



**STANDARD SPECIFICATION
FOR
SEDIMENT RETENTION FIBER ROLLS (SRFRS)**

Version: December 4, 2012

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a Sediment Retention Fiber Roll (SRFR). A SRFR is a manufactured 3-dimensional device of a specified filler material encapsulated within a flexible containment material utilized in sediment and flow control applications. SRFRs are also known as wattles, logs, socks, tubes or fiber rolls and are offered as a prefabricated unit.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions.
- B. Certifications: Submit a letter from manufacturer certifying that the SRFR meets or exceeds all requirements found in this specification. Submittals shall include manufacturer's installation instructions.

1.02 PACKAGING, DELIVERY, STORAGE, AND HANDLING

- A. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect product from damage due to climatic conditions and construction operations.

PART 2 PRODUCTS

2.01 PRODUCT REQUIREMENTS

A. The SRFr to be used shall meet the performance standards of Type _____ as specified in *Table 1*.

Table 1: Product Chart for Standard SRFrs¹

Category 1: Straw SRFrs		
Category Type²	Product Description	Minimum Pounds per lineal foot
S-6	6 inches in diameter	0.50
S-9	9 inches in diameter	1.40
S-12	12 inches in diameter	2.50
S-20	20 inches in diameter	3.50

Category 2: Wood Fiber SRFrs		
Category Type²	Product Description	Minimum Pounds per lineal foot
W-6	6 inches in diameter	0.48
W-9	9 inches in diameter	1.00
W-12	12 inches in diameter	2.00
W-20	20 inches in diameter	3.00

Category 3: Coir, Compost and Other SRFrs		
Category Type²	Product Description	Minimum Pounds per lineal foot
C-6	6 inches in diameter	1.20
C-8	8 inches in diameter	1.80
C-12	12 inches in diameter	3.90
C-20	20 inches in diameter	10.9

¹This table is for general guidelines only. Refer to manufacturer for site specific guidelines

PART 3 EXECUTION

3.01 APPROPRIATE APPLICATIONS

- A. Slope length and gradient are two factors that directly affect the erodibility of a slope and introduce sediment into storm-water runoff. As many road right-of-ways are space limited, slopes along roadsides tend to be steep, leading to accelerated erosion. SRFs provide a reliable and economical means to reduce the effective length of slopes, thus reducing erosion and sediment discharge to natural waters.

- B. SRFs are typically placed along the toe, top, face and at grade breaks of exposed and erodible slopes to shorten the slope length and spread runoff as sheet flow. SRFs are also frequently used for inlet protection, around temporary stockpiles and even around the perimeter of a job site. SRFs are also used in channel applications as checks to reduce flow velocity and filter sediment laden flow.

- C. SRFs may be used in conjunction with Rolled Erosion Control Products (RECPs) and Hydraulic Erosion Control Products (HECPs). If used with HECPs, SRFs are installed prior to application of the HECP. Once SRFs are installed, apply the HECP per the manufacturer's application rates and instructions. When used with RECPs, SRFs are typically placed and secured after installation of the RECP. Proper installation is necessary for successful SRF implementation. Excessive runoff and erosion may occur if SRFs are not adequately spaced, trenched in and/or anchored.

3.02 INSTALLATION

- A. Comply with manufacturer's submitted installation instructions and other recommendations. Manufacturer's recommendations shall meet or exceed ECTC's Sedimentation Retention Fiber Roll (SRFR) General Usage and Installation Guidelines for installation. www.ectc.org.

3.03 PROTECTION

Areas protected with SRF shall be free from foot and vehicle traffic, grazing and other disturbances. Any damaged area shall be repaired accordingly to the installation procedures as specified above.

4.01 PAYMENT

SRFR will be paid for by the linear footage installed. The price shall include; full compensation furnishing all labor, materials, tools, equipment, and incidentals, for doing all SRF work, complete in place, as shown on the plans, and as specified in these Standard Specifications and as directed by the Engineer.

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