



PRODUCT SPECIFICATION - TURFMAT™ 300N

TuRFMat™ 300N turf reinforcement and fertilization mat has a highly porous GREEN layer consisting of durable polyester fibers reinforced with a netting layer. The polyester fibers are resin-bonded with non-water-soluble polymer to form a flame retardant, U. V. stable, three dimensional matrix.

The mat is treated with phosphorous and nitrogen specifically to accelerate new vegetation growth and to provide permanent reinforcement of the emerging and established root system. TurfMat™ 300N intended for moderate shear stress installations.

TuRFMat™ 300N has the following physical and performance properties:

<u>Product Property</u>	<u>Test Method</u>	<u>Typical Value</u>
Thickness	ASTM D6525	0.75"
Resiliency	ASTM D6524	70%
Mass per Unit Area	ASTM D6475	9.0 oz/sq. yd. (excluding weight of netting layer)
Porosity	ECTC TASC 00197	95.0%
Light Penetration	ASTM D6567	10.0%
Tensile Strength	ASTM D6818	300 lbs per foot (with netting layer)
UV Stability	ASTM D4355-02	80% retained @ 500 hours
<u>Performance Data</u>	<u>Test Method</u>	<u>Typical Value</u>
Soil Loss Ratio	ECTC Method 2	50.0 (based on 4" per hr. for 30 mins. 3:1 slope)
C Factor	ECTC Method 2	0.02 (based on 4" per hr. for 30 mins. 3:1 slope)
Bench Shear Stress – Unvegetated	ECTC Method 3	3.5 psf
Biomass Improvement	ECTC Method 4	250% (Fescue, 21 day incubation with top soil)
<u>Soil Fertilization Data</u>	<u>Test Method</u>	<u>Typical Value</u>
Nitrogen Component	Proprietary	~ 1.0 lbs per 1,000 square feet
Phosphorous Component	Proprietary	~ 2.0 lbs per 1,000 square feet
Potassium Component	Proprietary	0
<u>Roll Data</u>	<u>Test Method</u>	<u>Typical Value</u>
Roll Width	N/A	8'-0"
Roll Length	N/A	90'-0"
Roll Weight	N/A	48 pounds
Roll Area	N/A	80 sq. yds.

1. *The product shall ideally be installed with 6" long yellow polypropylene 'MatStakes™' as supplied by Western Nonwovens, Inc. MatStakes shall be placed at an ave. spacing of no more than 12" c-c on overlap seams and termination details, 30" c-c on sloped areas and 36" c-c on flat surfaces. MatStake spacings may need to be reduced to 24" c-c, or less, for areas where shear stresses and flow velocities necessitate a closer spacing. Alternatively 8" x 2" x 8" steel staples (8 ga.) may be used. TurfMat 300N is intended mainly for storm water erosion control applications, such as swales, channels, ditches and mild slopes, etc.*
2. *TuRFMat is intended for use where accelerated turf growth is desired and anticipated shear stresses and flow velocities are low to moderate. In cases where anticipated shear stresses and flow velocities exceed the capacity of the product, it is recommended that TuRFMat be combined with higher strength turf reinforcement mats in accordance with ECTC guidelines.*