

MATERIAL PROPERTY DATA SHEET

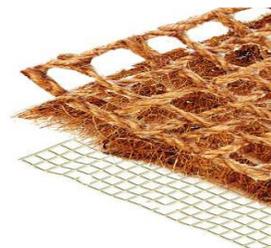


BioNet® C700BN™

Long Term • Double Net • Coconut Matrix •
Biodegradable • Erosion Control Blanket

DESCRIPTION

C700BN 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 heavy woven coir fiber net on top and a biodegradable, jute/scrim net on bottom, mechanically (stitch) bound on two-inch centers with a biodegradable thread. C700BN 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 C700BN is made in the USA and manufactured under Western Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

Material Content

Matrix	Coconut
Netting	Top Net: Heavy Duty Coir Netting Bottom Net: Jute Scrim, Biodegradable, Leno weave
Thread	Biodegradable Cotton or Rayon

Standard Roll Sizes

Width	8 ft	(2.4 m)
Length	45 ft	(13.7 m)
Weight ± 10%	75 lb	(34.0 kg)
Area	40 sy	(33.5 m ²)

Material available in custom roll sizes

Approvals & Classification

Classification	FHWA: N/A / ECTC: N/A
TTI Approvals	N/A
NTPEP Number	N/A

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Index Property Test Method Typical

Thickness	ASTM D6525	0.55 in.	(14 mm)
Mass/Unit Area	ASTM D6566	26.5 oz/sy	(900 g/sm)
Tensile Strength – MD	ASTM D6818	1200 lbs/ft	(17.5 kN/m)
Tensile Strength – TD	ASTM D6818	800 lbs/ft	(11.7 kN/m)
Elongation - MD	ASTM D6818		40%
Elongation – TD	ASTM D6818		40%
Density/Specific Gravity	D792		N/A
Light Penetration	ASTM D6567		15%
Biomass Improvement	ASTM D7322		N/A
Water Absorption	ASTM D1117		175%

Design Parameters

Property	Unvegetated	Vegetated ³
RUSLE C Factor	0.05	N/A
Slope Maximum Gradient ¹	1H:1V	N/A
Permissible Shear Stress ²	N/A	N/A
Permissible Velocity ²	N/A	N/A

Manning's n Roughness (HEC-15)

τ_{lower}	τ_{mid}	τ_{upper}
N/A	N/A	N/A

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

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