

# Enkamat S (7520)

R<sup>2</sup>M / Root Reinforcement Mat

## Description

Enkamat<sup>®</sup> S is a high-performance geosynthetic composite that incorporates a high tenacity polyester geogrid within the entangled filaments of the three-dimensional turf reinforcement mat (TRM). The combination of a high-strength tensile member and a high performance TRM provides unique properties for new and unique applications, with or without vegetation, in channels, steep slopes and as a grip layer under vegetated veneers.

## Recommended Applications

- Permanent erosion control for Green (vegetated) channels with expected shear stresses  $\leq 11$  psf.
- Permanent erosion control and surficial stability for steep slopes ( $\leq 0.5H:1V$ ).
- Support and enhance performance of ecosystem plants.
- Channel lining or slope protection for erosion control applications where high water flow and high shear stresses are expected.

## Technical Data

Mechanical Properties	Test Method	Units	Typical Roll Value	
			MD	CD
Tensile Strength	ASTM D 4595 (modified)	kN/m (lbs/ft)	45 (3100)	29 (2000)
Thickness	ASTM D 5199	mm (in)	20 (0.8)	
Mass/Unit Area (TRM only)	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	544 (16)	
Mass/Unit Area (TRM+Grid)	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	850 (25)	
UV Stability	ASTM D G53 / ASTM D 5035 (modified)	% strength retained	80	

Performance Properties	Test Method	Units	Typical Roll Value
<b>Permissible Velocity</b>			
Product Only	Flume test <sup>1</sup>	m/s (ft/s)	6.1 (20)
30 minute, vegetated	Flume test <sup>1</sup>	m/s (ft/s)	5.8 (19)
50 hour, vegetated	Flume test <sup>1</sup>	m/s (ft/s)	4.2 (14)
<b>Permissible Shear Stress</b>			
Product Only	Flume test <sup>1</sup>	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.57 (12)
30 minute, vegetated	Flume test <sup>1</sup>	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.48 (10)
50 hour, vegetated	Flume test <sup>1</sup>	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.38 (8)

1. Flume test performed at independent laboratory—data and details available upon request.

## Packaging Data

Physical Properties	Units	Nominal Value
Roll Dimensions [width x length]	m (ft)	1.02 x 45.7 (3.36 x 150)
Roll Area	m <sup>2</sup> (yd <sup>2</sup> )	46.8 (56)
Estimated Roll Diameter	cm (in)	N/A
Estimated Roll Weight	kg (lb)	42.7 (94)

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