Product Data Sheet

Landlok® TRM–435

LANDLOK® 435 turf reinforcement mat (TRM) *features X3™ technology* that consists of a dense web of crimped, 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 elongation properties to limit stretching in a saturated condition. Every component of LANDLOK 435 is stabilized against chemical and ultraviolet degradation which are normally found in a natural soil environment. Furthermore, the TRM contains no biodegradable components.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
☐ **Physical**			
Mass Per Unit Area	ASTM D 6566	271 g/m^2	8.0 oz/yd^2
Thickness	ASTM D 6525	8.9 mm	0.35 in
Light Penetration (% passing)	ASTM D 6567	40%	
☐ **Performance / Design Values**			
Shear Stress - Vegetated	Large Scale	383 Pa	8 lb/ft^2
Velocity – Vegetated	Large Scale	3.7 m/sec	12 ft/sec
Mannings "n" – Unvegetated	Calculated	.025	.025
Seedling Emergence	ECTC Draft Method #4	273%	
☐ **Endurance**			
UV Resistance	ASTM D 4355	80% @ 1000 hrs	
☐ **Mechanical**			
Tensile Strength	ASTM D 6818	3.3 x 2.6 kN/m	225 x 175 lb/ft
Tensile Elongation		50% (max)	
Flexibility	ASTM D 6575	16,000 mg-cm (avg)	0.015 in-lb (avg)
Resiliency	ASTM D 6524	80%	
☐ **Dimensional**			
Standard Roll Size / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	2.0 m x 42.2 m 83.6 m^2 22.7 kg 50.8 cm diameter	6.5 ft x 138.5 ft 100 yd^2 50 lbs 20 in. diameter

☐ 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.

☐ Mannings "n" is calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.

☐ Unless otherwise noted, all properties reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.

☐ The properties reported above are effective 08/2006 and are subject to change without notice.