

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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