

## Description

Enkaturf Drain 9323 is a 12 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	31.3 oz/yd <sup>2</sup>	1061.0 g/m <sup>2</sup>
Core Weight	20.6 oz/yd <sup>2</sup>	698.0 g/m <sup>2</sup>
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 / Enkaturf 9323 / Plate*

## Technical Data

### Fabric Properties

Property	English Units	Metric Units	Test Method
<i>Polymer</i>	PA6 & PET		
<i>Fabric Color</i>	Grey		
<i>Weight</i>	3.54 oz/yd <sup>2</sup>	120.0 g/m <sup>2</sup>	ASTM D 3776
<i>Grab Strength</i>	125.0 lbs	556.0 N	ASTM D 4632
<i>Grab Elongation</i>	40%	40%	ASTM D 4632
<i>Trapezoidal Tear</i>	40.0 lbs	178.0 N	ASTM D 4533
<i>Puncture Resistance</i>	35.0 lbs	155.0 N	ASTM D 4833
<i>Mullen Burst</i>	160.0 psi	1102.0 kPa	ASTM D 3786
<i>AOS (maximum average)</i>	45	0.357 mm	ASTM D 4751
<i>Flow Rate</i>	185.0 gpm/ft <sup>2</sup>	125.0 l/sec/m <sup>2</sup>	ASTM D 4491
<i>Permittivity</i>	2.5 sec <sup>-1</sup>	2.5 sec <sup>-1</sup>	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
<i>Product ID</i>	9323-EX1-1302	
<i>Rolls Per Package</i>	1	
<i>Roll Diameter</i>	36.0 in	91.4 cm
<i>Core Width</i>	12 in	30.0 cm
<i>Total Length Per Pkg</i>	100 ft	30.0 m
<i>Area Per Roll</i>	10.8 yd <sup>2</sup>	9.1 m <sup>2</sup>
<i>Area Per Package</i>	10.8 yd <sup>2</sup>	9.1 m <sup>2</sup>
<i>Gross Package Weight</i>	22.0 lbs	9.75 kg

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