



SOPREMA INC
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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 products from SOPREMA. 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 in a LEED project. *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
- Garden 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 can contribute 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 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
Total Weight	695.2 g/m ²	20.5 oz/yd ²
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	24.5 kg	54 lbs
Compressive Load Test*	1436 kPa	30 000 psf

(All values are nominal)

* 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 %	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	4887 l/min/m ²	120 gal/min/ft ²
Permittivity	ASTM D 4491	1.8 sec ⁻¹	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.