



Enkamat 7003

Turf Reinforcement Mat

Description

Enkamat® 7003 is a lightweight three-dimensional turf reinforcement mat (TRM) made of continuous monofilaments fused at their intersections. Ninety-five (95%) percent of the Enkamat is open and available for soil, mulch and root interaction, creating one of the most effective turf reinforcement mats available. Enkamat 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 vegetated channels and banks with expected shear stresses ≤ 6 psf.
- Permanent erosion control for slight to moderate slopes ($\leq 2H:1V$).
- Support and enhance performance of ecosystem plants.
- Substrate for hydraulically applied Flexible Growth Medium™ (FGM) and Bonded Fiber Matrix (BFM) to create the GreenArmor™ System.

Technical Data

Mechanical Properties	Test Method	Units	Roll Value	
			Typical	MARV
Tensile Strength	ASTM D6818	kN/m (lbs/ft)	2.2 (150)	1.8 (125)
Thickness	ASTM D6525	mm (in)	7.5 (0.3)	6.3 (0.25)
Mass/Unit Area	ASTM D6566	g/m ² (oz/yd ²)	170 (5.0)	150 (4.5)
UV Stability	ASTM D4355	%	80 @ 2000 hours	
Resiliency	ASTM D6524	%	80	

Performance Properties	Test Method	Units	Typical Roll Value
Permissible Velocity			
30 minute, unvegetated	Flume test	m/s (ft/s)	n/a
60 minute, vegetated	Flume test ¹	m/s (ft/s)	3.7 (12)
50 hour, vegetated	Flume test ¹	m/s (ft/s)	3.0 (10)
Permissible Shear Stress			
30 minute, unvegetated	Flume test	kN/m ² (lbs/ft ²)	n/a
60 minute, vegetated	Flume test ¹	kN/m ² (lbs/ft ²)	0.29 (6.0)
50 hour, vegetated	Flume test ¹	kN/m ² (lbs/ft ²)	0.24 (5.0)
Manning's n Range ²	Flume test ¹	()	0.020 — 0.040

1. Flume test performed at independent large scale laboratory — data and details available upon request. 2. Depending on vegetation type and height, use engineering field experience and examine a range of Manning's n values during design.

Packaging Data

Physical Properties	Units	Nominal Value
Dimensions [width x length]	m (ft)	2.4 x 68.5 (8.0 x 225)
Roll Area	m ² (yd ²)	167.2 (200)
Estimated Roll Diameter	cm (in)	0.6 (24)
Estimated Roll Weight	kg (lb)	29.5 (65)
Color	Observed	Black

Enkamat is a registered trademark of Colbond, Inc. and is manufactured exclusively for distribution by Profile Products in North America.

To the best of our knowledge, the information contained herein is accurate. However, Profile Products cannot assume any liability whatsoever for the accuracy or completeness thereof. Final determination of the suitability of any information or material for the use contemplated, of its manner of use and whether the suggested use infringes any patents is the sole responsibility of the user.

Profile Products 2008©