

MATERIAL PROPERTY DATA SHEET

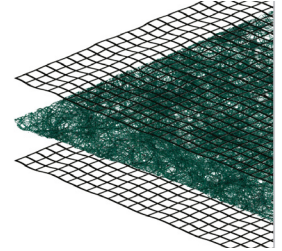


P300LW™

Permanent • Double Net • Poly-Fiber Matrix • Turf Reinforcement Mat

DESCRIPTION

P300LW Turf Reinforcement Mat (TRM) is composed of 100% synthetic green fibers mechanically (stitch) bound between two UV stabilized, synthetic nets. Stitching is secured on two-inch centers using UV stabilized, synthetic thread. P300LW is a permanent, three-dimensional TRM that provides immediate erosion protection and long-term turf reinforcement and is intended for applications requiring erosion protection for greater than thirty-six months.



Each roll of P300LW is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

Material Content

Matrix	Synthetic Fibers
Netting	Top Net: Mediumweight, UV stable Bottom Net: Mediumweight, UV stable
Thread	Synthetic, UV Stable

Standard Roll Sizes

Width	8 ft (2.4 m)	16 ft (4.9 m)
Length	112 ft (34.0 m)	112 ft (34.0 m)
Weight ± 10%	59 lb (27.0 kg)	118 lb (54.0 kg)
Area	100 sy (83.6 m ²)	200 SY (167.0 m ²)

Material available in custom roll sizes

Approvals & Classification

Classification	FHWA: Type 5.B / ECTC: Type 5.B
TTI Approvals	Class 2 Type H
NTPEP Number	N/A

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Index Property Test Method Typical

Thickness	ASTM D6525	0.30 in. (8 mm)
Mass/Unit Area	ASTM D6566	8.0 oz/sy (275 g/sm)
Tensile Strength – MD	ASTM D6818	300 lbs/ft (4.4 kN/m)
Tensile Strength – TD	ASTM D6818	200 lbs/ft (2.9 kN/m)
Elongation - MD	ASTM D6818	25%
Elongation – TD	ASTM D6818	30%
UV Stability	ASTM D4355	80% @1000 hr
Light Penetration	ASTM D6567	30%
Biomass Improvement	ASTM D7322	400%
Specific Gravity	ASTM D792	57.4 lb/ft ³ (0.92 g/cm ³)
Porosity	ECTC	96%

Design Parameters

Property	Unvegetated	Vegetated ³
RUSLE C Factor ²	0.10	N/A
Slope Maximum Gradient ¹	1H:1V	1H:1V
Permissible Shear Stress ²	2.0 psf (95 Pa)	8.0 psf (385 Pa)
Permissible Velocity ²	7.0 fps (2.1 m/s)	12.0 fps (3.7 m/s)
τ_{veg} / τ_{TRM} (HEC-15)	N/A	0.67

Manning's n Roughness (HEC-15)

τ_{lower}	τ_{mid}	τ_{upper}
0.031	0.030	0.029

1 Maximum Gradient a recommendation for typical installations.

2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.

3 Vegetated values dependent on established stand of vegetation



Rev. 4.2023

Scan for additional and updated product information, or [click here.](#)

