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Marina and Pontoons

As more and more people are getting out on-the-waters, the need of a marina is inevitable. However, at time, using a pontoon system would make sense depending on the requirements for use and location. One of the advantages with these is that they can be moved around in the vicinity of the same area; or you can increase the size through simple re-installation; apart from being cost-effective.

The Pontoon product and components used by us to form a pontoon system are an effective and efficient to assemble and no-maintenance. After understanding your requirements correctly, sufficient amount of testing and analysis is done before advising the best solution for your pontoon.

The HDPE Pontoon product and components is made from industrial strength high-density molecular weight Polyethylene HD-PE Lupolen 5261Z from BASELL in Germany. This material will never corrode or generate reactions with seawater electrolysis, chemicals, fuel, oil, gasoline, and is 100% UV resistant. The use of such pontoon systems is environmentally friendly and long-lasting.

By flooding the units the freeboard can be altered to suit different applications. This is also useful for extra stability when installing a permanent platform. All the individual cube units are marked for ballast purposes.

Apart from Recreational purpose, the pontoon systems can be used also for industrial and commercial use and can sustain the weight of heavy vehicles, and machinery.





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HDPE Modular Marina System

Applications of acrdock modular float system includes marinas, harbours, jet ski docks, drive on docks, floating work platforms used in industry, communal projects, and navy engineering, aquatic stages for water shows and activities, pontoon bridges, fishing farms, floating walkways, Bathers' play rafts, bases of outdoor aquatic beer bars, coffee shops, rest shelters, or floral decorative displays, judge-stages for aquatic sport games, aquatic life-guarding platforms, etc.





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Application

Safety, with patterns on the top surface, Modular Float System is free from the dangers caused by slippery surfaces, splinters and rusty nails usually found on wooden walkways. Also it has no sharp comers and is stable enough to walk on.

Versatility: can be used widely in various fields.

Economy: free maintenance and low upkeep.

Convenience/Simplicity of Construction: can be easily quickly installed and dismantled.

Color: with colors of blue, black, gray, and orange, etc.

Durability: resistant to UV rays, frost, seawater, corrosion, chemicals and oil.

Changeability/Resolvability: one connecting pin holds four cubes together-permitting the assembly of any size and any configuration on the water and the assembly can be changed to meet the requirements

Recycle: HDPE,100% recyclable, environmentally friendly.

High Compression: Average compression load is over 3500 kg/sqm.

Strength: Diagonal lugs' tensile strength is over 1950kg approved by the official authorities; test speed is 50mm/min. (This is the MOST IMPORTANT ITEM to the quality because the connecting is the foremost factor to the pontoon's quality.)



























































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Motorized barges (powered by electric motors).

Floatation anchored raft islands.

Judge-stages for aquatic sport games.

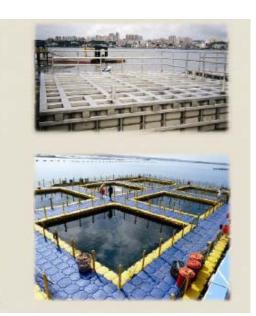
Water-boundary markets.

Enclosures and separators for water treatment plants.

Aquatic life-guarding platforms.

Breakwaters.

(Remark: Any engineering structure can be designed and installed to meet with the needs and requirements.





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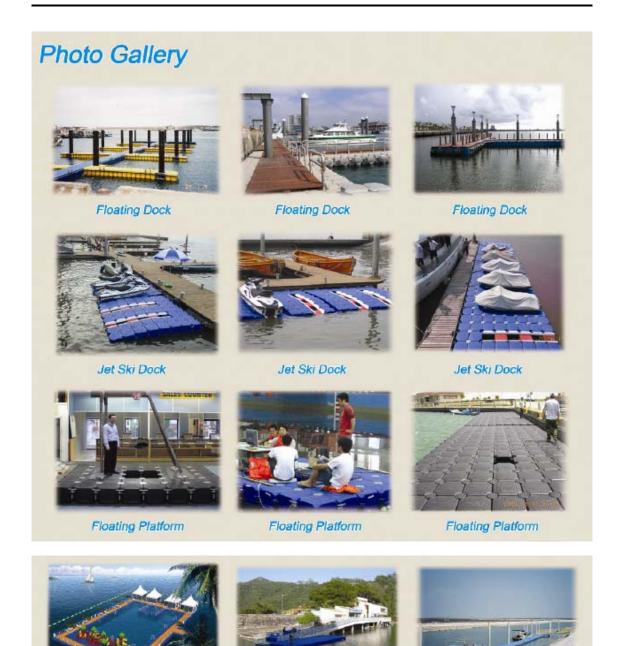
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Water Park

