

# **NWSF-6/6 Nonwoven Silt Fence Specifications**

**DESCRIPTION:** Nonwoven Silt Fence shall consist of five parts:

1. Silt Fence geotextile shall be a 36" needle punched, nonwoven filter fabric machine produced from polypropylene fibers with nylon lockstitch at top of fabric to prevent sag. Geotextile should be designed specifically to retain sediment and remain highly permeable to water. Desired characteristics include small pore size, high U.V. resistance, high permittivity, and a high percent open area.
2. Nominal 2" x 2" x 36" hardwood stake with a chisel or pencil point
3. Nominal 2" x 24" hardwood lath
4. Staples 1 1/2" GS16
5. Lockstitch BN207 nylon thread with minimum single end strength of 34.2 lb.

## **GEOTEXTILE PROPERTIES:**

<b><u>Mechanical/ Physical Properties</u></b>	<b><u>Description/Minimum Average Roll Values</u></b>	<b><u>Test Method</u></b>
Structure	Nonwoven, needle punched	
Polymer	Polypropylene	
U.V. Resistance (@ 500hrs)	>70% Strength Retained	ASTM D4355
Permittivity	1.5 Sec <sup>-1</sup>	ASTM D4491
Flow Rate	110 gpm/ft <sup>2</sup>	ASTM D4491
Grab Tensile Strength	160 lbs	ASTM D4632
Grab Tensile Elongation	50%	ASTM D4632
Trapezoid Tear Strength	60 lbs	ASTM D4533
AOS (U.S. Sieve)	#70 Sieve	ASTM D4751
CBR Puncture Strength	410 lbs	ASTM D6241
Color	<b><u>Black</u></b>	

## **ASSEMBLY:**

Silt fence geotextile shall be attached to hardwood stakes with hardwood laths and secured with a minimum of five 1 1/2" staples. Hardwood stakes shall be 6' on center. The bottom 12" of fabric shall be left unsecured to allow for entrenchment.

## **PREPARATION/INSTALLATION:**

Create a 6" deep trench along proposed fence line. Drive the stakes into the trench a minimum of 8". Be sure to stretch fabric taut when driving stakes. Stakes must be installed on the downhill or downstream side of fence. Drape loose end of geotextile into trench, then backfill and compact soil on both sides.

## **PACKAGING:**

Color:	Black (NWSF-6/6)
Fabric Width	36"
Post Length	36"
LF/Roll	60'
LF/Pallet	900'
Weight/Roll	30 lbs