

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. Stitching thread is UV degradable (biodegradable stitching thread available upon request).

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

Tested Property	Test Method	Test Results
Thickness	ASTM D6525	0.31in (7.87mm)
Light Penetration	ASTM D6567	8.60%
Mass per Unit Area	ASTM D6475	0.43lb/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	ASTM D7101	SLR = 20.93 @ 2 in/hr
Bench-Scale Rain Splash	ASTM D7101	SLR = 16.32 @ 4 in/hr
Bench-Scale Rain Splash	ASTM D7101	SLR = 12.81 @ 6 in/hr
Bench-Scale Shear	ASTM D7207	1.54 lb/ft ² @ 0.5" soil loss
Germination Improvement	ASTM D7322	473%

Design Values

- "C" Factor = 0.05
 - 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)
 - Length 34.3m (112.5ft)
 - Area 83.6m² (100yd²)
 - Weight* 22.7kg (50lb)
 - Mass per Unit Area (± 10%) 0.27 kg/m² (0.50 lb/yd²)
 - Net Openings 25.4 mm x 12.7 mm (1.0 in x 0.5 in)
- * Weight in based on a dry fibre weight basis at time of manufacture. Baseline moisture content of straw is 15%