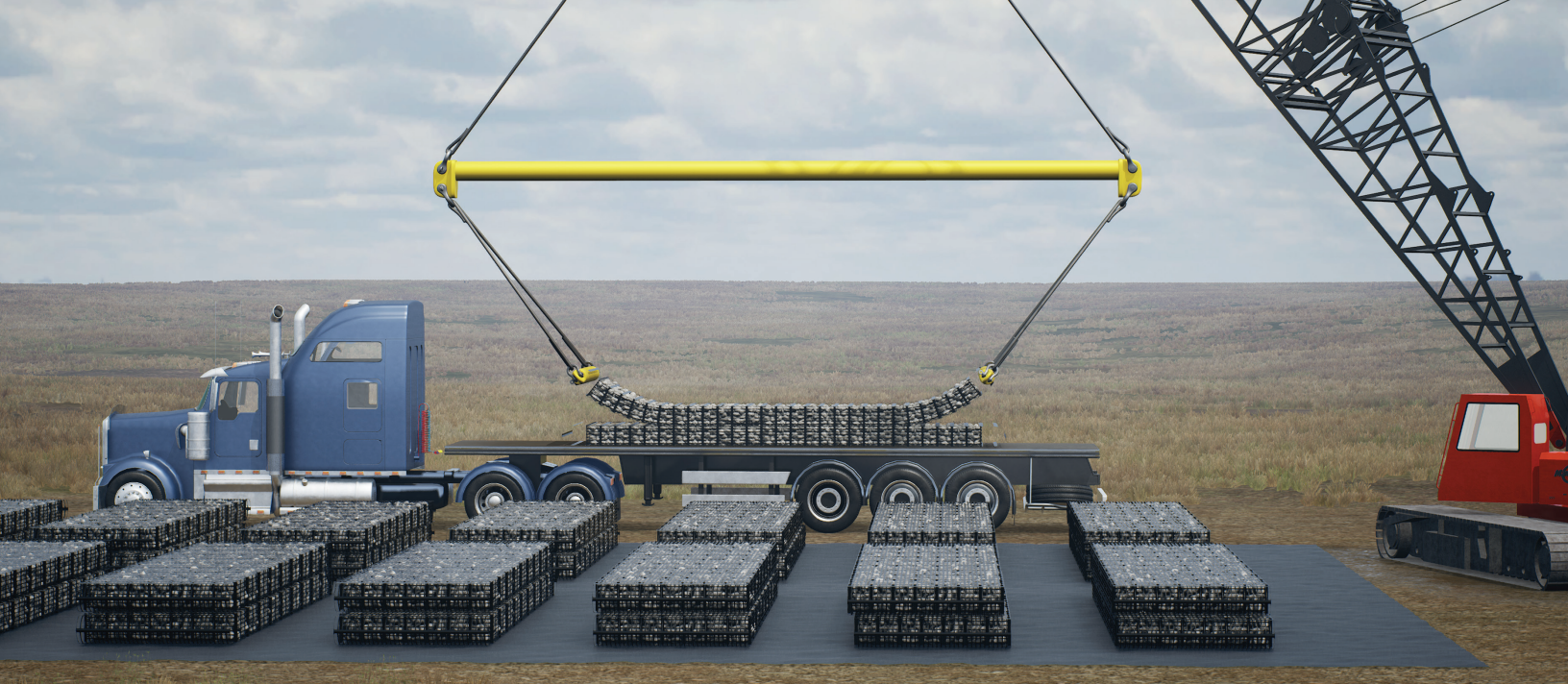


BASELOK™

BY INDUSTRIAL FABRICS, INC.

