

TerraDrain® Strip 680

TerraDrain® Strip 680 prefabricated soil drains are constructed by fully wrapping a perforated, high flow capacity polystyrene core with a nonwoven filter fabric. The filter fabric is bonded to the core and prevents soil intrusion into the flow channels while allowing water to freely enter the drain core from all sides.

TerraDrain® Strip 680 products offer a cost effective, sustainable, performance driven alternative to costly perforated pipe and stone systems. TerraDrain® Strip 680 is available with filter fabrics meeting ASSHTO M 288-06 Class 1, 2 or 3 specifications.

| PROPERTY | TEST METHOD | ENGLISH | METRIC |
|------------------------------|---------------|--------------------------------|-------------------------------|
| Fabric | | | |
| Material ¹ | | PP | PP |
| Water Flow Rate | ASTM D4491 | 90 gpm/ft² | 3668 Lpm/m² |
| Grab Tensile Strength | ASTM D4632 | 205 lbs | 0.912 kN |
| CBR Puncture Resistance | ASTM D6241 | 600 lbs | 2.66 kN |
| Apparent Opening Size | ASTM D4571 | 80 US Std. Sieve | 0.177 mm |
| Permittivity | ASTM D4491 | 1.3 sec⁻¹ | 1.3 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 1 | Class 1 |
| Core | | | |
| Material ¹ | | PP | PP |
| Thickness | ASTM D1777 | 1.0 in | 25.4 mm |
| Compressive Strength | ASTM D1621 | 6000 lbs/ft² | 287 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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