

# Enkamat II

## Composite Turf Reinforcement Mat

### Description

Enkamat II provides immediate erosion protection to prevent soil loss and creates the optimum micro-environment to enhance seed germination and plant emergence. The inclusion of the specially formulated Enkamat component, with its 95% open structure, adds the best permanent protection available. The biodegradable component of Enkamat II is designed to create the right environment to enhance seed germination by insulating the seed bed, while absorbing and retaining optimal moisture.

### Recommended Applications

- Permanent erosion control for green (vegetated) channels with expected shear stresses  $\leq 8$  psf
- Temporary erosion protection prior to vegetation establishment
- Permanent erosion control for slight to moderate slopes ( $\leq 1H:1V$ )
- Support and enhance performance of ecosystem plants
- Meets the requirements of the Federal Highway standard specification FP-03 for Class 5 Types A & B, Permanent Turf Reinforcement Mats

### Technical Data

#### Physical Properties

Property	Roll Value (MD)	Test Method
Tensile Strength	150 lbs/ft	ASTM D 5035 (modified)
Thickness	0.4 in	ASTM D 5199
Mass Unit/Area	15.0 oz/yd <sup>2</sup>	ASTM D 5261
UV Stability	80% (strength retained)	ASTM D G53/D4355 ASTM D 5035 (modified)
Resiliency	80% (thickness retained)	ASTM D 6524
Sediment Trapping Capacity	376 in <sup>3</sup> / yd <sup>2</sup>	Calculated

#### Performance Properties

Property	Roll Value		Test Method
	Unvegetated	Vegetated*	
Permissible Velocity — 30 min	13.0 ft/s	19.0 ft/s	Large Scale Flume Test <sup>1</sup>
Permissible Velocity — 50 hr	7.0 ft/s	14.0 ft/s	Large Scale Flume Test <sup>1</sup>
Permissible Shear — 30 min	3.1 lbs/ft <sup>2</sup>	10.0 lbs/ft <sup>2</sup>	Large Scale Flume Test <sup>1</sup>
Permissible Shear — 50 hr	2.2 lbs/ft <sup>2</sup>	8.0 lbs/ft <sup>2</sup>	Large Scale Flume Test <sup>1</sup>

\*Vegetated data extrapolated from actual test data with historically predictable results.

<sup>1</sup> Flume test performed at independent laboratory — data and details available upon request.

#### Index Properties

Property	Roll Value (MD)	Test Method
“Benchscale” Shear (unvegetated)	>5 lbs/ft <sup>2</sup>	ECTC TM #3
Water Absorption	400%	ECTC Modified

#### Packaging

Enkamat II Roll Size	6.33' width x 71' length = 50 yd <sup>2</sup> /roll
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