

Coastal and Marine Engineering applications include:

- Coastal Protection
- Waterway Protection
- Dams & Levees
- Ports & Harbors



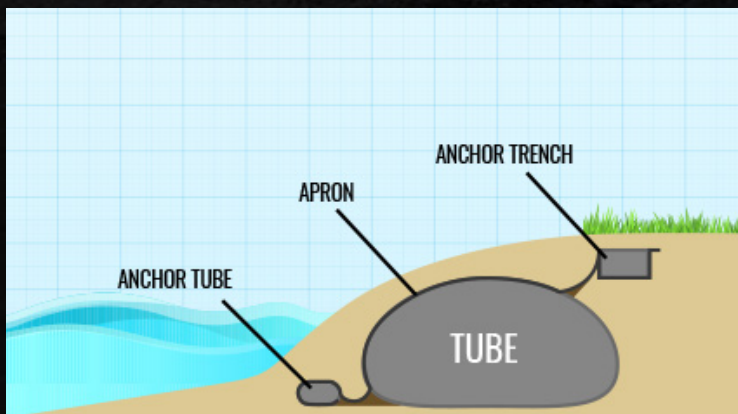
WINFAB Geotextile Tubes as Marine Structures:

WINFAB Geotextile Tubes and Geo-synthetics are used in construction and protection of Marine Engineered Structures and Coastal Management.

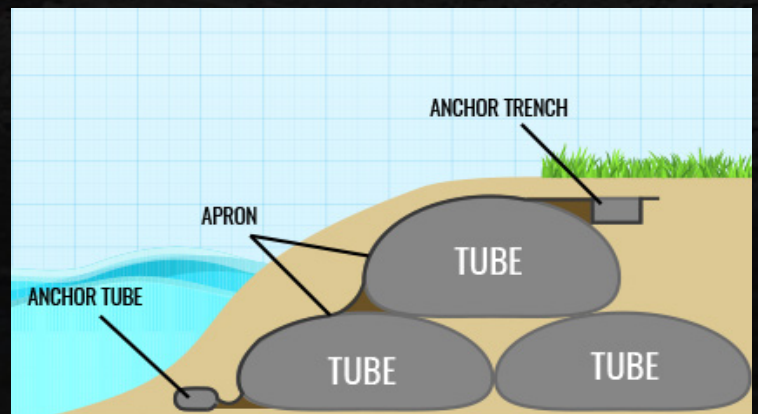
WINFAB products are environmentally friendly, flexible and provide reliable, cost effective solutions to battle the effects of erosion. Coastal Protection is used to prevent coastline erosion and retreat to preserve natural landscapes, protect housing and infrastructure, thus providing good Coastal Management.

Waterway Protection prevents erosion and shoreline retreat of any of the waters. Dams and Levees are used to prevent flooding, storage of water, enable easier construction and to provide protection from storm activity. Ports and Harbors provide locations where ships can dock, transfer cargo and provide shelter.

Apron can protect scour, UV, or an HP-TRM can be used to establish plant growth.



Shoreline Protection Tube



Design Flexibility Based on Application

WINFAB Geotextile Tubes function to act as:

Breakwaters - Built out into a body of water to protect a coast or harbor from the force of waves.

Dikes - Onshore structures with the principal function of protecting low-lying areas against flooding. Sea dikes are usually built to reduce the wave run up and the erodible effect of the waves.

Revetments - Placed to absorb the energy of incoming water.

Scour Protection - Protect against hydrodynamic, tidal and bridge scour. Scour, caused by swiftly moving water, can scoop out scour holes, compromising the integrity of a structure. It is a notable problem with marine structures supported by the seabed in areas of significant tidal and ocean current.


Groynes - A groyne, built perpendicular to the shore, is a rigid hydraulic structure built from an ocean that interrupts water flow and limits the movement of sediment.

Land Creation - Artificial islands or land created by incidental isolation.

WINFAB Geotextile Tubes Advantages include:

- **Construction cost efficiency** - Less manufacturing, transportation, and placement cost.
- **Faster implementation/implementation** - Over conventional technologies.
- **Greener solution** - Colored to blend into the natural landscape, and then covered with plant life on top of the tube.
- **Longer lifespan** - Typically withstanding the rigors of nature better than traditional “hard” solutions.

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