



Product Catalog

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CERTIFIED INSTALLER

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Page No.

High Density Polyethylene Products

External Pile Guides	3
Internal Pile Guides	5
External Stabilizers	6
Internal Stabilizers	7
Modular Mooring Unit for Drive-On Boat Dock	9
Cube Mounted Internal Stabilizer Unit for Drive-on Boat Dock	12
Surge Protector	13

Specialty Products

Custom Pile Guides for Square Cement Piles	14
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Aluminum Products

Aluminum Frame Floating Docks	16
Aluminum Dock Ramps and Gangways	18

Appendix – Installation Instructions 20





Sea Power Marine Products, LLC External Fixed Pile Guide SPMP Part No. SPMPESG

Sea Power's External Fixed Pile Guide is made from high density polyethylene ("HDPE"). It is designed to be affixed to a floating dock, and extends outside the surface area of the dock to encircle the piles holding the dock in position. The pile guide is available in a variety of sizes to accommodate any size of round pile, and is suitable for use with any type of pile material, including treated wood, fiberglass, composite and cement.



The photographs above show the external fixed pile guide, and the pile guide in position on a floating dock encircling the adjacent pile.

There are many advantages to using HDPE for pile guides. It has exceptional strength and longevity. The surface of the pile guide is smooth, so it minimizes the friction between the guide and the pile, and eliminates any abrasion of the pile. Also, HDPE is non-leaching, so it will not harm the aquatic environment.

The HDPE pile guide can be bolted directly to the dock surface, depending on dock materials and local conditions. For a stronger installation, Sea Power recommends that it be used with an available fixed or adjustable aluminum bracket, as pictured below.

The pile guides are available in 10", 12", 14" and 16" internal dimensions. Specialty sizes are also available.







The pile guide is shown above with a fixed aluminum bracket. In this configuration, it can be bolted directly to the edge of the dock.



The pile guide is shown above with an adjustable aluminum bracket. The guide can slide within the channels of the aluminum bracket, allowing for greater adjustability when the pile guide is put in place.





Internal Pile Guide

SPMP Part No. SPMPIPG

Sea Power's Internal Pile Guide is made from high density polyethylene ("HDPE"). It is designed to be integrated internally within the deck of a floating dock, and encircles the piles holding the dock in position. The pile guide is available in 10", 12", 14" and 16" internal dimensions to accommodate a variety of sizes of round piles, and is suitable for use with any type of pile material, including treated wood, fiberglass, composite and cement. Specialty sizes are also available.





The photographs above show the fixed pile guide, and the pile guide in position on a floating dock encircling the piles holding the dock in position.

There are many advantages to using HDPE for pile guides. It has exceptional strength and longevity. The surface of the pile guide is smooth, so it minimizes the friction between the guide and the pile, and eliminates any abrasion of the pile. Also, HDPE is non-leaching, so it will not harm the aquatic environment.





Sea Power Marine Products, LLC **External Stabilizer Pile Guide** SPMP Part No.

This external stabilizer pile guide is patent protected and made of HDPE. It is designed to be used with externally placed round piles on a floating dock as shown. It is bolted to the edge of the floating dock using a fixed or adjustable aluminum bracket.

The unique HDPE collars on the top and bottom of the guide sharply limit the roll of a floating dock that might be caused by waves or a boat wake. Reducing the roll of the floating dock reduces the weakening effect that such torsional twisting will have on the integrity of the floating dock itself, thereby lengthening its useful life. It increases the safety and stability of the floating dock. This guide can be used with any type of pile material (e.g., treated wood, fiberglass, composite, cement, etc.), and is available in 10", 12", 14" and 16" internal dimensions. Specialty sizes are also available. If a matched size HDPE pipe is used to encase a wood pile, this will further reduce the roll of the floating dock because of the close fit between the pipe and the stabilizer, and will provide protection to the wood pile from shipworms and barnacles. The stabilizer guides, and matching HDPE pipe, are available in a variety of sizes. All of Sea Power's HDPE products are non-leaching (unlike treated lumber and corrosive metals), and will not harm the aquatic environment.



The photograph above shows the external stabilizer pile guide with fixed aluminum bracket bolted to the edge of a floating dock. The floating dock shown is a Sea Power aluminum framed floating dock. Such a system provides for extreme stability, longevity, and low maintenance.





