EARTH SAVER
GEOSYNTHETICS & EROSION CONTROL PRODUCTS

ES-1X

ES-1X - a Single Net Excelsior Blanket, is a temporary Erosion Control Blanket composed of 100% Excelsior matrix mechanically stitch-bonded with a photodegradable polypropylene thread (white) to a single polypropylene photodegradable net which is located at the top of the blanket. ES-1X is recommended for applications requiring erosion protection for a period of up to 12 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-1X is made in the USA.

Index Property	Test Method	Value	
Mass Per Unit Area	ASTM D6475	10 oz/sy	338 g/m^2
Thickness	ASTM D6525	274 mils	6.9 mm
Tensile Strength MD	ASTM D6818	94 lbs/ft	1.4 kN/m
Tensile Strength TD	ASTM D6818	25 lbs/ft	0.37 kN/m
Bench Scale Tests			
Soil Loss Ratio[1]	ASTM D7101	4.79	
Permanent Shear Stress[1]	ASTM D7207	2.32 psf	
Light Penetration[1]	ASTM D6567	30%	
Biomass Improvement[1]	ASTM D7322	PASS>100%	
Design Parameters			
Unvegetated RUSLE C-Factor[1,2]	ASTM D6459	0.018	
Maximum Slope Gradiant		2H:1V	
Unvegetated permissable shear strength[1,2]	ASTM D6460	1.75 psf	
Unvegetated permissable velocity[1,2]	ASTM D6460	7.0 ft/sec	
Manning's Roughness "n" (HEC-15)			
τ_{lower}	τ_{mid}	τ_{upper}	
0.04	0.03	0.03	

Physical Description				
Netting- top net	1" x 2" photodegradable PP			
Thread	Synthetic regular degradable			
Matrix	100% excelsior			
Packaging Details				
Roll Width	8 ft	2.4 m	16 ft	4.9 m
Roll Length	112.5 ft	34.3 m	112.5 ft	68.6 m
Roll Area	100 yd^2	83.6 m^2	200 yd^2	167 m^2
Roll Weight	73 lbs	40 kg	146 lbs	80 kg
Packaging specifics	All rolls are wrapped tightly with stretch wrap to protect the erosion control product from weather and elements			
Classification				
FHWA	Type 2.C			
ECTC	Type 2.C			
AASHTO	Type 2A1			
Functional Longevity	12-24 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.

Local Knowledge
Local Experience
Local Service, Nationwide®

Core & Main Geosynthetics
Direct Phone: 912-534-6071 Toll Free: 800-948-7870
coreandmain.com/geosynthetics