

SOPRANATURE[®] DRAIN PLATE 25



APPLICATIONS

VEGETATED SOLUTIONS

PRODUCT DATA SHEET PD10390 - REV.028721

DESCRIPTION:

SOPRANATURE Drain Plate 25 HS is a 1" (25 mm) tall, three-dimensional plastic drainage structure for green roofs made of high-density polyethylene. Unlike flexible drainage sheets made of thin plastic, this is thick, semi-rigid, high-strength product designed to last a lifetime and to withstand heavy pedestrian traffic.

STORAGE & HANDLING:

Store product in a clean dry location and cover as necessary to protect from environmental damage such as extreme cold, heat, or moisture. Ballast down during installation to prevent loss of product.

APPLICATION:

Lay the SOPRANATURE Drain Plate 25 over the SOPRANATURE Moisture Retention Mat overlapped 6" and overlap the adjacent drain plates by two corrugations. Stagger the joints in adjacent rows by one-half sheet so that there are no more than three layers at any point. Cut single plates, using a board to protect underlying materials from damage. Fill the plates immediately with water to prevent uplift in windy conditions or expansion in sunny conditions.

QUICK FACTS:

GROSS SURFACE AREA (ft ² /plate)	NET COVERAGE (ft ² /plate)	PACKAGING (plates per pallet)	COMPRESSIVE STRENGTH (psf)
21.5 (2 m ² /plate)	19 (1.75 m ² /plate)	350	5240 (251 kPa)

**Note: This product requires a minimum order of 20 plates.*

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PHYSICAL PROPERTIES:

PROPERTY	VALUE
Material	Black 100% post-consumer recycled HDPE
Dimensions, in (m)	39 x 79 x 1 (1 x 2 x 0.025)
Weight, 7.0lb/plate (3.2 kg/plate), lb/ft ² (kg/m ²)	0.33 (1.6)
Water retention, gal/ft ² (l/m ²)	0.12 (5)
Aggregate fill volume, ft ³ /ft ² (l/m ²)	0.025 (7.5)

FLOW RATE:

HYDRAULIC GRADIENT	FLOW RATE (GAL/MIN/FT)	FLOW RATE (LITERS/SEC/M)
i = 0.01	4.8	1.0
i = 0.02	6.6	1.4
i = 0.05	11.0	2.2
i = 0.10	15.0	3.1
i = 1.00	49.0	10.0