

## Enkadrain® 3615R

Drainage solutions



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

### Features and Benefits

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

### 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>
Low & Bonar Compressive Load Test <sup>1</sup>	> 30,000 psf	kN/m <sup>2</sup>

<sup>1</sup> Low & Bonar Test Method: ASTM D 1621 modified and ASTM D4716

#### Quality Assurance

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## Technical Data

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

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-1	1.8 sec-1	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	3615-101-1001	
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

\*Replaces Enkadrain 9010 and 9611.

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