SuperLoc™ Composite Sheet Pile Installation Profile

Location: Swansea, Massachusetts


Contractor Location: Swansea, MA

Installation Style: Water Jetting Equipment

Design: Soil conditions were sandy clay. Exposure approximately 4-1/2 feet. Length of sheets were 8 ft. Concrete blocks were drilled and epoxied, SuperRod™ was attached and then the wall was installed. Concrete mix with rebar was poured behind the wall. To ensure long term performance, the complete fiberglass composite sheet pile system, including sheet pile, waler, cap and tie rod system was used. Other seawall products were rejected due to poor long term performance and durability.

Manufacturer: Creative Pultrusions, Inc.

Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

**Location:** Martinez, California

**Span and Width:** Approximately 400 lineal feet of seawall using SuperLoc™ Series 1560 Fiberglass Composite Sheet Pile, SuperWale™ Fiberglass Waler, Light SuperCap™ Top Cap, and SuperRod™/Dome Nut Fiberglass Tie Rod System.

**Contractor Location:** Pleasanton and Benicia, CA

**Installation Style:** Vibratory Equipment was used.

**Design:** Soil conditions were rocky sandy clay. Exposure approximately 9 ft. Length of sheets were 19 ft. Complete fiberglass composite sheet pile, waler, cap, tie rod and deadman system were used for long term performance. Other seawall products were rejected due to poor long term performance and durability.

**Manufacturer:** Creative Pultrusions, Inc.

**Construction:** Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Location: San Diego, California


Contractor Location: San Diego, California

Installation Style: Water Jet and vibratory equipment were used. The fiberglass sheet pile and walers, injection ports and plastic lumber spacers, were pre-assembled in panel sections on land and lifted by aerial crane for assembly in front of deteriorated concrete seawall. Upon assembly (interlocking of panels) and attachment of fiberglass threaded rod/nut into concrete wall/fiberglass sheet pile and waler, grout was injected into port holes from bottom upwards in lifts.

Design: Soil conditions were medium dense sand. Exposure of wall varied. Length of sheets varied from 5 ft. to 22 ft. Complete fiberglass composite sheet pile, waler and tie rod were used for long term performance. Other seawall products were rejected due to poor long term performance and durability.

Manufacturer: Creative Pultrusions, Inc.

Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile Installation Profile

Location: Wilmington, North Carolina


Contractor Location: Morehead City, NC

Installation Style: Vibratory compactor plate hung from excavator stationed on floating barge in canal.

Design: Soil conditions were medium dense sand and sandy clay. Exposure of wall approximately 9 ft. Length of sheets both 19 ft. and 22 ft. Complete composite sheet pile, waler and cap system used for long term performance. Other seawall products such as pvc, aluminum, concrete and wood were rejected due to poor long term performance and durability.

Manufacturer: Creative Pultrusions, Inc.

Construction: Pultruded fiber reinforced polymer composite

- Product Testimonial on Back

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Product Testimonial

-Tony Hughes,  Masonboro Harbour Drive Home Owners Association

Masonboro Harbour Drive Homeowners Association (HOA) has just completed installation of 900 linear feet of new bulkhead. The condition assessment of our existing wooden walls and new bulkhead designs were done by a consulting firm in Wilmington, North Carolina and the General Contractor and installation crew for the project were from Morehead City, North Carolina.

In selecting a bulkhead material for this project, we considered vinyl and fiberglass sheet piling as being the only cost effective materials with a superior longevity to wood. We ruled out wood because our existing bulkheads in the channel have only lasted 15 years and the breakwater had to be replaced 5 years ago. Of the two synthetic materials, it was apparent that vinyl sheet piling has been on the market much longer, is more widely promoted and used in comparison to composite fiberglass. However, we chose SuperLoc™ composite fiberglass for our project for four reasons:

1) As the project manager for the HOA, and recently retired from the chemical industry, for me there is no question that fiberglass has superior long term properties over an un-reinforced vinyl product. How do I reach this opinion? I have a Bsc. in Chemistry, a Masters in Polymer Technology (Graduate from the Plastics Institute from the National College of Rubber and Polymer Technology) and I spent 30 years working for BASF and Ticona, the engineering resins division of Celanese Corporation. In my various jobs, I have marketed several un-reinforced and reinforced engineering plastic raw materials into a wide range of industrial applications where we were replacing traditional materials, primarily metals. I marketed similar resin/matrix formulations as SuperLoc™ and these products can be found under trade names Celstran and Fiber-rod. In all my years of selling engineering resins into high temperature, structurally demanding applications, I have never competed with vinyl (PVC) based resin.

