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"Blanketing Nature With Nature"

Effective: 2/10/10

RE: Certificate of Conformance: *Excel CC-4*TM

To Whom it May Concern:

This letter is to certify that Western Excelsior manufactures the Rolled Erosion Control Product (RECP) marketed as EXCEL CC-4. Each blanket is subjected to Western Excelsior's Quality Assurance Program and is manufactured to the specifications listed in document number WE_EXCEL_CC4_SPEC. Further, Western Excelsior utilizes industry standardized test procedures to develop performance references for Excel CC-4. Document number WE_EXCEL_CC4_PERF presents the industry standardized testing and results. Installation instructions are provided in document numbers WE_EXCEL_CC4_SII and WE_EXCEL_CC4_CII for hill slope and channel installations, respectively. A copy of document number WE_EXCEL_CC4_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 written in a cursive, flowing style.

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



Material Properties and Dimensions



Description

Western Excelsior manufactures a full line of Rolled Erosion Control Products (RECPs). Excel CC-4 consists of a machine produced, clean coconut fiber matrix, manufactured for consistent coverage and thickness. The coconut matrix is confined by a UV stabilized photodegradable, synthetic net on top and bottom, mechanically (stitch) bound on two inch centers. Excel CC-4 is intended for slope or channel erosion control applications requiring up to thirty-six months of functional longevity. Actual field longevity is dependent on soil and climatic conditions.

Specifications

Each roll of EXCEL CC-4 is manufactured under Western Excelsior's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness. Verified values are provided in Table 1 and product characteristics are provided in Tables 2 and 3. Values provided in Tables 1, 2 and 3 represent expected values at the time of manufacture. Installation instructions and performance data are available from Western Excelsior's Technical Support Division.

Tested Property	Test Method	Value	Units
Tensile Strength	ASTM D6818	18.4 (MD), 12.7 (TD)	lb/in
Elongation	ASTM D6818	25 (MD), 25 (TD)	%
Mass per Unit Area	ASTM D6475	9.5	oz/yd ²
Thickness	ASTM D6525	6.5	mm
Light Penetration	ASTM D6567	15	% open
Water Absorption	ASTM D1117	250	%

Top Net	Synthetic UV Stabilized Photo-degradable
Bottom Net	Synthetic UV Stabilized Photo-degradable
Top Net Opening	0.75 in x 0.75 in (Nominal)
Bottom Net Opening	0.75 in x 0.75 in (Nominal)

Style	Narrow	Wide
Roll Width	7.5 ft	15.0 ft
Roll Length	120 ft	120 ft
Coverage	100 yd ²	200 yd ²
Roll Weight	55 lbs	110 lbs

Document # WE_EXCEL_CC4_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 10/09.