



**ENGINEERED
COMPOSITES**
STRENGTHENING INDUSTRY



GRP BOX SECTION CASE STUDY

Kingston
University
London

Engineered Composites – Proudly supporting one of the UK's leading Civil engineering universities, Kingston University London.

OBJECTIVES

The use of Glass Reinforced Polymer (GRP) composite materials is of growing interest to the Research team at Kingston University. The expert team believe the unique properties of Pultruded GFRP, such as its high weight to strength ratio, make it an ideal construction material in a world that demands efficiency and environmentally friendly materials.



Our study focuses on using GRP to create aesthetically appealing façade panels. GRP is proven to outperform traditional non-composite panels, but their ability to resist complex loading scenarios a façade panel would endure during its life span has not been thoroughly explored. With the support Engineered Composites, we are investigating the structural behaviour of GRP structures with the intention of bringing the concept to the masses.

Dr. Behrouz Zafari Kingston University



CHALLENGES

- Modern architecture is embracing minimal designs.
- Lighter and more efficient materials needed for construction.
- Life Span and durability issues with current materials.



GRP BOX SECTION BENEFITS

- Weatherproof and Robust.
- Lightweight, highly durable and incredibly strong.
- Our GRP Box Section Profile meets the BSEN13706 specification for GRP Pultruded Profiles.
- Box sections ready in stock - and can be cut to bespoke lengths.

SOLUTION

Engineered Composites supported the Kingston University team by providing GRP Box sections to help with their research and testing. We have had many in-depth conversations with their talented research team and have helped with our extensive knowledge base - to the point where Engineered Composites will be credited in the final research papers.

Our GRP Stock includes:

- GRP Pultruded Profiles
- GRP Rods & Tubes
- GRP Standard Handrails
- GRP Modular Handrails
- GRP Fencing
- GRP Grating & Flooring
- GRP Interlocking Floors
- GRP/FRP Rebar
- GRP Anti-Slip Products

Order your free sample pack today!

CONTACT

+44 (0)1244 676 000

info@engineered-composites.co.uk

Engineered Composites Ltd
Unit B4, Borders 2 Industrial Park
River Lane, Saltney
Chester, CH4 8RJ