



# PROPEX Landlok 450

**PROPEX®** Landlok® 450 turf reinforcement mat (TRM) features X3® technology that consists of a dense web of interlocking, multi-lobed polypropylene fibers positioned between two biaxially oriented nets and mechanically bound together by parallel stitching with polypropylene thread. The TRM is designed to accelerate seedling emergence, exhibit high resiliency, and possess strength and durability properties to minimize damage during installation. Every component of Landlok 450 is stabilized against chemical and ultraviolet degradation which are normally found in a natural soil environment. Furthermore, the TRM contains no biodegradable components.

Landlok 450 conforms to the property values listed below<sup>1</sup> and is manufactured at a Propex facility having achieved ISO 9001:2008 certification. Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Properties	Test Method	English	Metric
<b>Origin of material</b>			
% U.S. Manufactured		100%	100%
<b>Physical Properties</b>			
Mass/Unit Area <sup>2</sup>	ASTM D6566	10.0 oz/sy	339 g/m <sup>2</sup>
Thickness <sup>2</sup>	ASTM D6526	0.50 in	12.7 mm
Light Penetration (% Passing) <sup>2</sup>	ASTM D6567	20%	
Color	Visual	Green or Tan	
<b>Mechanical Properties</b>			
Tensile Strength <sup>2</sup>	ASTM D6818	425 x 350 lb/ft	6.2 x 5.1 kN/m
Elongation <sup>2</sup>	ASTM D6818	50%	
Resiliency <sup>2</sup>	ASTM D6524	90%	
Flexibility <sup>2</sup>	ASTM D6575	0.026 in-lb	30,000 mg-cm
<b>Endurance</b>			
UV Resistance % Retained at 1,000 hrs <sup>2</sup>	ASTM D4355	80%	
<b>Performance</b>			
Velocity (Vegetated) <sup>2,3</sup>	Large Scale	18 ft/s	5.5 m/s
Shear Stress (Vegetated) <sup>2,3</sup>	Large Scale	10 lb/ft <sup>2</sup>	479 Pa
Manning's n (Unvegetated) <sup>2,4</sup>	Calculated	0.025	
Seedling Emergence <sup>2</sup>	ASTM D7322	409%	
<b>Roll Sizes</b>		8.0 ft x 140 ft	2.45 m x 42.7 m
		16.0 ft x 140 ft	4.88 m x 42.7 m
		16.0 ft x 348.75 ft	4.88 m x 106.3 m

## NOTES:

<sup>(1)</sup> The property values listed above are effective 05/01/2023 and are subject to change without notice. Values represent testing at time of manufacture.

<sup>(2)</sup> Values represent testing at time of manufacture and are shown as typical values.

<sup>(3)</sup> Maximum permissible velocity and shear stress has been obtained through vegetated testing programs featuring specific soil types, vegetation classes, flow conditions, and failure criteria. These conditions may not be relevant to every project nor are they replicated by other manufacturers. Please contact Solmax for further information.

<sup>(4)</sup> Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.



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GEOSYNTHETICS

## LOCATIONS & CONTACT INFO

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## SOLUTIONS WE SUPPLY

### GEOSYNTHETICS

Filter Fabrics

Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

### SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

### EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

### STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

### SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

**GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT**  
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