Enka® Solutions

Technical Data Sheet

EnkaDrain®W 3801
Draining Solutions

Description

EnkaDrain®W 3801 is a new thin drainage composite which is part of the EnkaDrain® family of environmentally conscious products. It consists of a post-industrial recycled white polypropylene drainage core and a very strong but lightweight white Colback® filter fabric thermally bonded to one side and a grey Colback® fabric bonded to the other. The U groove entangled filament configuration is protected from UV degradation for up to 30 days. 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®W 3801 can contribute towards additional LEED points when used with a green roof by reducing stormwater runoff, heat islands and energy consumption.

Applications

- Split slab construction
- Plaza decks
- Under pavers
- Green roofs
- Foundation walls

Features and Benefits

- Excellent durability
- Reflects heat to prevent insulation board warping & membrane softening during construction
- Continuous flow in all directions, even under high loads
- Protects waterproofing during construction
- Conforms to irregular surfaces and corners
- Long rolls reduce installation costs by reducing butt seams and eliminating interlocking
- Recycled content polymer contributes towards LEED points
- 3” fabric overlap flap

Physical Properties

Property	English Units	Metric Units
Core Material	PP – 40% Recycled	
Thickness	0.30 in	7.6 mm
Total Weight	21.9 oz/yd 2	742.6 g/m^2
Core Weight	21.9 oz/yd 2	542.6 g/m^2

[1] Low & 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.

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Flow Rates

Pressure	1.0 Gradient
500 psf	10.55 gal/min/ft
1000 psf	9.71 gal/min/ft
2000 psf	8.34 gal/min/ft
3000 psf	6.63 gal/min/ft
4000 psf	4.99 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	PA6 & PET		
Fabric Color	White/Grey		
Weight	2.95 oz/yd^2	100.0 g/m^2	ASTM D 3776
Grab Strength MD/CD	125.0 lbs	556 N	ASTM D 4632
Grab Elongation	40%	40%	ASTM D 4632
Trapezoidal Tear	40.0 lbs	178.0 N	ASTM D 4533
Puncture Resistance	35.0 lbs	155 N	ASTM D 4833
AOS (maximum average)	-	0.357 mm	ASTM D 4751
Flow Rate	185.0 gal/min/ft^2	125 l/sec/m^2	ASTM D 4491
Permittivity	2.5 sec^{-1}	2.5 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	3801-185-3900	
Core Width	39.0 in	99.1 cm
Length	185.0 ft	56.4 m
Area	67.0 yd^2	56.4 m^2
Area	601.3 ft^2	56.0 m^2
Roll Diameter	25.0 in	63.0 cm
Gross Roll Weight	97.0 lbs	37.5 kg

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