2) In comparing the base resin data as well as the published engineering data for the competing products, I am confident that the SuperLoc™ product will outperform the vinyl product over the long haul and that its higher heat distortion temperature, higher rigidity and fatigue strength will lead to better retention of physical properties long term.

3) The marine engineer that we selected for this project has designed walls in vinyl and has experienced a failure in a bulkhead construction using vinyl and he also strongly recommended that we select composite fiberglass for our project.

4) Lee Composites can supply a complete system of sheet piling, whaler, cap and tie rod in fiberglass which eliminates the need to mix and match different materials but also provides an aesthetically attractive installation. Although we did not use the fiberglass tie rod, we probably will do so when we repair our breakwater, which is more or less permanently submerged and tie rod corrosion has been severe with our existing system.

Installation of our bulkhead went smoothly and the contractor commented on how much easier it is to pile drive this material than other traditional and non-traditional products. I am told that this is most likely due to the superior rigidity and the comparative thinness of the sheet. Please feel free to come by and look at our marina. We are located near Monkey Junction in Wilmington, off of Masonboro Loop Road.

--Tony Hughes
SuperLoc™ Composite Sheet Pile
Installation Profile

Elevated Bridge Approach
Southampton, New York

Location: Elevated bridge over railroad, Southampton, New York
Span and Width: Approximately 120 lineal feet requiring 16 ft., 13 ft., 12 ft., and 10 ft. lengths of Series 1560 SuperLoc™ Heavy Duty Sheet Pile with SuperCap™ Top Cap
Contractor Location: Southampton, New York
Installation Style: Vibro-drive hammer system.
Design: Used wood waler and metal tie rods secured from one wall to the other wall.
Exposure of wall approximately 2 ft. Soil conditions - sandy loam.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Lido Isle Community Association
Newport Beach, California

Location: Newport Beach, California
Span and Width: Approximately 100 lineal feet requiring 8’ lengths of Series 1540 SuperLoc™ Sheet Pile with SuperCap™ Top Cap.
Contractor Location: Newport Beach, California
Installation Style: Vibro-drive hammer system/Waterjetting Equipment
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
The Shores Development  
South Padre Island, Texas

**Location:** South Padre Island, Texas  
**Span and Width:** Approximately 2,100 lineal feet of 25,000 lineal feet total, requiring 12 ft.
lengths of Series 1550 SuperLoc™ Sheet pile with SuperCap™ aesthetic top cap, SuperWale™ fiberglass waler, and SuperRod™ fiberglass tie rod.

**Contractor Location:** Galveston, Texas  
**Installation Style:** High Pressure Water Jetting Equipment  
**Design:** Used the complete SuperLoc™ Composite Sheet Pile System, which includes sheet pile, top cap, waler and tie rod/nuts. The owner/developer considered all types of seawalls and selected the SuperLoc™Composite Sheet Pile System.  
**Exposure of wall approximately 6 feet. Soil medium dense sand.**

**Manufacturer:** Creative Pultrusions, Inc.  
**Construction:** Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Mitchell Homeowner Project
Southampton, New York

Location: Southampton, New York

Contractor Location: Southampton, New York
Installation Style: Vibro-drive hammer and high pressure water jeting equipment.
Design: Used the complete SuperLoc™ Composite Sheet Pile System, which includes sheet pile, top cap, and waler to replace a deteriorated wood wall for the main wall and boat slip. Exposure of the largest wall section approximately 7 ft. Soil conditions - sandy clay.

Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

The Glenridge on Palmer Ranch
Sarasota, Florida

Location: Sarasota, Florida

Span and Width: Approximately 2,000 lineal feet requiring 8’, 10’, and 13’ lengths of Series 1560 SuperLoc™ Sheet Pile with SuperCap™ Structural Top Cap.

Contractor Location: Sarasota, Florida

Installation Style: Vibro-drive hammer system.

Design: Used SuperLoc™ Composite Sheet Pile and Top Cap, along with continuous steel channel attached to the cap for tie back system.

Exposure of the largest section of the wall is approximately 6 ft.

Soil conditions - sandy clay.

