

GREEN ROOFS

XF 3611R Drainage-Filter

Green Roof Drainage - intensive



Description

XF 3611R is a geo-composite composed of fused three-dimensional entangled filaments drainage core thermally bonded to a fleece. It has excellent compressive strength to maintain high drainage rate under loads. The drainage core is 95% open to divert stormwater quickly. It is water vapor permeable and diffusion open therefore suitable for installation on conventional and protected membrane roofs.

Recommended Applications

- Green roofs - intensive
- Exterior and interior planters
- Plaza deck
- Under paver drainage
- Under artificial turf
- Beneath slabs

Features and Benefits

- 3D open core provides a high drainage rate with minimal resistance
- Excellent compressive strength to maintain high drainage under loads
- Drainage core is resilient to transient loads and maintains flow
- Protects waterproofing during and after green roof installation
- Lightweight, flexible, easy and quick to install
- Conforms to irregular or curved roof surface
- Easy to cut and meet complicated landscape design requirements
- Durable, excellent chemical and biological resistances
- Recycled contents contributes towards LEED credits

Technical Data

Physical Properties	Property	US Customary Units	Metric Units
	Core Material	Recycled Polypropylene	
	Total Thickness	0.45 in	11.4 mm
	Total Weight	20.5 oz/yd ²	695 g/m ²
	Core Thickness	0.40 in	10.2 mm
	Core Weight	16.0 oz/yd ²	542 g/m ²

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

Technical Data

Flow Rates

Pressure	0.02 Gradient	0.05 Gradient	0.10 Gradient
25 psf	3.53 gal/min/ft	5.41 gal/min/ft	7.95 gal/min/ft
50 psf	3.47 gal/min/ft	5.44 gal/min/ft	8.06 gal/min/ft
100 psf	3.25 gal/min/ft	5.36 gal/min/ft	7.78 gal/min/ft
200 psf	3.26 gal/min/ft	5.10 gal/min/ft	7.50 gal/min/ft

Typical flow vs. pressure to similar green roof application (ASTM D 4716) Sample Configuration: Plate/Neoprene/Enkadrain/Plate

Pressure	0.02 Gradient	0.05 Gradient	0.10 Gradient
1.2 kPa	43.8 l/min/m	67.2 l/min/m	98.7 l/min/m
2.4 kPa	43.1 l/min/m	67.6 l/min/m	100.1 l/min/m
4.8 kPa	40.4 l/min/m	66.6 l/min/m	96.6 l/min/m
9.6 kPa	40.5 l/min/m	63.3 l/min/m	93.1 l/min/m

Typical flow vs. pressure to similar green roof application (ASTM D 4716) Sample Configuration: Plate/Neoprene/Enkadrain/Plate

Fabric Properties

Property	US Customary Units	Metric Units	Test Method
Polymer	Polypropylene	Polypropylene	
Fabric Color	Black	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	0.21 mm	ASTM D 4751
Flow Rate	120.0 gal/min/ft ²	81.3 l/s/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	US Customary Units	Metric Units
Product ID	3611-101-1001	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	68.6 cm
Gross Roll Weight	54.0 lbs	24.5 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
 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

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