

Applications

Structural applications for Envirotubes include but are not limited to:

- Storm event protection for beaches, shorelines, marshes, wetlands, islands, etc.
- Protection from erosion caused by waves and wake.
- Restoring and creating islands.
- Creating peninsulas to re-direct river channels.
- Prevent scouring and erosion of river banks.
- Re-enforcing seawalls and armored shorelines.
- Flood event protection.
- Coring dikes, levees, and earthen dams.
- Creating stilling ponds for construction runoff water release.
- Constructing breakwaters for marinas and entrances.
- Re-enforcing and repairing dikes for holding and aerating lagoons.
- Creating off-shore spoil areas.

Choosing & Sizing



Envirotubes are sized for each application. This will depend on the protection or structure needed. The size and design requirements will be given in each application section.

Contact your Envirotubes™ Technical Representative for design support.

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Choosing & Sizing

Beach Dunes



The following sections address the preparation and placement of the Envirotubes™ as well as the filling procedure.

These guidelines do not purport to address the safety issues associated with the use of Envirotubes™ and or Envirotube™ systems, including the use or handling of hazardous materials, mechanical equipment and operations.

It is the responsibility of the contractor to establish and adopt appropriate safety and health practices. Also the contractor shall comply with prevalent regulatory codes such as OSHA regulations while using these guidelines.

BEACH DUNES FOR STORM EVENT PROTECTION

These are installed on the dry beach away from the water. The regulations governing these installations varies from state to state but the application procedures and protection needed is fairly constant. In many cases the application is designed by engineers as a first time project and no experience with the application or installation procedures.

Many of the “text book” procedures are outdated and have been improved upon with experience and history.

These tubes are usually 30’ circumference filled to 5’ finished height.

The anchor tubes on the scour apron are usually from 4’ circumference to 7’ circumference. The scour apron usually extends half the circumference of the tube.