

TriDent DD 050

High Performance Dimpled Composite Drain



Description

TriDent DD is a high-performance drainage sheet engineered to relieve hydrostatic pressure by creating a channel for liquid water. TriDent DD is a two-layer system. The first layer is constructed of a high strength, moisture impermeable, cusped (dimpled) polystyrene sheet designed to provide superior compressive strength. Adhered to the high strength, cusped polymer base is a nonwoven, polypropylene filter fabric. The filter fabric works in conjunction with the HIPS sheet to efficiently promote a high-water flow while preventing silt, dirt, and concrete to penetrate the drainage channel. TriDent DD is suitable as a drainage layer for applications such as: (1) plaza decks, (2) under slab, (3) vertical walls (above and below grade), (4) green roof systems, and (5) a drainage in commercial planters.

Applications

- ✓ Foundations
- ✓ Commercial planters
- ✓ Under slab drainage
- ✓ Green roofs
- ✓ Plaza decks

Features and Benefits

Drainage of Excess Moisture and Ventilation in One Product

Creates an Air Gap Between the Membrane and Foundation

Light Weight and Easy to Handle

High Performance Filter Fabric

High Strength

Packaging

Description	Means of Measurement		Value	
	English	Metric	English	Metric
Core Width	Inches	CM	48.0	122
Length	Feet	Meters	50.0	15.24
Area	Square Feet	Square Meters	200	18.58
Rolls per pallet			18	18
Roll Weight	Pounds	Kg	39	14.97

Physical Properties

Description	Means of Measurement English/Metric		Test Method
Drain Properties			
Flow Capacity	16 gpm/ft of width	200 L/min/m of width	ASTM D-4716
Core Properties			
Material	HIPS		
Thickness	1/2"	12.7 mm	ASTM D-1777
Compressive Strength	15,000 lb/ft ²	790 kPa	ASTM D-1621
Fabric Properties			
Material	Polypropylene		
Grade Tensile Strength	110 lbf	445 N	
Puncture Strength	65 lbf	289 N	ASTM D-4632
Grab Strength	60%		ASTM D-4833
EOS (AOS)	100 sieve	0.152mm	ASTM D-4632
UV at 500 hours	70%		ASTM D-4751
Flow Rate	150 gal/min/ft ²	6110/min/m ²	ASTM D-4355
			ASTM D-4491



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