



SOPRADRAIN ECO-2

Sopradrain ECO-2

Order No. *

*Contact Customer Service for Order Number and Availability

DESCRIPTION

Sopradrain ECO-2 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 and a geocomposite fabric bonded to one side. The entangled filaments are molded into a square waffle pattern that maintains the flexible design of other Soprema products. 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-2 can contribute towards additional LEED points when used with a green roof by reducing storm water runoff, heat islands and energy consumption. The second fabric eliminates the need for protection board and provides additional protection for the waterproofing membrane.

- Features and Benefits
- Excellent durability
 - Protects waterproofing during and after backfill
 - Second fabric eliminates need for protection board
 - 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
 - Increased flow rates over same thickness nylon and HDPE drains
 - 3" fabric overlap flap on both sides

RECOMMENDED APPLICATIONS

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

PACKAGING

PRODUCT PROPERTIES	ENGLISH UNITS	METRIC UNITS
Core Width	39.0 in	99.1 cm
Length	100.0 ft	30.5 m
Area	36.0 yd ²	30.1 m ²
Area	324.0 ft ²	30.1 m ²
Roll Diameter	27.0 in	68.6 cm
Gross Roll Weight	64.2 lbs	29.1 kg



TECHNICAL DATA

PHYSICAL PROPERTIES	TEST METHOD	ENGLISH UNITS	METRIC UNITS
Core Properties			
Material	--	Polypropylene	--
Thickness	--	0.45 in	11.43 mm
Core Weight	--	16 oz/ yd ²	542.6 g/ m ²
Compressive Stregnth*	ASTM D 1621	>30,000 psf	1436 kPa
Fabric Properties			
Material	--	Polypropylene	--
Color	--	Black	--
Weight	ASTM D 5261	4.5 oz/yd ²	152.6 g/m ²
Grab Strength	ASTM D 4632	120.0 lbs	0.54 kN
Grab Elongation	ASTM D 4632	50%	50%
Trapeziodal Tear	ASTM D 4533	50.0 lbs	0.22 kN
Puncture Strength	ASTM D 4833	70.0 lbs	0.31 kN
Apparent Opening Size	ASTM D 4751	70 US Sieve	0.212 mm
Flow Rate	ASTM D 4491	120.0 gal/min/ft ²	4887 l/sec/m ²
Permittivity	ASTM D 4491	1.8 sec ⁻¹	1.8 sec ⁻¹

(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.

FLOW RATES			
Pressure	1.0 Gradient	0.5 Gradient	0.2 Gradient
250 psf	20.2 gal/min/ft	13.6 gal/min/ft	7.7 gal/min/ft
500 psf	18.1 gal/min/ft	12.4 gal/min/ft	7.3 gal/min/ft
1000 psf	17.9 gal/min/ft	12.2 gal/min/ft	7.2 gal/min/ft
2000 psf	16.8 gal/min/ft	11.2 gal/min/ft	7.0 gal/min/ft
3000 psf	12.9 gal/min/ft	7.9 gal/min/ft	4.9 gal/min/ft
3600 psf	8.6 gal/min/ft	4.7 gal/min/ft	2.8 gal/min/ft
5000 psf	3.8 gal/min/ft	2.5 gal/min/ft	1.3 gal/min/ft
8000 psf	1.7 gal/min/ft	1.0 gal/min/ft	0.5 gal/min/ft

Typical flow vs. pressure for vertical applications (ASTM D 4716) Sample configuration: Plate/SOPRADRAIN ECO-2/Plate
(Values are average of machine direction and cross machine direction test results.)