

**Customized Designs,
Aesthetic Details
and Optional Amenities**
for marina dock systems

CONCRETE DOCK SYSTEMS



With the options available today for coloring, texturing, imprinting, staining or stenciling, concrete has become a versatile and attractive focal point in design for upscale projects.

Traditional Brushed Finish



A Traditional picture frame, brushed finish gives concrete floats a classic, clean look with a non-skid surface. The simple design of the brushed finish is timeless and can be found at many upscale marinas.

Exposed Aggregate & Custom Designs



Inspired by the place where the land meets the sea this dock features a unique wave like pattern with shell imprints and turquoise stones sprinkled about on one side and an earth-toned exposed aggregate on the other. By mixing and matching some of concrete's unique design attributes, marinas can create a truly customized look.

Exposed Aggregate & Custom Designs



The docks above also feature exposed aggregate options. The dock on the left has a basic exposed design where as the one on the right showcases a custom aggregate with slices of conch shells integrated for a truly unique look.

Stamped Concrete



Stamped concrete is becoming a popular way to customize concrete surfaces. The options for patterns are endless and color can easily be incorporate to create a truly unique look for your facility.

Colored Concrete



More and more marinas are using color to enhance the look of their facility and to build something that's both elegant and personalized. Color can even be incorporated into the floats. These Roman clay colored floats greet megayachts at a new facility in the British Virgin Islands.

Colored Concrete



Other popular colors include varying shades of gray – from charcoal to light gray.

Timber or Composite Decking



For owners who want the stability, durability and longevity of the Unifloat system but preferred the warmth of a timber dock, a timber or composite deck can be placed on top of the Unifloat.

TIMBER DOCK SYSTEMS



Timber docks systems can be an economical choice for those who love the natural look and feel of wood.

Traditional Southern Yellow Pine



A southern yellow pine deck offers a classic look that is durable and affordable.

Custom Hardwood



Utilizing a hardwood for the deck of a timber dock is an easy way to upgrade the look and feel of the dock.

STRUCTURAL DESIGN FREEDOM



The flexibility of different building materials allows designers to incorporate a variety of curves and angles.

Curved Walkways



Incorporating a curved design allowed the main walk of this marina to follow the curve of the promenade creating a seamless transition from landside to waterside.

Curved Docks



Curved docks not only add an interesting design component but allow marinas to optimize available space and provide additional slips by building shapes that compliment the shape of the basin.

Unique Angles



The ability to fabricate and work with uniquely shaped and angled docks allows designers to fit the layout of a marina to an existing basin maximizing clear water widths. It also allows them to create specialized pontoons such as those pictured above on the right. These unique floats were designed for a river site to accommodate the free passage of flowing debris.

GATHERING SPACES



Creating large open areas on the docks provides a space for small gatherings and can promote a sense of community. These areas can also be used as staging areas for provisioning or gathering areas for educational trainings.

Floating Decks



These over water decks not only add an architectural design element to the marina but they are also functional. From small BBQs to cocktail parties, over water decks are a great way to create additional spaces for people to gather.

Floating Patios



Much like the concept of the over water deck, floating patios are another design feature marinas can incorporate to provide areas for hosting small gatherings.

COVERED AREAS



A covered dock provides protection from the elements and allows your tenants to take advantage of the outdoors while still being sheltered from the weather. Define your needs and the overall look and feel you want to create at your facility and plan your covered areas around them.

Canvas Covers



Gone are the days where roof systems had to be constructed of traditional metal roofing materials. The diamond-shaped canvas covers pictured above distinguish this city's waterfront from any other. Functional, as well as aesthetically pleasing, the canvas roof system provides shelter for boats and tenants in the marina's slips.

Metal Roof Systems



Although today's marinas are not limited to traditional metal roofs, a metal roof system can be the perfect solution for a marina that needs complete coverage and shelter from the elements.

