

LANDLOK® EROSION CONTROL BLANKETS



Landlok® Erosion Control Blankets (ECBs) are comprised of either straw and/or coconut fibers or polypropylene yarns and fibers, and most are reinforced on one or both sides by a polypropylene netting. Designed to hold seed and soil in place, protect emerging seedlings and accelerate vegetation growth in low to moderate erosion applications, ECBs are engineered to degrade over a period of one to three years as vegetation becomes robust enough to maintain long-term erosion protection by itself.






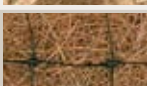
FEATURES & BENEFITS

- ▶ Recognized as a Best Management Practice (BMP) by the U.S. EPA*
- ▶ Can be handled and installed easily
- ▶ Protects seed and soil; provides erosion control until vegetation is strong enough to take over
- ▶ Available through nationwide distribution network

Outperforms and is more cost-effective than conventional erosion control methods, including:

- ▶ Blown straw and hydraulic mulch
- ▶ Bonded fiber matrix

LANDLOK® EROSION CONTROL BLANKETS PRODUCT FAMILY TABLE

PRODUCT	FUNCTIONAL LONGEVITY	COLOR	FIBER TYPE	# OF NETS	FHWA FP-03, SECTION 713 COMPLIANCE
 LANDLOK® 407	SHORT-TERM DEGRADABLE (1 YEAR)	WHITE (NATURAL)	POLYPROPYLENE	0 (WOVEN)	—
 LANDLOK S1	SHORT-TERM DEGRADABLE (1 YEAR)	TAN	STRAW	1	TYPE 2C
 LANDLOK S2	SHORT-TERM DEGRADABLE (1 YEAR)	TAN	STRAW	2	TYPE 2C
 LANDLOK SUPERGRO®	EXTENDED-TERM DEGRADABLE (1.5 YEARS)	GREEN	POLYPROPYLENE	1	—
 LANDLOK CS2	EXTENDED-TERM DEGRADABLE (2 YEARS)	BROWN & TAN	70% STRAW 30% COCONUT	2	TYPE 3A, 3B
 LANDLOK C2	LONG-TERM DEGRADABLE (3 YEARS)	BROWN	COCONUT	2	TYPE 4

*U.S. EPA: United States Environmental Protection Agency

LANDLOK® EROSION CONTROL BLANKETS

APPLICATION RECOMMENDATIONS FOR LANDLOK® EROSION CONTROL BLANKETS

	APPLICATION	FUNCTIONAL LONGEVITY	PRODUCT STYLE	INSTALLED COST ¹	ANCHOR RECOMMENDATIONS
SLOPES ²	1.5H:1V	LONG-TERM DEGRADABLE (3 YEARS)	LANDLOK® C2	\$2.00 - 2.75/yd ² \$2.39 - 3.29/m ²	2 ANCHORS/yd ² 2.5 ANCHORS/m ²
	2H:1V	EXTENDED-TERM DEGRADABLE (2 YEARS)	LANDLOK CS2	\$1.75 - 2.25/yd ² \$2.09 - 2.69/m ²	2 ANCHORS/yd ² 2.5 ANCHORS/m ²
	3H:1V	SHORT-TERM DEGRADABLE (1 YEAR)	LANDLOK S2	\$1.25 - 1.75/yd ² \$1.50 - 2.09/m ²	1.5 ANCHORS/yd ² 1.8 ANCHORS/m ²
	3H:1V	SHORT-TERM DEGRADABLE (1.5 YEARS)	LANDLOK SUPERGRO®	—	1.5 ANCHORS/yd ² 1.8 ANCHORS/m ²
	4H:1V OR FLATTER	SHORT-TERM DEGRADABLE (1 YEAR)	LANDLOK S1	\$1.00 - 1.50/yd ² \$1.20 - 1.79/m ²	1 ANCHOR/yd ² 1.2 ANCHORS/m ²
	4H:1V OR FLATTER	SHORT-TERM DEGRADABLE (1 YEAR)	LANDLOK 407	\$1.00 - 1.50/yd ² \$1.20 - 1.79/m ²	1 ANCHOR/yd ² 1.2 ANCHORS/m ²
	SWALES & LOW-FLOW CHANNELS ³	SHEAR STRESS UP TO 2.0 lbs/ft ² (96 N/m ²)	SHORT-TERM DEGRADABLE (1 YEAR)	LANDLOK S2	\$1.25 - 1.75/yd ² \$1.50 - 2.09/m ²
EXTENDED-TERM DEGRADABLE (1.5 YEARS)			LANDLOK SUPERGRO®	—	1.5 ANCHORS/yd ² 1.8 ANCHORS/m ²
VELOCITY UP TO 5.0 to 6.0 ft/sec (1.5 to 1.8 m/sec)		EXTENDED-TERM DEGRADABLE (2 YEARS)	LANDLOK CS2	\$1.75 - 2.25/yd ² \$2.09 - 2.69/m ²	2.5 ANCHORS/yd ² 3 ANCHORS/m ²
		LONG-TERM DEGRADABLE (3 YEARS)	LANDLOK C2	\$2.00 - 2.75/yd ² \$2.39 - 3.29/m ²	2.5 ANCHORS/yd ² 3 ANCHORS/m ²

