



# SCOURLOK™

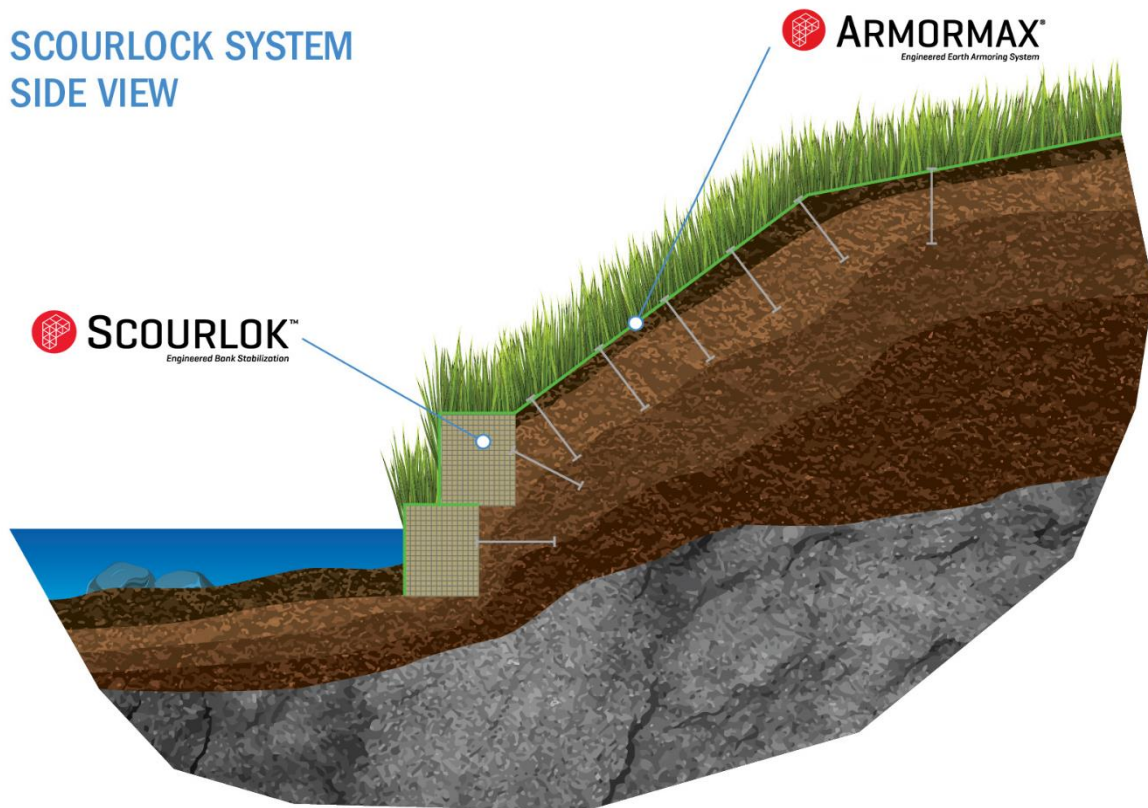
Engineered Bank Stabilization

## Product Data

SCOURLOK® is an Engineered Bank Stabilization system designed to resist extreme hydraulic stresses and protect shorelines. SCOURLOK is ideal for applications that need below water scour protection in addition to slope stabilization and erosion control. SCOURLOK is constructed of rigid cells armored with PYRAMAT® 75 High Performance Turf Reinforcement Mat (HPTRM) and internally lined with GEOTEX® nonwoven geotextile. PYRAMAT is fastened to the rigid cells to provide a flexible exterior, control erosion, and improve system durability and forms pockets that can be filled with mulch or other media to promote and sustain vegetation. The durable geotextile lining allows the rigid cell to be filled with earth, sand, gravel, crushed rock and other granular material.

SCOURLOK provides permanent erosion protection from time of initial construction. SCOURLOK has superior strength and durability to withstand the most demanding environments. SCOURLOK is manufactured at a Propex facility with ISO 9001:2008 certification and has property values listed below<sup>1</sup>. Propex also performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

