



SUSTAINABLE INFRASTRUCTURE INVESTMENT

Although the UK is currently embarking on a major programme of investment on our trunk road and motorway system, policy-makers and budget holders are understandably looking for funds to be spent as prudently as possible – value for money, sustainability and longevity are key considerations, along with minimal disruption to the transport network.

In short, customers are looking for faster and more durable repairs that emphasise whole-life value of the new pavement. This includes reducing delays to motorists and the potential for accidents as well as the actual cost of the materials and repairs.

An excellent solution is the GlasGrid® reinforcement systems family of products, available from Asphalt Reinforcement Services.

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**THE MOST COST EFFECTIVE
WAY OF MANAGING ROAD
MAINTENANCE IS TO HAVE A
WELL-MANAGED LONG-TERM
STRATEGY WHICH INCLUDES
EARLY INTERVENTION FOR
REPAIRS. (NHT RESEARCH)**



GLASGRID® — THE SUSTAINABLE SOLUTION

Cracking in the road surface is a significant problem and a major drain on public funds. It reduces the efficiency of the road transport system and increases costs within the commercial supply chain. Reflective cracks destroy surface continuity, decrease structural strength, and allow water to enter sub-layers. Therefore, the problems that weakened the old pavement are extended up into the new overlay.

The cracking in the old overlay surface is due to the inability of the overlay to withstand shear and tensile stresses created by movements of the underlying pavement. This movement may be caused by either traffic loading (tyre pressure) or by thermal loading (expansion and contraction). Fatigue-associated cracking occurs when shear and bending forces due to heavy traffic loading create stresses that exceed the fracture strength of the asphalt overlay. This is a structural stability problem.

When it comes to asphalt pavements, true sustainability is all about finding solutions that maximise the quality and durability of the pavement surface, extending its useful life, while optimising the use of materials and reducing the complexity and length of the maintenance process – all while working within tough budgetary limits.

It's a tough ask, but one that is well within the capabilities of the GlasGrid® reinforcement systems family of products available from Asphalt Reinforcement Services.

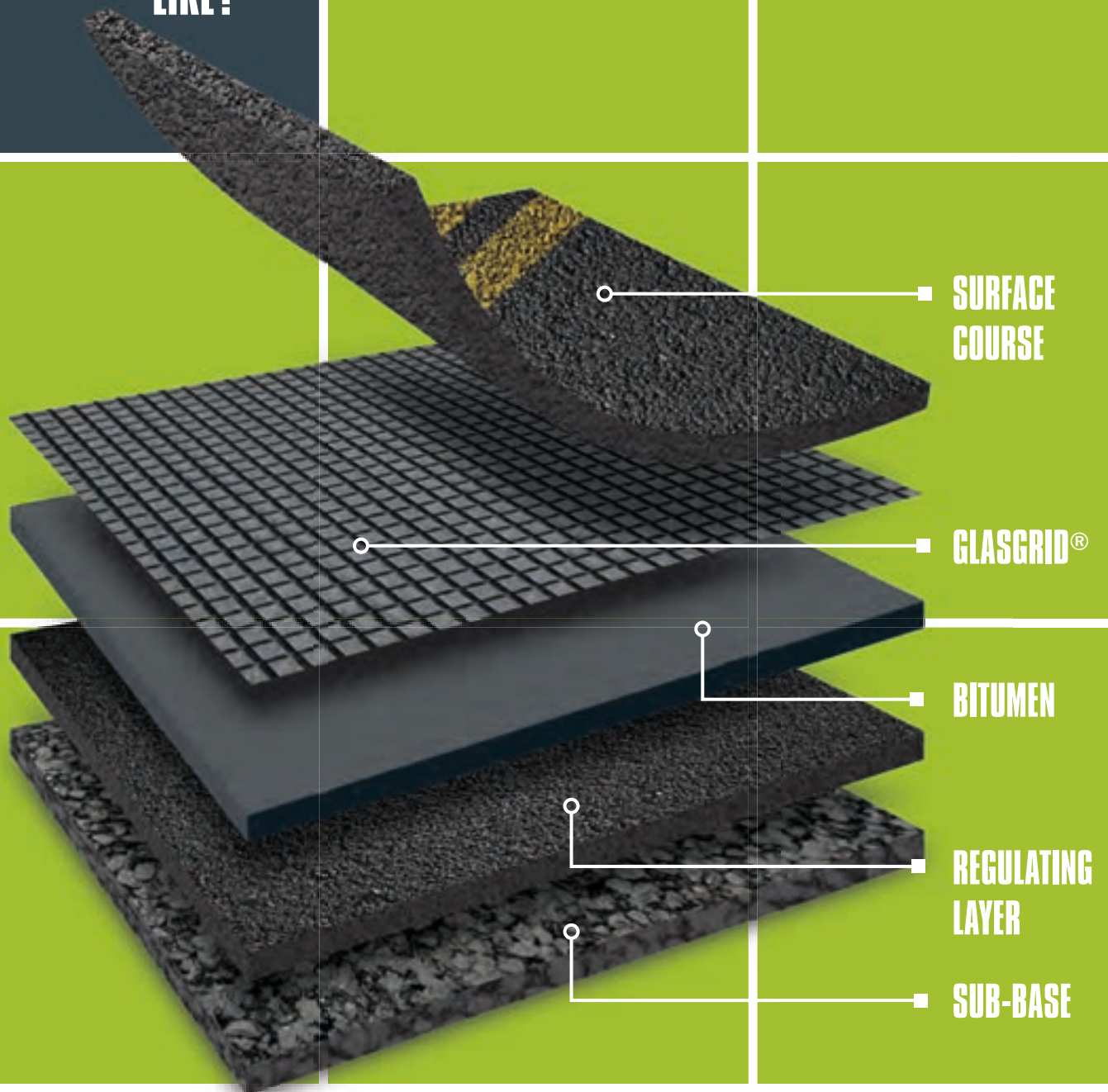
In terms of whole-life value GlasGrid® is:

