

# ROOFSCAPES® TerraDRAIN EN-18



## Prefabricated Entangled Mesh Multi-Functional Composite Drainage Mat (18 mm)

Formerly known as *RamDrain® AIR*

### Description

Terra-DRAIN™ EN-18 (Entangled Mesh) is a 0.75" (18 mm) thick prefabricated multi-functional drainage mat designed to either assist with root entanglement & soil reinforcement or act as a moderate to high-flow drainage product in green roof or landscaping assemblies.

The geometric "zig-zag" patterned polypropylene core is produced from an extruded matrix of tangled monofilaments, which are heat-welded at the junctions to form a resilient structure. A non-woven polyester filter fabric is adhered to the surface of one side of the material to hold the soil or concrete away from the wall or deck and the core.

When used with the filament-side up, the product assists with root entanglement and soil reinforcement, allowing roots to grow into and become tangled with the 3-dimensional polymeric core. This feature facilitates the easy transportation of vegetation from one place to another. Alternatively, when installed with the fabric side up, the mat creates a 0.75" thick air-space, enabling incidental moisture to drain away and ventilate out effectively.

### Benefits

- Fire resistant – Class A fire-rated product
- High water flow rate – in excess of 10 gal/min
- Eliminates the need to use aggregate for drainage
- Lightweight and easy to handle
- Carbon black added for UV stability

### Properties

#### Geotextile Fabric

Description	Measurement	Test Method
Material	Polyester	
Fabric	Spunbond/Flat-Bond	
Weight	1.4 oz/yd <sup>2</sup>	ASTM D-5261
Thickness	11.8 mils	ASTM D-1777
Grab Tensile Strength	57 lbs (254 N)	ASTM D-4623
Trapezoid Tear Strength	31 lbs (139 N)	ASTM D-4533

#### Composite Core

Description	Measurement	Test Method
Material	Polypropylene	
Thickness	0.75 in (18 mm)	



### Coverage

200 sq/ft per roll

### Uses

- Drainage and aeration for green roof assemblies
- Under slab drainage
- Foundations
- Commercial planters
- Landscaping

### Packaging

48" x 50'  
27.1 lbs per roll  
8 rolls per pallet



### LEED Credits available for:

- Materials & Resources (MR)

### Flow Rates by Application (ASTM D-4716)

Hydraulic Gradients	1.0 Gradient (100% Slope)	0.5 Gradient (50% Slope)	0.02 Gradient (2% Slope)
Compression Strength	Flow Rate (gpm/ft of width)	Flow Rate (gpm/ft of width)	Flow Rate (gpm/ft of width)
250 psf	26.53	17.07	4.38
500 psf	24.50	15.84	4.13
1,000 psf	23.35	15.10	3.69
2,000 psf	7.76	5.00	0.69
3,000 psf	3.48	2.03	0.36
4,000 psf	2.32	1.41	0.25
5,000 psf	2.15	1.26	0.17