



Certificate No. 01-016699/0112797

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:

WATERTIGHT CAST ALUMINIUM HATCHES HDWT_TH/ST FOR PRESSURE UP TO 0.3 bar;

TYPE:

1. HDWT50AL/ST_TK maximum clear opening 500 x 500 mm
2. HDWT56AL/ST_TK maximum clear opening 500 x 600 mm
3. HDWT60AL/ST_TK maximum clear opening 600 x 600 mm

MANUFACTURER:



BOFOR DENİZCİLİK SAN VE TİC LTD ŞTİ.
İmes San Sit C Blok 308. Sok NO:18
Yukarı Dudullu-Umraniye, 34775, ISTANBUL - TURKEY

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

- CRS Rules for the classification of ships, Part 3-Hull equipment

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

APPROVAL IS VALID UNTIL: **2028-08-29**

Place and date: Split, 2024-08-29

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:

Watertight aluminum alloy cast flush hatches with steel flush frame are clear size opening between 500x500 and 600x600 mm. The hatches are bisquare central operated. All types of hatches are designed to withstand a maximum water pressure of 0.3 bar (3.0 m pressure head). The hatch structures are all adequately stiffened with intercostals. Handle locking.

APPLICATION / LIMITATIONS:

- For closing of openings on the watertight bulkheads on:
 - Passenger ships carrying not more than 36 passengers.
 - Large commercial Short Range Yachts (navigation within 60 nautical miles from safe haven);
 - Passenger ships for daily trips sailing in navigation area 6, 7 and 8 from Aprile 1st until October 31st (summer period).
- The hatch installation has to be in accordance with the manufacturer's recommendation.
- After installation, in order to check watertightness of sealing, hose test (water-jet) is to be performed in presence of CRS Surveyor.

TYPE APPROVAL DOCUMENTATION:

- Technical drawings "HDWT50AL/ST_TK" 20. 12. 2023.
- Technical drawings "HDWT56AL/ST_TK" 20. 12. 2023.
- Technical drawings "HDWT60AL/ST_TK" 20. 12. 2023.
- Approval Letter 140/TB/AMA/0112797 dated 2024-01-22.
- CRS test report for prototype hatch testing at Bofor Marine Products in Istanbul on 2024-08-08.

MARKING OF PRODUCT:

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

CONDITIONS FOR CERTIFICATION:

Croatian Register of Shipping shall issue particular certificate on supervision for each manufactured quantity (CRS form QF-PB-30).