

MATERIAL PROPERTY DATA SHEET



C125®

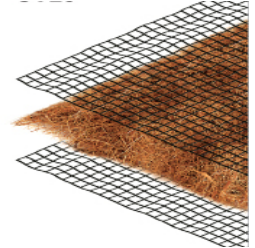
Equivalent and Replaces: CC-4 • ETC- • C4000
Long Term • Double Net • Coconut Matrix •
Erosion Control Blanket

DESCRIPTION

C125 consists of a machine produced, clean coconut fiber matrix, manufactured for consistent coverage and thickness. The coconut matrix is confined by a UV stabilized photodegradable, synthetic net on top and bottom, mechanically (stitch) bound on two-inch centers. C125 is intended for slope or channel erosion control applications requiring up to thirty-six months of functional longevity. The material is fully degradable. The net and thread are photodegradable and the fiber matrix is biodegradable. Actual field longevity is dependent on soil and climatic conditions.

C125 is made in the USA and manufactured under North American Green's Quality Assurance Program to ensure a continuous distribution of fibers and consistent thickness.

C125 is compliant and/or exempt with the Build America, Buy America Act, §§ 70901–70927 of the Investment and Jobs Act (Pub L. 117-58), 2 CFR Part 184 – Buy America Preferences for Infrastructure Projects and OMB Memorandum M-22-11.



Material Content	
Matrix	Coconut

Netting	Top and Bottom Net: Medium weight, Synthetic, Regular Degradable	Double Net (black)
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Thread	Synthetic, Regular Degradable
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Standard Roll Sizes				
Width	8 ft (2.4 m)	8 ft (2.4 m)	16 ft (4.9 m)	16 ft (4.9 m)
Length	112 ft (34.1 m)	563 ft (171 m)	112 ft (34.1 m)	563 ft (171 m)
Weight ± 10%	56.3 lb (25.6 kg)	281.5 lb (128 kg)	112.6 lb (51.2 kg)	563 lb (256 kg)
Area	100 sy (83.6 m²)	500 sy (418 m²)	200 SY (167 m²)	1000 SY (836 m²)
Part Number	C125-8X112.5	C125-8X562.5	C125-16X112.5	C125-16X562.5

Material available in custom roll sizes

Approvals & Classification	
Classification	FHWA: Type 4.B / ECTC: Type 4.B
TTI Approvals	Class 1 Type B, D Class 2 Type E,F
NTPEP Number	ECP-2020-01-012

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Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.28 in.	(7 mm)
Mass/Unit Area	ASTM D6566	9.0 oz/sy	(305 g/sm)
Tensile Strength – MD	ASTM D6818	280 lbs/ft	(4.1 kN/m)
Tensile Strength – TD	ASTM D6818	180 lbs/ft	(2.6 kN/m)
Elongation - MD	ASTM D6818	25%	
Elongation – TD	ASTM D6818	25%	
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	2.3 psf (110 Pa)	N/A
Permissible Velocity ²	9.0 fps (2.7 m/s)	N/A
τ_{veg} / τ_{TRM} (HEC-15)	N/A	0.65

Manning's n Roughness (HEC-15)		
τ_{lower}	τ_{mid}	τ_{upper}
0.033	0.031	0.031

1 Maximum Gradient a recommendation for typical insillations.

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

3 Vegetated values dependent on established stand of vegetation