

**Data Centres Specify Fibrelite Composite Access Covers & KPS HDPE Piping To Safeguard Operations**



<b>Location</b>	A number of anonymous locations in the UK, Europe & across the globe.
<b>The challenge</b>	In an increasingly connected digital world, data centres are critical. To ensure 24/7 365 operation and minimise the risk of downtime, data centres are constructed with the highest performance, highest quality building materials available, with every part of a facility meticulously planned. Infrastructure is an integral part, normally comprising of an Uninterruptible Power Supply (UPS), power distribution, cooling systems, fire systems and security systems, many of which have redundancies (2N+1 for Tier 4 facilities, guaranteeing 99.995% uptime) including back-up power generators to prevent interruption of service. Two contemporary products being adopted by leading data centres across the globe are Fibrelite's lightweight FRP composite trench access covers (to protect and provide easy access to underground infrastructure) and KPS' HDPE piping (to fuel backup generators).
<b>Client</b>	Anonymous data centres in the UK, Europe & across the globe.
<b>The solution</b>	<p>A reliable fuel supply is key to backup generators' smooth operation, connecting generators to fuel storage tanks and tanks to fill points.</p> <p>Corrosion-resistant, safe and easy to install the KPS HDPE piping system helps fuel flow safely, even providing protection against ground movements (using the elasticity and flexibility of HDPE). Safety can be enhanced further by installing KPS' conductive piping option, ensuring continuous conductivity between the tank and the end of the line (which can be earthed). This helps to prevent the accumulation of electric charges that could otherwise be created by the friction of the fuel velocity and the plastic inner surface. KPS' 4" (110mm) piping also delivers a 933 litre/minute flow rate, making it ideal for fill lines (KPS piping is available in 1" to 4" diameters in single or double wall). KPS will also soon be releasing a 6" double wall product range.</p> <p>Another contemporary product line seeing widespread global adoption by architects, design engineers and specifiers to enable easy access to underground infrastructure is Fibrelite's modular FRP composite trench/channel access covers. These are now often specified at the outset of new build data centre projects. Bespoke, modular and lightweight, Fibrelite covers are designed to be removed quickly and easily by two people using Fibrelite's ergonomically designed lifting handles, even where heavier load ratings are required (e.g. channels running between buildings with vehicle traffic). Due to their unique custom engineering capabilities, Fibrelite can manufacture access covers at all load ratings up to F900 / 90 tonne (A15, B125, D400, E600 and F900). Traditionally, for the past 100 years, access covers have been made from concrete or metal which are 3-4 times the weight of Fibrelite covers, often requiring specialised lifting equipment to remove and replace. Fibrelite covers are also impervious to corrosion and have a unique anti-slip walking surface. In many instances where Fibrelite access covers are adopted, companies choose to specify a bespoke option, custom-manufactured to specific requirements including size, colour, load rating, fittings (e.g. securing systems) and moulded identification of below ground services. Fibrelite has also undertaken projects where they have designed and manufactured retrofit replacements for previously installed heavy concrete or metal access covers.</p>
<b>Further details</b>	<p><a href="#">Explore KPS' technical case studies here</a></p> <p><a href="#">Explore Fibrelite's technical case studies here</a></p>