

TerraDrain® Sheet 50

TerraDrain® Sheet 50 prefabricated drains are constructed using a formed polystyrene core with a nonwoven 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 50 is an economical solution for sub-surface, single-sided drainage applications requiring moderate strength and flow capacity. TerraDrain® Sheet 50 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	190 gpm/ft²	7743 Lpm/m²
Grab Tensile Strength	ASTM D4632	90 lbs	0.400 kN
CBR Puncture Resistance	ASTM D6241	225 lbs	1.00 kN
Apparent Opening Size	ASTM D4571	50 US Std. Sieve	0.297 mm
Permittivity	ASTM D4491	2.8 sec⁻¹	2.8 sec⁻¹
Grab Elongation	ASTM D4632	65 %	65 %
UV Resistance	ASTM D4355	70 % @ 500 hrs	70 % @ 500 hrs
Core			
Material ¹		HIPS	HIPS
Thickness	ASTM D1777	0.25 in	6.35 mm
Compressive Strength	ASTM D1621	11000 lbs/ft²	527 kPa
Flow Rate ²	ASTM D4716	12.5 gpm/ft	155 Lpm/m

¹ PP = Polypropylene; HIPS = High Impact Polystyrene

² In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

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