

FRP Composite Trench Covers

Lightweight for easy and safe manual removal, without compromising on strength

RETAIL PETROLEUM
INDUSTRIAL COVERS
TRENCH COVERS
STEAM COVERS

FIBRELITE



We've got you covered

fibrelite.com

Modular FRP composite trench covers for use where ease of access and structural performance are critical

At the forefront of quality and innovation

Every Fibrelite trench cover is manufactured using high-technology RTM production methods to create a highly engineered, monolithic composite product. Fibrelite has been at the forefront of fiber reinforced plastic (FRP) composite technology since 1980 and was the very first company to design and manufacture composite covers for any application. The aim was to combat the health and safety issues associated with the removal and replacement of traditional heavy metal covers. Fibrelite has established a global reputation for high quality products and superior after sales service. The company has held accreditation to both the ISO quality standard and British Standards Kitemark since 1998.

Today Fibrelite's high-performance, lightweight and safe-to-lift composite covers – including the unique 90 ton load-rated trench cover – are now selected by specifiers, architects and engineers worldwide.

Lightweight strong and safe

Fibrelite's composite trench covers are designed to be an easy to install and maintenance free product for civil engineering projects. The covers are perfect for covering large areas, gullies, trenches and ducts where occasional or frequent access may be required.

Covers can be installed on a pre-laid concrete rebate or our modular aluminium frame system which is self-keying into surrounding concrete.



Corrosion-resistant: Composite covers are an obvious choice where water, waste water or corrosive liquids are involved

For industrial applications

Fibrelite Composite Covers are now tried and trusted in over 80 countries in facilities as diverse as Data Centres; Water Treatment Plants; Power Stations; Pharmaceutical Plants; Hospitals; University Campuses; Shopping Centres and Housing Developments – not forgetting a London zoo and a specialist water treatment system recently installed in Antarctica!

Easy safe lifting and replacement

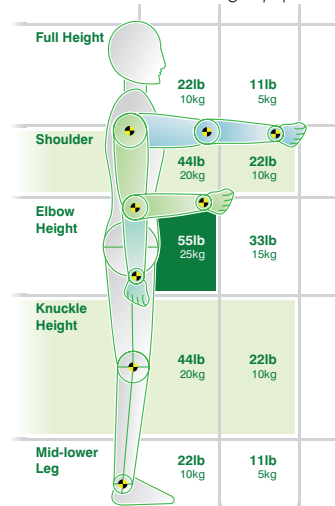
Fibrelite's composite trench covers are proven to be ergonomically safe for men and women to remove and replace. The design incorporates two lifting points for our specially designed FL7 lifting tools. The lifting tools allow operators to remove the cover without trapping fingers or bending over thus maximizing the safety of the lifting technique. The weight is kept close to the body preventing back injury; one of the main causes of occupational injury. The charts below show that the safest place to lift or pull a load is close to the body at waist height.



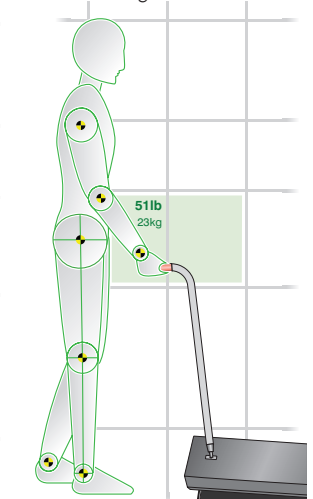
Heavy corroding steel covers requiring a crane & dedicated lifting equipment



Safe, fast, manual removal with Fibrelite lifting handles



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

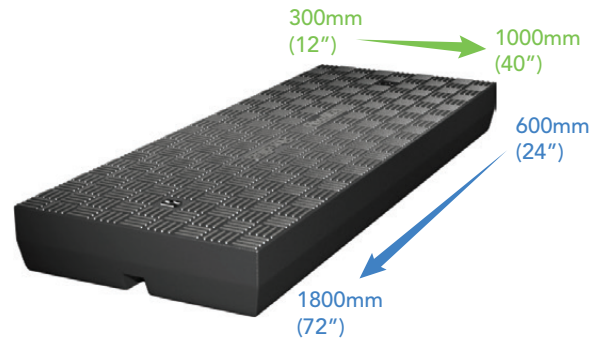


Fibrelite lifting method with a 1m (40") long C250 load rated trench cover. Weights are halved with a two person lift.

