



Habitat Restoration Materials Catalogue

General Information

Marine Discovery Center (MDC) is a 501(c)3 non-profit that strives to protect coastal ecosystems and provide habitat restoration materials for conservation organizations along the Indian River Lagoon and beyond. MDC implements community-based restoration practices that involve public volunteers in the creation and maintenance of materials.

Payment Options

Marine Discovery Center accepts payment in the form of cash, check, or credit card. If you require an invoice in order to complete payment, please indicate on order form.

Order Requirements

- Order forms must be filled out in entirety
- Submission of permits and project scope contracts must be completed
- Any questions, concerns, or additional comments must be communicated with the Conservation Science Coordinator via email: tess@marinediscoverycenter.org

Terms & Conditions

- Request for materials must be submitted with a 90-day notice and any changes to original order will require a full 90-day lead time.
- Pricing and availability are subject to change

LIVING SHORELINE STABILIZATION

POSH modules



Materials

pH-balanced cement and recycled oyster shell. Cured oyster shells are mixed with cement, then poured into form.

Application

Living Shoreline stabilization in intertidal zone for target 20-40% daily exposure with vegetation (i.e. smooth cordgrass, mangroves, etc.) planted landward. Perimeter for degraded oyster reefs. High energy zones.

Pricing

\$30/unit

Goal

Wavebreak; accrete sediment overtime (increasing slope), allow planted vegetation to establish; provide substrate for organisms to settle, forage, and find protection.

UNIT SPECIFICATIONS*: 0.5m diameter, 0.3m height, 45lbs

[*subject to vary]

Cement-jute volcanoes



Materials

pH balanced cement and jute erosion control material. Water-saturated jute pieces are coated in cement mixture, then formed around mold.

Application

Living Shoreline methods, perimeter for oyster reef restoration sites. Low to medium energy zones.

Pricing

\$30/unit

Goal

Wavebreak; accrete sediment overtime (increasing slope), allow planted vegetation to establish, provide substrate for organisms to settle, forage, and find protection.

UNIT SPECIFICATIONS*: 0.5m diameter, 0.3m height, 30lbs

[*subject to vary]

OYSTER REEF RESTORATION

BESE Mats



Materials

BESE elements (interlocking mats made of potato starch waste and other biopolymers) with 30-36 cured and drilled oyster shells attached using stainless steel zip ties.

Application

Mats are placed in appropriate tidal range to support oyster recruitment. Mats can be deployed in a grid format with spaces in between mats to allow for anchoring/weights and access for monitoring.

Pricing

\$35/unit

Goal

3-5 years of intertidal oyster recruitment substrate, habitat remains after mat material biodegrades.

UNIT SPECIFICATIONS: 0.5m x 0.5m

OYSTER SHELL



Shuck & Share oyster recycling program collects shells from Volusia County restaurants each week. Shell is cured on Marine Discovery Center campus for a minimum of six months before use.

Pricing

\$2 per gallon
\$735 per ton

NATIVE INTERTIDAL PLANTS

Spartina alterniflora



Smooth cordgrass is available in 1 gallon pots with a planting unit of one shoot (three blades) and rhizome material.

Pricing

Available upon request.

SPECIFICATIONS: 1 gallon potted plants with soil, ~ 1.5' in height*

[*subject to vary]

Mangroves



Red, black, and white mangroves are grown from propagule to 2-3 year old trees that are well suited for restoration applications.

Pricing

Available upon request.

SPECIFICATIONS*: 1 or 3 gallon potted plants with soil, ~ 2' in height

[*subject to vary]

SEAGRASS RESTORATION

Shoal Grass *Halodule wrightii*



Widgeon Grass *Ruppia maritima*



Star Grass *Halophila engelmannii*



Unit Types

Seagrass planting units are available based on project timeline and quantity in planting unit types:

Shoots with rhizome
3" x 3" patches with sand/soil sediment mixture

RACEWAY TANK SPACE RENTAL



Availability in the Lagoon flow-through raceway system is space-limited. Capacity is based on project needs, timeline, and a Memorandum of Understanding agreed upon by Marine Discovery Center and the interested party.

Pricing

\$700/month per full 4' x 16' tank

PROJECT SERVICES

Transport

Transport of materials to staging or restoration sites is available based on capacity. Transport costs depend on material types, total travel distance required, and staff time.

Deployment

Deployment support for restoration projects is available based on capacity. Costs depend on total travel distance required and staff time.

Monitoring

Monitoring support for restoration projects is available based on capacity. Costs depend on total travel distance required and staff time.

GALLERY

POSH



Volcanoes



BESE Mats

