



Certificate No. 01-017317/0114026

TYPE APPROVAL CERTIFICATE

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

TYPE AND DESCRIPTION OF PRODUCT:

CONCRETE FLOATING PONTOON CLASS D FOR BERTHS IN MARINAS

MANUFACTURER:

CANAL HARBOR AND GREAT PROJECTS COMPANY Ismailia – Port Said Canal Road

District No. 6, P.O. 60

Ismailia

EGYPT

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: **2029-10-27**

Place and date: Split, 2025-10-27

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:

Concrete floating pontoon class D is made of concrete with grade 40/50. Pontoon reinforcement is made of steel bars and glass fiber reinforced polymer bars. Pontoon has six floating units filled with polyethylene foam. Pontoon has two prominent holes in the center line for spuds-large pills that can be driven into the seabed to securely fix the pontoon in place. Decking is made of timber, composite, or concrete with anti-slip finish. Connections and fixtures, such as mooring points and cleats, are installed and securely anchored.

Pontoon dimensions:

length 12.0 m	breadth (concrete) 3.0 m
breath (overall) 3.0 m	height 1.55 m
freeboard 0.45 m	joint strength 2x217 kN

APPLICATION / LIMITATIONS:

- Significant wave height up to 0.45 m
- Mooring of crafts length up to 20 m

TYPE APPROVAL DOCUMENTATION:

1. Technical description of the floating structure, Sep. 2025, rev0, CEBU Ltd.
2. General plan of floating structure, CEBU Ltd.
3. Technology and standards, Sep. 2025, rev0, CEBU Ltd.
4. List of materials and products, Sep. 2025, rev0, CEBU Ltd.
5. Drawings of structure, Drawing no. MW-A1-202
6. Details of the joints between the pontoons, Sep. 2025, rev0, CEBU Ltd.
7. Calculations of longitudinal strength, Aug. 2025, rev0, CEBU Ltd.
8. Concrete pontoon Class D Standards, May 2025, rev0, CEBU Ltd.
9. Details of the bitts for bollards, CEBU Ltd.
10. The tension test results, CEBU Ltd.
11. Quality Assurance Report, 23 September 2025.

MARKING OF PRODUCT:

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

CONDITIONS FOR CERTIFICATION:

None.