enka®solutions

TECHNICAL DATASHEET

ENKADRAIN® 3611

DRAINING SOLUTIONS

EnkaDrain 3611 is a drainage composite mat used in multiple building applications. This drainage composite consists of a polypropylene drainage core with 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 Enka-drain products. Enkadrain 3611 can contribute towards LEED points when used with a green roof by reducing storm-water runoff, heat islands and energy consumption.

RECOMMENDED APPLICATIONS

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

FEATURES AND BENEFITS

- Excellent durability
- Protects waterproofing during and after backfill
- Conforms to irregular surfaces and corners
- Waffle design creates open flow path, even during backfill
- Continuous flow 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	0.50 in	12.7 mm	
Total Weight	20.5 oz/yd2	695.2 g/m2	
Core Weight	16.0 oz/yd2	542.6 g/m2	
Compressive Load Test[1]	> 30,000 psf	1436 kN/m2 / No failure*	

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	
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	

FLOW RATE (CONTINUED)				
PRESSURE	1.0 GRADIENT	0.5 GRADIENT	0.2 GRADIENT	
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	

FABRIC PROPERTIES				
	UNITS	UNITS (METRIC)	TEST METHOD	
Polymer	Polypropylene		ASTM D 5261	
Fabric Color	Black		ASTM D 4632	
Weight	4.5 oz/yd^2		ASTM D 4632	
Grab Strength MD/CD	120.0 lbs	0.54 kN	ASTM D 4533	
Grab Elongation	50%	50%	ASTM D 4833	
Trapezoidal Tear	50.0 lbs	0.22 kN	ASTM D 4751	
Puncture Strength	70.0 lbs	0.31 kN	ASTM D 4491	
AOS (maximum average)	70 US Sieve	0.212 mm	ASTM D 4491	
Flow Rate	120.0 gal/min/ft^2	4887 l/sec/m^2	ASTM D 5261	
Permittivity	1.8 sec^{-1}	1.8 sec^{-1}	ASTM D 4632	

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	3611-101-1003	99.1 cm
Core Width	39.0 in	30.5 m
Length	100.0 ft	30.1 m^2
Area	36.1 yd^2	99.1 cm

PACKAGING (CONTINUED)		
	UNITS	UNITS (METRIC)
Area	325.0 ft^2	30.1 m^2
Roll Diameter	27.0 in	68.7 cm
Gross Roll Weight	49.0 lbs	22.2 kg

AVAILABILITY

Please contact your nearest Sales Office for details.

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