



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

No.	01-010661/017165
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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 2013/52/EU, subject to any conditions in the schedule attached hereto.

TYPE AND DESCRIPTION OF PRODUCT

"B-15" CLASS FIRE RESISTING BULKHEAD TYPE "TPS-2" 50 mm

ANNEX A.1 NO AND ITEM DESIGNATION

A.1/3.11 - "A" and "B" class divisions fire integrity - (b) "B" class fire divisions

MANUFACTURER:

**3. MAJ TIBO d.d.
Dalmatinskih brigada 17, 51211 Matulji, CROATIA**

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

**SOLAS 1974 as amended, Reg. II-2/3.4 and Reg. II-2/9
IMO 2010 FTP Code**

USCG Module B number: 164.108/EC2489

NOTICE:

- Further details of the product and conditions for certification are given overleaf.
- 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.
- 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.
- 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.
- In case limitations of use apply, these should be indicated of in the Schedule of Approval.
- 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: **2019-01-09**

Place and date: **2015-01-09**

Seal

Signature
Marinko Popović, dipl. ing.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Fire retarding material is mineral wool "KNAUF INSULATION MHTB 700" (formerly named TERVOL BS-15), with 150 kg/m³ density and 48 mm thickness, lined from both sides with steel plate 0,6 mm in thickness. Total thickness of panel is 50 mm.

Adhesive "ICEMA R145/8S" (or „COSMO PU 160.460“ or „KORAPUR 201“) is used between steel plates and mineral wool for bonding.

The panels are fitted together by joint panel sides of male/female type.

2. APPLICATION/LIMITATION OF USE

"B-15" class fire protection on ships.

3. DESIGN DRAWINGS AND SPECIFICATIONS

Drawing No. PB-15-2008-00 "B-15 CLASS BULKHEAD" and drawing No. PB-15-2008-01 "TIBO PANELING SYSTEM TPS-2" (drawings attached to the Test Report).

4. TYPE TEST RECORDS/LABORATORY RECOGNITION STATUS

The testing in accordance with IMO 2010 FTP Code, Part 3 (IMO Resolution MSC.307(88)) has been carried out in LABORATORIJ ZA TOPLINSKA MJERENJA, Stubička Slatina, Croatia. The testing results have been stated in the Test Report No. I-3856/14-1, dated 22nd July 2014.

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

The following components shall 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 adhesive materials "ICEMA R145/8S" or „COSMO PU 160.460“ or „KORAPUR 201“.

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.

9. MARKING AND IDENTIFICATION



2489/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.

(yy = 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

- Type test performed with adhesive materials "ICEMA R145/8S", „COSMO PU 160.460“ and „KORAPUR 201“.
- 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 -