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Material and Performance Specification
C125 Erosion Control Blanket

Description

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 photodegradable polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 in (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 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.

The C125 shall meet Type 4 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) *FP-03 Section 713.17*

Index 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	205.2lbs/ft (3.04 kN/m)
Elongation – TD	ASTM D6818	28.4%

Material Content		
Matrix	100% Coconut Fiber	0.5 lbs/yd^2 (0.27 kg/m^2)
Netting	Heavyweight Photodegradable with UV additives	3.0 lb/1000 ft^2 (1.47 kg/100 m^2)
Thread	Black polypropylene	

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

Standard Roll Sizes			
Width	6.67 ft (2.03 m)	8.0 ft (2.4 m)	16.0 ft (4.87 m)
Length	108 ft (32.92 m)	112 ft (34.14 m)	108 ft (32.92 m)
Weight ± 10%	44 lbs (19.95 kg)	55 lbs (24.95 kg)	105.6 lbs (47.9 kg)
Area	80 yd^2 (66.9 m^2)	100 yd^2 (83.61 m^2)	192 yd^2 (165.5 m^2)

Slope Design Data: C Factors			
	Slope 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

Roughness 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

Bench Scale Testing (NTPEP)		
Test Method	**Parameters**	**Results**
ECTC 2 Rainfall	50 mm (2 in)/hr-30 min 100mm (4 in)/hr-30 min 150 mm (6 in)/hr-30 min	SLR** = 14.93 SLR** = 14.97 SLR** = 15.00
ECTC 3 Shear Res.	Shear at 0.50 inch soil loss	2.68 lbs/ft^2
ECTC 4 Germination	Top Soil, Fescue, 21 day incubation	477% improvement of biomass

* Bench Scale tests should not be used for design purposes
** Soil Loss Ratio = Soil Loss Bare Soil/Soil Loss with RECP

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Tensar International Corporation warrants that at the time of delivery the product furnished hereunder shall conform to the specification stated herein. Any other warranty including merchantability and fitness for a particular purpose, are hereby executed. If the product does not meet specifications on this page and Tensar is notified prior to installation, Tensar will replace the product at no cost to the customer. **This product specification supersedes all prior specifications for the product described above is and is not applicable to any products shipped prior to January 1, 2011.**