



ULTRATECH
INTERNATIONAL, INC.

Ultra-Silt Dike Specification

Product: Ultra-Silt Dike

Manufacturer:

UltraTech International, Inc.
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1.0 Description of Work

1.1 This work shall consist of furnishing, installing, maintaining, and removing Ultra-Silt Dike erosion control device as directed by the engineer or as shown on the site drawings.

2.0 Ultra-Silt Dike Materials

2.1 Ultra-Silt Dike shall be manufactured from a specially designed woven polypropylene geotextile and sewn by a double needle machine, using a high strength nylon thread.

2.2 Ultra-Silt Dike shall be manufactured with aprons on both sides of the unit. Ultra-Silt Dike shall be manufactured with triangular-shaped urethane foam.

2.3 The Ultra-Silt Dike unit shall utilize a woven fabric with the following characteristics:

Specifications for Ultra-Silt Dike

Property	Test Method	Units	Test Results
Grab Tensile	ASTM D4632	lbs	124 / 101
Grab Elongation	ASTM D4632	%	15 / 15
Puncture	ASTM D6241	lbs	250
Trapezoid Tear	ASTM D4533	lbs	50
AOS	ASTM D4751	US Sieve	30
Permittivity	ASTM D4491	sec ⁻¹	0.15

3.0 Construction Sequence

- 3.1 To install Ultra-Silt Dike first prepare the site so that it is free of debris, rocks, stumps, etc. The surface shall be uniform and smooth.
- 3.2 Configure the Silt Dike so the sides extend up the bank slopes, with the overflow in the middle of the channel. The ends of each Silt Dike should be installed up both bank slopes so that the bottom of the dam is 6 inches higher than the top of the center.
- 3.3 Excavate a 1-3" wide and 3-6" deep trench on the upstream side of the Ultra-Silt Dike. The upstream apron will be tucked into the trench followed by anchors, infill and compaction.
- 3.4 Typical soil type use 6" x 1" Crown 11 Gauge staples. Install two staples every 12" along both sides of the Silt Dike, being sure to secure the top and bottom of the apron.
- 3.5 Inspect and maintain after each rain event. It is recommended the sediment be removed at 50% capacity.

4.0 Basis of Payment

- 4.1 Payment for all Ultra-Silt Dike units used during construction is to be included in the bid price for the overall erosion and sediment control plan unless unit price is requested.

Note: This information is provided as reference only and is not intended as a warranty or guarantee. UltraTech International, Inc. assumes no liability in connection with the use of this information (8/1/24).