



Standard Material Certification for Conformance and Delivery - Excel Straw Logs™

"Blanketing Nature With Nature"

To Whom it May Concern:

This document has been drafted to certify Western Excelsior manufactures the Rolled Erosion Control Product (RECP) marketed as Excel Straw Logs. Each blanket is subjected to Western Excelsior's Quality Assurance Program and is manufactured to the specifications listed in document number WE_EXCEL_ESL_SPEC. Further, Western Excelsior utilizes industry standardized test procedures to develop performance references for Excel Straw Logs. Document number WE_EXCEL_ESL_PERF presents the industry standardized testing and results. Installation instructions are provided in document numbers WE_EXCEL_ESL_SII and WE_EXCEL_ESL_CII for hillslope and channel installations, respectively. A copy of document number WE_EXCEL_ESL_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
Director, Technical Services
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Effective: 6/27/2017

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 that reads "Chad M. Lipscomb".

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



Material Properties and Dimensions

Excel Straw Logs™



Specifications

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, 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.

Each Excel Straw 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)	14.0 lbs (6.4 kg) 1.4 lbs/ft (2.1 kg/m) 3.3 lbs/ft ³ (52.3 kg/m ³)	28.0 lbs (12.7 kg) 1.4 lbs/ft (2.1 kg/m) 3.2 lbs/ft ³ (51.6 kg/m ³)	35.0 lbs (15.9 kg) 1.4 lbs/ft (2.1 kg/m) 3.2 lbs/ft ³ (51.5 kg/m ³)
12 in (0.31 m)	25.0 lbs (11.3 kg) 2.5 lbs/ft (3.7 kg/m) 3.3 lbs/ft ³ (53.0 kg/m ³)	50.0 lbs (22.7 kg) 2.5 lbs/ft (3.7 kg/m) 3.2 lbs/ft ³ (52.1 kg/m ³)	62.5 lbs (28.4 kg) 2.5 lbs/ft (3.7 kg/m) 3.2 lbs/ft ³ (51.9 kg/m ³)
18 in (0.46 m)	35.0 lbs (15.9 kg) 3.5 lbs/ft (5.2 kg/m) 1.7 lbs/ft ³ (33.5 kg/m ³)	70.0 lbs (31.8 kg) 3.5 lbs/ft (5.2 kg/m) 2.0 lbs/ft ³ (32.7 kg/m ³)	87.5 lbs (39.7 kg) 3.5 lbs/ft (5.2 kg/m) 2.0 lbs/ft ³ (32.5 kg/m ³)
20 in (0.51 m)	50.0 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	100% Clean, Weed free Straw
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.