

# Hydrodrain<sup>®</sup>400

## DESCRIPTION

Hydrodrain<sup>®</sup>400 is a composite drainage system consisting of a three-dimensional, crush-proof drainage core and a non-woven, needle punched filter fabric. The filter fabric is bonded to the top surface of the core, preventing intrusion 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.

## BASIC USE

Hydrodrain<sup>®</sup>400 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

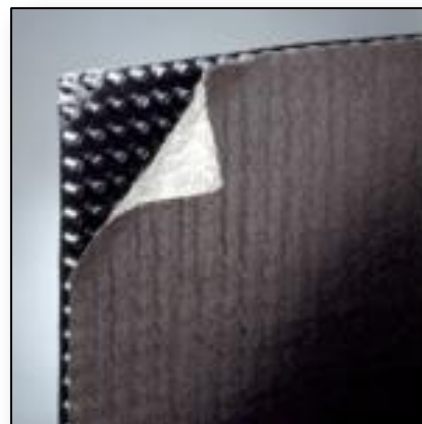
- Reduces hydrostatic pressure on below-grade structures.
- Non-woven fabric prevents intrusion of soil, concrete, or grout into the flow channels.
- Materials are resistant to all know naturally occurring earth salts and minerals.

## TECHNICAL SPECIFICATIONS

Hydrodrain<sup>®</sup>400 drainage layer is available in roll form, 1.2 m (48 in.) wide by 15.25 m (50 ft) covering 18.6 sq m (200 sq ft) , or 1.98 m (78 in) wide by 15.25 m (50 ft) covering 30.2 sq m (325 sq ft). The geotextile overlaps the drainage core 100 mm (4 in) on both sides.

## TECHNICAL DATA

PROPERTY	TEST METHOD	GEOTEXTILE	DRAINAGE CORE
Thickness	ASTM D-1777		10.16 mm (0.380 inch)
Compressive strength	ASTM D-1621		73,236.4 kg/m <sup>2</sup> (15,000 lb/ft <sup>2</sup> )
Flow Q @ 3,600 psf, Hydraulic gradient = 1	ASTM D-4716		261 l/min/m(21 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		401 N (90 lb)	
Grab tensile strength	ASTM D-4632		
CD		401 N (90 lb)	
MD		50%	
Grab tensile elongation	ASTM D-4632		
CD		50%	
MD		178 N (40 lb)	
Trapezoid tear strength	ASTM D-4533		
CD		178 N (40 lb)	
UV Resistance (at 500 hrs)	ASTM D-4355	70% strength retained	
Apparent opening size (AOS)	ASTM D-4751	0,25 mm (U.S. sieve #60)	



**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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