

# PROJECT PROFILE

Harkers Island, NC

## CAPE LOOKOUT DURAFIBER® BUILDINGS

The National Park Service specified three unique buildings for campground renovations at Cape Lookout National Seashore in North Carolina: a 12'W × 28'L × 12'H structure for an AdvanTex® wastewater treatment system, a 17'W × 20'L × 9'H structure for water tanks and pump equipment, and a 17'W × 20'L × 9'H structure for batteries and solar equipment. To keep the buildings above the flood line, they were specified to sit on flow-through composite platforms supported by wooden piers.

After analyzing building material types and manufacturer capabilities, engineers chose fiber-reinforced polymer (FRP) buildings from Orenco Composites. Branded DuraFiber, the buildings are strong, lightweight, and able to withstand hurricane-force winds. They're also resistant to ultraviolet light and corrosion – important features given the seaside location. Plus, web-stiffened sandwich construction allows equipment to be installed on any internal wall with no embedded wood.

Delivered by barge to the 28,500-acre barrier island park, crews towed the single-piece wastewater treatment system building across the sand to the campground. It came complete with two 12'W × 7'H Stormtite 620 steel roll-up doors hurricane-rated with additional steel reinforcement.

The pump house and solar battery house, each two-piece structures that were assembled at the marina, also arrived by barge. All three buildings, once placed on their platforms, were outfitted for their intended application by the contractor.



PHOTOS COURTESY OF AQWA

### PROJECT FEATURES

#### WASTEWATER TREATMENT BUILDING

- 12'W × 28'L × 12'H
- Hurricane-rated steel roll-up doors
- Lighting and ventilation

#### PUMP & SOLAR BUILDINGS

- 17'W × 20'L × 9'H
- Two 3-foot-wide man doors

#### DURAFIBER BUILDINGS

- LIGHTWEIGHT, STRONG
- UV- AND CORROSION-RESISTANT
- WITHSTAND HURRICANE-FORCE WINDS
- EQUIPMENT CAN BE INSTALLED ON ANY INTERNAL WALL WITH NO EMBEDDED WOOD



LEADERS IN FIBERGLASS MANUFACTURING



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