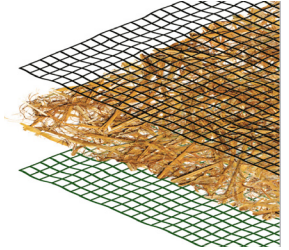




CS-3 Double Net Straw/Coconut Rolled Erosion Control Product

DESCRIPTION

The Coconut/Straw Excel CS-3 extended term Erosion Control Blanket consists of 30% coconut fibers and 70% weed free agricultural straw manufactured into a continuous matrix. The coconut/straw matrix is confined by a photodegradable, synthetic net on top and bottom, mechanically (stitch) bound on two-inch centers. Excel CS-3 is intended for applications requiring up to twenty-four 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. Each roll of Excel CS-3 is made in the USA.



Material Content	
Matrix	Straw/ Coconut Blend
Netting	Top Net: Medium weight, Synthetic, Regular Degradable
	Bottom Net: Lightweight, Synthetic, Regular Degradable
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%	53 lb (24.1 kg)	530 lb (241.0 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 3.B / ECTC: Type 3.B
TTI Approvals	Class 2 Type E
NTPEP Number	ECP-2022-01-013

Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.30 in.	(8 mm)
Mass/Unit Area	ASTM D6566	8.5 oz/sy	(290 g/sm)
Tensile Strength – MD	ASTM D6818	150 lbs/ft	(2.2 kN/m)
Tensile Strength – TD	ASTM D6818	130 lbs/ft	(1.9 kN/m)
Elongation - MD	ASTM D6818		25%
Elongation – TD	ASTM D6818		25%
Density/Specific Gravity	D792		N/A
Light Penetration	ASTM D6567		12%
Biomass Improvement	ASTM D7322		500%
Water Absorption	ASTM D1117		350%

Design Parameters		
Property	Unvegetated	Vegetated ³
RUSLE C Factor ²	0.03	N/A
Slope Maximum Gradient ¹	2H:1V	N/A
Permissible Shear Stress ²	2.0 psf (95 Pa)	N/A
Permissible Velocity ²	8.0 fps (2.4 m/s)	N/A

Manning's n Roughness (HEC-15)		
τ_{lower}	τ_{mid}	τ_{upper}
0.045	0.036	0.031

1 Maximum Gradient a recommendation 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 12/01/23

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