Shoreline, Coastal & Waterway
Overview

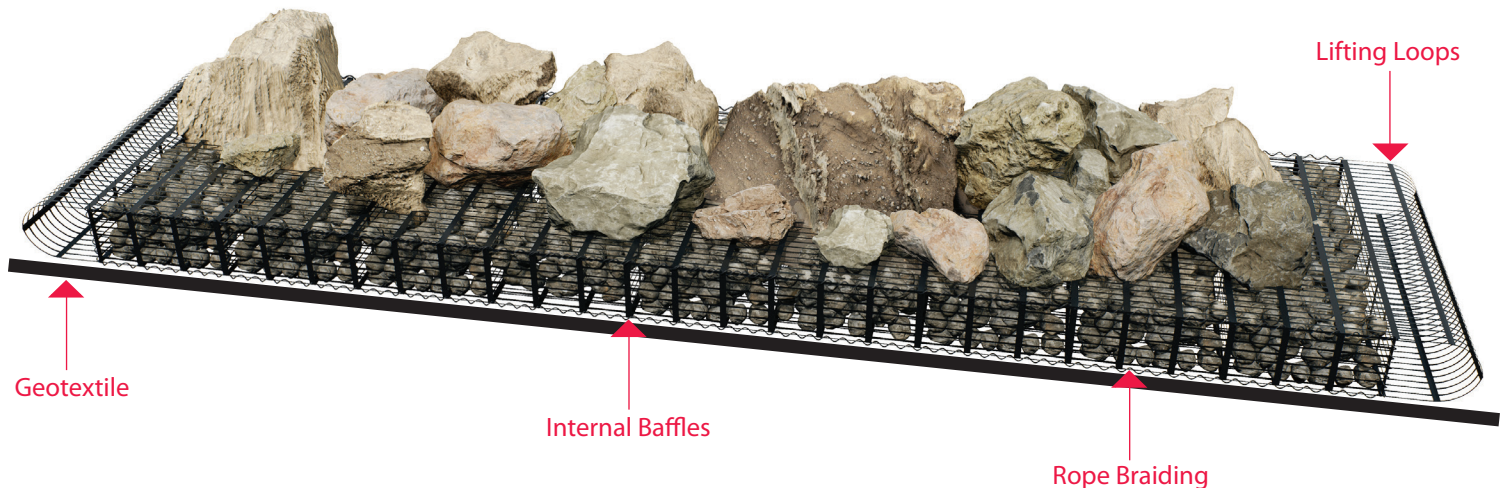
MARINE

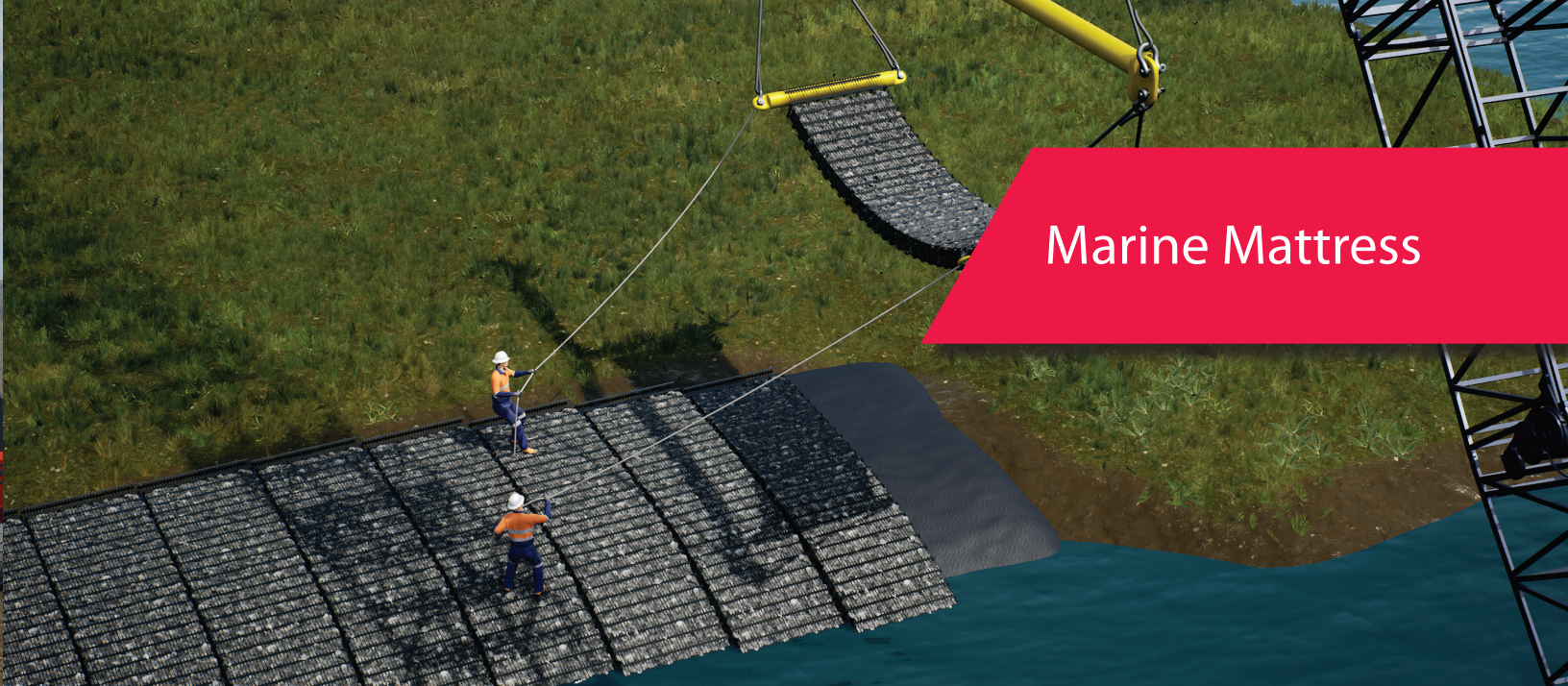


BASELOK™ MARINE MATTRESSES

When dealing with construction projects in or around water, BaseLok™ by Industrial Fabrics, Inc. technologies showcase a line of dependable composite marine structures. BaseLok™ solutions incorporate top-quality geogrids and geotextiles to create products designed to enhance the constructability and longevity of shoreline, coastal, and waterway marine structures.

- **SHORELINE PROTECTION**
- **CHANNEL LINING**
- **FOUNDATIONS FOR BREAKWATERS, GROINS, ETC.**
- **CAUSEWAY, LEVEE, AND DIKE PROTECTION**
- **BRIDGE PIER AND ABUTMENT SCOUR PROTECTION**
- **RIVER BANK EROSION CONTROL**
- **IN SITU CAPPING OF CONTAMINATED SEDIMENTS**





Marine Mattress

With enhanced hydraulic capabilities and superior engineering, BaseLok™ solutions diminish costs in comparison to other alternatives. The flexibility of BaseLok™ Marine Mattresses allow them to bend to the contour of the project's subgrade, providing superior scour protection compared to other manufactured revetments. BaseLok™ Marine Mattresses are specifically designed to resist degradation from chemical, biological, and environmental factors, making them optimal for use in salt water exposure, industrial runoff, and sediment remediation projects.

BaseLok™ Solution Components

- **Marine Mattress**
- **Filter Mattress**
- **Gabion/Gabion Mats**
- **Grid Composite**
- **Coastal Foundation; Riverbank and Shoreline Revetment**
- **Bedding and Filtration; Deep Water Geotextile Installation**
- **Channel Lining and Retention Structures**
- **Riprap/Revetment Underlayer**

MARINE MATTRESS SYSTEM

The BaseLok™ Marine Mattress system is engineered to withstand harsh and perpetually changing conditions found on most coastal and waterway construction projects.

