



Standard Material Certification for Conformance and Delivery - Aspen Excelsior Logs™

"Blanketing Nature With Nature"

To Whom it May Concern:

This document has been drafted to certify Western Excelsior manufactures the Sediment Retention Fiber Roll (SRFR) marketed as Aspen Excelsior Logs. Each unit is subjected to Western Excelsior's Quality Assurance Program and is manufactured to the specifications listed in document number WE_EXCEL_AEL_SPEC. Installation instructions are provided in document numbers WE_EXCEL_LOG_II. A copy of document number WE_EXCEL_AEL_SPEC is attached; all other documentation may be obtained by calling Western Excelsior Technical Services at 1-866-540-9810, at www.westernexcelsior.com or by email at wexcotech@westernexcelsior.com.

Since most Western Excelsior products are sold to distributors and stocked, Western Excelsior 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.

Regards,

A handwritten signature in black ink, appearing to read "Chad M. Lipscomb".

Chad M. Lipscomb, PE (CO), CPESC
Director, Technical Services
Western Excelsior Corporation
chad@westernexcelsior.com
866-540-9810

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: _____



"Blanketing Nature With Nature"

Chad Lipscomb, PE (CO), CPESC
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Effective: 6/27/2017

RE: Certificate of Conformance: Aspen Excelsior Logs™

To Whom it May Concern:

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Chad M. Lipscomb, PE (CO), CPESC
Director, Technical Services
Western Excelsior Corporation



Material Properties and Dimensions

Aspen Excelsior Logs™



Specifications

Western Excelsior manufactures Aspen Excelsior Logs in addition to a full line of Rolled Erosion Control Products (RECPs). Aspen Excelsior Logs are a Sediment Retention Fiber Roll (SRFR) consisting of a machine produced High Altitude Rocky Mountain Aspen Excelsior Matrix confined by a synthetic net to form a log of specific length and diameter. Aspen Excelsior Logs are designed to reduce hydraulic energy and filter sediment laden flow in channels and on slopes. The logs are flexible to conform to the soil surface and are secured by staking. Aspen Excelsior Sediment Logs can be ordered in custom lengths to meet specific job conditions.

Each Aspen Excelsior Log is made in the USA and manufactured under Western Excelsior's Quality Assurance Program to ensure a continuous distribution of fibers and consistent dimensions. Log dimensions are provided in Table 1 and product characteristics are provided in Table 2. Installation instructions and performance data are available from Western Excelsior's Technical Support Division.

Diameter	10 ft (3.0 m) Length	20 ft (6.0 m) Length	25 ft (7.6 m) Length
9 in (0.23 m)	25.0 lbs (11.3 kg) 2.5 lbs/ft (3.7 kg/m) 5.8 lbs/ft ³ (93.3 kg/m ³)	50.0 lbs (22.7 kg) 2.5 lbs/ft (3.7 kg/m) 5.7 lbs/ft ³ (92.2 kg/m ³)	62.5 lbs (28.4 kg) 2.5 lbs/ft (3.7 kg/m) 5.7 lbs/ft ³ (91.9 kg/m ³)
12 in (0.31 m)	30.0 lbs (13.6 kg) 3.0 lbs/ft (4.5 kg/m) 4.0 lbs/ft ³ (63.5 kg/m ³)	60.0 lbs (27.2 kg) 3.0 lbs/ft (4.5 kg/m) 3.9 lbs/ft ³ (62.5 kg/m ³)	75.0 lbs (34.0 kg) 3.0 lbs/ft (4.5 kg/m) 3.9 lbs/ft ³ (62.3 kg/m ³)
18 in (0.46 m)	50.0 lbs (22.7 kg) 5.0 lbs/ft (7.4 kg/m) 3.0 lbs/ft ³ (47.9 kg/m ³)	100.0 lbs (45.4 kg) 5.0 lbs/ft (7.4 kg/m) 2.9 lbs/ft ³ (46.7 kg/m ³)	125.0 lbs (56.7 kg) 5.0 lbs/ft (7.4 kg/m) 2.9 lbs/ft ³ (46.4 kg/m ³)
20 in (0.51 m)	50 lbs (22.7 kg) 5.0 lbs/ft (7.4 kg/m) 2.4 lbs/ft ³ (39.0 kg/m ³)	100.0 lbs (45.4 kg) 5.0 lbs/ft (7.4 kg/m) 2.4 lbs/ft ³ (37.9 kg/m ³)	125.0 lbs (56.7 kg) 5.0 lbs/ft (7.4 kg/m) 2.3 lbs/ft ³ (37.7 kg/m ³)

Fiber Composition	High Altitude Machine Curled Aspen Excelsior
Fiber Dimensions	80% Greater than 6 in.
Netting	0.50" x 0.50" Heavy Duty Synthetic
Configuration	Cylindrical with Closed Ends
End Closure	Hog Ring or Tied

*All values shown measured at the time of manufacture.

