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Material and Performance Specification

EC-9Y 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-9Y meet the Type 4.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	
Width:	6.5 ft (2 m)
Length:	167 ft (50 m)
Area:	120 yd2 (100 m2)
Weight +10%:	30 oz/yd2 (1017 g/m2)

Design Value Properties	
Property	
Shear Stress	5.50 lbs/ft2 (263 Pa)
Velocity	16.0 ft/s (4.88 m/s)
C Factor	0.002
Open Area – Calculated	36%
Net Opening	3/8" (10mm) x 3.8" (11mm)

Index Value Properties		
Property	**Test Method**	**Value**
Mass/Unit Area	ASTM D5261	26.7 oz/yd2 (906.0 g/m2)
Thickness	ASTM D5199	0.38 in. (9.7 mm)
Light Penetration	ASTM D6567	18%
Dry Tensile Strength-MD	ASTM D4595/ASTM D6818*	1915 lb/ft (28.0 kN/m)
Dry Elongation-MD	ASTM D4595/ASTM D6818*	26%
Dry Tensile Strength-TD	ASTM D4595/ASTM D6818*	1640 lb/ft (24.0 kN/m)
Dry Elongation-TD	ASTM D4595/ASTM D6818*	29%
Wet Tensile Strength-MD	ASTM D4595	1790 lb/ft (26.2 kN/m)
Wet Elongation-MD	ASTM D4595	40%
Wet Tensile Strength-TD	ASTM D4595	1750 lb/ft (25.6 kN/m)
Wet Elongation-TD	ASTM D4595	40%

*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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