- Advanced technology
- Quicker and easier to lay, causing fewer delays
- Longer lasting
- More sustainable
- Cost effective

There is a specialist GlasGrid® solution for each situation.



WHAT DOES GLASGRID® LOOK LIKE?



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GLASGRID® IMPROVES THE STRENGTH AND EXTENDS THE USEFUL LIFE OF ASPHALT INLAYS/OVERLAYS, EVEN IN THE MOST CHALLENGING SITUATIONS.



HOW DOES GLASGRID® WORK?


GlasGrid® paving reinforcement grids are manufactured from fibreglass strands, embedded in a specially formulated polymer resin. This matrix provides an exceptionally strong reinforcement system beneath the pavement surface.

GlasGrid's® innovative design sets it apart from other reinforcement products by greatly reducing shearing within the fibres to maintain integral strength.

Low elongation is an important factor in manufactured products that absorb stress. GlasGrid® has been rigorously tested in the laboratory and in the field – in independent studies it has been found to provide outstanding results. Its excellent bonding capabilities, high tensile strength and the ability to provide an effective moisture barrier mean that GlasGrid® is the performance product of choice for demanding applications.



WHERE CAN I USE GLASGRID®?

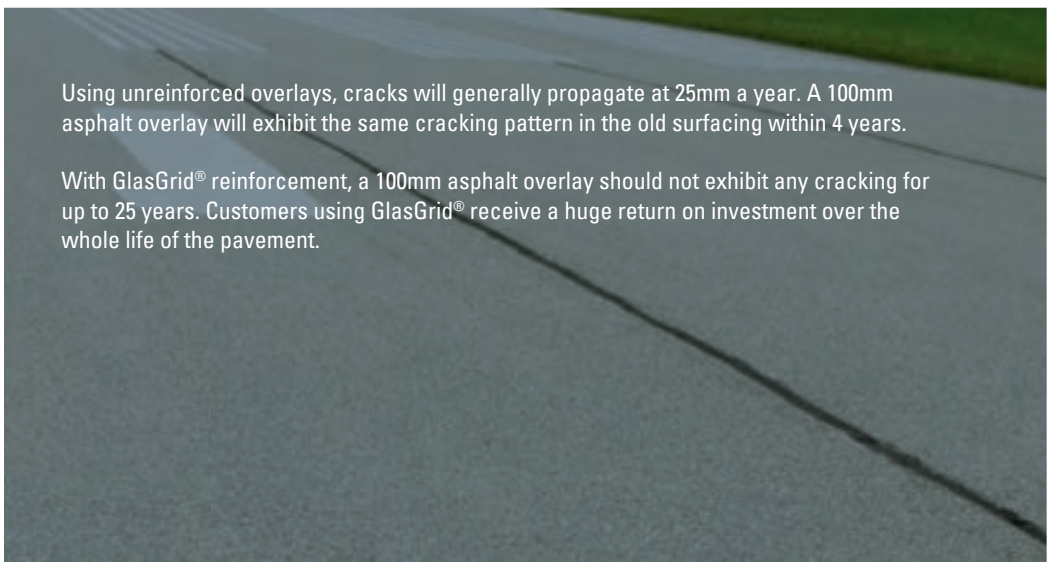


GlasGrid® is suitable for a wide variety of pavement applications, including highways, airfields, container port terminals and car parks. The range includes specialised products designed to improve the strength and extend the useful life of different types of surfaces even in the most challenging situations:

- Regulated surfaces – GlasGrid® GG (self-adhesive)
- Milled/concrete surfaces – GlasGrid® CompoGrid (non-woven paving fabric)
- Bridge decks – GlasGrid® Indicator Mesh
- All-in-one Detailed Repair System – GlasGrid® Rapid Repair PG100
- Waterproofing – GlasPave
- Premium system – GridSeal®



THE GLASGRID® ADVANTAGE



Using unreinforced overlays, cracks will generally propagate at 25mm a year. A 100mm asphalt overlay will exhibit the same cracking pattern in the old surfacing within 4 years.

With GlasGrid® reinforcement, a 100mm asphalt overlay should not exhibit any cracking for up to 25 years. Customers using GlasGrid® receive a huge return on investment over the whole life of the pavement.

COMPREHENSIVE SERVICE

We can help with design and technical solutions, using our pavement design software tool ARCADESO® (Anti-Reflective Cracking Design Software).

