

PARADRAIN DRAINAGE MAT EXTENSIVE & INTENSIVE CONSTRUCTIONS



Commercial Product Data Sheet

Product Description

Paradrain Drainage Mats for vegetated roofs are designed for horizontal applications requiring high compressive strength, high flow capacity, and the strength and filtration properties of a geotextile fabric.

Product Uses

Paradrain Extensive Drainage Mat is designed specifically for sedum and other extensive green roof applications utilizing lower soil depths. The polypropylene core is dimpled, perforated, and bonded between two filter fabrics. The fabric on the top side isolates soils and allows water to pass through the high flow drainage core to designated outlets. The retention chambers within the core retain approximately 0.042 gallons of water per square foot.

Paradrain Intensive Drainage Mat is designed specifically for green roof applications having perennials, large shrubs, and small trees with greater soil depths. The core is fabricated from polypropylene and is dimpled, perforated, and bonded between two filter fabrics. The fabric on the top side allows water to pass through the high flow drainage core to designated outlets while preventing soil and other fine particles from being washed away. The retention chambers within the core retain approximately 0.11 gallons of water per square foot.

Physical Properties

DRAIN TYPE	PARADRAIN DRAINAGE MAT EXTENSIVE		PARADRAIN DRAINAGE MAT INTENSIVE	
	Core thickness	0.40 in	10.16 mm	1 in
Roll width	48 in	1.22 m	48 in	1.22 m
Roll length	50 ft	15.24 m	50 ft	15.24 m
Roll weight	50 lb	22.7 kg	74 lb	33.6 kg

Storage and Handling: All Siplast roll products should be stored on end on a clean, flat surface. Care should be taken that rolls are not dropped on ends or edges and are not stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All products should be stored in a dry place, out of direct exposure to the elements, and should not be double stacked. Material should be handled in such a manner as to ensure that it remains dry prior to and during installation.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

Technical Specifications

DRAIN TYPE	PARADRAIN EXTENSIVE DRAINAGE MAT		PARADRAIN INTENSIVE DRAINAGE MAT	
	Plants*	Sedum, grasses		Perennials, large shrubs, & small trees
Soil*	Mineral or organic soil		Mineral or organic soil	
Geotextile - Top Side				
weight	6 oz/yd ²	171 g/m ²	6 oz/yd ²	171 g/m ²
flow rate ASTM D 4491	110 gpm/ft ²	4,482 lpm/m ²	110 gpm/ft ²	4,482 lpm/m ²
Core				
Compressive Strength ASTM D1621	15,000 lb/ft ²	719 kN/m ²	9,500 lb/ft ²	460 kN/m ²
Vertical Flow (gradient = 1.0) ASTM D 4716	21 gpm/ft	261 lpm/m	92 gpm/ft	1140 lpm/m
Horizontal Flow (gradient = 0.1) ASTM D 4716	8 gpm/ft	99 lpm/m	30 gpm/ft	372 lpm/m
Geotextile - Bottom Side				
Weight	4 oz/yd ²	114 g/m ²	4 oz/yd ²	114 g/m ²
flow rate ASTM D 4491	140 gpm/ft ²	5,704 lpm/m ²	140 gpm/ft ²	5,704 lpm/m ²
* Type of plants, soil type and depth, and other related issues should be reviewed with a regional horticulturist for optimum results.				

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