Erosion Protection

ADS 00S1AN EROSION CONTROL BLANKET SPECIFICATION

Scope

This specification describes ADS 00S1AN erosion control blanket.

Erosion Control Blanket Requirements

ADS 00S1AN all natural temporary erosion control blanket is composed of a 100% weed free agricultural straw matrix mechanically (stitch) bonded on two inch centers to a single biodegradable, jute/scrim net. Straw utilized in manufacturing the 00S1AN is certified weed free. Thread utilized in the construction of the blanket is biodegradable cotton or rayon. ADS 00S1AN is recommended for use in channels or slopes requiring erosion protection for a period up to twelve (12) months.

Each roll of ADS 00S1AN all natural is manufactured in the U.S.A. under a quality assurance program to ensure a continuous distribution of fibers and consistent thickness. Values provided in Tables 1 and 2 represent expected values at the time of manufacture. Installation instructions and performance data are available from ADS Geosynthetics Technical Support Division. ADS 00S1AN conforms to the property values listed below:

Erosion Control Blanket Properties

Property	Test Method	Unit	Value
Thickness	ASTM D6525	in. (mm)	0.28 (7)
Mass per Unit Area	ASTM D6566	oz/sy (g/m)	8.0 (275)
Tensile Strength	ASTM D6818	lbs/ft (kN/m)	125 (1.8) MD; 90 (1.3) TD
Elongation	ASTM D6818	%	15 MD, 15 TD
Density/Specific Gravity	ASTM D792	-	-
Light Penetration	ASTM D6567	%	15
Biomass Improvement	ASTM D7322	%	375
Water Absorption	ASTM D1117	%	400

Packaging

Roll Dimensions (W x L) - ft. (m)	8 x 112 (2.4 x 34.1)/16 x 563 (4.9 x 171.0)
Area yds^2 (m^2)	100 (83.6)/1,000 (836.0)
Weight ±10% lb (kg)	50 (22.7)/500 (227)

Design Parameters

Property	Unvegetated	Vegetated[3]
RUSLE C Factor[2]	0.02	N/A
Slope Maximum Gradient[1]	3H:1V	N/A
Permissible Shear Stress[2]	1.6 psf (75 Pa)	N/A
Permissible Velocity[2]	5.0 fps (1.5 m/s)	N/A

1. Maximum Gradient a recommendation for typical installations.
2. Hydraulic thresholds compliant with ASTM D6459/D6460 but generalized for typical applications.
3. Vegetated values dependent on established stand of vegetation.

Advanced Drainage Systems, Inc.