



## GRP Composite Manhole Covers & Underground Containment Systems

**RETAIL PETROLEUM**  
INDUSTRIAL  
TRENCH PANELS  
STEAM COVERS

shaping future standards





### Company introduction

Fibrelite is the world's leading manufacturer of high quality GRP composite manhole covers and watertight underground access and containment systems. Fibrelite sells to over 70 countries worldwide and was the very first company in the world to design and manufacture an easily removable composite manhole cover.

Fibrelite has, on average, developed a new cover design every year and now manufactures 25 different access covers both square and round. As trends have developed, round access covers are now the industry standard in many parts of the world with the most common sizes being 900mm or 1020mm diameter available in both 25 tonne and 40 tonne load ratings.

Fibrelite pioneered the first ever multiport composite cover, another industry first. Previously it was only possible to produce this type of load rated cover out of steel. This model has proved extremely successful in the US where secondary contained direct filling is common.

After 25 years the requirement for quality, watertight, corrosion resistant manhole covers that last the life time of a site, without replacement, is stronger than ever and the 20,000 covers that Fibrelite produces a year is testament to that.

From high performance GRP composite covers to watertight tank and dispenser sumps, Fibrelite manufactures fully conductive products that can deliver in the toughest conditions.



### Fibrelite's commitment to quality

Fibrelite's products are manufactured in the UK, US and Malaysia under the strictest control on raw material quality and manufacturing standards.

Fibrelite ensures that our products are regularly subjected to rigorous, independent testing to comply with stringent standards for safety, product performance, quality and reliability. In addition, the following quality accreditations also mean that the quality systems of the factory where Fibrelite products are made are systematically assessed.

- ✓ ISO9001:2008 accredited
- ✓ BSI Kitemark approved products
- ✓ Kiwa approved products
- ✓ EN 124 compliant

### Polished skid resistance value

Fibrelite's covers provide an excellent anti slip/skid surface which is guaranteed for the life cycle of the cover, with a Polished Skid Resistance Value of PSRV60> when wet, which exceeds the requirements of The Highways Agency (HA) 104/09, part 5, for potentially high risk sites.

### Resin transfer moulding (RTM) manufacturing

Fibrelite's products are manufactured in a closed mould environment combining long strand multi-directional fibreglass with a specifically formulated resin matrix to produce an extremely durable but lightweight product, approx. 1/3rd the weight of a steel or cast iron cover.

## GRP composite manhole covers

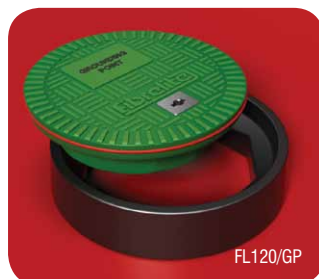
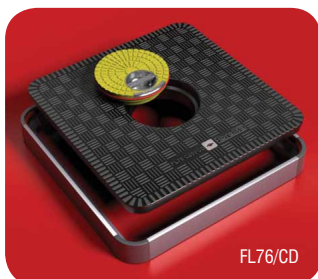
### Watertight flat sealed covers, multi-port covers and manual dip port covers



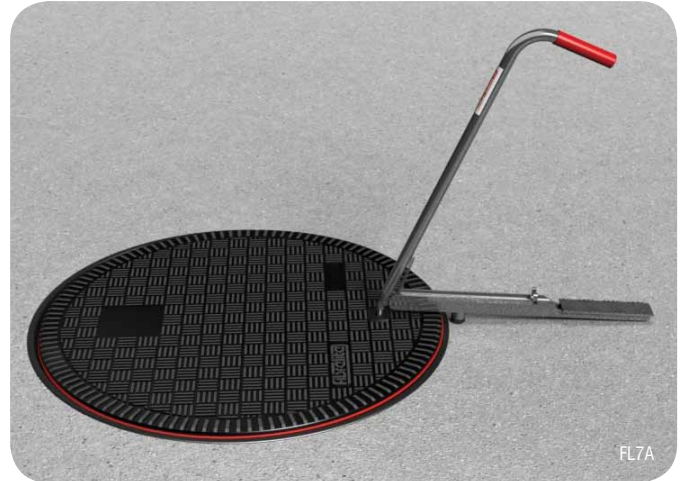
Fibrelite manufactures the largest range of glass reinforced plastic (GRP) composite manhole covers for the retail petroleum industry. The leading watertight, easy to remove, non-bolted cover on the market is available in a large selection of sizes and can be used for a wide range of applications. From tank sump access to fill sump applications, monitoring well and drawpit access, Fibrelite has it covered. All covers are lockable and available in C250 (25 tonne) and D400 (40 tonne) load ratings and are manufactured in accordance with EN 124: PAS 26.

