

# TerraDrain® Sheet 121

TerraDrain® sheet drains are constructed using a polymeric core with a nonwoven filter fabric bonded to one side. The filter fabric is designed to prevent soil intrusion while allowing water to freely enter the drain core, which provides an uninterrupted path for water to flow to designated drainage exits.

Property	Test Method	English	Metric
<b>FABRIC</b>			
Material <sup>1</sup>		PP	PP
Water Flow Rate	ASTM D4491	165 gpm/ft <sup>2</sup>	6724 Lpm/m <sup>2</sup>
Grab Tensile Strength	ASTM D4632	100 lbs	0.445 kN
CBR Puncture Resistance	ASTM D6241	275 lbs	1.22 kN
Apparent Opening Size	ASTM D4571	70 US Std. Sieve	0.210 mm
Grab Elongation	ASTM D4632	70 %	70 %
UV Resistance	ASTM D4355	70 % @ 500 hrs	70 % @ 500 hrs
<b>CORE</b>			
Material <sup>1</sup>		PP/HIPS	PP/HIPS
Thickness	ASTM D1777	0.44 in	11 mm
Compressive Strength	ASTM D1621	15000 lbs/ft <sup>2</sup>	718 kPa
Flow Rate <sup>2</sup>	ASTM D4716	17 gpm/ft	211 Lpm/m

1. PP = Polypropylene; HIPS = High Impact Polystyrene
2. In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.
3. AASHTO Designation: M 288-21 Standard Specification for Highway Applications; American Association of State Highway and Transportation Officials, 2021. Geotextile survivability classification from installation stresses in subsurface drainage applications.

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