NOTES: 1. Installed cost estimates range from large to small projects according to material quantity. The estimates include material, seed, labor and equipment. Costs vary greatly in different regions of the country. 2. For slopes steeper than 1.5 H:1V, please see our Landlok® TRM and Pyramat® HPTRM product brochure. 3. For channels with shear stress greater than 2.0 lbs/ft² (96 N/m²) and a velocity greater than 5.0 to 6.0 ft/sec (1.5 to 1.8 m/sec), please see our Landlok TRM and Pyramat® HPTRM product brochure.

KEY PROPERTIES OF LANDLOK® EROSION CONTROL BLANKETS

- ▶ Mass Per Unit Area: Ensures a consistent distribution of fibers within the matrix, which leads to improved erosion protection.
- ▶ Functional Longevity: Product range allows selection of the best product for the application.

LANDLOK® EROSION CONTROL BLANKETS PROPERTY TABLE¹ ENGLISH & METRIC UNITS

	PROPERTY	TEST METHOD	VALUE	LANDLOK® 407	LANDLOK S1	LANDLOK S2	LANDLOK SUPERGRO®	LANDLOK CS2	LANDLOK C2
MECHANICAL	TENSILE STRENGTH	ASTM D-6818	TYPICAL	460 x 250 lb/ft 6.7 x 3.7 kN/m	50 x 65 lb/ft 0.73 x 0.95 kN/m	75 x 75 lb/ft 1.1 x 1.1 kN/m	N/A	100 x 100 lb/ft 1.5 x 1.5 kN/m	150 x 150 lb/ft 2.2 x 2.2 kN/m
	TENSILE ELONGATION	ASTM D-6818	TYPICAL	30% x 40	20%	25%	N/A	30%	25%
PHYSICAL	MASS PER UNIT AREA	ASTM D-6475	TYPICAL	2.2 oz/yd ² 75 g/m ²	8.5 oz/yd ² 288 g/m ²	8.8 oz/yd ² 298 g/m ²	0.70 oz/yd ² 23.7 g/m ²	8.8 oz/yd ² 298 g/m ²	8.8 oz/yd ² 298 g/m ²
	THICKNESS	ASTM D-6525	TYPICAL	–	0.11 in 2.8 mm	0.25 in 6.35 mm	–	0.40 in 10.2 mm	0.30 in 7.6 mm
ENDURANCE	FUNCTIONAL LONGEVITY	OBSERVED	TYPICAL	SHORT-TERM DEGRADABLE (1 YEAR)	SHORT-TERM DEGRADABLE (1 YEAR)	SHORT-TERM DEGRADABLE (1 YEAR)	EXTENDED-TERM DEGRADABLE (1.5 YEARS)	EXTENDED-TERM DEGRADABLE (2 YEARS)	LONG-TERM DEGRADABLE (3 YEARS)
PACKAGING	ROLL WIDTH	MEASURED	TYPICAL	12.5 ft 3.81 m	8 ft 2.45 m	8 ft 2.45 m	7.5 ft 2.3 m	8 ft 2.45 m	8 ft 2.45 m
	ROLL LENGTH	MEASURED	TYPICAL	432 ft 131.7 m	112.5 ft 34.3 m	112.5 ft 34.3 m	1200 ft 365.8 m	112.5 ft 34.3 m	112.5 ft 34.3 m
	ROLL WEIGHT	CALCULATED	TYPICAL	98 lb 44 kg	53 lb 24 kg	53 lb 24 kg	44 lb 20 kg	55 lb 25 kg	55 lb 25 kg
	ROLL AREA	MEASURED	TYPICAL	600 yd ² 502 m ²	100 yd ² 84 m ²	100 yd ² 84 m ²	1000 yd ² 836 m ²	100 yd ² 84 m ²	100 yd ² 84 m ²

NOTES: 1. The property values listed are effective 08/2006 and are subject to change without notice.

