

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 - 100		
Rev ¹	Test Method	Unit	LPWFG-100	
Material Properties	Grid Material	Woven Fiberglass Grid		
	Tensile Strength, MD/CD	ASTM D6637-01	kN/m	100 / 100
	Tensile Strength at 2% Strain, MD/CD	ASTM D6637-01	kN/m	98.7 / 98.7
	Tensile Strain at Ultimate / failure	ASTM D6637-01	kN/m	< 3.0 % (+/- 0.5%)
	Secant Stiffness EA @ 2% Strain	ASTM D 6637	kN/m	4,935 / 4,935
	Young's Modulus / Elasticity Modulus ²		MPa	73,000
	Aperture Size ³ , MD/CD	Measured	mm	(25 / 25) ⁴
	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	420	
Roll Dimensions (m)	-	m	1.5 x 100	

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 12.5mm x 12.5mm available on special order – please contact Layfield for availability
5. Melting Point of Coating exceeds the application temperature of the asphalt

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