EARTH SAVER
GEOSYNTHETICS & EROSION CONTROL PRODUCTS

ES-2XNN

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

Index Property	Test Method	Value	
Mass Per Unit Area	ASTM D6475	11.8 oz/sy	401 g/m^2
Thickness	ASTM D6525	313 mils	8.0 mm
Tensile Strength MD	ASTM D6818	262 lbs/ft	3.84 kN/m
Tensile Strength TD	ASTM D6818	146 lbs/ft	2.1 kN/m
Bench Scale Tests			
Soil Loss Ratio[1]	ASTM D7101	18.44	
Permanent Shear Stress[1]	ASTM D7207	2.91 psf	
Light Penetration[1]	ASTM D6567	128.0%	
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	8.0 ft/sec	
Manning's Roughness "n" (HEC-15)			
τ_{lower}	τ_{mid}	τ_{upper}	
0.048	0.034	0.031	

Physical Description				
Netting- top net	Jute scrim, biodegradable, leno weave			
-bottom net	Jute scrim, biodegradable, leno weave			
Thread	Biodegradable cotton or rayon			
Matrix	100% excelcior			
Packaging Details				
Roll Width	8 ft	2.4 m	16 ft	4.9 m
Roll Length	101.25 ft	30.9 m	101.25 ft	30.9 m
Roll Area	90 yd^2	75.3 m^2	180 yd^2	150.5 m^2
Roll Weight	66 lbs	30 kg	131 lbs	60 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 1B2			
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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Core & Main Geosynthetics
Direct Phone: 912-534-6071 Toll Free: 800-948-7870
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