Product Data

Driwall™

Prefabricated Composite Drain 10/045

Part Number: 01-X-0015

Description

Driwall™ Prefabricated Composite Drain 10/045 is a 0.45-inch, “zig-zag” geometric patterned core, drainage mat designed to eliminate hydrostatic pressure from behind foundation walls, retaining walls, planters, plaza decks, and balconies.

The product is produced from an extruded polymer matrix of tangled monofilaments, which are heat-welded at the junctions to form a resilient structure. This product utilizes a non-woven geotextile filter fabric to hold the soil or concrete away from the wall or deck and the core.

When using Driwall™ Prefabricated Composite Drain, aggregate for drainage can be eliminated from a construction site.

Applications

- Plazas, foundation walls, and planters
- Shotcrete or gunnite applications
- Green Roofs
- Roof Gardens
- Will protect soft membranes

Features and Benefits

- Minimal deflection, and no creep or long-term degradation
- Provides a thin profile for tight construction assemblies
- Lightweight and easy to handle

Drainage System

Description	Means of Measurement		Value	
	English	*Metric*	*English*	*Metric*
Core Polymer	Polymeric			
Thickness	Inches	Mm	0.45	11.4mm

Fabric Properties

Description	Measurement		Test Method
	English	Metric	
Fabric Color	Charcoal	100% Polyester	
Weight	3.25 oz/yd²	110 g/m²	ASTM D5261
Grab Tensile Strength	80 lbs	356 N	ASTM D4623
Grab Tensile Elongation	50%	50%	ASTM D4632
Trapezoid Tear Strength	30 lbs	134 N	ASTM D4533
CBR Puncture Strength	175 lbs	779 N	ASTM D6241
AOS	50 U.S Sieve	0.30 mm	ASTM D4751
Permittivity	2.1 sec (-1)		ASTM D4491
Flow Rate	155 gal/min/ft²	6314 l/min/m²	ASTM D4491
UV Resistance (500 hours)	70% strength retained		ASTM D4355

Flow Rates by Application: ASTM D4716

Hydraulic Gradients:	1.0 Gradient (100% Slope or "Vertical Wall")	0.5 Gradient (50% Slope or "Very Steep Roof / Balcony")	0.02 Gradient (2% Slope or "Industry-Standard Balcony Slope")
Compression Strength	Flow Rate (gpm/ft. of width)	Flow Rate (gpm/ft. of width)	Flow Rate (gpm/ft. of width)
250 psf	24.50	16.34	2.79
500 psf	22.63	15.15	2.68
1,000 psf	21.56	14.45	2.52
2,000 psf	4.58	3.09	0.39
3,000 psf	3.21	1.94	0.19
4,000 psf	2.62	1.64	0.16
5,000 psf	2.03	1.35	0.12

Packaging

Description	Means of Measurement	Value

	English	*Metric*	*English*	*Metric*
Core Width	Inches	CM	48.0	122
Length	Feet	Meters	100	30.5
Area	Square Feet	Square Meters	400	37.2
Roll Weight	Pounds	Kg	55.6	25.2

See installation instructions for methods and procedures.

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