



SOPREMA INC
1640 HAGGERTY
DRUMMONDVILLE, QC.

TECHNICAL DATA SHEET
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SOPRADRAIN ECO-VENT

Description: *SOPRADRAIN ECO-VENT* is one of a new generation of environmentally conscious **SOPREMA** products. This drainage composite consists of a post-industrial recycled polypropylene drainage core of fused, entangled filaments onto which a geocomposite fabric is factory laminated. The entangled filaments are moulded into a square waffle pattern that maintains the flexible design. This product, because it exceeds 40 % post-industrial recycled content, can help contribute up to 2 LEED points when used in conjunction with other recycled content products. *SOPRADRAIN ECO-VENT* can contribute towards additional LEED points when used with a green roof by reducing stormwater runoff (credit 6.1), heat islands (credit 7.2), and energy consumption.

- Applications:**
- Foundation walls
 - Green roofs
 - Plaza decks
 - Retaining walls
 - Beneath slabs
 - Earth sheltered homes
 - Underground parking
 - Exterior planters

- Advantages:**
- Excellent durability
 - Protects waterproofing during and after backfill
 - Conforms to irregular surfaces and corners
 - Waffle design creates open flow path — even during backfill
 - Provides continuous flow even under high loads
 - Long rolls reduce installation costs by reducing butt seams and eliminating interlocking
 - Recycled content polymer contributes towards LEED® points such as MR 4.1 and MR 4.2
 - Increased flow rates over same thickness nylon and HDPE drains
 - 75 mm (3 in) fabric overlap flap

Polymer Properties: Polypropylene has excellent resistance to organic solvents, degreasing agents, acids, and alkalines. It has tensile strength superior to high density polyethylene. It has a low moisture absorption rate, resistance to staining and is a very lightweight product.

Properties:

Drainage Core	Metric Units	English Units
Core Material	Recycled Polypropylene	
Thickness	11.43 mm	0.45 in
Core Weight	542.6 g/m ²	16.0 oz/yd ²
Core Width	99.1 cm	39.0 in
Length	30.5 m	100.0 ft
Gross net coverage	30.1 m ²	324.0 ft ²
Roll Diameter	68.6 cm	27.0 in
Gross Roll Weight	25.8 kg	57 lbs
Compressive Load Test*	1436 kPa	30 000 psf

(All values are nominal)

* Tested per ASTM D 1621 modified and ASTM D 4716.

* Failure defined as reaching yield point or no continued measurable flow under stated load.

Geotextile Properties (Polypropylene)	Standards	Metric Units	English Units
Polymer	-	Polypropylene	
Fabric Color	-	Black	
Weight	ASTM D 5261	152.6 g/m ²	4.5 oz/yd ²
Grab Strength	ASTM D 4632	540 N	120 lbf
Grab Elongation	ASTM D 4632	50 %	
Trapezoidal Tear	ASTM D 4533	220 N	50 lbf
Puncture Strength	ASTM D 4833	310 N	70 lbf
Apparent Opening Size	ASTM D 4751	0.212 mm	70 US Sieve
Flow Rate	ASTM D 4491	81.5 L/min/m ²	120 gal/min/ft ²
Permittivity	ASTM D 4491	1.8 sec ⁻¹	

(All values are nominal)

Flow Rates	1.0 Gradient		0.2 Gradient	
	Metric Units	English Units	Metric Units	English Units
250 psf	280 L/min/m	22.5 gal/min/ft	114 L/min/m	9.2 gal/min/ft
500 psf	273 L/min/m	22 gal/min/ft	108 L/min/m	8.7 gal/min/ft
1000 psf	257 L/min/m	20.7 gal/min/ft	104 L/min/m	8.4 gal/min/ft
2000 psf	236 L/min/m	19 gal/min/ft	103 L/min/m	8.3 gal/min/ft
3000 psf	199 L/min/m	16 gal/min/ft	80 L/min/m	6.4 gal/min/ft
3600 psf	162 L/min/m	13 gal/min/ft	67 L/min/m	5.4 gal/min/ft
5000 psf	100 L/min/m	8.05 gal/min/ft	39 L/min/m	3.1 gal/min/ft
8000 psf	40 L/min/m	3.2 gal/min/ft	14 L/min/m	1.1 gal/min/ft

Typical flow vs. pressure for vertical applications (ASTM D 4716) Sample Configuration: Plate/SOPRADRAIN ECO-VENT/Plate.
 (Values are average of machine direction and cross machine direction test results.)

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NOTE: SOPREMA INC. may modify the composition and/or utilisation of its products without prior notice. Consequently orders will be filled according to the latest specification.