

DrainGuard Modular Drainage Composite

Description and Uses

DrainGuard is a two part sub-surface water collection system. DrainGuard consists of a dimpled high impact polystyrene core with a nonwoven polypropylene geotextile filter fabric attached to the core by a heat sensitive adhesive. Polypropylene fittings are attached to allow DrainGuard to form corners and transition to standard 4" pipe. DrainGuard provides sub-surface site water drainage for foundations and retaining walls. Backfill is kept away from the dimpled core by the geotextile to provide a drainage void for water to flow through. Water is directed to the water collection system.

DrainGuard is used to eliminate pipe and stone water collection systems and can be incorporated with DrainGuard 400 and DrainGuard 700 to form complete site water drainage systems.

Applications

- Foundation walls
- Retaining walls
- Underslab drainage

Advantages

- Low labor cost
- Inexpensive material cost
- Fast installation time

Physical Properties

Color	Black
Size	6" x 150' Roll 12" x 150' Roll
Weight	6" 30 lbs 12" 60 lbs
Core	High Impact Polystyrene
Geotextile	Nonwoven Polypropylene

Technical Data

Property	Test Method	Results
Core		
Compressive Strength	ASTM D-1621	9,500 psf (455 kNm ²)
Dimple Thickness	ASTM D-1777	1.0 in (2.54 cm)
Flow (Hydraulic Gradient=.1)	ASTM D-4716	21 gal/min/ft width (261 lpm/m)
Geotextile Fabric		
Flow	ASTM D-4491	150 gal/min/ft ² (6113 L/min/m ²)
Puncture	ASTM D-4833	70 lbs (311 N)
Apparent Opening Size (EOS)	ASTM D-4751	70 U. S. Sieve (.212 mm)
Grab Tensile	ASTM D-4632	115 lbs (512 N)
Permittivity	ASTM-4491	2.2 sec