



Certificate No. 01-016474/0113012

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 ALUMINIUM HATCH CLEAR OPENING 600x600 FOR PRESSURE UP TO 0.25 bar; TYPE:

1. HDWT60 maximum clear opening 600 x 600 mm
2. HDWT60_TH maximum clear opening 600 x 600 mm
3. HDWT60_TK maximum clear opening 600 x 600 mm
4. HDWT60TH180 maximum clear opening 600 x 600 mm
5. HDWT60THLO maximum clear opening 600 x 600 mm
6. HDWT60G maximum clear opening 600 x 600 mm
7. HDWT60TH_250C 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: **2028-06-05**

Place and date: Split, 2024-04-24

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 aluminium cast hatches are all clear size opening 600x600 mm. All types of hatches are designed to withstand a maximum water pressure of 0.25 bar (2.5 m pressure head). The hatch structures are all adequately stiffened with intercostals. Handle locking mechanism varies in design and frame features are delivered both steel and aluminium flush or with coaming varied height.

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 April 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.
- This TAPP Certificate is valid only to watertightness.

TYPE APPROVAL DOCUMENTATION:

- Technical drawings "HDWT series Watertight Hatch" and Testing plan from Approval Letter 2979/TB/MS/VK/0110333 dated 2019-12-18.
- CRS test report for prototype hatch testing No. 19188 performed at Bofor Marine Products in Istanbul on 2019-12-19.

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).