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“Blanketing Nature With Nature”

Effective: 4/1/09

RE: Certificate of Conformance: *Excel Straw Logs*[™]

To Whom it May Concern:

This letter is to certify that Western Excelsior manufactures the product marketed as Western Excelsior’s EXCEL Straw Log. Each log is subjected to Western Excelsior’s Quality Assurance Program and is manufactured to the specifications listed in document #WE_EXCEL_ESL_SPEC. A copy of the specification document is attached. Installation instructions are provided in document # WE_EXCEL_LOG_II. 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
Western Excelsior Corporation



Material Properties and Dimensions



Description

Western Excelsior manufactures Excel Straw Logs in addition to a full line of Rolled Erosion Control Products (RECPs). Excel Straw logs consist of 100% clean, certified weed free straw fiber matrix confined by a synthetic net to form a log of specific length and diameter. Excel Straw 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. Excel Straw Logs can be ordered in custom lengths to meet specific job conditions.

Specifications

Each Excel Straw 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.

Log Property	Value	Units
Length	10	ft
Diameter	9, 12 or 20	in
Weight*	14 lbs (9 in) 25 lbs (12 in) 35 lbs (20 in)	lbs
Density*	3.2 lbs/ft ³ (9 in) 3.3 lbs/ft ³ (12 in) 1.7 lbs/ft ³ (20 in)	lbs/ft ³
* Measured at the time of manufacture.		

Fiber Composition	100% Clean, Certified Weed Free Straw
Netting	0.50" x 0.50" Heavy Duty Synthetic
Configuration	Cylindrical with Closed Ends
End Closure	Hog Ring or Tied



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" 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 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.

Document # WE_EXCEL_LOG_II. Please contact Western Excelsior technical Support Division at 800-967-4009 with specific questions or for further information.

Slope/Channel Installation

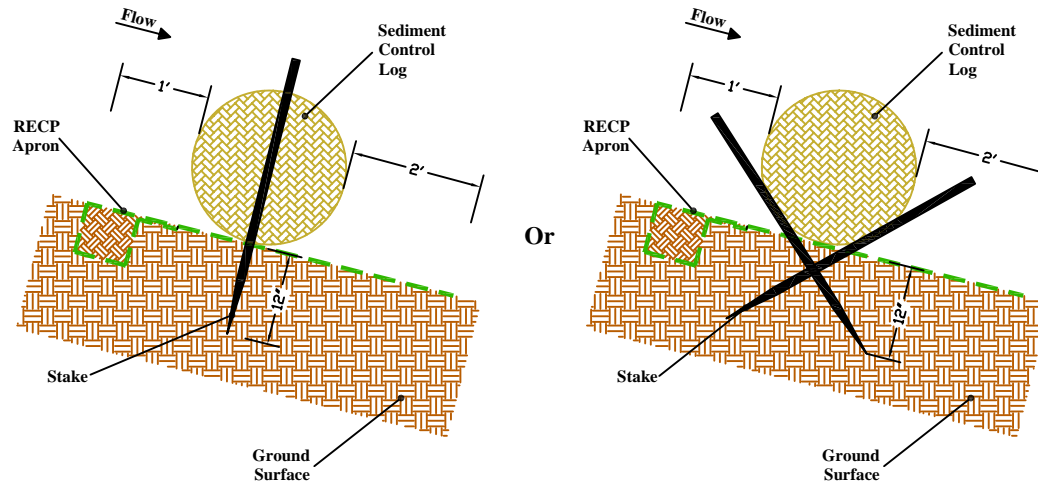


Figure A - Profile View

Flat Ground (Perimeter Guard) Installation

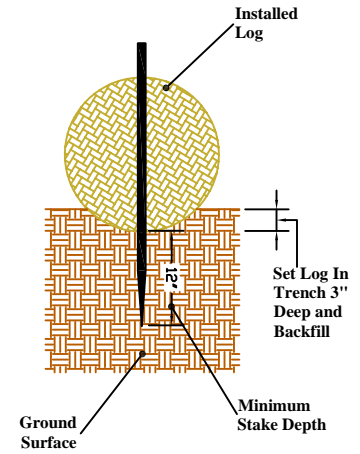
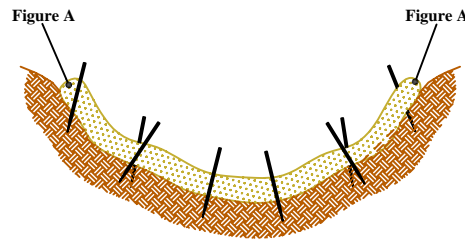


Figure B - Profile View

Channel Installation



Minimum stake in ground, 12"

Do not allow flow to overtop installation.

Figure C - Cross-Section View

Drain Filter

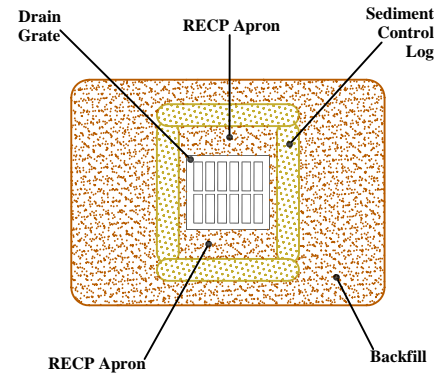


Figure D - Cross-Section View

Curbside Installation

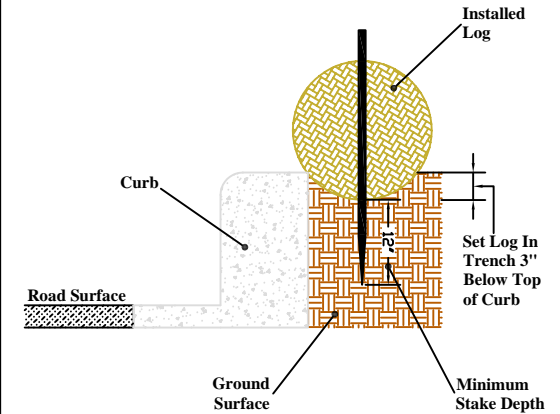


Figure E - Cross-Section View