enka®solutions

TECHNICAL DATASHEET

ENKADRAIN® 3807

DRAINING SOLUTIONS

EnkaDrain® W 3807 is a new thin drainage composite which is part of the EnkaDrain® family. It consists of a white polypropylene drainage core and a very strong but lightweight white Colback® filter fabric thermally bonded to one side. The U groove entangled filament configuration is protected from UV degradation for up to 30 days. EnkaDrain® W 3807 can contribute towards LEED points when used with a green roof by reducing stormwater runoff, heat islands and energy consumption.

RECOMMENDED APPLICATIONS

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

FEATURES AND BENEFITS

- Excellent durability
- Protects waterproofing during and after backfill
- Conforms to irregular surfaces and corners with complete and effective coverage
- Waffle design creates open flow path – even during backfill
- Continuous flow in all directions, even under high loads
- Long rolls reduce installation costs by reducing butt seams and eliminating interlocking
- 3” fabric overlap flap
- Increased flow rates over same thickness nylon and HDPE drains

PHYSICAL PROPERTIES

	UNITS	UNITS (METRIC)	
Core Material	Polypropylene		
Thickness	0.275 in	6.98 mm	
Total Weight	21.9 oz/yd^2	742.5 g/m^2	
Core Weight	16.0 oz/yd^2	542.5 g/m^2	

1 Test Method: ASTM D 1621 modified and ASTM D4716
* Failure defined as reaching yield point or no continued measurable flow under stated load

FLOW RATE

PRESSURE	1.0 GRADIENT	0.5 GRADIENT	0.2 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			

FABRIC PROPERTIES

	UNITS	UNITS (METRIC)	TEST METHOD	
Polymer	PA6 & PET			
Fabric Color	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 Strength	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

	UNITS	UNITS (METRIC)
Product ID	3807-061-39PL	
Core Width	39.0 in	99.1 cm
Length	185.0 ft	56.4 m
Area	66.8 yd2	55.8 m2
Area	601.3 ft2	55.8 m2
Roll Diameter	TBD in	TBD cm
Gross Roll Weight	95.7 lbs	43.4 kg

AVAILABILITY

Please contact your nearest Sales Office for details.

Quality Assurance
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Freudenberg Performance Materials • USA • 1301 Sand Hill Road, Enka, NC, 28728 • T +1 828-665-5000 • Info@enkasolutions.com • www.freudenberg-pm.com • www.enkasolutions.com

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