You may choose to install our products yourself, but why not take advantage of our in-house ISO 9001:2008 accredited installation service, using our specialist plant equipment we are able to offer a range of surface dressings. Our team is supported by a network of supply chain operators which guarantees that we can deliver on all projects – irrespective of size – on a national basis.

We can also help your team with their continuing professional development, through our programme of technical CPD presentations.



ACCREDITATION AND CERTIFICATION

Our operatives are QCF NVQ qualified and fully compliant with National Highway Sector scheme 13 (NHSS) accredited by BSI.

Asphalt Reinforcement Services policy is to maintain a safe working environment for all employees, contractors, and the general public at all times. Ensuring high-quality work reduces remedial costs and public disruption, and develops a sense of pride in the workplace.

Sustainability is paramount to us. Durability and minimal whole-life costs with the least public disruption is our goal.

We are accredited to the following standards:

- GlasGrid® CE Marking Certificate
- BSI/ISO 9001:2008 Quality Management Certificate
- CHAS – Contractors Health and Safety Assessment Scheme
- SMAS – Workplace Contractor Certificate
- Health and Safety Certification



WHY ASPHALT REINFORCEMENT SERVICES?

SUSTAINABLE

We are in the business of sustainable pavement solutions – delivering a whole-life approach that brings significant improvements in value to every project. We take environmental protection very seriously: our solutions can be reused and recycled at the end of their life.



ADVANCED TECHNOLOGY

As exclusive UK distributors of the technically advanced GlasGrid® systems, manufactured by ADFORS Saint-Gobain, we are proud to be able to deliver a wide range of proven pavement reinforcing solutions, along with the essential technical advice and hands-on support you need.

SAFE

We put the Health and Safety of the general public, contractors and our employees first at all times.

RELIABLE

Our consistent commitment to high-quality delivery and outcomes reduces remedial costs and public disruption.

QUALIFIED

Asphalt Reinforcement Services was the first geosynthetic installer in the UK with QCF NVQ qualified operatives fully compliant with NHSS13 accredited by BSI.

EXCELLENT SERVICE

Our customers choose Asphalt Reinforcement Services for our extensive knowledge, responsiveness and consistently high-quality service.

Asphalt Reinforcement Services are able to provide technical advice and solutions to suit all specifications. Please contact us to talk to one of our technical experts:



THE PAVEMENT PERFORMANCE SPECIALISTS

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