



S100B

Specification Sheet

The S100B (Straw Single Net) erosion control blanket (ECB) consists of the finest available agricultural straw with 75% four-inch fibers or greater fiber length, and is certified weed seed free. Product is 100% biodegradable. The straw fibers are evenly distributed throughout the entire area of the blanket. The top of each blanket is covered with biodegradable Jute netting.

Product Nomenclature & Properties

- S** = 100% straw
- 100** = the top and bottom of each blanket is covered with biodegradable Jute netting.
- B** = biodegradable Jute netting

Index & Bench Scale Testing

Test Description	Test Method	Test Results
Thickness	ASTM D6525	0.31 in (7.87 mm)
Light Penetration	ASTM D6567	8.60%
Mass per Unit Area	ASTM D6475	0.43 lb/yd ² (233 g/m ²)
MD - Tensile Strength (max.)	ASTM D6818	199.2 lb/ft (2.92 kN/m)
TD - Tensile Strength (max.)	ASTM D6818	121.2 lb/ft (1.78 kN/m)
MD - Elongation	ASTM D6818	5.50%
TD - Elongation	ASTM D6818	4.50%
Water Absorption	ASTM D1117/ECTC	409.00%
Bench-Scale Rain Splash	ECTC Method 2	SLR = 6.49 @ 2 in/hr
Bench-Scale Rain Splash	ECTC Method 2	SLR = 8.94 @ 4 in/hr
Bench-Scale Rain Splash	ECTC Method 2	SLR = 12.33 @ 6 in/hr
Bench-Scale Shear	ECTC Method 3	1.45 lb/ft ² @ 0.5" soil loss
Germination Improvement	ECTC Method 4	154%

Design Values

- "C" factor = 0.050
- Shear Stress (Unvegetated) = 1.55 lb/ft² (74 Pa)
- Velocity (Unvegetated) = 4.5 ft/s (1.4 m/sec)
- Functional Longevity*: ≤ 12 months

*Functional Longevity varies from region to region because of differences in climatic conditions.

Standard Roll Details

Width	2.4m (8ft) Standard
Length	34.3m (112.5ft)
Area	83.6m ² (100yd ²)
Weight*	22.7kg (50lb)
Mass per Unit Area (± 10%)	0.27 kg/m ² (0.50 lb/yd ²)
Net Openings (FibreNet® - Jute)	25.4 mm x 12.7 mm (≈ 1.0 in x 0.5 in)

*Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of straw and coconut fibers is 15% and 20%, respectively.