

DIRTBAG PUMPED SEDIMENT REMOVAL SYSTEM

SEDIMENT & PERIMETER CONTROL



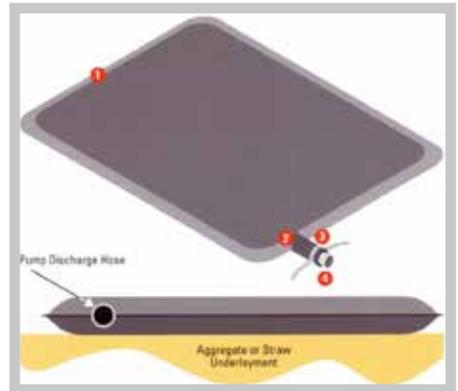
Retains the silt, sand and fines while allowing the filtered water to drain out into the drainage system.



The ACF Dirtbag® collects sand, silt and fines, while regulating that enters streams, surrounding property and storm sewers. ACF can make custom Dirtbags® to suit your needs. ACF Environmental manufactures the Dirtbag® using a variety of woven and nonwoven geotextile fabrics. We can produce any size, dimension, or fabric weight requested.

Each standard Dirtbag® has a fill spout large enough to accommodate a 4" discharge hose. Straps are attached to secure the hose and prevent pumped water from escaping without being filtered. 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. Dirtbag® is full when it no longer can efficiently filter sediment or pass water at a reasonable rate. Flow and removal rates will vary depending on the size of Dirtbag®, the type and amount of sediment discharged into Dirtbag®, the type of surface, rock or other substance under the bag. Under most circumstances Dirtbag® will accommodate flow rates of 500 gallons per minute. Use of excessive flow rates or overfilling Dirtbag® with sediment will cause ruptures of the bags or failure of the hose attachment straps.

The ACF Dirtbag@GS has a sewn in mesh pocket to hold the GeoScrub Bubbles (effervescent tablets). These effervescent tablets provide a significant reduction in turbidity, and in offsite transport of sediment. Tablet quantity varies by size.



Advantages:

- Higher flow rate
- Higher removal rate
- Smaller openings
- Reduction in turbidity
- Reduction in off-site transport of sediment



80Z. SPECIFICATIONS

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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 marketed by:

ACF Environmental, Inc.
2831 Cardwell Road
Richmond, VA 23234
Phone: 800.448.3636
Fax: 804.743.7779

2.0 Materials

2.1 Dirtbag®

2.1.1 The Dirtbag shall be manufactured using a polypropylene 8 oz. non-woven geotextile sewn into a bag with a double needle, using a high strength thread.

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

2.1.3 The non-woven geotextile shall meet or exceed the following properties:

Property	Test Method	Units	Test Results
Weight	ASTM D-3776	oz/yd	8
Grab Tensile	ASTM D-4632	lbs.	205
CBR Puncture	ASTM D-6241	lbs.	525
Flow Rate	ASTM D-4491	gal/min/ft ²	90
Permittivity	ASTM D-4491	sec. ⁻¹	1.4
UV Resistant	ASTM D-4355	%	70
AOS % Retained	ASTM D-4751	US Sieve	80

2.1.4 Dirtbag® Testing Results

Property	Test Method	Test Results
Overall Bag Removal Efficiency (including initial filling)	ASTM D-7880	97.55%

All properties are Minimum Average Roll Value (MARV) except the weight of the fabric, which is given for information purposes only. Depending on soil conditions and filtration requirements, additional geotextile options are available. Please call our engineering staff for solutions.

3.0 Construction Sequence

3.1.1 To install Dirtbag on a slope so that incoming water flows downhill through Dirtbag without creating more erosion, strap the neck of the Dirtbag tightly to the discharge hose. To increase the efficiency of filtration, place the bag on an aggregate or hay bale 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 the Dirtbag, the type and amount of sediment discharged into the 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, the Dirtbag will accommodate flow rates of 500 gallons per minute. Use of excessive flow rates or overfilling Dirtbag with sediment will cause the bag to rupture or will cause failure of the hose attachment straps.

Dirtbag must be monitored during use!

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 the 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 the Dirtbag.

ACF Environmental is not liable for failures or misuse of Dirtbag.

Dirtbag^{HD} and Dirtbag^{SD} Tube are also available from ACF.



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800.448.3636
acfenvironmental.com

