



# ENGINEERED EARTH ARMORING SOLUTIONS



# ENGINEERED ENVIRONMENTAL SOLUTIONS

Our erosion control products are more than a soft armoring solution, they're environmentally-friendly and maintain a low carbon footprint. Engineered with patented trilobal **X3® Fiber Technology** to promote rapid root development, most installations are covered by vegetation after several months, providing a more natural look compared to the stale appearance of rock rip rap and concrete.

But the importance of our green solutions goes beyond aesthetics.

Our erosion control solutions:

- Maintain a cooler water temperature than traditional hard armoring, which is healthier for aquatic life habitats
- Decrease sedimentation and pollutants to improve water quality
- Encourage infiltration of water back into the ground water table
- Support a living shoreline, whereas hard armoring can decrease streamside vegetation and adversely impact fish populations

**The EPA has identified High Performance Turf Reinforcement Mats (HPTRMs) like PYRAMAT® as a Best Management Practice (BMP) for improving water quality.**

Our manufacturing facility in Ringgold, GA is ISO 14001 certified. This international certification recognizes that Propex is actively measuring its environmental impact and continuously looking for ways to improve it.



## Installation Comparison: ARMORMAX® vs. RipRap

Typical placement of 1 acre, or about 5,000 SY, of erosion protection.



**ARMORMAX®**

**VS.**

**Riprap**



**\*DAYS 5**

*\*Based on a 4-person crew with equipment operator, working 8 hrs per day.*



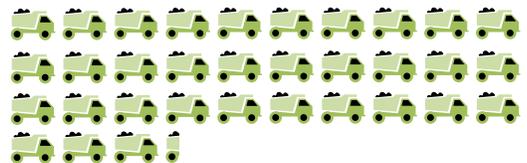
**\*\*CONTAINER VAN 1/2**



**\*\*\*DOLLARS \$28 PER SY**



**\*DAYS 11**



**\*\*DUMP TRUCKS 334**

*\*\*Based on 6" stone size at 18" depth and 15 tons per dump truck.*



**\*\*\*DOLLARS \$65 PER SY**

*\*\*\*Assuming \$25/ton for material, average fuel and equipment costs, and labor as specified above.*

# TOTAL GEOSOLUTIONS FOR EROSION CONTROL

## WORLD CLASS SUPPORT

Propex's team of professional engineers offers full service support throughout the design process. Engineering Services will help create a unique design for your project, select the right solution, and support your installation efforts through on-site training.

Contact Engineering Services directly at: **423-553-2465**  
or **GEOENGINEERING@PROPEXGLOBAL.COM**.

## TESTED. PROVEN. TRUSTED

Our patented products are manufactured in Ringgold, GA and shipped to customers in more than 85 countries across the globe. Encompassing more than 807,000 sq. ft. of manufacturing and distribution space, our plant boasts the industry's largest geosynthetic capacity under one roof. This facility houses an on-site testing facility that is certified by the Geosynthetic Accreditation Institute/Laboratory Accreditation Program (GAI-LAP) and is ISO 9001 and 14001 certified.

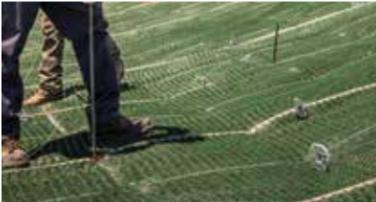
## X3® FIBER TECHNOLOGY

Our woven, three-dimension High Performance Turf Reinforcement Mat (HPTRM) is designed with patented X3® Fiber Technology. This technology it is specially engineered for superior erosion control on steep slopes and vegetated waterways.

- Covers 40% more surface area than conventional fibers to capture the moisture, soil and water required for rapid vegetation growth
- Exhibits high tensile strength as well as superior interlock and reinforcement capacity with both soil and root systems
- Provides maximum ultraviolet protection for long-term design life
- Offers netless, durable construction that stands up to the toughest erosion applications where high loading and/or high survivability conditions are required.



# ENGINEERED EARTH ARMORING SOLUTIONS PRODUCT GUIDE

			APPLICATIONS	MATERIAL COMPOSITION	ANTICIPATED MAINTENANCE	ANTICIPATED WILDLIFE IMPACT	ANTICIPATED DEBRIS LOADING	REQUIRED DESIGN LIFE
Severe 		 SCOURLOK™	Stream Bank Stabilization, Canals, Lake/Pond Banks	Woven HPTRM, Nonwoven Geotextile & Rigid Cell System	Withstands Heavy Mowing	Deters Burrowing & Entrapment	High	Up to 75 years
		 PYRAWALL™	Wrapped-face Mechanically Stabilized Earth (MSE) Structures, Reinforced Soil Slopes (RSS), Stream Bank Stabilization, Landslide Remediation, Vegetated Facing, Wing Walls for GRS-IBS	Woven HPTRM With Internal Bracing System	Withstands Heavy Mowing	Deters Burrowing & Entrapment	High	Up to 75 years
		 ARMORMAX™	Levees, Canal/Stream Banks, Shorelines, Channels, Earthen Dams & Spillways, Steepened Slopes, Roadway Embankments	Anchored Woven HPTRM System	Withstands Heavy Mowing	Deters Burrowing & Entrapment	High	Up to 75 years
		 PYRAMAT™ 75	Steepened Slopes, Stormwater Channels, Vegetated Waterways, Detention Ponds, Landfill Erosion Control, Arid & Semi-arid Environment Soil Protection	Woven HPTRM	Withstands Heavy Mowing	Deters Burrowing & Entrapment	High	Up to 75 years
		 PYRAMAT™ 25	Moderate Flow Channels, Moderate Slopes, Moderate Stress Conditions	Woven TRM	Withstands Light Mowing	Deters Burrowing & Entrapment	Moderate	Up to 25 years
		 LANDLOK™ TRM	Channels, Slopes, Detention Ponds, Vegetated Waterways, Roadside Erosion Control	Stitch-Bonded TRM	Mowing Not Recommended	Potential Entrapment	None	Up to 10 years
Moderate		 LANDLOK™ ECB	Low to Moderate Erosion Applications, Moderate Slopes, Swales, Low-Flow Channels	Degradeable	Mowing Not Recommended	Potential Entrapment	None	Up to 3 years

Most products available in green or tan.



Need help determining which solutions is right for your project? Try out EC Design, our web-based erosion control modeling application at [PropexGlobal.com/EC-Design](https://PropexGlobal.com/EC-Design). Contact our Engineering Services Team by phone **423-553-2465** or email [GeoEngineering@PropexGlobal.com](mailto:GeoEngineering@PropexGlobal.com)



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