Sea Power Marine Products, LLC Internal Stabilizer Pile Guide SPMP Part No. SPMPIPGS

This internal stabilizer pile guide is patent protected and made of HDPE. It is designed to be used with internally placed round piles on a floating dock as shown. The unique collars on the top and bottom of the guide sharply limit the roll of a floating dock that might be caused by waves or a boat wake. Reducing the roll of the floating dock reduces the weakening effect that such torsional twisting will have on the integrity of the floating dock itself, thereby lengthening its useful life. It increases the safety and stability of the floating dock. This guide can be used with any type of pile material (e.g., treated wood, fiberglass, composite, cement, etc.). It is available in 10", 12", 14" and 16" internal dimensions to accommodate a variety of pile sizes. Specialty sizes are also available. If a matched size HDPE pipe is used to encase a wood pile, this will further reduce the roll of the floating dock because of the close fit between the pipe and the stabilizer, and will provide protection to the wood pile from shipworms and barnacles. The stabilizer guides, and matching HDPE pipe, are available in a variety of sizes. All of Sea Power's HDPE products are non-leaching (unlike treated lumber and corrosive metals), and will not harm the aquatic environment.











The photograph above shows the internal stabilizer pile guides in use with wood piles encased with matched size HDPE pipe, with surge protectors and pile caps in place. The floating dock is a Sea Power aluminum framed floating dock. Such a system provides for extreme stability, longevity, and low maintenance.





Sea Power Marine Products, LLC Modular Mooring Unit for Drive-on Boat Dock SPMP Part No. SPMPMD

The Sea Power Marine Products modular mooring unit is a high density polyethylene ("HDPE") unit designed on a modular basis to fit into and secure drive-on boat docks to a fixed or floating dock or pier. The modular unit is designed for use with all brands of drive-on docks, and fits into the interlocking pattern of floats that make up the drive-on dock. The mooring unit is available with a heavy-duty aluminum bracket so it can be attached to the edge of a dock or pier. The top end of the HDPE unit fits within slotted guides on the aluminum bracket so there is a range of adjustment within the aluminum bracket. All of Sea Power's' HDPE products are non-leaching, and will not contaminate the aquatic environment in which they are used.



In the photograph above, the black HDPE mooring unit is fitted into the beige drive-on dock, and secures the drive-on dock to the main dock.







In the photograph above, two black HDPE modular mooring units affix the drive-on boat dock to an adjacent floating dock. When affixed in this manner, the mooring units provide enhanced stability to the drive-on dock.







As illustrated in the photograph above, the HDPE modular mooring units are ideal for marina applications, where they can be used to secure a number of adjacent drive-on docks to a floating pier. This will increase the number of boat slips available at a marina. And it will provide marina customers with the numerous advantages of out-of-water boat storage that they can access themselves. It is also ideal for use in residential dock applications, where the boat owner would like the ease of a drive-on boat dock affixed to the floating dock.





Cube Mounted Internal Stabilizer Unit for Drive-on Boat Dock

SPMP Part No.

Sea Power Marine Products manufactures its patented internal pile stabilizer mounted within a modular cube so that it can be used with driven piles to secure a drive-on boat ramp. This stabilizer is compatible with virtually all drive-on boat ramp systems, and provides a highly stable means to secure a drive-on boat ramp using piles. This cube mounted internal stabilizer is available in 10", 12", 14" and 16" internal dimensions. Specialty sizing is also available. All of Sea Power's' HDPE products are non-leaching, and will not contaminate the aquatic environment in which they are used.



The photograph above shows a drive-on boat ramp secured to driven piles using the Sea Power Marine Products cube mounted internal stabilizer.





Sea Power Marine Products, LLC Surge Protector SPMP Part No.

Sea Power's surge protector is a round collar of high density polyethylene ("HDPE") that is bolted through the top of the HDPE pipe sleeve protecting a wood pile on a floating dock. The collar is matched in size to the HDPE pipe and pile guides or stabilizers, and prevents the floating dock from floating above and escaping the piles in the event of a severe storm surge.



The photograph above shows a Sea Power surge protector bolted in place at the top of the HDPE pipe encasing a wood pile.





