

## Enkadrain<sup>®</sup> 3801

Bonar Building Products — Drainage



### Description

Enkadrain 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 strong 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 30 days. This products post-industrial recycled content, can help contribute up

to 2 LEED points when used in conjunction with other recycled content products. Enkadrain 3801 can contribute towards other LEED points when used with a green roof by reducing stormwater runoff, heat islands & energy consumption.

### Recommended 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 on both front a back fabrics

### Technical Data

#### Physical Properties

Property	English Units	Metric Units
Core Material	Polypropylene—40% Recycled	Polypropylene—40% Recycled
Thickness	0.30 in	7.6 mm
Total Weight	21.9 oz/yd <sup>2</sup>	742.6 g/m <sup>2</sup>
Core Weight	16.0 oz/yd <sup>2</sup>	542.6 g/m <sup>2</sup>

<sup>1</sup> Bonar Test Method: ASTM D 1621 modified and ASTM D4716

\* Failure defined as reaching yield point or no continued measurable flow under stated load

#### 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.

## Technical Data

### 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 <sup>2</sup>	100.0 g/m <sup>2</sup>	ASTM D 5261
Grab Strength MD/CD	125.0 lbs	556.0 N	ASTM D 4632
Grab Elongation	40%	40%	ASTM D 4632
Trapezoidal Tear	40.0 lbs	177.9 N	ASTM D 4533
Puncture Strength	35.0 lbs	155.0 N	ASTM D 4833
AOS (maximum average)		0.357 mm	ASTM D 4751
Flow Rate	185.0 gal/min/ft <sup>2</sup>	125.6 l/sec/m <sup>2</sup>	ASTM D 4491
Permittivity	2.5 sec <sup>-1</sup>	2.5 sec <sup>-1</sup>	ASTM D 4491

Values are MARV Minimum Average Roll Value

### Packaging

Property	English Units	Metric Units
Product ID	3801-050-4800	
Core Width	48.0 in	121.9 cm
Length	50 ft	15.2 m
Area	22.2 yd <sup>2</sup>	18.6 m <sup>2</sup>
Area	200 ft <sup>2</sup>	18.6 m <sup>2</sup>
Roll Diameter	15 in	38.1 cm
Gross Roll Weight	32.0 lbs	14.5 kg

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