

SILTSACK®

(U.S. Patent #5,575,925)

Catch Basin Sediment Capture Device

Keeping catch basins free of silt!

Versatile

Available in 2 styles to meet your needs:

- High flow
- Regular flow

And It's Simple

- Remove drain grate
- Insert Siltsack
- Replace grate to hold Siltsack in position
- Siltsack traps silt
- Remove filled Siltsack easily
- Clean and reuse or simply discard and replace

Are you looking for a cost-effective, easy way to stop silt and sediment from entering catch basins on construction site? Siltsack is the simple and economical solution to prevent clogging of catch basins.

Siltsack is a sediment control device used to prevent silt and sediment from entering your drainage system by catching the silt and sediment while allowing water to pass through freely. Siltsack can be used as a primary or secondary sediment control device to prevent failure of your drainage system due to clogging. It must be maintained on a regular basis to function properly.

Siltsack is available in both high-flow or regular flow. A modified Siltsack is also available with a curb opening deflector attached to prevent sediment and debris from entering through curb openings. Constructed with properties shown on the Specifications page, Siltsack is a quality product designed to save time and money.



Routine inspection of a Siltsack's collected sediment level is important to prevent "ponding" around storm drains. We recommend the following maintenance schedule:

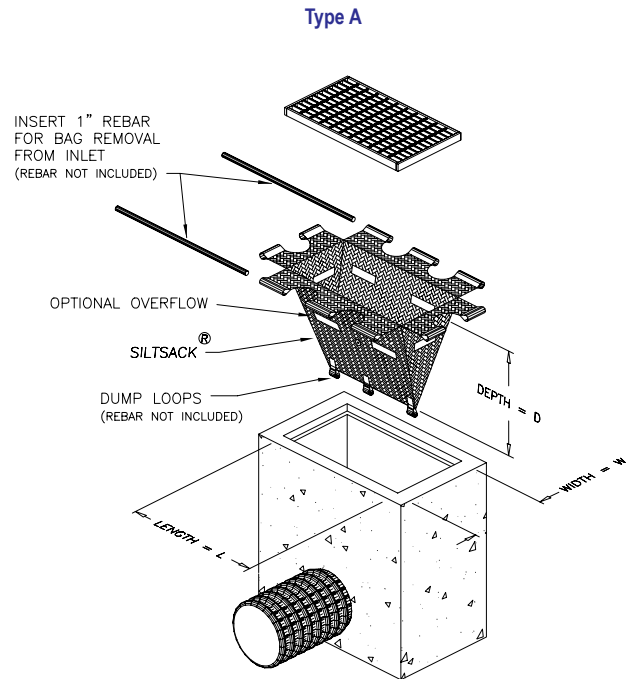
- Each Siltsack should be inspected after every major rain event.
- If there have been no major events, Siltsack should be inspected every 2-3 weeks.
- The yellow restraint cord should be visible at all times. If the cord is covered with sediment, the Siltsack should be emptied.



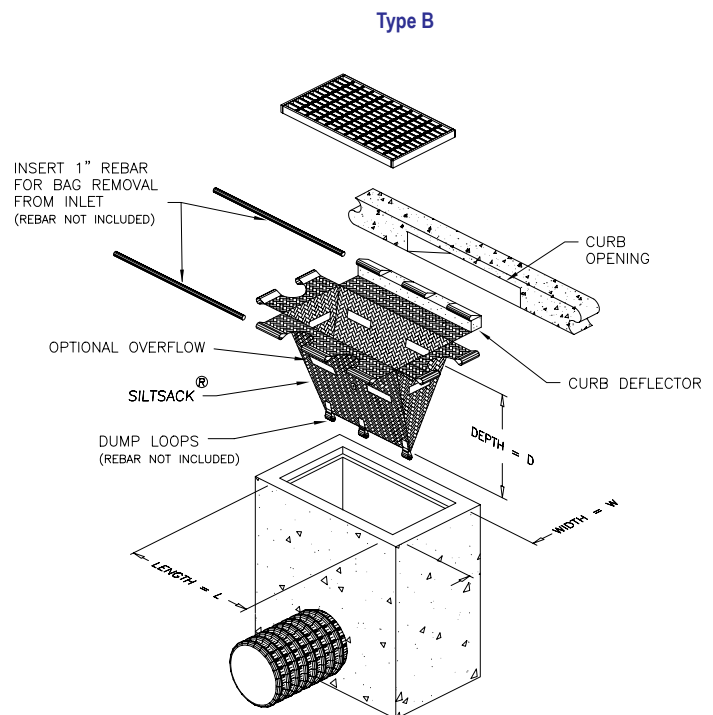
Typical Siltsack® Construction



installed Siltsack held in place by grate.



Sediment captured by Siltsack® can easily be removed from the site.