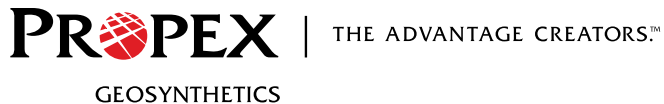
LANDLOK® EROSION CONTROL BLANKET PERFORMANCE VALUES ENGLISH & METRIC UNITS

MATERIAL	FUNCTIONAL LONGEVITY	MAXIMUM SHORT-TERM SHEAR STRESS AND VELOCITY (UNVEGETATED) ²		MANNING'S "n"	C-FACTOR
		SHEAR STRESS	VELOCITY	0.6 in (0-150 mm)	
LANDLOK® 407	SHORT-TERM DEGRADABLE (1 YEAR)	–	–	–	–
LANDLOK S1	SHORT-TERM DEGRADABLE (1 YEAR)	2.0 lb/ft ² 96 N/m ²	n/r	n/r	0.14
LANDLOK S2	SHORT-TERM DEGRADABLE (1 YEAR)	2.0 lb/ft ² 96 N/m ²	5.0 - 6.0 ft/sec 1.5 - 1.8 m/sec	0.027	0.21
LANDLOK SUPERGRO®	EXTENDED-TERM DEGRADABLE (1.5 YEARS)	2.0 lb/ft ² 96 N/m ²	–	–	–
LANDLOK CS2	EXTENDED-TERM DEGRADABLE (2 YEARS)	2.0 lb/ft ² 96 N/m ²	5.0 - 6.0 ft/sec 1.5 - 1.8 m/sec	0.021	0.09
LANDLOK C2	LONG-TERM DEGRADABLE (3 YEARS)	2.0 lb/ft ² 96 N/m ²	5.0 - 6.0 ft/sec 1.5 - 1.8 m/sec	0.018	0.06

NOTES: 1. "n/r" not recommended for use in swales and low-flow channels.

2. Typical design limits for natural vegetation are a maximum shear stress of 2.0 lb/ft² (96 N/m²) and a velocity limit of 5.0 to 6.0 ft/sec (1.5 to 1.8 m/sec).

For downloadable documents like construction specifications, installation guidelines, case studies and other technical information, please visit our web site at geotextile.com. These documents are available in easy-to-use Microsoft® Word formats.



Propex Inc.
6025 Lee Highway, Suite 425 PH: 423 899 0444
PO Box 22788 PH: 800 621 1273
Chattanooga, TN 37422 FAX: 423 899 7619
www.geotextile.com

Geotex®, Landlok®, Pyramat®, X3®, SuperGro®, Petromat® and Petrotac® are registered trademarks of Propex Inc.

THIS PUBLICATION SHOULD NOT BE CONSTRUED AS ENGINEERING ADVICE. WHILE INFORMATION CONTAINED IN THIS PUBLICATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE, PROPEX DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS. THE ULTIMATE CUSTOMER AND USER OF THE PRODUCTS SHOULD ASSUME SOLE RESPONSIBILITY FOR THE FINAL DETERMINATION OF THE SUITABILITY OF THE INFORMATION AND THE PRODUCTS FOR THE CONTEMPLATED AND ACTUAL USE. THE ONLY WARRANTY MADE BY PROPEX FOR ITS PRODUCTS IS SET FORTH IN OUR PRODUCT DATA SHEETS FOR THE PRODUCT, OR SUCH OTHER WRITTEN WARRANTY AS MAY BE AGREED BY PROPEX AND INDIVIDUAL CUSTOMERS. **PROPEX SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM PROVISION OF SAMPLES, A COURSE OF DEALING OR USAGE OF TRADE.**