



ADS GEOSYNTHETICS PP5-12 TURF REINFORCEMENT MAT

Scope

This specification describes ADS Geosynthetics PP5-12 turf reinforcement mat.

Turf Reinforcement Mat Requirements

ADS Geosynthetics 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 two inch centers using UV stabilized, heavy duty polypropylene thread. Excel 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 thirty-six months.

Each roll of ADS Geosynthetics 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 Geosynthetics Technical Support Division. ADS Geosynthetics PP5-12 conforms to the physical property values listed below:

Erosion Control Blanket Properties

| Table 1 - Verified Values | | | |
|---------------------------|-------------|-------------------------|--------------------|
| Tested Property | Test Method | Value | Units |
| Tensile Strength | ASTM D6818 | 20.8 (MD), 17.7 (TD) | lb/in |
| Elongation | ASTM D6818 | 25 (MD), 25 (TD) | % |
| Mass per Unit Area | ASTM D6475 | 12.0 | oz/yd ² |
| Thickness | ASTM D6525 | 9.6 | mm |
| Light Penetration | ASTM D6567 | 20 | % open |
| Resiliency | ASTM D6524 | 88 | % |
| UV Stability | ASTM 4355 | 100 | % |
| Porosity | Computed | 96 | % |

| Table 2 - Netting | |
|--------------------|-----------------------------|
| Top Net | Synthetic, UV Stable |
| Bottom Net | Synthetic, UV Stable |
| Top Net Opening | 0.75 in x 0.75 in (Nominal) |
| Bottom Net Opening | 0.75 in x 0.75 in (Nominal) |

| Table 3 - Roll Dimensions | | |
|---------------------------|---------------------|---------------------|
| Style | Narrow | Wide |
| Roll Width | 7.5 ft | 15.0 ft |
| Roll Length | 120 ft | 120 ft |
| Coverage | 100 yd ² | 200 yd ² |
| Roll Weight | 75 lbs | 150 lbs |