





Area 05

CAPITA

CLIENT Costain/Capita

CONSULTANTS Costain/Capita

LOCATION M25

Bell Common Tunnel

CONTRACTOR Aggregate Industries

QUANTITY 22,000m²

PRODUCT GlasGrid®

CompoGrid CG100

DATE July - November 2009

KEY OUTCOMES

Longevity Extending pavement life up to five times

Technology By using ARCDESO software, this enabled the client to forecast

the effect of implementing the solution

Efficiency Keeping disruption to a minimum by operating over 4 nights

Safety Reducing road surface related accidents and collisions

Results The CompoGrid treated areas in the tunnel are still crack free nearly

7 years on

Environmental Providing a greener solution by allowing a thinner pavement design

to reduce carbon footprint

PRODUCT SPECIFICATION

GlasGrid® CG100

Ten	isile strength	115 x 115 +/- 15 kN/m
Me	Iting Point Coating	>232° C
Me	Iting Point Glass	>820° C
Gri	d Size	25 x 25 mm
Ma	ss per Unit Area	542 g/m²
Rol	l Length	60 m
Rol	l Width	1.5 m

GlasGrid® is an exceptionally strong reinforcement grid structure that is able to control crack growth and increase load bearing capability. It can extend pavement life up to a factor of 5 and permits thinner pavement design, making it the best choice price wise, whilst reducing the carbon footprint.

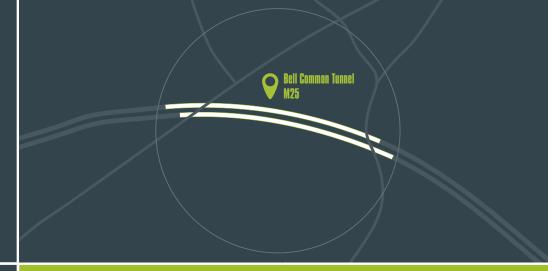


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ROUTE PLANNER

START JULY 2009

Consulting with Costain/Captia to identify the M25 Bell Common Tunnel issues.

OFIRST STEP

Using (ARCDESO) Technology to help decide the best solution.

OHIT THE ROAD

Working with Aggregate Industries and using GlasGrid® CompoGrid CG100.

MOVING FORWARD

Laying 22,000 m2 GlasGrid® CompoGrid CG100 over 4 nights.

STAYING ON TRACK

Work completed on time by Asphalt Reinforcement Services qualified team.

O FINISH

With the pavement life extended up to a factor of 5, the tunnel's future was looking bright.

≈ FINISH NOVEMBER 2009

START

With tens of thousands of vehicles travelling daily, the M25 is constantly busy. This means there is constant pressure on its road surface. Working closely with the client, Asphalt Reinforcement Services wanted to find the best way to arrest development of reflection cracks in the Bell Common Tunnel on the M25. What was needed was a maintenance free solution that would reduce reactive maintenance costs

ROUTE

That's where Anti-Reflective Cracking Design Software (ARCDESO) came in. The technology helped Capita in their design of a 95mm asphalt overlay of a continuously reinforced concrete pavement. Next, GlasGrid® CompoGrid CG100 was installed prior to the overlay, in order to arrest reflection cracks that could develop in the bituminous layers. The 22,000m. area of GlasGrid® CompoGrid CG100 was installed over 4 night shifts by specially trained operatives. They used purpose built applicators, specifically designed to pretension and install the reinforcement, free from any wrinkles or folds for a smooth finish.

FINISH / DESTINATION

The beauty of ARCDESO was that the client was able to see a model of the lifetime performance of the pavement. The GlasGrid® CompoGrid CG100 stood out as the most effective way to strengthen and prolong the pavement life.

'I was highly impressed by the speed and quality of the ARS installation operation. The CompoGrid treated areas in the tunnel are still crack free in April 2016.'

Andy Goodwin
Project Manager for Costains

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