



SUPPLEMENTAL SPECIFICATION

DS75



The North American Green DS75 ultra short-term single net straw erosion control blanket is constructed with a 100% agricultural straw fiber matrix and has a functional longevity of up to 45 days. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographic location, and elevation). The straw fiber shall be evenly distributed over the entire area of the blanket. The blanket shall be covered on the top with a lightweight accelerated photodegradable polypropylene net having an approximate 0.50 x 0.50 inch (1.27 x 1.27 cm) mesh size. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The following list contains further physical properties of the DS75 erosion control blanket.

<u>Property</u>	<u>Test Method</u>	<u>Typical</u>
Thickness	ASTM D5199/ECTC	0.33 in (8.38 mm)
Resiliency	ECTC Guidelines	78.80%
Mass per Unit Area	ASTM D6475	6.42 oz/yd ² (218 g/m ²)
Water Absorption	ASTM D1117/ECTC	424%
Swell	ECTC Guidelines	15%
Stiffness/Flexibility	ASTM D1388/ECTC	6.31 oz-in (70,523 mg-cm)
Light Penetration	ECTC Guidelines	11%
Smolder Resistance	ECTC Guidelines	Yes**
MD Tensile Strength	ASTM D5035	115.20 lbs/ft (1.68 kN/m)
MD Elongation	ASTM D5035	11.90%
TD Tensile Strength	ASTM D5035	93.60 lbs/ft (1.37 kN/m)
TD Elongation	ASTM D5035	9.60%

**Material is smolder resistant according to specified test

MD – Machine direction

TD – Transverse direction

Bench Scale Testing[†]

Test Method - Description	Parameters	Results
ECTC Method 2 – Determination of unvegetated RECP's ability to protect soil from rain splash and associated runoff	50 mm (2 in)/hr for 30 min	Soil loss ratio* = 9.72
	100 mm (4 in)/hr for 30 min	Soil loss ratio* = 8.80
	150 mm (6 in)/hr for 30 min	Soil loss ratio* = 8.31
ECTC Method 3 – Determination of unvegetated RECP's ability to protect soil from hydraulically-induced shear stress. Failure criteria = 0.50 inch soil loss	Shear: 1.26 lbs/ft ² for 30 min	Soil loss: 128g
	Shear: 1.82 lbs/ft ² for 30 min	Soil loss: 572g
	Shear: 2.39 lbs/ft ² for 30 min	Soil loss: 828g
	Shear at 0.50 inch soil loss (450g)	1.95 lbs/ft²
ECTC Draft Method 4 – Determination of temporary RECP performance in encouraging seed germination and plant growth	Top soil; Fescue (Kentucky 31); 21 day incubation 27° C ± 2° & approximately 50% RH	Percent improvement = 177% (increased biomass)

* Soil Loss Ratio = Soil Loss with Bare Soil / Soil Loss with RECP (NOTE: Soil loss based on regression analysis)

[†]Bench Scale Performance Testing

Bench scale tests are index property tests. These tests are not indicative of field performance and therefore should not be used in design to establish performance levels for rolled erosion control products. Bench scale tests are performed according to methods developed by the Erosion Control Technology Council (ECTC).