

TechGrid – TGU - 100

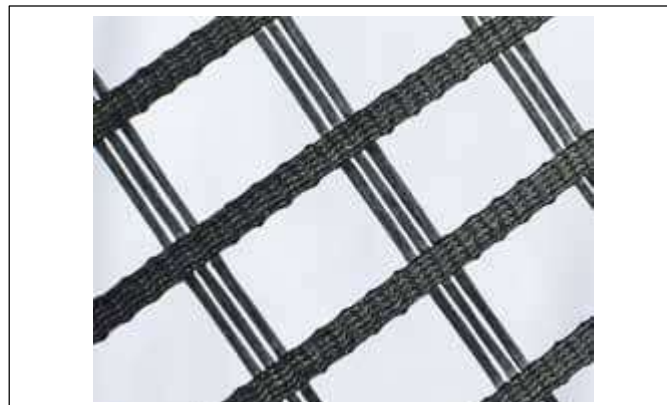
PRODUCT DATASHEET



TechGrid U series are uniaxial knitted polyester geogrids, with a polymeric coating engineered for demanding soil reinforcement applications. The high tenacity polyester yarns are formed into a dimensionally stable grid structure with uniform apertures, using an advanced weft insertion warp knitting process, which is then given a tough and durable polymeric coating to enhance dimensional stability, resistance to installation damage and durability.

Physical Properties:	Units		TGU-100	Test Method
Composition	Woven filament, high tenacity, polyester yarns			
Tensile Strength (Ultimate)¹	MD	kN/m	≥ 100	EN-ISO-10319
	CD	kN/m	≥ 30	
Elongation (@ Ultimate ± 2%)	MD	%	10	EN-ISO-10319
	CD	%	10	
Reduction Factor (RF) and factor of safety (f_s) for calculation of MD Long-term Design Strength (LTDS):				
Creep (RF_{CR}) – 120 years design life at 20°C temperature			1.45	EN-ISO
Creep Limited Strength		kN/m	69.0	
Installation damage (RF_{ID})	Sand/silt/clay		1.02	
Partial Factor - environmental effect, pH = 4 to 9			1.07	
LTDS – 120 YEARS: Sand/silt/clay for pH = 5 to 9		kN/m	63.2	
Aperture size (Tolerance ± 2mm)	30mm x 23mm			
Roll Width x Length	5.1m x 100m			

1. Average (typical) Value obtained in accredited laboratories.



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