

PRODUCT DATA SHEET

FRP MONOBLOCK PONTOON HEAVY DUTY SERIES



The Fibre Reinforced Polymer (FRP) Monoblock Pontoon from Majestic Marine Engineering provides the highest possible standard and comfort and the design of the pontoon makes it extremely stable. The use of the best quality materials available, coupled with our ISO 14001:2004 management and quality control system (providing the highest quality controlled manufacturing process) ensures that the pontoons enjoy a long life span. The pontoons are built to cope with the Middle Eastern climate and to withstand the extreme heat, UV and salinity conditions prevalent in the region. Pontoons can also be customised to suit other local climates and requirements, such as the low temperatures in Northern USA, Canada and Northern Europe amongst others.

FRP Monoblock Pontoons can be used where there is a requirement for high quality and stability and is ideally suited to heavy use areas such as commercial docks, super and mega yacht marinas and other purpose made applications. The pontoons can be used in wave and boat wake breaker applications as they are extremely robust and heavy enough to deflect wave energy.

The pontoons are manufactured out of a timber frame which is entirely encapsulated with multiple layers of bi-axial fibreglass mat, woven rovin, resin and finished with a high gloss finished top gelcoat layer. The central compartments of the pontoon are watertight and filled with EPS foam ensuring that, even in the unlikely event of the outer walls being breached, the pontoon is rendered unsinkable. The submerged parts of the pontoons can be coated with antifouling paint, at the request of the Client, thus reducing the maintenance requirements at the early life of the project.

The pontoons are connected using our patented connection system which uses rubber bushes and 316 stainless steel bolts and plates to connect each set of pontoons together. The standard pontoons are designed to withstand waves and or boat wakes of 70cm although our system has been known to regularly be exposed to wakes of over 1.0m with no damage incurring.

Each pontoon is designed to accommodate electrical and water utility services conduits. Pontoons can be anchored with an elastic mooring or with a steel piled anchoring system according to the project, site and client requirements.

Type	MHW1000.250.55	MHW1000.300.55	MHW1000.350.55	MHW1000.300.85
Usage	Pontoons	Pontoons	Pontoons	Wave breaker
Standard Length Options	10.0m Standard (6.0m to 15m also available)			
Standard Width Options	2.5m	3.0m	3.5m	3.0m
Height	0.8m	0.8m	0.8m	1.1m
Gross Weight / Displacement	60.0KN	72.1KN	84.1KN	81.0KN
Approx Freeboard (under dead load)	0.55m	0.55m	0.55m	0.85m
Connectors (30mm dia SS316 bolts with nuts and washers)	6	9	9	9
Connector breaking load	65 ton per joint	65 ton per joint	65 ton per joint	65 ton per joint
Design Live Load	5.00KN/m ² or 500kg/m ²			
Standard Decking	Wood Polymer Composite Decking, SS Grating or Reinforced Concrete Slab			
Constructed with treated pine timber frame and encapsulated with multiple layers of Bi-Axial Fibreglass Mat, Woven Rovin, Resin and Finished with a top gelcoat layer. The central compartments of the pontoon are watertight and filled with EPS foam if requested.				
Other dimensions can be offered upon request. Rights reserved for modifying sizes and specifications.				

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Photo of monoblock fibre reinforced polymer pontoons installed at the Rixos Hotel on The Palm, Jumairah, United Arab Emirates (top) and Mina Seyahi Super Yacht Marina, Dubai, United Arab Emirates (left) and 130cm freeboard pontoons for the RTA pontoon (below)



Photos of the production of FRP pontoons starting with the timber frame and then entirely encapsulated in fibre reinforced polymers to provide an extremely strong floating pontoon



Pontoons acting as wave breakers at Mina Seyahi