

# SOPRANATURE™

## DRAIN PLATE 25

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PRODUCT # W916

## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

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 plates over the SOPRANATURE Moisture Retention Mat overlapped 6" and overlap the adjacent 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 <sup>2</sup> /plate)	NET COVERAGE (ft <sup>2</sup> /plate)	PACKAGING (plates per pallet)	COMPRESSIVE STRENGTH (psf)
21.5 (2 m <sup>2</sup> /plate)	19 (1.75 m <sup>2</sup> /plate)	350	5240 (251 kPa)

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



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TECHNICAL INFORMATION & TESTING

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 <sup>2</sup> (kg/m <sup>2</sup> )	0.33 (1.6)
Water retention, gal/ft <sup>2</sup> (l/m <sup>2</sup> )	0.12 (5)
Aggregate fill volume, ft <sup>3</sup> /ft <sup>2</sup> (l/m <sup>2</sup> )	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