COIR INLET FILTER
INLET PROTECTION DEVICE

Installation and Maintenance Guide

1. Remove sediment, debris, ice and snow from the inlet grate surface and surrounding area.

2. Verify fit by placing filter over inlet grate to ensure that Inlet Filter extends at least one inch beyond the front and both curb ends. The overlap slows water flow and starts filtering sediment and debris before water drops into the inlet. The user is responsible for proper installation.

3. Position the mat. Place Inlet Filter on grate with the net side down, flush to the back edge and extending beyond the grate opening on the front and both sides. The zip ties attach Inlet Filter to the inlet grate cover WITHOUT LIFTING THE GRATE COVER.

4. Insert zip ties. Lift Inlet Filter slightly to enable you to see the first grate bar from the edge of the grate cover.

Push the zip tie down through the Inlet Filter and loop under the grate bar. Insert the pointed end of the zip tie about 2" away from the first zip tie penetration and push back up through the filter.

Push the pointed end of the zip tie into the receiving end just enough to hold ends loosely. LEAVE ZIP TIES LOOSE UNTIL ALL TIES ARE LOOPED THROUGH THE MATS AROUND THE GRATES. Repeat Step 4 until all zip ties are installed loosely.

5. Tighten zip ties. After attaching all of the zip ties, re-position Inlet Filter to completely cover and overlap the grate. Pull free end of zip-ties hand tight to anchor Inlet Filter to the grate. Cut off free end of zip ties to leave a 1" tail.

6. Extreme flow installation requirements. Some Municipalities require exposed overflow. Check local regulations. Exposing the emergency overflow allows unfiltered flow when water depth exceeds Inlet Filter height. If necessary, cut Inlet Filter with a knife or shears to expose the upper portion of the overflow section. Allow the standard overlap on all sides of Inlet Filter before cutting.

MAINTENANCE
Inlet Filter will collect a lot of sediment. Sweep top and sides of Inlet Filter to remove sediment and debris after each ½" rain event. In case of standing water at inlet, sweeping away built-up debris allows water to drain through Inlet Filter.

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Coir Inlet Filter Specifications

Coir Inlet Mat shall be applied as a storm water silt filter at sewer inlets. Cut the mat to allow 3" overlap at each side of the grate. Attach the mat to the topside of the inlet grate using wire or plastic ties. Clean silt from Coir Inlet Mat and surrounding area following each rainfall.

Coir Inlet Mat is composed of 100% coir fiber bonded to a fiberglass mesh backing.

TRI Environmental, Inc. provided the following test results:
UV Resistance (ASTM D 4355 – 500 hour exposure)
Tensile Properties (ASTM D 5035/ECTC)
(4 inch wide strip specimen)

Baseline Properties		**500 Hour Exposed Properties**	
MD – Maximum Load (ppi)	14.6	MD – Maximum Load (ppi)	10.2
TD – Maximum Load (ppi)	18.7	TD – Maximum Load (ppi)	13.8
MD – Elongation @ Max Load (%)	19.3	MD – Elongation @ Max Load (%)	16.9
TD – Elongation @ Max Load (%)	27.7	TD – Elongation @ Max Load (%)	16.6

Light Penetration (ECTC Guidelines)	
Baseline Reading	125
Reading with sample	10
% Light Penetration	<8

Resiliency (ASTM D 6524)	
Pre-loading thickness (mils)	1943
Post-loading thickness (mils)	326
% change	-83

Swell (ECTC)	
Dry thickness (mils)	1984
Thickness after soak (mils)	2098
% change	6

Mass/Unit Area (ASTM D 6565)	
Mass/unit area (oz/sq. yd)	50.89
Mass/unit area (g/sq. meter)	1725

Water Absorption (ASTM D 1117/ECTC)	
Pre-soak Weight (grams)	69
Post-Soak (grams)	152
Weight change (grams)	82
% Weight Change	119

Smolder Resistance (ECTC)	
Maximum Burn Distance (in)	.29

Sediment Control (ASTM D 5141)
Test material: Sand sieved thru No. 10 sieve
Filtering Efficiency: 59.1%
Flow Rate: 150 liter/minute

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