COCOBN

Product Specification

CocoBN is a high-performance full biodegradable erosion control matting, designed to be used in high flow or steeper slope applications where environmental sensitivity is critical.

www.salixrw.com

Salix

CocoBN

For erosion protection and habitat creation

Product Description

The matting is made from 100% natural and biodegradable fibres.

The blanket is covered on the top side with a 60 x 50 woven coir fiber netting with mesh openings not exceeding 1.90 x 1.90 cm.

The blanket is covered on the bottom side with 100% biodegradable woven natural fiber jute netting. The jute netting forms an approximate 1.27 x 2.54 cm mesh.

The blanket is sewn together on 3.81 cm centres with degradable thread.

Sustainable Product

Salix's coir products are made from sustainable sources and support villages in Sri Lanka.

All the coir comes from organically managed coconut plantations, coir husk is a byproduct of coconuts, and excess coir husk is returned to the soil as a natural fertiliser.

The woody characteristics and high lignin content of the coir fibres mean it takes five to seven years for them to rot away – enough time for plants to root and protect the soil.

The fibres are PH Neutral so most plants can grow in them and the coir is inert and doesn't release any toxic tannins or compounds as it biodegrades.

Applications

- Environmentally sensitive sites
- Fluvial applications
- SuDS
- Shorelines
- Steep Slopes

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Material Content		
Matrix	100% Coconut Fibre	270 g/sm
Netting	100% biodegradable 60 x 50 coir netting	700 g/sm
	100% biodegradable jute netting	37.6g/sm
Thread	Biodegradable	

Standard Roll Sizes	
Width	2 m
Length	20 m
Weight	± 10% 33.75 kg
Area	40m^2

Maximum Permissible Shear Stress	
Unvegetated Shear Stress	112 Pa
Unvegetated Velocity	3.05 m/s
Area	33.45 sm

Slope Design Data: C Factors			
Slope Gradients (S)			
Slope Length (L)	≤ 3:1	3:1-2.1	≥ 2:1
≤ 6 m (20 ft)	0.0001	0.018	0.050
6-15m (20-50 ft)	0.003	0.040	0.060
≥ 15.2 m (50 ft)	0.007	0.070	0.070

Index Property	Test Method	Typical
Thickness	ASTM D6525	14.2 mm
Water absorbency	ASTM D1117	186.8%
Swell	ECTC Guidelines	35%
Lignin content	TAPPI TM222	32.8%
Light Penetration	ASTM D6567	14.9%
Tensile Strength – MD	DIN EN ISO 10319: 2008-10	17.9kN/m
Elongation – MD	DIN EN ISO 10319: 2008-10	29.3%
Tensile Strength – TD	DIN EN ISO 10319: 2008-10	11.2 kN/m
Elongation – TD	DIN EN ISO 10319: 2008-10	29.8%

Roughness Coefficients – Unvegetated	
Flow Depth	Manning's n
≤ 0.15 m (0.50 ft)	0.022
0.15-0.60 m (0.50-2.0 ft)	0.022-0.014
≥ 0.60 m (2.0 ft)	0.014

CO2 Emissions	139.8g CO2e/m2*
*Independently verified by carbon product assessment	