

**Like us, our concrete  
breakwaters and docks are  
still here after the storm**

**Concrete**

**Products, Reputation, Relationships**

**In relation to the sea, there is no room for  
compromise. As manufacturers of products related  
to the sea, there is no other alternative but total  
commitment to the cause.**







**SF Marina System's concrete floating structures have over 100 years of design history, research and development from which our "Storm Proven" systems have evolved. Longevity, low maintenance, and a single-cast design with proven connections endure decades of service.**







An aerial photograph of a large marina filled with numerous sailboats docked at a long, light-colored pier. The water is a deep blue, and the surrounding land is lush with green trees. In the background, a small town with buildings is visible on a peninsula. The overall scene is peaceful and scenic.

# Marina Systems

**“Our yacht club replaced it’s concrete dock over the last two years with SF Marina Systems. They were easy to deal with. helpful with ground tackle concerns, competitive, and timely. We are very happy with the design and the finished product.”**

**- Boston Yacht Club, Marblehead MA**



# Marina Systems Overview

Our Marina Systems are a step above the typical wooden, aluminum or steel dock systems you've seen. We offer a complete line of all-concrete single-cast designs, with EPS styrofoam cores and protected steel reinforcements. The heavy mass of the structures offer stability and longevity. They are low maintenance, and accommodate high vessel and environmental forces; including high winds, waves and harsh winters.

Our marina structures are aesthetically pleasing to view and feel under foot. They are customized with wood and composite treatments and a thick deck surface to accommodate internal utilities, lighting, high-loading cleats and bollards, and small cranes. If you can cast it into concrete, we can design for it!

# Technical Considerations

- Freeboard heights from 10" to 38"
- Widths from 8' to 32'
- Customizable lengths up to 100' single-cast units
- A thick concrete deck surface accommodates internal utilities, lighting, high loading cleats and bollards, small cranes
- Anchoring Systems include chain and bottom anchors, pile mooring, and helical with elastic rode mooring systems
- Proven cable connector system for endless dock lengths



### SF 1000

Width: 5m, Freeboard: .5m

🔄 Marblehead, Massachusetts 🕒 1985/2018

📏 SF 1024 & 1050



### SF 1200

Width: 2.4- 3m, Freeboard: .6m

🔄 Hamilton, Bermuda 🕒 2014

📏 70 slip marina, vessels from 25' to 100'



### SF 1500

Width 3-10m, Freeboard .75m

🔄 Newport, RI 🕒 2017

📏 Type 1540 moored on pile 14'x 230'



### ProDock

Width: 3 - 7m, Freeboard: .5m

★ New Basalt Reinforcement Technology

🔄 Llaxhall, Sweden 🕒 2014

📏 2.4m x 10m sections w/ steel fingers



### X-line

Width: 4 - 10m, Freeboard: .5m

★ New Basalt Reinforcement Technology

🔄 Norden Bay, Germany 🕒 2014

📏 2.4m x 12m sections





# Gurneys Marina

📍 Newport, RI 🕒 2017

📏 Type 1540 moored on pile 14'x 230'

The Gurneys Marina was assembled from multiple SF Marina system's components. Type 1540, for the Mega Yacht dock, Type 400 Floating Breakwater, Type 1030 concrete docks, and high freeboard concrete fingers.

The unique design called for freeboards ranging from 7 inches to accommodate the sloped sport/paddle dock, up to 30" for the mega yacht dock. Solid Cast Concrete 50' fingers were manufactured with 75 degree angles to provide a better approach for docking yachts

Harbor Engineering prepared the layout design, and Reagan Construction accomplished the installation. A full range of utilities from 100 amp 3 phase power, water, pump out and fire standpipes were accommodated 100% internally via the custom designed ducts system.

The Marina location is exposed to the Northern fetch of Narragansett Bay, which can produce significant waves in the off season months.







# Industrial Docking Systems

**“The system was completed in 2006 and has weathered two category-two hurricanes, and four major Nor’easters with minimal damage. The system has outperformed the counties expectations”**

**- Joe Sisler, PE , Chief of Engineering and Facility Maintenance | York County Virginia**



# Industrial Docking Systems

## Overview

A complete line of heavy duty, all-concrete single-cast designs with an EPS styrofoam core and protected steel reinforcements. The heavy mass and thick walled concrete structures offer stability and longevity. They are low maintenance and accommodate large vessels and environmental forces, including impacts, high winds, waves and harsh winter ice. From tenders, to large tugs, fishing vessels, ferries and super yachts we have an unsinkable solution.



