

MATERIAL PROPERTY DATA SHEET



Straw Wattle

Temporary • Degradable • Straw Fiber •
Sediment Control Device

DESCRIPTION

Western Green manufactures Straw Wattles which are sediment control logs designed for use in sediment control applications. The Straw Wattles consist of 100% clean, weed free straw fiber matrix confined by a degradable synthetic mesh to form a log of specific length and diameter. Straw Wattles are designed to reduce hydraulic energy and filter sediment laden flow in channels and on slopes. The wattles are flexible to conform to the soil surface and are secured by staking.

Each Straw Wattle is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent dimensions.

Material Content

Fiber Fill	100% clean, weed free straw fiber
Outer Mesh	Hecy Duty Synthetic
Configuration	Cylindrical with Closed Ends
End Closure	Hog ring or Tied

Specified Expected Values

Diameter	10 ft (3.0 m)	20 ft (6.0 m)	25 ft (7.6 m)
9 in (0.23 m)	14 lbs (6.4 kg)	28 lbs (12.7 kg)	35 lbs (15.9 kg)
	1.4 lbs/ft (2.1 kg/m)	1.4 lbs/ft (2.1 kg/m)	1.4 lbs/ft (2.1 kg/m)
	3.2 lbs/ft ³ (51.5 kg/m ³)	3.2 lbs/ft ³ (51.5 kg/m ³)	3.2 lbs/ft ³ (51.5 kg/m ³)
12 in (0.31 m)	25 lbs (11.3 kg)	50 lbs (22.7 kg)	
	2.5 lbs/ft (3.7 kg/m)	2.5 lbs/ft (3.7 kg/m)	
	3.3 lbs/ft ³ (53 kg/m ³)	3.3 lbs/ft ³ (53 kg/m ³)	
20 in (0.51 m)	50 lbs (22.7 kg)	100 lbs (45.4 kg)	
	5.0 lbs/ft (7.4 kg/m)	5.0 lbs/ft (7.4 kg/m)	
	2.4 lbs/ft ³ (39 kg/m ³)	2.4 lbs/ft ³ (39 kg/m ³)	



Disclaimer: The information contained herein may represent product index data, performance ratings, bench scale testing or other material utility quantifications. Each representation may have unique utility and limitations. Every effort has been made to ensure accuracy, however, no warranty is claimed and no liability shall be assumed by Western Green or its affiliates regarding the completeness, accuracy or fitness of these values for any particular application or interpretation. While testing methods are provided for reference, values shown may be derived from interpolation or adjustment to be representative of intended use. For further information, please feel free to contact Western Green.

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Rev. 5.2023

Scan for additional and updated product information



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www.westerngreen.com

01/01/2023

RE: Certification of Conformance and Delivery for ST-9X25

To Whom it May Concern:

This document has been drafted to provide certification as to the origin, properties and delivery of ST-9X25, a straw wattle. ST-9X25 is produced by Western Green (WG). Each wattle is subjected to regular inspection and testing in accordance with the WG Quality Assurance Program. Properties and specifications of the material are provided on document number WG_MPDS_Straw Wattles, attached as reference. Installation documentation may be found at www.westerngreen.com.

Since most WG products are sold to distributors and stocked, WG is typically unable to certify material type or quantity delivered to the project/project site. However, space is provided below for distributor/contractor certification of materials delivered to the project/project site.

To the best of our knowledge, the information included is accurate.

A handwritten signature in black ink, appearing to read "Jill Pack", written over a horizontal line.

Jill Pack
Product Manager
Western Green

Standard Material Delivery Certification

Material Provided by (Distributor/Contractor):	_____
Material Provided to (Contractor/Project):	_____
Project Name / Project Number:	_____
Rolls / Square Yards Provided:	_____
Specification #:	_____
Signature: _____	Date: _____
Title: _____	



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RE: Certification of Conformance and Delivery for ST-12X10

To Whom it May Concern:

This document has been drafted to provide certification as to the origin, properties and delivery of ST-12X10, a straw wattle. ST-12X10 is produced by Western Green (WG). Each wattle is subjected to regular inspection and testing in accordance with the WG Quality Assurance Program. Properties and specifications of the material are provided on document number WG_MPDS_Straw Wattles, attached as reference. Installation documentation may be found at www.westerngreen.com.

