



CASE STUDY

PROJECT
DRUMMER STREET BUS STATION,
CAMBRIDGE, UK

CUSTOMER
CAMBRIDGESHIRE COUNTY
COUNCIL

PRODUCTS USED
PARAFIL™ TYPE G, KEVLAR® 49
CORE YARN, 22.5 TONNE
NOMINAL BREAKING LOAD

TERMINATIONS
ANODISED ALUMINIUM

PROJECT DATE
1991

HIGH STRENGTH SYNTHETIC CABLE PRODUCTS PARAFIL™ TYPE G - LONG TERM

DRUMMER STREET BUS STATION | CAMBRIDGE, UK



Bus Station roof as viewed following installation in 1991

"The roof of the Cambridge Drummer Street Bus Station has a 7 metre cantilever which is supported by Parafil® cables. The structure is designed with four masts each supporting a pair of forestays and back stays. Although designed primarily to resist snow loading, the stays are permanently stressed to ensure the roof remains stiff even when wind loads cause uplift."

Ref: CJ Burgoyne 'Fibre-Reinforced-Plastic Reinforcement for Concrete Structures: Properties and applications' A Nanni (editor) 1993 Elsevier

The Parafil® support stays have now been installed and under constant tension for over 24 years. The Parafil® has received no maintenance works and has required no adjustment since installation. This demonstrates the extremely long service life offered by the Parafil® system – both ropes and Linear Composites' metallic terminations.

Parafil® is a highly durable technical fibre rope system offered on a free-length basis or as terminated strops to a precise length.

Parafil® is offered with three standard fibre types ...

- High Modulus Kevlar
 - Standard Modulus Kevlar and
 - High Tenacity Polyester,
- with other more specialist fibres available to order.

*Bus station roof in 2015;
24 years after installation*



Member of the Maccaferri Group



Linear Composites Ltd reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.

Linear
COMPOSITES

Linear Composites Limited
Vale Mills, Oakworth, Keighley,
West Yorkshire, BD22 0EB, UK
Tel: +44 (0)1535 643363
Fax: +44 (0)1535 643605
www.linearcomposites.com
e-mail: sales@linearcomposites.com