

CASE STUDY:

Flood Defence Site, UK

Flood Defence Site Specifies Retrofit Fibrelite Covers for Flood Defence Door System

On this flood defence site, the previously installed steel access plates which were used to securely stow away flood defence doors had deformed which, together with their weight, made them challenging to remove and replace. Given that ease of access during emergency flood events was of critical importance, the site approached Fibrelite for a long-term retrofit replacement.



Covers interface with flood defence barriers, for which ease of access during emergency flood events is of critical importance



Previously installed steel access plates had deformed

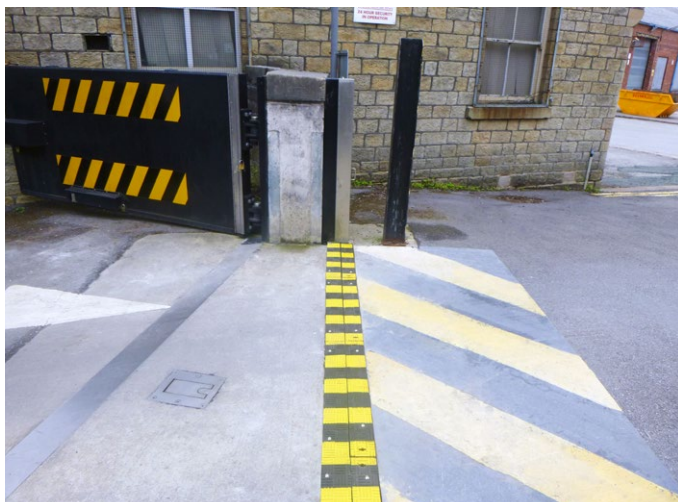
Key Requirements

- Replacement trench covers were required to include an integrated restraining mechanism to prevent unauthorised removal (which could result in a trip hazard).
- Covers were required to be colour coded with black/yellow chevrons to highlight/identify potential hazards to both onsite staff and the general public.
- D400 load rated covers to withstand the regularly heavy goods vehicles traffic.
- A retrofit solution which could be fit to the existing aperture, minimising downtime.



The site approached Fibrelite for a long-term retrofit replacement

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Fibrelite covers can be removed and replaced manually safely and safely



Fibrelite D400 GRP trench covers will not deflect under sustained heavy loads

The Fibrelite Solution

- The Fibrelite Technical team custom designed and manufactured a retrofit replacement GRP composite trench access covering solution which fit directly into the existing aperture.
- Trench covers were custom manufactured to include restraining bolts to secure the barriers from unauthorised access.
- The covers were colour coded using black and yellow pigments to highlight/identify potential hazards to both onsite staff and the general public.
- The retrofit covering arrangement was manufactured to a D400 load rating as per client specification, due to the frequent HGV traffic.
- Trench covers will not deflect under sustained heavy loads consistent with D400 load rating.
- The client can now gain access to the flood defence doors quickly and easily in an emergency as the new lightweight Fibrelite trench covers can be removed and replaced manually safely and easily using the ergonomically designed FL7 lifting handles.
- Corrosion-resistant: unaffected by water, underground gasses and most chemicals.
- Anti-skid/slip surface.



Fibrelite retrofit replacement GRP composite trench access covering solution