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Wholesale Distribution

CONSTRUCTION FABRICS, LINERS, & ENVIRONMENTAL PRODUCTS

ECC-2™ Double Net Coconut Rolled Erosion Control Product

Description:

The ECC-2™ is made with uniformly distributed 100% coconut fiber and two polypropylene nets securely sewn together with UV stabilized 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-2™ has functional longevity of approximately 36 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-2™ meets Type 4 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

Matrix:	1	2
	100% Coconut	

Netting:	Type	Net Color
Top:	Medium weight UV Stabilized Polypropylene	Black
Middle:	None	
Bottom:	Medium weight UV Stabilized Polypropylene	

Net Opening:	Top	Middle	Bottom
	0.5" x 0.5"		0.75" x 0.75"

Thread:	Type	Color
	UV Stabilized Thread	Black

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 $\pm 10\%$:	57 lbs	25.9 kg	57 lbs	25.9 kg	114 lbs	51.7 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		16	

Index Value Properties*:

Property	Test Method	Typical	
Mass/Unit Area	ASTM D6475	9.25 oz/yd ²	313.6 g/m ²
Thickness	ASTM D6525	0.26 in	6.60 mm
Tensile Strength-MD	ASTM D6818	310 lb/ft	4.52 kN/m
Elongation-MD	ASTM D6818	20 %	
Tensile Strength-TD	ASTM D6818	250 lb/ft	3.65 kN/m
Elongation-TD	ASTM D6818	20.0 %	
Light Penetration	ASTM D6567	16 %	
Density / Specific Gravity	ASTM D792	N/A %	
Water Absorption	ASTM D1117	199 %	

*May differ depending upon raw material variations

Slope Performance Design Values*:

Property	Test Method	Value		
C-Factors	ASTM D6459	0.01		
Slope Length (L)	$\leq 3:1$	3:1-2:1	$\geq 2:1$	
< 50 ft (15 m)	0.010	0.023	0.072	
50 ft – 100 ft	0.030	0.054	0.090	
>100 ft (30 m)	0.064	0.084	0.104	

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

Bench-Scale Testing* (NTPEP**):

Test Method	Parameters	Results
ECTC Method 2 Rainfall	50mm (2in) / hr-30 min	SLR**=8.45
	100mm (4in) / hr-30 min	SLR**=10.43
	150mm (6in) / hr-30 min	SLR**=12.90

ECTC Method 3 Shear Resistance Shear at .50 in soil loss 2.59 lb/ft²

ECTC Method 4 Germination Top soil; Fescue; 21 day incubation 772 %

*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	2.50	lbs/ft ²	119.70	Pa
Unvegetated Velocity	ASTM D 6460	10.0	ft/s	3.05	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)		0.025			

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

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