

Enkadrain[®] 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 ²	742.6 g/m ²
Core Weight	16.0 oz/yd ²	542.6 g/m ²

¹ 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 ²	100.0 g/m ²	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 ²	125.6 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

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 ²	18.6 m ²
Area	200 ft ²	18.6 m ²
Roll Diameter	15 in	38.1 cm
Gross Roll Weight	32.0 lbs	14.5 kg

To the best of our knowledge, the information contained herein is accurate. However, Bonar Inc. cannot assume any liability whatsoever for the accuracy or completeness thereof. Final determination of the suitability of any information or material for the use contemplated, of its manner of use and whether the suggested use infringes any patents is the sole responsibility of the user. These products may be covered by patents or patents pending.