Fender Rehabilitation
Route 3 Over Piankatank River, VA

Location
Route 3 Over Piankatank River, VA

Length
38 feet (116 piles)

Profiles Utilized
SUPERPILE® TU460
(16” x 1/2” Pipe Pile)

Installation Method
5,000 lb. Air Hammer, Vulcan 01-3’ stroke

Owner
Virginia Department of Transportation

Contractor
Crofton Industries

Sales Channel
Lee Composites, Inc.

Project Description
Creative Pultrusions, Inc. (CPI) teamed with Crofton Industries to supply 16” diameter Fiberglass Pipe Piles for the construction of a bridge pier fender system for Virginia DOT. The project involved value engineering the Fiberglass Pipe Piles into the project. The value engineering process required a full Pile Dynamic Analysis (PDA), full section testing and the verification of material properties and energy absorption capabilities of the Pultruded FRP SUPERPILE®. The 116 piles were utilized to replace a deteriorated wood fender system that had succumbed to the harsh marine environment.

Creative addressed all material related questions and concerns brought about by the Engineer of Record and VA-DOT engineering. In fact, they provided piles so that a PDA could be performed on the 16” dia. FRP SUPERPILE®. The PDA eliminated all concerns and questions that Crofton and the Engineering firm had with regards to installation and connection details.

Not only did Creative supply a quality product at a fair price, they stood behind us through the entire project. The engineering team at CPI made my life easier and saved Crofton money in the process.

“Upon award of the bid, Crofton knew that choosing the right supplier for the FRP piles was critical in order to get value engineering proposal approval by the project start date. Creative was the best choice since they have done extensive testing, are listed on multiple state’s Qualified Products Lists and have the engineering support to assist in securing this approval.

HIGH STRENGTH
Stronger than steel.

LIGHTWEIGHT
70% Lighter than steel.

CORROSION RESISTANT
Increased service life and low maintenance.

~Brad Gribble
Crofton Industries