FLOATING STRUCTURES



The range of applications for floating structures is limitless from club houses to convenience stores, floating buildings offer a unique opportunity to incorporate a substantial piece of architecture into your marina.

Floating Offices, Restrooms and Laundry Facilities



Architecturally stunning and designed to complement upland structures, today's floating buildings offer convenience and style.

Floating Stores



Built to resemble their upland counterparts, floating stores can be designed in any shape or size to meet a marina's exact need.

LOW FREEBOARD AND SLOPED PLATFORMS



For marinas catering to a sailing club, a platform with a low or sloped freeboard can provide an added amenity appreciated by this group of users. The low or sloped freeboard allows for the easy retrieval and launching of small sailing boats and human powered craft.

Crew Floats



Common crew float designs include floats with a step down freeboard and those with a consistent low freeboard over the entire platform.

Sailing Floats



A sloped freeboard float or a more standard float with a sloped notch are common in marinas with a strong sailing program or junior yacht club.

FINISH TRIM: COMBINING MATERIALS



The use of concrete in combination with hardwoods, polymers and composites gives designers the freedom to maximize the benefits of each material while creating something that's distinctive. Incorporating different materials is an easy way to add beautiful finishing touches but maintain the many benefits associated with use of concrete such as reduced environmental impact and increased design flexibility.

Polymers



Polymers can be utilized on tri-angle frames to provide a durable, easy to clean, non-skid surface. They can also be used to create grated surfaces that allows for the passage of ambient of light.

Hardwoods



Hardwood can be used on triangle frames and around piling to create a customized look and add an interesting design detail with the added benefit of eliminating introduction of chemicals into the environment through use of treated lumber.

Hardwoods



Hardwood can be utilized as a design feature to bring warmth and added beauty to the docks. The contrast of the concrete and hardwood is striking to the eye and allows design elements incorporated landside to be carried onto the docks.

Composites



Composites are becoming a popular material to combine with concrete to create a beautiful finished look. Much like hardwoods, composites can be added to finger ends, triangle frames, and piles guides to create an interesting design detail on the docks.

FINGER ENDS



Finger ends can be designed to complement the overall look of your marina. Although the need for a pile or not will be driven by the engineering, there are a number of options for how to finish the off the end.

Square



This traditional style finger end creates clean lines within the marina. It is also less costly, utilizes standard forms and is overall the best value

Round Finger Ends



Preferred by many boaters because there are no hard edges, rounded finger ends can be finished in hardwood, polymer or composite. The overlay hides the structural pile guide components and enhances the property's architectural design.

Cantilevered Fingers



Cantilevered fingers utilize an innovative technology that does away with the piling at the end of the finger. Although the application of this design is dependent on finger length and wave environment, it is a great design option for those sites able to utilize it. Cantilevered fingers can be finished with a round or a square end.

FINGER CONNECTIONS



Depending on the type of accessories an owner wants to include on the marina, varied finger connection designs can be incorporated to make the best use of space.

Standard triangle Frames



This design provides greater stability to fingers. It also provides surface area to mount locker boxes and other ancillary items such as fire extinguisher cabinets keeping walkways clear and uncluttered.

No triangle Frames



This design accommodates boats that prefer to back in (stern to mooring). It may also be a potential aesthetic preference. In the future if an owner wants to add a “triangle frame” cover for locker box storage, one can be added. It’s worth noting that the “no triangle frame connection” requires wider fingers than typically necessary.

Mini-Frame



The mini-frame provides an area for mounting small accessories while accommodating stern to mooring.

ANCHORING SYSTEMS



The most common anchoring systems for marina systems are pile, chain /elastic and stiff arm systems.