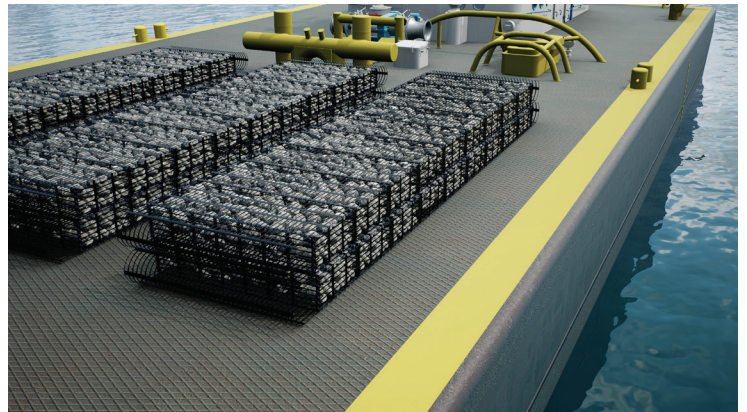
BaseLok™ efficiency is a direct result of its superior engineering:

- **Durability, flexibility, mass, and porosity**
- **Hydraulic stability**
- **Wave energy absorption**
- **BaseLok™ Marine Mattresses are a composite solution for revetment purposes, such as scour protection and channel linings. They are specifically designed to combat substantial erosive forces under each of the following circumstances:**
 - Saltwater and high chemical environments
 - Obscure subgrade surfaces or soft subgrade soils
 - Steep slopes, stream or canal banks
 - Hydraulic conditions jeopardizing a mat's exposed edge
 - Emergency repairs

Applications



- > Coastal shoreline revetment
- > Underlayer for coastal structures
- > Groins, breakwaters, and jetties
- > Bridge, culvert, and outfall scour protection
- > Waterway erosion protection
- > Riverbanks, canal linings, and channel linings





BaseLok™ Marine Mattresses can also be utilized for stabilizing underwater foundations. Quick and comprehensive installation coupled with versatility make BaseLok™ Marine Mattresses a dependable and cost-effective solution for underwater subgrade stabilization.

BaseLok™ Filter Mattress System

Filter Mattresses were first constructed to preserve a historic structure at risk of being compromised by a deep scour hole. The main concern in these situations is holding the geotextile in place while riprap armor stone is installed. Depending on the current, geotextile may be attached to the bottom of the mattress or encased within the mattress to ensure proper placement on the subgrade. By assuring that the geotextile was at the precise location necessary, the project was accomplished. This led to the use of filter mattresses in vital underwater projects, allowing geogrid to be installed under difficult conditions.

BaseLok™ Filter Mattresses are specifically engineered to provide scour protection in difficult marine environments. The mattresses encase a geotextile fabric inside six inches of aggregate. The mattresses successfully function as an installation mechanism for geotextile and bedding stone in deeper water and high-speed currents.

Features:

- Site specific geotextile
- Various thickness options

Applications:

- Revetment foundation
- Geotextile deployment
- Coastal structure foundation



Grid Fabric Composite



Grid Fabric Composite System - Stiffness Matters

BaseLok™ Grid Composite Systems are engineered to act as a filter layer beneath riprap and armor stone by coupling BaseLok™ GeoGrid with a geotextile. This grid composite layer helps to prevent differential settlement during construction of riprap, rubble-mound structures, and similar installations in low energy wave environments. Grid composite panel dimensions are customized to meet project dimensions.

Enhanced Protection

The practice of using a geotextile as a filtration underlayer is well embraced. However, the addition of BaseLok™ GeoGrid further optimizes product performance by:

- **Widening load distribution by using the “snowshoe effect”**
- **Protecting against scour by reinforcing the geotextile against the subgrade**
- **Preventing damage to the geotextile during the construction process**

Optimizing geotextile performance is critical for multiple applications, including:

- **Revetments**
- **Streambanks, shorelines, canals, and channels**
- **Spillways**
- **Scour protection**
- **Breakwaters, groins, and jetties**



BaseLok™ Grid Composite is a dependable solution for optimizing performance and construction under conditions such as submerged construction, soft subgrade soils, steep slopes, and jetty sand tightening.

A Cost-Conscious Solution

Enhancing service-life and overall performance is the key to BaseLok™ Grid Composite in order to minimize the need for repairs or replacements, as well as cutting up-front costs by eliminating costly layers of aggregate base and reducing the need for excavation of steep slopes and soft soils.

