

Retrofit Solution For Backup Generator Supply Lines



Fibrelite

Location	Nottingham City Hospital, UK
Description	Hilton Bodill Construction contacted Fibrelite on behalf of their client, Nottingham City Hospital, who required a lightweight and strong modular covering system for their newly re-routed service trench, which replaced the traditional heavy concrete slabs. These protect and provide access to the hospital's backup diesel generators supply pipes (diesel and oxygen). An easy-install, corrosion-free replacement for their previously existing steel piping was also required.
Partners	Fibrelite and KPS Piping (brands of OPW), Hilton Bodill Construction.
The challenge	The previously existing concrete trench access covers were heavy, requiring specialist lifting equipment to remove and replace them: a time consuming and expensive process. Due to their weight, they also posed a risk of injury to maintenance teams (quick access to the piping is vital for maintenance and inspection). Nottingham City Hospital also wanted to replace their steel pipework with a reliable plastic piping system, eliminating the potential for corrosion and subsequent fluid egress.
The solution	<p>OPW's UK technical team put together a proposal combining lightweight Fibrelite GRP composite trench covers and KPS double wall polyethylene piping, which was accepted by the contractor and end user.</p> <p>Key Benefits Of Fibrelite Covers For This Project:</p> <ul style="list-style-type: none"> • No specialist machinery or personnel required for removal and replacement • Strength-to-weight ratio. All trench covers can be safely removed manually by two people while strong enough to withstand sustained loading • Bespoke aluminium frame section supplied by Fibrelite to fit existing rebate – ensuring minimal upheaval to site works • Bespoke Fibrelite covers modified to include apertures accommodating pipework extending from within the trench to above ground networks • Fibrelite covers are corrosion-resistant - unaffected by water, underground gasses and most chemicals <p>Key Benefits Of KPS Piping For This Project:</p> <ul style="list-style-type: none"> • Engineered for easy installation. Compact, installer friendly KPS fittings weld both walls of a double wall pipe simultaneously • In house and onsite installation training provided (standard for clients new to the KPS piping system) • Lightweight • Corrosion free polyethylene piping • Zero permeation (liquid/watertight)
The results	The easy access solution provided by Fibrelite trench covers eliminates the need for any specialist personnel or machinery during maintenance or operation, while KPS piping provides a compact, long-term fluid transfer solution (trusted by oil companies around the globe).
Further details	Click here to visit the Fibrelite website for more case studies