

# TerraDrain® Sheet 108/2

TerraDrain® Sheet 108/2 prefabricated drains are constructed using a perforated, high strength, high flow capacity, formed polystyrene drainage core with a nonwoven filter fabric bonded to both sides. The filter fabric prevents soil intrusion into the flow channels while allowing water to freely enter the drain core from both sides.

TerraDrain® Sheet 108/2 products are designed for subsurface, double-sided drainage applications requiring a high compressive strength and flow capacity. TerraDrain® Sheet 108/2 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>

<sup>1</sup> PP = Polypropylene; HIPS = High Impact Polystyrene

<sup>2</sup> 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.

<sup>3</sup> In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

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