EARTH™ SAVER
GEOSYNTHETICS & EROSION CONTROL PRODUCTS

ES-2X

ES-2X – a Double Net Excelsior Blanket, is a temporary Erosion Control Blanket is composed of 100% Excelsior matrix mechanically stitch bonded with a photodegradable polypropylene thread (white) to two (2) polypropylene photodegradable nets which are located at the top and bottom of the blanket. ES-2X is recommended for applications requiring erosion protection for a period of 12-24 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-2X is made in the USA.

Index Property	Test Method	Value	
Mass Per Unit Area	ASTM D6475	10.5 oz/sy	358 g/m^2
Thickness	ASTM D6525	327 mils	8.1 mm
Tensile Strength MD	ASTM D6818	149 lbs/ft	2.2 kN/m
Tensile Strength TD	ASTM D6818	39.6 lbs/ft	0.58 kN/m
Bench Scale Tests			
Soil Loss Ratio[1]	ASTM D7101	8.45	
Permanent Shear Stress[1]	ASTM D7207	2.86 psf	
Light Penetration[1]	ASTM D6567	30.0%	
Biomass Improvement[1]	ASTM D7322	PASS>100%	
Design Parameters			
Unvegetated RUSLE C-Factor[1,2]	ASTM D6459	0.022	
Maximum Slope Gradiant		1.5H:1V	
Unvegetated permissable shear strength[1,2]	ASTM D6460	2.25 psf	
Unvegetated permissable velocity[1,2]	ASTM D6460	9.0 ft/sec	
Manning's Roughness "n" (HEC-15)			
τ_{lower}	τ_{mid}	τ_{upper}	
0.05	0.036	0.032	

Physical Description				
Netting- top net	1" x 2" photodegradable PP			
-bottom net	1" x 2" photodegradable PP			
Thread	Synthetic regular degradable			
Matrix	100% excelcior			
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	34.3 m
Roll Area	100 yd^2	83.6 m^2	200 yd^2	167.2 m^2
Roll Weight	73 lbs	33.1 kg	146 lbs	66.2 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.D			
ECTC	Type 2.D			
AASHTO	Type 2B2			
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.

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