

# TerraDrain® Sheet 203

TerraDrain® Sheet 203 prefabricated drains are constructed using a high strength, high flow capacity, formed polystyrene core with a woven filter fabric bonded to one side. The filter fabric is bonded to each dimple to prevent soil intrusion into the core flow channels while allowing water to freely enter the drain core. The core provides an uninterrupted path for water to flow to designated drainage exits.

TerraDrain® Sheet 203 products are designed for subsurface, single-sided drainage applications requiring high compressive strength and flow capacity. TerraDrain® Sheet 203 is constructed using AASHTO M 288-06 Class 2 filter fabric.

PROPERTY	TEST METHOD	ENGLISH	METRIC
<b>Fabric</b>			
Material <sup>1</sup>		<b>PP</b>	<b>PP</b>
Water Flow Rate	ASTM D4491	<b>160 gpm/ft<sup>2</sup></b>	<b>6520 Lpm/m<sup>2</sup></b>
Grab Tensile Strength	ASTM D4632	<b>410 x 220 lbs</b>	<b>1.824 x 0.979 kN</b>
CBR Puncture Resistance	ASTM D6241	<b>725 lbs</b>	<b>3.22 kN</b>
Apparent Opening Size	ASTM D4571	<b>45 US Std. Sieve</b>	<b>0.354 mm</b>
Permittivity	ASTM D4491	<b>2.3 sec<sup>-1</sup></b>	<b>2.3 sec<sup>-1</sup></b>
Grab Elongation	ASTM D4632	<b>15 %</b>	<b>15 %</b>
UV Resistance	ASTM D4355	<b>90 % @ 500 hrs</b>	<b>90 % @ 500 hrs</b>
AASHTO M 288-06 <sup>2</sup>	Survivability	<b>Class 2 &amp; 3</b>	<b>Class 2 &amp; 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>
Installed Horizontal Flow Rate <sup>3</sup>	ASTM D4716	<b>4.1 gpm/ft</b>	<b>51 Lpm/m</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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