



Fibrelite provided a bespoke composite trench covering arrangement for this manufacturing and research facility



Fibrelite trench covers are designed to be safely removed manually

Project Overview

Fibrelite were contacted in the early part of 2020 by a third-party construction company. They had been requested to source a GRP covering arrangement for their client's service duct trenches at a major UK based manufacturing and research facility.



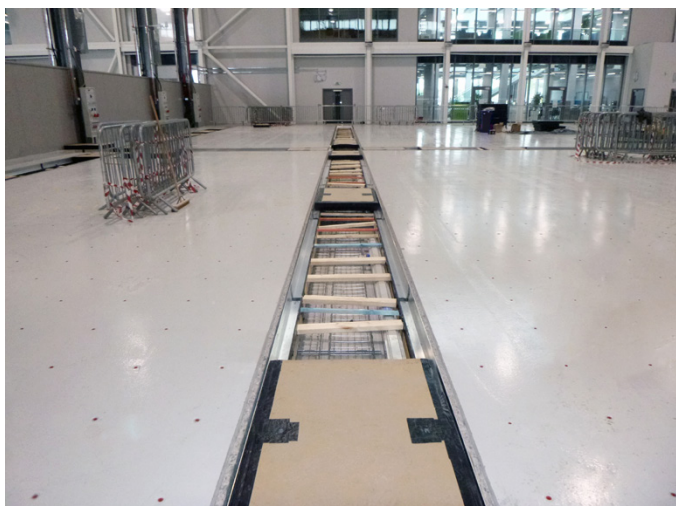
Central and offset service access ports were required

Problem

Operational difficulties posed by the previously existing concrete cover slabs led to an essential replacement programme being mandated. The end user had recently moved into the facility and established that an alternative covering solution would be needed to optimise future operations due to specialist personnel and machinery being required for removal and replacement of concrete slabs and other issues including:

- Previously existing D400 concrete covers were extremely heavy and cracked in some areas (as pictured stacked, awaiting disposal)
- Central and offset service access ports required in order to allow easy access to services without the need to completely remove covers

A smooth finish was also required (no tread pattern).



Fibrelite framing system installed into the existing precast rebate



Previously existing D400 concrete covers were cracked in some areas



Removing the previously existing covers was a costly and time-consuming operation



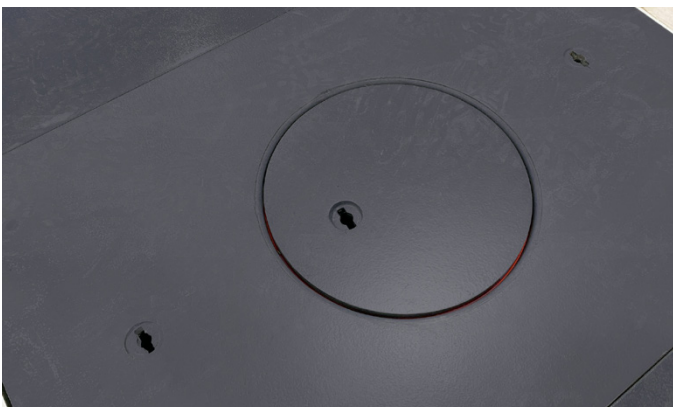
Previously existing concrete covers stacked, awaiting disposal

Solution

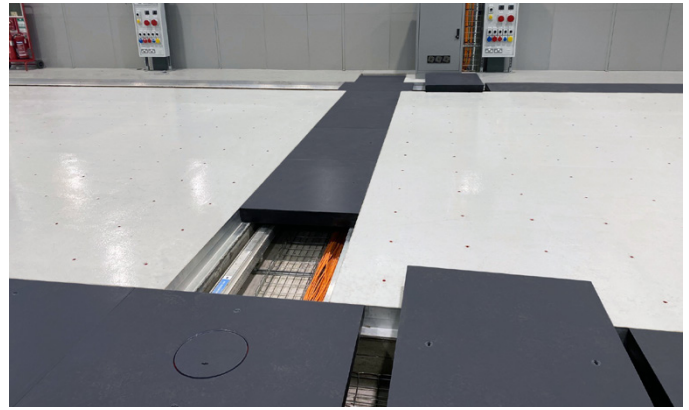
Following the requested site survey, which was completed by the Fibrelite team, a solution was presented to the end user. A collaborative process between the Fibrelite team the construction company and the end user was instrumental in engineering an appropriate solution for this unique upgrade project. Fibrelite GRP covers are extremely durable yet lightweight making them ideal for easy manual handling (designed to be removed manually by two people).

Key Fibrelite engineering achievements for this project:

- Fibrelite trench covers are designed to be safely removed and replaced by two people using the ergonomically designed FL7 lifting handles
- The Fibrelite replacement covering solution included covers modified to include central and offset service access ports
- Fibrelite covers moulded without the tread pattern per customer request to achieve a smooth finish
- Installation of the Fibrelite framing system into the existing precast rebate using an epoxy grouting system



The easy access solution provided by Fibrelite eliminates the need for specialist personnel or machinery



Fibrelite covers moulded without the tread pattern per customer request

Results

The easy access solution provided by Fibrelite eliminates the need for specialist personnel or machinery during maintenance or operation.

Key benefits of Fibrelite trench covers:

- Easy access to trench services using the ergonomically designed Fibrelite FL7 lifting handles
- Best strength to weight ratio available in the market
- Retrofit installation of bespoke Fibrelite frames
- Custom designed and engineered trench covers
- Fast installation



All Fibrelite trench covers can be safely and quickly removed by two people using the FL7 lifting handles

For more information on Fibrelite's product range please contact us:

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