

Geotube® Shoreline Protection Is An Effective Fix For Hurricane Beach Damage

Excavation Contractors Use Geotube® Containment Technology to Repair Erosion, Keep Homes from Destruction.

There are thousands of coastal homes threatened by natural disasters.

The recent strong hurricane seasons have eroded away many beaches, and shoreline homes that once had views of long stretches of sand now find they overlook dropoffs that are perilously close to their back doors.

Many homes are, in fact, lost each year to beach erosion. But there is a simple, cost-effective solution for repairing beaches, one that has been proven by over 20 years of use in applications around the world.

TenCate develops and produces materials that function to increase performance, reduce cost and deliver measurable results by working with our customers to provide advanced solutions. Geotube® geocontainment technology has been used in scores of countries to rebuild beaches, protect property, create jetties, and even build entire islands. The process is simple: a large tube made of a specially engineered textile is filled with sand and buried under the beach. When rough weather threatens, the tube holds the sand and soil in place, preventing erosion and property damage.

Geotube® geocontainment technology uses units of geotextile containers up to hundreds of feet in length. In most cases, installation is permanent—and invisible.

In fact, one of the advantages of Geotube® geocontainment technology is that the gentle original slope of the beach can be recreated. This improves the aesthetics of the shoreline and also aids wildlife.



Before and After: A Florida beachfront so damaged by recent hurricanes that a Geotube® unit was needed to save homes, and (after) recreation following the installation of Geotube® geocontainment technology.

Geotube® geocontainment technology has been successfully used to protect some of the world's most expensive property. For example, erosion threatened Atlantic City's famous

Boardwalk. Hurricanes cut away so much of the sand that waves were literally washing
(More)



Geotube® geocontainment technology in action. Hurricane force winds and water eroded away the sand in front of the unit, but it held fast.

over the Boardwalk itself. But with Geotube® geocontainment technology installed to stop erosion and allow the sand to build upon itself, there is now more than 150 feet of beach (complete with oat-covered dunes) between the Boardwalk and the beach. This project has been in place for over 10 years, and is still doing its job.

The simplicity of the process lends itself well to commercial properties *and* homeowner associations whose members are looking for solutions to erosion problems. Homeowner associations can help coordinate efforts between members for proper shoreline protection using geocontainment technology.



Geotube® GT 500 containment fabric

"It is very easy for a properly trained excavation contractor to install Geotube® geocontainment technology," notes Ed Trainer, Business Development Manager for TenCate, manufacturer of Geotube® geocontainment technology. "Jobs can be installed quickly and effectively."

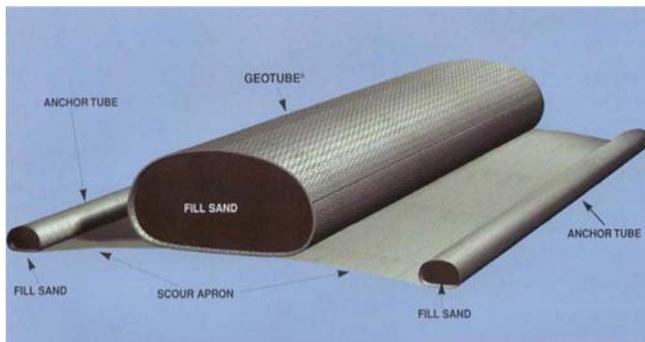
In many coastal areas, temporary permits are now in place that allow immediate installation of Geotube® geocontainment technology to protect homes that are in danger. TenCate Geotube can help homeowner associations get in touch with qualified contractors so that work can begin quickly.

Something else that should put property owners at ease is the fact that Geotube® geocontainment technology is made by TenCate is a 300-year-old Dutch firm with a long history of shoreline management and protection. TenCate's experience with managing the destructive forces of water includes providing products and expertise to maintain that country's famed series of dikes.

"We have scores of successful installations all over the world, for projects large and small," Trainer said. "A sad but true story is a gentleman who refused to have a Geotube® unit installed under the sand in front of his beachfront home, concerned that it would impede his view.

"We have photos that show how the beach ultimately eroded away until his home had to be condemned, while the homes protected by Geotube® geocontainment technology were still intact. This catastrophe could easily have been avoided."

To learn more, call 1-888-795-0808 or visit www.geotube.com.



Geotube® geocontainment technology installed in a sand dune core. An apron protects the tube and allows a more gradual beach gradient.

Geotube® is a registered trademark of TenCate Geosynthetics North America

Geotube® Geocontainment Technology Applications

Sand Dune Cores

Wetlands Creation

Breakwaters

Jetties

Underwater Structures

Diversion Dikes

Island Creation



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