

Product Data

# Driwall™ Prefabricated Composite Drain 10/045

## Description

Driwall™ Prefabricated Composite Drain 10/045 is a 0.45-inch, square grid 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 Systems

Description	Measurement	
	English	Metric
Flame Spread	ASTM 84 Class A	
Core Polymer	Polymeric	
Thickness	0.45 inches	11.4 mm

## Flow Rates by Application: ASTM D4716

	Vertical	1/2" Slope to Drain	1/4" Slope to Drain	1/4" Slope to Drain after Application Compression
Compression Strength	Flow Rate	Flow Rate	Flow Rate	Flow Rate
500 psf	16.30 gpm/ft	2.20 gpm/ft	1.17 gpm/ft	
1000 psf	13.72 gpm/ft	1.89 gpm/ft	0.97 gpm/ft	0.10 gpm/ft
2000 psf	6.81 gpm/ft	0.67 gpm/ft	0.35 gpm/ft	

*Note: 30,000 psf was applied to sample for 1 hour than able to relax for 24 hours before 1000 psf was applied and ASTM D4716 was run. Passed.*

## Fabric Properties

Description	Measurement		Test Method
	English	Metric	
Polymer	Polypropylene		
Fabric Color	Charcoal		
Weight	4.0 oz/yd <sup>2</sup>	136 g/m <sup>2</sup>	ASTM D5261
Grab Tensile Strength	100 lbs	445 N	ASTM D4623
Grab Tensile Elongation	60%	60%	ASTM D4632
Trapezoid Tear Strength	45 lbs	200 N	ASTM D4533
CBR Puncture Strength	250 lbs	1448 N	ASTM D6241
AOS	70 U.S Sieve	0.212 mm	ASTM D4751
Permittivity	1.9 sec (-1)	1.9 sec (-1)	ASTM D4491
Permeability	0.21 cm/sec		ASTM D4491
Flow Rate	140 gal/min/ft <sup>2</sup>	5704 l/min/m <sup>2</sup>	ASTM D4491
UV Resistance (500 hours)	70% strength retained		ASTM D4355

## Packaging

Description	Measurement	
	English	Metric
Width	48 inches	122 cm
Length	100 feet	30.4 meters
Area	400 sq ft	37.2 sq meters
Weight	55.6 lbs.	25.2 Kg

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