

W100 G Specification Sheet

The W100 G (Wood 100 - Single Net - Green Fiber) erosion control blanket (ECB) consists of a specific cut of seed free Great Lakes Aspen curled wood excelsior with 80% of the fibers ≥ 6 inches in length. It is of consistent thickness with fibers evenly distributed throughout the entire area of the blanket. The top of each blanket is covered with green polypropylene netting containing oxo-biodegrader additive.

Product Nomenclature & Properties

- W** = 100% wood excelsior
- 100** = the top of each blanket is covered with green polypropylene netting containing oxo-biodegrader additive.
- G** = green fiber

Index & Bench Scale Testing

| Test Description | Test Method | Test Results |
|------------------------------|-----------------|---|
| Thickness | ASTM D6525 | 10.44 mm (0.411 in) |
| Light Penetration | ECTC Procedure | 45.00% |
| Resiliency | ASTM D1117/ECTC | 59.00% |
| Mass per Unit Area | ASTM D5261/ECTC | 309 g/m ² (0.57 lb/yd ²) |
| MD - Tensile Strength (max.) | ASTM D6818 | 1.09 kN/m (74.4 lb/ft) |
| TD - Tensile Strength (max.) | ASTM D6818 | 0.53 kN/m (36.0 lb/ft) |
| MD - Elongation | ASTM D5035/ECTC | 37.70% |
| TD - Elongation | ASTM D5035/ECTC | 32.30% |
| Swell | ECTC Procedure | 49.00% |
| Water Absorption | ASTM D1117/ECTC | 253.00% |
| Bench-Scale Rain Splash | ECTC Method 2 | SLR = 5.76 @ 2 in/hr |
| Bench-Scale Rain Splash | ECTC Method 2 | SLR = 7.16 @ 4 in/hr |
| Bench-Scale Rain Splash | ECTC Method 2 | SLR = 8.90 @ 6 in/hr |
| Bench-Scale Shear | ECTC Method 3 | 2.19 lb/ft ² @ 0.5" soil loss |
| Germination Improvement | ECTC Method 4 | 572% |

Design Values

- "C" factor = 0.018
- Shear Stress (Unvegetated) = 84 Pa (1.75 lb/ft²)
- Velocity (Unvegetated) = 2.1 m/sec (7.0 ft/sec)
- Functional Longevity*: ≤ 18 months

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

Standard Roll Details

| | |
|---|---|
| Width | 2.44m (8 ft) |
| Length | 30.9m (101.25ft) |
| Area | 75.3m ² (90.0yd ²) |
| Weight* | 29.8kg (65.7lb) |
| FiberCount | $\approx 8,400$ per m ² ($\approx 7,000$ per yd ²) |
| Fibre Length (80% min.) | ≥ 15.2 cm (≥ 6.0 in) |
| Mass per Unit Area ($\pm 10\%$) | 0.40 kg/m ² 0.73lb/yd ² |
| Net Openings | 25.4 mm x 50.8 mm (1.0 in x 2.0 in) |

*Weight is based on a dry fiber weight basis at time of manufacture. Baseline-moisture content of Great Lakes Aspen excelsior is 22%.