



## Product Data Sheet

### ■ Landlok® TRM-450

Carthage Mills' Landlok® TRM-450 turf reinforcement mat is a permanent nondegradable composite consisting of a dense web of green polypropylene fibers between two biaxially oriented nets that are mechanically bound together by parallel lock-stitching using polypropylene thread. TRM-450 was designed to reinforce and enhance vegetation performance in critical applications. The excellent strength and elongation properties of the matrix limit stretching in saturated conditions, and the UV stabilized synthetic construction of TRM-450 make it ideal for long-term ground cover and erosion protection. Because it is installed on top of soil and seed, TRM-450 is also ideal for sites in which aesthetics are desired immediately.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Physical</b>			
Mass Per Unit Area	ASTM D 6566	340 g/m <sup>2</sup>	10.0 oz/yd <sup>2</sup>
Thickness	ASTM D 6525	12.7 mm	0.50 in
Resiliency		80%	
Moisture Absorption	ASTM D 570	0.01% (max)	
Porosity	Calculated	95%	
Ground Cover Factor	ASTM D 6567	74%	
<input type="checkbox"/> <b>Performance / Design Values</b>			
Shear Stress – Short Duration	Maximum design values listed were obtained under unvegetated and vegetated, short-term (0.5 hrs) flow conditions providing <0.5 inches (12.5 mm) of channel deformation.		
Vegetated		380 N/m <sup>2</sup>	8 lb/ft <sup>2</sup>
Unvegetated		240 N/m <sup>2</sup>	5 lb/ft <sup>2</sup>
<i>Natural Vegetation – Class C<sup>1</sup></i>		45 N/m <sup>2</sup>	1 lb/ft <sup>2</sup>
Velocity – Short Duration			
Vegetated		5.5 m/sec	18 ft/sec
Unvegetated	5.5 m/sec	18 ft/sec	
<i>Natural Vegetation – Class C<sup>1</sup></i>	1.5 m/sec	5 ft/sec	
<input type="checkbox"/> <b>Endurance</b>			
UV Resistance	ASTM D 4355	80% @ 1000 hrs	
<input type="checkbox"/> <b>Mechanical</b>			
Tensile Strength	ASTM D 6818	3.65 x 2.92 kN/m	250 x 200 lb/ft
Tensile Elongation		50% (max)	
<input type="checkbox"/> <b>Dimensional</b>			
Standard Roll Size / Packaging <small>(Special sizes, packaging and fabrication are available.)</small>	Measured (Typical)	2.0 m x 42.2 m 83.6 m <sup>2</sup> 28.6 kg 58.4 cm diameter	6.5 ft x 138.5 ft 100 yd <sup>2</sup> 63 lbs 23 in. diameter

<sup>1</sup> Values for 'Natural Vegetation' are listed for comparison purposes only.

Unless otherwise noted, all properties reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.

The properties reported above are effective 11/17/03 and are subject to change without notice.

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