Pile Systems



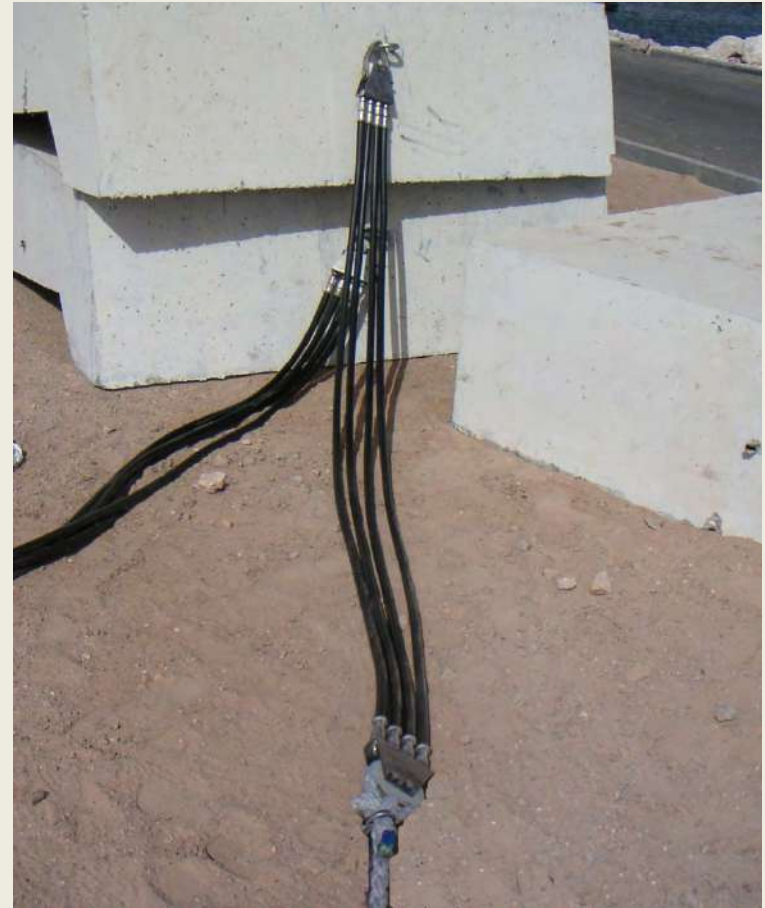
Piles are typically concrete or steel although several new composite options have recently hit the market. Soil conditions and material availability are two major factors that affect type of pile used for a particular marina.

Telescoping Pile



Advances in engineering have made it possible to offer a telescoping pile option. This option is best suited for marinas who need to meet visual obstruction requirements or who have large boat berths and want an option for their larger fingers.

Chain or Seaflex Systems



In deep water installations or in remote locations where getting pile driving equipment to the site is difficult a chain or seaflex type anchoring systems may be the best choice.

Stiff Arm Anchors



On small projects where piling and chain /elastic systems are not appropriate a stiff arm anchor may be a viable option.

CLEATS AND BOLLARDS



Many owners find cleats and bollards to be an important issue to their customers and are another item owners may choose to customize.

Standard Cleats



Standard cleats are usually galvanized steel or aluminum alloy and are sized to accommodate specific vessel lengths.

Galvanized Bollards



Standard galvanized bollards can be customized and water mounted in the traditional format.

Polished or Plated Stainless Steel Bollards



These can be fabricated to reflect customized designs.

Customized Styling



Custom styled cleats and bollards are becoming popular with many high end marinas. Cleats can also be imprinted with the marina's or yacht club's logo to create a personalized look.

PROTECTION: FENDERING & CAPS



Fendering helps to protect both the docks as well as the customers' boats that will be using the marina.

L Profile White or Gray Vinyl Fendering



This fendering wraps around the top and side of the waler. It is easily fastened to the dock with stainless steel or aluminum ring shank nails.

Low profile Fendering



This fendering has a slimmer profile and sits above the through-rod holes. Also available in gray and white.

Heavy Duty Fendering



Heavy duty fendering is most often used on docks that accommodate larger boats and commercial traffic.

Corner Bumper



Corner bumpers provide added protection and are easily replaceable. They are available in gray and white and in L profile or low profile.

