

BUILDING

DRAINING SOLUTIONS

Enkadrain® 3615R

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
- Farth 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
- 3" fabric overlap flap

Technical Data

Physical Properties

Property	English Units	Metric Units		
Core Material	Recycled Polypropylene	Recycled Polypropylene		
Thickness	0.45 in	11.43 mm		
Total Weight	28.5 oz/yd ²	966.4 g/m²		
Core Weight	24.0 oz/yd ²	813.8 g/m ²		
Low & Bonar Compressive Load	kN/m²			

Quality Assurance

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¹Low & Bonar Test Method: ASTM D 1621 modified and ASTM D4716 * 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
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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 ²	152.6 g/m ²	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 ²	4887 l/sec/m ²	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 is 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 ²	30.1 m ²
Area	324.0 ft ²	30.1 m ²
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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Low & Bonar
PO Box 9600 / 688 TC Arnhem
The Netherlands
T +31 85 744 1300
F +31 85 744 1310

Low & Bonar Inc.PO Box 1057 / Enka, NC 28728
USA
T +1 828 665 5000

F +1 828 665 3737

Low & Bonar Shanghai Unit 1581 / 15F L'Ave Shanghai 99 Xiansia Rd Changning Dist Shanghai, PC 200051 China T +86 21 6057 7290

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