

# SOPRADRAIN™ ECOVENT 2

Patterned core drainage mat

## DESCRIPTION

SOPRADRAIN ECOVENT 2 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 2 is composed from an extruded polymer matrix of intertwined monofilaments that are heat-welded together forming a durable structure. The underside is surfaced with a heat-laminated protective fabric, and the topside is surfaced with a heat-laminated filter fabric.

## 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

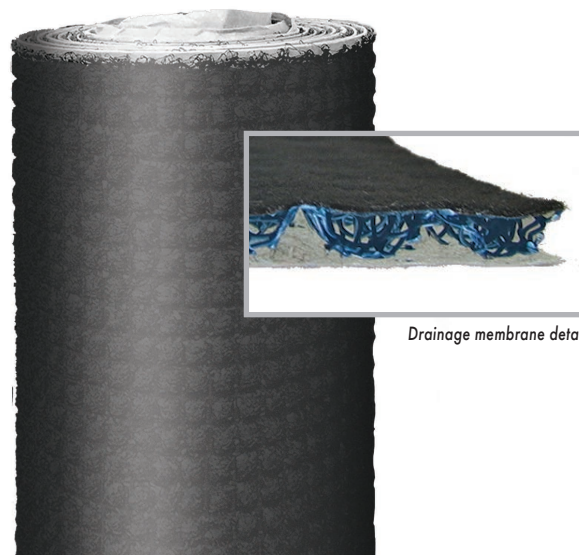
## PHYSICAL PROPERTIES

### Drainage Core

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

### Filter Fabric

PROPERTY	VALUE		ASTM
<b>Material</b>	Polypropylene	Pa6 & PET	-
<b>Fabric Weight;</b> oz/yd <sup>2</sup> (g/m <sup>2</sup> )	4.0 (135.6)	3.54 (120.0)	D5261
<b>Grab Strength;</b> lb	120	125	D4632
<b>Grab Elongation;</b> %	50	40	D4632
<b>Trapezoidal Tear;</b> lb	50	40	D6241
<b>Puncture Resistance;</b> lb	70	35	D4833
<b>AOS</b> (max average)	70 U.S. Sieve	45 U.S. Sieve	D4751
<b>Flow Rate;</b> gal/min/ft <sup>2</sup> (L/min/m <sup>2</sup> )	120.0 (454.2)	185 (700.3.0)	D4491
<b>Permittivity</b>	1.8 sec -1	2.5 sec -1	D4491



Drainage membrane detail



**PERFORMANCE  
ROOF SYSTEMS™**  
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REV. 05.23

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## PRODUCT INFORMATION \*

PROPERTY	VALUE
<b>Length;</b> ft (m)	100 (30.5)
<b>Width;</b> in (m)	48 (1.2)
<b>Thickness;</b> in (mm)	0.50 (12.7)
<b>Roll Weight;</b> lb (kg)	64.2 (29.1)
<b>Rolls per Pallet</b>	8
<b>Coverage</b>	400 (37.2)

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

## APPLICATION

Unroll SOPRADRAIN Ecovent 2 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	20.2	13.6	7.7
500 psf	18.1	12.4	7.3
1,000 psf	17.9	12.2	7.2
2,000 psf	16.8	11.2	7.0
3,000 psf	12.9	7.9	4.9
3,600 psf	8.6	4.7	2.8
5,000 psf	3.8	2.5	1.3
8,000 psf	1.7	1.0	0.5

\* 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.)



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