Manufacturer: Creative Pultrusions, Inc.

Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Louisiana Department of Natural Resources
Mandalay Bank Protection Demo
Terrebonne Parish, Louisiana

Location: Intercoastal Waterway near Houma, Louisiana
Span and Width: Approximately 3,800 lineal feet requiring 20 ft. lengths
of Series 1540 SuperLoc™ Sheet Pile.
Contractor Location: Jefferson, Louisiana
Installation Style: Vibro-drive compactor plate.
Design: Used wood waler and metal tie rods secured from one wall to the other wall.
Exposure of wall approximately 5'. Soil conditions - sandy loam and clay.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Residential Home
Mattituck, New York

Location: House in Mattituck, New York
Span and Width: Approximately 90 lineal feet requiring 16 ft. lengths of Series 1550 SuperLoc™ Sheet Pile with SuperCap™ Structural Top Cap, SuperWale™ Waler and SuperRod™ Tie Rods.
Contractor Location: Mattituck, New York
Installation Style: Vibro-drive hammer system.
Design: Used a complete composite fiberglass sheet pile system (sheet pile, cap, waler and tie rods). Soil conditions - sandy loam.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Caroline County Recreation and Parks
Greensboro, Maryland

Location: Recreation and Park, Greensboro, Maryland
Span and Width: Approximately 350 lineal feet requiring 18 ft., 16 ft., 14 ft., and 10 ft. lengths of Series 1540 SuperLoc™ Sheet Pile with SuperCap™ Top Cap, SuperWale™ Waler and SuperRod™ Tie Rod.
Contractor Location: West River, Maryland
Installation Style: Vibro-drive and drop hammer system.
Design: Used a “complete fiberglass composite sheet pile system” which included sheet pile, top cap, waler adn tie rod/nuts to replace a deteriorated wood wall for the main wall and boat ramp. Exposure of wall approximately 6 ft. Soil conditions - sandy clay.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Marshall Ford Marina
Austin, Texas

Location: Marina in Austin, Texas on Lake Travis
Span and Width: Approximately 234 lineal feet requiring 18 ft., 16 ft., and 4 ft. lengths of Series 1560 SuperLoc™ Heavy Duty Sheet Pile.
Contractor Location: Austin, Texas
Installation Style: SuperLoc™ Sheet pile were interlocked, bonded, pre-drilled and partially assembled in modules of twelve pieces on land. Final assembly of modules to steel structure performed in water by marina divers and other employees.
Design: “Floating Breakwater” (Wave attenuator) constructed of coated steel structural profiles, encapsulated polyethylene foam floats, and SuperLoc™ Series 1560 Heavy Duty Sheet Pile. This “state of the art breakwater design” replaced a deteriorated wood breakwater.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite

- Product Testimonial on Back
Mr. Bob Lee, Lee Composites  
P.O. 11286,  
Spring, Texas,  
77391-1286

Composite Wave Barrier Surfaces

Dear Bob,

We felt it appropriate that we write you to relate our recent experience with your Glass Fiber Reinforced Polymer (GFRP) sheet pile sections used as a reflecting surface or barrier wall on a recent floating attenuator structure project. As you know, in this project we attached your 1560 sheet pile section to a floating wave attenuator structure of our design for use in a small craft harbor.

We have over time tried a number of materials to act as an effective wave barrier or wall mounted to a rigid floating structure. Heretofore we have of necessity gravitated to timber designs out of simple necessity. Though the systems as a whole have proven effective in controlling wave transmission, the timber barrier walls have proven to be an ongoing problematic, and ultimately expensive, element in design. In addition to being a problematic maintenance item they have often been less than effective in providing the complete barrier to wave energy that we desire. We have continued to look for a better solution.

At this point however I believe it is reasonable to say that composite materials in the form of an interlocking sheet pile may be the answer we have been looking for. With good detailing, the sections we have used offer the attraction of good structural strength and workability at a manageable weight for a floating structure. Important, they also possess attractive corrosion and durability properties for use in both fresh and saltwater applications at a reasonable cost. To us GFRP sheet pile sections, used appropriately, offer an important new engineering material for application to the design of effective and durable floating wave attenuator systems.

We look forward to using GFRP as a solution in similar circumstances in the future. I’d also like to thank you for your help in exploring GFRP and working through the use of your sheet pile sections in a novel application. Your cooperation was very helpful.

