

# Hydrodrain® 300

## DESCRIPTION

Hydrodrain®300 is a composite drainage system of a three-dimensional, 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 the fabric 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.

## BASIC USE

Hydrodrain® 300 drainage layer is ideal for all areas requiring a horizontal underground drainage system. Hydrodrain® 300 is usually used in patio assemblies. Installed on the rigid insulation, The drainage layer allows water to be evacuated, while leaving an air space above the insulation, thus reducing the water pressure.



## ADVANTAGES

- Reduces hydrostatic pressure on below-grade structures.
- Prevents intrusion of soil, concrete, or grout into the flow channels.
- Materials are resistant to all known naturally occurring earth salts and minerals.

## TECHNICAL SPECIFICATIONS

Hydrodrain®300 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 inch)
Compressive strength	ASTM D-1621		195297,1 kg/m <sup>2</sup> (40 000 lb/ft <sup>2</sup> )
Flow Q @ 3,600 psf, Hydraulic gradient = 1	ASTM D-4716		106 l/min/m(8,5 gal/min/ft)
Flow	ASTM D-4491	5 907 l/min/ m <sup>2</sup> (145 gal./min/ft <sup>2</sup> )	
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

The contents and methods described herein are the intellectual property of Hydrotech Membrane Corp.. The information is based on data and knowledge considered to be true and correct at the time of publication and is offered for the user's consideration, investigation and verification. The information is subject to change without notice. The determination of suitability and fitness of the products and the application described herein for a particular purpose are the sole responsibility of the user. Please read all statements, recommendations and suggestions in conjunction with the conditions of sale which apply to all goods sold by Hydrotech Membrane Corp., including the express disclaimers by each company of the implied warranties of merchantability or fitness for a particular purpose.