



# Futerra 7020

## Turf Reinforcement Mat



### Description

Futerra® 7020 is a three-dimensional turf reinforcement mat (TRM) made of continuous monofilaments fused at their intersections. Ninety-five (95%) percent of Futerra 7020 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 vegetated channels and banks with expected shear stresses  $\leq 17$  psf.
- Permanent erosion control for moderate to steep slopes ( $\leq 0.5H:1V$ ).
- Support and enhance performance of ecosystem plants.
- Substrate for hydraulically applied Flexible Growth Medium™ (FGM) and Engineered Fiber Matrix™ (EFM) to create the GreenArmor™ System.

### Technical Data

Mechanical Properties	Test Method	Units	Roll Value	
			Typical	MARV
Tensile Strength	ASTM D6818	kN/m (lbs/ft)	3.5 (240)	2.6 (175)
Thickness	ASTM D6525	mm (in)	19 (0.75)	15.2 (0.6)
Mass/Unit Area	ASTM D6566	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	407 (12.0)	373 (11.0)
UV Stability	ASTM D4355	%	80 @ 2000 hours	
Resiliency	ASTM D6524	%	80	

Performance Properties	Test Method	Units	Typical Roll Value
<b>Permissible Velocity</b>			
Unvegetated	Flume test <sup>1,2</sup>	m/s (ft/s)	4.9 (16.0)
Vegetated	Flume test <sup>1,2</sup>	m/s (ft/s)	6.1 (20.0)
<b>Permissible Shear Stress</b>			
Unvegetated	Flume test <sup>1,2</sup>	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.28 (5.8)
Vegetated	Flume test <sup>1,2</sup>	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.81 (17.0)
Manning's n Range <sup>3</sup>	Flume test <sup>1</sup>	n/a	0.025 — 0.045

1. Flume test performed at independent large scale laboratory — data and details available upon request. 2. Testing performed on GreenArmor™ System. 3. 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 34.3 (8.0 x 112.5)
Roll Area	m <sup>2</sup> (yd <sup>2</sup> )	83.6 (100)
Estimated Roll Diameter	cm (in)	0.6 (24)
Estimated Roll Weight	kg (lb)	34 (75)
Color	Observed	Black

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