

# TerraDrain® C-104

TerraDrain® C-104 prefabricated chimney drains are constructed by fully wrapping a high strength, highflow capacity, formed polystyrene perforated core with a nonwoven filter fabric. The filter fabric is bonded to the core to soil prevent soil intrusion into the flow channels while allowing water to freely enter the drain core from both sides.

TerraDrain® C-104 chimney drains are available in 12", 16" and 24" widths and provide a time saving, effective drainage solution for reducing hydrostatic pressure against retaining walls where full wall coverage is not required or is not feasible. TerraDrain® C-104 is available with filter fabrics meeting AASHTO M 288-06 specifications.

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

1 PP = Polypropylene; HIPS = High Impact Polystyrene

2 AASHTO Designation: M 288-06 Standard Specification for Highway Applications; American Association of State Highway and Transportation Officials, 2006. 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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