

Paving Reinforcement Selection Guide



GlasGrid® paving reinforcement products have been installed worldwide, offering proven performance in a variety of applications and climates.

Saint-Gobain ADFORS is an industry leader in the manufacture and distribution of a wide range of reinforcement fabrics. With manufacturing plants located around the world, Saint-Gobain ADFORS is your reliable source for cost-effective materials and creative solutions that help you meet the unique challenges of your industry.

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

www.glasgrid.com
glasgrid@saint-gobain.com

www.sg-adfors.com

SAINT-GOBAIN ADFORS America
1795 Baseline Road
Grand Island, NY 14072
USA
Tel: (+1) 888-549-7667
Fax: (+1) 716-775-3902



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GlasGrid products are manufactured at an ISO 9001:2008 registered facility of Saint-Gobain ADFORS. GlasGrid is a registered trademark of SAINT-GOBAIN ADFORS. U.S. Patent 5393559. 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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A Broad Range of Solutions
for Any Application

Stronger ideas for a sustainable world



The GlasGrid® Family of Products

The GlasGrid® product line offers several styles of pavement reinforcement grids designed to reinforce asphalt concrete overlays. They retard reflective cracking by a factor of two to three times by turning crack stresses horizontally to dissipate the stress.

GlasGrid extends pavement life by up to 300% and has been proven effective in all climates and geographic areas, performing equally well in desert conditions and in near arctic regions that are subject to intense cold and seasonal temperature fluctuations.

Route Type	Traffic [ESALS]	Waterproofing Required or Application to Milled Surface		Alligator Cracking (Aging)	Block Cracking Cracks < 6 mm	Block Cracking Cracks > 6 mm	PCC Joint Reflective Cracks	Thermal Cracking Warm Region	Thermal Cracking Cold Region	Lane Widening Cracks (Sand Subgrade)	Lane Widening Cracks (Clay Subgrade)
Product Is Applied:		Full Width	Detail Repair	Full Width			Full Width or Detail Repair		Detail Repair		
		GlasGrid® GP and GlasGrid® CG		GlasGrid® GG, GlasGrid® TF ² and GlasGrid® GP					GlasGrid® GG and GlasGrid® GP		
Residential Streets, Minor Country Roads, Golf Cart Paths, Parking Lots, Tennis Courts, Bike Trails	< 300K < 1 % Heavies	GP25 GP50 CG50		GP25 GP50 GG50	GP25 GP50 GG50	GP25 GP50 TF100	TF100 GG50	GP25 GP50 TF100 GG50	GG200	GP25 GP50 GG50 GG100	GP25 GP50 GG100
County, Regional or Municipal Connector Roads	300,000 – 1,000,000 1–5% Heavies	GP25 GP50 CG50 CG100	CG200	GP25 GP50 GG50	GP25 GP50 TF100 GG50	TF100	TF100 GG200	GG50 GG200	GG200	GG100 GG200	GG100 GG200
Interstate Highways or Inter-Urban Roads	> 1M > 5% Heavies	GP25 GP50 CG50 CG100	CG200	TF100 GG50	TF100 GG50	TF100	GG200	GG50 GG200	GG200	GG100 GG200	GG200
Airports – Private / Municipal	General Aviation Traffic	GP25 GP50 CG50 CG100	CG200	GP25 GP50 TF100 GG50	GP25 GP50 TF100 GG50	TF100	GG200	TF100 GG50 GG200	GG200	GG100 GG200	GG200
Airports – Regional / International	Commercial Traffic	CG50 CG100	CG200	TF100 GG50	TF100 GG200	TF100 GG200	GG200	GG200	GG200	GG200	GG200
Industrial Ports or Intermodal Facilities	Axle Loads > 20kip	CG50 CG100	CG200	TF100	TF100 GG200	TF100 GG200	GG200	GG200	GG200	GG200	GG200

GG50 includes GG8550, GG100 includes GG8501 and GG8511, GG200 includes GG8502 and GG8512, TF100 includes GG8501TF and GG8511TF.
¹ Section 1, "Distresses for Pavements with Asphalt Concrete Surfaces," *Distress Identification Manual for the Long-Term Pavement Performance Program*, Federal Highway Administration, Publication No. FHWA RD-03-031, June 2003. To access this document online go to: <http://www.tfhrcc.gov/pavement/ltpp/reports/03031/index.htm>
² GlasGrid® TF (Tack Film), a film tack coat is bonded to the GlasGrid® and can be used for applications with fresh leveling course. Available in TF100 for full width coverage.

GLASGRID®

GG

Pavement Reinforcement System

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

Complete Reinforcement System

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

Composite Reinforcement Solution

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

Waterproofing Paving Mat

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.