



European notified body
Identification number 0736

EC-Type Examination (Module B) Certificate

Certificate No. **111.074**

U.S. Coast Guard Approval No. **164.136/EC0736/111.074**

Name and address of the manufacturer: R&M International GmbH
Schellerdamm 22-24
21079 Hamburg (Germany)

Date of issue: **15.08.2016**

Annex A.1 Item No. & item designation: **A.1/3.16 – Fire Doors**

Product designation: Single leaf door type B-15 class

Product Type: **Door with clamping frame B-15 type KRT-VL**

Intended purpose: "B" class door according to SOLAS 74/88 Reg. II-2/9, as amended.

Testing based on (Specific standard): IMO Resolution MSC.307 (88)-(FTP-Code 2010)*
*) = not applicable accordance chapter 8.3 IMO Resolution MSC.307 (88)
IMO Resolution MSC.61(67)-(FTP-Code) Annex 1, Part 3
IMO MSC.1/Circ. 1319

Remarks: see page 2 and 3

The type tested was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 96/98/EC as amended by Directive (EU) 2015/559 subject to any conditions in the schedule (part of this certificate).

This certificate may only be used in connection with module(s) **D, E or F** of this directive.

Expiry date: **14.08.2021**



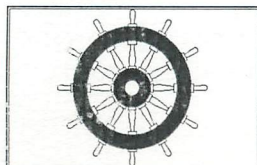
19 Signature (Niehus)

The approval of the installed equipment will be in force beyond the validity date until it is revoked!

Note 1: 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.

Note 2: 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.

Note 3: 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.



xxxx/yy

Note 4: "Wheelmark" Format

YY Last two digits of year mark affixed.

XXXX Notified Body number undertaking surveillance module

Technical data / approved drawings and additional conditions and remarks:

1.

This EC-Type Examination Certificate is based on the following document:

- Test Report No. PG12372 issued by "Danish Institute of Fire and Security Technology", 2650 Hvidovre (DK), on 14.07.2011.

2.

This EC-Type Examination Certificate provides that the assembly of the single leaf hinged door type B-15 coincides in all items with the construction as described in number 4 and 5 and the enclosures to the Test Report No. PG12372.

3.

All measurements of the single leaf hinged door type B-15 must be in accordance with the following drawing nos. (enclosures to the Test Report No. PG12372):

KRT-VL_FT-05.2011_1-7 (Rev.0),

KRT-VL_FT-05.2011_2-7 (Rev.0),

KRT-VL_FT-05.2011_3-7 (Rev.0),

KRT-VL_FT-05.2011_4-7 (Rev.0),

KRT-VL_FT-05.2011_5-7 (Rev.0),

KRT-VL_FT-05.2011_6-7 (Rev.0)

KRT-VL_FT-05.2011_7-7 (Rev.0)

They are only allowed to be changed in compliance with the Test and Certification body of the Ship Safety Division.

4.

The size of clear opening of the door is 798 x 1900 mm (width x height).

5.

Thickness of the door: 50 mm

6.

Accordance to MSC.1/Circ. 1319 the inspection door may be marginally larger on following conditions:

- dimensions (width, height) are not more than 15 % above those of the tested door and
- the surface area of the door is not more than 10 % above that of the tested door and
- the door design does not deviated in any other aspect from the tested.

7.

As insulation material has to be used:

- SeaRox SL 440 (density: 150 kg/m³)

EC-Type Examination Certificate No. MED-B-8714, issued by DET NORSKE VERITAS

- SeaRox SL 480 (density: 200 kg/m³)

EC-Type Examination Certificate No. MED-B-8714, issued by DET NORSKE VERITAS

- SeaRox SL 320 (density: 60 kg/m³)

EC-Type Examination Certificate No. MED-B-8714, issued by DET NORSKE VERITAS

- Insulfrax Paper (density: 150 kg/m³)

EC-Type Examination Certificate No. CMC10065, issued by DBI Certification A/S

8.

The non-combustible insulation material as per Test Report No. PG12372 may be replaced by a different one, provided that its composition and physical properties (e.g. heat conductivity, density and thickness of the material) correspond with the tested material and an approval as per Directive 96/98/EC, as amended, has been obtained.

This has to be proved to the Ship Safety Division beforehand in written form.

9.

As adhesive has to be used:

Icema R 145/31 S

EC-Type Examination Certificate No. 118.180, issued by BG Verkehr - Ship Safety Division

10.

Surface materials which will be used must be not readily ignitable and approved by a European notified body.

11.

Hinges, locks, latches, shoot bolts, handles etc. should comply with the IMO Resolution MSC.307(88)-(FTP-Code 2010), Annex 1, Part 3, paragraph 2.6.2.1.

12.

The equipment shall be marked in accordance with Article 11 of the Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended.

13.

This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 09.08.2011 with a running time up to 31.08.2016.

14.

This EC-Type Examination Certificate may only be published or transmitted unabridged.

Note:

This product has been assigned a U.S. Coast Guard approval no. (USCG number) to note type approval to Module B only as it pertains to obtaining U.S. 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.

The U.S. Coast Guard approval number is:

164.136/EC0736/111.074

The equipment manufacturer has to be mark the equipment with this U.S. Coast Guard approval number.

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