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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. 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 yd2 (100 m2)
Weight +10%:	14 oz/yd2 (475 g/m2)

Design Value Properties	
Property	
Shear Stress	3.00 lbs/ft2 (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)

Index Value Properties		
Property	**Test Method**	**Value**
Mass/Unit Area	ASTM D5261	12.1 oz/yd2 (409.0 g/m2)
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%

*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

Revised 01/01/2016