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“Blanketing Nature With Nature”

Effective: 11/01/07

RE: Certificate of Conformance: *Aspen Excelsior Logs*[™]

To Whom it May Concern:

This letter is to certify that Western Excelsior manufactures the product marketed as Western Excelsior Aspen Excelsior Sediment Control Log. Each log is subjected to Western Excelsior’s Quality Assurance Program and is manufactured to the specifications listed in document #WE_EXCEL_AEL_SPEC_030806. A copy of the specification document is attached. Installation instructions are provided in document # WE_EXCEL_LOG_II_1205. If you have any questions regarding the installation, use or properties of the sediment control log, please feel free to contact me.

Regards,

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

Chad M. Lipscomb, PE, CPESC
Director, Technical Services
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EXCEL Product Data and Specifications



Description

Western Excelsior manufactures Aspen Excelsior Logs in addition to a full line of Rolled Erosion Control Products (RECPs). Aspen Excelsior Sediment Control Logs consist 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.

Specifications

Each Aspen Excelsior Log is 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.

Table 1

Log Property	Value
Length	10 ft.
Diameter	9, 12, 18 or 20 in.
Weight*	25 lbs (9in.) 30 lbs (12 in.) 43 lbs (18 in.) 50 lbs (20 in.)
Density*	5.8 lbs/ft ³ (9 in.) 4.0 lbs/ft ³ (12 in.) 3.5 lbs/ft ³ (18 in.) 2.4 lbs/ft ³ (20 in.)
*Based on Measurements at time of Manufacture	

Table 2

Characteristic	Dimension
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

Document # WE_EXCEL_AEL_SPEC_030806. This document has been developed to provide the characteristic properties of the product described. This document supersedes all other documentation regarding Aspen Excelsior Logs as of 03/08/06. For questions, to request performance data or installation recommendations, contact Western Excelsior at 800-967-4009 or wexcotech@msn.com.



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 – Stake Selection

At a minimum, 1” long by 1” by 24” 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 and downstream 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 feet of 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. Subsequent, downstream 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 B presents a schematic of channel installation.

Drain Filter Installation

Surround drain inlet to be protected with log, ensuring seams are overlapped 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.

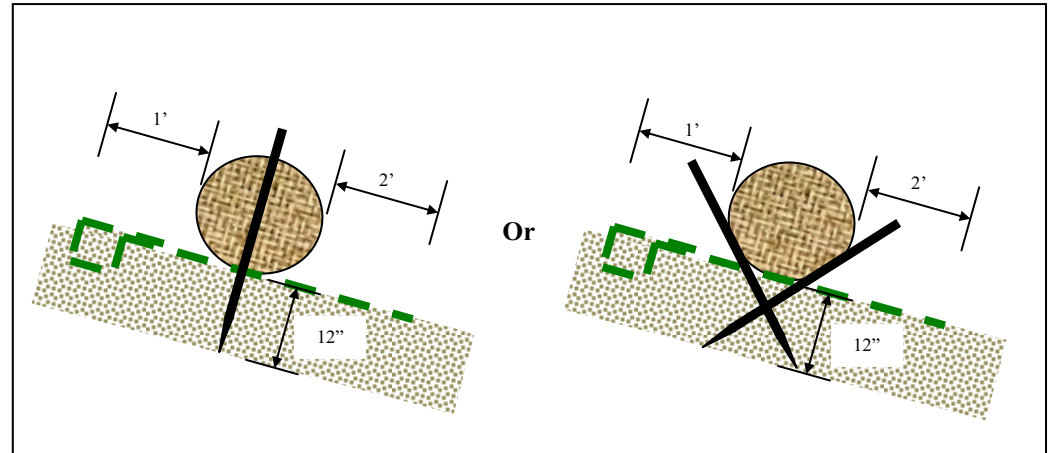
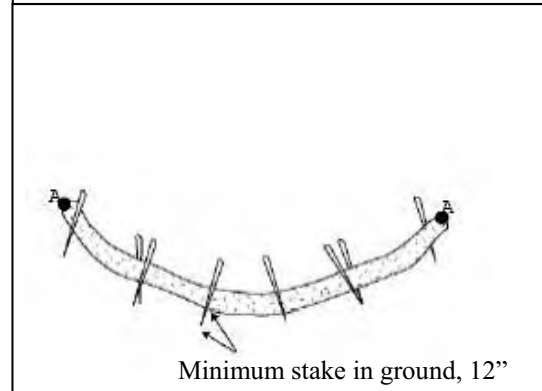


Figure A – Profile View Slope Installation



Do not allow flow to overtop installation.

Figure B – Cross Section View Channel Installation

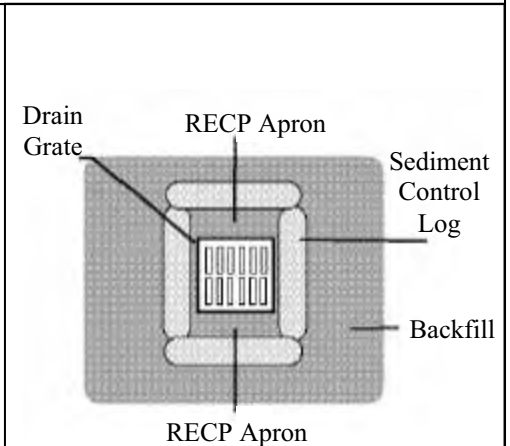


Figure C – Plan View Drain Filter