



TRX™-105 Turf Reinforcement Mat

Description: The TRX™-105 is made with uniformly distributed 100% green polypropylene fiber and two heavy weight polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are placed inside vented bags and include a product label, code and installation guide. The blankets are palletized for easy transportation.

The TRX™-105 is a permanent turf reinforcement mat and is suitable for slopes 1:1 and high flow channels. The TRX™-105 meets Type 5.A and 5.B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

Materials:

Netting - Top and Bottom

Heavyweight 5# PMSF UV Stabilized Polypropylene
.5" x .5" Opening

Matrix

100% Polypropylene Fiber
0.63 lbs/sq yd

Thread

UV Stabilized
1.50" stitch spacing

Roll Sizes:

Standards

Width:	7.5 ft (2.3 m)	7.5 ft (2.3 m)
Length:	96.0 ft (29.3 m)	120.0 ft (36.6 m)
Weight $\pm 10\%$:	50.0 lbs(29.5 kg)	63 lbs (36.7 kg)
Area:	80 yd ² (66.9 m ²)	100 yd ² (83.6 m ²)
#/Pallet:	16	16

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	10 oz/yd ²
Thickness	ASTM D6525	.35 in
Tensile Strength-MD	ASTM D6818	404 lb/ft
Elongation-MD	ASTM D6818	21.5 %
Tensile Strength-TD	ASTM D6818	415 lb/ft
Elongation-TD	ASTM D6818	22 %
Light Penetration	ASTM D6567	15 %
Density	ASTM D7912	.80 %
UV Resistance	ASTM D4355-1000 hr	82 %

* May differ depending upon raw material variations

Bench-Scale Testing* (NTPEP):

Test Method	Parameters	Results
ECTC Method 2 Rainfall	50mm (2in) / hr-30 min	SLR**=
	100mm (4in) / hr-30 min	SLR**=
	150mm (6in) / hr-30 min	SLR**=
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	N/A
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	N/A

*Bench scale tests should not be used for design purposes.
**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor (soil loss is based on regression analysis).

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