



Fender Rehabilitation Route 3 Over Piankatank River, VA



Finished Application

“ 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.

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.”

~Brad Gribble
Crofton Industries

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.

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.

HIGH STRENGTH

Stronger than steel.

LIGHTWEIGHT

70% Lighter than steel.

CORROSION RESISTANT

Increased service life
and low maintenance.