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Project Name / Project Number:	_____
Rolls / Square Yards Provided:	_____
Specification #:	_____
Signature: _____	Date: _____
Title: _____	



Installation Instructions Logs and Wattles

Step 1 - Site Preparation

Prepare site to design profile and grade. Remove debris, rocks, clods, etc.. Ground surface should be smooth prior to installation to ensure log remains in contact with slope.

Step 2 - Staple Selection

At a minimum, 1 in. by 1 in. by 24 in., stakes are to be used to secure the log to the ground surface. Installation in rocky, sandy or other loose soil may require longer stakes.

Slope Installation

Place RECP along slope to provide upstream apron for log. Secure RECP according to standard slope installation instructions including upstream anchor trench. Secure log to blanket, ensuring log remains in intimate contact with the RECP over the length of the installation. A minimum of one foot upstream apron and two foot downstream apron are required for installation. Subsequent, downslope rows of logs should be spaced appropriately for site conditions to minimize acceleration of flow. Further, log seams are to be offset to ensure continuous filtration. Figure A presents a schematic of a slope installation in profile view.

Channel Installation

Place RECP along channel to provide upstream and downstream apron for log identically to slope installation. Secure log to blanket, ensuring log remains in intimate contact with the RECP over the length of the installation. A minimum of one foot upstream apron and two foot downstream apron are required for installation. Subsequent, downslope rows of logs should be spaced appropriately for site conditions to minimize acceleration of flow. Further, log seams are to be offset to ensure continuous filtration. Figure A / Figure C presents a schematic of a channel installation.

Drain Filter Installation

Surround drain inlet to be protected with log, ensuring seams are overlapping to minimize flow circumventing log. Secure logs to ground surface ensuring the log remains in intimate contact with the ground surface over the entire installation. Provide RECP apron secured to the ground surface between drain and log.

