CASE STUDY:

UK Power Station

Fibrelite Supply Cutting Edge Custom Trench Covering Solution to One of The UK's Largest Power Stations

Approximately 625 metres of custom designed and manufactured Fibrelite GRP trench covers and frames were specified for this project at one of the UK's largest power stations. Customisation, manual handling and longevity were the key requirements, including nonstandard frame sections consisting of laser fusion welded and hot dip galvanised steel.

This project demanded prompt supply on a grand scale

'Shaped' trench covers supplied to accommodate trench directional changes

Key Requirements

- This project demanded prompt supply on a grand scale: approximately 625 metres of trench covers (with frame sections to suit).
- D400 load rated GRP composite trench covers which met the BS EN 124 testing standards while remaining light enough for safe manual removal and replacement.
- Covers fitted with a secure bolt down system prior to despatch.
- 'Shaped' covers to accommodate trench directional changes.
- To ensure extended service life, nonstandard frame sections consisting of laser fusion welded, hot dip galvanised steel were requested.

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Hundreds of metres of trench covers & frames were required for several trench runs

A GRP trench covering solution was for easy safe manual handling

A D400 load rating was required for the regular heavy duty traffic

The Fibrelite Solution

- The Fibrelite Technical team worked closely with end user's nominated Design Engineering Company and the third-party contractor to produce and deliver a custom designed solution which would meet all requirements and specifications.
- 625 metres of custom D400 load rated Fibrelite GRP composite trench covers (in line with the BS EN 124 load classification) with 117-150mm deep step to reduce cover unit weight and ensure safe manual handling.
- Restraining bolt mechanisms for added security.
- Bespoke 'Shaped' trench covers to accommodate trench directional changes.
- Nonstandard frame sections consisting of laser fusion welded and hot dip galvanised steel.
- Fibrelite trench covers are designed for safe, fast manual removal.

Fibrelite trench covers are designed for safe, fast manual removal (image used for illustration purposes and shows a different installation).

D400 load rated trench covers (in line with the BS EN 124 load classification)

625 metres of custom GRP trench cover were designed & manufactured

Restraining bolt mechanisms added for added security