

Choose the Pavement Interlayer System That is Right for You



The GlasGrid® Pavement Reinforcement System provides additional support to resist the migration of reflective cracks in roadway applications thus reducing maintenance and life cycle costs. The GlasGrid System has proven to be effective in every geographical area and climate – from desert environments to near arctic conditions. Manufactured by Saint-Gobain Technical Fabrics in Albion, New York, this interlayer system is composed of a series of fiberglass strands coated with an elastomeric polymer and formed into a grid structure. Each strand has a remarkably high tensile strength and high modulus of elasticity at low elongation; this is particularly important as asphalt concrete typically cracks at low strains. This combination makes GlasGrid stronger than steel, pound for pound.



A hybrid geosynthetic paving material, GlasPave25 is a unique combination of fiberglass mesh embedded into high performance polyester mats. The non-woven matrix structure of GlasPave25 allows for an asphalt binder to penetrate and fill voids within the fabric to limit moisture infiltration into a pavement structure. The fiberglass matrix in a GlasPave25 paving mat provides significantly greater tensile strength at low strain when compared to conventional paving fabrics and other paving mats. This higher strength helps extend pavement life by delaying reflective cracking, which is a common contributor to costly repairs and the eventual failure of asphalt overlay applications. Even in the harshest environments, GlasPave25 can provide significant improvement to the service life of the overlay.



Selection of Geosynthetic Pavement Interlayers

Geosynthetic interlayers are a cost-effective and easy solution to extend the service life of asphalt overlay applications. Tensar International Corporation offers two geosynthetic interlayer systems to meet a variety of needs of road asset owners and designers to improve the performance of asphalt layers in new construction and for pavement rehabilitation. The stress absorbing GlasGrid® Pavement Reinforcement System offers superior stiffness characteristics along with an open aperture to ensure through-hole bonding of asphalt layers. This unique combination of features makes GlasGrid the optimum choice for heavy- and medium-duty overlay projects in terms of performance and total life-cycle cost savings. The strain absorbing GlasPave™ Waterproofing Paving Mat combines the waterproofing ability of a polyester fabric with the high modulus of fiberglass netting to yield a cost-effective reflective crack mitigation solution for light- to medium-duty pavement overlay projects.

Proper selection of a pavement interlayer is critical to ensure the asphalt overlay service life is realized for the intended design. This selection guide offers assistance for choosing the appropriate interlayer system depending upon:

- Pavement Type
- Anticipated Traffic
- Need for Waterproofing
- Existing Distress Type

In all cases, a minimum of 1.5 in. of compacted asphalt must be installed on top of the interlayer to carry the design traffic. In projects where rut sensitive asphalt mixes are likely, or there are areas with high potential for traffic induced rutting, then the minimum compacted overlay thickness must be increased to 2 in.

Two types of interlayers are available to meet your requirements:

GlasPave25 Waterproofing Paving Mat



GlasPave25 is available in:

- Roll lengths of 750 ft and 3,000 ft
- Roll widths of 46 in. or 78.75 in.

GlasGrid Pavement Reinforcement System



Product	Aperture Size	Roll Length
GG8550	1 in. x 1 in. (25 mm x 25 mm)	492 ft (150 m)
GG8501	0.5 in. x 0.5 in. (12.5 mm x 12.5 mm)	327 ft (100 m)
GG8511	1 in. x 1 in. (25 mm x 25 mm)	327 ft (100 m)
GG8502	0.5 in. x 0.5 in. (12.5 mm x 12.5 mm)	197 ft (60 m)
GG8512	1 in. x 0.75 in. (25 mm x 19 mm)	197 ft (60 m)

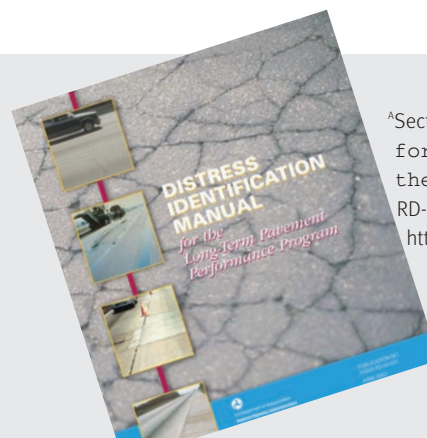
GLASGRID® AND GLASPAVE™ PRODUCT SELECTION GUIDE

Legend:

- 💧 Moisture barrier for fatigued and cracked asphalt
- ☐ Crack pattern is typically found full width
- Load transfer efficiency > 60% using falling weight deflectometer (FWD)
- ◆ Southern N. America, S. America
- Northern N. America, Canada, including areas with extreme daily thermal fluctuations
- ⚡ Time to achieve 90% consolidation < 6 months
- ★ Time to achieve 90% consolidation > 6 months

This guide is intended to offer general assistance in product selection. The interlayer types have been selected for a severity rating of the distress types referenced in this guide as only “Fair to Poor” and not “Very Poor.”[^] The extent of the distress types is considered to be 75% of full coverage. Tensar International Corporation highly recommends the user contact their local Tensar Representative or call 800-TENSAR-1 for more detailed information.

Route Type	Traffic [ESALS]	Waterproofing Required 💧	Product Selection Table by Crack Distress Type [^]							
			Alligator Cracking (Aging) ☐	Block Cracking Cracks < ¼ in.	Block Cracking Cracks > ¼ in.	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	Full Width			Full Width or Detail Repair	Detail Repair			
Tennis Courts, Bike Trails, Golf Cart Paths, Residential Streets, Parking Lots, Minor Country Roads	< 300K < 1 % Heavies	GlasPave25	GlasPave25 GG8550	GlasPave25 GG8550	GlasPave25 GG8501 GG8511	GG8501 GG8511	GG8501 GG8511	GG8502 GG8512	GG8501 GG8511 GG8502 GG8512	GG8501 GG8511 GG8502 GG8512
County or Municipal Connector Roads	300,000 – 1,000,000 1–5% Heavies	GlasPave25	GlasPave25	GlasPave25 GG8501 GG8511	GG8501 GG8511	GG8502 GG8512	GG8501 GG8511 GG8502 GG8512	GG8502 GG8512	GG8501 GG8511 GG8502 GG8512	GG8501 GG8511 GG8502 GG8512
Inter-Urban Roads or Interstate Highways	> 1M > 5% Heavies	GlasPave25	GG8501 GG8511	GG8501 GG8511	GG8501 GG8511	GG8502 GG8512	GG8502 GG8512	GG8502 GG8512	GG8501 GG8511 GG8502 GG8512	GG8502 GG8512
Airports – Private/Municipal	General Aviation Traffic	GlasPave25	GlasPave25 GG8501 GG8511	GlasPave25 GG8501 GG8511	GG8501 GG8511	GG8502 GG8512	GG8501 GG8511 GG8502 GG8512	GG8502 GG8512	GG8501 GG8511 GG8502 GG8512	GG8502 GG8512
Airports – Regional/International	Commercial Traffic	GlasPave25	GG8501 GG8511	GG8501 GG8511 GG8502 GG8512	GG8501 GG8511 GG8502 GG8512	GG8502 GG8512	GG8502 GG8512	GG8502 GG8512	GG8502 GG8512	GG8502 GG8512
Industrial Ports or Intermodal Facilities	Axle Loads > 20kip	GlasPave25	GG8501 GG8511	GG8501 GG8511 GG8502 GG8512	GG8501 GG8511 GG8502 GG8512	GG8502 GG8512	GG8502 GG8512	GG8502 GG8512	GG8502 GG8512	GG8502 GG8512



[^]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.tfrc.gov/pavement/ltp/reports/03031/index.htm>



A  **tensar** Company

Tensar International Corporation
5883 Glenridge Drive, Suite 200
Atlanta, Georgia 30328

800-TENSAR-1
www.tensar-international.com

Distributed by:

©2008, Tensar International Corporation. GlasGrid® and GlasPave™ are trademarks of Saint-Gobain Technical Fabrics (SGTF). GlasGrid® and GlasPave™ are distributed in the United States of America, Canada and certain other countries by Tensar International Corporation (TIC). Inasmuch as SGTF and TIC have no control over installation design, installation workmanship, accessory materials, or conditions of application, SGTF and TIC do not warrant the performance or results of any installation or use of GlasPave™. This warranty disclaimer includes all implied warranties, statutory or otherwise, including the warranty of merchantability and of fitness for a particular purpose.

Exclusive distributor
in the Americas for:



GG_TRI_SELECT_5.08