Cordially,

C. Michael Donoghue, PE  
Maritech Engineering, Inc.
Little Mineral Marina
Pottsboro, Texas

Location: Marina in Pottsboro, Texas on Lake Texoma
Span and Width: Approximately 700 shoreline feet (300 m) requiring 10 ft. lengths of Series 1540 SuperLoc™ Sheet pile.
Contractor Location: Galveston, Texas
Installation Style: Vibro-drive/hammer system and water jetting equipment.
Design: An APE 6 vibrating hammer and waterjet pump to install the sheet pile. Used one wood top waler (6x6). Exposure of wall approximately 5 ft. Soil conditions - limestone and clay.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Bobby Jones Golf Complex
Sarasota, Florida

Location: Golf Course in Sarasota, Florida
Span and Width: Approximately 200 shoreline feet requiring 16 ft. lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile.
Contractor Location: Sarasota, Florida
Installation Style: Virbro-drive/hammer system and water jetting equipment.
Design: Used one wood waler with wood cap. Exposure of wall approximately 8 ft.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite

- Product Testimonial on Back

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Wale & Retaining Wall System
August 12, 2002

Bob Lee, President
P.O. Box 11286
Spring, Texas 77391-1286

Dear Mr. Lee:

I am the General Manager of the 45 hole Bobby Jones Golf Complex in Sarasota, Florida and have recently used a product that was previously unfamiliar to me in golf course construction.

On the morning of May 17, 2002, I was notified that approximately 50’ of wooden bulkhead surrounding an island green had failed and caused a main irrigation line to separate. These two factors created a crevasse 50’ x 7’ and deposited several tons of soil into an adjoining pond.

Upon investigating the cause of the wall failure, it was determined that over a thirteen year period the underground anchors had corroded away and the frequent seasonal thunderstorms had so saturated the ground that the pressure treated timbers could not hold the weight of the wet soil. Consequently, the wooden wall gave way and much of the island green went into the bottom of the pond. It took a considerable amount of labor and 800 sandbags to stabilize the remaining portion of the green.

Several options were considered to repair or replace the 190’ of wooden bulkhead that surrounded the island green. Various material choices were considered including interlocking vinyl sheets, pressure treated wood, concrete, stone, aluminum and fiberglass panels.

After consultation with three local companies that build these retaining walls, it was determined that the issues of salvaging the remaining green, immediately starting construction, the overall height of the wall from the pond bottom to the green surface, the life expectancy of the new wall and finally the overall cost of the project were best resolved by utilizing the fiberglass panel system, in particular, the Series 1560 Heavy Duty SuperLoc™ Composite seawall panels.

Within ten days the panels and hardware had arrived at our facility and a local contractor, Custom Dock and Davit of Sarasota, had a crew removing the old wooded wall and installing the new fiberglass panels.

That was less that one month ago. Today we have an attractive new seawall completed and many complimentary comments from our golfing public. The SuperLoc™ fiberglass panels form a very attractive barrier that blends beautifully with the surrounding natural setting. It resists bowing and distortion and will be improved to weather conditions for many, many years.

In closing, I thank you for your cooperation with the City of Sarasota and this project and offer my highest praise for this fantastic new product, SuperLoc™ Composite panels.

Good luck and much success to Lee Composites, Inc. in all future endeavors.
SuperLoc™ Composite Sheet Pile
Installation Profile

Ketewomoke Yacht Club
Huntington, New York

Location: Yacht Club in Huntington, New York (Long Island)
Span and Width: Approximately 120 shoreline feet (36.57m) requiring 25ft. (7.62m) lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile
Contractor Location: Huntington Station, New York
Engineering Firm: Cashin Associates Hauppauge, New York
Installation Style: Virbro-drive/hammer system and high pressure water jetting equipment.
Design: The use of a HMC vibrating hammer along with a high pressure water jet system. Used wood walers (8x8) (200 mm x 200 mm). Soil was mainly gravel and sand. SuperLoc™ bulkhead installed in front of the deteriorated wood wall. A.B. Chance anchors were used. Exposure of wall approximately 12.5 ft. (3.81m).
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite

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**SuperLoc™ Composite Sheet Pile**
**Installation Profile**

