



ECX-2 Double Net Excelsior Rolled Erosion Control Product

The ECX-2 is an erosion control blanket made with uniformly distributed 100% Aspen wood excelsior and two polypropylene nets 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-2 has functional longevity of approximately 24 months, but will vary depending on soil and climate conditions, and is suitable for slopes 2:1 to 1.5:1 and medium to high flow channels. The ECX-2 meets Type 3.B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

Materials: Netting – Top / Bottom

Lightweight Photodegradable Polypropylene
0.50" x 0.50" Opening
Color: Green

Matrix

Aspen Wood Excelsior

Thread

Degradable Thread
Color: White

Roll Sizes:

	Standard	"A" Size	Mega
Width:	8.0 ft (2.4 m)	4.0 ft 1.2 m	16.0 ft (4.9 m)
Length:	112.5 ft (34.3 m)	225 ft 68.6 m	112.5 ft (34.3 m)
Weight $\pm 10\%$:	64.0 lbs (29.0 kg)	64 lbs 29.0 kg	128.0 lbs (58.1 kg)
Area:	100 yd ² (83.6 m ²)	100 ys ² 83.6 m ²	200 yd ² (167.2 m ²)
#/Pallet:	20	9	20

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	9.00 oz/yd ² 305.1 g/m ²
Thickness	ASTM D6525	.38 in (9.65 mm)
Tensile Strength-MD	ASTM D6818	169 lb/ft (2.47 kN/m)
Elongation-MD	ASTM D6818	23 %
Tensile Strength-TD	ASTM D6818	86 lb/ft (1.26 kN/m)
Elongation-TD	ASTM D6818	26.0 %
Light Penetration	ASTM D6567	36 %
Density / Specific Gravity	ASTM D792	N/A g/cm ³
Water Absorption	ASTM D1117	171 %

* May differ depending upon raw material variations

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

Test Method	Parameters	Results
ECTC Method 2 Rainfall	50mm (2in) / hr-30 min	SLR**= 6.69
	100mm (4in) / hr-30 min	SLR**= 5.18
	150mm (6in) / hr-30 min	SLR**= 3.99
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.24 lb/ft ²
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	530%

*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 by AASHTO

SLOPE Performance Design Values*:

Property	Test Method	Value
C-Factors	ASTM D6459	0.04
Slope Length (L)	$\leq 3:1$	$3:1 - 2:1$
	$\geq 2:1$	
	< 50 ft (15m)	0.025 0.140 0.250
	50 ft – 100 ft	0.050 0.150 0.300
> 100 ft (30 m)	0.075 0.160 0.340	

*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	2.13 lbs/ft ² (101.98 Pa)
Unvegetated Velocity	ASTM D 6460	10.7 ft/s (3.26 m/s)
Vegetated Shear Stress	NA	NA
Vegetated Velocity	NA	NA
Manning's N	Calculated Range	0.026

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

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