



**SCOURLOK™ SHORELINE DEFENSE SYSTEM(SDS) GENERAL INSTALLATION GUIDELINES**

- GENERAL NOTES**
- ARMORMAX® 75 is an engineered solution used for permanent erosion protection or surficial slope stability in vegetated and unvegetated applications. It is composed of two components: PYRAMAT® 75 High Performance Turf Reinforcement Mat (HPTRM) and Engineered Earth Anchors. ARMORMAX® 75 is available in green or tan to provide for an aesthetically pleasing solution with proven performance.
    - PYRAMAT® 75 HPTRM is a three-dimensional, lofty, woven polypropylene geotextile that is available in green or tan which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of polypropylene monofilament yarns featuring X3® technology woven into a uniform configuration of resilient pyramid-like projections. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.
    - The Type B2 anchor model is used for surficial slope stability applications and has a working load of up to 1,500 lbs. The Type B2 anchor consists of a die cast aluminum anchor head, zinc-aluminum coated carbon steel cable, a die cast zinc load-locking mechanism with a ceramic roller, and two aluminum ferrules. The bullet nose design of the anchor head allows the anchor to penetrate HPTRM resulting in minimal installation damage. The Type B2 anchor is also designed with a recessed cavity so the top of the cable can be cut below the surface being protected.
    - The 12", 18", and 24" Securing Pins are composed of a wire, mushroomed at the top. A washer is then placed on the wire and the wire is crimped or swaged about 3-1/2" below the top so the washer will not slide off. The end of the wire is cut at a 45 degree angle for easy penetration of the soil. These Pins with washers conform to industry standards for erosion control pins with washers.
  - SCOURLOK™ Shoreline Defense System(SDS) provides a durable, geotechnically stable structure that provides immediate erosion protection and long-term vegetative cover. 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..
  - Hog Ring to be 16 gauge stainless steel or approved equivalent to be installed at 2' maximum longitudinal spacing.
- VEGETATION ESTABLISHMENT**
- Prepare seedbed by loosening 50 to 75 mm (2 to 3 in) of soil above final grade. Apply seed in an amount equivalent to 60% of the total mixture required to be installed on the soil surface, to scarified surface prior to installation of the ARMORMAX® 75. Select and apply soil amendments and fertilizer, to scarified surface prior to installation of the ARMORMAX® 75. A site specific soil test should be performed to help determine what soil amendments, such as lime and fertilizer, need to be incorporated into the soil to promote healthy vegetation.
  - Once installed, ARMORMAX® 75 shall be hydroseeded with the remaining 40% of the seed mixture.
  - Irrigate as necessary to establish and maintain vegetation. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding. When watering seeded areas, use a fine spray to prevent erosion of seeds or soil. Do not over irrigate.
- BEFORE INSTALLATION BEGINS**
- Coordinate with a Propex Representative: A pre-construction meeting is suggested with the construction team and a representative from Propex. This meeting should be scheduled by the contractor with at least a two week notice.
  - Gather the Tools Needed: Tools that you will need to install ARMORMAX® 75 include a pair of industrial shears to cut PYRAMAT® 75, tape measure, percussion hammer (sized appropriately for the anchors), ground rod driver compatible with the percussion hammer, drive steel compatible with the anchor, setting tool to set and load-lock the anchor, and wire cutters to cut the cable tendon of the anchor. If anchors will be load tested during construction, additional testing equipment may be necessary. Consult the "Anchor Load Test Manual" from Propex for further guidance. Available for purchase from Propex are drive steel, setting tools, and wire cutters.
  - Determine how to Establish Vegetation: The method of vegetation establishment should be determined prior to the start of installation. Different vegetation establishment methods require different orders of installation. Refer to Establish Vegetation for further guidance.
  - Please consult the Propex Website for the most up to date installation guidelines.
- ALTERNATE MATERIALS**
- If an armoring solution other than ARMORMAX® 75 is used for construction, the alternative armoring solution manufacturer shall be responsible for providing an engineered solution for slope reinforcement, considering sliding shallow plane failure potential. The following documentation shall be provided to support the slope reinforcement design for the alternative engineered solution:
    - Overall Armoring Solution Design Methodology
    - Input Parameters
    - Calculations / Model Output
    - Anchor Strength
    - Anchor Length
    - Anchor Spacing (vertical & horizontal spacing)
    - Factor of Safety to support the slope reinforcement design; with the conditions analyzed and documented for the proposed project.
    - HPTRM and Anchor Sample

## SCOURLOK™ SDS CONCEPTUAL DESIGN

Please note that the information presented herein is general information only. It is for conceptual use only and not intended to be used for construction. While every effort has been made to ensure its accuracy, this information should not be used for a specific application without independent professional examination and verification of its suitability, applicability, and accuracy. This engineering drawing is protected by the Copyright Act, 17 U.S.C. §101 et seq. and may be used ONLY with the express written permission of Propex in connection with Propex products. Any copying, distributing, and/or creation of a derivative work without permission of Propex is prohibited and is subject of actual damages, statutory damages and attorney's fees under the Copyright Act.

SCOURLOK™ INSTALLATION DETAILS

Date: 06/04/2018 Drawn By: D. LOIZEAUX Scale: NTS

\*ALL DIMENSIONS ARE TO BE VERIFIED BY ENGINEER OF RECORD

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Rev

ANCHOR/PIN SCHEDULE		
SECURING DEVICE	ANCHOR	PIN
HORIZONTAL ANCHOR SPACING	SEE NOTE 12	2.0 ft (60 cm)
VERTICAL ANCHOR SPACING	SEE NOTE 12	2.5 ft (75 cm)
EMBEDMENT DEPTH	SEE NOTE 12	1.5 ft (45 cm)