

EnkaDrain® 3611R Draining Solutions

Description EnkaDrain 3611R 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 has 40% post-industrial recycled content, can help contribute up to 2 LEED points when used in conjunction with other recycled content products. EnkaDrain 3611R can contribute towards additional LEED points when used with a green roof by reducing storm-water runoff, heat islands and energy consumption.

- Applications**
- Foundation walls
 - Green roofs
 - Plaza decks
 - Retaining walls
 - Beneath slabs
 - Earth sheltered homes

- Features and Benefits**
- Excellent durability
 - Continuous flow in all directions, even under high loads
 - Conforms to irregular surfaces and corners with complete and effective coverage
 - Long rolls reduce installation costs by eliminating interlocking and excessive seams
 - Protects waterproofing during and after backfill
 - Waffle design creates open flow path – even during backfill
 - Recycled content polymer contributes towards LEED points
 - Increased flow rates over same thickness nylon and HDPE drains
 - 3" fabric overlap flap

Physical Properties	Property	English Units	Metric Units
	Core Material	PP – 40% Recycled	
	Thickness	0.45 in	11.43 mm
	Total Weight	20.5 oz/yd ²	695.2 g/m ²
	Core Weight	16.0 oz/yd ²	542.6 g/m ²
	Low & Bonar Compressive Load Test ¹	> 30,000 psf	1436 kN/m ² / No failure*

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

Quality Assurance

The Quality Management System of Low & Bonar has been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request. The data reproduced in this document reflects our best knowledge at the time of issue. It is subject to change arising from new research and development, as are the properties of the products described. We do not accept any liability for results obtained by using this information or the products mentioned.
© Low & Bonar 2018

Flow Rates	Pressure	1.0 Gradient	0.5 Gradient	0.2 Gradient
	250 psf	22.5 gal/min/ft	15.5 gal/min/ft	9.2 gal/min/ft
	500 psf	22.0 gal/min/ft	15.2 gal/min/ft	8.7 gal/min/ft
	1000 psf	20.7 gal/min/ft	14.3 gal/min/ft	8.4 gal/min/ft
	2000 psf	19.0 gal/min/ft	13.1 gal/min/ft	8.3 gal/min/ft
	3000 psf	16.0 gal/min/ft	11.0 gal/min/ft	6.4 gal/min/ft
	3600 psf	13.0 gal/min/ft	8.7 gal/min/ft	5.4 gal/min/ft
	5000 psf	8.05 gal/min/ft	5.4 gal/min/ft	3.1 gal/min/ft
	8000 psf	3.2 gal/min/ft	2.0 gal/min/ft	1.1 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 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 has a low moisture absorption rate, is resistant to staining, and is very light weight.

Packaging	Property	English Units	Metric Units
	Product ID	3611-101-1001	
	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	68.7 cm
	Gross Roll Weight	54.0 lbs	29.1 kg

To the best of our knowledge, the information contained herein is accurate. However, Low & Bonar Inc. cannot assume any liability whatsoever for the accuracy or completeness thereof. Final determination of the suitability of any information or material for the use contemplated, of its manner of use and whether the suggested use infringes any patents is the sole responsibility of the user. These products may be covered by patents or patents pending.

Low & Bonar Inc.
 PO Box 1057 Enka, NC 28728
 USA
 T +1 828 665 5000
 F +1 828 665 3737

Disclaimer
 All information and product specifications provided in this document are accurate at the time of publication. As the Low & Bonar Group follows a policy of continuous development, the provided information and product specifications may change at any time without notice and must not be relied upon unless expressly confirmed by a relevant member of the Low & Bonar Group upon request. No liability is undertaken for results obtained by usage of the products and information.
 © 2018 Low & Bonar