



TerraDrain 121

TerraDrain 121 is a three-part prefabricated geocomposite drain, consisting of a formed polystyrene core covered on one side with a nonwoven needle-punched polypropylene filter fabric and a polymeric film on the back side of the core.. The fabric allows water to pass into the drain core while restricting the movement of soil particles that might clog the core. The core allows the water to flow to designated drainage exits. The polymeric film provides extra protection for and compatibility with softer waterproofing materials. **TerraDrain 121** is non-biodegradable and resistant to most soil chemicals, acids, and alkalis with a pH range of 3 to 12. **TerraDrain 121** is manufactured to meet or exceed the following requirements:

Property	Test Method	Value	Value
<i>Fabric Properties</i>			
Material		Polypropylene	Polypropylene
Tensile Strength	ASTM D-4632	110 lbs.	485 N
Tensile Elongation	ASTM D-4632	60%	60%
Puncture Strength	ASTM D-4833	65 lbs.	285 N
Mullen Burst Strength	ASTM D-3786	225 psi	1496 kPa
Trapezoid Tear Strength	ASTM D-4533	50 lbs.	220 N
AOS	ASTM D-4751	70 US Sieve	212 microns
Permeability	ASTM D-4491	.20 cm/sec	.20 cm/sec
Water Flow Rate	ASTM D-4491	150 gpm/ft ²	6110 l/min/m ²
UV Resistance	ASTM D-4355	70%	70%
(Strength retained @ 500 hours)			
<i>Core Properties</i>			
Material		Polystyrene	Polystyrene
Thickness		7/16 in	11 mm
Compressive Strength	ASTM D-1621 (mod.)	15,000 lbs/ft ²	732 kN/m ²
<i>Drain Properties</i>			
Flow Capacity	ASTM D-4716	16 gpm/ft of width	200 L/min/m of width

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