

# Enkadrain<sup>®</sup> 9010

Colbond Building Products

MASONPRO, Inc.  
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**Description** Enkadrain 9010 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 plaza decks. Enkadrain 9010 is also designed for use with traditional stucco and cultured stone applications as an exterior wall drain. This rainscreen drain provides a drainage path and ventilation for incidental moisture between exterior wall finish materials and weather barrier sheathing.

- Recommended Applications**
- Retaining walls
  - Underground parking
  - Residential basements
  - Interior planters
  - Beneath slabs
  - Earth sheltered homes
  - In walls behind traditional stucco on lathe
  - In walls behind cultured stone on lathe
  - Exterior planters

- Features and Benefits**
- Excellent durability
  - Protects waterproofing drain 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 flow even under high loads
  - Dimensionally stable in hot weather — not brittle in cold
  - Redirects and draws moisture away from vulnerable wall sheathing materials
  - Filter fabric assures drain paths remains completely clear of stucco or mortar
  - Continuously ventilates — removing incidental moisture from wind driven rain pressure differential

## Technical Data

### Physical Properties

Property	English Units	Metric Units
Core Material	Nylon 6	
Thickness	0.4 in	10.2 mm
Total Weight	14.1 oz/yd <sup>2</sup>	478.0 g/m <sup>2</sup>
Core Weight	10.9 oz/yd <sup>2</sup>	369.0 g/m <sup>2</sup>
Colbond Compressive Load Test <sup>1</sup>	>30,000 psf	1437.0 kN/m <sup>2</sup>
No Failure*		
Durability Characteristics	80 % Strength Retention	
Low Temperature	-100° F	-73° C
High Temperature	250° F	121° C
Fire Rating	NFPA Class A <sup>2</sup>	
Smoke Density	15	
Flame Spread	25	
Fuel Contribution	0	

<sup>1</sup> Colbond Test Method: ASTM 1621 modified & ASTM D 4716

<sup>2</sup> Will not promote flame spread

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

Colbond Inc.  
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## Flow Rates

Pressure	Gal/Min/Ft
500 psf	5.5
750 psf	3.5
1000 psf	2.5
1500 psf	1.5
2000 psf	1.0

## Fabric Properties

Property	English Units	Metric Units	Test Method
Polymer	PA6 & PET		
Weight	3.2 oz/yd <sup>2</sup>	109.0 g/m <sup>2</sup>	ASTM D 3776
Grab Strength	125.0 lbs	556.0 N	ASTM D 4632
Grab Elongation	40.0%	40.0%	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 <sup>2</sup>	125.0 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
Fabric Color	Grey		

## 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
Product ID	9010-101-000C	
Core Width	39.0 in	99.1 cm
Length	100.0 ft	30.5 m
Area	36.0 yd <sup>2</sup>	30.1 m <sup>2</sup>
Area	324.0 ft <sup>2</sup>	30.1 m <sup>2</sup>
Roll Diameter	24.0 in	61.0 cm
Gross Roll Weight	36.0 lbs	15.9 kg

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