



## CASE STUDY

**PROJECT**  
CABLE BRIDGE SUPPORT STAYS

**MAIN CONTRACTORS**  
MAUNSELL STRUCTURAL  
PLASTICS LIMITED

**PRODUCT USED**  
PARAFIL® TYPE G,  
KEVLAR 49 CORE FIBRES,  
15 TONNE AND 22.5 TONNE  
NOMINAL BREAKING LOAD

**TERMINATIONS**  
STANDARD ANODISED  
ALUMINIUM FORK END

## HIGH STRENGTH SYNTHETIC CABLE PRODUCTS PARAFIL® CABLE BRIDGE SUPPORT STAYS

### ABERFELDY FOOT BRIDGE, PERTHSHIRE, SCOTLAND

PARAFIL® Type G, Kevlar 49 core fibres, 15 tonne and 22.5 tonne, synthetic cable bridge support stays, used for the world's first all-plastic footbridge spans the River Tay in Scotland, providing golfers with a link between the two halves of the Aberfeldy course. Although designed for pedestrian use, the load specification of 1 tonne/metre length is close to that of a road bridge.

The structure relies for its integrity on PARAFIL® cable stays which provide support for the 63 metres main span. Load is distributed via the two 17.5 metres high A frames. The total weight of the structure is close to 22 tonnes and the overall length is 113 metres with a deck width of 2.23 metres. Deck, A frames and hand rails are manufactured from pultruded composite materials.



**Linear**  
COMPOSITES

**Linear Composites Limited**  
Vale Mills, Oakworth, Keighley,  
West Yorkshire, BD22 0EB, UK  
Tel: +44 (0)1535 643363  
Fax: +44 (0)1535 646889  
www.linearcomposites.com  
email: mail@linearcomposites.com

Member of the Maccaferri Group

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*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.*