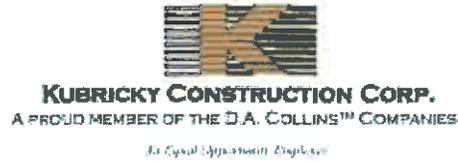


KUBRICKY CONSTRUCTION CORP.
269 BALLARD ROAD

WILTON, NY 12831
518 792-5864



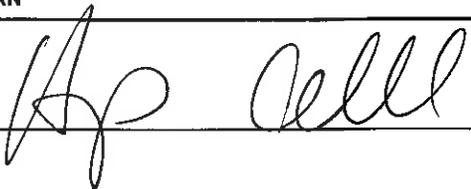
Rutland City BRF 3000 (2014036)
SUBMITTAL 9

Issued 11/07/14
Respond by 11/12/14

To
Timothy Pockette, PE

Topic Permanent Erosion Matting
Status For Approval
Spec section 653.21
Sent to approver 11/7/14

From
HARPER T CALLAHAN

Signed by  Date 11/7/14

Proceed as Indicated _____ Date _____
Owner Authorized Representative



Material and Performance Specification

ECC-2B Double Net Coconut Biodegradable Rolled Erosion Control Product

Description: The ECC-2B is made with uniformly distributed 100% coconut fiber 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 ECC-2B has functional longevity of approximately 24 months, but will vary depending on soil and climatic conditions, and is suitable for slopes 1:1 and medium to high flow channels.. The ECC-2B meets Type 4 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
Organic Leno Weave Jute 100% Biodegradable 0.5" x 1.0" Opening	100% Coconut Fiber 0.55 lbs/yd ² 298.4 g/m ²	Biodegradable 1.50" stitch spacing

Roll Sizes:

	Standard	Mega
Width:	7.5 ft (2.3 m)	15.0 ft (4.6 m)
Length:	120.0 ft (36.6 m)	120.0 ft (36.6 m)
Weight ±10%:	75.0 lbs (34.0 kg)	150.0 lbs (68.0 kg)
Area:	100 yd ² (83.6 m ²)	200 yd ² (167.2 m ²)
#/Pallet:	16	16

Index Value Properties*:

Property	Test Method	Typical
Mass/Unit Area	ASTM D6475	12 oz/yd ² (406.9 g/m ²)
Thickness	ASTM D6525	.31 in (7.9 mm)
Tensile Strength-MD	ASTM D6818	240 lb/ft (3.5 kN/m)
Elongation-MD	ASTM D6818	10.9 %
Tensile Strength-TD	ASTM D6818	164 lb/ft (2.4 kN/m)
Elongation-TD	ASTM D6818	16.0 %
Light Penetration	ASTM D6567	10 %
Water Absorption	ASTM D1117	225 %

* 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**=14.24
	100mm (4in) / hr-30 min	SLR**=18.58
	150mm (6in) / hr-30 min	SLR**=24.25
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.72 lb/ft ²
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	414% 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
***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	
Manning’s N	Calculated	0.015	
C-Factors	ASTM D6459		
Slope Length (L)	≤ 3:1	3:1-2:1	≥ 2:1
< 50 ft (15 m)	0.040	0.053	0.102
50 ft – 100 ft	0.060	0.084	0.120
>100 ft (30 m)	0.094	0.114	0.134

*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	2.25 lbs/ft ² (108 Pa)
Unvegetated Velocity	ASTM D 6460	9.0 ft/s (2.7 m/s)
Vegetated Shear Stress	NA	NA
Vegetated Velocity	NA	NA

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



All Value Properties, Test Results and Design Values were derived from independent laboratory testing. East Coast Erosion Blankets, LLC will not be held liable for any type of damage or losses, directly, or indirectly for failure of this product. Current revision supersedes all previous versions.



Erosion Control
BLANKET

FERGUSON
Waterworks
a WOLSELEY company

Specification Sheet

Factor C Circle Top Pin

Factor C Circle Top Pins are produced from 11 gauge wire, 0.118 to 0.120 bright basic industrial quality, 1008/1010 wire minimum cast, with light oil protection. The staples are manufactured in 6 inch (15.2 cm) length with a 2 inch (5 cm) spiral head configuration.



More information available upon request.