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## Material and Performance Specification

# EC-4Y COIR MAT

**Description:** Coir fiber is obtained from the bristles of the outer layer of the fruit of the Coconut tree and is 100% biodegradable. Coir Mats are woven with coir fiber yarns providing strength, environmental friendliness and functional longevity in excess of three years. EC-4Y meet the Type 3.A, specifications established by the Erosion Control Technology Council (ECTC) and also meets the Federal Highway Administration’s (FHWA) FP-03 Section 713.17.

### Material: Coconut Fiber

Roll Size	
<b>Width:</b>	6.5 ft (2 m)
<b>Length:</b>	167 ft (50 m)
<b>Area:</b>	120 yd <sup>2</sup> (100 m <sup>2</sup> )
<b>Weight +10%:</b>	14 oz/yd <sup>2</sup> (475 g/m <sup>2</sup> )

Index Value Properties		
Property	Test Method	Value
Mass/Unit Area	ASTM D5261	12.1 oz/yd <sup>2</sup> (409.0 g/m <sup>2</sup> )
Thickness	ASTM D5199	0.24 in. (6.1 mm)
Light Penetration	ASTM D6567	38%
Dry Tensile Strength-MD	ASTM D4595/ASTM D6818*	765 lb/ft (11.2 kN/m)
Dry Elongation-MD	ASTM D4595/ASTM D6818*	28%
Dry Tensile Strength-TD	ASTM D4595/ASTM D6818*	748 lb/ft (10.9 kN/m)
Dry Elongation-TD	ASTM D4595/ASTM D6818*	27%
Wet Tensile Strength-MD	ASTM D4595	685 lb/ft (10.0 kN/m)
Wet Elongation-MD	ASTM D4595	30%
Wet Tensile Strength-TD	ASTM D4595	650 lb/ft (9.5 kN/m)
Wet Elongation-TD	ASTM D4595	30%

Design Value Properties	
Property	
Shear Stress	3.00 lbs/ft <sup>2</sup> (143 Pa)
Velocity	8.0 ft/s (2.44 m/s)
C Factor	0.003
Open Area – Calculated	63%
Net Opening	1" (25 mm) x 1" (25 mm)

\*Both ASTM D4595 and D6818 are used to test tensile strength. ASTM D6818 is preferred in erosion control applications.

Primary Usage			
Slopes	2:1	1:1	>1:1

The values presented are for guidance purposes and do not constitute the practice of engineering. East Coast Erosion Blankets LLC (ECEB) ascertains that at the time of manufacture, all information presented herein is accurate and reliable and falls within the ECEB manufacturing product specification variances. If the product does not meet the stated values and ECEB is notified in writing prior to installation, the product will be replaced at no cost to the purchaser. ECEB will not be held liable for any type of damage or losses, directly, or indirectly for failure of this product. Current revision supersedes all previous versions for this product.

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