

Hydrodrain[®]1000

DESCRIPTION

Hydrodrain[®]1000 is a three dimensional composite drainage system consisting of a crush-proof drainage core and a non-woven, needle punched filter fabric. The filter fabric is bonded to the ridges of the core, preventing intrusion of debris into the flow channels during backfilling. The fabric extends 100 mm (4 in) beyond the core and is bonded on one side of the core. A protection sheet is bonded to the underside of the core.



BASIC USE

Hydrodrain[®]1000 drainage layer is ideal anywhere a subsurface drainage course is required. Typical applications include foundation walls, trench drains, planters, plaza decks and roof assemblies..

ADVANTAGES

- Reduces hydrostatic pressure on below-grade structures.
- Enhances conventional waterproofing systems by transmitting water into a collection system before it reaches the substrate.
- Prevents intrusion of soil, concrete, or grout into the flow channels.
- Materials are resistant to all know naturally occurring earth salts and minerals.

TECHNICAL SPECIFICATIONS

Hydrodrain[®]1000 drainage layer is available in roll form, 1.2 m (48 in) wide by 22.9 m (75 ft) long. The geotextile overlaps the drainage core 100 mm (4 in) on one side. Each roll covers 27.9 sq m (300 sq ft).

TECHNICAL DATA

PROPERTY	TEST METHOD	GEOTEXTILE	DRAINAGE CORE
Thickness	ASTM D-1777	-----	6.35 mm (0.25 in)
Compressive strength	ASTM D-1621	-----	1,915 kN/sq m (40,000 lb/sq ft)
Flow Q @ 3,600 psf, Hydraulic gradient = 1	ASTM D-4716	-----	106 l/min/sq m(8.5 gal/min/sq ft)
Flow	ASTM D-4491	5,704 l/min/ sq m (140 gal./min/sq ft)	-----
CBR Puncture strength	ASTM D-6241	1 113 N (250 lb)	
MD		445 N (100 lb)	
Grab tensile strength	ASTM D-4632		
CD		445 N (100 lb)	
MD		50%	
Grab tensile elongation	ASTM D-4632		
CD		50%	
MD		200 N (45 lb)	
Trapezoid tear strength	ASTM D-4533		
CD		200 N (45 lb)	
UV Resistance (at 500 hrs)	ASTM D-4355	70% strength retained	
Apparent opening size (AOS)	ASTM D-4751	0,212 mm (U.S. sieve #70)	

LEED INFORMATION

	Credit 4	Credit 5
Recycled Content (% by weight)	40 post-industrial	
Manufacture Location		Alpharetta, GA, U.S.A.
Extraction/Harvesting Location		Alpharetta, GA, U.S.A.
VOC Content (g/L)		0

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