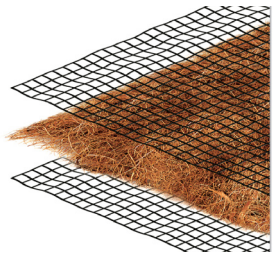
Carthage Mills **Product Data**

Geotextiles | Erosion Control | Geogrids | Geomembranes

CC-4 Double Net Coconut rolled Erosion Control Product

DESCRIPTION

Excel CC-4 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. Excel CC-4 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.



CC-4 is made in the USA.

Material Content		
Matrix	Coconut	
Netting	Top and Bottom Net: Medium weight, Synthetic, Regular Degradable	Double Net (black)
Thread	Synthetic, Regular Degradable	

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: Type 4.B / ECTC: Type 4.B	
TTI Approvals	Class 1 Type B, D	Class 2 Type E,F
NTPEP Number	ECP-2022-01-12	

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

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

1 Maximum Gradient a recomendation for typical insllations.
2 Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.
3 Vegetated values dependent on established stand of vegetation

Effective 12/2025

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