



SOPRADRAIN ECO-2 WR

Sopradrain Eco-2 WR

Order No.*

*Contact Customer Service for Order Number and Availability

DESCRIPTION

SOPRADRAIN ECO-2 WR is one of a new generation of environmentally conscious Soprema products specifically designed for **SOPRANATURE** garden roofs. This multi-function composite consists of a 50% post-industrial recycled polypropylene drainage core of fused, entangled filaments, a protective geotextile fabric on the underside and a specially formulated water retention fabric bonded to the top side. The composite water retention fabric consists of a 8 oz/yd²- 100% post consumer recycled non-woven polyester fabric mechanically bonded to a 12 oz/yd² layer of synthetic hydrophilic (water) absorbent mat. The absorbent mat is designed to hold 10 to 12 times its unit weight of water. It is a very strong, durable composite that is extremely resistant to puncture and tearing. The composite is inert to biological degradation and naturally encountered chemicals, alkalis and acids. This product can help contribute up to 2 LEED points when used in conjunction with other recycled content products. As part of a **SOPRANATURE** garden roof, **SOPRADRAIN ECO-2 WR** can contribute towards additional LEED points by reducing storm water runoff, heat islands and energy consumption.

- Features and Benefits
- Excellent durability
 - Protects waterproofing during and after installation of growing media
 - Conforms to irregular surfaces and corners
 - Waffle design creates open flow path - even during installation of growing media
 - Long rolls reduce installation costs by reducing butt seams and eliminating interlocking
 - Recycled content polymer in core and fabric contributes towards LEED points
 - Provides superior water holding capacity
 - Reduces runoff volume in garden roof applications
 - 3" fabric overlap flap

RECOMMENDED APPLICATIONS

- SOPRANATURE garden roof systems (Extensive, Semi-intensive or Intensive)
- Exterior planters
- Interior planters

PACKAGING

PRODUCT PROPERTIES	ENGLISH UNITS	METRIC UNITS
Core Width	39.0 in	99.1 cm
Length	61.5 ft	18.6 m
Area	22.2 yd ²	18.6 m ²
Area	200 ft ²	18.6 m ²
Roll Diameter	27.0 in	68.6 cm
Gross Roll Weight	58.0 lbs	26.4 kg



TECHNICAL DATA

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL VALUE
Core Properties		
Material	--	Recycled Polypropylene
Thickness	--	0.60 in
Core Weight	--	16 oz/ yd ²
Flow Rate*	ASTM D 4716	6.9 gal/min/ft
Compressive Stregnth* ¹	ASTM D 1621	>30,000 psf
Fabric Properties		
Material	--	Polypropylene / Recycled Polyester
Color	--	Light Green
Weight	ASTM D 5261	20.0 oz/yd ²
Grab Strength	ASTM D 4632	135.0 lbs
Grab Elongation	ASTM D 4632	70%
Puncture Strength	ASTM D 4833	70.0 lbs
Mullen Burst Strength	ASTM D 3786	300 psig
Flow Rate	ASTM D 4491	120.0 gal/min/ft ²
Permittivity	ASTM D 4491	1.8 sec ⁻¹

(All values are nominal)

*Tested at Gradient of 0.1 (23.0 gal/min/ft when tested at Gradient of 1.0)

*¹ Tested per ASTM D 1621 modified and ASTM D 4716. Failure defined as reaching yield point or no continued measurable flow under stated load.

Polymer Properties

Polypropylene has excellent resistance to organic solvents, degreasing agents, acids and alkalines. It provides superior tensile strength to that of high density polyethylene. It has a low moisture absorption rate, is resistant to staining and is extremely lightweight.