## Technical Considerations

- Freeboard heights from 10" to 80"
- Widths from 8' to 52'
- Ferry landings, commercial berthing, municipal docking for fire and police crafts
- Heavy loading capacity for forklifts, vehicles, structures
- A thick, reinforced concrete deck surface accommodates internal utilities, lighting, small cranes, mooring bollards, and large capacity equipment
- Can accept fender systems of all sizes and impact rating
- Custom large vessel fender systems
- Anchoring systems include chain and bottom anchors, pile mooring, and helical with elastic rode mooring systems
- Customizable lengths up to 100' single-cast units with angle joints
- Proven cable connector system for endless dock lengths

### SF 1200

Width: 3 - 10m, Freeboard: .6m

🔄 NYC, New York 🕒 2010-2014

📏 1230 multiple lengths

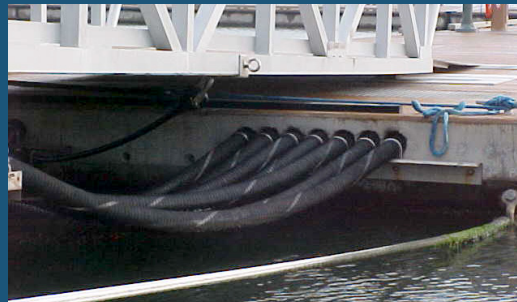


### SF 1500

Width: 4 - 16m, Freeboard: .75m

🔄 Yorktown, Virginia 🕒 2006

📏 Type 1560 925' X 20', 30" Freeboard,  
Heavy Chain Anchoring



### SF 1800

Width: 10m, Freeboard: 1m

🔄 Donsö 🕒 2018

📏 1860 Ship Pier 32' x 328', 40" Freeboard





# Yorktown National Park Service

📍 Yorktown, Virginia 🕒 2006

📏 Type 1560 925' X 20', 30" Freeboard,  
Heavy Chain Anchoring

*"The system was completed in 2006 and has weathered two category-two hurricanes, and four major "Nor'easters" with minimal damage. The system has out performed the counties expectations"*

- Joe Sisler, PE , Chief of Engineering and Facility Maintenance |  
Yorktown National Park Services, Yorktown, Virginia

**The 1560, large vessel transient pier 924' long x 20' wide 30" freeboard is fitted with HD fender and bollards, and a large diameter chain anchoring system.**

**The Yorktown National Park was in need of a large vessel pier for visiting transient boats, small cruise ships, regional tour boats and tall ships. The depth of the water, sharp drop from shore and fierce currents inhibited a fixed pier solution. SF Marina Systems and Coastal Design and Construction developed a less costly all-floating system which could accommodate up to 400' vessels with 55mph squall conditions. The location has a 27 mile fetch, the system regularly experiences a 6 ft wave.**







# Floating Breakwaters

**“The Floating breakwaters are attenuating the waves and the calming the interior basin, Mason was great to work with, I would recommend SF Marina Systems for your marina and floating breakwater needs.”**

**- Judith Vreeland, CMCA, AMS, Property Manager for Port Liberte HOA**



# Floating Breakwaters

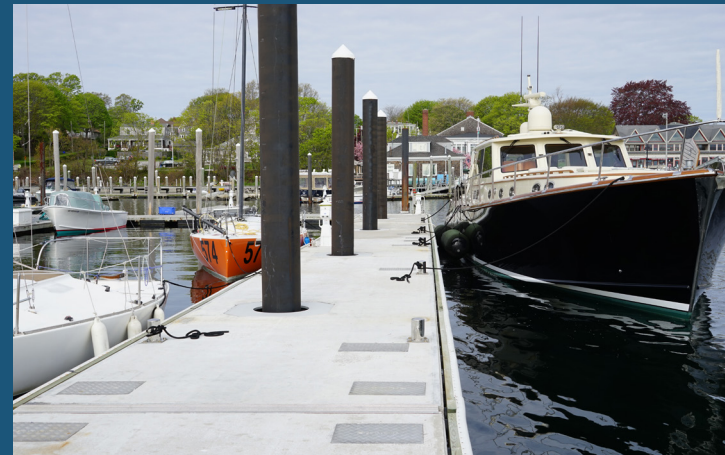
## Overview

A complete line of heavy duty all concrete single-cast floating breakwater with EPS styrofoam core and protected steel reinforcement. The heavy mass and thick walled concrete structures offers stability and longevity while attenuating waves to provide a calm protected harbor area. They are low maintenance and accommodate large vessels and environmental forces, including impacts, high winds, waves and harsh winter ice.