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Floating Dock





Floating Platform

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Comparison Between Concrete / Aluminium & Steel / HDPE Modular Marina Pontoon System

CONCRETE PONTOON SYSTEM

The Concrete Pontoon System uses a heavy duty concrete pontoon arrangement constructed using a solid monolithic flotation system. This is protected by a heavy duty polyethylene skin that is tough, flexible, and able to withstand heavy impact.

It also allows the system to expand and contract independently from the flotation and the reinforced concrete deck. The specially formulated concrete pontoon deck has an average concrete thickness of 125mm and is smartly finished with a customized aluminium waler that incorporates a unique press in bump rubber fender which eliminates the need for screws.

The Concrete Pontoon System ranges of concrete floating pontoons are constructed using a solid monolithic flotation system and are functional, durable and aesthetically pleasing. The flotation is protected by a heavy duty sealed polyethylene skin that is UV stabilised, tough, flexible and able to withstand heavy impact.

The top of the pontoon is smartly finished with a customized aluminium waler and marine carpet. Purpose constructed accessories such as live bait wells, sink stations, lights and chairs, in addition to utility services pedestals, can easily be incorporated.



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Pontoons can be secured by a variety of methods to allow for site specific factors and application needs. Piles sunk into the sea bed and securely attached to the pontoon, while still allowing flotation for tide and weather conditions, are often chosen when maximum security for the berthing of a larger vessel is required.

The concrete deck has a 'broom' finish and all concrete surfaces are sealed with an epoxy based (or similar) sealant, which impregnates into the concrete deck. Utility services such as power, water, data and fire services can easily be incorporated via purpose built conduit ducts running inside the pontoon. The finished product is attractive, durable, element resistant and functional.

Expensive, regular maintenance of deck surface and underwater area as it gathers fouling. Also over a period of time, the top broom surface tends to become plain and slippery.

If part of pontoon gets damaged, entire pontoon has to be replaced.

High installation cost. Suitable for super yacht marina (marina with 50 mtr plus berth)

ALUMINIUM PONTOON

The Aluminium Pontoon System is a medium duty option that incorporates a custom extruded waler design that allows for an effective finish and versatility.

The flotation system is made of hard wearing polyethylene floats which bolt to the aluminium super structure and do not deteriorate in a marine environment. Hardwood timber decking or a variety of composite decking can be used to finish the surface.

The Aluminium Pontoon System is ideal for commercial and club marinas, with the timber decking providing a very pleasing aesthetic look and function.

The Aluminium Pontoon System uses polyethylene Roto moulded floats with an aluminium structure and a timber or composite deck. The finish is aesthetically pleasing and suitable for all types of commercial and club marinas and is exported to a number of countries.

Expensive, regular maintenance of deck surface and underwater area as it gathers fouling. Aluminium parts tends to get decayed over period of time requiring replacement.

If part of pontoon gets damaged, entire pontoon has to be replaced.

High installation cost.



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HDPE MODULAR SYSTEM PONTOON

HDPE Modular Pontoon System is an alternative medium duty option that is applicable to situations where a smart appearance, flexibility and an easily reconfigured option is required.

HDPE Pontoon is manufactured by the rotational / blow moulding of high density polyethylene and allows the production of modular pieces that are tough, flexible, UV resistant and do not deteriorate in a marine environment. The modules can withstand heavy conditions and tough treatment, making them ideal for public use applications where accessories such as hand rails and child safety ladders may be required.

A specially profiled surface ensures slip resistance and the ease with which modules can be connected make this style of pontoon particularly useful for swimming platforms, floating walkways, aquaculture, marinas, helipads, floating work platforms, settlement ponds, sewage treatment works and ramps for boat launching and retrieval.

