

# TerraDrain® C-54

TerraDrain® prefabricated chimney drains are constructed by fully wrapping a polymeric perforated core with a nonwoven filter fabric. The filter fabric is bonded to the core to prevent soil intrusion into the flow channels while allowing water to freely enter the drain core from both sides. TerraDrain® chimney drains are available in 12", 16", and 24" widths and provide a time saving, effective drainage solution for reducing hydrostatic pressure where full coverage is not required or is not feasible.

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	0.25 in	6.35 mm
Compressive Strength	ASTM D1621	9000 lbs/ft <sup>2</sup>	431 kPa
Flow Rate <sup>2</sup>	ASTM D4716	12.5 gpm/ft	155 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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