

**SECTION 02374: EROSION CONTROL**

## 1 PART 1 GENERAL

## 1.1 RELATED SECTIONS

A. Section 02200 – Earthwork.

## 1.2 REFERENCES

A. ASTM International:

1. ASTM D3786 - [Standard Test Method for Hydraulic Bursting Strength of Textile Fabrics.](#)
2. ASTM D4355 - [Standard Test Method for Trapezoid Tearing Strength of Geotextiles.](#)
3. ASTM D4491 - [Standard Test Methods for Water Permeability of Geotextiles by Permittivity.](#)
4. ASTM D4533 - [Standard Test Method for Trapezoid Tearing Strength of Geotextiles.](#)
5. ASTM D4632 - Standard Test Method for Grab Breaking Load and Elongation of Geotextiles.
6. ASTM D4751 - [Standard Test Method for Determining Apparent Opening Size of a Geotextile.](#)
7. ASTM D4833 - [Standard Test Method for Hydraulic Bursting Strength of Textile Fabrics.](#)
8. ASTM D6475 - [Test Method for Measuring Mass Per Unit Area of Erosion Control Blankets.](#)

## 1.3 SUBMITTALS

- A. Section 01300 - Submittals: Requirements for submittals.
- B. Erosion and Sedimentation Control Plan and maintain one copy of document on site.
- C. A sample of the silt fence geotextile material or other material used for erosion control, including manufacturer specifications, shall be provided to Ecology's representative a minimum of 2 days prior to installation. Material must be approved before installation can proceed.

## 1.4 MEASUREMENT AND PAYMENT

- A. Work under Section 02200 - Erosion Control will be paid as a lump sum item under bid item number one. No separate payment will be made.

## 2 PART 2 PRODUCTS

### 2.1 GEOTEXTILE MATERIALS

- A. Provide woven or non-woven geotextile silt fence material that meets or exceeds the following performance or physical specifications:

<b>Physical Properties for Silt Fence Geotextile Material</b>		
<b>PROPERTY</b>	<b>TEST VALUE</b>	<b>TEST METHOD</b>
Grab Tensile Strength (lb)	124 lbs	ASTM D4632
Grab Tensile Elongation (%)	20%	ASTM D4632
Mullen Burst (psi)	300	ASTM D3786
Puncture (lb)	65	ASTM D4833
Trapezoidal Tear (lb)	65	ASTM D4533
UV Resistance (% @ 500 hours)	80%	ASTM D4355
Apparent Opening Size (US Sieve)	30	ASTM D4751
Permittivity(sec <sup>-1</sup> )	0.1	ASTM D4491
Flow Rate (gal/min/ft <sup>2</sup> )	8	ASTM D4491

### 2.2 SITE STABILIZATION

- A. Incorporate erosion control into the project at the earliest practicable time.
- B. Construct, stabilize and activate erosion controls before site disturbance within tributary areas of those controls.
- C. Stockpile and waste pile heights shall not exceed 8 feet. Slope stockpile sides at 2:1 or flatter.
- D. Stabilize any disturbed area of affected erosion control devices on which activity has ceased and which will remain exposed for more than 20 days.
- E. Stabilize stockpiles immediately after placement of materials. Wet and cover as necessary to prevent water and wind erosion.

### 2.3 FIELD QUALITY CONTROL

- A. Inspect erosion control devices on a weekly basis and after each runoff event.
- B. When inspection indicates erosion control devices are not effective, make necessary repairs to ensure controls are in good working order.

2.4 PROTECTION

- A. Section 02200 - Earthwork: Requirements for protecting finished Work.

END OF SECTION