



# NATRX EXOFORMS™

NATURE-BASED, MODULAR COASTAL PROTECTION



# NATRX EXOFORMS: MODULAR, HABITAT-POSITIVE COASTAL RESILIENCE

## A NATURE-BASED SOLUTION PURPOSE-ENGINEERED FOR PERFORMANCE

ExoForms are precision-manufactured modules designed to stabilize shorelines, dissipate wave energy, and support thriving marine ecosystems. The naturalistic surfaces feature voids and texture that marine organisms quickly colonize, creating infrastructure that performs better over time as habitat establishes.



### WHY EXOFORMS

**Dissipates Wave Energy:** Complex geometry slows and disperses wave energy rather than reflecting it, promoting sediment capture and protecting the shoreline behind.

**Habitat-Positive by Design:** High surface area and purpose-built voids create ideal conditions for oysters, fish, crabs, and vegetation to establish and thrive.

**Performs Better Over Time:** As marine life colonizes and vegetation roots, the system gains mass and stability. ExoForms grow stronger, not weaker.

**No Anchoring Required:** ExoForms can be placed directly on soft sediments with far less bearing pressure. They conform to natural slopes and remain stable under wave overtopping.

**Installs in Days, Not Weeks:** Modular construction means fast, safe deployment with lighter equipment. One project installed units at a rate of one every 90 seconds.

**Minimal Site Disruption:** A tight footprint means less disturbance to existing habitat. ExoForms add net habitat surface area rather than displacing what's already there.

**Naturalistic Appearance:** Organic forms blend with surroundings. Projects consistently receive positive feedback on aesthetics from property owners and communities.

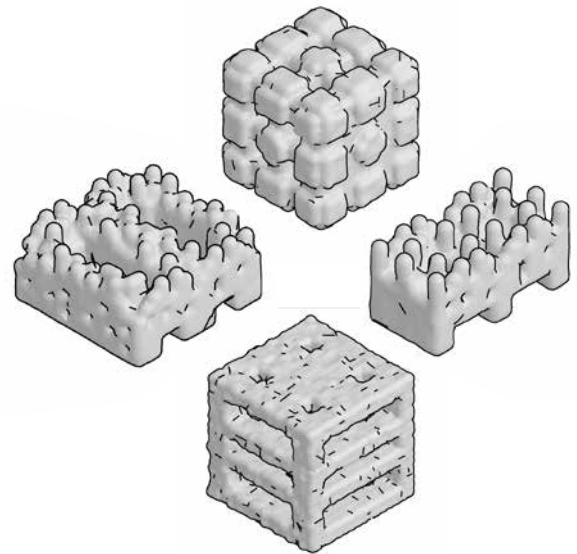
**Proven Performance:** ExoForms have been tested through multiple hurricane seasons and continue to perform. Over 115,000 units deployed across 75+ projects globally.



## MODULAR DESIGN, MAXIMUM FLEXIBILITY

Engineered to work with nature, ExoForms deliver:

- Geometries that dissipate wave energy and capture sediment
- Textured surfaces marine organisms quickly colonize
- Purpose-built voids for water exchange and habitat
- Various shapes and sizes to fit site and aesthetic requirements
- Stability on soft soils without anchoring
- Built-in handling features for safe, efficient placement



## LIVING SHORELINE SUCCESS EAST RIVER, PORT HAYWOOD, VIRGINIA



Modular ExoForms installed in less than one week to stabilize an eroding residential shoreline while maintaining natural water-to-marsh transition.



