



ENKADRAIN® 3811R

BUILDING 3D MATS - 3D DRAINAGE

PRODUCT DESCRIPTION

Enkadrain® 3811R is one of a new generation of environmentally conscious Enkadrain® products. This drainage composite consists of a post-industrial recycled polypropylene drainage core of fused, entangled filaments and a geocomposite fabric bonded to each side. The entangled filaments are molded into a square waffle pattern that maintains the flexible design of other Enkadrain® products. This product, because it exceeds 40% post-industrial recycled content, can help contribute up to 2 LEED points when used in conjunction with other recycled content products. Enkadrain® 3811R can contribute towards additional LEED points when used with a green roof by reducing stormwater runoff, heat islands, and energy consumption. The second fabric eliminates the need for protection board and stops penetration and migration of bitumen membrane.

FEATURES & BENEFITS

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

APPLICATIONS

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

PHYSICAL PROPERTIES

Property	Imperial	Metric
Core Material	Recycled PP	
Total Weight (avg.)	23.7 oz/yd ²	803.7 g/m ²
Core Thickness	0.45 in	11.43 mm
Core Weight (avg.)	16.0 oz/yd ²	542.6 g/m ²

FABRIC 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.

FLOW RATES

Pressure	1.0 Gradient	0.5 Gradient	0.2 Gradient
250 psf	20.2 gal/min/ft	13.6 gal/min/ft	7.7 gal/min/ft
500 psf	18.1 gal/min/ft	12.4 gal/min/ft	7.3 gal/min/ft
1000 psf	17.9 gal/min/ft	12.2 gal/min/ft	7.2 gal/min/ft
2000 psf	16.8 gal/min/ft	11.2 gal/min/ft	7.0 gal/min/ft
3000 psf	12.9 gal/min/ft	7.9 gal/min/ft	4.9 gal/min/ft
3600 psf	8.6 gal/min/ft	4.7 gal/min/ft	2.8 gal/min/ft
5000 psf	3.8 gal/min/ft	2.5 gal/min/ft	1.3 gal/min/ft
8000 psf	1.7 gal/min/ft	1.0 gal/min/ft	0.5 gal/min/ft

PACKAGING

PROPERTY	IMPERIAL	METRIC
Core Width	39.0 in	99.1 cm
Length	100 ft	30.5 m
Area	36 yd ²	30.1 m ²
Roll Diameter	27.0 in	68.7 cm
Gross Roll Weight	64.2 lbs	291. kg

FABRIC PROPERTIES

PROPERTIES	TEST METHOD	IMPERIAL	METRIC	IMPERIAL	METRIC
		(BLACK) FABRIC COLOR	(BLACK) FABRIC COLOR	(GREY) FABRIC COLOR	(GREY) FABRIC COLOR
Polymer		PP		PA6 & PET	
Weight	ASTM D-5261	4.5 oz/yd ²	152.6 g/m ²	3.54 oz/yd ²	120.0 g/m ²
Grab Strength	ASTM D-4632	120.0 lbs	0.54 kN	125.0 lbs	556 N
Grab Elongation	ASTM D-4632	50%	50%	40%	40%
Trapezoidal Tear	ASTM D-4533	50 lbs	0.22 kN	40 lbs	177.9 N
Puncture Resistance	ASTM D-4833	70 lbs	0.31 kN	35 lbs	155.0 N
AOS (maximum average)	ASTM D-4751	70 US Sieve	0.212 mm	45 US Sieve	0.357 mm
Flow Rate	ASTM D-4491	120.0 gal/min/sq.ft	4887 l/sec/sq.m	185.0 gal/min/sq. ft	125.6 l/sec/sq.m
Permittivity	ASTM D-4491	1.8 sec ⁻¹	1.8 sec ⁻¹	2.5 sec ⁻¹	2.5 sec ⁻¹

NOTE: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. AMERICOVER, INC. MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage. Limited Warranty available at www.Americover.com

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