Carthage Mills **Product Data**

TRX™–100 Turf Reinforcement Mat

Carthage Mills' **TRX™–100** turf reinforcement mat is a flexible three-dimensional turf reinforcement system designed to reinforce and enhance vegetation performance in critical applications. **TRX™–100** is made from a dense matrix of green polypropylene fibers between two biaxially oriented nets that are mechanically bound together by parallel lock-stitching on 2 inch centers using polypropylene thread. **TRX™–100** provides permanent erosion control solutions on slopes and in channels where desired performance exceeds the limits of natural vegetation.

PROPERTY / TEST DESCRIPTION	TEST METHOD / PARAMETERS	DATA / RESULTS
☐ **Physical / Mechanical** (TRX™–100 System)		
Mass Per Unit Area	ASTM D 6566	10.0 oz/yd^2
Tensile Strength	ASTM D 6818	21.3 x 14.2 lb/in 255.6 x 170.4 lb/ft
Tensile Elongation		24.3 x 31.2%
Thickness	ASTM D 6525	329 mils
Ground Cover / Light Penetration	ASTM D 6567	77%
Specific Gravity – (Net Only)	ASTM D 792	0.887 g/cm^3
☐ **Performance / Design Values**		
ECTC Method 2: Determination of Unvegetated RECP's ability to Protect Soil from Rain Splash and Associated Runoff under Bench-Scale Conditions	50 mm (2 in) / hr for 30 min	Soil Loss Ratio* = 8.70
	100 mm (4 in)hr / for 30 min	Soil Loss Ratio* = 8.83
	150 mm (6 in) / hr for 30 min	Soil Loss Ratio* = 8.96
ECTC Method 3: Determination of Unvegetated RECP's ability to Protect Soil from Hydraulically-Induced Shear under Bench-Scale Conditions	Shear: 2.13 psf for 30 min	Soil Loss = 193.3 g
	Shear: 2.73 psf for 30 min	Soil Loss = 525.0 g
	Shear: 3.35 psf for 30 min	Soil Loss = 926.7 g
	Soil Loss Curve Intercept	2.73 psf @ ½ in Soil Loss
ECTC Method 4: Determination of Temporary Degradable RECP's Performance in Encouraging Seed Germination and Plant Growth	Top Soil; Fescue (Kentucky 31); 21 day incubation; 27±2° and approximately 45 ±5% RH	% Improvement = 478% (Increased Biomass)
☐ **Physical / Description**		
Matrix / Fill	Polymer	100% Polypropylene
Netting	UV Stabilized / Heavy Weight Polypropylene / Top and Bottom	3/8" x 3/8" openings
Stitching	100% Synthetic	2 in center/transverse stitch spacing
Standard Roll Sizes / Packaging	Measured	7.5 ft x 120 ft 100 yd^2
		15.0 ft x 120 ft 200 yd^2

* Soil Loss Ratio = Soil Loss Bare Soil / Soil Loss with RECP = 1 / C-Factor (Note: Soil Loss is based on Regression Analysis
□ The properties reported above are effective 10/03/08 and are subject to change without notice.

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