

# Innovative Products for Airports

GLASGRID®

Pavement Reinforcement System

## Saint-Gobain ADFORS

For more than 50 years, Saint-Gobain ADFORS has been designing and producing innovative textile solutions for reinforcement in the habitat and industrial markets. Saint-Gobain ADFORS benefits from a unique position: a strong expertise in fiberglass technology and an extended knowledge in weaving and coating leads to a wide offering of reinforcement fabrics. We are always working to develop custom-made solutions and remain strongly invested in ensuring the competitiveness of our customers and supporting their growth.

Saint-Gobain ADFORS is proud to produce its full line of reinforcement solutions in its U.S.-based manufacturing facilities, located 50 miles from our American headquarters, in Albion, NY. This facility is registered for the ISO 9001:2008 certification for quality and the ISO 14001:2004 certification for environmentally friendly manufacturing processes.

## The Saint-Gobain Group

Saint-Gobain ADFORS's parent company, Saint-Gobain, is a world leader in the habitat and construction markets. It designs, manufactures and distributes building materials and other industrial products, providing innovative solutions to meet the growing demand for energy efficiency and environmental protection.

Learn more about how GlasGrid Pavement Reinforcement System products can increase the life of your paving projects.

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GlasGrid is manufactured at an ISO 9001:2008 registered facility of Saint-Gobain ADFORS. GlasGrid is a registered trademark of SAINT-GOBAIN ADFORS. Canadian Patent 1240873/1338347. European Patents WO 2009/021040, WO 2009/021046, WO 2009/021051. Japanese Patent 2611064. Additional patents pending.  
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The Hidden Strength in the Runway

Stronger ideas for a sustainable world

 **ADFORS**  
SAINT-GOBAIN

## GlasGrid® Family of Products



The open aperture design of GlasGrid® features fiberglass strands coated with an elastomeric polymer, which promotes aggregate interlock between paving courses and greatly decreases shear potential usually found with other paving fabrics. Installing GlasGrid is easy, postpones the need for complete reconstruction and helps lower maintenance costs.



GlasGrid® TF (Tack Film) contains a patent-pending, highly engineered film that offers the benefits of tack coat without all the inherent problems. The fiberglass grid provides protection against reflective cracking, while the tack film enhances performance of the overlay, resulting in extended life.



GlasGrid® CG (CompoGrid) products contain a non-woven fabric layer that is saturated with bitumen, which provides an effective moisture barrier, as well as additional pavement protection.



GlasGrid® GP (GlasPave) is made from a unique fiberglass scrim embedded between two lightweight polyester geotextiles. It is particularly effective for waterproofing and requires 50% less hot asphalt cement for saturation than conventional paving fabrics, reducing system costs and minimizing carbon footprint.



## Extend the life of airport pavement, with fewer delays

Traffic loading, age hardening and temperature cycling all cause pavement cracking. GlasGrid® Paving Reinforcement combines strength and elasticity to help arrest this cycle of deterioration. This unique product is helping airports around the world reduce their runway, apron and parking lot maintenance costs by helping to prevent the advance of reflective cracking.

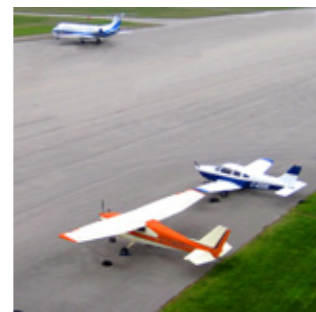
GlasGrid works by reinforcing asphalt concrete overlays in pavement construction. The fiberglass grid is “sandwiched” between the leveling and surface courses of asphalt, and helps retard reflective cracking by a factor of 2 to 3 times by turning crack stresses horizontally to dissipate the stress.

## Features and benefits of GlasGrid reinforcement products

- Extend pavement life by up to 300%
- Lower maintenance costs
- Offer quick, easy installation
- Are completely recyclable
- Provide excellent milling performance



Before



Proven effective 19 years later

## Proven performance worldwide for more than 20 years

### Heathrow International Airport London, UK

**Project:** Pink Elephant Car Park  
**Product:** GlasGrid® 8550  
**Quantity:** 45,000 m<sup>2</sup>  
**Installation date:** June 2005

#### Overlay design:

40 mm surface course  
GlasGrid® 8550 + fixing coat  
30 mm leveling course  
Existing PCC panels

#### Project details:

At Heathrow Airport in London, the PCC pavement of an existing taxiway needed to be converted into an asphalt paved parking lot. The budget was tight, but the client wanted to prevent reflective cracking to maintain the visual conditions and prevent the detrimental effect of moisture ingress in the structure. Using GlasGrid and a fixing coat of Sealoflex® polymer modified bitumen, a limited overlay thickness was provided. Inspection of the project in 2009 showed that this solution was very effective in addressing reflective cracking, as only one crack had reflected.

Sealoflex is a registered trademark of Sealoflex, Inc.



### Atatürk International Airport Istanbul, Turkey

**Project:** Atatürk International Airport Runway Rehabilitation  
**Product:** GlasGrid® 8501  
**Quantity:** 300,000 m<sup>2</sup>  
**Installation date:** May 2010

#### Overlay design:

4 cm SMA-19 mm nominal  
6 cm HMA-19 mm nominal  
6 cm HMA-19 mm nominal  
GlasGrid® 8501  
10 cm CRL-19 mm nominal

#### Project details:

A major overall reinforcement and expansion of the runway, which included significant volumes of fill to correct the pavement profile, needed to be completed. The old PCC was removed and reinstated with GlasGrid reinforced ACC. The result was a longer and wider runway that has the ability to handle heavier aircraft loadings.

Visit [glasgrid.com](http://glasgrid.com) for a complete list of airport project profiles.

