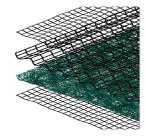
MATERIAL PROPERTY DATA SHEET



Permanent • Triple Net • Synthetic Fiber Matrix •

DESCRIPTION

P550 Turf Reinforcement Mat (TRM) is composed of 100% synthetic fibers mechanically (stitch) bound between a three-dimensional UV stabilized, heavy duty synthetic net structure. Stitching is secured on two-inch centers using UV stabilized, synthetic thread. P550 is a permanent, threedimensional 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 P550 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		
Netting	Top Net: Heavyweight, UV stable Middle Net: Corrugated Ultra-Heavyweight, UV stable Bottom Net: Heavyweight, UV stable		
Thread	Synthetic, UV Stable		

Standard Roll Sizes				
Width	8 ft	(2.4 m)	6.5 ft	(2.0 m)
Length	67.5 ft	(20.5 m)	55.5 ft	(17.0 m)
Weight ± 10%	78 lb	(36.0 kg)	52 lb	(24.0 kg)
Area	60 sy	(50.1 m ²)	40 sy	(33.4 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-2019-03-012

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	Ту	pical
Thickness	ASTM D6525	0.63 in.	(16 mm)
Mass/Unit Area	ASTM D6566	21.0 oz/sy	(700 g/sm)
Tensile Strength – MD	ASTM D6818	1,000 lbs/ft	(14.6 kN/m)
Tensile Strength – TD	ASTM D6818	1,000 lbs/ft	(14.6 kN/m)
Elongation - MD	ASTM D6818	2	25%
Elongation – TD	ASTM D6818	2	20%
UV Stability	ASTM D4355	90% @	@1000 hr
Light Penetration	ASTM D6567	-	10%
Biomass Improvement	ASTM D7322	4	00%
Specific Gravity	ASTM D792	57.4 lb/ft ³	(0.92 g/cm ³)
Porosity	ECTC	g	95%

Design Parameters			
Property	Unvegetated	Vegetated ³	
RUSLE C Factor ²	0.03	N/A	
Slope Maximum Gradient ¹	0.5H:1V	0.5H:1V	
Permissible Shear Stress ²	3.3 psf (160 Pa)	14.0 psf (670 Pa)	
Permissible Velocity ²	12.0 fps (3.7 m/s)	20.0 fps (6.1 m/s)	
$\tau_{\text{veg}} / \tau_{\text{TRM}}$ (HEC-15)	N/A	0.55	

Manning's n Rou	ghness (HEC-15)		
τ_{lower}	$ au_{mid}$	$ au_{upper}$	
0.040	0.031	0.027	

- 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



Scan for additional and updated product information, or click here.



