

TerraDrain® Sheet 104

TerraDrain® Sheet 104 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 104 products are designed for subsurface, single-sided drainage applications requiring a high compressive strength and flow capacity. TerraDrain® Sheet 104 is available with filter fabrics meeting AASHTO M 288-06 specifications.

PROPERTY	TEST METHOD	ENGLISH	METRIC
Fabric			
Material ¹		PP	PP
Water Flow Rate	ASTM D4491	150 gpm/ft²	6113 Lpm/m²
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⁻¹	2.1 sec⁻¹
Grab Elongation	ASTM D4632	70 %	70 %
UV Resistance	ASTM D4355	70 % @ 500 hrs	70 % @ 500 hrs
AASHTO M 288-06 ²	Survivability	Class 3	Class 3
Core			
Material ¹		HIPS	HIPS
Thickness	ASTM D1777	0.44 in	11 mm
Compressive Strength	ASTM D1621	18000 lbs/ft²	862 kPa
Flow Rate ³	ASTM D4716	21 gpm/ft	261 Lpm/m

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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