Custom Pile Guides for Square Cement Piles

Sea Power manufactures a unique, commercial grade square internal pile guide for use with square concrete piles. The guide consists of a heavy gauge square aluminum frame, with high density polyethylene ("HDPE") rollers mounted on stainless steel axles welded to each of the four sides of the square aluminum frame. This design allows for a tight fit of the floating dock on the piles, thereby maximizing the stability of the floating dock. It also allows for a smooth vertical movement of the floating dock against the piles as the tide ebbs and flows.

A photograph of the fabricated square pile guide is shown below.









A photograph of the square pile guide installed on a floating dock is shown above.

These custom pile guides can be made to any size, and are manufactured pursuant to special orders. Please call Sea Power for more details.





Aluminum Frame Floating Docks

Sea Power Marine Products' aluminum frame floating docks are ideal for marinas and other commercial applications, community and municipal docks, as well as residential sites. The frames are constructed of heavy-duty commercial grade aluminum, and are welded in a lattice structure that gives them unsurpassed strength and rigidity. The strength and stability of these docks makes them particularly suitable for locations with tidal flows, storm surges, boat wakes, and other unsettled conditions. The frames can be customized in any shape to meet unique site requirements. They can also be joined in hinged sections for extended lengths. They can be designed for use with internal or external pile guides, and customized to accommodate any type or shape of pile.



The photograph above shows the welded aluminum lattice frame for the floating dock.

Once the frame has been fabricated, heavy-duty flotation is bolted to the underside of the frame. This modular construction provides for simplified maintenance and allows the flotation to be easily replaced should that ever be necessary.





A variety of deck options are available for our aluminum framed docks, including treated lumber, Ipe hardwood, composite decking and aluminum. These docks are extremely durable and stable, and will substantially outlast traditional wood construction.



The photograph above shows Sea Power's aluminum framed floating dock with hinged sections, Brock Dock decking and stainless internal pile guides with Sea Power curb protectors to accommodate square cement piles.

These aluminum frame floating docks are custom fabricated and can be delivered to any designated location within the Charleston, SC area ready for immediate placement. Please call Sea Power for manufacturing and delivery details.





Commercial and Residential Aluminum Dock Ramps and Gangways

SPMP Part No. SPMPCR

Sea Power fabricates commercial and residential aluminum dock ramps and gangways in a variety of sizes and configurations. Commercial grade aluminum is used in all of Sea Power's ramps and gangways, with particular attention paid to all welds, joints and hinges.



The ramps are available in lengths from 12 feet to 26 feet, and widths of 3 feet or 4 feet. Special sizes can be fabricated for unique needs. Ramp decking is available in aluminum, Sure-Step polypropylene, or Ipe hardwood.







The photograph above shows a 4' x 24' commercial grade ramp with Sure-Step decking.





Appendix Installation Instructions







INSTRUCTIONS FOR INSTALLING INTERNAL STABILIZERS/PILE GUIDES IN FLOATER

PARTS REQUIRED

- 1. 1/2" STAINLESS STEEL HEX HEAD BOLT (8)
- 2. 1/2" STAINLESS STEEL FLAT WASHER (8)
- 3. 1/2" STAINLESS STEEL FENDER WASHER (8)
- 4. 1/2" STAINLESS STEEL LOCKNUT (8)

INSTRUCTIONS

The internal stabilizer/pile guide is to be installed in the framed opening of the floating dock.

 Mark locations to drill the holes for the bolts in the dock using *Figure 1* as a reference. Dimensions shown in *Figure 1* are approximate and may be adjusted for field conditions. Using a 9/16" drill bit, drill all the holes required. Mount internal stabilizer/pile guide to the floating dock using (8) 1/2" STAINLESS STEEL HEX HEAD BOLTS (length to be determined based on mounting location), (8) 1/2" STAINLESS STEEL FLAT WASHERS on top, (8) 1/2" STAINLESS STEEL FENDER WASHERS below, and (8) 1/2" STAINLESS STEEL LOCKNUTS. See *Figure 1*.

