Product Data

N-VIRE™ Mat 040

A Ventilation Mat for Green Roof Vegetation

Part Number: 01-X-0040

Description

N-VIRE™ Mat 040-1 is a 0.40-inch, cuspated geometric patterned core, ventilation mat designed to promote green roof vegetation.

The product is produced from an extruded polymeric matrix of tangled monofilaments, which are heat-welded at the junctions to form a resilient structure that utilizes a non-woven geotextile filter fabric to hold the soil or growing media away from the roof deck and the core. The airspace allows proper ventilation and promotes optimal growing conditions.

Applications

- Ventilation of roof vegetation applications
- Drainage below green roof applications
- Natural soil separation from growing medium in green roof vegetation
- Root reinforcement for transportation of extensive roofing plants
- Root barrier to control migration into natural soils

Features and Benefits

- Polymeric core for flexibility and compressibility
- High water flow rates – in excess of 10 gallons per minute
- Fire resistant – Class A fire-rated product for roofing
- Carbon black added for UV stability
- Lightweight and easy to handle
- Creates Proper ventilation
- Promotes optimal growing conditions

Drainage System

Description	Means of Measurement		Value	
	English	*Metric*	*English*	*Metric*
Core Polymer	Polymeric			
Thickness	Inches	Mm	0.25	6.0

Fabric Properties

Description	Measurement		Test Method
	English	Metric	
Fabric Color	Charcoal	100% Polyester, Spun-Bond/Flat-Bond	
Weight	1.4 oz/yd² NW	136 g/m² NW	ASTM D5261
Grab Tensile Strength	57 lbs	254 N	ASTM D4623
Trapezoid Tear Strength	31 lbs	139 N	ASTM D4533

Flow Rates by Application: ASTM D4716

Hydraulic Gradients:	1.0 Gradient (100% Slope or "Vertical Wall")	0.5 Gradient (50% Slope or "Very Steep Roof / Balcony")	0.02 Gradient (2% Slope or "Industry-Standard Balcony Slope")
Compression Strength	Flow Rate (gpm/ft. of width)	Flow Rate (gpm/ft. of width)	Flow Rate (gpm/ft. of width)
250 psf	22.50	14.62	2.29
500 psf	20.78	13.56	2.16
1,000 psf	19.80	12.93	1.93
2,000 psf	6.58	4.28	0.36
3,000 psf	2.95	1.74	0.19
4,000 psf	2.41	1.21	0.13
5,000 psf	2.00	1.24	0.09

Packaging

Description	Means of Measurement		Value	
	English	*Metric*	*English*	*Metric*
Core Width	Inches	CM	48.0	122
Length	Feet	Meters	100	30.5
Area	Square Feet	Square Meters	400	37.2
Roll Weight	Pounds	Kg	55	24.9

See installation instructions for methods and procedures.

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