**Grandpappy Point Marina**
**Denison, Texas**

*Partial Installation*  
*Installation - vibratory hammer*

**Location:** Marina in Denison, Texas on Lake Texoma  
**Span and Width:** Approximately 1,000 shoreline feet (300 m) requiring 20 ft. (6.10 m) lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile.  
**Contractor Location:** Galveston, Texas  
**Installation Style:** Vibro-drive/hammer system and water jetting equipment.  
**Design:** An APE 6 vibrating hammer and waterjet pump to install the sheet pile.  
Used one wood top waler (8x8) (200 mm x 200 mm). Exposure of wall approximately 9 ft. (2.7 m). Soil conditions - limestone and clay.  
**Manufacturer:** Creative Pultrusions, Inc.  
**Construction:** Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Star Fleet Marina
Clear Lake Shores, Texas

Location: Marina in Clear Lake Shores, Texas
Span and Width: Approximately 250 shoreline feet (76 m) requiring 20 ft. (6.1 m) lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile
Contractor Location: Galveston, Texas
Installation Style: Vibro-drive/hammer system and high pressure water jetting equipment.
Design: The use of a APE 6 vibrating hammer along with a high pressure water jet system. Used one wood top waler (8” x 8”) (200 mm x 200 mm). Soil was mainly hard cohesive clay. SuperLoc™ bulkhead installed in front of the deteriorated wood wall, and the new tie rods welded to existing tie rods. The old wood bulkhead was removed. Exposure of wall approximately 8 ft. (2.44 m).
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Residential Home
Socastee, South Carolina

Location: Adjacent the Intercoastal Waterway, Socastee, North Carolina
Span and Width: Approximately 120 shoreline feet (36.57 m) requiring 12 ft. (3.66 m) lengths of Series 1540 SuperLoc™ Sheet pile
Contractor Location: Surfside Beach, South Carolina
Installation Style: Vibro-drive/hammer system
Design: Use SuperLoc™ Fiberglass Cap as top waler/cap along with galvanized 3” (76.2 mm) steel channel. Exposure of wall approximately 6 feet (1.83 m). Soil conditions were sand clay with hard pan and roots.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
Hampton Marina
Hampton, Virginia

Location: Marina in Hampton, Virginia
Span and Width: Approximately 1,300 shoreline feet (400 m) requiring 16 ft. (4.88 m), 17 ft. (5.18 m), and 18 ft. (5.49 m) lengths of Series 1540 and 20 ft. (6.10 m) lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile
Contractor Location: Virginia Beach, VA
Installation Style: Vibro-drive/hammer system and compactor
Design: Used 10” x 10” (254 mm x 254 mm) wood waler, dropped approximately 1-1/2 ft. (460 mm) from top of wall with 1” (25.4 mm) diameter steel tie rods. Also 12” (305 mm) diameter face pilings approximately 6 ft. (1.8 m) apart. Soil conditions combination of sand and clay. Exposure of wall approximately 7-1/2 feet (2.3 m).
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Pirates Cove Marina
Manteo, North Carolina

Location: Marina in Manteo, North Carolina
Span and Width: Approximately 700 shoreline feet (210 m) requiring 20 ft. (6.10 m) lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile
Contractor Location: Wanchese, North Carolina
Installation Style: Vibro-drive/hammer system
Design: Used three each treated wood 6x6 (150 m x 150 m) walers and 10" (254 mm) diameter face piling, per design of marina owner. Exposure of wall approximately 12 ft. (3.6 m) Soil conditions were sand and clay with stumps and roots consistently throughout.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite

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CREATIVE PULTRUSIONS, INC.
214 Industrial Lane • Alum Bank, PA 15521
Toll-Free: 888-CPI-PULL (274-7855) • 814-839-4186 • Fax: 814-839-4276
Web site: http://www.creativepultrusions.com • E-mail: crpul@pultrude.com
SuperLoc™ Composite Sheet Pile
Installation Profile

Residential Home
Wrightsville Beach, North Carolina

Location: Pelican Drive, Wrightsville Beach, North Carolina
Span and Width: Approximately 125 shoreline feet requiring 12 ft. lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile, SuperWale™ fiberglass waler, SuperCap™ fiberglass structural top cap and SuperRod™ fiberglass tie rod.
Contractor Location: Wrightsville Beach, NC
Installation Style: Vibratory Hammer
Design: Used the complete SuperLoc™ Composite Sheet Pile System. Exposure of wall approximately 6 feet. Soil medium dense sand.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Seabrook Shipyard
Seabrook, Texas

