



Enkadrain[®] 9120

Colbond Building Products — Drainage

Description

Enkadrain 9120 is a drainage product consisting of a nylon core of fused, entangled filaments and a geotextile fabric bonded to one side. The product is used as a means of relieving hydrostatic pressure from backfills abutting below grade structures, planters and for lateral drainage of roof decks.

Recommended Applications

- Retaining walls
- Underground parking
- Residential basements
- Beneath slabs
- Earth sheltered homes
- Pavements
- Interior planters
- Exterior planters
- Commercial buildings

Features and Benefits

- Excellent durability
- Protects waterproofing during and after backfill
- Conforms to irregular surfaces and corners with complete and effective coverage
- Long rolls reduce installation costs by eliminating interlocking and excessive seams
- Continuous drain flow even under high loads
- Dimensionally stable in hot weather — not brittle in cold
- Geometric structure creates safe flow path even during backfill

Technical Data

Physical Properties

Property	English Units	Metric Units
Core Material	Nylon 6	
Thickness	0.8 in	20.3 mm
Total Weight	25.6 oz/yd ²	868.0 g/m ²
Core Weight	21.3 oz/yd ²	722.0 g/m ²
Colbond Compressive Load Test ¹	>30,000 psf	4713.0 kN/m ² *No failure
Durability Characteristics	80% Strength Retention	
Low Temperature	-100° F	-73° C
High Temperature	250° F	121° C
Fuel & Gasoline Submersion	Stable	

¹Colbond Test Method: ASTM D 1621 modified & ASTM D 4716

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

Flow Rates

Pressure	1.0 Gradient
500 psf	17.5 gal/min/ft
750 psf	12.0 gal/min/ft
1000 psf	8.0 gal/min/ft
1500 psf	4.5 gal/min/ft
2000 psf	3.0 gal/min/ft

*Typical flow rate vs. pressure for vertical wall applications (ASTM 4716)

Sample configuration: plate / Enkadrain 9120 / plate

Colbond Inc.

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To the best of our knowledge, the information contained herein is accurate. However, Colbond 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.

Technical Data

Fabric Properties

Property	English Units	Metric Units	Test Method
Polymer	PA6 & PET		
Fabric Color	Grey		
Weight	3.54 oz/yd ²	120.0 g/m ²	ASTM D 3776
Grab Strength	125.0 lbs	556.0 N	ASTM D 4632
Grab Elongation	40%	40%	ASTM D 4632
Trapezoidal Tear	40.0 lbs	178.0 N	ASTM D 4533
Puncture Resistance	35.0 lbs	155.0 N	ASTM D 4833
Mullen Burst	160.0 psi	1102.0 kPa	ASTM D 3786
AOS (maximum average)		0.357 mm	ASTM D 4751
Flow Rate	185.0 gpm/ft ²	125.0 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

Nylon has excellent resistance to a variety of chemicals, alkalines, dilute acids, fuels and solvents found on construction sites. It is lightweight, but also is very wear and abrasion resistant. Nylon also has high tensile strength and a high heat distortion temperature.

Packaging

Property	English Units	Metric Units	English Units	Metric Units
Product ID	9120-101-000C		9120-101-0C50	
Core Width	39.0 in	99.1 cm	39.0 in	99.1 cm
Length	100.0 ft	30.5 m	50.0 ft	15.3 m
Area	36.0 yd ²	30.1 m ²	18.0 yd ²	15.0 m ²
Area	324.0 ft ²	30.1 m ²	162 ft ²	15.0 m ²
Roll Diameter	35.0 in	88.9 cm	24.0 in	61.0 cm
Gross Roll Weight	62.0 lbs	28.1 kg	31.0 lbs	14.1 kg

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