

# CASE STUDY

**WHERE?** B729

**WHEN?**

**WHO WAS THE CLIENT?** DG First



## **OVERVIEW:**

The existing surface had undergone widespread fatigue failure and localised deformation due to heavy use by timber lorries. The existing road had been built up with several overlays in the past. A new 40mm overlay was required to have an extended life in this remote part of Dumfries and Galloway. 160/220 pen bitumen spray at a rate of 1.1l/m<sup>2</sup> was applied and 15,000m<sup>2</sup> of Tensar Glasstex P50 laid using a purpose built machine by specialist installer Foster Contracting Ltd. 40mm of 10mm close grade wearing course was then laid by the client.

## **WHAT WERE THE CHALLENGES?:**

The B-class rural road was heavily used by the timber industry on a daily basis. 15,000m<sup>2</sup> of the existing surface showed evidence of fatigue failure and surface deformation on a road that had previously been overlain on several occasions. A solution was required to extend the service life of an additional overlay subject to heavy trafficking by timber lorries.



## THE SOLUTION:



Tensor Glasstex P50 was used to reinforce the new overlay, which consists of a paving fabric that acts as a stress absorbing membrane interlayer (SAMI) stitched to high tenacity glassfibre yarns that provide additional reinforcement to the overlay. The existing surface, although showing evidence of fatigue, was sufficiently intact to permit a straight-run bitumen binder coat to be applied followed by Tensor Glasstex P50 installed under tension by specialist machine onto the existing blacktop surface. The Glasstex was then covered in a 40mm close grade wearing course.

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## BENEFITS TO CLIENT:

Simple, low-cost means of preventing reflective cracking whilst extending the life of the pavement and enhancing the protection of the underlying asphalt.

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