



PERFORMANCE SPECIFICATION



C125

The North American Green C125 semi-permanent erosion control blanket is constructed with a 100% coconut fiber matrix and has a functional longevity of approximately 36 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographic location, and elevation). The coconut fiber shall be evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom with heavyweight polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.625 x 0.625 inch (1.59 x 1.59 cm) mesh size. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with UV stable polypropylene thread. The following list contains further physical properties of the C125 erosion control blanket.

<u>Property</u>	<u>Test Method</u>	<u>Typical</u>
Thickness	ASTM D5199/ECTC	0.35 in (8.91 mm)
Resiliency	ECTC Guidelines	82 %
Mass per Unit Area	ASTM D6475	8.00 oz/ yd ² (271 g/m ²)
Water Absorption	ASTM D1117/ECTC	110 %
Swell	ECTC Guidelines	13 %
Stiffness/Flexibility	ASTM D1388/ECTC	0.75 oz-in (8,368 mg-cm)
Light Penetration	ECTC Guidelines	16.70 %
Smolder Resistance	ECTC Guidelines	Yes**
MD Tensile Strength	ASTM D5035	213.60 lbs/ft (3.12 kN/m)
MD Elongation	ASTM D5035	13.60%
TD Tensile Strength	ASTM D5035	208.80 lbs/ft (3.05 kN/m)
TD Elongation	ASTM D5035	25.50%

**Material is smolder resistant according to specified test.

MD - Machine direction

TD - Transverse direction

Slope Design Data

Channel Design Data

Bench Scale Testing†

Cover Factors (C)				Channel Roughness Coefficients	
Slope Length (L)	Slope Gradient (S)			Flow Depth	Manning's 'n'
	≤ 3:1	3:1 - 2:1	≥ 2:1		
≤ 20 ft (6 m)	0.001	0.029	0.082	≤ 0.50 ft (0.15 m)	0.022
20 - 50	0.036	0.060	0.096	0.50-2.00 ft	0.022-0.014
≥ 50 ft (15.2 m)	0.070	0.090	0.110	≥ 2.00 ft (0.60 m)	0.014
				Max. Permissible Shear Stress 2.25 lbs/ft ² (108 Pa)	

Unvegetated Channel	3.0 lbs/ft ²
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Approximate Max Flow Velocity	10.00 ft/s (3.05 m/s)
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For most accurate design data consult ECMDSTM
Manning's 'n' expressed in English units for unvegetated blanket

†Bench Scale Performance Testing

Bench scale tests are index property tests. These tests are not indicative of field performance and therefore should not be used in design to establish performance levels for rolled erosion control products. Bench scale tests are performed according to methods developed by the Erosion Control Technology Council (ECTC).