



Potvrda br. **01-017273/0113323**
Certificate No.

POTVRDA O TIPNOM ODOBRENJU TYPE APPROVAL CERTIFICATE

Potvrđuje se da je ovaj proizvod, u skladu s Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda.
This is to certify that this product, on the basis of 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 VRLJEDI DO: **2028-09-14**
APPROVAL IS VALID UNTIL:

Mjesto i datum: Split, 2025-08-01
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 polukružnim zatvaračem, te sa osam (8) točaka zatvaranja. Opremljena su indikatorom zatvorenosti povezanim sa komandnim mostom, uređajem za sprječavanjem 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 **Najmanja dimenzija svijetlog otvora: 1400 x 600 mm**
Max. door clear light opening: 1800 x 800 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/m². Vrata ugrađena ispod nepropusne, odnosno glavne palube moraju biti "permanently closed at sea", moraju imati uređaj koji sprječava neautorizirano otvaranje i indikator na komandnom mostu koji automatski pokazuje da li su vrata zatvorena i osigurana. Vrata instalirana na ili iznad glavne palube moraju biti „normally closed at sea“, brzozatvarajućeg tipa, imati daljinski indikator i zvučni ili vizualni alarm, a prema potrebi mogu ih otvarati samo autorizirani članovi posade.

Upravljačka kutija vrata mora biti što je moguće bliže pregradi na koju su vrata instalirana da bi se smanjio utjecaj u slučaju oštećenja broda. Vrata moraju biti pozicionirana u području zone oštećenja B/5. Nakon montaže potrebno je vrata ispitati na nepropusnost (brtvljenje) 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/m². The door install below the bulkhead or freeboard deck shall be "permanently closed at sea, be fitted with a device to prevent unauthorized opening and an indicator on the navigation bridge to show automatically when each door is closed and all door fastenings are secured.

The door installed at or above the bulkhead or freeboard deck in passenger ships shall be "normally closed at sea", be of quick acting or single action type, have remote indicator and audible or visual alarm, and if necessary may be used by authorized personal.

Watertight door controls shall be kept as closed as practicable to the bulkhead in which the doors are fitted, in order to minimize the likelihood of them being involved in any damage which the ship may sustain. The door shall be located inboard the damage zone B/5.

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

Izvještaj 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.

OZNAČAVANJE PROIZVODA:
MARKING OF PRODUCT:

**Proizvod se mora označiti imenom proizvođača, oznakom proizvoda te žigom HRB.
Ugradnju vodonepropusnih vrata HRB će odobriti za svaki pojedinačni slučaj.**

*The product shall be marked with name of manufacturer, type designation and CRS stamp
Installation of the watertight door shall be approved by CRS for each particular case.*

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).*