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Material and Performance Specification Sheet

ECX-2 Double Net Excelsior Rolled Erosion Control Product

Description: The ECX-2 is made with uniformly distributed 100% Aspen wood excelsior and two polypropylene nets securely sewn together with degradable thread. The tightly compressed blankets are placed inside vented bags 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 climatic conditions and is suitable for slopes 2:1 to 1.5:1. The ECX-2 meets Type 3.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

Materials:

Netting – Top and Bottom	**Matrix**	**Thread**
Lightweight Photodegradable Polypropylene .5" x .5" Opening	100% Aspen Excelsior 0.69 lbs/sq yd	Degradable 1.50" stitch spacing

Roll Sizes:

	A	**Standards**		**Mega**
Width:	3.75 ft (1.15 m)	7.5 ft (2.3 m)	7.5 ft (2.3 m)	15.0 ft (4.6 m)
Length:	192.0 ft (58.5 m)	96.0 ft (29.3 m)	120.0 ft (36.6 m)	96.0 ft (29.3 m)
Weight ±10%:	55.0 lbs (24.9 kg)	55.0 lbs (24.9 kg)	68.0 lbs (30.8 kg)	110.0 lbs (49.9 kg)
Area:	80 yd^2 (66.9 m^2)	80 yd^2 (66.9 m^2)	100 yd^2 (83.6 m^2)	160 yd^2 (133.8 m^2)
#/Pallet:	21	20	16	25

Also available in 120 ft

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	11 oz/yd^2
Thickness	ASTM D5199	.31 in
Tensile Strength-MD	ASTM D5035	122 lb/ft
Elongation-MD	ASTM D5035	23 %
Tensile Strength-TD	ASTM D5035	67 lb/ft
Elongation-TD	ASTM D5035	26 %
Light Penetration	ECTC Guidelines	36 %
Water Absorption	ASTM D1117	236 %

* 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**=3.53
	100mm (4in) / hr-30 min	SLR**=5.21
	150mm (6in) / hr-30 min	SLR**=7.71
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	1.93 lb/ft
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	463% improvement

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

**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor (soil loss is based on regression analysis).

Design Values*:

Property	Test Method	Value
Manning's N	Calculated	.026
RUSLE C-Factor	ASTM D6459	.035
Maximum Permissible Sheer Stress	ASTM D6460	2.13 psf (102 Pa)
Maximum Flow Velocity	ASTM D6460	10.7 ft/sec (3.3 m/sec)

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

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