Location: Marina in Seabrook, Texas
Span and Width: Approximately 1,000 shoreline feet (300 m) requiring 20 ft. (6.1 m) lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile and 10 ft. (3.05 m) lengths of Series 1540 SuperLoc™ Sheetpile
Contractor Location: Galveston, Texas
Installation Style: Vibro-drive/hammer system and water jetting equipment.
Design: An APE 6 vibrating hammer and waterjet pump to install the sheetpile. Used one wood top waler (8x8) (200 mm x 200 mm). Exposure of wall approximately 9 ft. (2.7 m).
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
Product Testimonial

-Richard Bachman, General Manager - Seabrook Shipyard

I would like to give you a report on our bulkhead installed in January of 2001. As you know it is your 1560 sheet pile placed within inches of a floating dock. The water depth at the bulkhead is normally 8 to 9 feet, with approximately 2 to 3 feet of exposure above the waterline. There is a steep sloping embankment behind the bulkhead to the road on the levee top. In other words, there are heavy live and dead loads on the bulkhead. There is little margin for movement and settling of the bulkhead without interfering with the operation of the floating dock. If you recall, the sheets used were 20’ long and supported by a single 8” x 8” wale with 3/4” galvanized rods and OG washers. I am very happy to report the bulkhead has remained in perfect position and not moved at all.

The sheets look the same today as they did when we first installed them, which was another reason we decided to use your product. There are no signs of weathering or deterioration as would be seen with similar wooden walls and no signs of vinyl “creep” as seen on walls observed at adjacent marinas. I feel this is a good long-term solution to our bulkheading needs and look forward to using your products in the future.

--Richard Bachman
SuperLoc™ Composite Sheet Pile
Installation Profile

Portofino Harbor Marina
Clear Lake Shores, Texas

Location: Marina in Clear Lake Shores, Texas
Span and Width: Approximately 3,000 shoreline feet (910 m) requiring 20 ft. (6.1 m) lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile
Contractor Location: Galveston, Texas
Installation Style: Vibro-drive/hammer system and high pressure water jetting equipment.
Design: The use of a APE 6 and APE 20 vibrating hammer along with a high pressure water jet system. Used one wood top waler (8x8) (200 mm x 200 mm). Soil was mainly hard cohesive clay. SuperLoc™ bulkhead installed behind the deteriorated wood wall, and the new tie rods welded to existing tie rods. The wood bulkhead was removed after the SuperLoc™ bulkhead was installed. Exposure of wall approximately 9 ft (2.7 m).
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Magnolia Bay
Waterfront Development
Biloxi, Mississippi

Location: Fords’ Residence, Magnolia Bay, Biloxi, Mississippi
Span and Width: Approximately 200 shoreline feet (61 m) requiring 32 ft. (9.75 m) lengths of Series 1560 Heavy Duty SuperLoc™ Sheet pile. Exposure of bulkhead was approximately 6 ft. (1.8 m)
Contractor Location: Long Beach, Mississippi
Installation Style: Vibratory Compactor
Design: Soil conditions were quite unstable along with extra surcharge from sloping property. The fiberglass SuperLoc™ cap along with galvanized 4 in. (102 mm) steel channels allowed for a single tie back system at top of wall using 1 in. (25.4 mm) galvanized tie rods approximately 30 ft. (9.1 m) length. Exposure of wall approximately 6 ft. (1.8 m)
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite
SuperLoc™ Composite Sheet Pile
Installation Profile

Trinity Presbyterian Church
Surfside Beach, South Carolina

Location: Glens Bay Road, Surfside Beach, South Carolina
Span and Width: Approximately 735 shoreline feet (224 m) requiring a combination of
8 ft. (2.44 m) and 10 ft. (3.05 m) lengths of sheet pile
Contractor Location: Surfside Beach, South Carolina
Installation Style: Vibro-drive/hammer system
Design: A 1,200 lb. (544 kg.) vibrating hammer with power pack, manufactured by
Pile Technology, to install the sheet piles. Used one outer
and inner waler to secure wall, along with a treated wood cap.
Soil conditions were sand clay with hardpan and roots.
Manufacturer: Creative Pultrusions, Inc.
Construction: Pultruded fiber reinforced polymer composite