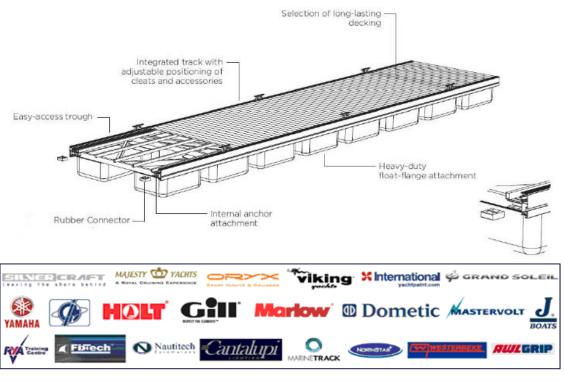
Cost effective, most aesthetic appearance, maintenance free product and most modern material being used for marina pontoon construction.

It is modular system, so if at all if any part gets damaged, only a small module needs to be replaced and not the entire pontoon.

Easy to install. All manual work no crane cost etc during installation.

Aluminium Marina Pontoon System

Aluminium Marina Pontoon is made of 6061-T6 marine aluminium alloy profiles



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Two noise-free rubber connectors

Structure

Marina grade aluminum alloy 6061-T6

Custom lengths and width available

Fenders Non-marking PVC, wood, WPC or EPDM

rubber

Floats

Seamless, nominal 5mm thick polyethylene

shell

Filled with EPS foam having 15.0kg/m3

minimum density

Moorings

Cleats and bollards

Possibility of different finishes

Easy repositioning

Buoyancy Available up to 300kg/m2

Connections

(10-ton capacity each)

Freeboard (Dead load)

Available up to 650mm nominal

Custom freeboard available

Custom buoyancies available

Anchorings Various anchoring methods are available for

this system

See Anchoring specifications

Decking

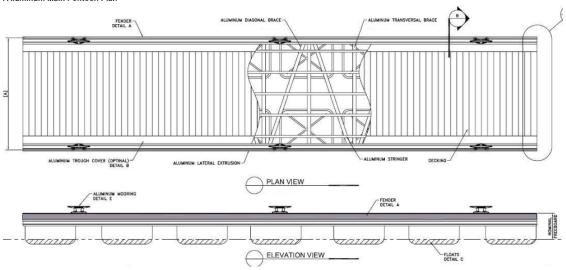
25mm thick planks

Fastened with 316L stainless steel screws

Anti-slip surface

Easy to replace

. Aluminum Main Pontoon Plan

































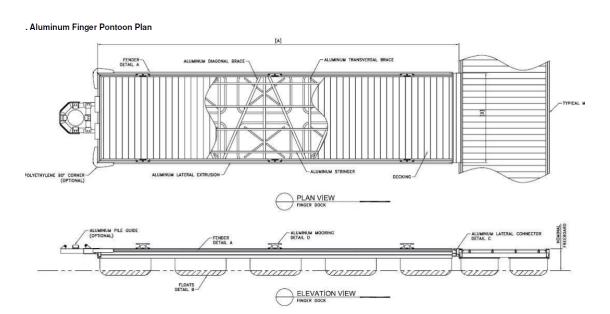


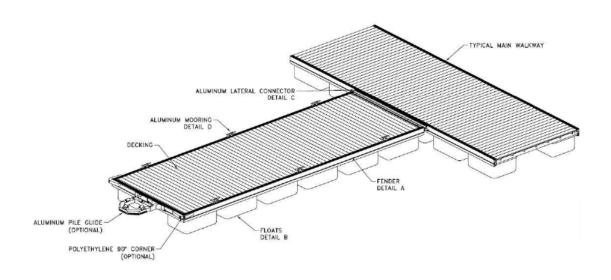
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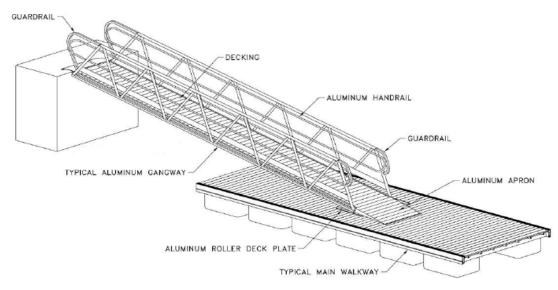
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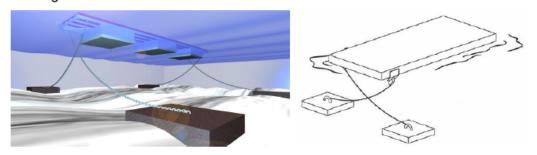
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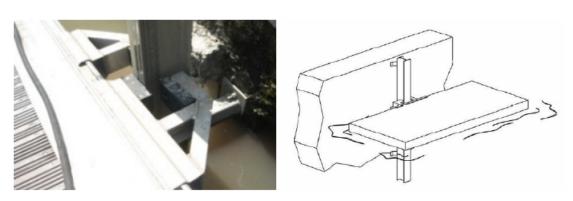
Aluminum Gangway Plan



