



**Duration**  
**24 weeks**

# CCUK PROJECT INSIDER

## HILL HOUSE

**SHEAR WALL STRENGTHENING**

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

**Client**  
**HG**  
**Construction**



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01

# Introduction

An 11 storey office block in North London was converted into luxury residential apartments in 2015.



# 02

## The Challenge

CCUK (Fibrwrap) was contracted to design and install CFRP wall strengthening in the central cores for additional loading, door openings through shear walls internally and service risers through concrete slabs.





# 03

## The Solution

The whole project consumed over 4000m<sup>2</sup> of Fibrwrap Carbon Fibre Wrap Systems, 32 tonnes of steel and over 300 Fibrwrap patented carbon fibre anchors to pass through slabs and staircases between floors. In addition the design called for the strengthening scheme within the cores to be anchored into the foundations, CFRP anchors 1.6m long were drilled and resin fixed into the pile caps.



# 04

## The Results

This extremely complicated FRP design could only be achieved using Tyfo Fibrwrap Systems, we were very proud to be working on such a large project and believe is still the largest FRP strengthening of a building in the UK to date.



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.

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ISO  
9001 : 2015  
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ISO  
14001 : 2015  
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OHSAS  
18001 : 2007  
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