

G-Grid® FG series are warp knitted by fiberglass yarns as per desired mesh sizes and strength, and coated with bitumen to provide a good bond with the asphalt layers. It can strengthen the asphalt layer, extend the service life of pavement layers and decrease the occurrence rate of reflective cracking under cyclic traffic load. The tensile strengths of Grid® fiberglass geogrids are from 25kN to 300kN at MD directions.

Features: Cost-effective, high tensile strength, high and low temperature resistance;

Applications: Road maintenance/repair jobs, road pavements, asphalt pavements, Special for the reinforcement of paved surfaces to prevent reflective cracking and reinforce asphalt pavements.

Typical Properties	Value Type	Unit	FGU 25/25	FGU 30/30	FGU 40/30	FGU 50/30	FGU 80/30	FGU 100/30	FGU 125/30	FGU 150/30	FGU 200/30	FGU 300/30
Polymer			Glass Fibre / black									
Coating			SBR / PVC									
Mechanical Properties												
Tensile strength,MD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	25	30	40	50	80	100	125	150	200	300
Tensile strength,CD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	25	30	30	30	30	30	30	30	30	30
Elongation, MD / CD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	%	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4
Tensile strength at 2% elongation, MD [ASTM D4595 or EN ISO 10319 / ASTM D6637]	Typical	kN/m	20	24	32	40	60	75	94	113	150	225
LTDS Tensile strength @ 120 years design life [ASTM D 4595]	Typical	kN/m	16	20	26	33	52	65	81	98	130	195
Reduction factor - creep 120 years [ASTM D 4595]	Typical	-	≤1.43	≤1.43	≤1.43	≤1.43	≤1.43	≤1.43	≤1.43	≤1.43	≤1.43	≤1.43
Installation damage resistance [ASTM D5818 or ISO 10722]	Typical	%	≥ 98	≥ 98	≥ 98	≥ 98	≥ 98	≥ 98	≥ 98	≥ 98	≥ 98	≥ 98
Width Deviation	Typical	%	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0
Aperture Dimensions. MD x CD	Typical	mm	12 ≤MD ≤ 450 , 12 ≤ CD ≤ 450									
Melting Point [ASTM D276-00a]	Typical	℃	800	800	800	800	800	800	800	800	800	800
UV-resistance [ASTM D 4355(500 hrs)]	Typical	%	≥95	≥95	≥95	≥95	≥95	≥95	≥95	≥95	≥95	≥95
Physical Identification Properties												
Grade	Typical	g/m²	FGU 25/25	FGU 30/30	FGU 40/30	FGU 50/30	FGU 80/30	FGU 100/30	FGU 125/30	FGU 150/30	FGU 200/30	FGU 300/30
Roll Width	Typical	m(<=)	According to customization									
Roll Length	Typical	m	According to customization									
Approx Load Q'ty / 40' HQ		Rolls(>=)	-	-	-	-	-	-	-	-	-	-
		Sq. m	-	-	-	-	-	-	-	-	-	-

Above the values listed are the average values, the data was obtained from in-house test laboratory, National test institutes and international test institutes. GeoTrans keeps the right of data changes and the final explanation right. Liability Exclusion: This publication should not be construed as engineering advice. While information contained here is accurate to the best of our knowledge, GeoTrans does not warrant its accuracy or completeness. The only warranty made by GeoTrans for its products is set forth in our Product Test Report accompanies our shipment of the products, or such other written warranty as may be agreed by GeoTrans and customer. GeoTrans specifically disclaims all other warranties express or implied, including without agreed by GeoTrans and customer. GeoTrans specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or rising from provision of samples, a course of dealing or usage of trade.



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