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Specification Sheet for the Gutter Eel

Product Description:

The Gutter Eel is a highly effective sediment-control product used at construction sites to prevent suspended soils from contaminating area streams and wetlands during storm events. It is sediment tube filled with an effective filter ballast material, consisting of 100% shredded, recycled tire rubber.

Applications:

The Gutter Eel is used on any active construction site where soils have been disturbed. The Eel is used to filter runoff from construction sites at stormwater inlets.

Product Dimensions and Weights:

The Gutter Eel comes as a weighted sediment tube filter with a diameter of 9.5-inches (24-cm) on the ends, tapering to 5 inches (12.7-cm) diameter at the center. Manufactured lengths for the Gutter Eel are 6 feet (1.8 m) and 9 feet (2.7 m). The Gutter Eel has a built-in triangular overflow weir to evacuate excess flow during high-intensity storm events.

The unit weight per ft for the Gutter Eel is approximately 13 lbs/ft (19.4 kg/m).

Interior Filter Material:

Shredded, recycled used tire rubber particles. Greater than 98% of metal is removed from shredded rubber filtrate material. The rubber is washed during manufacturing.

Interior Filter Material Particle Size Gradation:

¹/₂ inch to ³/₄ inch particle size for the Gutter Eel.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Wide Width Tensile Strength	ASTM D 4595	kN/m (lbs/in)	40.273 (230)	39.398 (225)
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400)	1.491 (335)
Grab Tensile Elongation	ASTM D 4632	%	20	15
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.645 (145)	0.556 (125)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	4478.5 (650)	
Puncture Strength	ASTM D 4833	kN (lbs)	0.556 (125)	
Apparent Opening Size (AOS)	ASTM D 4751	mm	0.	60
		(U.S. Sieve)	(3	0)
Percent Open Area	COE-22125	%	8	
Permittivity	ASTM D 4491	sec ⁻¹	1.5	
Permeability	ASTM D 4491	cm/sec	0.13	
Flow Rate	ASTM D 4491	l/min/m ²	4685.1	
		(gal/min/ft ²)	(1)	15)
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	90	

Geotextile Bag Specifications:

Physical Properties	Test Method	Unit	Typical Value
Mass/Unit Area	ASTM D 5261	g/m² (oz/yd²)	271.2 (8.0)
Thickness	ASTM D 5199	mm (mils)	0.889 (35)
Roll Dimensions (width x length)		m (ft)	3.8 (12.5) x 91 (300)
Roll Area		m² (yd²)	348 (417)
Estimated Roll Weight		kg (lbs)	100 (221)

Clean Water Hydraulic Flow Rates:

Flow through tube at maximum head at the invert of the overflow weir is 14 gpm/ft (53 liters per minute) length.

Flow Depth	Approximate Flow	Approximate Total Flow
(inches)	Through Weir Only (in	Range (in gallons per
	gallons per minute for	minute) for single weir
	single weir opening)	plus flow through 9 ft
		long Gutter Eel bag
1	10	135
2	50	175
3	135	260
4	250	375
5	500	625

Flow through the trapezoidal weir is give as follows:

Installation Requirements:

Each Eel is designed with high-strength handles. One can move the Eels either manually (e.g., two individuals holding onto the handles at either ends of the Eel, or one person dragging the Eel by one of the end handles) or it can be moved mechanically using any number of different types of construction equipment. Place the Gutter Eel along the opening of the inlet, maintaining open freeboard for the overflow weir. A minimum 12 inches of overlap on each end of the curb opening is required.

Refer to the installation drawings provided by the distributor for more detailed installation requirements.

Storage Requirements:

It is recommended to keep the Eels stored either indoors or, if stored outside, keep the Eels covered to minimize UV exposure to prolong the geotextile life.

Expected Life:

Assuming there is no physical damage inflicted on the Eel from construction activities or vandalism, the service life of the Eel is estimated to be, on the average, approximately 2 years. This is based on the internal pore storage space within the Eel to trap particles under varied construction conditions. The overall maximum life is anticipated to be around 3 years.

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Disclaimer/Warranty

Seller makes no warranty, expressed or implied, concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. Any implied warranty of fitness for a particular purpose is expressly excluded, and, to the extent that it is contrary to the foregoing sentence, any implied warranty of merchantability is expressly excluded. Any recommendations made by the Manufacturer/Seller concerning the use or application of said product are believed reliable and the Manufacturer /Seller makes no warranty of results to be obtained. If the product does not meet current Manufacturer-published specifications, and the customer gives notice to the Manufacturer/Seller before installing the product, then the Manufacturer/Seller will replace the product without charge or refund the purchase price.

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