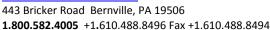


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Material and Performance Specification

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 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 climatic 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.

		and the control of th		
	Aspen Wood Excelsior			
Netting:	Туре		Net Color	
Top: Light	weight Photodegradable Polypropylene		Green	
Middle: None				
Bottom: Light	weight Photodegradable Polypropylene			
Net Opening:	Тор	Middle	Bottom	
	0.5" x 0.5"		0.5" x 0.5"	
Thread:	Туре	Color		
	Degradable Thread	White		
Roll Sizes:	Standard	"A" Size	Mega	
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 <u>+</u> 10%:	64 lbs 29.0 kg	64 lbs 29.0 kg	128 lbs 58.1 kg	
Area:	100 yd² 83.6 m²	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	11.00 oz/yd²	373.0 g/m2		
Thickness	ASTM D6525	0.38 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	135 lb/ft	1.97 kN/m		
Elongation-TD	ASTM D6818	26.0 %			
Light Penetration	ASTM D6567	36 %			
Density / Specific Gravity	ASTM D792	N/A %			
Water Absorption	ASTM D1117	171 %			
water Absorption	ASTIVI DIII7	1/1 /0			

^{*}May differ depending upon raw material variations

Slope Performance Design Values*:				
Property	Test Method		Value	
C-Factors	ASTM D	ASTM D6459		
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1	
< 50 ft (15 m)	0.035	0.144	0.272	
50 ft – 100 ft	0.100	0.172	0.377	
>100 ft (30 m)	0.210	0.317	0.541	

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

Test Method	Parameters	Results	
	50mm (2in) / hr-30 min	SLR**=6.69	
ECTC Method 2 Rainfall	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 To	p soil; Fescue; 21 day incub	ation 530 %	
*Bench scale tests should not be	used for design purposes.		
**Soil Loss Ratio=Soil Loss Bare So	oil/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

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	N/A	lbs/ft ²	N/A	Pa
Vegetated Velocity	NA	N/A	ft/s	N/A	m/s
Manning's N (Value Represe	ents a Range)		0.02	26	

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