



S100

Specification Sheet

The S100 (Straw Fibre) 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. The straw fibers are evenly distributed throughout the entire area of the blanket. The top of each blanket is covered with green polypropylene netting containing oxo-biodegrader and UV additives.

Product Nomenclature & Properties

- S** = 100% straw fibers
- 100** = the top of each blanket is covered with green polypropylene netting containing oxo-biodegrader and UV additives.

Index & Bench Scale Testing

Test Description	Test Method	Test Results
Thickness	ASTM D6525	0.31 in (7.87 mm)
Light Penetration	ASTM D6567	21.6%
Resiliency	ASTM D6524	65.00%
Mass per Unit Area	ASTM D6475	0.43 lb/yd ² (233 g/m ²)
MD - Tensile Strength (max.)	ASTM D6818	142.8 lb/ft (2.09 kN/m)
TD - Tensile Strength (max.)	ASTM D6818	52.8 lb/ft (0.77 kN/m)
MD - Elongation	ASTM D6818	32.70%
TD - Elongation	ASTM D6818	26.30%
Swell	ECTC Procedure	22.00%
Water Absorption	ASTM D1117/ECTC	447.00%
Bench-Scale Rain Splash	ECTC Method 2	SLR = 7.33 @ 2 in/hr
Bench-Scale Rain Splash	ECTC Method 2	SLR = 8.25 @ 4 in/hr
Bench-Scale Rain Splash	ECTC Method 2	SLR = 9.30 @ 6 in/hr
Bench-Scale Shear	ECTC Method 3	1.54 lb/ft ² @ 0.5" soil loss
Germination Improvement	ECTC Method 4	476%

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) Standard	4.9m (16ft)
Length	34.3m (112.5ft)	34.3m (112.5ft)
Area	83.6m ² (100yd ²)	167.2m ² (200yd ²)
Weight*	22.7kg (50lb)	45.4kg (100lb)
Mass per Unit Area (± 10%)	0.27 kg/m ² (0.50 lb/yd ²)	0.27 kg/m ² (0.50 lb/yd ²)
Net Openings (Polypropylene)	12.7 mm x 12.7 mm (0.50 in x 0.50 in)	12.7 mm x 12.7 mm (0.50 in x 0.50 in)

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