For more information contact: <u>www.seapowermarineproducts.com</u> 843-884-5656



Figure 1

 Patent Numbers
 Rev. 3- 02/16/22

 Boat Lifts: US 9,132,897; US 9,352,812; US 9,604,709; US 10,086,919; US 10,370,073
 Pile Guides, Slide Guides and Stabilizers: US 10,267,003; US D828,746; US D828,747; US D837,041; US D826,702; 62/851,783; 29/699,280; 29/722,469; 29/723,576; 29/723,579

 Floating Platform: 16/794,670
 Trademarks :87/442,461; 5,788,367; 88/567,151







PARTS REQUIRED

HOT DIPPED GALVANIZED CAN BE SUBSTITUTED FOR STAINLESS STEEL

- 1. 1/2"X5" STAINLESS STEEL CARRIAGE BOLT (4)
- 2. 1/2"X3" STAINLESS STEEL CARRIAGE BOLT (2)
- 3. 1/2"X3" STAINLESS STEEL HEX HEAD BOLT (2)
- 4. 1/2" STAINLESS STEEL FENDER WASHER (10)
- 5. 1/2" STAINLESS STEEL LOCKNUT (8)
- 6. 1/2" PLASTIC FLAT WASHER (10)
- 7. 3/8"X4" STAINLESS STEEL LAG BOLT (2)
- 8. 3/8" STAINLESS STEEL FLAT WASHER (2)

INSTRUCTIONS

Note:

3.

(2) 3/8" flat washer.

843-884-5656

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Clear the location of any debris where the slide will be mounted. Confirm slide will mount flush on top (horizontally) and side (vertically). If slide will not mount flush, determine if shims should be used or if the dock surface will need to be prepped further.

- 1. Mark locations to drill the holes for the bolts in the dock using the slide as a template. Using a 9/16" drill bit, drill all the holes required. Mount slide to the vertical portion of the dock using (4) 1/2"X5" carriage bolts, (4) 1/2" washers, and (4) 1/2" locknuts and to the deck of the dock using (2) 1/2"X3" carriage bolts, (2) 1/2" washers, and (2) 1/2" locknuts. See Figures 1 & 2.
- 2. To adjust the position of the guide in the slide remove the 1/2" bolts from the area indicated by the black arrows in Figure 3. Reposition the HDPE guide and drill 9/16" diameter hole in the HDPE guide using the existing holes identified by the black arrows in *Figure 3* as a template. Reinstall (2) $1/2^{"}x3^{"}$ stainless steel hex head bolts, (2) 1/2" stainless steel locknuts, (4) 1/2" stainless steek flat washer, and (4) 1/2" plastic washers through the slide and guide.

Rear of guide should be in range indicated in Figure 4. If installed outside of this range warranty will be voided. In high traffic areas it is recommended that the plate that sticks out beyond the slide guide be cut flush to the back of the slide guide. For installations in rough water areas, drill (2) 15/64" pilot holes where

indicated by the white arrows in Figure 4. Install (2) 3/8"X4" lag bolts and







Figure 3



Figure 4

Patent Numbers Rev. 8 - 02/21/22 Boat Lifts: US 9,132,897; US 9,352,812; US 9,604,709; US 10,086,919; US 10,370,073 Pile Guides, Slide Guides and Stabilizers: US 10,267,003; US D828,746; US D828,747; US D828,747; US D837,041; US D826,702; 62/851,783; 29/699,280; 29/722,469; 29/723,576; 29/723,579 Floating Platform: 16/794,670 Trademarks :87/442,461; 5,788,367; 88/567,151







GUIDELINES FOR INSTALLING FLOATING MODULAR CUBE SYSTEM FOR BOAT LIFTS ATTACHED TO DOCK

PARTS REQUIRED

- 1. SPMP FLOATING MODULAR CUBE STABILIZERS (1)
- SPMP MODULAR CUBE SYSTEM POST (1)
 *Note: Posts are available in 36" and 72" lengths and may be cut to fit your application.
- 3. SPMP SLIDE GUIDES (1)
- FLOATING MODULAR CUBES QUANTITY WILL DEPEND ON THE SIZE OF BOAT LIFT REQUIRED. COORDINATE WITH MANUFACTURER OF FLOATING MODULAR CUDE BOAT LIFT.
- 5. FIXED OR FLOATING DOCK WITH ENOUGH LENGTH TO ATTACH THE FLOATING MODULAR CUBE BOAT LIFT

