

# TerraDrain® Sheet 108

TerraDrain® Sheet 108 prefabricated drains are constructed using a high strength, high flow capacity, formed polystyrene drainage core with a nonwoven, spun-bonded or woven filter fabric. The filter fabric is bonded to each dimple to prevent soil intrusion into the flow channels while allowing water to freely enter the drain core from one side.

TerraDrain® Sheet 108 products are designed for subsurface, single-sided drainage applications requiring a high compressive strength and flow capacity. TerraDrain® Sheet 108 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>90 gpm/ft<sup>2</sup></b>	<b>3668 Lpm/m<sup>2</sup></b>
Grab Tensile Strength	ASTM D4632	<b>205 lbs</b>	<b>0.912 kN</b>
CBR Puncture Resistance	ASTM D6241	<b>600 lbs</b>	<b>2.66 kN</b>
Apparent Opening Size	ASTM D4571	<b>80 US Std. Sieve</b>	<b>0.177 mm</b>
Permittivity	ASTM D4491	<b>1.3 sec<sup>-1</sup></b>	<b>1.3 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 1</b>	<b>Class 1</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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