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Material and Performance Specification

ECX-2B™ Double Net Excelsior Biodegradable Rolled Erosion Control Product

Description:

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

Matrix:	1	2
	Aspen Wood Excelsior	N/A

Netting:	Type	Net Color
Top:	Organic Leno Weave Jute	Natural
Middle:	None	
Bottom:	Organic Leno Weave Jute	

Net Opening:	Top	Middle	Bottom
	0.5" x 1.0"	N/A	0.5" x 1.0"

Thread:	Type	Color
	Biodegradable Thread	Natural

Roll Sizes:	Standard		"A" Size		Mega	
Width:	8 ft	2.4 m	4.00 ft	1.2 m	16 ft	4.9 m
Length:	112.5 ft	34.3 m	225 ft	68.6 m	112.5 ft	34.3 m
Weight*:	66 lbs	29.9 kg	66 lbs	29.9 kg	132 lbs	59.9 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		20	

*Weight at time of manufacturing.

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	9.50 oz/yd ² 322.1 g/m ²
Thickness	ASTM D6525	0.38 in 9.65 mm
Tensile Strength-MD	ASTM D6818	228.00 lb/ft 3.33 kN/m
Elongation-MD	ASTM D6818	16 %
Tensile Strength-TD	ASTM D6818	156.00 lb/ft 2.28 kN/m
Elongation-TD	ASTM D6818	16.8 %
Light Penetration	ASTM D6567	36 %
Density / Specific Gravity	ASTM D792	N/A g/cm ³
Water Absorption	ASTM D1117	0 %

*May differ depending upon raw material variations

Slope Performance Design Values*:

Property	Test Method	Value
C-Factors	ASTM D6459	0.00
Slope Length (L)		
< 50 ft (15 m)	≤ 3:1	3:1-2:1
50 ft – 100 ft	0.000	N/A
>100 ft (30 m)	0.000	N/A

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

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

Test Method	Parameters	Results
	50mm (2in) / hr-30 min	SLR**=11.6
ECTC Method 2 Rainfall	100mm (4in) / hr-30 min	SLR**=8.73
	150mm (6in) / hr-30 min	SLR**=12.88
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.12 lb/ft ²
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	436 %

*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

Channel Performance Design Values*:

Property	Test Method	Value
Unvegetated Shear Stress	ASTM D 6460	0.00 lbs/ft ² 0.00 Pa
Unvegetated Velocity	ASTM D 6460	0.0 ft/s N/A 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)		0.000

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

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