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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. The Coir Mats are available in three weights: EC-4Y – 400 grams/sq. meter; EC 7Y - 700 grams/sq. meter and EC 9Y - 900 grams/sq. meter (14, 22 and 30 oz/sq yard, respectively). EC-4Y and EC-7Y meet the Type 3.B, specifications and EC-9Y meets the Type 4. specification established by the Erosion Control Technology Council (ECTC) and all meet the Federal Highway Administration’s (FHWA) FP-03 Section 713.17.

Material: Coconut Fiber

Roll Size	
Width:	6.5 ft (2 m)
Length:	164 ft (50 m)
Area:	120 yd ² (100 m ²)
Weight +10%:	30 oz/yd ² (1017 g/m ²)

Design Value Properties	
Property	
Shear Stress	5.50 lbs/ft ² (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/yd ² (906.0 g/m ²)
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

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