The floating breakwater systems are based on SF Marina's Industrial docking systems, enhanced with greater depth and mass to stop wave energy. Floating breakwaters double as marina and industrial docking systems.

## Technical Considerations

- Freeboard heights from 20" to 30"
- Widths from 10ft to 42ft
- Draft depth from 4ft to 12ft
- A thick reinforced concrete deck surface accommodates internal utilities, lighting, small cranes, mooring bollards and large capacity equipment
- Anchoring systems include chain and bottom anchors, pile mooring, and helical with elastic rode mooring systems





## SFBW 300

Width: 3m, Height: 1.8m

🔄 Newport, Rhode Island 🕒 2013

📏 10' wide x 6' tall x 230' long



## SFBW 400

Width: 4m, Height: 1.8m

🔄 Plymouth, Massachussets 🕒 2013

📏 Type 400 with 48' SF concrete fingers  
moored on piles



## SFBW 500

Width: 5m, Height: 1.8m

🔄 Charleston, South Carolina 🕒 2013

📏 700' of 16' wide floating breakwater,  
moored on heavy chain



## SFBW 600

🔄 Provincetown, MA 🕒 2016

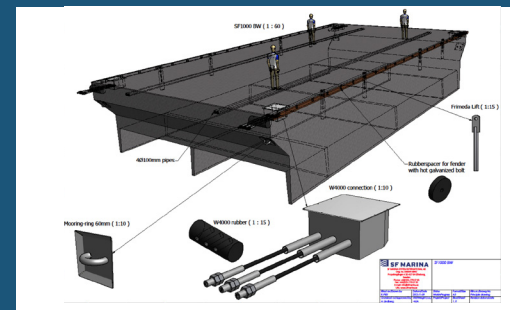
📏 Type 1240,1260,500,and 600  
floating breakwaters



## SFBW 1000

Width: 10m, Height: 3.6m

📏 32' wide, 12' tall, 66' long standard size





# Provincetown Marina

📍 Provincetown, Massachusetts 🕒 2016

🏗️ Type 1240, 1260, 500, and 600 floating breakwaters

*"The Provincetown Marina was designed and built to be protected by floating breakwaters on a year round basis in one of the toughest winter environments in the Northeastern USA, the breakwaters are performing as planned"*

- Chuck Lagasse | Owner Provincetown Marina

Chuck and Ann Lagasse overhauled the old Fisherman's pier in Provincetown Ma. The Two phase project in total has over 2000' for concrete floating docks, with over 650' of this total as 16-20' wide floating breakwaters.

The Type 600 Breakwater is moored on 36" piles, and has a draft of 6 ft. It protects Multiple 80' wooden slips which can accommodate yachts over 100ft long. The along side berths can accommodate Super yachts and have a full compliment of utilities and power to service these larger vessels.

Provincetown harbor is long know for its ocean generated storms, which can produce strong aggressive winds that will whip up sizeable waves in the harbor. The width and size of the concrete floats have proven well in these conditions.







# Specialized Structures & Floating Foundations



# Specialized Structures & Floating Foundations Overview

Specialized structures utilize the full line of SF Marina Systems products, with customized features and designs. With the combination of our industrial systems and custom single-cast concrete structures, we have a wide range of product uses and applications which suit the marine industry, shorefront businesses and transit systems.



## Applications

- Floating Foundations for homes, offices, industrial applications and restaurants
- Ferry landings and floating piers with multiple freeboards
- Fueling stations
- Helicopter landing pads
- Floating bridges
- Community access docks with architectural features wood decking over concrete structure
- Private docks - floating hot tubs
- Vessel ramps





### Tug / Superyacht berth

🔄 Slutbesiktning Sweden 🕒 2016  
📏 Type 2410 32' x 150 5 ft. freeboard



### Post Tensioned Foundation

🔄 Tjorn, Sweden 🕒 2008  
📏 40' x 160' floating foundation



### Floating Bridge

🔄 Norfolk, Virginia 🕒 2014  
📏 16' x 291' floating bridge



## Tug / Superyacht berth

🕒 Slutbesiktning Sweden 🕒 2016

📏 Type 2410 32' x 150 5 ft. freeboard

Located near the SF Marina Systems factory in Sweden. These high freeboard (5 ft) Tug / super yacht berths serve as a home port for three 1100 ton Tug boats. The massive single cast units are 10m wide and 2.4m tall and weight over 240mt each. They can be combined together to create unlimited lengths, with pile moored solutions as well as chain mooring.

