



Solutions for your Environment™

Futerra® TRM 7003

Turf Reinforcement Mat

Description

Futerra® 7003 is a lightweight three-dimensional turf reinforcement mat (TRM) made of continuous monofilaments fused at their intersections. Ninety-five (95%) percent of the Futerra TRM is open and available for soil, mulch and root interaction, creating one of the most effective turf reinforcement mats available. Futerra is manufactured from nylon to eliminate the buoyancy factor associated with submerged conditions and provides permanent TRM protection in vegetated channels and slopes.

Recommended Applications

- Permanent erosion control for slight to moderate slopes (≤2H:1V).
- Support and enhance performance of ecosystem plants.
- Substrate for hydraulically applied High Performance-Flexible Growth Medium™ (HP-FGM™) to create the GreenArmor™ System.

Technical Data

Mechanical Properties	Test Method	Units	Roll Value	
<i>The TRM, when infilled with HP-FGM, shall meet the following property values:</i>			Typical	MARV
Mass/Unit Area	ASTM D6566	oz/yd ² (g/m ²)	5.0 (170)	4.5 (150)
Thickness (Min)	ASTM D6525	inches (mm)	0.3 (7.5)	0.25 (6.3)
Tensile Strength	ASTM D6818	lb/ft (kN/m)	150 (2.2)	125 (1.8)
Resiliency (Min)	ASTM D6524	%	85	80
Light Penetration (Min)	ASTM D6567	%		1.0
Ground Cover (Max)	ASTM D6567	%		99
UV Stability at 2000 hours	ASTM D4355	%		80
Endurance				
Functional Longevity ¹	Observed	Months	> 36	
Performance Properties				
C-Factor ² / % Effectiveness ²	Large Scale ³	n/a / %	< 0.01 / >99	
Manning's n Range	Observed ⁴	n/a	0.020 — 0.040	
Permissible Veg. Velocity	Observed ⁴	ft/s (m/s)	12.0 (3.6)	
Permissible Veg. Shear	Observed ⁴	lb/ft ² (N/m ²)	6.0 (290)	
Permissible Unveg. Velocity	Observed ⁴	ft/s (m/s)	6.0 (1.8)	
Permissible Unveg. Shear	Observed ⁴	lb/ft ² (N/m ²)	1.5 (70)	
Vegetation Establishment	ASTM D7322	%	800	

1. Functional longevity is an estimate of product functionality and is dependent upon moisture, light, microbial and other environmental conditions. 2. Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface. % Effectiveness = One minus Cover Factor multiplied by 100%. 3. Large scale testing conducted at Utah Water Research facility using rainfall simulator on 2.5H:1V slope, sandy-loam soil, at a rate of 5" per hour for a duration of 60 minutes. 4. With over 30 years of installations and observations, we have confirmed that these values are conservative even though we have not officially tested the product at Large scale labs.

Physical Properties	Units	Typical Value
Dimensions [width x length]	ft (m)	8.0 x 225 (2.4 x 68.5)
Roll Area	yd ² (m ²)	200 (167.2)
Estimated Roll Diameter	ft (m)	2.0 (0.6)
Estimated Roll Weight	lb (kg)	65 (29.5)
Color	n/a	Black

Packaging Data

Profile Products

750 Lake Cook Road, Ste. 440
 Buffalo Grove, IL 60089
 800-508-8681 or +1-847-215-1144

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