



**Duration**

**2 weeks**

# CCUK PROJECT INSIDER CHARTERHOUSE STREET

STRENGTHENING OF BEAMS, SLABS AND WAFFLE SLABS USING  
CARBON FIBRE

[www.fibrwrap-ccuk.com](http://www.fibrwrap-ccuk.com)

**Client**  
D & B  
Contract



# TABLE OF CONTENTS

<b>01.</b>	<b>Introduction</b>	<b>P. 02</b>
<b>02.</b>	<b>The Challenge</b>	<b>P. 03</b>
<b>03.</b>	<b>The Solution &amp; Results</b>	<b>P. 04</b>
<b>04.</b>	<b>The Results</b>	<b>P. 05</b>
<b>05.</b>	<b>Why choose CCUK?</b>	<b>P. 06</b>

# 01

## Introduction

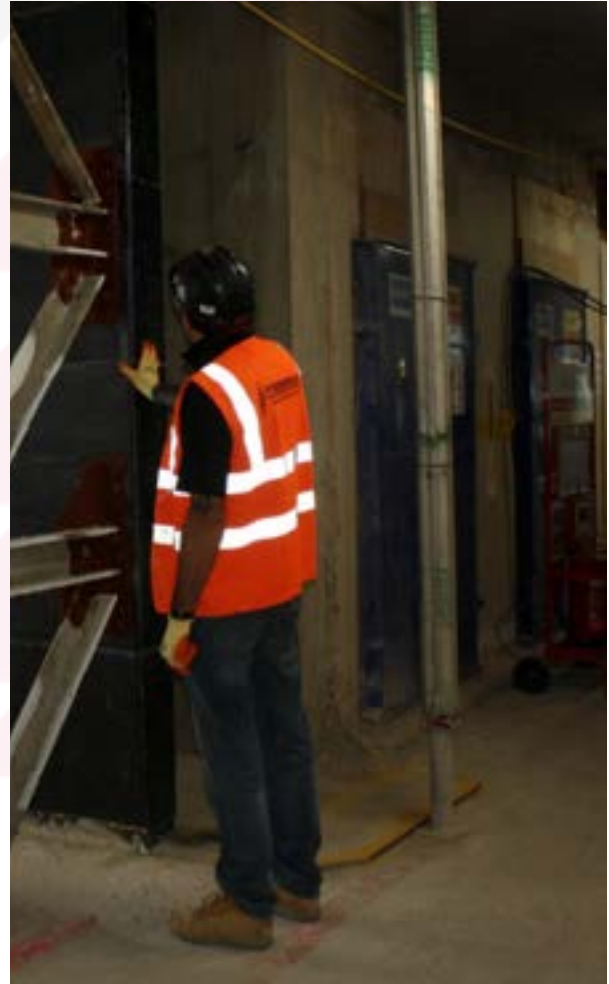
Our company has worked on several project for Ramboll over the years, this project, a major refurbishment and multi-level extension of an existing building structure complete with vehicle lift void, was one of our largest and more complexed in 2019. This project came as D&B contract through J Coffee Construction who appointed Coghlan Consulting Engineers from Dublin to derive load information for FRP design from Ramboll's project design information.



# 02

## The Challenge

There was a significant increase of imposed loads on the existing structure, requiring strengthening in multiple area's to beams, solid slabs and waffle floors.





# 03

## The Solution

This was a complexed 'multifaceted' structural refurbishment project, requiring close working with the designer and main contractor. CCUK, used the analysis done by Coghlan Consulting Engineers to design a Fibrwrap CFRP strengthening system for each area which was failing in proposed loads. The subsequent 'design strategy' enabled the successful application of our FIBRWRAP CFRP system throughout.



## The Results

"Fibrwrap UK proposed a unique solution that we had never come across before. Their high strength, lightweight system is perfect for carrying out these kinds of repairs in old buildings with restricted head heights."

"The key factor in deciding to go with Fibrwrap was not only the cost but also the speed and efficiency of the system. It didn't affect any other works or the construction timeline and being so thin you wouldn't know it was even there."



05

## Why choose CCUK?

Working throughout the UK and the Humber region, CCUK provide design & build specialist construction services. We pride ourselves on being innovators in construction services and thrive by taking on the biggest of challenges. As certified installers for major material suppliers like **WEBER, SIKA, Fosroc and Fyfe** we are approved by the biggest and best in the business:

Established in 2010 we have built a reputation with our customers for a high quality of service and our innovative engineering solutions underpinned by our commitment to safety and sustainability. We are flexible and work collaboratively with our clients which has helped to secure a high percentage of repeat business across all industry sectors direct with clients as a specialist contractor.

Tel: +44(0) 1482 425250  
+44(0) 2075 493676

Email: [contact@fibrwrap-ccuk.com](mailto:contact@fibrwrap-ccuk.com)



ISO  
9001 : 2015  
REGISTERED

ISO  
14001 : 2015  
REGISTERED

OHSAS  
18001 : 2007  
REGISTERED

