EARTH SAVER
GEOSYNTHETICS & EROSION CONTROL PRODUCTS

ES-2CNN

ES-2CNN - a Double Net Coconut Blanket, is a temporary Erosion Control Blanket composed of a 100% coconut fiber matrix mechanically stitch-bonded with a cotton thread to two (2) jute leno weave nets which are located at the top and bottom of the blanket. ES-2CNN is recommended for applications requiring erosion protection for a period of up to 36 months. The material is fully degradable. The net, thread and fiber matrix are biodegradable. Actual field longevity is dependent on soil and climatic conditions. ES-2CNN is made in the US.

Index Property	Test Method	Value	
Mass Per Unit Area	ASTM D6475	9 oz/sy	305 g/m^2
Thickness	ASTM D6525	280 mils	7 mm
Tensile Strength MD	ASTM D6818	210 lbs/ft	3.1 kN/m
Tensile Strength TD	ASTM D6818	190 lbs/ft	2.8 kN/m
Bench Scale Tests			
Soil Loss Ratio[1]	ASTM D7101	18.46	
Permanent Shear Stress[1]	ASTM D7207	2.81 psf	
Light Penetration[1]	ASTM D6567	15.0%	
Biomass Improvement[1]	ASTM D7322	PASS>100%	
Design Parameters			
Unvegetated RUSLE C-Factor[1,2]	ASTM D6459	0.020	
Maximum Slope Gradiant		1H:1V	
Unvegetated permissable shear strength[1,2]	ASTM D6460	2.5 psf	
Unvegetated permissable velocity[1,2]	ASTM D6460	9.0 ft/sec	
Manning's Roughness "n" (HEC-15)			
τ_{lower}	τ_{mid}	τ_{upper}	
0.029	0.025	0.023	

Physical Description				
Netting- top net	0.79" x 1.18" jute leno net, 100% biodegradable			
-bottom net	0.79" x 1.18" jute leno net, 100% biodegradable			
Thread	12/2 cotton, tan			
Matrix	Coconut fibers			
Packaging Details				
Roll Width	8 ft	2.4 m	16 ft	4.9 m
Roll Length	112.5 ft	34.3 m	562.5 ft	171.5 m
Roll Area	100 yd^2	83.6 m^2	1000 yd^2	840 m^2
Roll Weight	60 lbs	28 kg	600 lbs	280 kg
Packaging specifics	All rolls are wrapped tightly with stretch wrap to protect the erosion control product from weather and elements			
Classification				
FHWA	Type 4			
ECTC	Type 4.B			
AASHTO	Type 1C2			
Functional Longevity	36 months			

1- Values developed by TRI/Environmental Inc. using Bench Scale and Large Scale testing for AASHTO's National Transportation Product Evaluation Program

2-Generalized for typical applications, based on hydraulic performance with ASTM D6459 and D6460 tests.

IECA International Erosion Control Association
Protecting Soil and Water Resources

EROSION CONTROL TECHNOLOGY COUNCIL
ECTC - EST 1992

PRODUCT EVALUATION & AUDIT DATAMINE TESTED

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Direct Phone: 912-534-6071 Toll Free: 800-948-7870
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