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 Excelsior Corporation (WEC) 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 WEC.



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.

Please contact Western Excelsior Technical Support Division at 800-967-4009 with specific questions or for further information.

Slope/Channel Installation

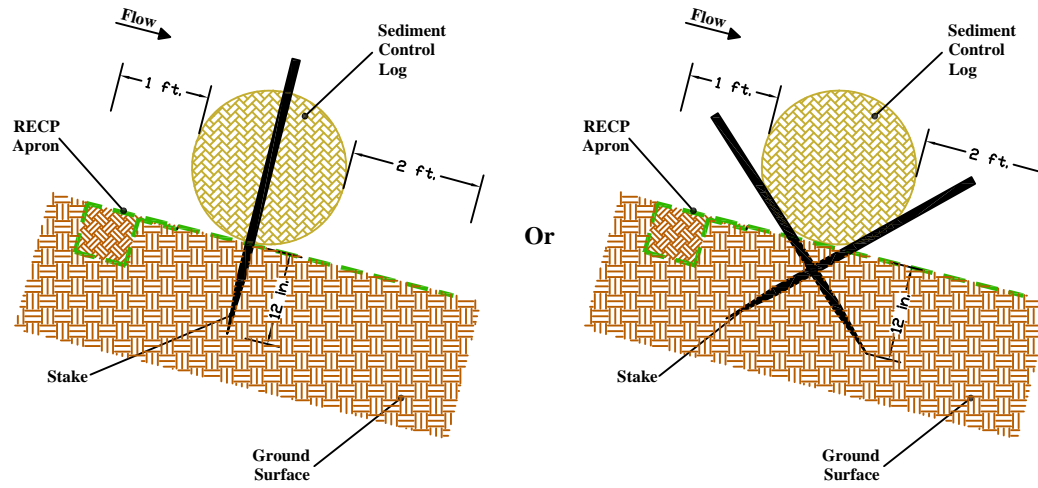


Figure A - Profile View

Flat Ground (Perimeter Guard) Installation

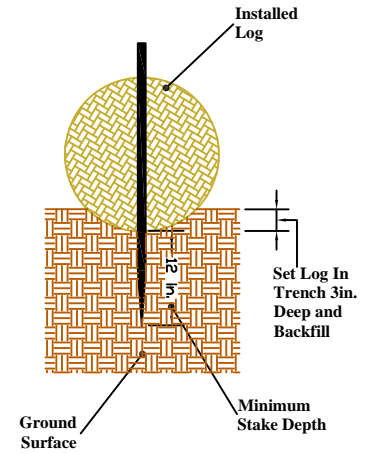
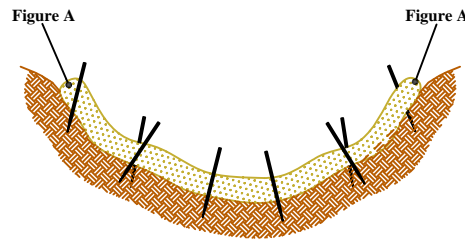


Figure B - Profile View

Channel Installation



Minimum stake
in ground, 12 in.

Do not allow flow to overtop installation.

Figure C - Cross-Section View

Drain Filter

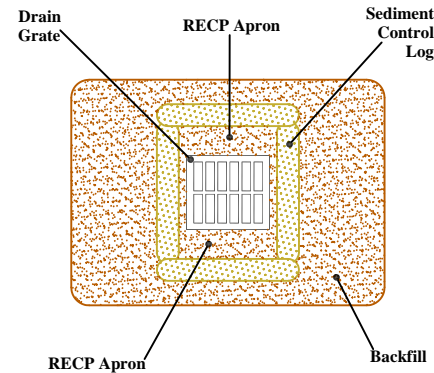


Figure D - Cross-Section View

Curbside Installation

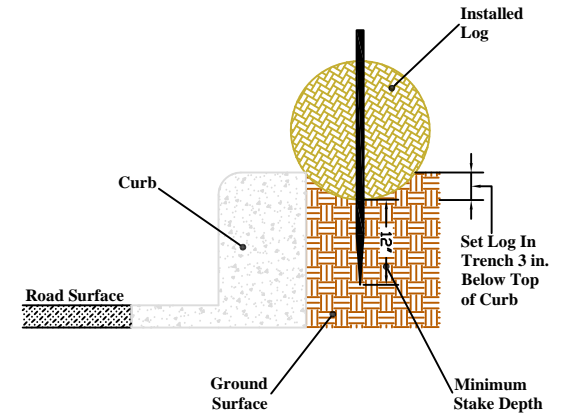


Figure E - Cross-Section View