



MATERIAL SPECIFICATION



SC250

The composite turf reinforcement mat (C-TRM) shall be a machine-produced mat of 70% straw/30% coconut fiber matrix incorporated into a 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 bottom net with 0.50 x 0.50 inch (1.27 x 1.27 cm) openings, an ultra heavy duty UV stabilized, dramatically corrugated (crimped) intermediate netting with 0.50 x 0.50 inch (1.27 x 1.27 cm) openings, and covered by a heavy duty UV stabilized top net with 0.50 x 0.50 inch (1.27 x 1.27 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 (3.81 cm) centers with UV stabilized polypropylene thread to form a permanent three-dimensional turf reinforcement matting.

The SC250 shall meet requirements established by the Erosion Control Technology Council (ECTC) Specification and the U.S. Department of Transportation, Federal Highway Administration's (FHWA) *Standard Specifications For Construction of Roads and Bridges on Federal Highway Projects, FP-03 2003 Section 713.18* as a *Type 5A, B, and C Permanent Turf Reinforcement Mat*.

Installation staple patterns shall be clearly marked on the turf reinforcement mattings with environmentally safe paint. All mats shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The composite turf reinforcement mat shall be the North American Green SC250, or equivalent. The SC250 permanent composite turf reinforcement mat shall have the following physical properties:

Material Content

Matrix	70% Straw Fiber (0.35 lb/yd ²) (0.19 kg/m ²) 30% Coconut Fiber (0.15 lb/yd ²) (0.08 kg/m ²)
Netting	Top and Bottom – Heavy Duty UV Stabilized Polypropylene (5.0 lbs/1,000 ft ² [2.44 kg/100 m ²] approximate weight) Mid – Corrugated Ultra Heavy Duty UV Stabilized Polypropylene (24 lb/1,000 ft ² [11.7 kg/100 m ²] approximate weight)
Thread	UV Stabilized Polypropylene

SC250 is Available with the Following Physical Specifications Per Roll [English Units (Metric Units)]

Width	6.50 ft (2.00 m)
Length	55.50 ft (16.90 m)
Weight ± 10%	34.00 lbs (15.42 kg)
Area	40.00 yd ² (33.40 m ²)

Stitch Spacing for All Rolls = 1.50 inches (3.81 cm)