

SILTSACK® Specifications

Control of Sediment Entering Catch Basins (Stormwater 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 Drive
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/Ft²	40
Permittivity	ASTM D-4491	sec ⁻¹	0.55

or SILTSACK High-Flow

Property	Test Method	Units	Test Results
Grab Tensile	ASTM D-4632	lbs.	255x275
Grab Elongation	ASTM D-4632	%	20x15
Puncture	ASTM D-4833	lbs.	135
Mullen Burst	ASTM D-3786	P.S.I.	420
Trapezoid Tear	ASTM D-4533	lbs.	40x50
UV Resistance	ASTM D-4355	%	90
Apparent Opening	ASTM D-4751	US Sieve	20
Flow Rate	ASTM D-4491	gal/min/ft²	200
Permittivity	ASTM D-4491	sec ⁻¹	1.5

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.

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