Rod Caps



Through rod caps can be installed to provide added protection to the rod ends. In addition some customers feel they provide an improved and cleaner aesthetic appearance. Caps are available in several different styles and can be custom ordered in a variety of colors.

LIGHTING



A marina's lighting design should not only enhance the beauty of the property but add safety and security. Lighting can make a dramatic first impression and can be an easy way to create an inviting space that sets your facility apart.

Lighting on Dock Boxes



Lighting can be incorporated in power centers mounted on the front of dock boxes (within certain amps). The glow of the lights creates an inviting ambience and provides adequate lighting for those on the docks at night.

Accent Foot Lighting



Lights mounted along the edge of the dock can provide additional light without contributing to light pollution which results from misdirected or misused light.

Lighting on Power Centers



Lights can also be incorporated into power pedestals. An owner may choose between florescent or LED. Some of the advantages of the LED option include reduced maintenance and lower operating cost.

Overhead Lighting



Lighting is often required on mainwalk ways. Overhead lighting is one way lighting can be added to these sections of dock.

Recessed Deck Lighting



Recessed lighting offers a clean, streamlined look. It can increase the amount of light on a dock and help with night navigation around the marina.

Lighting up the Water



A new trend among upscale marinas is to incorporate accent lighting either along or under the waterline. Both create a stunning visual display at night. Although blue is the most commonly seen light color, green and white lights are also available. An important thing to keep in mind is that different lights show better in different regions due to water temp and clarity.

Gangway Lighting



Some areas require lighting on the gangway. Lights can be placed at foot level and /or along the hand rail to aid in safe navigation at night.

Colored Lights



Marinas are using colored lights to create an upscale, sophisticated look. Red, white, yellow and blue are some of the most common colors utilized by today's modern marinas.

POWER



Access to power is an amenity that is important to today's boaters. A marina may choose from a variety of different power options that will allow them to cater to a range of boat sizes.

Mini Centers



Mini-power centers can be mounted on a triangle dock box or on a stand as pictured above. These units accommodate lower amperages and serve one boat per unit.

Power Pedestals



A marina may choose a power pedestal over a mini power center. It offers more features and receptacle options than the mini center. The pedestal can also be mounted on the triangle frame or on the walkway.

Power Stations



These power stations are used to accommodate mega yachts. They offer the greatest number of receptacle options and highest amps.

Metering



An owner may choose to incorporate metering to monitor power use. Digital metering is incorporated into the pedestal. It requires manual reading. Remote metering is growing in popularity. With remote metering, a signal is sent from the power pedestal to the marina's computer system, which documents utility use.

POWER ACCESS



A marina may choose to provide power access in different formats. For example, a marina may choose to have 2 berths share a single power unit or provide a power unit for each slip.

Single Pedestal Unit per Slip



A single power pedestal is provided for each slip, often mounted on each triangle frame.

Single Power Pedestal Shared by 2 Slips



A single power pedestal may be shared by the vessels on either side of the finger. With this option a cord tray may be incorporated to eliminate trip hazards.

Dock Box and Power Center per Slip



With this configuration, each slip is given a dock box with a power center mounted on the front.

Power Pedestal Mounded on Walkway



This option is often utilized in side tie locations or if the marina wishes to provide a dock box plus the added receptacle and power options available on the pedestal.