Integrated into the utilities systems is Power, water and sewer systems for the vessels. 30-ton bollards are cast into the structure. Customizable cast concrete fender blocks allow the buoy fenders more contact area to cushion the tugs during stormy weather.

The reinforced deck and bridge ramp is designed to carry loaded commercial trucks allowing supplies to be craned on to the tug boats, and for Fuel truck deliveries. This Floating pier system is a acceptable alternative to fixed pier structures for Commercial vessels and Super Yachts





# From 1918 to Present

SF Marina System USA (SF USA) is based in Gloucester, VA and is partnered with SF Marina Systems International in Gothenburg, Sweden, with representatives in more than thirty countries. SF USA is part of a worldwide network of specialists selling and producing concrete floating structures. The company's heritage dates back to 1918 in Sweden, where the early designs and product development began. Just a few years later, concrete floating docks were in production. SF Marina Systems has been advancing the designs and technology of floating dock breakwaters, some including the creation of floating breakwater pontoons in the 1980s starting with a 3m floating breakwater design and evolving to include 4m, 5m and 6m widths. We now offer floating breakwaters up to 10m wide, which are 3.6m tall, and 40m long. These advancements have translated directly to the quality and designs of marine dock and industrial systems. The next advancement is the use of non-metallic reinforcement for the floating concrete structures. The use of basalt rebar is a significant advancement that will greatly increase the lifespans of concrete docks that will last a century.



# Technology and Philosophy

Absorbing wave energy and dock forces is a challenge, but we set ourselves apart by evaluating the site conditions and designing state of the art systems that will endure the most severe conditions. Our Technology and Philosophy ensure our systems are still there after the storm.

**Strong Single-Cast Structures:** We design our dock structures and reinforcements for superior load distribution.

**Strong Connectors:** We have a unique range of in-house developed connectors for every application and loading requirement.

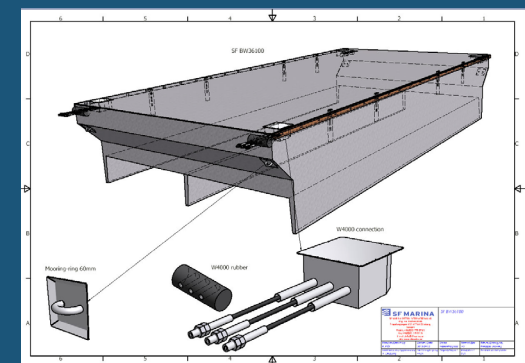
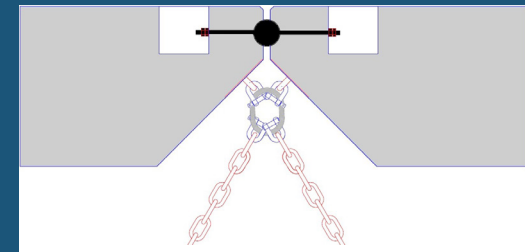
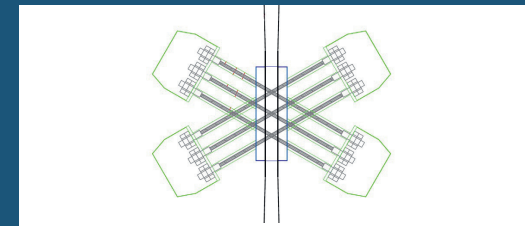
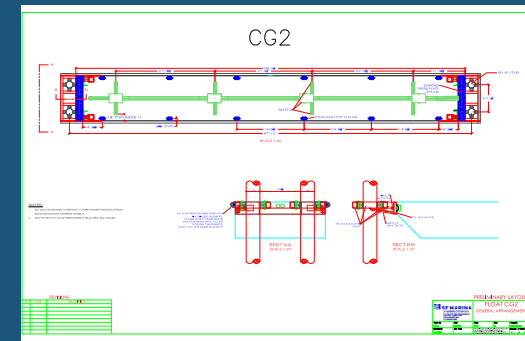
**Anchored Solutions:** We understand the site's criteria and design an anchor system that will enhance the performance and survive the test of time.

**Tested Innovation:** With decades of R&D, our products are storm proven before we release new designs.

**Customer Support and Relationships:** The long-term success of our products and the confidence of our customers is the ultimate goal. From our designs, to our dependable maintenance and know how, SF Marina Systems is ready and here for you.

## Concrete

Products, Reputation, Relationships







We specialize in providing superior floating structures and marina systems.

Partner with us. Our proven designs and decades of experience provide a solid foundation to build your project on.

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**Concrete**

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