



MATERIAL SPECIFICATION

C350



The composite turf reinforcement mat (C-TRM) shall be a machine-produced mat of 100% 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 super 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 super heavy duty UV stabilized top net with 0.50 x 0.50 inch (1.27 x 1.27 cm) openings. The 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 C350 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 matting 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 C350, or equivalent. The C350 permanent composite turf reinforcement mat shall have the following physical properties:

Material Content

Matrix	100% Coconut Fiber (0.50 lb/yd ²) (0.27 kg/m ²)
Nettings	Top – Super Heavy Duty UV Stabilized Polypropylene 8.00 lbs/1,000 ft ² (3.91 kg/100 m ²)
	Mid – Corrugated Ultra-Heavy Duty UV Stabilized Polypropylene 24 lb/1,000 ft ² (11.7 kg/100 m ²)
	Bottom – Super Heavy Duty UV Stabilized Polypropylene 8.00 lbs/1,000 ft ² (3.91 kg/100 m ²)
Thread	UV Stabilized Polypropylene

C350 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%	37.00 lbs (16.80 kg)
Area	40.00 yd ² (33.40 m ²)

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