World's largest range

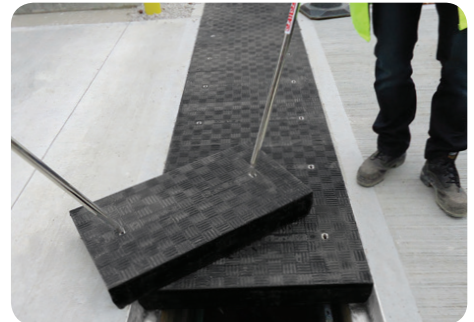
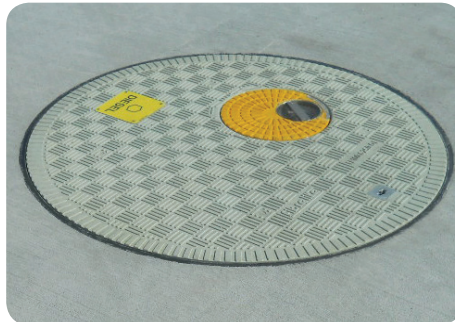
Trench covers are available in a range of widths from 18" to 40"; a range of lengths from 24" to 70"; and four variations of depth: 2", 3", 4" and 4 ½". Custom sizes are also available.

Load ratings available from A15 to F900 including H20/H25.



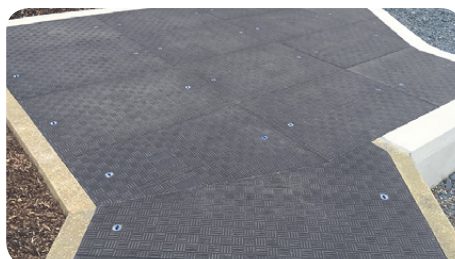
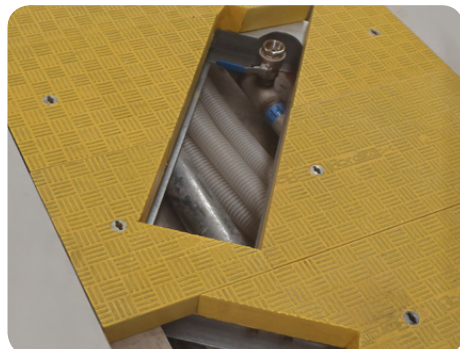
Colored covers for easy identification

Fibrelite covers can incorporate logos and/or be color-coded to match a facility's branding, or even to identify the specific underground service that can be accessed via a particular cover.



Configurations

Covers can be custom-molded to accommodate pipework entry, shallow depths with stepped cover profiles, steam and gas release vents, inspection ports and much more.



Load ratings from 1.5 ton to 90 tonnes



For loads of up to
135,000lb / 60 tonnes

Super Heavy Duty (E600)
For use in areas where high wheel loads are imposed such as loading areas



For loads of up to
56,000lb / 25 tonnes

Standard Duty (C250)
For use in car parking lots, gas stations, industrial sites and areas with slow moving traffic



For loads of up to
28,000lb / 12.5 tonnes

Light Duty (B125)
For use in car parking lots and pedestrian areas where only occasional vehicular access is likely



For loads of up to
3,400lb / 1.5 tonnes

Super Light Duty (A15)
For use in areas where only pedestrians have access

For loads of up to
202,000lb / 90 tonnes

Extreme Heavy Dty (F900)
For use in areas where extremely high wheel loads are imposed such as docks



