

## Description

Enkadrain 3615R is one of a new generation of environmentally conscious Enkadrain products. This drainage composite consists of a post-industrial recycled polypropylene drainage core of fused, entangled filaments and a geocomposite fabric bonded to one side. The entangled filaments are molded into a square waffle pattern that maintains the flexible design of other Enkadrain products. This product, because it exceeds 40% post-industrial recycled content, can help contribute up to 2 LEED points, when used in conjunction with other recycled content products. Enkadrain 3615R can contribute towards additional LEED points when used with a green roof by reducing stormwater runoff, heat islands and energy consumption.

## Recommended Applications

- Foundation walls
- Green roofs
- Plaza decks
- Retaining walls
- Beneath slabs
- Earth sheltered homes
- Underground parking
- Exterior planters

## Features and Benefits

- Excellent durability
- Protects waterproofing during and after backfill
- Conforms to irregular surfaces and corners
- Waffle design creates open flow path — even during backfill
- Continuous flow even under high loads
- Long rolls reduce installation costs by reducing butt seams and eliminating interlocking
- Recycled content polymer contributes towards LEED points
- Increased flow rates over same thickness nylon and HDPE drains
- Designed for higher load conditions
- 3" fabric overlap flap

## Technical Data

### Physical Properties

Property	English Units	Metric Units
Core Material	Recycled Polypropylene	
Thickness	0.45 in	11.43 mm
Total Weight	28.5 oz/yd <sup>2</sup>	966.4 g/m <sup>2</sup>
Core Weight	24.0 oz/yd <sup>2</sup>	813.8 g/m <sup>2</sup>
Colbond Compressive Load Test <sup>1</sup>	>30,000 psf	kN/m <sup>2</sup> No failure*

<sup>1</sup>Colbond Test Method: ASTM 1621 D modified and ASTM D 4716

\*Failure defined as reaching yield point or no continued measurable flow under stated load

### Flow Rates

Pressure	1.0 Gradient	0.5 Gradient	0.2 Gradient
250 psf	21.0 gal/min/ft	14.5 gal/min/ft	9.6 gal/min/ft
500 psf	21.0 gal/min/ft	13.8 gal/min/ft	8.2 gal/min/ft
1000 psf	19.7 gal/min/ft	13.0 gal/min/ft	8.0 gal/min/ft
2000 psf	19.0 gal/min/ft	14.1 gal/min/ft	8.0 gal/min/ft
3000 psf	18.9 gal/min/ft	13.2 gal/min/ft	7.7 gal/min/ft
3600 psf	18.9 gal/min/ft	12.9 gal/min/ft	7.5 gal/min/ft
5000 psf	18.1 gal/min/ft	12.2 gal/min/ft	7.5 gal/min/ft
8000 psf	11.1 gal/min/ft	7.1 gal/min/ft	4.1 gal/min/ft

Typical flow vs. pressure for vertical applications (ASTM D 4716) Sample Configuration: Plate/Enkadrain/Plate  
 Values are average of machine direction and cross machine direction test results

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## Technical Data

### Fabric Properties

Property	English Units	Metric Units	Test Method
Polymer	Polypropylene		
Fabric Color	Black		
Weight	4.5 oz/yd <sup>2</sup>	152.6 g/m <sup>2</sup>	ASTM D 5261
Grab Strength MD/CD	120.0 lbs	0.54 kN	ASTM D 4632
Grab Elongation	50%	50%	ASTM D 4632
Trapezoidal Tear	50.0 lbs	0.22 kN	ASTM D 4533
Puncture Strength	70.0 lbs	0.31 kN	ASTM D 4833
AOS (maximum average)	70 US Sieve	0.212 mm	ASTM D 4751
Flow Rate	120.0 gal/min/ft <sup>2</sup>	4887 l/sec/m <sup>2</sup>	ASTM D 4491
Permittivity	1.8 sec <sup>-1</sup>	1.8 sec <sup>-1</sup>	ASTM D 4491

Values are MARV Minimum Average Roll Value

### Polymer Properties

Polypropylene has excellent resistance to organic solvents, degreasing agents, acids, and alkalines. It has tensile strength superior to high density polyethylene. It has a low moisture absorption rate, is resistant to staining, and is very light weight.

### Packaging

Property	English Units	Metric Units
Product ID	3615-101-0001	
Core Width	39.0 in	99.1 cm
Length	100.0 ft	30.5 m
Area	36.0 yd <sup>2</sup>	30.1 m <sup>2</sup>
Area	324.0 ft <sup>2</sup>	30.1 m <sup>2</sup>
Roll Diameter	27.0 in	68.6 cm
Gross Roll Weight	77.0 lbs	34.9 kg