



TerraGreen®

Erosion control coir mattress

TerraGreen® is a composite blanket material made essentially from natural coco fiber with one geosynthetic layer on one side or both sides of the mattress. Very often it is recognized as non-woven natural geotextile. It is a custom designed erosion control mat / blanket useful for protecting dry and intermittently wet and erodible slopes. TerraGreen® is an eco-freindly solution for erosion protection by prompting vegetation growth in a faster way. TerraGreen® as a stand-alone technique or in combination with other solutions like TerraNail® or TerraAnchor® is often used to mitigate low to medium grade surface erosions resulting eventual soil slips and slides.



TerraGreen R



TerraGreen P

Technical Parameters

Property		TerraGreen R				TerraGreen P
		2.5-11-600	2.5-22-600	2.5-11-450	2.5-22-450	Compartment for 2.5-22-600
Physical Properties						
Matrix (100% coconut fiber)		600 g/m²	600 g/m²	450 g/m²	450 g/m²	600 g/m²
Netting (HDPE, light weight)		All over one side	All over both sides	All over one side	All over both sides	All over both sides
Biodegradable		92%	85%	92%	85%	85%
Recommended Selection Criteria						
Slope Length (m) greater and less than		1-8	8-50	1-8	8-50	4-20
Slope Angle (degrees) greater and less than		0-30	30-45	0-20	30-45	45-85
Average Annual Rainfall (mm) greater and less than		0-1200	1200-3000	0-1200	1200-3000	1200-3000
Mechanical Properties						
Thickness (mm)	ASTM D6525	7.5	7.5	7.0	6.5	7.5
Mass (g/m²)	ASTM D5261	600	600	450	450	600
Tensile Machine Direction (kN/m)	ASTM D6818	5.0	8.0	3.5	5.5	8.0
Tensile Cross Direction (kN/m)		2.5	4.0	1.7	2.1	4.0
Elongation at max Machine Direction (%)		48	48	40	40	48
Elongation at max Cross Direction (%)		50	50	45	45	50
Trapezoidal Tear Strength (N)	ASTM D4533	192	338	192	338	338
CBR Puncture resistance (kN)	ASTM D6241	0.75	1.35	0.72	1.20	1.35
Liquid absorptive capacity (%)	ISO-9073-6-2000	83	85	65	70	85
Compartment System Tensile Strength						
Tensile (MD) x (CD) ((kN/m)	ASTM D6818					15.00 x 5
Break load Elongation (MD) x (CD) (%)						118.4 x 99.4
Standard Packaging						
Standard Width (m)		1.95/2.25	1.95/2.25	1.95/2.25	1.95/2.25	1.95/2.25
Standard Length (m)		50	50	50	50	31
Approximate Weight ± 10% (kg)		58/61	58/61	42/55	55/75	62

Technical Parameters

Property		TerraGreen E			
		2.5-COO-600	2.5-COC-600	2.5-JOO-700	2.5-JOJ-900
Physical Properties					
Matrix (100% coconut fiber)		600 g/m²	600 g/m²	700 g/m²	900 g/m²
Netting (light weight)		All over one side cotton	All over both sides cotton	All over one side jute	All over both sides jute
Biodegradable		100%	100%	100%	100%
Recommended Selection Criteria					
Slope Length (m) greater and less than		1-4	1-4	1-8	8-15
Slope Angle (degrees) greater and less than		0-26	0-26	0-36	30-45
Average Annual Rainfall (mm) greater and less than		0-800	0-800	0-800	0-800
Mechanical Properties					
Thickness (mm)	ASTM D6525	7.5	7.5	7.5	7.5
Mass (g/m²)	ASTM D5261	600	600	700	900
Tensile Machine Direction (kN/m)	ASTM D4595	0.65	0.98	6.0	8.0
Tensile Cross Direction (kN/m)		0.60	0.60	4.37	5.0
Elongation at max Machine Direction (%)		35	35	35	35
Elongation at max Cross Direction (%)		45	45	35	35
Liquid/Water absorptive capacity (%)	ISO-9073-6-2000	90	90	100	100
Standard Packaging					
Standard Width (m)		1.95/3.8	1.95/3.8	1.95/3.8	1.95/3.8
Standard Length (m)		50	50	50	50



TerraGreen E Cotton



TerraGreen E Jute