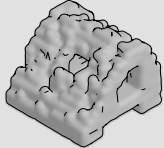
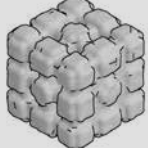
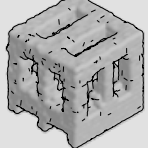


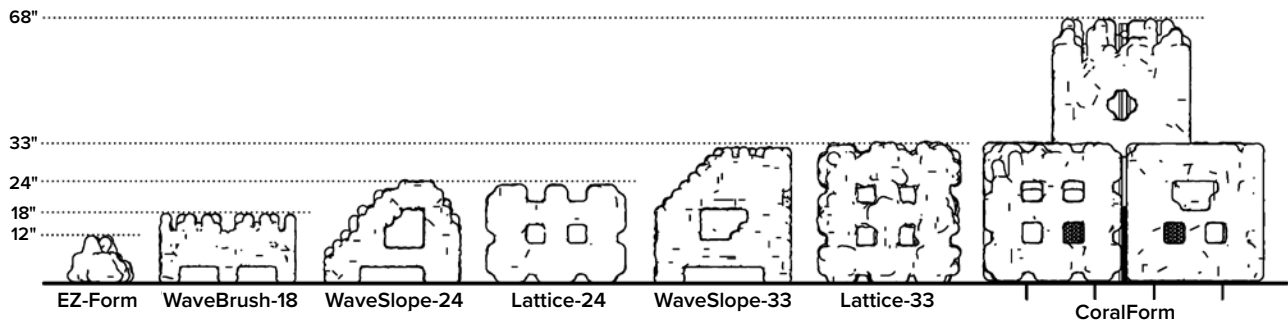
### RESULTS

- Shoreline stabilized
- Oysters and marine life visible within one year
- Naturalistic appearance blends with surroundings
- Healthy water exchange achieved

## EXOFORM FAMILIES

ExoForms come in several families, each engineered for different environments and applications. From hand-deployable units for sensitive shorelines to large-scale modules for high-energy environments, there's an ExoForm solution for a wide range of coastal and marine projects.

| <b>EZ-FORM™</b><br>40–135 lbs   | <b>WAVEBRUSH™</b><br>500–1,000 lbs  | <b>WAVESLOPE™</b><br>1,200–2,000 lbs   | <b>LATTICE™</b><br>1,200–2,000 lbs  | <b>HABITAT™</b><br>1,000–10,000 lbs   |
|---|---|--|---|---|
|    |    |   |    |    |
| <p><b>Hand-deployable shoreline stability that supports vegetation growth.</b></p> <p>Lightweight, interlocking units that follow natural contours, slow water, and support vegetation. Ideal for sensitive areas and locations where heavy equipment can't reach. Compact size makes it perfect for community engagement projects.</p> | <p><b>Low-profile wave control that traps sediment and expands habitat.</b></p> <p>A low-relief solution for shallow, low-energy waters. Slows waves, captures sediment, and stabilizes soft banks while expanding habitat. Modular design allows placement close to shore with minimal bottom disturbance.</p> | <p><b>Powerful wave reduction with natural aesthetics and habitat surface.</b></p> <p>Sloped design for energetic shorelines. Stabilizes banks, contains fill, and creates high-value habitat surface. Natural appearance blends into the landscape while delivering effective wave reduction.</p> | <p><b>Modular shoreline and riverine protection with extensive habitat surface.</b></p> <p>Durable protection for medium-energy sites, riverbanks, and infrastructure. Open lattice design slows water and stabilizes soils while providing extensive surface area for ecological growth.</p> | <p><b>Durable, nature-positive resilience structures that boost biodiversity.</b></p> <p>Purpose-built for reef restoration, fisheries enhancement, and large-scale habitat creation. Includes Crabitat™, FishHouse™, and CoralForm™, each designed to provide refuge and support thriving marine ecosystems.</p> |



## APPLICATIONS

- Living shorelines
- Erosion control (coastal and riverine)
- Storm and hurricane recovery
- Fisheries and marine conservation
- Artificial reefs
- Marinas and waterfront development
- Oyster and coral restoration
- Levee and infrastructure protection
- Wetland and marsh stabilization
- Mitigation projects



For more information, ask a Ferguson Engineered Solutions Specialist or visit us online at [fergusonwaterworks.com](https://www.fergusonwaterworks.com)

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