



# CASE HISTORY

## HIGH STRENGTH SYNTHETIC ROPE THE PARAFIL® SYSTEM

### PROJECT

ROCKFALL & DEBRIS FLOW

EMBANKMENT

LOCH OICH, SCOTLAND

### DESIGNER

AECOM, CHESTERFIELD

### PRODUCT USED

PARAFIL® TYPE F

22.5 TONNE

### TERMINATIONS

ANODIZED ALUMINIUM

**GREAT GLEN CYCLEWAY, SCOTTISH HIGHLANDS.** During upgrading of a section of the major north-south “Great Glen” cycleway in Scotland, Engineers identified a significant threat of rockfall affecting a short section of the route. Blocks were falling from a cliff at the crest of a steep and unstable talus slope. To reduce the risk at the site, it was decided that a falling rock protection system should be installed.

The budget for the project was tight, both installation and maintenance costs had to be low and the system had to be able to protect against repeated impacts over a long period without a loss of functional performance. The project engineer Adrian Koe, developed a novel design using a combination of highly durable materials to satisfy the requirements for the project. The design employed a 3m high mass-gravity rockfall embankment, based on Maccaferri Gabion baskets, with their ease of use and BBA certificate for up to 120 year design life.



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