

SOPRADRAIN™ ECOVENT

Patterned core drainage mat

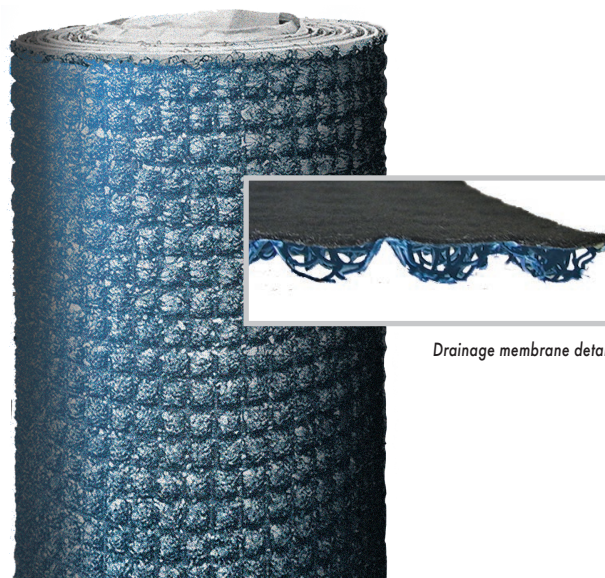
DESCRIPTION

SOPRADRAIN ECOVENT is a geometric patterned core drainage mat designed to eliminate hydrostatic pressure on vegetated roofs, foundation walls, retaining walls, planters and plaza decks while providing a protection fabric for the waterproof membrane. SOPRADRAIN ECOVENT is composed from an extruded polymer matrix of intertwined monofilaments that are heat-welded together forming a durable structure. One side of the mat is lined with a non-woven geotextile filter fabric designed to keep soil and concrete away from the wall, deck and core

ADVANTAGES

- ▶ Combines drainage, protection and filtration in one product
- ▶ Easily conforms to irregular shapes and corners
- ▶ Lightweight and easy to handle
- ▶ Provides a thin profile for tight construction assemblies

PHYSICAL PROPERTIES



Drainage membrane detail

Drainage Core

PROPERTY	VALUE	ASTM
Core Material	Polypropylene	-
Thickness; in (mm)	0.50 (12.7)	D1777
Core Weight; oz/yd ² (g/m ²)	16.0 (543.0)	-
Compressive Strength; psf (kPa)	> 30,000 (1,436)	D1621

Filter Fabric

PROPERTY	BLACK	ASTM
Material	Polypropylene	-
Fabric Weight; oz/yd ² (g/m ²)	4.0 (135.6)	D5261
Grab Strength; lb	120	D4632
Grab Elongation; %	50	D4632
Trapezoidal Tear; lb	50	D6241
Puncture Resistance; lb	70	D4833
AOS (max average)	70 U.S. Sieve	D4751
Flow Rate; gal/min/ft ² (L/min/m ²)	120.0 (454.2)	D4491
Permittivity	1.8 sec-1	D4491



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SOPRADRAIN™ ECOVENT

Patterned Core Drainage Mat

PRODUCT INFORMATION *

PROPERTY	VALUE
Length; ft (m)	100 (30.5)
Width; in (m)	48 (1.2)
Thickness; in (mm)	0.50 (12.7)
Roll Weight; lb (kg)	57 (25.9)
Rolls per Pallet	8
Coverage	400 (37.2)

* All values shown are nominal and subject to normal manufacturing tolerances.

APPLICATION

Unroll SOPRADRAIN Ecovent onto the designated surface with the filter fabric facing up. Overlap joints a minimum of 6 inches at the lap.

STORAGE & HANDLING

Store rolls in an upright position to prevent damage, do not double stack pallets. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture. Ballast down during installation to prevent loss of product.

FLOW RATES *

PRESSURE	1.0 GRADIENT	0.5 GRADIENT	0.2 GRADIENT
250 psf	22.5	15.5	9.2
500 psf	22.0	15.2	8.7
1,000 psf	20.7	14.3	8.4
2,000 psf	19.0	13.1	8.3
3,000 psf	16.0	11.0	6.4
3,600 psf	13.0	8.7	5.4
5,000 psf	8.05	5.4	3.1
8,000 psf	3.2	2.0	1.1

* Typical flow vs. pressure for vertical applications (ASTM D4716) Sample configuration: Plate/SOPRADRAIN ECO-2/Plate (Values are average of machine direction and cross machine direction test results.)