

Enka®Turf Drain 9323 Field Drain Solutions

Description EnkaTurf Drain 9323 is a 12 inch wide strip drain product consisting of a 1 inch thick nylon core of fused, entangled filaments completely encased in a nonwoven heat-bonded geotextile fabric. EnkaTurf Drain 9323 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**
- 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
 - Excellent durability
 - Long rolls reduce installation costs by eliminating interlocking and excessive seams

Physical Properties	Property	English Units	Metric Units
	Core Material	Nylon 6	
	Thickness	0.9 in	23.0 mm
	Total Weight	31.3 oz/yd ²	1,061.0 g/m ²
	Core Weight	20.6 oz/yd ²	698.0 g/m ²
	Color	Black	
	Low Temperature	- 100° F	- 73° C
	High Temperature	250° F	121° C
	Durability Characteristics	80% Strength Retention	
	Fuel and Gasoline Submersion	Stable	

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.

Flow Rates	Pressure	0.05 Gradient	0.1 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	

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 MD/CD	125.0 lbs	556 N		ASTM D 4632
Grab Elongation	40%	40%		ASTM D 4632
Trapezoidal Tear	40.0 lbs	178.0 N		ASTM D 4533
Puncture Strength	35.0 lbs	155 N		ASTM D 4833
Mullen Burst	160.0 psi	1102.0 kPa		ASTM D 3786
AOS (maximum average)	45	0.357 mm		ASTM D 4751
Flow Rate	185.0 gal/min/ft ²	125 l/sec/m ²		ASTM D 4491
Permittivity	2.5 sec ⁻¹	2.5 sec-1		ASTM D 4491

Packaging	Property	English Units	Metric Units
	Product ID	9323-EX1-1302	
Rolls Per Package	1		
Roll Diameter	36.0 in	91.4 cm	
Core Width	12.0 in	30.0 cm	
Total Length Per Pkg	100.0 ft	30.0 m	
Area Per Roll	10.8 yd ²	9.1 m ²	

Availability Manufactured in Germany and USA, delivered worldwide. For additional details contact your nearest sales office.



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Quality Assurance

The Quality Management System of Low & Bonar has been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request.

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