For loads of up to
90,000lb / 40 tonnes

Heavy Duty (HS25/D400)
For use in areas with frequent bus or heavy truck traffic, including carriage ways, hard shoulders and pedestrian areas



For loads of up to
40,000lb / 18 tonnes

Standard Duty US (HS20)
for use in traffic service areas as per AASHTO standard



For loads of up to
11,200lb / 5 tonnes

Medium Light Duty
For use in raised curb locations where light vehicular access is a possibility



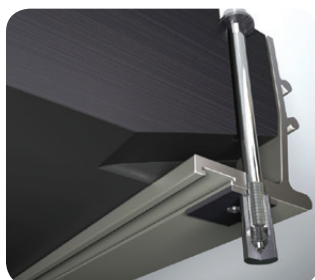
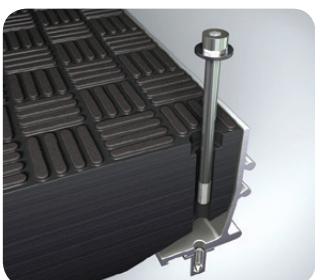
Solution to the metal theft epidemic as composite has no re-sale value to the scrap market

Load ratings
from 1.5 tons
to 90 tons

Benefits in summary

- Load ratings from 1.5 tons to 90 tons
- H20/H25 load ratings available
- Custom-made sizing available
- Perfect for access to drains, ducts and piping
- Maintenance-free, lightweight and durable monolithic structure which will not delaminate
- Corrosion-resistant: unaffected by water, underground gases and most chemicals
- Excellent insulator against heat
- Non-metallic, non-conductor and will not spark
- Treads incorporate an anti-slip material equivalent to modern high grade road
- Safe, easy-lift manual removal using the Fibrelite ergonomic lifting handle that eliminates the risk of back injury and crushed fingers or toes
- Locks available
- Covers can be molded in virtually any color or color combination that will not fade, flake or crack
- Logos or custom markings can be molded into the upper surface

Security restraints available



Out with the old

Composite trench covers are a lightweight and durable alternative to traditional materials like steel and concrete. Trench covers made from steel and concrete are more likely to rust, crumble or deteriorate over time. By using composite trench covers, trenches are easier and safer to access.



Technical resources

Each product is fully supported with dimensional product drawings and installation instructions. To access this information, please visit www.fibrelite.com or contact our Technical Sales team.

Installation

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

Fibrelite's commitment

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

Our global sales and support network

Fibrelite was established in 1980 and currently has three manufacturing plants around the world. Our sales office and manufacturing plant is located in Smithfield, North Carolina, which services North and South America. Our UK facility serves the UK, Europe, Middle East and Africa. Fibrelite's manufacturing plant in Malaysia supplies the Asia Pacific region. Fibrelite has an established global network of distributors to ensure a local Fibrelite representative is available wherever required. Details of your nearest distributor can be found on our website.

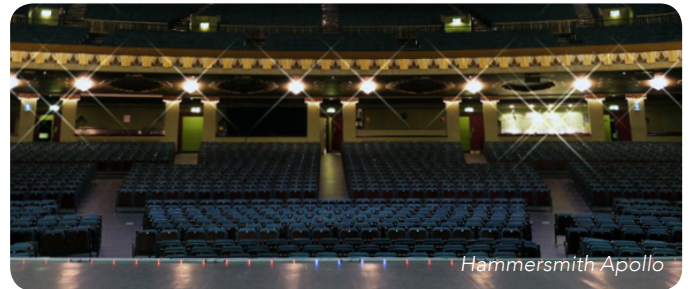


Customer testimonials

Theatre

"Overall I think Fibrelite is a great solution to a difficult design problem for us of achieving both a robust and high load capacity cover to the multicore cables running for stage to control desk whilst maintaining low weight and easy access."

Jonathan Size, Foster Wilson Architects



Power Station

"We were looking for an installation to replace our ageing duct covers. Fibrelite came up with this solution and it is manufactured and sourced locally."

Paul Ellis, Eggborough Power Station



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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