

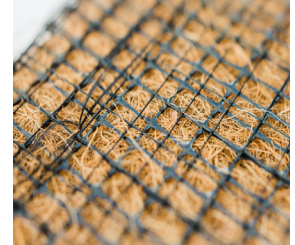


ECC-3 Triple Net Polypropylene Turf Reinforcement Mat

DESCRIPTION

ECC-3 consists of a machine produced, 100% coconut fiber matrix and three UV-stabilized, synthetic nets securely sewn together with UV-stabilized thread. The tightly compressed blankets are wrapped and palletized for easy transportation. ECC-3 is intended for slope or channel erosion control applications needing permanent functionality.

ECC-3 is made in the USA.



Material Content

Matrix	Coconut
Netting	Top Net: Heavyweight, UV Stable
	Middle Net: Ultra-Heavyweight, UV stable
	Bottom Net: Heavyweight, UV stable
Thread	Synthetic, UV Stable

Standard Roll Sizes

Width	8 ft (2.4 m)	16 ft (4.9 m)
Length	112 ft (34.1 m)	112 ft (34.1 m)
Weight ± 10%	92 lb (41.7 kg)	184.0 lb (83.5 kg)
Area	100 SY (83.6 m ²)	200 SY (167.2 m ²)

Material available in custom roll sizes

Approvals & Classification

Classification	FHWA: Type 5.C / ECTC: 5.D
TTI Approvals	Class II, Type H
NTPEP Number	ECP-2021-02-001

Disclaimer: The information contained herein may represent product index data, performance ratings, bench scale testing or other material utility quantifications. Each representation may have unique utility and limitations. Every effort has been made to ensure accuracy, however, no warranty is claimed and no liability shall be assumed by Western Green or its affiliates regarding the completeness, accuracy or fitness of these values for any particular application or interpretation. While testing methods are provided for reference, values shown may be derived from interpolation or adjustment to be representative of intended use. For further information, please feel free to contact Western Green.

©2022, Western Excelsior is a registered trademark from Western Green. Certain products and/or applications described or illustrated herein are protected under one or more U.S. patents. Other U.S. patents are pending, and certain foreign patents and patent applications may also exist. Trademark rights also apply as indicated herein. Final determination of the suitability of any information or material for the use contemplated, and its manner of use, is the sole responsibility of the user. Printed in the U.S.A.

Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.31 in.	(8 mm)
Mass/Unit Area	ASTM D6566	13.0 oz/sy	(450 g/sm)
Tensile Strength – MD	ASTM D6818	800 lbs/ft	(11.7 kN/m)
Tensile Strength – TD	ASTM D6818	625 lbs/ft	(9.1 kN/m)
Elongation - MD	ASTM D6818	20%	
Elongation – TD	ASTM D6818	20%	
UV Stability	ASTM D4355	80% @ 1000 hr	
Light Penetration	ASTM D6567	10%	
Biomass Improvement	ASTM D7322	300%	
Specific Gravity	ASTM D792	57.4 lb/ft ³	(0.92 g/cm ³)
Porosity	ECTC	N/A	

Design Parameters

Property	Unvegetated	Vegetated ³
RUSLE C Factor	0.05	N/A
Slope Maximum Gradient ¹	0.5H:1V	0.5H:1V
Permissible Shear Stress ²	3.2 psf (155 Pa)	12.0 psf (575 Pa)
Permissible Velocity ²	11.5 fps (3.5 m/s)	18.0 fps (5.5 m/s)
τ_{veg} / τ_{TRM} (HEC-15)	N/A	0.67

Manning's n Roughness (HEC-15)

τ_{lower}	τ_{mid}	τ_{upper}
0.021	0.024	0.025

- 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

Effective 12/01/23

Carthage Mills assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Carthage Mills disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.