



ADS PP5-12 TURF REINFORCEMENT MAT GEOTEXTILE SPECIFICATION

Scope

This specification describes ADS PP5-12 Turf Reinforcement Mat.

Turf Reinforcement Mat Requirements

ADS PP5-12 is composed of 100% synthetic components. A matrix of green polypropylene fibers is mechanically (stitch) bound between two UV stabilized, heavy-duty synthetic nets. Stitching is secured on 2" (50 mm) centers using UV stabilized, heavy-duty polypropylene thread. ADS PP5-12 is a permanent, three-dimensional TRM that provides immediate erosion protection and long-term turf reinforcement and is intended for slope or channel applications requiring erosion protection for greater than 36 months.

Each roll of ADS PP5-12 is manufactured under a quality assurance program to ensure a continuous distribution of fibers and consistent thickness. Verified values are provided in Table 1 and product characteristics are provided in Tables 2 and 3. Values provided in Tables 1, 2 and 3 represent expected values at the time of manufacture. Installation instructions and performance data are available from ADS Technical Support Division. ADS PP5-12 conforms to the physical property values listed below:

Turf Reinforcement Mat Properties

Table 1 - Verified Values

Property	Test Method	Unit	Value
Tensile Strength	ASTM D6818	lb/in	20.8 (MD), 17.7 (TD)
Elongation	ASTM D6818	%	25 (MD), 25 (TD)
Mass per Unit Area	ASTM D6475	oz/yd ²	12.0
Thickness	ASTM D6525	mm	9.6
Light Penetration	ASTM D6567	% open	20
Resiliency	ASTM D6524	%	88
UV Stability	ASTM D4355	%	100
Porosity	Computed	%	96

Table 2 - Netting

Top Net	Synthetic, UV Stable
Bottom Net	Synthetic, UV Stable
Top Net Opening	.75 x .75 in (Nominal)
Bottom Net Opening	.75 x .75 in (Nominal)

Table 2 - Roll Dimensions

Roll Size - ft (m)	8 x 112.5 (2.4 x 34.2)
Coverage - yd ² (m ²)	100 (83.6)
Roll Weight - lbs (kg)	75 (34.0)