



**EC TYPE EXAMINATION (MODULE B) CERTIFICATE
(EC-US MRA)**

No.	01-011791/018263
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THIS IS TO CERTIFY:

That Croatian Register of Shipping did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with requirements of Marine Equipment Directive (MED) 96/98/EC as last amended by directive (EU) 2015/559, subject to any conditions in the schedule attached hereto.

TYPE AND DESCRIPTION OF PRODUCT

"B-0" CLASS FIRE RESISTING INSPECTION DOOR

ANNEX A.1 NO AND ITEM DESIGNATION

A.1/3.16 - Fire doors

MANUFACTURER:

**RAI - Riječki akustički inženjering d.o.o.
Lužine 1, 51000 Rijeka, CROATIA**

REGULATIONS AND STANDARDS (in accordance with Annex A.1, Directive)

**SOLAS 1974 as amended, Reg. II-2/9
IMO Res. MSC.307(88) - (2010 FTP Code)**

USCG Module B number: 164.136/EC2489

NOTICE:

1. Further details of the product and conditions for certification are given overleaf.
2. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.
3. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.
4. The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.
5. In case limitations of use apply, these should be indicated of in the Schedule of Approval.
6. This product has been assigned **U.S. Coast Guard Module B number** as stated above to note type approval to Module B only as it pertains to obtaining US Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.

Issued by Croatian Register of Shipping, notified body number 2489.

This certificate is valid until: **2020-09-15**

Place and date: **2016-09-15** Seal

Signature
Marinko Popović, dipl. ing.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

"B-0" class inspection door are single leaf hinged door with door leaf composed of rockwool insulation "KNAUF INSULATION MHTB 700" with 150 kg/m³ density and 23.5 mm thickness, lined from both sides with steel sheet 0,6 mm in thickness and fixed with 1 mm thick steel "U" profile. The insulation is bonded with adhesive to the steel sheets.

Door frame is made of 1.5 mm thick steel profile filled with rockwool insulation (same type as for door leaf).
Door leaf is attached to the door frame by piano hinge on one side and steel lock on the three sides.

2. APPLICATION/LIMITATION OF USE

"B-0" class fire protection on ships.

3. DESIGN DRAWINGS AND SPECIFICATIONS

Drawings attached to the Test Report No. I-4035/16-2, enclosure no. 10.

4. TYPE TEST RECORDS/LABORATORY RECOGNITION STATUS

The testing in accordance with IMO 2010 FTP Code, Annex 1, Part 3 has been carried out in LABORATORIJ ZA TOPLINSKA MJERENJA d.o.o., Oroslavje, Croatia. The testing results have been stated in the Test Report No. I-4035/16-2, dated 2016-09-13.

5. MATERIALS OR COMPONENTS REQUIRED TO BE TYPE APPROVED OR TYPE TESTED

The following components shall to comply with the requirements of MED 96/98/EC, as amended, and be wheelmarked :

- the insulating material "KNAUF INSULATION MHTB 700", density 150 kg/m³, Knauf Insulation d.o.o.
- the used adhesive material

6. OTHER MATERIALS AND/OR COMPONENT

The surface materials, if used, have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

7. PRODUCTION SURVEY REQUIREMENTS

The manufacturer is allowed to affix the Mark of Conformity to equipment referred and to issue a Declaration of Conformity as long as either of the following is fulfilled:

Module D - The quality system for production and testing shall be approved by the Notified Body or,

Module E - The quality system for inspection and testing shall be approved by the Notified Body or,

Module F - Compliance of the products in this EC Type-Examination Certificate is to be verified by the Notified Body who shall also issue a Certificate of Conformity .

8. ONBOARD INSTALLATION AND MAINTENANCE REQUIREMENTS

Installation shall be performed according to manufacturer's instruction.

Each product is to be supplied with its manual for installation and maintenance.

9. MARKING AND IDENTIFICATION



xxxx/yy

Subject to compliance with the conditions in this Schedule of Approval which forms part of certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

xxxx - the number of the Notified Body undertaking surveillance module (2489 in case of CRS)

yy - the last two digits of year mark affixed

This product has been assigned US Coast Guard Modul B number 164.108/EC2489. In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not CRS, such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly.

Note: For product placed on board U.S. flagged ships there is not declaration of conformity required to meet U.S. Coast Guard required.

10. OTHERS

This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

- END OF CERTIFICATE -