Pay Centers



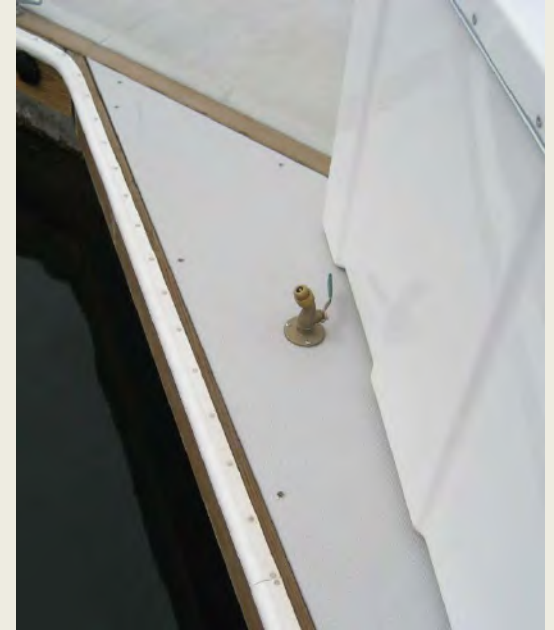
Automated pay centers allow boaters to access and pay for power without marina personnel present.

OTHER UTILITIES



In addition to power, marinas can incorporate a number of other amenities

Freshwater



Hose bibs can be located in a number of places including on the pedestal, locker box, or on the triangle frame. A metering option can also be added to monitor freshwater use.

Ionized Water



A centralized ionized water system can be plumbed into the docks and made available at each slip.

Telephone and Cable Connections



This is a standard inclusion on many power pedestals. The TV cable also provides internet capabilities.

Sewer Pumpout Systems



Options for sewer pumpouts range from transportable units to those installed within the dock system.

In Slip Pumpout Connections



In slip pumpout hydrants can be installed above the deck or below. Installed below the deck, there are no trip hazards or protruding parts that may get damaged.

Fire Fighting Equipment



A marina's firefighting system is often determined by local code and access. Bellingham Marine can accommodate whatever the marina's need maybe.

FUEL



Access to fuel is an amenity appreciated by all boaters

Fuel



Options for fuel access range from the traditional dedicated fuel dock to service at the slip. Incorporated at a Superyacht facility in Florida, in slip fueling offers the convenience of high speed fueling at the slip.

PILE CAPS & SLEEVES



Popular in certain regions are use of colored pile caps. Traditionally seen in white, pile caps can come in a range of colors and can be used to accent the colors of your marina or to identify different docks. Another option is to include a design detail or club logo on the cap.

Standard Pile Caps



Standard caps are available in round, square or octagonal. White or black are typical cap colors.

Custom Pile Caps



Green, red, yellow, orange, blue, silver... the options for custom color pile caps are endless. Not only can they add to the visual appeal of the facility but they can serve as an easy reference for boaters returning to the marina after a day on the water.

Steel Pile Treatments



Steel piles may be left as raw steel, painted with an epoxy coating or sleeved with an HDPE Sleeve.

GANGWAY DESIGN



Gangways can be enhanced visually through a variety of optional features. Sloped handrails, powder coating, polycarbonate side panels, lighting, and use of grated or wood planked surfaces are just some of the design details that can be included to create a customized appearance.

Standard Aluminum Gangway



Tipped Hand Rails



Extra Wide Gangways



Custom Gangway Decks & Rails



STORAGE



Clutter on the docks is a safety hazard. A cluttered dock can also take away from the overall look and appeal of a facility. Keeping your walkways clean by offering convenient storage solutions will be appreciated by all.

Dinghy Racks



Dinghy racks are an easy solution for keeping your tenant's dinghies stored away in a safe and convenient location.

Bike & Kayak Racks

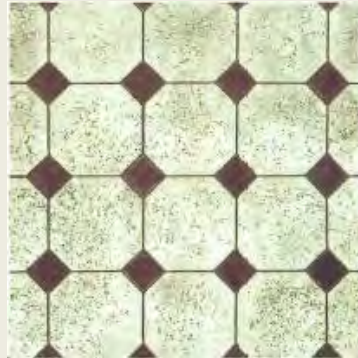


Bike & kayak racks are another storage solution you can offer your tenants that can add to the overall visual appeal and function of your marina. They are available in a wide range of design and color options and can be suited to fit almost any size space.

