



ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet – EroNet™ P300® LW 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 and bottom side with a UV-stabilized polypropylene net with a 0.63 x 0.63 inch (1.57 x 1.57 cm) mesh size. The blanket shall be sewn together on 1.50 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 P300LW 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

Matrix	100% UV-stabilized polypropylene Fiber Weave	0.5 lbs/sq yd (0.27 kg/sm)
Netting	Top and bottom net, UV-stabilized polypropylene	3 lbs/1000 sq ft (14.7 g/sm)
Thread	Polypropylene, UV stable	

Standard Roll Sizes

Width	6.5 ft (2.0 m)	8 ft (2.44 m)
Length	108 ft (32.92 m)	112 ft (35.14 m)
Weight ± 10%	45 lbs (20.4 kg)	56.25 lbs (25.5 kg)
Area	80 sq yd (66.9 sm)	100 sq yd (83.61 sm)

Slope Design Data: C Factors

Slope Gradients (S)

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

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.30 in. (7.68 mm)
Density	ASTM D792	0.916 g/cm ³
Mass/Unit Area	ASTM 6566	8.92 oz/sy (300 g/m ²)
UV Stability	ASTM D4355/1000 hr	90%
Light Penetration	ASTM D6567	27.6%
Tensile Strength - MD	ASTM D6567	430 lbs/ft (6.38 kN/m)
Elongation - MD	ASTM D6818	37%
Tensile Strength - TD	ASTM D6818	150 lbs/ft (2.22 kN/m)
Elongation - TD	ASTM D6818	28%
Biomass Improvement	ASTM D7322	471%

Design Permissible Shear Stress

	Short Duration	Long Duration
Phase 1: Unvegetated	2.0 psf (96 Pa)	2.0 psf (96 Pa)
Phase 2: Partially Veg.	6.0 psf (287 Pa)	4.0 psf (191 Pa)
Phase 3: Fully Veg.	8.0 psf (383 Pa)	6.0 psf (287 Pa)

Roughness Coefficients – Unveg.

Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.030
0.50 – 2.0 ft	0.030-0.018
≥ 2.0 ft (0.60 m)	0.018

Tensar
NORTH AMERICAN GREEN®

Tensar International Corporation
2500 Northwinds Parkway
Suite 500
Alpharetta, GA 30009
800-TENSAR-1
tensarcorp.com

Tensar International Corporation warrants that at the time of delivery the product furnished hereunder shall conform to the specification stated herein. Any other warranty including merchantability and fitness for a particular purpose, are hereby executed. If the product does not meet specifications on this page and Tensar is notified prior to installation, Tensar will replace the product at no cost to the customer. **This product specification supersedes all prior specifications for the product described above and is not applicable to any products shipped prior to January 1, 2012.**

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