



Certificate No. 01-016472/0113013

## 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 FLUSH SURFACED STEEL DOOR FOR PRESSURE UP TO 0.5 bar; TYPE:

1. DWTFLLST maximum clear opening 518 x 518 mm
2. DWTFLLST maximum clear opening 728 x 1028 mm
3. DWTFLLST maximum clear opening 1000 x 2000 mm

MANUFACTURER:



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 flush steel door is covering clear size opening range from 518x518 to 1000x2000 mm when the same construction design is used as described below. All types of door are designed to withstand a maximum water pressure of 0.5 bar (5.0 m head). The thickness of the door leaf plate is 5 mm and the door is stiffened with perimetrically set U profile and intercostal flat bars. It has a central handle locking mechanism connected to locking dogs. The tightness is secured with neoprene gasket.

**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 1<sup>st</sup> until October 31<sup>st</sup> (summer period).
- The door installation has to be in accordance with the manufacturer's recommendation.
- After installation, the test is to be performed in presence of CRS Surveyor in order to check watertightness of sealing.
- This TAPP Certificate is valid only to watertightness.

**TYPE APPROVAL DOCUMENTATION:**

- Technical drawings "D0A/D01 series Weathertight Doors" and Testing plan from Approval Letter 2979/TB/MS/VK/0110333 dated 2019-12-18.
- CRS test report for prototype door testing No. 19191 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).