### SCOURLOCK SYSTEM SIDE VIEW



ENGINEERED EARTH ARMORING SOLUTIONS™

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PYRAMAT® 75 PROPERTIES	TEST METHOD	ENGLISH	METRIC
<b>PHYSICAL</b>			
Thickness <sup>2</sup>	ASTM D-6525	0.40 in	10.2 mm
Light Penetration (% Passing) <sup>3</sup>	ASTM D-6567	10%	10%
Color	Visual	Green or Tan	
<b>MECHANICAL</b>			
Tensile Strength <sup>2</sup>	ASTM D-6818	4000 x 3000 lbs/ft	58.4 x 43.8 kN/m
Elongation <sup>2</sup>	ASTM D-6818	40 x 35 %	40 x 35 %
Resiliency <sup>2</sup>	ASTM D-6524	80%	80%
Flexibility <sup>4</sup>	ASTM D-6575	0.534 in-lb	616,154 mg-cm
<b>ENDURANCE</b>			
UV Resistance % Retained at 3,000 hrs <sup>4</sup>	ASTM D-4355	90%	90%
UV Resistance % Retained at 6,000 hrs <sup>4</sup>	ASTM D-4355	90%	90%
<b>PERFORMANCE</b>			
Velocity (Vegetated) <sup>4,5</sup>	Large Scale	25 ft/sec	7.6 m/sec
Shear Stress (Vegetated) <sup>4,5</sup>	Large Scale	16 lb/ft <sup>2</sup>	766 Pa
Manning's n (Unvegetated) <sup>4,6</sup>	Calculated	0.028	0.028
<b>GEOTEXTILE PROPERTIES</b>			
<b>PHYSICAL</b>			
Mass Per Unit Area	ASTM D-5261	6.5 oz/yd <sup>2</sup>	220 g/m <sup>2</sup>
Thickness	ASTM D-5199	57 mils	1.37 mm
Color	Visual	Tan	
<b>MECHANICAL</b>			
Grab Tensile Strength	ASTM D-4632	210 lbs	934 N
Grab Tensile Strength Elongation	ASTM D-4632	80%	80%
Trapezoidal Tear	ASTM D-4533	80 lbs	356 N
CBR Puncture	ASTM D-6241	550 lbs	2447 N
Apparent Opening Size (AOS)	ASTM D-4751	0.004 in - 0.007 in	0.11 mm - 0.18 mm
Permittivity	ASTM D-4491	1.1 sec <sup>-1</sup>	1.1 sec <sup>-1</sup>
<b>ENDURANCE</b>			
UV Retention % Retained @ 1000 hrs	ASTM D-4355	80%	80%
<b>PERFORMANCE</b>			
Chemical Exposure (Diesel fuel and	MIL-STD-810 Method 504.1	90%	90%
Acid and Alkali Exposure (Sulfuric Acid)	MIL-STD-810 Method 504.1	90%	90%
Acid and Alkali Exposure (Calcium	MIL-STD-810 Method 504.1	80%	80%
High Temperature Exposure	MIL-STD-810 Method 501.5	90%	90%
Low Temperature Exposure	MIL-STD-810 Method 502.5	90%	90%
Blowing Sand Abrasion	MIL-STD-810 Method 510.5	85%	85%
Burn Propagation when filled		No Flame Spread	

- NOTES:**
- The property values listed above are effective 01/01/2019 and are subject to change without notice. Values represent testing at time of manufacture.
  - Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.
  - Maximum Average Roll Value (MaxARV), calculated as the typical plus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will meet to the value reported.
  - Typical Value.
  - 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 Propex for further information.
  - 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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### TYPE B2 ANCHOR PROPERTIES

Component Materials	Material Composition	Physical Properties
Anchor Head	Aluminum	5.01 in x 1.75 in x 1.64 in (127.3 mm x 44.5 mm x 41.7 mm) Bearing Area: 6.92 in <sup>2</sup> (44.6 mm <sup>2</sup> )
Cable Tendon	Galvanized Steel	Diameter: 0.1875 in (4.8 mm)
Lower Termination	Aluminum	Length: 0.65 in (16.5 mm), Wall Thickness: 0.11 in (2.8 mm)
Load Bearing Plate	Aluminum	5.98 in x 6.6 in x 0.75 in (151.9 mm x 167.6 mm x 19.1 mm) Bearing Area: 17.43 in <sup>2</sup> (112.5 mm <sup>2</sup> )
Top Termination	Aluminum	Circumferential Tripple Wedge Grip Assembly to Eliminate Cable Pinch Points Grip to Cable Contact Surface Area: 0.505 in <sup>2</sup> (325.8 mm <sup>2</sup> ) Grip to Cable Contact Ratio: 97% of Cable Diameter

### Performance Properties

Ultimate Assembly Strength	2600 lb (11.57 kN)	Typical Working Load	1500 lb (6.67 kN)
Ultimate Cable Strength	3700 lb (16.46 kN)	Embedment Depth	6-12 ft (1.83-3.66 m)

### RIGID CELL PROPERTIES

	TEST METHOD	ENGLISH	METRIC
<b>MECHANICAL</b>			
Ultimate Tensile Strength	ASTM E8/E8M	99,350 psi	685 Mpa
Ultimate Tensile Elongation	ASTM E8/E8M	7%	7%
Weld Shear Strength	ASTM E8/E8M	70%	70%
<b>DEMINSIONS</b>			
Rigid Cell		4 ft x 3 ft x 15 ft	1.2 m x 0.9 m x 4.5 m
Wire Diameter		0.157 inches	4 mm

SCOURLOK can be connected and/or stacked to accommodate most projects size, shape and site condition.

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