

TechGrid – TGC B 105

PRODUCT DATASHEET



TechGrid TGC series are knitted non-woven geotextile composites, incorporating high tenacity yarns in both directions. The high tenacity polyester yarns with low creep strain perform the reinforcement function, while the polypropylene needle punched non-woven geotextile provides both separation and drainage.

Physical Properties:	Units		TGC-105/105	Test Method
Composition	Knitted, high tenacity, polyester yarns			
¹ Tensile Strength (Ultimate)	MD/CD	kN/m	105	EN ISO-10319
Elongation @ Ultimate (±2)	MD/CD	%	10	
Tensile Strength @ 2% Strain	MD/CD	kN/m	18	
Tensile Strength @ 5% Strain	MD/CD	kN/m	45	
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			1.54	ASTM D 6992
Installation damage with yarn facing soil (RF _{ID})	Sand/silt/clay		1.02	
Durability (RF _{CH}), 120 years design life at 20°C temperature, pH = 4 to 8.9			1.10	
Weathering (RF _W)	To be covered in 1 day		1.00	
Factor of safety for extrapolation of data for 120 years (f _s)			1.00	
LTDS – 120 YEARS: Sand/silt/clay for pH = 4 to 8.9		kN/m	60.8	
Hydraulic Properties:				
Water Permeability Normal to the Plane (-25)	l/m ² /s		112.0	EN ISO-11058
Apparent Pore Opening Size	µm		150	EN ISO-12956
Standard Roll Dimensions:				
Roll Width x Length	5m x 100m			

1. Minimum Average Roll Value (MARV).



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