MINI MESH LOAD & DEFLECTION DATA

Unsupported Span (unfixed) over 1000mm width (kg)									
Thickness	Weight kg/m²	Span	300	500	600	750	1000	1200	1500
14mm	10	Point Load	650	230	155	95	50	30	10
		UDL	1025	365	250	155	80	50	25
22mm	16	Point Load	2885	1030	715	450	245	165	95
		UDL	5945	2135	1480	960	520	355	215
30mm	18.8	Point Load	6710	2410	1670	1060	585	400	245
		UDL	10740	3860	2675	1705	950	650	405
38mm	23.1	Point Load	11825	4245	2945	1875	1045	715	445
		UDL	18920	6805	4720	3010	1685	1160	725

MINI MESH PHYSICAL DATA

Grating Depth (mm)	Grating Pitch (mm)	Bar Thickness		Per 300mm of Width				No. of bars per 300mm	% Glass Content	Weight (kg/m²)	% Open Area
		Top	Bottom	cm²	cm³	cm⁴	El kg/m²				
14	20	7	5					15	32.3		42
22	20	7	5	14.8	4.2	5.5	78.1	15	32.3	16	42
38	20	7	5	21.2	14.7	30.8	448	15	32.3	25.5	42

SOLID TOP LOAD & DEFLECTION DATA

Unsupported Span (unfixed) over 1000mm width (kg)									
Thickness	Weight kg/m²	Span	300	500	600	750	1000	1200	1500
29mm	18	Point Load	8425	3025	2095	1335	740	505	315
		UDL	13485	4850	3360	2145	1195	825	515
42mm	24	Point Load	22975	8260	5730	3660	2045	1410	890
		UDL	36765	13225	9180	5865	3590	2275	1440
54mm	28	Point Load	33745	12140	8420	5380	3015	2080	1315
		UDL	53995	19430	13485	8620	4835	3345	2125

SOLID TOP PHYSICAL DATA

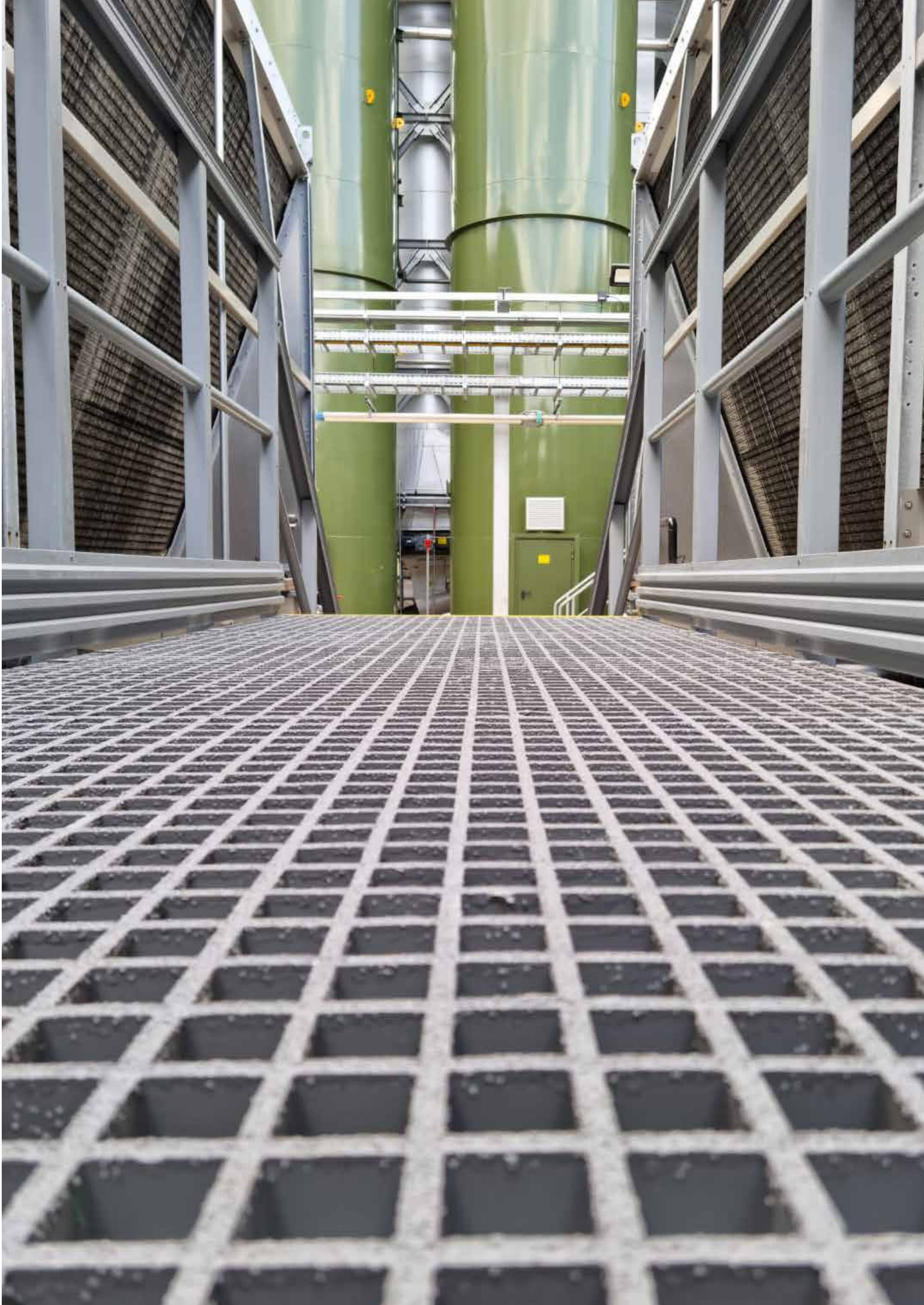
Grating Depth (mm)	Grating Pitch (mm)	Bar Thickness		Per 300mm of Width				No. of bars per 300mm	% Glass Content	Weight (kg/m²)	% Open Area
		Top	Bottom	cm²	cm³	cm⁴	El kg/m²				
29	38.1	6.5	5	23.7	15.1	22	615	8	32	18.5	0
42	38.1	6.64	5.02	29.8	28.5	60	1857	8	32	25.3	0
54	50.8	7.9	6.4	20.1	16.8	42.8		6	32	34	0

