

PRODUCT DATA SHEET

Drainage Composite 3811R

Drainage Composite 3811R is a prefabricated drainage composite

PRODUCT DESCRIPTION

Drainage Composite 3811R is a high quality prefabricated drainage composite designed to protect the waterproofing membrane and provide continuous free flow of water in horizontal applications such as green roofs, plaza decks, planters and earth sheltered structures.

USES

To create an open flow path to evacuate water from the system even under high loads.

AREAS OF APPLICATION

- Green Roofs
- Plaza Decks
- Planters
- Sheltered Structures

CHARACTERISTICS / ADVANTAGES

- Excellent resistance to biological and chemical degradation
- Ideal for soil environments
- Compatible with electronic leak detection systems

PRODUCT INFORMATION

Chemical Base	<ul style="list-style-type: none"> Post-industrial recycled polypropylene drainage core of fused, entangled filaments and a polypropylene geocomposite fabric bonded to the top side and a PA6 & polyester geocomposite fabric bonded to the bottom side Entangled filaments are molded into an open square waffle pattern 		
Recycled Content	40%		
Packaging	39" x 100 ft (1.0 m x 30.5 m) roll, 77 lbs (34.9 kg) per roll		
Appearance / Color	<ul style="list-style-type: none"> Top Fabric: Black Core: Black Bottom Fabric: Gray 		
Shelf Life	N/A		
Storage Conditions	N/A		
Thickness	0.45" (11.43 mm)		
Unit weight	Core Weight: 16 oz/yd ² (542.6 g/m ²)		
	Top Fabric	Bottom Fabric	(ASTM D-5261)
	4.5 oz/yd ² (152.6 g/m ²)	3.54 oz/yd ² (120 g/m ²)	

TECHNICAL INFORMATION

Resistance to Static Puncture	Top Fabric 70 lbs (0.31 kN)	Bottom Fabric 35 lbs (155 N)	(ASTM D-4833)
Tensile Strength	Top Fabric 120 lbs (0.54 kN) ¹	Bottom Fabric 125 lbs (556 N) ¹	(ASTM D-4632)
	¹ Machine Direction and Cross Machine Direction		
Elongation at Break	Top Fabric 50%	Bottom Fabric 40%	(ASTM D-4632)
Resistance to Tearing (nail shank)	Top Fabric 50 lbs (0.22 kN)	Bottom Fabric 40 lbs (177.9 N)	(ASTM D-4533)
Water permeability	Top Fabric 1.8 sec ⁻¹	Bottom Fabric 2.5 sec ⁻¹	(ASTM D-4491)
Design Considerations	Compressive Load ¹	>30,000 psf (1436 kN/m ²) / No failure ²	
	¹ ASTM D-1621 modified and ASTM D-4716.		
	² Failure defined as reaching yield point or no continued measurable flow under stated load.		
Opening size	Top Fabric 70 US Sieve (0.212 mm)	Bottom Fabric 45 US Sieve (0.357 mm)	(ASTM D-4751)
Flow Rate	Top Fabric 120 gal/min/ft ² (81.5 L/sec/m ²)	Bottom Fabric 185 gal/min/ft ² (125.6 L/sec/m ²)	(ASTM D-4491)

APPLICATION INSTRUCTIONS

APPLICATION

Drainage Composite 3811R is installed by an authorized Sika Sarnafil Waterproofing Applicator. The drainage composite is loosely laid over the completed waterproofing system. Butt drainage composites together and unfold the 3" (76 mm) fabric overlap onto the top of the adjacent composite to provide continuity. Tape or adhere all fabric overlaps, and tape all butt end joints. Cut drainage composite neatly to fit around penetrations and projections.

MAINTENANCE

Standard maintenance of Sarnafil systems should include regular inspections of flashings, drains and termination sealants at least twice a year and after each storm.

AVAILABILITY/WARRANTY

AVAILABILITY

From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil systems.

WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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Drainage Composite 3811R
October 2020, Version 03.01
020945051350001007

DrainageComposite3811R-en-US-(10-2020)-3-1.pdf

