

ROOFSCAPES® TerraDRAIN EN-12



Prefabricated Entangled Mesh Composite Drainage Mat (0.45")

Description

Terra-DRAIN™ EN-12 (Entangled Mesh) is a 0.45" (12 mm) thick prefabricated drainage mat designed to eliminate hydrostatic pressure from green roofs, planters, plaza decks, retaining walls, balconies, and behind foundation walls while providing an impermeable membrane surface for the face of the structure.

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, eliminating aggregate for drainage from a construction site in a single step.

Benefits

- Fire resistant – Class A fire-rated product
- Lightweight and easy to handle
- Simple installation with adhesive or termination bar; No expensive seaming, fastening and termination accessories
- Made with recycled polymers

Properties

Geotextile Fabric

Description	Measurement	Test Method
Material	Polyester	
Fabric	Non-Woven	
Weight	3.25 oz/yd ²	ASTM D-5261
Thickness	11.8 mils	ASTM D-1777
Grab Tensile Strength	80 lbs (356 N)	ASTM D-4623
Grab Tensile Elongation	50%	ASTM D-4632
Trapezoid Tear Strength	30 lbs (134 N)	ASTM D-4533
CBP Puncture Strength	175 lbs (779 N)	ASTM D-6241
AOS	50 Sieve	ASTM D-4751
Permittivity	2.1 sec (-1)	ASTM D-4491
Flow Rate	155 gpm/ft ²	ASTM D-4491
UV Resistance (500 hrs)	70% strength retained	ASTM D-4355

Composite Core

Description	Measurement	Test Method
Material	Polypropylene	
Thickness	0.45 in (12 mm)	



Coverage

400 sq/ft



Packaging

Uses

- Plaza decks
- Green roofs
- Under slab drainage
- Foundations
- Retaining Walls
- Commercial planters
- Balconies

48" x 100'

56 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	24.5	16.3	2.8
500 psf	22.6	15.2	2.7
1,000 psf	21.6	14.5	2.5
2,000 psf	4.6	3.1	0.4
3,000 psf	3.2	1.9	0.2
4,000 psf	2.6	1.6	0.2
5,000 psf	2.0	1.4	0.1

Gradient is expressed as a percent of slope.

Typical flow vs pressure for vertical applications (ASTM D-4716). Sample Configuration: Plate/EN-12/Plate Values are average of machine direction and cross-direction test results.

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800 | 647 | 0100
F 908 | 647 | 0278