General Material Properties

MECHANICAL DATA	ASTM Test	Units	Polyester
Tensile Strength (LW)	D638	psi	33000
Tensile Strength (CW)	D638	psi	7500
Tensile Modulus (LW)	D638	10 ⁶ psi	2.5
Tensile modulus (CW)	D638	10 ⁶ psi	0.8
Compressive Strength (LW)	D695	psi	33000
Compressive Strength (CW)	D695	psi	16500
Compressive Modulus (LW)	D695	10 ⁶ psi	3.0
Compressive Modulus (CW)	D695	10 ⁶ psi	1.0
Flexural Strength (LW)	D790	psi	33000
flexural Strength (CW)	D790	psi	11000
Flexural Modulus (LW)	D790	10 ⁶ psi	1.6
Flexural Modulus (CW)	D790	10 ⁶ psi	0.8
Modulus of Elasticity	Full Section ²	10 ⁶ psi	2.8-3.2
(Channels)	Full Section ²	10 ⁶ psi	2.8
(Square and Rectangular Tubes)	Full Section ²	10 ⁶ psi	3.2
Shear Modulus	Full Section ²	10 ⁶ psi	0.42
Interlaminar Shear (LW) ³	D2344	psi	4,500
Shear Strength By Punch (PF)	D732	psi	5,500
Notched Izod Impact (LW)	D256	ft-lbs/in	28
Notched Izod Impact (CW)	D256	ft-lbs/in	4.0
Maximum Bearing Strength (LW)	D953	psi	30,000
Maximum Bearing Strength (CW)	D953	psi	18,000
Poisson's Ratio (LW)	D3039	in/in	0.35
Poisson's Ratio (CW)	D3039	in/in	0.15
In-plane Shear (LW)	Modified D2344 ⁴	psi	7,000

PHYSICAL DATA	ASTM Test	Units	Polyester
Barcol Hardness ¹	D2583		45
Water Absorption	D570	%Max	0.6
Density	D792	lbs/in ³	0.060-0.070
Specific Gravity	D792		1.66-1.93
Coefficient of Thermal Expansion (LW)	D696	10 ⁻⁶ in/in/°F	4.4
Thermal Conductivity (PF)	C177	BTU-in/ft ² /hr/°F	4.0

