



CROATIAN REGISTER OF SHIPPING

Potvrda br. **01-014339/0110640**  
Certificate No.

## POTVRDA O TIPNOM ODOBRENJU TYPE APPROVAL CERTIFICATE

Potvrđuje se da ovaj proizvod udovoljava Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda.  
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.

TIP I OPIS PROIZVODA:  
TYPE AND DESCRIPTION OF PRODUCT:

### VODONEPROPUSNA OVJEŠENA BRODSKA VRATA ZA TLAK DO 0.5 BARA RAD-WTD-TS800H5M

WATERTIGHT HINGED SHIP DOOR FOR PRESSURE UP TO 0.5 BARS TYPE  
RAD-WTD-TS800H5M

PROIZVOĐAČ:  
MANUFACTURER:



2. Ulica br. 15, 20271 BLATO • HRVATSKA - CROATIA

PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:  
THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

HRB: Pravila za klasifikaciju brodova, Dio 3. – Oprema trupa;  
IACS UI SC156  
SOLAS II-1

CRS: Rules for the classification of ships, Part 3. – Hull equipment;  
IACS UI SC156  
SOLAS II-1

DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEDINI.  
FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

ODOBRENJE VRIJEDI DO: **2024-09-14**  
APPROVAL IS VALID UNTIL:

Mjesto i datum: Split, 2020-09-14  
Place and date:

M.P.  
(Seal)

Marinko Popović, dipl.ing.

NAPOMENA: Ova potvrda nije valjana ako se proizvod ili način njegove proizvodnje promijenio u odnosu na tipno ispitani proizvod. Proizvođač treba obavijestiti Hrvatski registar brodova o bilo kojoj izmjeni na proizvodu kako bi ishodio valjanu potvrdu.

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.

**PODROBNJI OPIS PROIZVODA:**  
*DETAILED PRODUCT DESCRIPTION:*

Čelična ovješena vrata izgrađena su od krila debljine 7 mm s tri horizontalne i jednom vertikalnom ukrepom KC 40x40x4 mm, praznjice visine 80 mm, s dva (2) šarnira i jednim polukužnim zatvaračem, te sa osam (8) točaka zatvaranja. Opremljena su indikatorom zatvorenosti povezanim sa komandnim mostom, uređajem za sprječavanje neautoriziranog otvaranja i natpisom na vratima da ih je potrebno držati zatvorene tijekom plovidbe.

*Steel hinged door is built of plate of 7 mm thickness with three horizontal and one vertical stiffener KC 40x40x4 mm, coaming of 80 mm in height, equipped with two (2) hinges, one closure lever, and eight (8) points of closure. It is fitted with indicators (open/close) on the bridge, with the device which prevents unauthorized opening and notice affixed to the door that is to be kept closed.*

**Najveća dimenzija svijetlog otvora : 1800 x 800 mm**  
*Max. door clear light opening: 1800 x 800 mm*

**Najmanja dimenzija svijetlog otvora : 1400 x 600 mm**  
*Min. door clear light opening: 1400 x 600 mm*

**PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:**  
*APPLICATION / LIMITATIONS:*

Za zatvaranje otvora na unutrašnjim nepropusnim pregradama putničkih i trgovačkih brodova. Vrata su projektirana za najveći tlak od 50 kN/m<sup>2</sup>. Vrata ugrađena ispod nepropusne, odnosno glavne palube moraju biti "permanently closed at sea", i moraju imati uređaj koji sprječava neautorizirano otvaranje. Vrata instalirana na ili iznad glavne palube moraju biti „normally closed at sea“, a prema potrebi mogu ih otvarati samo autorizirani članovi posade. Nakon montaže potrebno je vrata ispitati na nepropusnost (brtljenje) polijevanjem vodenim mlazom u prisustvu inspektora HRB-a.

*For closing of openings on the internal watertight bulkheads of passenger and cargo ships. The door is designed to withstand maximum water pressure of 50 kN / m<sup>2</sup>. The door install below the bulkhead or freeboard deck shell be "permanently closed at sea", and should be fitted with a device to prevent unauthorized opening. The door install at or above the bulkhead or freeboard deck shell be "normally closed at sea", and if necessary may be used by authorized personal. After installation, in order to check water-tightness of sealing, hose (water-jet) test is to be performed in presence of CRS Surveyor.*

**DOKUMENTACIJA ZA TIPNO ODOBRENJE:**  
*TYPE APPROVAL DOCUMENTATION:*

**Tehnička dokumentacija:**

Nacrt br. 235.04.002 Vodonepropusna šarnirska vrata RAD-WTD-TS-800H5M-Proračun čvrstoće  
Nacrt br. 235.04.100-235.04.650 Vodonepropusna šarnirska vrata 1800x800  
Nacrt br. 235.13.900 Plan ispitivanja RAD-TD-TS800/H5M/ RAD-TD-TS800/H5M  
Certifikati limova i dodatne opreme  
Izveštaj HRB o ispitivanju prototipa vrata od 2020-08-19.

Type: *Technical documentation:*

*Drawing No: 235.04.002 Watertight hinged door RAD-WTD-TS-800H5M-Strenght calculation*

*Drawing No: 235.04.100-235.04.650 Watertight hinged door 1800x800 mm drawings*

*Drawing No: 235.13.900 Testing plan RAD-TD-TS800/H5M/ RAD-TD-TS800/H5M*

*Certificates of plates and additional equipment.*

*CRS test report for prototype door testing dated 2020-08-19.*

**OZNAČAVANJE PROIZVODA:**  
*MARKING OF PRODUCT:*

**Proizvod se mora označiti imenom proizvođača, oznakom proizvoda te žigom HRB.**

*The product shall be marked with name of manufacturer, type designation and CRS stamp.*

**UVJETI ZA CERTIFIKACIJU:**  
*CONDITIONS FOR CERTIFICATION:*

**Hrvatski registar brodova izdaje posebnu potvrdu o nadzoru za svaku pojedinu proizvedenu količinu (HRB obrazac QF-PB-30).**

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