ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet

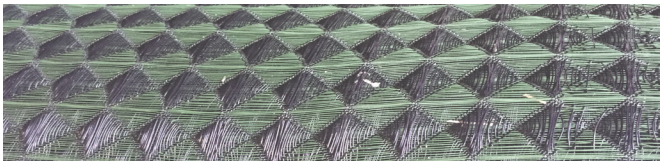
TMax™ High-Performance Turf Reinforcement Mat

DESCRIPTION

The TMax™ high-performance turf reinforcement mat (HP-TRM) shall be a machine-produced mat of 100% UV-stabilized, high denier polypropylene monofilament yarns woven into permanent, high-strength, three-dimensional turf reinforcement matting. Available in either a green/black or a tan/black coloring, the mat shall be composed of polypropylene yarns woven into a uniform configuration of resilient, pyramid-like projections. The mat provides sufficient thickness, optimum open area, and three-dimensionality for effective erosion control and vegetation reinforcement against high flow induced shear forces. The mat has high tensile strength for excellent damage resistance and for increasing the bearing capacity of vegetated soils subject to heavy loads from maintenance equipment and other vehicular traffic. The material has very high interlock and reinforcement capacities with both soil and root systems, and is designed for erosion control applications on steep slopes and vegetated waterways.

Material Content		
Woven Structure	100% UV stable Polypropylene Monofilament yarns	Black/Green or Black/Tan

Standard Roll Sizes		
Width	11.5 ft (3.5 m)	11.5 ft (3.5 m)
Length	78 ft (23.8 m)	156 ft (47.5 m)
Weight ± 10%	72 lbs (32.7 kg)	143.5 lbs (65.1 kg)
Area	100 yd^2 (83.6 m^2)	200 yd^2 (167 m^2)



Index Property	Test Method	Typical
Thickness	ASTM D6525	0.4 in (10 mm)
Resiliency	ASTM D6524	75%
Mass/Unit Area	ASTM D6566	11.3 oz/yd^2 (382 g/m^2)
Tensile Strength – MD	ASTM D6818	4,400 lbs/ft (64 kN/m)
Elongation – MD	ASTM D6818	35%
Tensile Strength – TD	ASTM D6818	3,300 lbs/ft (48.2 kN/m)
Elongation – TD	ASTM D6818	30%
Light Penetration	ASTM D6567	75% coverage
UV Stability	ASTM D4355	>90% @ 3000 hr
Design Permissible Shear Stress*		
Vegetated Shear	16 psf (766 Pa)	
Vegetated Velocity	25 fps (7.6 m/s)	

+ Minimum Average Roll VAlue

*Design values extrapolated from large scale ASTM D6460 testing

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