



Chad Lipscomb, PE, CPESC  
Director, Technical Services  
Western Excelsior Corporation  
PO Box 270308  
Fort Collins, CO 80527-0308  
970-631-8366 office  
chad@westernexcelsior.com

"Blanketing Nature With Nature"

---

Effective: 2/10/10

RE: Certificate of Conformance: *Excel CC-4 All Natural*<sup>™</sup>

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 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\_CC4AN\_SPEC. Further, Western Excelsior utilizes industry standardized test procedures to develop performance references for Excel CC-4 All Natural. Document number WE\_EXCEL\_CC4AN\_PERF presents the industry standardized testing and results. Installation instructions are provided in document numbers WE\_EXCEL\_CC4AN\_SII and WE\_EXCEL\_CC4AN\_CII for hill slope and channel installations, respectively. A copy of document number WE\_EXCEL\_CC4AN\_SPEC is attached; all other documentation may be obtained by calling Western Excelsior Technical Services at 1-800-967-4009, at [www.westernexcelsior.com](http://www.westernexcelsior.com) or by email at [wexcotech@westernexcelsior.com](mailto: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



## Description

Western Excelsior manufactures a full line of Rolled Erosion Control Products (RECPs). EXCEL CC-4 All Natural Extended Term Erosion Control Blanket consists entirely of coconut fibers manufactured into a matrix of uniform thickness and coverage. The coconut matrix is confined by a biodegradable, jute/scrim net on top and bottom, mechanically (stitch) bound on two inch centers with a biodegradable, cotton thread. Excel CC-4 All Natural is intended for slope and 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 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 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	16.0 (MD), 11.0 (TD)	lb/in
Elongation	ASTM D6818	20.0 (MD), 20.0 (TD)	%
Mass per Unit Area	ASTM D6475	9.5	oz/yd <sup>2</sup>
Thickness	ASTM D6525	6.5	mm
Light Penetration	ASTM D6567	15	% open
Water Absorption	ASTM D1117	250	%

Top Net	Biodegradable Jute/Scrim (Leno Weave)
Bottom Net	Biodegradable Jute/Scrim (Leno Weave)
Top Net Opening	0.5 in x 1.0 in (Nominal)
Bottom Net Opening	0.5 in x 1.0 in (Nominal)

Style	Narrow	Wide
Roll Width	8.0 ft	16.0 ft
Roll Length	112.5 ft	112.5 ft
Coverage	100 yd <sup>2</sup>	200 yd <sup>2</sup>
Roll Weight	55 lbs	110 lbs

Document # WE\_EXCEL\_CC4AN\_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.