Slope/Channel Installation

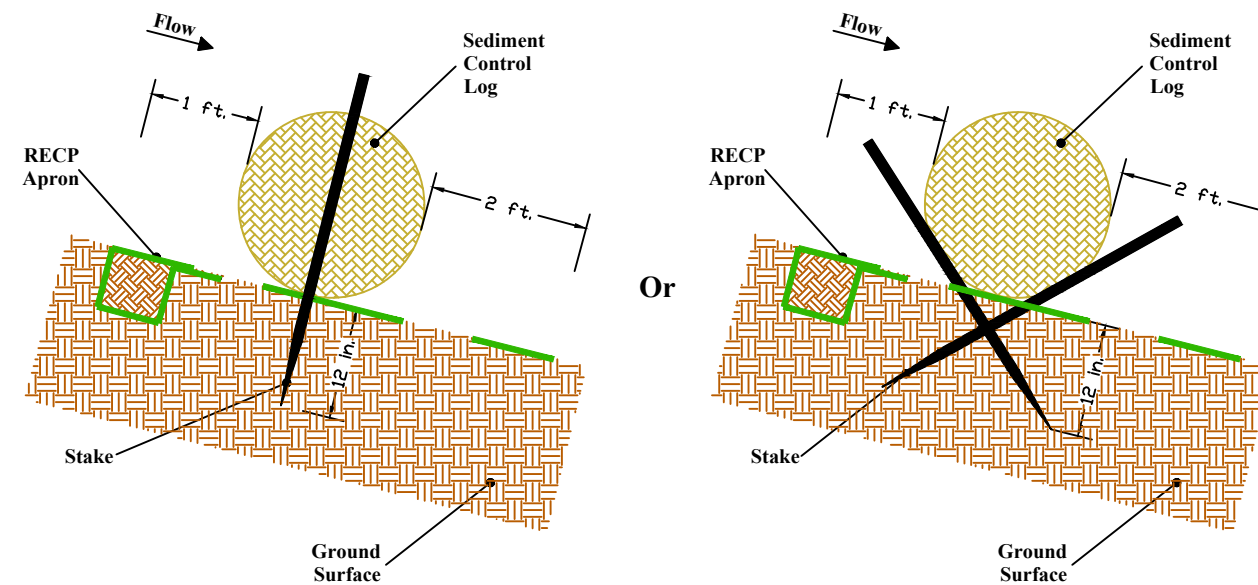


Figure A - Profile View

Flat Ground (Perimeter Guard) Installation

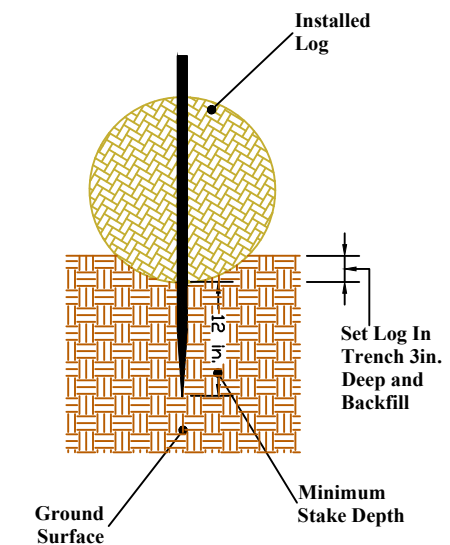
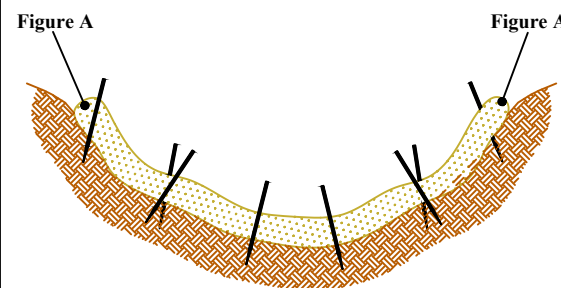


Figure B - Profile View

Channel Installation



Minimum stake
in ground, 12 in.

Do not allow flow to overtop installation.

Figure C - Cross-Section View

Drain Filter

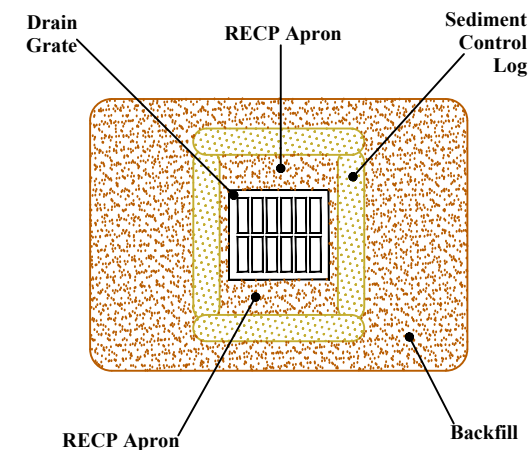


Figure D - Cross-Section View

Curbside Installation

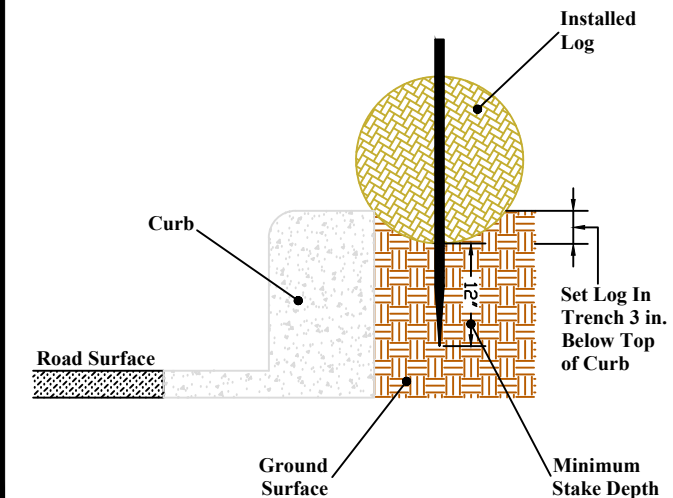


Figure E - Cross-Section View