Anchoring



Chain System



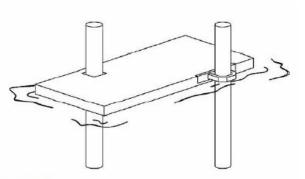


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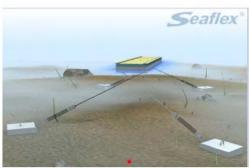
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Pile System





Mooring





Mooring Ring

316L Stainless steel mooring ring, with plate for fixing pontoon, fixed by 316L stainless bolts and screws. The tensile resistance is 1 ton.

Aluminum Cleat

Aluminum cleat chill fused and chill hardening, fixed by 316L stainless steel bolts and screws. The tensile resistance is 3 ton.



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Stainless Steel Cleat

Stainless Steel cleat, fixed by 316L stainless steel bolts and screws. The tensile resistance is 5 ton.



Stainless Bollard

Mooring Bollards in stainless steel 316L, cylindrical shaped, with 4 mm thickness steel body with transversal beam and "mirror- finished". The tensile resistance varies from 2.5t to



Galvanized Cast Iron Bollard

Stainless Steel cleat, fixed by 316L stainless steel bolts and screws. The tensile resistance is 5 ton.

I. HDPE Float & Pile Caps



PF-004: 1200x800x550mm PF-004H: 1200x800x650mm

PF-005: 1800x1400x400mm



PF-007: 1420x900x550mm PF-007H: 1420x900x650mm

PF-007T: 1420x900x700mm



PF-008: 1200x610x500mm



PF-009: 1200x1100x500mm PF-009H: 1200x1100x620mm

PF-010: 1730x1185x600mm



PF-011: 1380x950x550mm

PF-011H: 1380x950x650mm



PF-012: 1650x620x500mm

PF-012WR: 1650x920x500mm PF-012WT: 1650x960x500mm



PF-013: 1580x1180x650mm













































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PC-7: Dia. 742mm, Height 800mm





PF-015: 2620x1310x800mm

1. The EPS contents in the pontoons have a 0.94 lbs. per cubic foot density

2. allowed an inaccuracy of $\pm 5\%$ of the technical size









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Galvanised Steel Marina Pontoon System

Galvanised Steel Marina Pontoon is made of Hot Deep marine grade steel





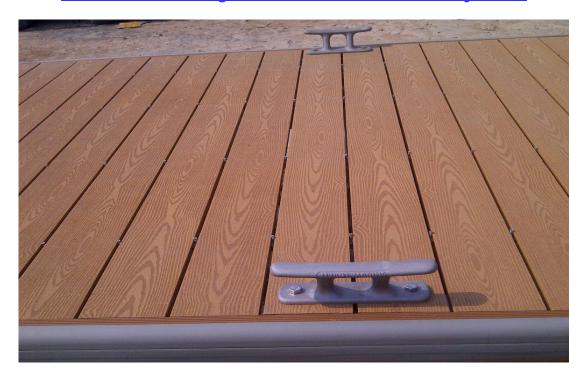
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WPC Deck King For Marina Pontoon System



WPC Decking - New Eco Friendly Material

WPC decking is a new and most modern eco-friendly technology based decking for outdoor marina use. WPC means Wood Plastic Composite. WPC decking is produced from PE and bamboo fibre. Reclaimed PE is very sustainable. Bamboo is very environmental. WPC decking has high density.

WPC is extruded with PE and bamboo power by professional wood-PE extruding machine under high temperature and pressure. WPC standard length is 2.2m and 2.9m

WPC Features:

- 1) Sustainability: WPC used fast-growing resources bamboo to replace non-renewable resources of petroleum products PE.
- 2) Circular economy: Bamboo processing plant with sawdust and debris, modified to take the means of production of ultrafine powder of modified bamboo.