#### Benefits

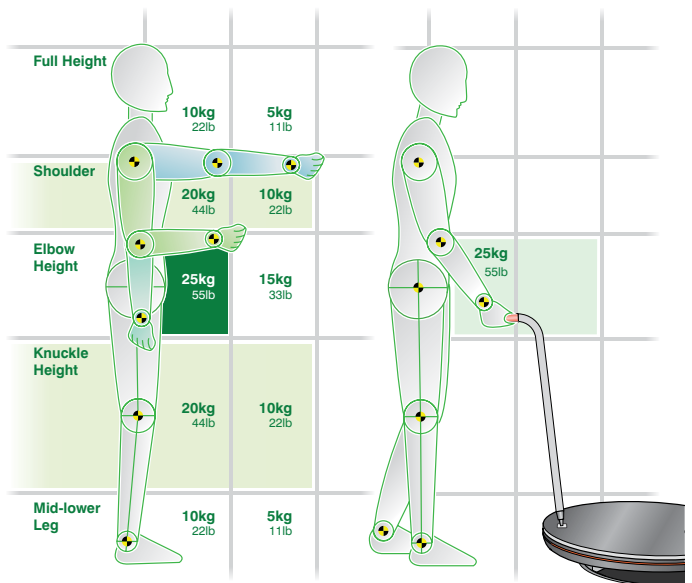
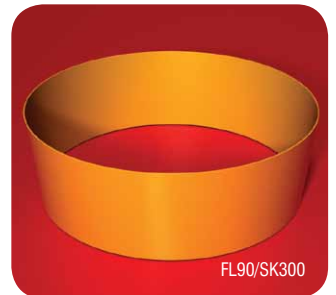
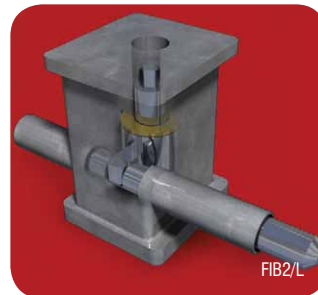
- Lightweight
- UV resistant
- Round, square and rectangular (wide range of sizes)
- Anti-slip surface
- Anti-static material
- Non-corrosive
- Watertight, sealed
- Non-bolted
- Ergonomic, single person removal and replacement with lifting handle
- Monolithic structure eliminates delaminating
- No permanent set
- Locks available
- Available in any RAL colour



### Accessories



Fibrelite offers a range of manhole cover accessories including lifting handles (ergonomically designed to facilitate easy and safe removal and replacement of the covers); security locks that can be fitted to cover or frame; GRP skirts that can be bonded to the frame to aid with installation; metal grid safety platforms and seal replacement kits. All seals in Fibrelite watertight covers and frames can be replaced if damaged.



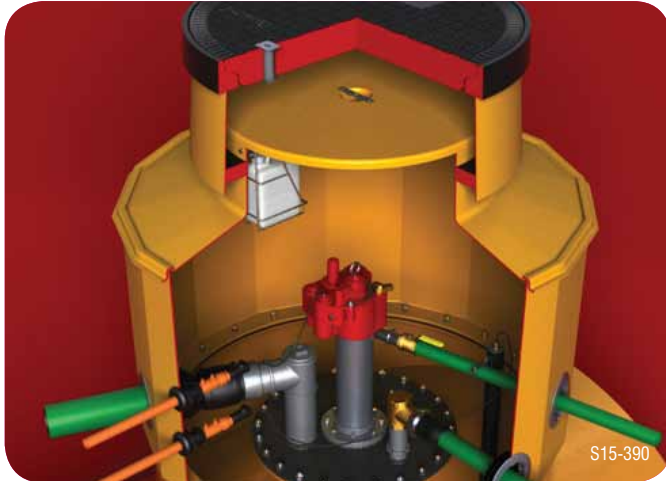
The Health and Safety Executive recommended load moving capabilities in relation to weight and position

The Ergonomic representation of the Fibrelite lifting method (FL90)



## Underground containment systems

### Tank sumps

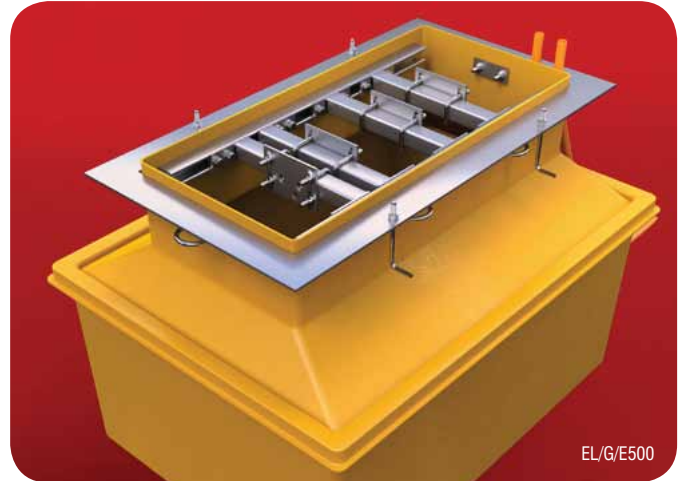


Manufactured using the latest in GRP technology, Fibrelite offers a range of sumps for any type of tank connection. They are all height adjustable allowing easy installation and eliminate any load transfer from the cover to the tank. Available round, square or rectangular, all sumps are supplied in multiple pieces creating the maximum space for installers to work.

