



TerraDrain 101

TerraDrain 101 is a two-part prefabricated geocomposite drain, consisting of a formed polystyrene core covered on one side with a nonwoven needle-punched polypropylene filter fabric. The fabric allows water to pass into the drain core while restricting the movement of soil particles that might clog the core. The core allows the water to flow to designated drainage exits. **TerraDrain 101** is non-biodegradable and resistant to most soil chemicals, acids, and alkalies with a pH range of 3 to 12. **TerraDrain 101** is manufactured to meet or exceed the following requirements:

| Property | Test Method | Value | Value |
|--|-----------------------|----------------------------|---------------------------|
| Fabric Properties | | | |
| Material | | Polypropylene | Polypropylene |
| Tensile Strength | ASTM D-4632 | 110 lbs. | 485 N |
| Tensile Elongation | ASTM D-4632 | 60% | 60% |
| Puncture Strength | ASTM D-4833 | 65 lbs. | 285 N |
| Mullen Burst Strength | ASTM D-3786 | 225 psi | 1496 kPa |
| Trapezoid Tear Strength | ASTM D-4533 | 50 lbs. | 220 N |
| AOS | ASTM D-4751 | 70 US Sieve | 212 microns |
| Permeability | ASTM D-4491 | .20 cm/sec | .20 cm/sec |
| Water Flow Rate | ASTM D-4491 | 150 gpm/ft ² | 6110 l/min/m ² |
| UV Resistance (Strength retained @ 500 hours) | ASTM D-4355 | 70% | 70% |
| Core Properties | | | |
| Material | | Polystyrene | Polystyrene |
| Thickness | | 7/16 in | 11 mm |
| Compressive Strength | ASTM D-1621 (mod.) | 15,000 lbs/ft ² | 732 kN/m ² |
| Drain Properties | | | |
| Flow Capacity | ASTM D-4716 | 16 gpm/ft of width | 200 L/min/m of width |

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