MATERIAL PROPERTY DATA SHEET

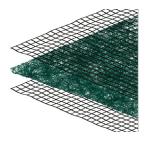


P300[™]

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

DESCRIPTION

P300 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. P300 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 P300 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%	75 lb	(34.0 kg)	150 lb	(68.0 kg)	
Area	100 sy	(83.6 m²)	200 SY	(167.0 m ²)	

Material available in custom roll sizes

Approvals & Classification				
Classification	FHWA: Type 5.C / ECTC: 5.D			
TTI Approvals	Class 2 Type H			
NTPEP Number	ECP-2020-01-15			

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Index Property	Test Method	Typical			
Thickness	ASTM D6525	0.40 in.	(10 mm)		
Mass/Unit Area	ASTM D6566	12.0 oz/sy	(400 g/sm)		
Tensile Strength – MD	ASTM D6818	325 lbs/ft	(4.7 kN/m)		
Tensile Strength – TD	ASTM D6818	225lbs/ft	(3.3 kN/m)		
Elongation - MD	ASTM D6818	25%			
Elongation – TD	ASTM D6818	30%			
UV Stability	ASTM D4355	80% @1000 hr			
Light Penetration	ASTM D6567	20%			
Biomass Improvement	ASTM D7322	400%			
Specific Gravity	ASTM D792	57.4 lb/ft ³	(0.92 g/cm ³)		
Porosity	ECTC	9	96%		
Design Parameters					
Property	Unvegetated	Vegetated	1 ³		
RUSLE C Factor ²	0.03	N/A			
Slope Maximum Gradient ¹	0.5H:1V	0.5H:1V			
Permissible Shear Stress ²	2.8 psf (135 Pa)	12.0 psf (12.0 psf (575 Pa)		
Permissible Velocity ²	9.0 fps (2.7 m/s)	18.0 fps (18.0 fps (5.5 m/s)		

Manning's n Roughness (HEC-15)

τ_{lower}	τ_{mid}	τ _{upper}
0.041	0.033	0.028

0.55

1 Maximum Gradient a recomendation 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

N/A

Rev. 4.2023

 τ_{veg} / τ_{TRM} (HEC-15)

Scan for additional and updated product information, or <u>click here.</u>



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