



Certificate No. 01-013250/019791

TYPE APPROVAL CERTIFICATE

This is to certify that this product, on the basis of the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

FLOATING PONTOON TYPE MCW

MANUFACTURER:



MAJESTIC MARINE ENGINEERING LLC

PO Box 122235, Dubai
UAE

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Rules for the classification of ships;
CRS Technical Circular QC-T-191.

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2023-02-12**

Place and date: Split, 2019-03-12

Seal

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

Floating pontoon type MCW is made of multiple layers of Fibre Reinforced Concrete (FRC) sheets with a single layer of bi-axial fibreglass mat and resin in between each sheet to make a multiple layers sandwich panel. The outer surface is then entirely encapsulated with multiple layers of biaxial fibreglass mat, woven rovin, resin and finished with a fire retardant top gelcoat layer. The central compartments of the pontoon are watertight and may be filled with EPS foam.

Pontoon dimensions:

length	6 - 20 m	height	1.095 m
breath	5.0 m	joint strenght	180 KN per bolt
freeboard	0.795 m		

APPLICATION / LIMITATIONS:

N/A

TYPE APPROVAL DOCUMENTATION:

**Product data sheet- Fibre reinforced concrete (FRC) monoblock pontoon heavy duty series.
Drawing "MCW Architectural details", No. MME 18087-ABD-PON-001, Rev.0.
Pontoon Structural Report, Rev. 3, October 2018.
Drawing "MCW Structural details", No. MME 18087-ABD-PON-005, Rev.0.
Pontoon Stability Report, Rev. 2, October 2018.
Drawing "MCW Pontoon to pontoon connection details " No. MME 18087-ABD-PON-006, Rev.0.
Drawing "Elastic anchoring point details" No. MME 18173-ABD-PON-004, Rev.0.
Drawing "Aluminum pile guide details" No. MME 18087-ABD-PIL-002, Rev.0.
FRC Pontoon Fabrication Method Statement, Rev. 0, February 2019.
Pontoon test report dated 2019.02.06.**

MARKING OF PRODUCT:

The product shall be marked with name of manufacturer, type of pontoon and serial number.

CONDITIONS FOR CERTIFICATION:

N/A