



## GRP Composite Manhole Covers & Underground Containment Systems

- RETAIL FUELING
- INDUSTRIAL COVERS
- TRENCH COVERS
- STEAM COVERS

# FIBRELITE

We've got you covered

## 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 high quality, watertight composite manhole covers that last the lifetime of the site without the need for replacement continues growing. 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

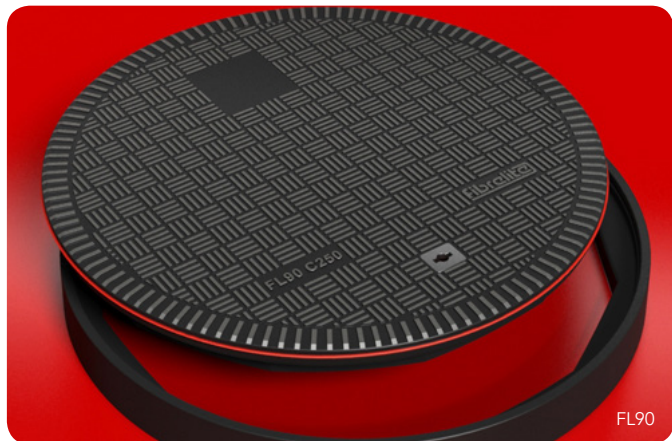
Fibrelite's covers provide an excellent anti slip/skid surface which is guaranteed for the life cycle of the cover, with a Polished Skid Resistance Value of PSRV>50 when in wet conditions, which meets the requirements of The Highways Agency (HA) 109/09, part 5.

## 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. Producing 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

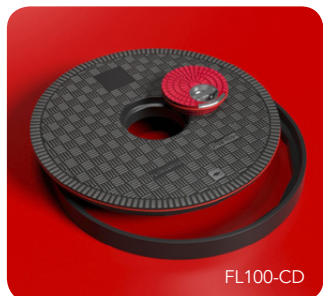


FL90

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



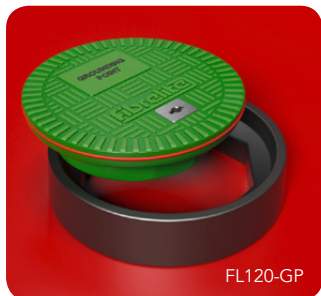
FL100-CD



FL140

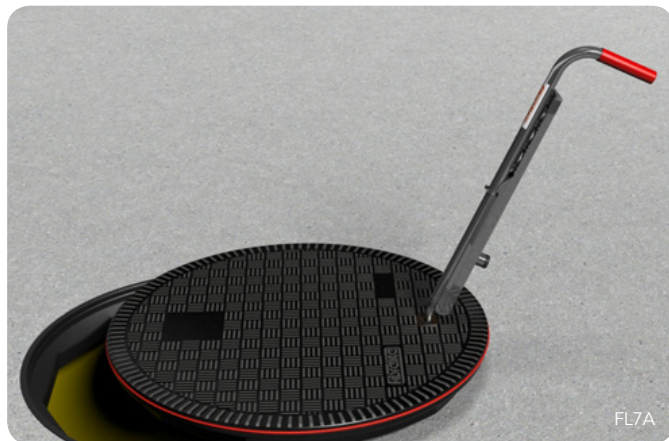


FL76-CD



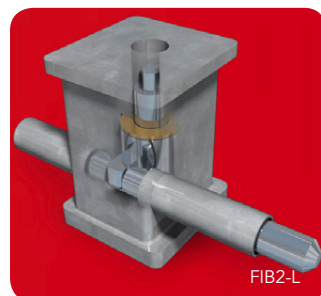
FL120-GP

### Accessories



FL7A

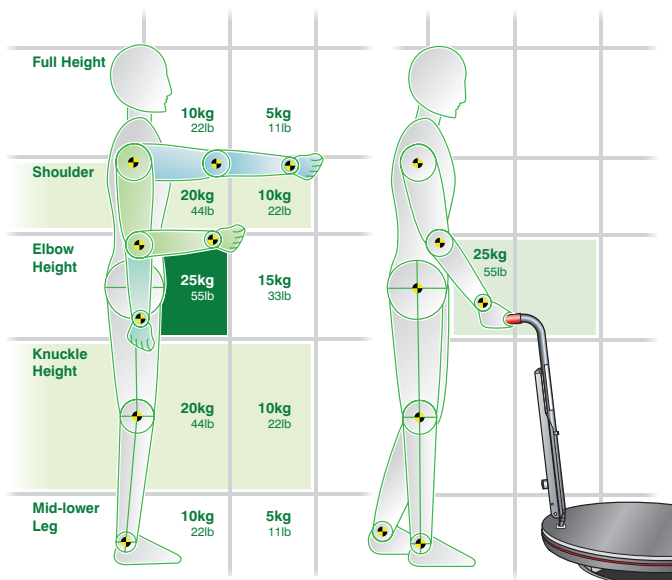
Fibrelite offers a range of manhole cover accessories including lifting handles (ergonomically designed to facilitate easy and safe removal and replacement of the covers); security locks that can be fitted to cover or frame; GRP skirts that can be bonded to the frame to aide with installation; metal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



