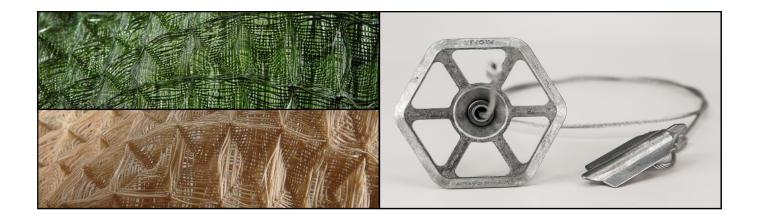


The ARMORMAX® 75 for Erosion Control is an Engineered Earth Armoring Solution[™] used for permanent erosion protection in vegetated and unvegetated applications. It is composed of two components: PYRAMAT® 75 High Performance Turf Reinforcement Mat (HPTRM) and Type B1 Engineered Earth Anchors. ARMORMAX® 75 is available in green or tan to provide for an aesthetically pleasing solution with proven performance. The anchor component is specifically designed and tested for compatibility and performance with PYRAMAT® 75 HPTRM to provide a system solution. Propex offers several anchor options to provide the ARMORMAX® 75 system designed for specific challenges and needs. The expected design life of ARMORMAX® 75 is up to 75 years because of its superior UV resistance, resistance to corrosion, strength, and durability in the most demanding environments.



The PYRAMAT® 75 HPTRM component of ARMORMAX® 75 values listed below¹ while manufactured at a Propex facility having achieved ISO 9001:2015 certification. Propex also performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

The Type B1 Anchor model is used for permanent erosion protection applications and has a working load of up to 500 lbs. The Type B1 Anchor consists of an aluminum anchor head, galvanized steel cable, aluminum ferrules, zinc-aluminum load-locking mechanism, and a zinc-aluminum top plate. The bullet nose design of the anchor head allows the anchor to penetrate PYRAMAT® 75 HPTRM resulting in minimal installation damage. The Type B1 Anchor is also designed with a recessed cavity so the top of the cable can be cut below the surface being protected.



ENGINEERED EARTH ARMORING SOLUTIONS[™]

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ARMORMAX® 75

For Erosion Control

PYRAMAT® 75 HPTRM PROPERTIES				
PROPERTY	TEST METHOD	ENGLISH	METRIC	
ORIGIN OF MATERIALS				
% U.S. Manufactured		100%	100%	
PHYSICAL				
Thickness ²	ASTM D-6525	0.40 in	10.2 mm	
Light Penetration (% Passing) ³	ASTM D-6567	10%	10%	
Color	Visual	Green or Tan		
MECHANICAL				
Tensile Strength ²	ASTM D-6818	4000 x 3000 lbs/ft	58.4 x 43.8 kN/m	
Elongation ²	ASTM D-6818	40 x 35 %	40 x 35 %	
Resiliency ²	ASTM D-6524	80%	80%	
Flexibility ⁴	ASTM D-6575	0.534 in-lb	616,154 mg-cm	
ENDURANCE				
UV Resistance % Retained at 3,000 hrs ⁴	ASTM D-4355	90%	90%	
UV Resistance % Retained at 6,000 hrs ⁴	ASTM D-4355	90%	90%	
PERFORMANCE				
Velocity (Vegetated) ^{4,5}	Large Scale	25 ft/sec	7.6 m/sec	
Shear Stress (Vegetated) ^{4, 5}	Large Scale	16 lb/ft ²	766 Pa	
Manning's n (Unvegetated) ^{4, 6}	Calculated	0.028	0.028	
USACE / CSU Wave Overtopping	Large Scale	USACE Approved		
Seedling Emergence ⁴	ASTM D-7322	296%	296%	
		8.5 ft x 120 ft	2.6 m x 36.6 m	
ROLL SIZES		15.0 ft x 120 ft	4.6 m x 36.6 m	

TYPE B1 ANCHOR PROPERTIES

Material Composition	Physical Properties		
		3.57 in x 1.26 in x 0.91 in	
Aluminum	(90.7 mm x 32 mm x 23.1 mm)		
	Be	aring Area: 3.44 in² (22.2 cm²)	
Galvanized Steel	Diameter: 0.109 in (2.8 mm)		
Aluminum	Length: 0.63 in (16 mm), Wall Thickness: 0.09 in (2.3 mm)		
	3.97 in x 4.4 in x 0.25 in		
Zinc-Aluminum	(100.8 mm x 111.8 mm x 6.4 mm)		
	Bearing Area: 8.07 in ² (52.1 cm ²)		
	Circumferential Tripple Wedge Grip Assembly to Eliminate Cable Pinch Points		
Zinc-Aluminum	Grip to Cable Contact Surface Area: 0.242 in ² (1.6 cm ²)		
	Grip to Cable Contact Ratio: 83% of Cable Diameter		
1300 lb (5.78 kN)	Typical Working Load	500 lb (2.22 kN)	
1600 lb (7.12 kN)	Embedment Depth	3-5 ft (0.91-1.52 m)	
	Aluminum Galvanized Steel Aluminum Zinc-Aluminum Zinc-Aluminum 1300 lb (5.78 kN)	Aluminum (9 Be Be Galvanized Steel Image: Constraint of the second s	

1. The property values listed above are effective 04/22/2021 and are subject to change without notice. Values represent testing at time of manufacture.

2. 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.

3. 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.

4. Typical Value.

5. 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.

6. 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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