

MATERIAL PROPERTY DATA SHEET



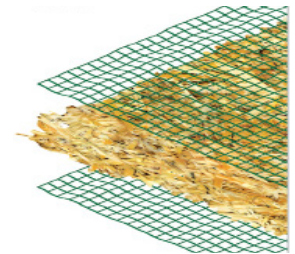
ETX-2

Equivalent and Replaces: R-2 • ECX-2 • E2000

Extended Term • Double Net • Excelsior Wood Matrix •
Erosion Control Blanket

DESCRIPTION

ETX-2 temporary Erosion Control Blanket is composed of a 100% weed free excelsior wood fiber matrix, where 80% of the excelsior fibers are greater than or equal to six inch (150 mm) at the time of production, mechanically (stitch) bonded on two-inch centers between two synthetic, photodegradable net. The nets secured to the top and bottom of the RECP to restrain the excelsior matrix once installed. ETX-2 blanket is intended for use in applications requiring erosion protection for a period up to eighteen 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.



Each roll of ETX-2 is made in the USA and manufactured under MKB's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

Material Content				
Matrix	Excelsior Wood Fiber			
Netting	Top Net: Lightweight, Synthetic, Regular Degradable			
	Bottom Net: Lightweight, Synthetic, Regular Degradable			
Thread	Synthetic, Regular Degradable			
Standard Roll Sizes				
Width	8 ft	(2.4 m)	16 ft	(4.9 m)
Length	112 ft	(34.1 m)	562.5 ft	(168.75 m)
Weight ± 10%	60 lb	(27.0 kg)	600 lb	(270.0 kg)
Area	100 sy	(83.6 m²)	1000 SY	(836.0 m²)
Material available in custom roll sizes				

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Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.33 in.	(8 mm)
Mass/Unit Area	ASTM D6566	9.1 oz/sy	(308 g/sm)
Tensile Strength – MD	ASTM D6818	120 lbs/ft	(1.8 kN/m)
Tensile Strength – TD	ASTM D6818	90 lbs/ft	(1.3 kN/m)
Elongation - MD	ASTM D6818	15%	
Elongation – TD	ASTM D6818	11%	
Density/Specific Gravity	D792	N/A	
Light Penetration	ASTM D6567	28%	
Biomass Improvement	ASTM D7322	425%	
Water Absorption	ASTM D1117	275%	

Design Parameters		
Property	Unvegetated	Vegetated ³
RUSLE C Factor	0.04	N/A
Slope Maximum Gradient ¹	1.5H:1V	N/A
Permissible Shear Stress ²	1.8 psf (85 Pa)	N/A
Permissible Velocity ²	7.0 fps (2.1 m/s)	N/A
Manning's n Roughness (HEC-15)		

τ_{lower}	τ_{mid}	τ_{upper}
0.040	0.030	0.030

1 Maximum Gradient a recommendation for typical inslations.

2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.

3 Vegetated values dependent on established stand of vegetation