FIB2-L



FL90-SK300

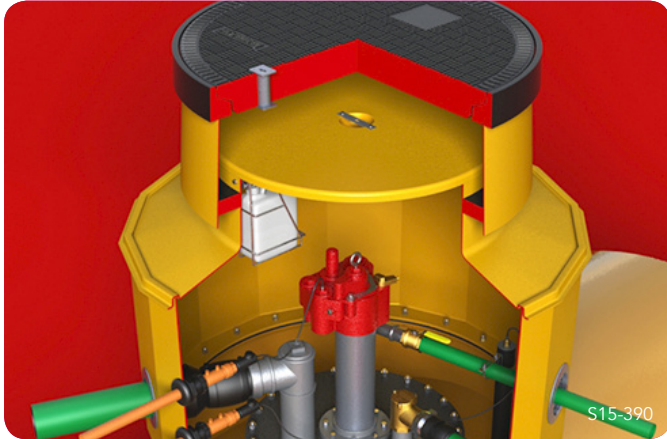


The Health and Safety Executive recommended load moving capabilities in relation to weight and position

The Ergonomic representation of the Fibrelite lifting method (FL90)

## Underground containment systems

### Tank sumps

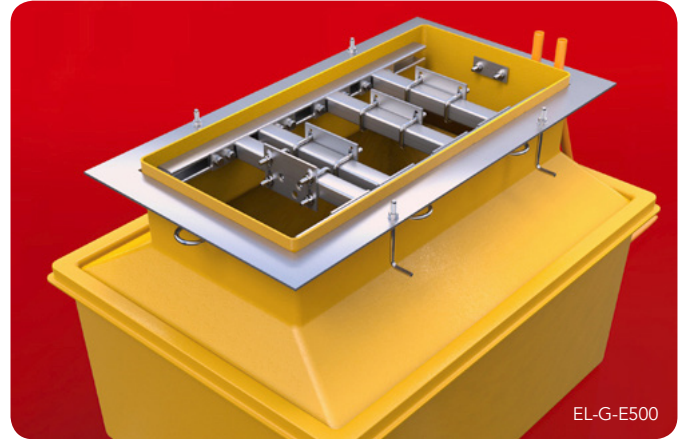


Manufactured using the latest in GRP technology, Fibrelite offers a range of sumps for any type of tank connection. They are all height adjustable allowing easy installation and eliminate any load transfer from the cover to the tank. Available round, square or rectangular, all sumps are supplied in multiple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

#### Benefits

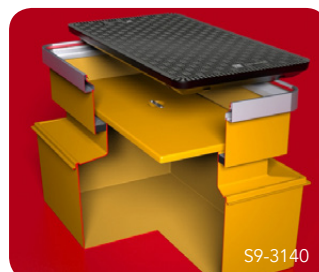
- Watertight – structure will not deform under water pressure
- Anti-static surface
- Vacuum testable during and post installation
- Guaranteed uniform wall thickness
- Pre-installed accessories available
- Compatible with biofuels



S2-360-SKIRT



S2-3760-OF



S9-3140



S16-2100-GA

## Underground containment systems

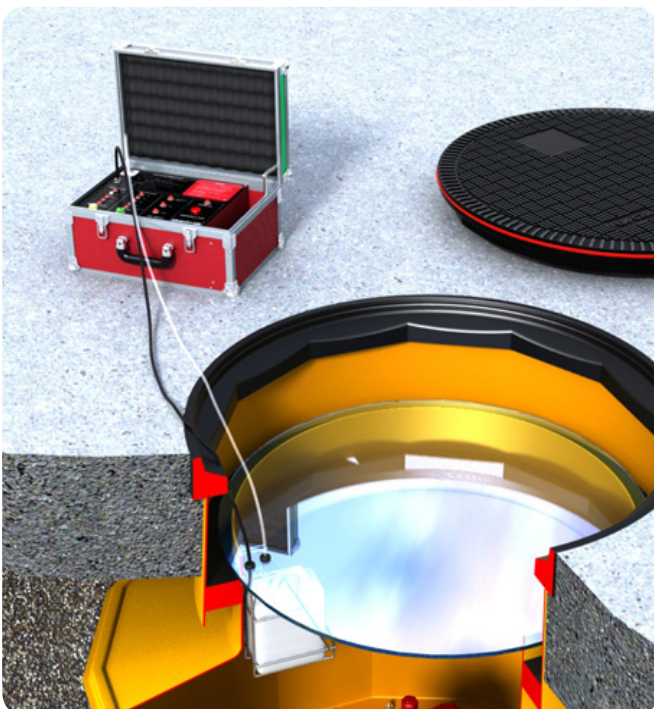
### Vacuum testing



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 peace 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



PSB-50



PEC-33



PEC2-33



PDBD-115-63

## 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)

## Installation

Performance of Fibrelite's access covers is dependent on correct installation and installers must follow our product specific instructions. For unusual installations, please contact our technical department for advice.

## Fibrelite's commitment

Fibrelite's FL76 and FL90 covers have been accredited with the BSI Kitemark. This is your assurance that our products are regularly subjected to rigorous, independent testing to ensure that they comply with stringent standards for safety, product performance and reliability. In addition, the Kitemark also means that the quality systems of the factory where Fibrelite covers are made are systematically assessed. The Kitemark is therefore Fibrelite's commitment towards maintaining the highest possible standards.

Fibrelite products are manufactured in the UK, US and Malaysia. Fibrelite ensures the strictest control on raw material quality and manufacturing standards. All products are manufactured in accordance with ISO9001:2008. ISO accreditation applies to the UK manufacturing plant.

## Our global sales and support network

Fibrelite was established in 1980 and is now part of OPW, a Dover company. Fibrelite products are sold worldwide through an established global network of distributors.



If you'd like to stay in touch with all that's happening at Fibrelite then join the conversation on our social media channels. You'll find us on LinkedIn, Twitter, Facebook, Youtube and Google Plus.



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