

Specification Sheet - VMax® SC250® Turf Reinforcement Mat

DESCRIPTION

The composite turf reinforcement mat (C-TRM) shall be a machine-produced mat of 70% straw and 30% coconut fiber matrix incorporated into permanent three-dimensional turf reinforcement matting. The matrix shall be evenly distributed across the entire width of the matting and stitch bonded between a heavy duty UV stabilized nettings with 0.50 x 0.50 inch (1.27 x 1.27 cm) openings, an ultra heavy UV stabilized, dramatically corrugated (crimped) intermediate netting with 0.5 x 0.5 inch (1.27 x 1.27 cm) openings, and covered by an heavy duty UV stabilized nettings with 0.50×0.50 inch $(1.27 \times 1.27 \text{ cm})$ openings. The middle corrugated netting shall form prominent closely spaced ridges across the entire width of the mat. The three nettings shall be stitched together on 1.50 inch (3.81cm) centers with UV stabilized polypropylene thread to form permanent three-dimensional turf reinforcement matting. All mats shall be manufactured with a colored thread stitched along both outer edges as an overlap guide for adjacent mats.

The SC250 shall meet Type 5A, 5B, and 5C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.18

Material Content			
Matrix	70% Straw Fiber	0.35 lb/sq yd (0.19 kg/sm) 0.15 lbs/sq yd	
	30 % Coconder i ibei	(0.08 kg/sm)	
Netting	Top and Bottom, UV-Stabilized Polypropylene	5 lb/1000 sq ft (2.44 kg/100 sm)	
	Middle, Corrugated UV-Stabilized Polypropylene	24 lb/1000 sf (11.7 kg/100 sm)	
Thread	Polypropylene, UV Stable		

	Standard Roll Siz	es
Width	6.5 ft (2.0 m)	8 ft (2.44m)
Length	55.5 ft (16.9 m)	90 ft (27.4 m)
Weight ± 10%	34 lbs (15.42 kg)	70 lbs (31.8 kg)
Area	40 sq yd (33.4 sm)	80 sq. yd. (66.8 sm)

Test Method	Typical
ASTM D6525	0.62 in. (15.75 mm)
ASTM 6524	95.2%
ASTM D792	0.891 g/cm ³
ASTM 6566	16.13 oz/sy (548 g/sm)
ASTM D4355/ 1000 HR	100%
ECTC Guidelines	99%
ASTM D1388	222.65 oz-in.
ASTM D6567	4.1%
ASTM D6818	709 lbs/ft (10.51 kN/m)
ASTM D6818	23.9%
ASTM D6818	712 lbs/ft (10.56 kN/m)
ASTM D6818	36.9%
ASTM D7322	441%
	ASTM D6525 ASTM 6524 ASTM D792 ASTM 6566 ASTM D4355/ 1000 HR ECTC Guidelines ASTM D1388 ASTM D6567 ASTM D6818 ASTM D6818 ASTM D6818 ASTM D6818

Design Permissible Shear Stress			
	Short Duration	Long Duration	
Phase 1: Unvegetated	3.0 psf (144 Pa)	2.5 psf (120 Pa)	
Phase 2: Partially Veg.	8.0 psf (383 Pa)	8.0 psf (383 Pa)	
Phase 3: Fully Veg.	10.0 psf (480 Pa)	8.0 psf (383 Pa)	
Unvegetated Velocity	9.5 fps (2.9 m/s)		
Vegetated Velocity	15 fps (4.6 m/s)		

Slope Design Data: C Factors				
		Slope Gradien	ts (S)	
Slope Length (L)	≤ 3:1	3:1 - 2.1	≥ 2:1	
≤ 20 ft (6 m)	0.0010	0.0209	0.0507	
20-50 ft	0.0081	0.0266	0.0574	
≥ 50 ft (15.2 m)	0.0455	0.0555	0.081	

Roughness Coefficients – Unveg.		
Flow Depth	Manning's n	
≤ 0.50 ft (0.15 m)	0.040	
0.50 - 2.0 ft	0.040-0.012	
≥ 2.0 ft (0.60 m)	0.011	

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