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“Blanketing Nature With Nature”

Effective: 06/08/07

RE: Certificate of Conformance: *Excel R-1*[™]

To Whom it May Concern:

This letter is to certify that Western Excelsior manufactures the Rolled Erosion Control Product (RECP) marketed as EXCEL R-1. Each blanket is subjected to Western Excelsior’s Quality Assurance Program and is manufactured to the specifications listed in document number WE_EXCEL_R1_SPEC. Further, Western Excelsior utilizes industry standardized test procedures to develop performance references for Excel R-1. Document number WE_EXCEL_R1_PERF presents the industry standardized testing and results. Installation instructions are provided in document numbers WE_EXCEL_R1_SII and WE_EXCEL_R1_CII for hill slope and channel installations, respectively. A copy of document number WE_EXCEL_R1_SPEC is attached; all other documentation may be obtained by calling Western Excelsior Technical Services at 1-800-967-4009 or by email at wexcotech@westernexcelsior.com.

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 a full line of Rolled Erosion Control Products (RECPs). Excel R-1 temporary Erosion Control Blanket is composed of a 100% machine produced High Altitude Rocky Mountain Aspen Excelsior matrix mechanically (stitch) bonded on two inch centers to a single photodegradable, synthetic net. The excelsior matrix consists of curled, machine produced fibers with greater than eighty percent longer than six inches. Excel R-1 blanket is available in natural color or dyed green and 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.

Specifications

Each roll of EXCEL R-1 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	5.0 (MD), 4.0 (TD)	lb/in
Elongation	ASTM D6818	20 (MD), 25 (TD)	%
Mass per Unit Area	ASTM D6566	11.5	oz/yd ²
Thickness	ASTM D1777	10.0	mm
Light Penetration	ECTC TASC 00197	50	% open
Water Absorption	ASTM D1117	375	%

Top Net	Synthetic Photo-degradable
Bottom Net	N/A
Top Net Opening	1.00 in x 0.75 in (Nominal)
Bottom Net Opening	N/A

Style	Narrow	Wide
Roll Width	4 ft	8 ft
Roll Length	180 ft	90 ft
Coverage	80 yd ²	80 yd ²
Roll Weight	65 lbs	65 lbs

Document # WE_EXCEL_R1_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 06/07.