



US CONSTRUCTION FABRICS LLC

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Wholesale Distribution

CONSTRUCTION FABRICS, LINERS, & ENVIRONMENTAL PRODUCTS

PUMPED WATER FILTRATION BAG

USED TO CONFINE AND CONSOLIDATE SEDIMENTS DURING PUMPING OPERATIONS.



Flow Rates:

Maximum flow rate for a 15 ft x 15 ft filtration bag, single sided flow: 19,125 gal/min.

Maximum flow rate for a 15 ft x 15 ft filtration bag on a gravel bed (two sides): 38,250 gal/min.

* Flow rates are based on initial inflows. As sedimentation occurs within the filtration bag, flow rates will diminish.

Construction:

Filtration bag fitted with a 36" by 8" dia. inlet. All seams double stitched with heavy duty, marine quality thread.

Installation:

1 Select location

Location of the filtration bag should have a slight down grade, away from the work zone. A gravel bed can be prepared prior to deploying the filtration bag to permit the full surface area of the bag to be utilized (top and bottom). Otherwise the filtration bag can be laid out on the ground or on top of an impermeable membrane to reduce further erosion.

Lifting slings or ropes should be laid under the filtration bag if it is going to be removed from the site when full.

2 Pumping of Turbid Water

The discharge hose is inserted into the fill tube and the tube tied tightly around the hose to prevent back flow. It is advisable to insert the hose deeply into the bag initially, and slowly draw the hose backwards as the sediments collect within the filtration bag to get the maximum volume from the filtration bags.

Do not leave unattended. The top of the bag should maintain a flat profile. A doming condition indicates that the bag has reached maximum capacity or the fabric is clogged. If the filter fabric appears to be clogged (ie minimal flow through the fabric) a gentle beating with a shovel or board should break up any accumulated filter cake on the interior surface of the bag.

3 Disposal

The filtration bag is considered full when water flow is substantially diminished and it is impractical for the filtration bag to properly filter the sediments.

The bags may be buried in place or off site covered with top soil and seeded. Or cut open and the sediments removed for transportation to the appropriate facility.

Specifications:

Constructed from a 10 oz Non-Woven geotextile filtration fabric having the following properties:

Property	Test Method	Average Results
Weight	ASTM D-3776	10 oz/yd ²
Tensile Strength	ASTM D-4632	250 lbs
Elongation	ASTM D-4632	50%
Mullen Burst	ASTM D-3786	460 psi
Puncture Strength	ASTM D-4533	150 lbs
Trapezoidal Tear	ASTM-D4533	100 lbs
AOS - US Sieve	ASTM D-4751	100
Flow Rate	ASTM D-4491	85 gal/min/ft ²
Permittivity	ASTM D-4491	1.2 sec ⁻¹