

Standard Guidelines for Product Review

Sediment Fence;
Section 00280.100

July, 2012

00280.100 – Sediment Fence

ODOT maintains a list of products suitable for use as a sediment fence. We use two types of Sediment Fence. Supported Sediment Fence includes fabric with mesh and metal posts. Unsupported Sediment Fence includes fabric and posts. Products need to meet the following requirements and comply with requirements shown in ODOT Standard Drawing RD 1040 at:

http://egov.oregon.gov/ODOT/HWY/ENGSERVICES/roadway_drawings.shtml#Rdwy_1000 Erosion Control

Specifications - Geotextile:

Geotextiles shall be composed of long chain, synthetic polymeric filaments or yarns formed into a stable network that retains its relative structure during handling, placement, and design services life. At least 95%, by weight, of the long chain polymers shall be a polyolefin or polyester.

Geotextile Property	Test Method	Units	Supported	Unsupported	
				Elongation ≥50%	Elongation ≤50%
Grab Tensile strength (minimum)	ASTM D4632 Machine Direction	lbs	90	120	120
Grab Tensile strength (minimum)	ASTM D4632 Cross Machine Direction	lbs	90	100	100
Apparent Opening Size (AOS) (maximum) US Standard Sieve	ASTM D4751 (CW-02215 Corps of Engr.)	In	No. 30	No. 30	No. 30
Permittivity (minimum)	ASTM D4491	s ⁻¹	0.05	0.05	0.05
Ultraviolet stability (Retained Strength) (minimum)	ASTM D4355 at 500 hours	%	70	70	70

Note: if typical or average end roll values are used instead of minimum average roll values, then increase by 25% the specified minimum values in the above table for grab tensile strength.

- Field sewn seams are not acceptable.

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Specifications - Posts:

- Supported Sediment Fences in our design use commercial grade metal posts with a mass of at least 1.35 pounds per foot.
- Unsupported Sediment Fences in our design use 1 1/2" x 1 1/2" x48" wooden posts (minimum).

Specifications – Wire Mesh:

Galvanized wire mesh with 2x2 – W0.5xW0.5 or 4x2 – W0.5xW0.5 openings or horizontal and vertical self supporting, prior to fastening to posts, mesh with a minimum tensile strength of 70 ksi meeting the requirements of ASTM A82.

We require positive determination that Material delivered to the Project is the same Material covered by this review. There should be an identification plate or mark, decal, sticker, label, or tag attached to the container or material.

To apply for inclusion on the QPL, submit two copies of the following:

- [Preliminary Information for Product Evaluation Form](#).
- Detailed spec data sheet, including MSDS if appropriate.
- Furnish Certification (or independent testing) showing conformance to the above specifications.
- Detailed Installation Instructions.
- List of limitations and precautions.
- Pictures, brochures, videos, etc.
- Supply two small samples of the product for our evaluation. (8" by 8" each)

Submit all documentation to:

Oregon Department of Transportation
Product Evaluation Coordinator
800 Airport Rd SE
Salem OR 97301-4798

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>