Gabions



Gabions and Gabion Mats

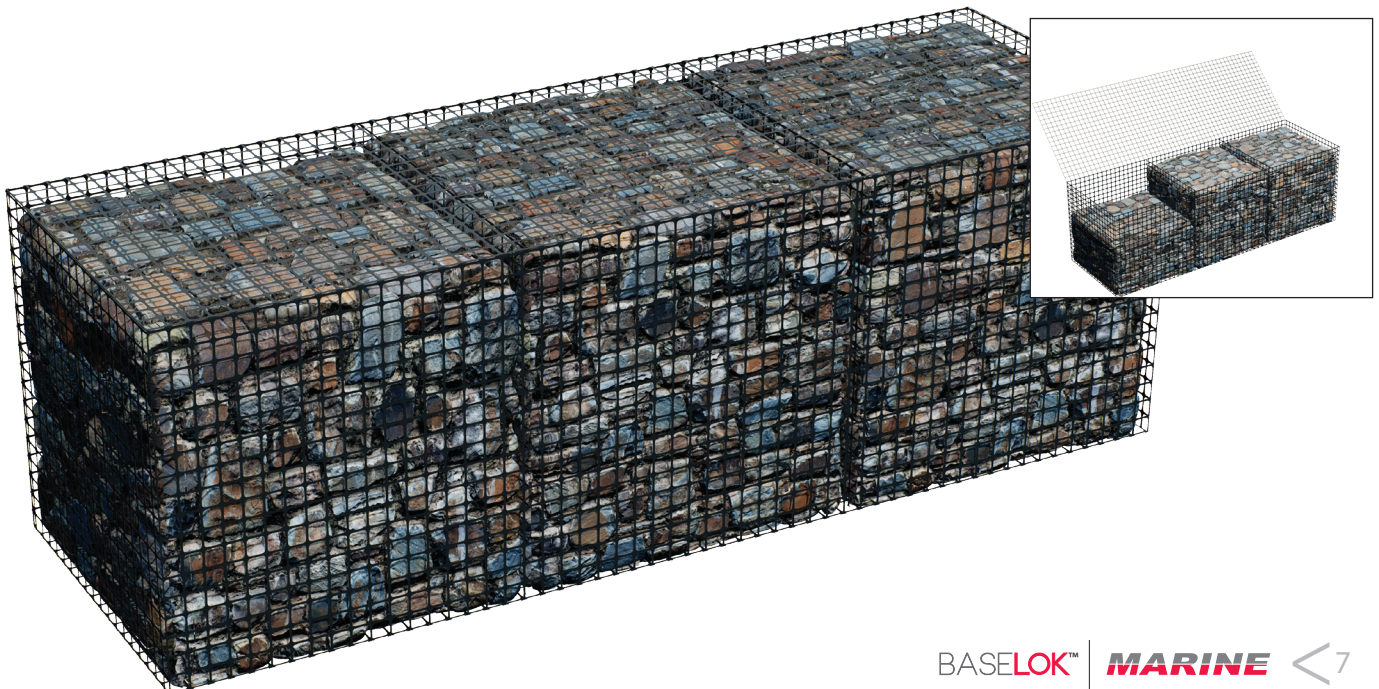
BaseLok™ Gabions are a heavy-duty, non-corrosive solution to traditional steel wire gabions in areas where corrosion is anticipated. BaseLok™ Gabions and/or Gabion Mats can be customized by size to match your project's parameters.

Applications

BaseLok™ Gabion Mats are used for:

- **Channel linings and ditches**
- **Canal and stream bank protection**
- **Spillways**

BaseLok™ Gabions and Gabion Mats are typically designed for potential high corrosion applications, including saltwater, de-icing, salt run-off, and acidic environments such as acid mine drainage. BaseLok™ lightweight design also makes the gabion mats optimal for remote access projects.



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