

US CONSTRUCTION FABRICS LLC

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Wholesale Distribution

CONSTRUCTION FABRICS, LINERS, & ENVIRONMENTAL PRODUCTS

ECX-1™ Single Net Excelsior Rolled Erosion Control Product

Description:

The ECX-1™ is made with uniformly distributed 100% Aspen wood excelsior and one polypropylene net securely sewn together with degradable thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation. The ECX-1™ has functional longevity of approximately 12 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 2:1 to 3:1 and low to medium flow channels. The ECX-1™ meets Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

Matrix:	1	2
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Aspen Wood Excelsior

Netting:	Type	Net Color
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Top: Lightweight Photodegradable Polypropylene

Green

Middle: None

Bottom: None

Net Opening:	Top	Middle	Bottom
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0.5" x 0.5"

Thread:	Type	Color
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Degradable Thread

White

Roll Sizes:	Standard	"A" Size	Mega
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Width:	7.5 ft	2.3 m	3.75 ft	1.1 m	15 ft	4.6 m
Length:	120 ft	36.6 m	240 ft	73.2 m	120 ft	36.6 m
Weight $\pm 10\%$:	62 lbs	28.1 kg	62 lbs	28.1 kg	124 lbs	56.2 kg
Area:	100 yd ²	83.6 m ²	100 yd ²	83.6 m ²	200 yd ²	167.2 m ²
#/Pallet:	20		9		16	

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	10.00 oz/yd ² 339.1 g/m ²
Thickness	ASTM D6525	0.38 in 9.65 mm
Tensile Strength-MD	ASTM D6818	122 lb/ft 1.78 kN/m
Elongation-MD	ASTM D6818	33 %
Tensile Strength-TD	ASTM D6818	100 lb/ft 1.46 kN/m
Elongation-TD	ASTM D6818	33.0 %
Light Penetration	ASTM D6567	36 %
Density / Specific Gravity	ASTM D792	N/A %
Water Absorption	ASTM D1117	184 %

*May differ depending upon raw material variations

Bench-Scale Testing* (NTPEP***):

Test Method	Parameters	Results
	50mm (2in) / hr-30 min	SLR**=3.98
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=3.64
	150mm (6in) / hr-30 min	SLR**=3.33

ECTC Method 3 Shear Resistance Shear at .50 in soil loss 1.72 lb/ft²

ECTC Method 4 Germination Top soil; Fescue; 21 day incubation 519 %

*Bench scale tests should not be used for design purposes.

**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

***The preceding test data excerpts were reproduced with the permission of AASHTO, however, this does not constitute endorsement or approval of the product, material or device by AASHTO

Slope Performance Design Values*:

Property	Test Method	Value
C-Factors	ASTM D6459	0.03
Slope Length (L)	$\leq 3:1$ 3:1-2:1 $\geq 2:1$	
< 50 ft (15 m)	0.034 0.180	N/A
50 ft – 100 ft	0.104 0.202	N/A
>100 ft (30 m)	0.208 0.319	N/A

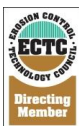
*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

Channel Performance Design Values*:

Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	1.78 lbs/ft ² 85.23 Pa
Unvegetated Velocity	ASTM D 6460	8.5 ft/s 2.59 m/s
Vegetated Shear Stress	NA	N/A lbs/ft ² N/A Pa
Vegetated Velocity	NA	N/A ft/s N/A m/s
Manning's N (Value Represents a Range)		0.028

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

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