STAMPED CONCRETE PATTERNS



Clay Tile



Sandstone



Cobblestone



Fractured Slate



Old Belgium Stone



Canyon Stone



Rock Salt



Ashler Stone

STAMPED CONCRETE PATTERNS



Limestone



River Stone



Moorish Paver



Pine



River Pebble



Cedar

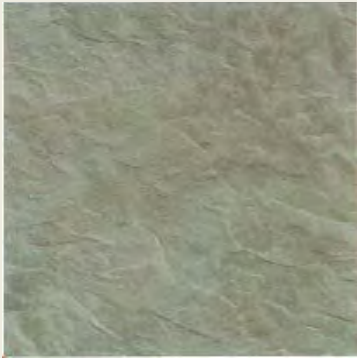


Cobblestone



London Slate

STAMPED CONCRETE PATTERNS



Fractured Slate



Fractured Earth



Cobble Tile



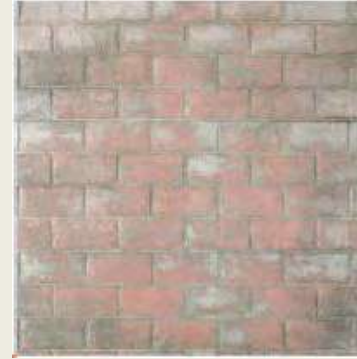
European Fan



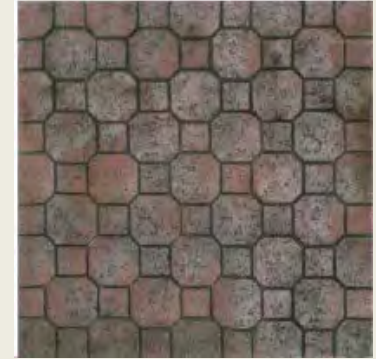
Double Running



Ashler Stone



New Brick



Octagon Tile

STAMPED CONCRETE PATTERNS



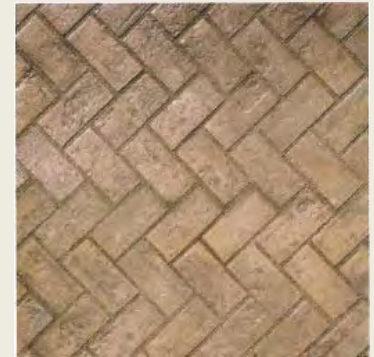
Natural Stone



Used Brick



Basketweave



Herringbone



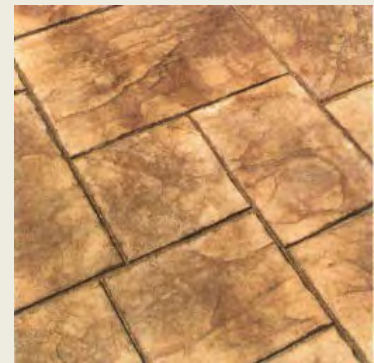
Random Interlocking



Victorian paver

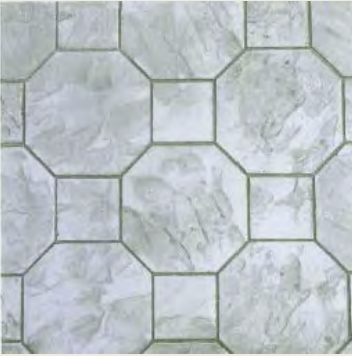


English
Yorkstone



Vermont Slate

STAMPED CONCRETE PATTERNS



Octagon /Square



Pennsylvania Slate



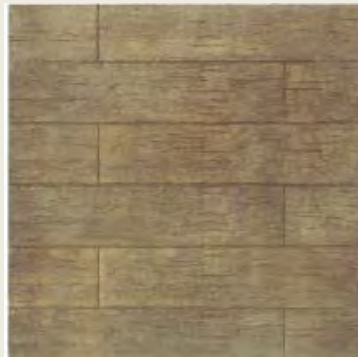
Stone Tile



Stacked with Border



Cobblestone



Weathered Wood