

**Fibrelite Design And Engineer Retrofit Replacement for Heavy Cast Iron Recess Access Covers With Concrete Infill**



**FIBRELITE** 

<b>Location</b>	Devon, UK
<b>The challenge</b>	<p>Fibrelite was contacted about this upgrade project and shortly thereafter was invited to conduct a site survey. This client desired a simple replacement for their previously installed heavy cast iron recess (access) covers with concrete infill. The retrofittable design and engineering solutions offered by Fibrelite meant that they would be an ideal candidate for manufacture and supply.</p> <p>The previously installed cast iron and concrete access covers were very heavy. This caused frequent operational difficulties for the customer which they considered manageable for some time. After a certain point, the site managers decided that the cost and health and safety risks posed by these heavy cast iron recess covers were no longer tenable.</p> <p>Key difficulties with previously installed access covers and requirements for replacement:</p> <ul style="list-style-type: none"> <li>• Removing and replacing the cast iron and concrete access covers necessitated specialist machinery (a crane) and training for operatives.</li> <li>• Existing key housings had corroded/deformed, adding to the difficulty incurred during removal.</li> <li>• The replacement covers needed to be stepped 84mm to 117mm deep to accommodate the existing frame as the customer did not wish to break out concrete if possible.</li> <li>• The replacement covers needed to comply with the D400 load rating.</li> </ul>
<b>The solution</b>	<p>Shortly after the site survey, the Fibrelite technical team was able to provide a proposal that would meet the requirements mandated from the outset by the customer. The site survey and proposal were completed quickly, which was pleasing to the customer who was keen to quickly implement this upgrade. Fibrelite's replacement solution was engineered and delivered to the required specifications.</p> <p>Key Fibrelite benefits and design challenges overcome:</p> <ul style="list-style-type: none"> <li>• Fibrelite's lightweight GRP composite trench access covers can be easily removed and replaced by any two people using the Fibrelite supplied ergonomically designed FL7 lifting handles.</li> <li>• Quick and painless install, no need for concrete break out: Fibrelite delivered custom manufactured 84mm - 117mm deep stepped trench access covers which could be retrofitted directly into the existing frames with no modifications required.</li> <li>• The lightweight D400 load rated trench access covers delivered by Fibrelite ensure the customer will benefit from safe and easy manual handling due to the significantly reduced cover weight.</li> </ul>
<b>Further details</b>	<a href="#">Explore Fibrelite's technical case studies here</a>