

LPWFG WOVEN FIBERGLASS GEOGRID

Woven Fiberglass Geogrid is specifically designed for asphalt reinforcement. Its aperture size allows asphalt particles to penetrate the grid, achieving high interlock and providing effective bonding between the two asphalt lifts. The Polymer coating is used to ensure proper adhesion of the asphalt layers to the tack coat surface and to optimize the chemical compatibility between the fiberglass reinforcement and the pavement overlay, creating a solid bond.

The self-adhesive backing offers heat resistance and physical durability, with optimal modulus and aperture size. It ensures that the grid can effectively accept and distribute tensile stresses.

June 2026				
Woven Fiberglass Geogrid – LPWFG - 200				
	Rev ¹	Test Method	Unit	LPWFG-200
Material Properties	Grid Material	Woven Fiberglass Grid		
	Tensile Strength, MD/CD	ASTM D6637-01	kN/m	100 / 200
	Tensile Strength at 2% Strain, MD/CD	ASTM D6637-01	kN/m	80 / 160
	Tensile Strain at Ultimate / failure	ASTM D6637-01	MPa	73,000
	Young's Modulus / Elasticity Modulus ²	Calculated	mm	0.425
	Aperture Size ³ , MD/CD	Calculated	mm	12.5 / 12.5
	Mass per Unit Area	ASTM D5261	g/m ²	610
	Melting Point Glass	ASTM C 338	°C	>820
	Coating Material	Polymeric with Pressure sensitive self-adhesive backing		
	Melting Point Coating ⁵	ASTM D 276	°C	>250
	Mass Per Unit Area	ASTM D5261	g/m ²	570
	Roll Dimensions (m)	-	m	1.5 x 75

NOTES:

1. Unless indicated otherwise, values shown are Minimum Average Roll Values in accordance with ASTM D4759-02
2. Material Property Mean Value
3. Measured Centre to Centre Geometric Properties are nominal values and may vary
4. Alternative Aperture Size 25mm x 25mm available on special order – please contact Layfield for availability
5. Melting Point of the Coating exceeds the application temperature of the asphalt

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