ELECTRICAL DATA	ASTM Test	Units	Polyester
Arc Resistance (LW)	D495	seconds	120
Dielectric Strength (LW)	D149	KV/in	40
Dielectric Strength (PF)	D149	volts/mil	200
Dielectric Constant (PF)	D150	@60Hz	5.2



COSHH SAFETY

MATERIAL IDENTIFICATION & USE

- Chemical name - Floor Grating, Flat Plate and Construction Profile made of Fibreglass Reinforced Polyester
- Common name - Glass Reinforced Plastic Grates. (Fibreglass Grating)
- Appearance - Solid, flat panels with grid pattern. Green, grey and yellow are standard colours. Sharp edges or grit applied to top surface. Nil odours. Not soluble in water. Specific Gravity 1.6
- Use - Floor, wall

CONSTITUENT PARTS

- Silicon Carbide Grit (Silica 1%)
- Fibrous Glass, Polyester Resin
- Catalyst (Peroxyester)
- Styrene
- Aluminium Oxide
- Pigments
- Ingredients are chemically cured and bonded together.

HAZARD IDENTIFICATION

- Acute effect - None by contact. Dust produced by cutting or grinding can penetrate the pores of the skin causing itching (Irritant). Avoid breathing dust (hazardous)
- Routes of entry - Skin contact or inhalation of dust when cutting
- Medical note - People who have a condition that could be aggravated by dust should avoid cutting or grinding

- First Aid Procedures - Skin - Remove person from dust area and shower with soap and water until itching stops. Seek medical advice
- First Aid Procedures - Eyes - Flush at once with a sterile eye wash solution for 15 minutes

FIRE FIGHTING MEASURES

- Product will burn. Avoid direct fire source
- Flash point: none
- Flammability limits: none
- Extinguishing media: water, foam, A, B or C fire extinguishers
- Heavy, black smoke, carbon particles. Use air respirator

WASTE DISPOSAL

- Handling - Abide by local laws and procedures. Product is not considered a hazardous waste

PERSONAL PROTECTION

- Use LEV systems or vacuum extraction with 'M' class filtration
- Use a face mask with FFP3 filter
- Eye protection to EN166-grade B standard
- Wear gloves for manual handling operations
- Wear overalls and cover exposed body parts
- Health Surveillance - It is recommended that Level 1 Health Surveillance is conducted/ completed annually

A BUSINESS YOU CAN TRUST

Accreditations

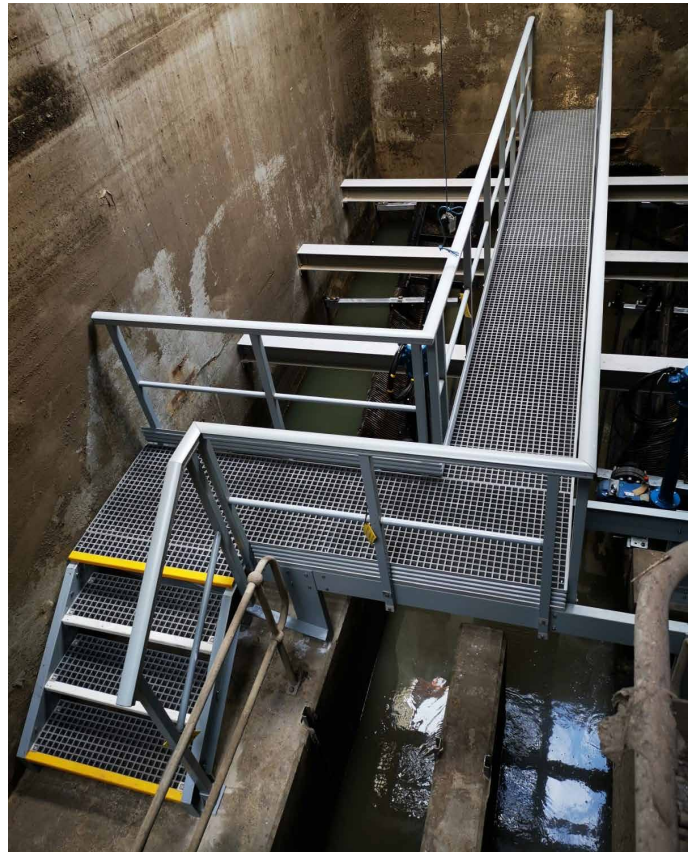


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