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"Blanketing Nature With Nature"

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Effective: 2/10/10

RE: Certificate of Conformance: *Excel R-1*<sup>TM</sup>

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, 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".

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 fifteen 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),<br>4.0 (TD) | lb/in              |
| Elongation         | ASTM D6818  | 12 (MD),<br>10 (TD)   | %                  |
| Mass per Unit Area | ASTM D6475  | 9.1                   | oz/yd <sup>2</sup> |
| Thickness          | ASTM D6525  | 8.4                   | mm                 |
| Light Penetration  | ASTM D6567  | 37                    | % open             |
| Water Absorption   | ASTM D1117  | 275                   | %                  |

|                    |                             |
|--------------------|-----------------------------|
| 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 <sup>2</sup> | 80 yd <sup>2</sup> |
| Roll Weight | 51 lbs             | 51 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 02/10.