



CLIENT Carillion
 CONSULTANTS Halcrow
 LOCATION Gatwick Airport
 Northern Runway
 CONTRACTOR Aggregate Industries
 QUANTITY 26,000m²
 PRODUCT GlasGrid® CG100
 GlasGrid® CG50
 DATE 1 September 2011 -
 2 December 2011

KEY OUTCOMES

- Cost** Reduction in reactive maintenance costs through genuine layers of strength
- Efficiency** Keeping the UK moving with increased air traffic due to more efficient runways
- Revenue** Increase in revenue due to less down time of runways which will stand the test of time
- Growth** Injecting growth into the economy and employment with end to end solutions
- Time** That can be better spent driving forward development with time tested methods
- Trust** Building trust in reliability with evidence based performance

PRODUCT SPECIFICATION

GlasGrid® CG100

Tensile strength	115 x 115 +/- 15 kN/m
Melting Point Coating	> 232° C
Melting Point Glass	> 820° C
Grid Size	25 x 25 mm
Mass per Unit Area	542 g/m ²
Roll Length	60 m
Roll Width	1.5 m

GlasGrid® CG50

Tensile strength	55 x 55 +/- 5 kN/m
Melting Point Coating	> 232° C
Melting Point Glass	> 820° C
Grid Size	25 x 25 mm
Mass per Unit Area	340 g/m ²
Roll Length	95 m
Roll Width	1.5 m



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ROUTE PLANNER

START SEPTEMBER 2011

Gatwick airport had a problem of reflective cracking on the runway.

FIRST STEP

Teaming up with Aggregate Industries.

HIT THE ROAD

A detailed approach to runway condition and product trials.

MOVING FORWARD

Reinforcements using GlasGrid carried out over 20 shifts.

STAYING ON TRACK

Special attention to detailed repairs using GlasGrid CG100.

FINISH

A new runway with long-term strength and increased load bearing capability. Ensuring safer and smoother runway for take offs and landings.

FINISH DECEMBER 2011

START

The UK's second largest airport is Gatwick. It's also the most efficient single runway airport in the world, serving 200+ destinations in 90 countries for over 40 million passengers. They had a problem with the northern runway, which had been showing signs of reflective cracking. They were looking for the most cost-effective solution for strengthening and improving the airfield surfacing and delaying the development of reflection cracking in the pavement. We knew exactly what they needed.

ROUTE

Things got rolling during the summer of 2011, when Carillion won the contract for refurbishment of the Northern Runway at Gatwick Airport. Aggregate Industries were employed as the surfacing contractor and Asphalt Reinforcement Services were chosen to install GlasGrid® CG Reinforcement.

Following trials of the grid installation with Marshall Asphalt surfacing and base materials, the reinforcement installation took 20 shifts. The main works involved installing GlasGrid® CG50 to a milled concrete surface, using 200 pen straight run bitumen at 1.1 l/m. This was carried out using purpose built applicators. It was then overlaid with binder and a surface course. Some areas needed a detailed repair and GlasGrid® CG100 was used under the binder layer. Our fully trained team ensured the work was carried out to the highest standards - safety was paramount.

FINISH / DESTINATION

We had the ideal solution needed for a busy runway. 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. It permits thinner pavement design, making it cost effective whilst reducing the carbon footprint.

'We had no issues with the GlasGrid installation and Asphalt Reinforcement services' installation team performed very well. The product has performed well and in April 2016 remains crack free.'

Richard Trinick
Special Project Manager at Carillion

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