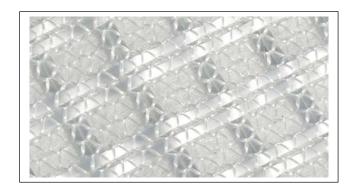
## TechGrid – TGC B 210



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- 210/210	Test Method	
Composition	Knitted, high tenacity, polyester yarns				
<sup>1</sup> Tensile Strength (Ultimate)	MD/CD	kN/m	210	- EN ISO-10319	
Elongation @ Ultimate (±2)	MD/CD	%	10		
Tensile Strength @ 2% Strain	MD/CD	kN/m	36		
Tensile Strength @ 5% Strain	MD/CD	kN/m	90		
Reduction Factor (RF) and factor of safety (f <sub>s</sub> ) for calculation of MD Long-term Design Strength (LTDS):					
Creep (RF <sub>CR</sub> ) − 120 years design life at 20°C temperature			1.54		
Installation damage with yarn facing soil (RF <sub>ID</sub> )	Sand/silt/clay		1.02		
Durability (RF <sub>CH</sub> ), 120 years design life at 20°C temperature, pH = 4 to 8.9			1.10	- ASTM D 6992	
Weathering (RFw)	To be covered in 1 day		1.00	ASTIVI D 0992	
Factor of safety for extrapolation of data for 120 years (f <sub>s</sub> )			1.00		
LTDS – 120 YEARS: Sand/silt/clay for pH = 4 to 8.9		kN/m	121.50		
Hydraulic Properties:					
Water Permeability Normal to the Plane (-25)	I/m²/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				

Minimum Average Roll Value (MARV).



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