



Proud Member and Participant of:  
 443 Bricker Road Bernville, PA 19506  
[www.eastcoasterosion.com](http://www.eastcoasterosion.com)  
 1.800.582.4005 +1.610.488.8496 Fax +1.610.488.8494



## 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	
<b>Width:</b>	6.5 ft (2 m)
<b>Length:</b>	164 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> )

Design Value Properties	
<b>Property</b>	
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)

Index Value Properties		
Property	Test Method	Value
Mass/Unit Area	ASTM D5261	12.1 oz/yd <sup>2</sup> (408.6 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%

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.



Proud Member and Participant of:  
 443 Bricker Road Bernville, PA 19506  
[www.eastcoasterosion.com](http://www.eastcoasterosion.com)  
 1.800.582.4005 +1.610.488.8496 Fax +1.610.488.8494



## Material and Performance Specification

# EC-7Y 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	
<b>Width:</b>	6.5 ft (2 m)
<b>Length:</b>	164 ft (50 m)
<b>Area:</b>	120 yd <sup>2</sup> (100 m <sup>2</sup> )
<b>Weight +10%:</b>	24 oz/yd <sup>2</sup> (814 g/m <sup>2</sup> )

Design Value Properties	
<b>Property</b>	
Shear Stress	4.50 lbs/ft <sup>2</sup> (215 Pa)
Velocity	12.0 ft/s (3.66 m/s)
C Factor	0.003
Open Area – Calculated	41%
Net Opening	5/8" (15 mm) x 1/2" (12 mm)

Index Value Properties		
Property	Test Method	Value
Mass/Unit Area	ASTM D5261	22.3 oz/yd <sup>2</sup> (756.8 g/m <sup>2</sup> )
Thickness	ASTM D5199	0.36 in. (9.1 mm)
Light Penetration	ASTM D6567	33%
Dry Tensile Strength-MD	ASTM D4595/ASTM D6818*	1600 lb/ft (23.4 kN/m)
Dry Elongation-MD	ASTM D4595/ASTM D6818*	27%
Dry Tensile Strength-TD	ASTM D4595/ASTM D6818*	1310 lb/ft (19.2 kN/m)
Dry Elongation-TD	ASTM D4595/ASTM D6818*	27%
Wet Tensile Strength-MD	ASTM D4595	1455 lb/ft (21.3 kN/m)
Wet Elongation-MD	ASTM D4595	27%
Wet Tensile Strength-TD	ASTM D4595	1425 lb/ft (20.8 kN/m)
Wet Elongation-TD	ASTM D4595	27%

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.



Proud Member and Participant of:  
 443 Bricker Road Bernville, PA 19506  
[www.eastcoasterosion.com](http://www.eastcoasterosion.com)  
 1.800.582.4005 +1.610.488.8496 Fax +1.610.488.8494



## 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	
<b>Width:</b>	6.5 ft (2 m)
<b>Length:</b>	164 ft (50 m)
<b>Area:</b>	120 yd <sup>2</sup> (100 m <sup>2</sup> )
<b>Weight +10%:</b>	30 oz/yd <sup>2</sup> (1017 g/m <sup>2</sup> )

Design Value Properties	
<b>Property</b>	
Shear Stress	5.50 lbs/ft <sup>2</sup> (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 <sup>2</sup> (905.9 g/m <sup>2</sup> )
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%

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.