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04/16/19

RE: Certification of Conformance and Delivery for PP5-Pro

To Whom it May Concern:

This document has been drafted to provide certification as to the origin, properties and delivery of PP5-Pro, an Erosion Control Blanket (ECB). PP5-Pro is produced by Western Excelsior Corporation (WEC). The material is produced in the United States. Each roll is subjected to regular inspection and testing in accordance with the WEC Quality Assurance Program. Properties and specifications of the material are provided on document number WE_EXCEL_PP5-PRO_SPEC, attached as reference. Installation documentation may be found at www.westernexcelsior.com.

Since most WEC products are sold to distributors and stocked, WEC is typically unable to certify material type or quantity delivered to the project/project site. However, space is provided below for distributor/contractor certification of materials delivered to the project/project site.

To the best of our knowledge, the information included is accurate.

A handwritten signature in black ink, appearing to read "Jill Pack", is written over a horizontal line.

Jill Pack, CPESC
Product Manager
Western Excelsior Corporation

Standard Material Delivery Certification

Material Provided by (Distributor/Contractor):	_____
Material Provided to (Contractor/Project):	_____
Project Name / Project Number:	_____
Rolls / Square Yards Provided:	_____
Specification #:	_____
Signature: _____	Date: _____
Title: _____	

WE_COD_PP5-PRO



MATERIAL PROPERTY DATA SHEET



EXCEL® PP5-Pro™

Permanent • 3-D Woven • UV Stable • High Performance Turf Reinforcement Mat



Specifications

The Excel PP5-Pro™ high-performance turf reinforcement mat (HP-TRM) is a machine-produced mat of 100% UV-stabilized, high denier polypropylene monofilament yarns woven into permanent, high-strength, three-dimensional turf reinforcement matting. Available in either a green or a tan coloring, the mat is composed of polypropylene yarns woven into a uniform resilient matrix with a repeating diamond pattern relief. The mat provides sufficient thickness, optimum open area, and three-dimensionality for effective erosion control and vegetation reinforcement against high flow induced shear forces. The mat has high tensile strength for excellent damage resistance and for increasing the bearing capacity of vegetated soils subject to heavy loads from maintenance equipment and other vehicular traffic. The material has very high interlock and reinforcement capacities with both soil and root systems and is designed for erosion control applications on steep slopes and vegetated waterways.

Material Content		
Woven Structure	100% UV stable Polypropylene Monofilament yarns	Green or Tan
Standard Roll Sizes		
Width	11.5 ft (3.5 m)	
Length	78 ft (23.4 m)	
Weight	43.8 lbs (19.8 kg)	
Area	100 sy (83.6 m ²)	

Disclaimer: The information contained herein may represent product index data, performance ratings, bench scale testing or other material utility quantifications. Each representation may have unique utility and limitations. Every effort has been made to ensure accuracy, however, no warranty is claimed and no liability shall be assumed by Western Green or its affiliates regarding the completeness, accuracy or fitness of these values for any particular application or interpretation. While testing methods are provided for reference, values shown may be derived from interpolation or adjustment to be representative of intended use. For further information, please feel free to contact Western Green.

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Index Property	Test Method	Typical
Thickness	ASTM D6525	0.3 in (8 mm)
Mass/Unit Area	ASTM D6566	7.0 oz/yd ² (235 g/m ²)
Tensile Strength ⁺ – MD	ASTM D6818	3,000 lbs/ft (44 kN/m)
Elongation -MD	ASTM D6818	25%
Tensile Strength ⁺ – TD	ASTM D6818	3,000 lbs/ft (44 kN/m)
Elongation -TD	ASTM D6818	25%
Light Penetration	ASTM D6567	65% coverage
UV Stability	ASTM D4355	>90% @ 3000 hr

Design Thresholds*

Vegetated Shear	12 psf (575 Pa)
Vegetated Velocity	20 fps (6.1 m/s)

Manning's n Roughness Coefficients

τ _{lower}	0.032
τ _{mid}	0.030
τ _{upper}	0.028

* Minimum Average Roll Value

*Design recommendations determined from large scale testing and analysis via ASTM D6460

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