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Made from PE modification modified PE resin. Granulation with a twin-screw mechanism into a bamboo / PE composite resin. With profile extrusion machines and injection machines scale production of bamboo / PE composite profiles.



WPC Advantages:

- 1) Natural bamboo, wood textures
- 2) Various colours
- 3) Anti-surge, anti-mildew, anti-decay
- 4) Insulation, sound insulation resistance
- 5) Anti-aging, stagnation flammable adjustable
- 6) No formaldehyde, benzene and other harmful substances
- 7) No radioactivity



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Main Pontoon and Finger Pontoon Standard Size Range

Range (W x L)	Main Pontoon	Finger Pontoon
700 x 6000 MM		YES
900 x 8000 MM		YES
1200 x 10000 MM		YES
1500 x 12000 MM		YES
2000 x 8000 MM	YES	
2000 x 12000 MM	YES	
2500 x 8000 MM	YES	
3000 x 12000 MM	YES	

- Free Board Would depend on the Float Selected
- We can custom make the sizes as per requirement as well
- We can also supply concrete pontoon if required

OTHER ITEMS AND ACCESSORIES FOR MARINA



Service Bollard with Water and Electricity Meter







Life Buoy & Portable Extinguisher Station



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Fuelling Station and other Environmental Protection Items and Equipment's

Some Completed Key Projects in India

Project Details	Ezhimala, Kerala Indian Naval Academy Marina for Boats
System	Aluminium Pontoon
Area	173 Sq Mtr
Anchoring	Concrete block & chain
Year	March 2012









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Project Details	Hussein Sagar lake, Hyderabad, Sail boat and rescue boat launch and recovery Ramp
System	HDPE Pontoon
Area	80 Sq Mtr
Anchoring	Concrete blocks, with
	ropes
Year	July 2011









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Project Details	UB Group, Goa Mini Marina with Jet Ski Drive on Dock
System	HDPE Pontoon
Area	185 Sq Mtr
Anchoring	Concrete blocks, with pulley & ropes & pilling
Year	November 2010



Project Details	INS Jarawa, Indian Navy, Port Blair in Sea, Boat parking and Para Sailing launch Platform
System	HDPE Pontoon
Area	75 Sq Mtr
Anchoring	Concrete blocks, with
	pulley & ropes
Year	December 2009









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Project	Tata Power Hydro
Details	Station, Bhira,
	Maharashtra, Boat
	Parking pontoon
System	HDPE Pontoon
Area	65 Sq Mtr
Anchoring	Concrete blocks, with
	pulley & ropes
Year	February 2009







	1
Project	Ratnagiri,
Details	Maharashtra, Boat
	parking pontoon
System	HDPE Pontoon
_	
Area	20 Sq Mtr
Anchoring	Concrete blocks, with
	pulley & ropes
Year	March 2008





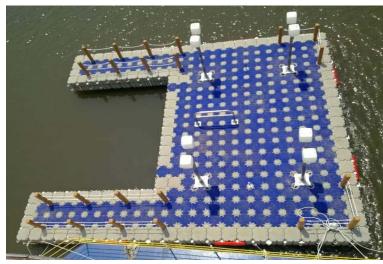
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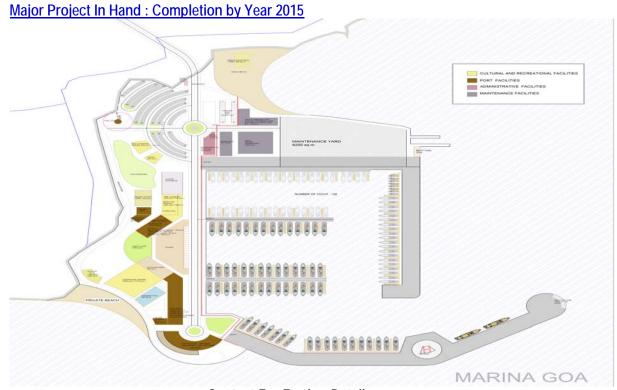
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Project	GOA, Passenger wait
Details	area and Boat
	Parking pontoon
System	HDPE Double Deck
_	Pontoon
Area	200 Sq Mtr
Anchoring	Concrete blocks, with
	pulley & ropes
Year	January 2008





Contact For Further Details

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