The Northwest's Largest Inventory of Geosynthetics

For more information or to place an order, please contact us:

OREGON: Portland 503-771-5115 | Medford 541-608-1648
WASHINGTON: Woodinville 425-415-6115 | Fife 253-922-6641
UTAH: Salt Lake City 801-521-5141

Siltsack® Specification

Control of Sediment Entering Catch Basins

(Storm Water Management)

1.0 Description

- 1.1** This work shall consist of furnishing, installing, maintaining, and removing Siltsack sediment control device as directed by the engineer or as shown on the contract drawings. Siltsack sediment control device is manufactured by:

ACF Environmental, Inc.
2831 Cardwell Road, Richmond, Virginia 23234
Phone: 800-448-3636 • Fax: 804-743-7779
www.acfenvironmental.com

2.0 Materials

2.1 Siltsack®

- 2.1.1** Siltsack shall be manufactured from a specially designed woven polypropylene geotextile manufactured by SI® Geosolutions and sewn by a double needle machine, using a high strength nylon thread.



SI Geosolutions:
www.sigeosolutions.com
(800)621-0444



- 2.1.2** Siltsack will be manufactured to fit the opening of the catch basin or drop inlet. Siltsack will have the following features: two dump straps attached at the bottom to facilitate the emptying of Siltsack; Siltsack shall have lifting loops as an integral part of the system to be used to lift Siltsack from the basin; Siltsack shall have a restraint cord approximately halfway up the sack to keep the sides away from the catch basin walls, this yellow cord is also a visual means of indicating when the sack should be emptied. Once the strap is covered with sediment, Siltsack should be emptied, cleaned and placed back into the basin.

- 2.1.3** Siltsack seams shall have a certified average wide width strength per ASTM D-4884 standards as follows:

Siltsack Style	Test Method	Test Method
Regular Flow	ASTM D-4884	165.0 lbs./in
Hi-Flow	ASTM D-4884	114.6 lbs./in

Siltsack Regular Flow

Property	Test Method	Units	Test Results
Grab Tensile	ASTM D-4632	lbs.	315x300
Grab Elongation	ASTM D-4632	%	15x15
Puncture	ASTM D-4833	lbs.	125
Mullen Burst	ASTM D-3786	P.S.I.	650
Trapezoid Tear	ASTM D-4533	lbs.	120x150
UV Resistance	ASTM D-4355	%	90
Apparent Opening	ASTM D-4751	US Sieve	40
Flow Rate	ASTM D-4491	Gal/Min/Ft ²	40
Permittivity	ASTM D-4491	sec ⁻¹	0.55

or SILTSACK® High Flow

Property	Specification	Units	Test Results
Material	Polypropylene		
Weight	5.6 oz/sq yd		
Color	Black		
Grab Tensile Strength	390lbs (530N)	lbs.	255x275
Grab Elongation (Max %)	30%	%	20x15
Traezoid Tear	120 lbs (250N) Min	lbs.	40x50
Puncture	140 lbs (250N) Min	lbs.	135
Mullen Burst	600 psi	P.S.I.	420
Coefficient of Permeability	0.04 in/sec		
Permittivity	0.3 gal/min/sq ft	sec ⁻¹	1.5
Water Flow Rate	152 gal/min/sq ft	gal/min/ft ²	200
AOS	0.212mm	US Sieve	40
UV Resistance Strength	90%		
Fabric Width	72"		

All properties are Minimum Average Roll Values (MARV)

3.0 Construction Sequence

3.1 General

- 3.1.1** To install Siltsack in the catch basin, remove the grate and place the sack in the opening. Hold out approximately six inches of the sack outside the frame. This is the area of the lifting straps. Replace the grate to hold the sack in place.

- 3.1.2** When the restraint cord is no longer visible, Siltsack is full and should be emptied.

- 3.1.3** To remove Siltsack, take two pieces of 1" diameter rebar and place through the lifting loops on each side of the sack to facilitate the lifting of Siltsack.

- 3.1.4** To empty Siltsack, place it where the contents will be collected. Place the rebar through the lift straps (connected to the bottom of the sack) and lift. This will turn Siltsack inside out and empty the contents. Clean out and rinse. Return Siltsack to its original shape and place back in the basin.

- 3.1.5** Siltsack is reusable. Once the construction cycle is complete, remove Siltsack from the basin and clean. Siltsack should be stored out of the sunlight until needed on another project.

4.0 Basis of Payment

- 4.1** Payment for all Siltsack used during the construction is to be included in the bid price for the overall erosion and sediment control plan unless unit price is requested. Maintenance of Siltsack also to be included in this price.

**Silt sack is covered by U.S. Patent No. 5,575,925.*



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Installation Made Easy



Install Silt sack® in catch basin, making sure emptying straps are laid flat outside the basin and held in place by drain grate.



Hold down removal flap pockets and emptying straps by covering with soil.



Properly installed, Silt sack® is out of sight and catches silt without the worry of silt fences or straw dams failing.

Emptying Even Easier



To prepare for emptying Silt sack®, remove soil covering removal flap pockets and rebar through pockets.



Remove catch basin cover grate.



Remove Silt sack® from catch basin by attaching to both bars and lifting with available equipment.



Move filled Silt sack® to dumping area and set on ground.



Insert a lifting bar through both emptying straps.



Lift Silt sack® by emptying straps, which are attached to the bottom of bag. When raised by straps, the bag will turn inside-out, empty and be ready for reuse or disposal.