Carthage Mills **Product Data**

Geotextiles | Erosion Control | Geogrids | Geomembranes

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

The ECC-2B is an erosion control blanket 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 climate 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**	**Matrix**	**Thread**
	Organic Leno Weave Jute 0.50" x 1.0" Opening Color: Natural	100% Coconut	Biodegradable Thread Color: Natural

Roll Sizes:	**Standard**	**"A" Size**	**Mega**
Width:	8.0 ft (2.4 m)	4.0 ft 1.2 m	16.0 ft (4.6 m)
Length:	112.5 ft (34.3 m)	225 ft 68.6 m	112.5 ft (34.3 m)
Weight ±10%:	60.0 lbs (27.2 kg)	60 lbs 27.2 kg	120.0 lbs (54.4 kg)
Area:	100 yd^2 (83.6 m^2)	100 ys^2 83.6m^2	200 yd^2 (167.2 m^2)
#/Pallet:	20	9	20

Index Value Properties*:

Property	**Test Method**	**Typical**	
Mass/Unit Area	ASTM D6475	9.50	oz/yd^2 322.1 g/m2
Thickness	ASTM D6525	.23	in (5.84 mm)
Tensile Strength-MD	ASTM D6818	223	lb/ft (3.25 kN/m)
Elongation-MD	ASTM D6818	11	%
Tensile Strength-TD	ASTM D6818	150	lb/ft (2.19 kN/m)
Elongation-TD	ASTM D6818	16.0	%
Light Penetration	ASTM D6567	13	%
Density / Specific Gravity	ASTM D792	N/A g/cm^3	
Water Absorption	ASTM D1117	340	%
* 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**= 14.16
	100mm (4in) / hr-30 min	SLR**= 18.25
	150mm (6in) / hr-30 min	SLR**= 23.24
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.76 lb/ft^2
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	501%
*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		0.02
	Slope Length (L)	≤ 3:1	3:1 – 2:1	≥ 2:1
	< 50 ft (15m)	0.035	0.045	0.095
	50 ft – 100 ft	0.045	0.060	0.105
	> 100 ft (30 m)	0.053	0.070	0.115
*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 (107.73 Pa)
Unvegetated Velocity	ASTM D 6460	9.0 ft/s (2.74 m/s)
Vegetated Shear Stress	NA	NA
Vegetated Velocity	NA	NA
Manning's N	Calculated Range	0.025
*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory		

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