



Pavement Reinforcement, A87 Varragill, Isle of Skye

Pavement Reinforcement

The A87 at Varragill on the Isle Of Skye is all purpose single carriageway with approximately 2200 AADT and 5% HGV traffic.

Due to underlying peat the road was suffered from severe edge failure, significant cracking and longitudinal undulations giving a poor ride quality and, in some areas, unsafe driving conditions.



Example of verge failure with evidence of previous repairs

Project Information

Engineer **Transerv**

Main Contractor **Bardon Contracting**

Sub-Contractor **ABG**

Products • **Rotaflex 830**

Benefits • **Reduced reflective cracking**
• **Extended fatigue life**
• **Combined waterproofing layer and reinforcement**

Scotland Transerv carried out the maintenance design and incorporated Rotaflex 830 glass fibre pavement reinforcement system within the bituminous layers of the pavement design.

Rotaflex is a grid/textile composite, the textile absorbs bitumen to create waterproof layer. This prevents deterioration and delamination due to water penetration.

Rotaflex was chosen as a result of the combined function of the stiffening properties of the glass fibre, plus the creation of the waterproofing layer as a result of the textile layer.

Rotaflex is installed using a K1-70 emulsion which bleeds through an integral polyester geotextile to ensure an excellent bond during installation with no movement during the paving process.

The use of K1-70 combined with the open aperture

For more information on Rotaflex visit www.abgtd.com/products/rotaflex

structure of Rotaflex also ensures an excellent long term bond between all bound layers maximising pavement design life.

The existing road was overlaid with a base regulating course, followed by the Rotaflex 830, then a binder course and finally a surface course. In total 26,000m² of Rotaflex 830 were supplied and installed by ABG Ltd working closely with Bardon Contracting who laid the surfacing layers.

Rotaflex has proven history in solving asphalt reinforcement problems such as occurred on this project. Contact ABG to explore in more detail how Rotaflex can offer a sustainable and cost effective solution in your project.



About ABG

ABG are a market leading developer of high performance geosynthetic solutions for use in a wide range of civil, environmental and building applications. Established for 25 years and based in the UK ABG pride themselves of delivering outstanding customer service along with innovative solutions.

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