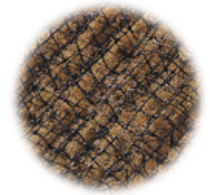




A **tensar** Company

## PERFORMANCE SPECIFICATION

# C350



The composite turf reinforcement mat (C-TRM) shall be a machine-produced mat of 100% coconut fibre matrix incorporated into a permanent three-dimensional turf reinforcement matting.

The matrix shall be stitch bonded between a super heavy duty UV stabilized bottom net with 1.27 x 1.27 cm openings, a ultra duty UV stabilized, dramatically corrugated (crimped) intermediate netting with 1.27 x 1.27 cm openings, and covered by a super heavy duty UV stabilized top net with 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 3.81 cm centers with UV stabilized polypropylene thread to form a permanent three-dimensional turf reinforcement matting.

### Slope Design Data - Unvegetated Cover Factors

Slope Length (L)	Slope Gradient (S)		
	≤ 3:1	3:1-2:1	≥ 2:1
≤ 6 m	<b>0.0005</b>	<b>0.015</b>	<b>0.043</b>
6m to 15.2m	<b>0.018</b>	<b>0.031</b>	<b>0.050</b>
≥ 15.2 m	<b>0.035</b>	<b>0.047</b>	<b>0.057</b>

### Channel Design Data

Roughness Coefficients - Unvegetated	
Flow Depth	Manning's 'n'
≤ 0.15 m	<b>0.041</b>
0.15-0.60m	<b>0.040-0.013</b>
≥ 0.60 m	<b>0.012</b>

<b>Approximate Maximum Flow Velocity</b>
Unvegetated = 3.20 m/s
Vegetated = 6.0 m/s

Maximum Permissible Shear Stress*		
	Short Duration	Long Duration
Phase 1 UNVEGETATED	<b>153 Pascal</b>	<b>144 Pascal</b>
Phase 2 PARTIALLY VEGETATED	<b>480 Pascal</b>	<b>480 Pascal</b>
Phase 3 FULLY VEGETATED	<b>576 Pascal</b>	<b>480 Pascal</b>

Values are approximate, precise values obtained from ECMDSTM

\*Performance values obtained through third party testing at the Texas Transportation Institute, Colorado State University, and Utah State University based on soil loss failure criteria not exceeding 1.27 cm