

Description

Enkaturf Drain 9320 is a 6 inch wide strip drain product consisting of a one inch thick nylon core of fused, entangled filaments completely encased in a nonwoven heat-bonded geotextile fabric. Enkaturf Drain strips eliminate the need for perforated drainage pipe and the associated ordeal of installing a larger diameter drain with surrounding aggregate.

Recommended Applications

- Playgrounds
- Playing fields
- Footing drain
- Tunnel drainage
- Low-lying area drainage
- Perforated pipe replacement
- Exterior and interior planters
- Ball diamonds
- Golf courses

Features and Benefits

- Excellent durability
- Thin profile significantly reduces turf trauma during installation
- Conforms to irregular surfaces and corners with complete and effective coverage
- Geometric structure creates safe flow path even during backfill
- Continuous flow even under high loads
- Long rolls reduce installation costs by eliminating interlocking and excessive seams

Technical Data

Physical Properties

Property	English Units	Metric Units
Core Material	Nylon 6	
Core Color	Black	
Thickness w/fabric	0.9 in	23.0 mm
Total Weight	31.7 oz/yd ²	1075.0 g/m ²
Core Weight	21.6 oz/yd ²	732.0 g/m ²
Durability Characteristics	80% Strength Retention	
Low Temperature	-100° F	-73° C
High Temperature	250° F	121° C
Fuel & Gasoline Submersion	Stable	

Flow Rates

Pressure	0.05 gradient	0.10 gradient	0.25 gradient
250 psf	5.0 gal/min/ft	8.0 gal/min/ft	14.5 gal/min/ft
500 psf	4.5 gal/min/ft	7.0 gal/min/ft	12.0 gal/min/ft
750 psf	3.7 gal/min/ft	6.0 gal/min/ft	10.0 gal/min/ft
1000 psf	3.2 gal/min/ft	5.0 gal/min/ft	9.0 gal/min/ft

Typical flow vs. pressure for vertical applications (ASTM D 4716) Sample Configuration: Plate / Enkadrain / Plate

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

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	9320-306-1032		9320-306-1012	
Rolls Per Package	3 rolls @ 50 ft each		1 roll @ 50 ft each	
Roll Diameter	23.0 in	58.4 cm	23.0 in	58.4 cm
Core Width	6.0 in	15.2 cm	6.0 in	15.2 cm
Total Length Per Pkg	150.0 ft	45.7 m	50.0 ft	15.2 m
Area Per Roll	2.8 yd ²	2.3 m ²	2.8 yd ²	2.3 m ²
Area Per Package	8.34 yd ²	7.0 m ²	2.8 yd ²	2.3 m ²
Gross Package Weight	16.5 lbs	7.5 kg	5.5 lbs	2.5 kg

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