



# Vegetated EcoShield®

## Product Data Sheet

### 1.0 Description

**Vegetated EcoShield®** is a shoreline protection & bank stabilization product manufactured using layers of recycled non woven matrix material that are planted with native vegetation.

### 2.0 Use

**Vegetated EcoShield®** is a proprietary erosion control product developed to attenuate wave energy for the use of shoreline protection, bank stabilization and marsh/habitat creation. It is effective at reducing wave energies along levees, berms and terraces.

### 3.0 Ideal Applications

- Shoreline Protection & Bank Stabilization of Levees, Berms & Levees
- Bank Stabilization
- Vegetation Establishment

### 4.0 Advantages

- Reduces wave erosion at shoreline
- Easy to Install
- Creates Living Shoreline

### 5.0 Physical Properties

Matrix Properties	Value
Thickness*	10 inches
Weight (10" thick/15lb. buoyancy)	2 lb./ft <sup>2</sup>
Color	Brown
Matrix Tensile	20 lb./ in. (1 layer)
Matrix Tear	20 lb./ in. (1 layer)
Matrix Fiber Type	100% Recycled Polyethylene terephthalate (PET)
Matrix Binder System	Cross Linkable Water Based Latex
Binder Application	Spray/Thermal Bond

\*Thickness is approximate. Each layer of matrix is approximately 2" thick. Compression during manufacture may decrease thickness slightly.

### 6.0 Sizes

**Vegetated EcoShield®** come in 3 layered configurations:

- 2 Layer
- 3 Layer
- 4 Layer

## 7.0 Vegetation

Both aquatic and terrestrial vegetation can be planted and grown hydroponically in **Vegetated EcoShield®**. Native or local plants are recommended.

## 8.0 Limitations

Engineered anchoring design for **Vegetated EcoShield®** should be considered in high wind and wave locations. Consult **Martin Ecosystems** with specific questions or concerns.

## 9.0 Environmental Safety

- The matrix is manufactured with 100% recycled Polyethylene terephthalate (PET) plastic drinking bottles. Water Based Latex Resins are used in the matrix manufacturing process. No phenol-formaldehyde resins are used in the binding process. The matrix has been tested and was found to be non-toxic to aquatic life.
- The polyester matrix fibers (PET) are non-reactive and resistant to attack by micro-organisms. PET is inert, won't biologically degrade and will not leach. PET is also inherently more UV resistant than other plastics, like polypropylene, because of its molecular structure.

## 10.0 Green Initiative

- Polyester fiber used in our matrix material comes from 100% recycled PET plastic drinking bottles.
- Every 1 square foot of 2" thick matrix is manufactured using 3 (16.9 oz) plastic bottles.

## 11.0 Safety

Basic safety for personal protection is:

- Wear long sleeves and/or gloves when handling to avoid skin scratching and abrasions.
- Do not put or use near high heat or open flames.

## 12.0 Technical Services

Contact **Martin Ecosystems** for Sales and Customer Support 225-292-6750

## 13.0 Warranty

**Martin Ecosystems** will refund the price of or replace the matrix layers, at its election, this product to the original purchaser, if it finds to be defective of materials and or workmanship, provided the product has been used properly. Except as stated above, the company makes no warranty of damage caused by the owner modifying, attempting to fix or otherwise altering the product from its original embodiment and no warranty of installation of product. This warranty lasts for one (1) year from the date of original purchase. This warranty covers the original purchaser and is not transferrable. In no event shall the company be responsible for damage to or loss in shipment. This limited warranty does not insure the product during shipment. This warranty is the sole and exclusive warranty. No employee, agent, dealer, or other person is authorized to alter this warranty or make any other warranty on behalf of Martin Ecosystems. No Other Express Warranty Applies. Martin Ecosystems shall not be responsible for any incidental or consequential damages. Some states do not allow the limitation or exclusion of relief, incidental, consequential, special or indirect damages, or the limitation of liability to special amounts, so the above limitations or exclusions may not apply to you. **This warranty does not include vegetation.**