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"Blanketing Nature With Nature"

Effective: 09/16/2011

RE: Certificate of Conformance: Excel SS-2 All Natural™

To Whom it May Concern:

This letter is to certify that Western Excelsior manufactures the Rolled Erosion Control Product (RECP) marketed as EXCEL SS-2 All Natural. Each blanket is subjected to Western Excelsior's Quality Assurance Program and is manufactured to the specifications listed in document number WE_EXCEL_SS2AN_SPEC. Further, Western Excelsior utilizes industry standardized test procedures to develop performance references for Excel SS-2 All Natural. Document number WE_EXCEL_SS2AN_PERF presents the industry standardized testing and results. Installation instructions are provided in document numbers WE_EXCEL_SS2AN_SII and WE_EXCEL_SS2AN_CII for hillslope and channel installations, respectively. A copy of document number WE_EXCEL_SS2AN_SPEC is attached; all other documentation may be obtained by calling Western Excelsior Technical Services at 1-800-967-4009, at www.westernexcelsior.com or by email at wexcotech@westernexcelsior.com.

Regards,

A handwritten signature in black ink, appearing to read "Chad M. Lipscomb". The signature is fluid and cursive, with the first letters of each word being capitalized and prominent.

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

MATERIAL PROPERTIES AND DIMENSIONS



EXCEL SS-2 ALL NATURAL™



Specifications

Western Excelsior manufactures a full line of Rolled Erosion Control Products (RECPs). Excel SS-2 All Natural temporary Erosion Control Blanket is composed of a certified weed free agricultural straw matrix mechanically (stitch) bonded on two inch centers between two biodegradable, jute/ scrim nets. Straw utilized in manufacturing the SS-2 All Natural is certified weed free. Thread utilized in the construction of the blanket is biodegradable cotton. The SS-2 All Natural blanket is recommended for use in channels or slopes requiring erosion protection for a period up to twelve months. Actual field longevity is dependent on soil and climatic conditions.

Each roll of EXCEL SS-2 All Natural is manufactured under Western Excelsior's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness. Verifiable values are provided in Table 1 and product characteristics are provided in Table 2.

Table 1- Specified Expected Values

Tested Property	Test Method	Value
Tensile Strength (MD) x (TD)	ASTM D6818	16.0 lb/in (2.8 kN/m) x 11.0 lb/in (1.9 kN/m)
Elongation (MD) x (TD)	ASTM D6818	20 % x 20 %
Mass Per Unit Area	ASTM D6475	8.0 oz/yd ² (271 g/m ²)
Thickness	ASTM D6525	0.28 in (7 mm)
Light Penetration	ASTM D6567	22 % open
Water Absorption	ASTM D1117	450 %

Table 2 - Netting

Top Net Type	Biodegradable, Jute Scrim Leno Weave
Bottom Net Type	Biodegradable, Jute Scrim Leno Weave
Top Net Opening Dimensions	0.5 in (13 mm) x 1.0 in (25 mm)
Bottom Net Opening Dimensions	0.5 in (13 mm) x 1.0 in (25 mm)

Excel SS-2 All Natural is available in multiple roll sizes ranging in width from 8.0 ft to 16.0 ft. and 112.5 ft to 600 ft in length. Standard roll sizes are 100 square yards, measuring 8.0 ft wide by 112.5 ft long. Custom roll sizes are available upon request.

Document # WE_EXCEL_SS2AN_SPEC. This document has been developed to provide the characteristic properties of the product described. For questions, to request performance data or installation recommendations, contact Western Excelsior at 800-967-4009 or wexcotech@westernexcelsior.com. Updated 09/16/2011.