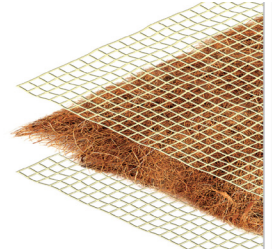




CC-4AN Double Net Coconut Rolled Erosion Control Product

DESCRIPTION

Excel CC-4 All Natural (CC-4AN) Long Term Erosion Control Blanket consists entirely of coconut fibers manufactured into a matrix of uniform thickness and coverage. The coconut matrix is confined by a biodegradable, jute/scrim net on top and bottom, mechanically (stitch) bound on two-inch centers with a biodegradable thread. Excel CC-4AN is intended for slope and channel erosion control applications requiring up to thirty-six months of functional longevity. The material is fully degradable. The net, thread, and the fiber matrix is biodegradable. Actual field longevity is dependent on soil and climatic conditions. Each roll of Excel CC-4AN is made in the USA.



Material Content	
Matrix	Coconut

Netting	Top Net: Jute Scrim, Biodegradable, Leno Weave
	Bottom Net: Jute Scrim, Biodegradable, Leno Weave

Thread	Biodegradable Cotton or Rayon
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Standard Roll Sizes

Width	8 ft (2.4 m)	16 ft (4.9 m)
Length	112 ft (34.1 m)	563 ft (171.0 m)
Weight ± 10%	56.3 lb (25.6 kg)	563 lb (256.0 kg)
Area	100 sy (83.6 m ²)	1000 SY (836.0 m ²)

Material available in custom roll sizes

Approvals & Classification

Classification	FHWA: 4.B / ECTC: 4.B
TTI Approvals	Type B, D
NTPEP Number	ECP-2020-01-011

Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.28 in.	(7 mm)
Mass/Unit Area	ASTM D6566	9.0 oz/sy	(300 g/sm)
Tensile Strength – MD	ASTM D6818	210 lbs/ft	(3.1 kN/m)
Tensile Strength – TD	ASTM D6818	190 lbs/ft	(2.8 kN/m)
Elongation - MD	ASTM D6818	15%	
Elongation – TD	ASTM D6818	15%	
Density/Specific Gravity	D792	N/A	
Light Penetration	ASTM D6567	15%	
Biomass Improvement	ASTM D7322	500%	
Water Absorption	ASTM D1117	300%	

Design Parameters

Property	Unvegetated	Vegetated ³
RUSLE C Factor ²	0.02	N/A
Slope Maximum Gradient ¹	1H:1V	N/A
Permissible Shear Stress ²	2.5 pfs (120 Pa)	N/A
Permissible Velocity ²	9.0 fps (2.7 m/s)	N/A

Manning's n Roughness (HEC-15)

τ_{lower}	τ_{mid}	τ_{upper}
0.023	0.025	0.029

1 Maximum Gradient a recommendation for typical installations.

2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.

3 Vegetated values dependent on established stand of vegetation

Effective 12/01/23

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