



**ROLLMAX™**  
ROLLED EROSION CONTROL

## Specification Sheet – EroNet™ P300® Permanent Erosion Control Blanket

### DESCRIPTION

The permanent erosion control blanket shall be a machine-produced mat of 100% UV stable polypropylene fiber. The matting shall be of consistent thickness with the synthetic fibers evenly distributed over the entire area of the mat. The matting shall be covered on the top side with black heavyweight UV-stabilized polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.50 x 0.50 inch (1.27 x 1.27 cm) mesh. The bottom net shall also be UV-stabilized polypropylene with a 0.63 x 0.63 inch (1.57 x 1.57 cm) mesh size. The blanket shall be sewn together on 1.5 inch (3.81 cm) centers with non-degradable thread. All mats shall be manufactured with a colored thread stitched along both outer edges as an overlap guide for adjacent mats. The P300 shall meet Type 5A, 5B, specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.18

#### Material Content

<b>Matrix</b>	100% UV stable Polypropylene Fiber	0.7 lbs/sq yd (0.38 kg/sm)
	Top: UV-stabilized Polypropylene	5 lbs/1000 sq ft (24.4 g/sm)
<b>Netting</b>	Bottom: UV-stabilized Polypropylene	3 lbs/1000 sq ft (14.7 g/sm)
<b>Thread</b>	Polypropylene, UV stable	

#### Standard Roll Sizes

<b>Width</b>	6.5 ft (2.0 m)	8 ft (2.44 m)
<b>Length</b>	108 ft (32.92 m)	112 ft (35.14 m)
<b>Weight ± 10%</b>	61 lbs (27.66 kg)	76.25 lbs (34.59 kg)
<b>Area</b>	80 sq yd (66.0 sm)	100 sq yd (83.61 sm)

#### Slope Design Data: C Factors

##### Slope Gradients (S)

<b>Slope Length (L)</b>	≤ 3:1	3:1 – 2:1	≥ 2:1
<b>≤ 20 ft (6 m)</b>	0.001	0.029	0.082
<b>20-50 ft</b>	0.036	0.060	0.086
<b>≥ 50 ft (15.2 m)</b>	0.070	0.090	0.110

Index Property	Test Method	Typical
<b>Thickness</b>	ASTM D6525	0.47 in. (11.94 mm)
<b>Resiliency</b>	ASTM D6524	91.5%
<b>Density</b>	ASTM D792	0.916 g/cm <sup>3</sup>
<b>Mass/Unit Area</b>	ASTM 6566	13.03 oz/sy (443 g/m <sup>2</sup> )
<b>UV Stability</b>	ASTM D4355/1000 hr	90%
<b>Porosity</b>	ECTC Guidelines	95.89%
<b>Stiffness</b>	ASTM D1388	0.94 in-lb (1085378 mg-cm)
<b>Light Penetration</b>	ASTM D6567	17.9%
<b>Tensile Strength - MD</b>	ASTM D6818	438 lbs/ft (6.49 kN/m)
<b>Elongation - MD</b>	ASTM D6818	28.1%
<b>Tensile Strength - TD</b>	ASTM D6818	291.9 lbs/ft (4.32 kN/m)
<b>Elongation - TD</b>	ASTM D6818	26.7%
<b>Biomass Improvement</b>	ASTM D7322	497%

#### Design Permissible Shear Stress

	Short Duration	Long Duration
<b>Phase 1: Unvegetated</b>	3.0 psf (144 Pa)	2.0 psf (96 Pa)
<b>Phase 2: Partially Veg.</b>	8.0 psf (383 Pa)	8.0 psf (383 Pa)
<b>Phase 3: Fully Veg.</b>	8.0 psf (383 Pa)	8.0 PSF (383 Pa)
<b>Unvegetated Velocity</b>	9.0 fps (2.7 m/s)	
<b>Vegetated Velocity</b>	16 fps (4.9 m/s)	

#### Roughness Coefficients – Unveg.

Flow Depth	Manning's n
<b>≤ 0.50 ft (0.15 m)</b>	0.034
<b>0.50 – 2.0 ft</b>	0.034-0.020
<b>≥ 2.0 ft (0.60 m)</b>	0.020



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