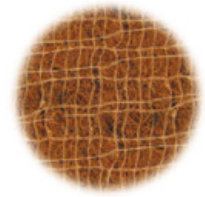




A **tensar** Company

## PERFORMANCE SPECIFICATION



# C125BN

The North American Green C125BN erosion control blanket is constructed of 100% biodegradable materials containing a 100% coconut fibre matrix and has a functional longevity of approximately 24 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 100% biodegradable natural organic fiber netting woven into an approximate 1.27 x 2.54 cm mesh. The blanket shall be sewn together with biodegradable thread on 3.81 cm centers. The following list contains further physical properties of the C125BN erosion control blanket.

<u>Property</u>	<u>Test Method</u>	<u>Typical</u>
Thickness	ASTM D5199/ECTC	6.60 mm
Resiliency	ECTC Guidelines	85 %
Mass per Unit Area	ASTM D6475	300 g/m <sup>2</sup>
Water Absorption	ASTM D1117/ECTC	155 %
Swell	ECTC Guidelines	40 %
Stiffness/Flexibility	ASTM D1388/ECTC	1,218 mg-cm
Light Penetration	ECTC Guidelines	16.40 %
Smolder Resistance	ECTC Guidelines	Yes**
MD Tensile Strength	ASTM D5035	4.98 kN/m
MD Elongation	ASTM D5035	7.60 %
TD Tensile Strength	ASTM D5035	3.08 kN/m
TD Elongation	ASTM D5035	11.10 %

\*\*Material is smolder resistant according to specified test  
 MD - Machine Direction  
 TD - Transverse Direction

### Slope Design Data

### Channel Design Data

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		
6 m	0.00009	0.018	0.050	0.15 m	0.022
6m to 15m	0.003	0.040	0.060	0.15-0.60m	0.022-0.014
15.2 m	0.007	0.070	0.070	0.60 m	0.014
				Max. Permissible Shear Stress 112.0 Pascal	

**Bench Scale Shear Test\***  
 Unvegetated = 153 Pascal

**Approximate Max Flow Velocity**  
 3.05 m/s

For most accurate design data consult ECMDST<sup>™</sup>  
 Manning's 'n' expressed in English units for unvegetated blankets

### \*Bench Scale 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).