#### Benefits

- Watertight – structure will not deform under water pressure
- Can be buried up to 3m deep
- Anti-static surface
- Vacuum testable during and post installation
- Available for both new and retro-fit applications
- Sump extensions maintain the space inside the sump enabling easy maintenance
- Guaranteed uniform wall thickness
- Compatible with biofuels

### Dispenser sumps



Manufactured using the same technology as our tank sumps, Fibrelite offers the largest range of dispenser sumps available. Each one is designed specifically for the dispenser make and model allowing easy installation and ensuring a watertight system. All dispenser sumps are supplied in two pieces creating the maximum space for installers to work.

#### Benefits

- Watertight – structure will not deform under water pressure
- Anti-static surface
- Vacuum testable during and post installation
- Dispenser make and model specific designs
- Guaranteed uniform wall thickness
- Supplied with all metalwork and hardware
- Two piece design permitting maximum working space for installation
- Compatible with biofuels

### Other containment systems

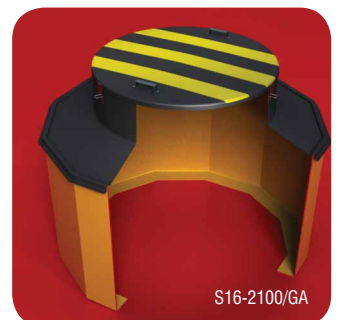
From fill sumps and transition sumps to monitoring wells, manual dip sumps, ATG's and electrical drawpits. Manufactured using the latest GRP technology, these containment systems are all vacuum testable and offer watertight solutions.

In order to reduce installation time on site, some of the Fibrelite range of containment systems can have pre-installed accessories. The below ground fill sumps can be supplied with pre-installed pipework according to the pipe specification and all grounding connections. The range of electrical drawpits can also have

factory fitted entry ducts if required. All systems are tested in-house prior to delivery ensuring piece of mind.

#### Benefits

- Watertight – structure will not deform under water pressure
- Anti-static surface
- Vacuum testable during and post installation
- Guaranteed uniform wall thickness
- Pre-installed accessories available
- Compatible with biofuels



## Underground containment systems

### Vacuum testing



Fibrelite pioneered containment sump testing over ten years ago and it has now become an industry standard. Using the Sherlock test module, a vacuum test is performed to check the structural integrity of the sump system and the integrity of the installation, from joints and bolt holes to manway lids, pipework connections and penetrations. A vacuum is pulled inside the sump and then the Sherlock module monitors that vacuum over a period of time, giving a pass or fail result. All containment systems can be vacuum tested during installation, or existing systems can be retro-tested to locate leaks.

#### Benefits

- Guarantees a watertight installation
- Testing can be carried out at different stages of installation
- Gives site owner piece of mind
- Leaking sumps can be retro-tested to find source



### Pipe and cable entry kits



Fibrelite's range of pipe and cable entry kits offer a unique design allowing a single hole installation. No additional screw holes need to be drilled. This provides the installer with a quick and easy installation and minimises potential leak paths through the sump wall. The pipe sleeves are made from a fuel resistant nitrile grade or viton rubber and the bellowed design facilitates movement with changing ground conditions.

#### Benefits

- Single hole installation
- Bellowed design allowing ground movement
- Internal fixings allowing easy maintenance
- Available in high grade nitrile or viton rubber
- Available in many sizes
- Available single or double sided for peace of mind
- Available for retractable pipework systems





### Our global sales and support network

Fibrelite has an established global network of distributors to ensure a local representative is available wherever required. Details of your nearest distributor can be found on our website or in the section below.

### Sales support

If you require one-to-one guidance on which products best suit your design requirements, please call our sales team who will be pleased to assist you further. Our switchboard will direct you to your local area support manager.

UK, Europe, Africa, Middle East & Asia Pacific  
Tel +44 (0)1756 799 773

North, South & Central America  
Tel + 1 800 422 2525

### Technical resources

Each product is fully supported with dimensional product drawings and installation instructions. To access this information please contact Fibrelite directly or log on to our website at [www.fibrelite.com](http://www.fibrelite.com)



### Environmental policy

Fibrelite is committed to manufacturing products and processes which are as environmentally friendly as possible. Also, due to the lightweight properties of GRP composite, the transport impact on the environment is significantly reduced. Fibrelite's 15 year guaranteed covers are often recycled to another site (life cycle cost benefits) and when a cover eventually reaches 'end of life', the cover can have the surface layer remoulded (resurfacing of a cover has a much smaller environmental impact than smelting of metal and also the retread process is less costly than a replacement).

#### Distributor contact details



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