SPECIFICATION SHEET

DOUBLE NET STRAW COCONUT BIODEGRADABLE EROSION CONTROL BLANKET

SC70/30BD (DNSC BIO) Double Net Straw Coconut Biodegradable Blanket is a temporary rolled erosion control product (RECP) with a functional longevity of approximately 12 months, but will vary depending on soil and climatic conditions. The information below summarizes the product's typical physical properties at the time of manufacturing. Manufactured using 70% agricultural grade wheat straw and 30% biodegradable coir fiber that is bound and sewn between 2 layers of natural organic netting.

Size (WxL):	8' x 112.5'	16' x 112.5'	8' x 562.5'	16' x 562.5'
Two Nets: Top & Bottom	Natural organic net with 0.5" x 1.0" net openings. Other net types, such as polypropylene and rapidly degrading, are available upon request.			
Stitch Spacing:	Degradable stitching is spaced 1.5 inches apart.			
Matrix:	Evenly distributed with 70% agricultural cured weed-free straw and 30% coir fiber placed at a rate of 0.5 lbs/yd² between two nets and stitched together.			
Packaging:	All rolls are wrapped tightly with stretch wrap to protect the RECP from the weather and elements.			

TEST METHOD - DESCRIPTION	PARAMETERS	TEST RESULTS
ASTM D6475 - Mass per Unit Area	Index Test	8.45 oz/sq.yd.
ASTM D6818 - Ultimate Tensile Strength / Strain (MD & TD)	Index Test	15.8 lb/in 10.8 lb/in
ASTM D6525 - Thickness	Index Test	251 mils
ASTM D6567 - Ground Cover / Light Penetration	Index Test	88.5 % / 11.5 %
ASTM D1117 & ECTC-TASC 00197 - Water Absorption	Index Test	476 %
ASTM D7101 - Determination of Un-vegetated RECP Ability to Protect Soil from Rain Splash and Associated Runoff under Bench-Scale Conditions	50 mm (2 in.) / hr for 30 min. 100 mm (4 in.) / hr for 30 min. 150 mm (6 in.) / hr for 30 min.	Soil Loss Ratio$_{a,b}$ = 38.42 Soil Loss Ratio$_{a,b}$ = 22.33 Soil Loss Ratio$_{a,b}$ = 9.71
ASTM D7207 - Determination of Un-vegetated RECP Ability to Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale	Shear: 1.14 psf for 30 min. Shear: 2.05 psf for 30 min. Shear: 2.73 psf for 30 min. Soil loss curve intercept =	Soil Loss$_b$ = 68.3 g Soil Loss$_b$ = 328.3 g Soil Loss$_b$ = 688.3 g 2.32 psf @ 1/2-in soil loss
ASTM D7322 - Determination of Temporary Degradable RECP Performance in Encouraging Seed Germination and Plant Growth	Top soil; Fescue (Kentucky 31) 21 day incubation; 27±2° & approximately 45±5% RH	542 % (germination improvement)

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