

Structural Strengthening

Design Pultruded Plate Installation **Structural** Assessment FRP Composite Wrap Installation **Load Testing Post Installation** Monitoring



for the **design** and **installation** of **fibre reinforced polymer (FRP)** composite strengthening

schemes for steel, concrete, masonry and cast iron structures. CRL was

the **first company in the UK to use FRP composites** for strengthening concrete in 1996. **CRL** have played a **key role** in **developing** the technique and assisted with the development of standards and guidance documents for the design, installation and management of composite systems published by the Concrete Society as Technical Reports 55 & 57. **CRL provide** the construction industry

with **innovative strengthening techniques** using **FRP composite** materials which comply with

current Eurocodes.



CRL continue to **lead** the **construction industry** in the innovative

use of FRP composites. CRL have strengthened many concrete,

steel, masonry and cast iron structures in the last 20 years using a combination of techniques and

worked closely with Universities to enhance our knowledge and understanding of these materials and their long term performance. Our largest project has been the installation of 15 KM of CFRP plates to strengthen floors in an office building. Recently CRL have started to develop the use of FRP composites for new bridge structures and replacement decks. These are lightweight, manufactured off site, quick to install and durable. A sustainable solution for the modern construction industry.



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