

# TerraDrain® Sheet 104

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	150 gpm/ft <sup>2</sup>	6113 Lpm/m <sup>2</sup>
Grab Tensile Strength	ASTM D4632	130 lbs	0.578 kN
CBR Puncture Resistance	ASTM D6241	360 lbs	1.55 kN
Apparent Opening Size	ASTM D4571	70 US Std. Sieve	0.210 mm
Permittivity	ASTM D4491	2.1 sec <sup>-1</sup>	2.1 sec <sup>-1</sup>
Grab Elongation	ASTM D4632	70 %	70 %
UV Resistance	ASTM D4355	70 % @ 500 hrs	70 % @ 500 hrs
AASHTO M 288-06 <sup>3</sup>	Survivability	Class 3	Class 3
<b>CORE</b>			
Material <sup>1</sup>		HIPS/PP	HIPS/PP
Thickness	ASTM D1777	0.44 in	11 mm
Compressive Strength	ASTM D1621	18000 lbs/ft <sup>2</sup>	862 kPa
Flow Rate <sup>2</sup>	ASTM D4716	21 gpm/ft	261 Lpm/m

1. PP = Polypropylene; HIPS = High Impact Polystyrene
2. 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.
3. In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

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