

# DATA SHEET

## BLANKET FOR EROSION CONTROL - STRAW AND COIR FIBERS

**PRODUCT DESCRIPTION:** Blanket composed of a mixture of straw and coir fibers of which 75 % of fibers are 100 mm (4 in) long or more. The top is covered with black oxo-biodegrader polypropylene netting, and the bottom is covered with green oxo-biodegrader polypropylene netting and both netting contain UV additives.

**FUNCTION:** Control

**RAW MATERIAL:** Straw (70 %) fibers, coir fibers (30 %) and polypropylene mesh

### TECHNICAL DATA TABLE

	PROPERTIES	TEST METHOD	VALUES		
			Metric	Imperial	
<b>PHYSICAL</b>	Thickness	ASTM D6525	6.78 mm	0.267 in	
	Mass per unit area	ASTM D6475	228 g/m <sup>2</sup>	0.05 lb/ft <sup>2</sup>	
	Resiliency	ASTM D6524	74.0 %		
	Light penetration	ASTM D6567	15.0 %		
<b>MECHANICAL</b>	Tensile strength MD	ASTM D6818	2.97 kN/m	203.5 lb/ft	
	Tensile strength TD	ASTM D6818	2.12 kN/m	145.0 lb/ft	
	Elongation at break MD	ASTM D6818	27.54 %		
	Elongation at break TD	ASTM D6818	36.52 %		
<b>PERFORMANCE AND DURABILITY</b>	Functional longevity <sup>(4)</sup>	-	≤ 24 months		
<b>OTHER</b>	Swelling	ECTC procedure	55.0 %		
	Water absorbency	ASTM D1117/ECTC	415.0 %		
	Laboratory testing of rain splash	ASTM D7101	SLR = 12.51 @ 2 in/hr <sup>(2,3)</sup>		
			SLR = 12.72 @ 4 in/hr <sup>(2,3)</sup>		
			SLR = 12.98 @ 6 in/hr <sup>(2,3)</sup>		
	Shear test	ASTM D7207	2.11 lb/ft <sup>2</sup> @ 0.5 in of soil loss		
	Germination improvement	ASTM D7322	465.0 %		
<b>DIMENSIONS AND WEIGHT</b>	Width	-	2.44 m	8.0 ft	
	Length	-	34.29 m	112.5 ft	
	Surface	-	83.67 m <sup>2</sup>	900.0 ft <sup>2</sup>	
	Weight (± 10 %)	-	22.7 kg	50.0 lb	
	Mesh openings	Polypropylene (black HV) on top	19.1 mm x 19.1 mm	0.75 in x 0.75 in	
		Polypropylene (green) underneath	12.7 mm x 12.7 mm	0.50 in x 0.50 in	

Note 1: Weight is based on the dry fibre. During its manufacture, the reference humidity levels are 20 % for coir fibers, and 15 % for straw.

Note 2: SLR is the soil leach ratio, as defined by NTPEP/AASHTO.

Note 3: The laboratory tests indexes should not be used for design purposes.

Note 4: Functional longevity varies from region to region because of differences in climatic conditions.

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## DATA SHEET

### BLANKET FOR EROSION CONTROL - STRAW AND COIR FIBERS (CONT.)

Straw and coir mats are designed to channel a flow rate up to 2.6 m/s (8.5 ft/s) and 96 N/m<sup>2</sup> (2.0 lbs/ft<sup>2</sup>) of shear stress limit.

Straw and coir mats have a rate of soil loss of 0.15 and are generally appropriate for slopes up 1.5H:1V.

APPLICATIONS: Retaining walls and embankments  
Grow vegetation areas