

Material and Performance Specification Sheet

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A *terisar*, Company

C125 Erosion Control Blanket

The long-term double net erosion control blanket shall be a machine-produced mat of 100% coconut fiber with a functional longevity of up to 36 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a heavyweight polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 (1.59 x 1.59 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread.

The C125 shall meet requirements established by the Erosion Control Technology Council (ECTC) Specification and the US Department of Transportation, Federal Highway Administration's (FHWA) Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 Section 713.17 as a type 4 Long-term Erosion Control Blanket.

The C125 is also available with the DOT System™, which consists of installation staple patterns clearly marked on the erosion control blanket with environmentally safe paint. The blanket 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.

1999	Material Content	
Matrix	100% Coconut Fiber	0.5 lbs/yd ² (0.27 kg/m ²)
Nettings	Both sides – Heavyweight UV stabilized	3.0 lb/1000 ft ² (1.47 kg/100 m ²)
Thread	100% Black Polypropylene	

C125 is available in the following standard roll sizes:

Width

6.67 ft (2.03 m)

16 ft (4.87 m)

Length

108 ft (32.92 m)

108 ft (32.92 m) 105.6 lbs (47.9 kg)

Weight ± 10% Area 44 lbs (19.95 kg) 80.0 yd² (66.9 m²)

192 yd2 (165.5 m2)

Index Value Properties:

Property	Test Method	Typical
Thickness	ASTM D6525	0.31 in (7.87 mm)
Resiliency	ECTC Guidelines	82%
Water Absorbency	ASTM D1117	220%
Mass/Unit Area	ASTM 6475	8.00 oz/yd ² (271 g/m ²)
Swell	ECTC Guidelines	13%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	0.75 oz-in
Light Penetration	ECTC Guidelines	6.6%
Tensile Strength –MD	ASTM D6818	294 lbs/ft (4.36 kN/m)
Elongation – MD	ASTM D6818	21.3%
Tensile Strength - TD	ASTM D6818	205.2 lbs/ft (3.04 kN/m)
Elongation – TD	ASTM D6818	28.4%

Bench Scale Testing* (NTPEP):	
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Test Method	Parameters	Results
ECTC Method 2	50 mm (2 in)/hr for 30 min	SLR** = 14.93
Rainfall	100mm (4 in)/hr for 30 min	SLR** = 14.97
	150 mm (6 in)/hr for 30 min	SLR** = 15.00
ECTC Method 3	Shear at 0.50 inch soil loss	2.68 lbs/ft ²
Shear Resistance		
ECTC Method 4	Top Soil, Fescue, 21 day	477% improvement of
Germination	incubation	biomass
* Bench Scale tests sh	ould not be used for design purposes	
** Soil Loss Ratio = Soil	loss with Bare Soil/Soil Loss with RECP (so	oil loss is based on regression analysis

Performance Design Values:

Maximum Permissi	ble Shear Stress
Unvegetated Shear Stress	2.25 lbs/ft ² (108 Pa)
Unvegetated Velocity	10.00 ft/s (3.05 m/s)

Slope	Design Dat	a: C Factors	
	S	lope Gradients	(S)
Slope Length (L)	≤ 3:1	3:1 – 2:1	≥ 2:1
≤ 20 ft (6 m)	0.001	0.029	0.082
20-50 ft	0.036	0.060	0.096
≥ 50 ft (15.2 m)	0.070	0.090	0.110

Roughne	ess Coefficients- Unveg.	
Flow Depth	Manning's n	
≤ 0.50 ft (0.15 m)	0.022	
0.50 - 2.0 ft	0.022 - 0.014	
≥ 2.0 ft (0.60 m)	0.014	

Product Participant of:



Updated 3/09