

GlasGrid® GP Waterproofing Paving Mat

GLASGRID® GP

Waterproofing Paving Mat



Next-generation Paving Fabric

Stronger ideas for a sustainable world

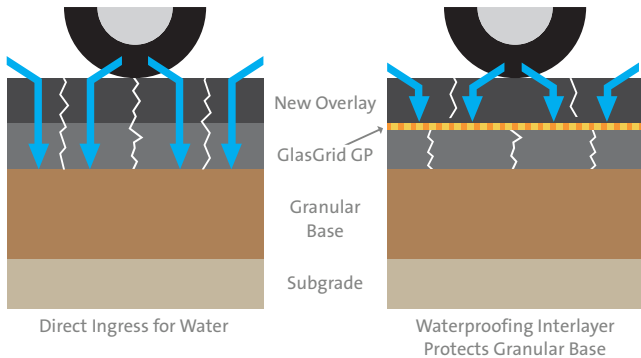


GlasGrid® GP extends pavement life and reduces project costs.

GlasGrid® GP (GlasPave) reduces the potential for thermal and stress-related cracks reflecting through to the surface of a new asphalt overlay. Compared to traditional methods, GlasGrid GP provides a much more cost-effective solution, and is 4-8 times stronger than traditional paving mats.

GlasGrid® GP is constructed of high strength, continuous fiberglass fibers, coated in a patent-pending elastomeric polymer and embedded between two spun bond polyester textiles. GlasGrid GP creates not only a strong and effective moisture-resistant membrane, but also a high-tensile strength product. It is resistant to rot, chemicals and mildew, is thermally stable, and does not shrink or change dimensions when exposed to hot mix asphalt.

GlasGrid GP Creates a Waterproofing Membrane



GlasGrid GP can be installed with traditional asphalt binders and requires 25% less hot asphalt cement to be saturated. Compared to traditional non-wovens, GlasGrid GP reduces your project's system costs as well as its carbon footprint.

GlasGrid GP interlayers have undergone third-party testing using the ASTM D5084, "Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter." Samples of GlasGrid GP were saturated with 0,15 gal/yd² of hot AC binder, using the guidelines set out in ASTM D6140. The asphalt-saturated materials were then tested in a permeameter, a tri-axial-type cell used for making hydraulic conductivity measurements. A confining pressure of 5 psi was used for the test. Results are shown in the table below.

Interlayer Type	Mass/Unit Area	Thickness	Asphalt Retention Rate	Coefficient of Permeability (cm/sec)
GlasGrid® GP25	135 g/sqm (4 oz/yd ²)	1,02 mm (0,04 in)	0,45 l/sqm (0,10 gal/yd ²)	2,8 x 10 ⁻¹¹
GlasGrid® GP50	237 g/sqm (7 oz/yd ²)	1,02 mm (0,04 in)	0,45 l/sqm (0,10 gal/yd ²)	3,2 x 10 ⁻¹¹

These results prove that the GlasGrid GP AC-saturated interlayer had an extremely low water permeability rate. Based on literature cited, a membrane, tested in this manner, will greatly enhance the waterproofing of a pavement if the permeability is less than 1 x 10⁻³ cm/sec.

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

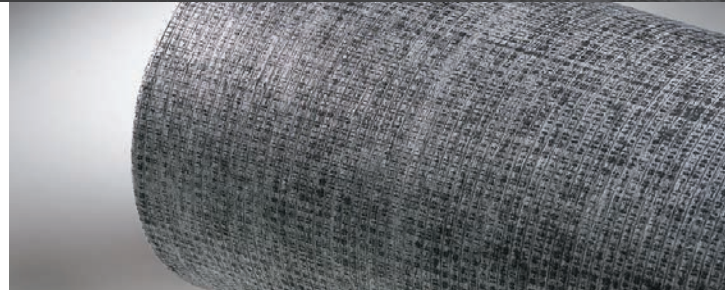
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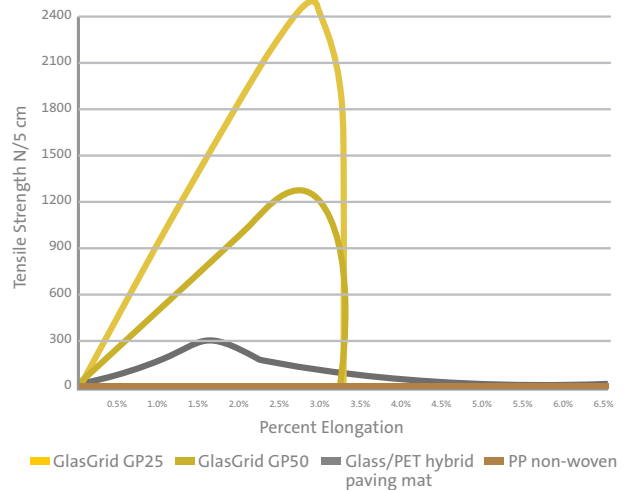


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Load vs. Elongation Curves Using ASTM D5035



Features and Benefits of GlasGrid GP:

- Easy to install and can be used on milled surfaces
- Higher tensile strength for delayed reflective cracking
- Strong waterproofing membrane
- Life cycle cost savings can be realized through reduced maintenance intervals
- No creep for reliable, long-term performance
- Lower level of asphalt binder required and smaller project carbon footprint make GlasGrid GP environmentally friendly
- Fully millable and recyclable (full NCAT report can be found at www.ncat.us/files/research-synopses/glasgave-rap.pdf)