Guidelines

- 1. The Modular Cube Stabilizers (Figure 1) are meant to be installed in place of a modular cube of the boat lift. See Figure 2.
- Install Modular Cube Stabilizer(s) in boat lift. Coordinate location and quantity with modular cube boat lift manufacturer. A minimum of two Modular Cube Stabilizers are required per boat lift.
- 3. Install the SPMP Slide Guides onto dock (floating or fixed) to correspond with the Modular Cube Stabilizer(s). Align the center of the SPMP Slide Guide with the center mark for the SPMP Modular Cube Stabilizer. See SPMP Instructions For Installing Pile Slide/Guide for instructions on attaching the SPMP Slide Guide to the dock. In lieu of attaching a pile guide, an SPMP Modular Cube System Post will be installed in the SPMP Slide Guide.
- Slide an SPMP Modular Cube System Post into each of the Modular Cube Stabilizers and secure to the SPMP Slide Guide per the SPMP Instructions For Installing Pile Slide/Guide. See Figure 3.
- 5. In high traffic areas it is recommended that the plate that sticks out beyond the slide guide be cut flush to the back of the slide guide.
- Applications installed on fixed docks with will require a locking pin to be installed in the bottom of the SPMP Modular Cube System Post.
- Purchaser/installer shall be responsible for determining the appropriate operable range (wake, tide, lake level, etc.) for each intended use site location.
- 8. For larger lift installations additional stabilizers are recommended. Call SPMP for additional information for custom installations.

For more information contact: www.seapowermarineproducts.com 843-884-5656

Patent Numbers

Sea Power'

MARINE PRODUCTS

Rev. 4 - 01/29/21

Boat Lifts: US 9,132,897; US 9,352,812; US 9,604,709; US 10,086,919; US 10,370,073 Pile Guides, Slide Guides and Stabilizers: US 10,267,003; US D828,746; US D828,747; US D828,747; US D837,041; US D826,702; 62/851,783; 29/699,280; 29/722,469; 29/723,576; 29/723,579 Floating Platform: 16/794,670 Modular Mooring Systems: US 10,822,063 B1; US D899,902 S

Figure 3

Modular Mooring Systems:US 10,822,063 B1; US D899,902 S Trademarks :87/442,461; 5,788,367; 88/567,151











GUIDELINES FOR INSTALLING FLOATING MODULAR CUBE STABILIZERS FOR STANDALONE BOAT LIFTS

PARTS REQUIRED

- 1. SPMP FLOATING MODULAR CUBE STABILIZERS (1) *Note: Modular Cube Stabilizers are available in 8", 10", 12", & 14" sizes to accommodate different pile sizes.
- 2. FLOATING MODULAR CUBES QUANTITY WILL DEPEND ON THE SIZE OF BOAT LIFT REQUIRED. COORDINATE WITH MANUFACTURER OF FLOATING MODULAR CUDE BOAT LIFT.
- 3. PILES (1) SIZE AND LENGTH DEPENDS ON LOCATION CONDITIONS

GUIDELINES

- 1. The Modular Cube Stabilizers (Figure 1) are meant to be installed in place of a modular cube of the boat lift.
- 2. Install Modular Cube Stabilizer(s) in boat lift. Coordinate location and quantity with modular cube boat lift manufacturer. A minimum of two Modular Cube Stabilizers are required per boat lift.
- 3. Modular Cube Stabilizer can be installed over an existing pile or a new pile can be driven through it. See Figure 2 &3.
- 4. For shallow water applications install the long side of the stabilizer in the up position.
- 5. For larger lift installations additional stabilizers are recommended. Call SPMP for additional information for custom installations.



Figure 1 - Modular cube stabilizer



Figure 3

Figure 2

For more information contact: www.seapowermarineproducts.com 843-884-5656

Patent Numbers

Rev. 4- 02/18/22 Boat Lifts: US 9,132,897; US 9,352,812; US 9,604,709; US 10,086,919; US 10,370,073 Pile Guides, Slide Guides and Stabilizers: US 10,267,003; US D828,746; US D828,747; US D828,747; US D837,041; US D826,702; 62/851,783; 29/699,280; 29/722,469; 29/723.576: 29/723.579 Floating Platform: 16/794,670

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