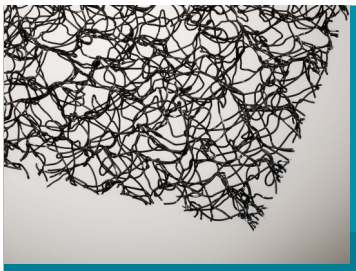
Enka®solutions



Enkamat® 7020

Bonar Civil Products — TRM

Description

Enkamat® 7020 is a 3-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 the most effective root reinforcement mat (R2M) available. Enkamat is manufactured from nylon to eliminate the buoyancy factor associated with submerged conditions and provides permanent TRM protection in vegetated channels, as well as on slopes.

Recommended Applications

- Permanent erosion control for vegetated channels with expected shear stresses ≤ 17 psf.
- Permanent erosion control for moderate to steep slopes (≤0.5H:1V).
- Support and enhance performance of ecosystem plants.
- Excellent substrate for hydraulically applied mulches for application where calculated hydraulic Forces exceed the threshold of the mulch itself and/or unreinforced vegetation.
- Meets requirements of FHWA FP-03 Type 5C TRM

Technical Data

Mechanical Properties	**Test Method**	**Units**	**MARV Roll Value**
Tensile Strength	ASTM D 6818	kN/m (lbs/ft)	2.6 (175)
Thickness	ASTM D 6525	mm (in)	15.2 (0.6)
Mass/Unit Area	ASTM D 6566	g/m² (oz/yd²)	373 (11.0)
Resiliency	ASTM D 6524	%	>80
UV Stability	ASTM D 4355	% strength retained	80 @ 2000 hr
Performance Properties	**Test Method**	**Units**	**Typical Roll Value**
Permissible Velocity			
60 minute, vegetated	Flume test[1]	m/s (ft/s)	5.8 (19)
50 hour, vegetated	Flume test[1]	m/s (ft/s)	4.2 (14)
Permissible Shear Stress			
60 minute, vegetated	Flume test[1]	kN/m² (lbs/ft²)	0.81 (17.0)
50 hour, vegetated	Flume test[1]	kN/m² (lbs/ft²)	0.38 (8.0)
Manning's "n" Range[2]	Flume test[1]		0.025—0.045

1. Flume test performed at independent 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

Property	**Units**	**Nominal Value**
Roll Dimensions *[width x length]*	m (ft)	2.4 X 34.3 (8.0 X 112.5)
Roll Area	m² (yd²)	83.6 (100)
Estimated Roll Diameter	m (in)	0.6 (24)
Estimated Roll Weight	kg (lb)	36 (80)
Color		Black

Bonar partners in performance

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