EARTH SAVER
GEOSYNTHETICS & EROSION CONTROL PRODUCTS

ES-2SC

ES-2SC - a Double Net Straw/Coconut Blanket, is a temporary Erosion Control Blanket composed of a 70% weed free agricultural straw/30% coconut (coir) fiber matrix mechanically stitch bonded with a photodegradable polypropylene thread (white) to a two (2) polypropylene photodegradable nets which are located at the top and bottom of the blanket. ES-2SC is recommended for applications requiring erosion protection for a period of up to 24 months. The material is fully degradable. The net and thread are photodegradable, and the fiber matrix is biodegradable. Actual field longevity is dependent on soil and climatic conditions. ES-2SC is made in the US.

Index Property	Test Method	Value	
Mass Per Unit Area	ASTM D6475	7 oz/sy	237 g/m^2
Thickness	ASTM D6525	300 mils	8 mm
Tensile Strength MD	ASTM D6818	150 lbs/ft	2.2 kN/m
Tensile Strength TD	ASTM D6818	130 lbs/ft	1.9 kN/m
Bench Scale Tests			
Soil Loss Ratio[1]	ASTM D7101	n/a	
Permanent Shear Stress[1]	ASTM D7207	n/a psf	
Light Penetration[1]	ASTM D6567	12.0%	
Biomass Improvement[1]	ASTM D7322	PASS>100%	
Design Parameters			
Unvegetated RUSLE C-Factor[1,2]	ASTM D6459	0.030	
Maximum Slope Gradiant		2H:1V	
Unvegetated permissable shear strength[1,2]	ASTM D6460	2.0 psf	
Unvegetated permissable velocity[1,2]	ASTM D6460	8.0 ft/sec	
Manning's Roughness "n" (HEC-15)			
τ_{lower}	τ_{mid}	τ_{upper}	
0.045	0.036	0.031	

Physical Description				
Netting- top net	medium weight, synthetic, regular degradable			
-bottom net	light weight, synthetic, regular degradable			
Thread	synthetic, regular degradable			
Matrix	Straw/coconut blend			
Packaging Details				
Roll Width	8 ft	2.4 m	16 ft	4.9 m
Roll Length	112 ft	34.1 m	563 ft	171 m
Roll Area	100 yd^2	83.6 m^2	1000 yd^2	836 m^2
Roll Weight	53 lbs	24 kg	530 lbs	241 kg
Packaging specifics	All rolls are wrapped tightly with stretch wrap to protect the erosion control product from weather and elements			
Classification				
FHWA	Type 3.D			
ECTC	Type 3.D			
AASHTO	Type 2B2			
Functional Longevity	24 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.