

Dirtbag® Specifications

Control of Sediment In Pumped Water

conditions and filtration requirements, additional geotextile options are available. Please call our engineering staff for solutions.

1.0 Description

1.1 This work shall consist of furnishing, placing and removing Dirtbag® pumped sediment control device as directed by the design engineer or as shown on the contract drawings. Dirtbag pumped-silt control system is distributed nationally 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 Dirtbag®

2.1.1 Dirtbag shall be manufactured using a polypropylene nonwoven geotextile from SI Geosolutions, then sewn into a bag with a double needle matching using a high strength thread.

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

2.1.2 Each standard Dirtbag has a fill spout large enough to accommodate a 4-6" discharge hose. Straps are attached to secure the hose and prevent pumped water from escaping without being filtered.

2.1.3 Dirtbag seams shall have an average wide width strength per ASTM D-4884 as follows.

Dirtbag Style	Test Method	Test Result
Dirtbag®53	ASTM D-4884	60 LB/IN
Dirtbag®55	ASTM D-4884	100 LB/IN

Test

Results

Properties	Test Method	Unit	53	55
Weight	ASTM D-3776	oz/yd	8	10
Grab Tensile	ASTM D-4632	lbs.	205	250
Puncture	ASTM D-4833	lbs.	110	150
Flow Rate	ASTM D-4491	gal/min/ft ²	110	85
Permittivity	ASTM D-4491	sec.-1	1.5	1.2
Mullen Burst	ASTM D-3786	lbs.in ²	350	460
UV Resistant	ASTM D-4355	%	70	70
AOS % Retained	ASTM D-4751	%	80	100

All properties are Minimum Average Roll Value (MARV) except the weight of the fabric which is given for information only. Depending on soil

3.0 Construction Sequence

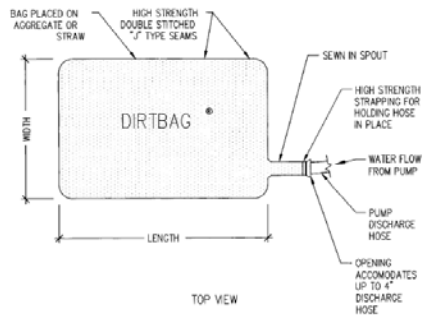
3.1.1 Install Dirtbag on a slope so incoming water flows downhill through Dirtbag without creating more erosion. Strap the neck of Dirtbag tightly to the discharge hose. To increase the efficiency of filtration, place the bag on an aggregate or haybale bed to maximize water flow through the surface area of the bag.

3.1.2 Dirtbag is full when it no longer can efficiently filter sediment or allow water to pass at a reasonable rate. Flow rates will vary depending on the size of Dirtbag, the type and amount of sediment discharged into Dirtbag, the type of ground, rock or other substance under the bag and the degree of the slope on which the bag lies. Under most circumstances Dirtbag will accommodate flow rates of 1500 gallons per minute. Use of excessive flow rates or overfilling Dirtbag with sediment will cause the bag to rupture or failure of the hose attachment straps.

3.1.3 Dispose Dirtbag as directed by the site engineer. If allowed, Dirtbag may be cut open and the contents seeded after removing visible fabric. Dirtbag is strong enough to be lifted with optional straps if it must be hauled away. Off-site disposal may be facilitated by placing Dirtbag in the back of a dump truck or flatbed prior to use and allowing the water to drain from the bag while in place, thereby eliminating the need to lift Dirtbag.

4.0 Basis of Payment

4.1 The payment for any Dirtbag used during construction is to be included in the bid of overall erosion and sediment control plan unless a unit price is requested.



Available in Texas from:

Construction EcoServices

1930 Aldine Western Road

Houston, Texas 77038

(O) 832.456.1000

(F) 832.456.1010

www.ecosvs.com