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"Blanketing Nature With Nature"

Effective: 2/10/10

RE: Certificate of Conformance: *Excel PP5-10*TM

To Whom it May Concern:

This letter is to certify that Western Excelsior manufactures the Rolled Erosion Control Product (RECP) marketed as EXCEL PP5-10. Each blanket is subjected to Western Excelsior's Quality Assurance Program and is manufactured to the specifications listed in document number WE_EXCEL_PP510_SPEC. Further, Western Excelsior utilizes industry standardized test procedures to develop performance references for Excel PP5-10. Document number WE_EXCEL_PP510_PERF presents the industry standardized testing and results. Installation instructions are provided in document numbers WE_EXCEL_PP510_SII and WE_EXCEL_PP510_CII for hill slope and channel installations, respectively. A copy of document number WE_EXCEL_PP510_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.

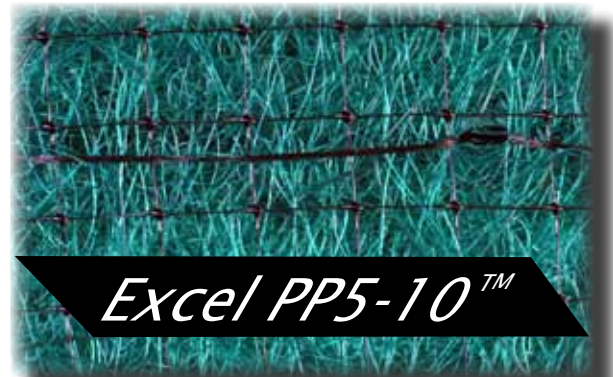
Regards,

A handwritten signature in black ink, appearing to read "Chad M. Lipscomb". The signature is fluid and cursive, with the first letters of each name 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 PP5-10 Turf Reinforcement Mat is composed of 100% synthetic components. A matrix of green polypropylene fibers is mechanically (stitch) bound between two UV stabilized, heavy duty synthetic nets. Stitching is secured on two inch centers using UV stabilized, heavy duty polypropylene thread. Excel PP5-10 is a permanent, three-dimensional TRM that provides immediate erosion protection and long term turf reinforcement and is intended for slope or channel applications requiring erosion protection for greater than thirty-six months.

Specifications

Each roll of EXCEL PP5-10 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 Table 2. Values provided in Tables 1 and 2 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	20.8 (MD), 17.7 (TD)	lb/in
Elongation	ASTM D6818	25 (MD), 25 (TD)	%
Mass per Unit Area	ASTM D6475	10.0	oz/yd ²
Thickness	ASTM D6525	9.2	mm
Light Penetration	ASTM D6567	25	% open
Resiliency	ASTM D6524	87	%
UV Stability	ASTM 4355	100	%
Porosity	Computed	96	%

Top Net	Synthetic, UV Stable
Bottom Net	Synthetic, UV Stable
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	63 lbs	126 lbs