



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00003U6
Revision No:
2

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Fire Doors

with type designation(s)
B-15M Connecting Door

Issued to
R & M International GmbH
Hamburg, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2022/1157,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511,
IMO MSC.1/Circ.1319

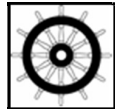
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-07-30**.

Issued at **Hamburg** on **2023-07-31**

DNV local unit:
Essen

Approval Engineer:
Roland Priebe



Notified Body
No.: **0098**

for **DNV GL SE**

.....
Christine Mydlak-Roeder
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), 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, and amended by Decision No 1/2018 dated February 18th, 2019.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

“B-15M connecting door”

is a fire door consisting of two door leaves positioned back-to-back with an 50 mm air gap in between. Each door leaf is composed of rock wool, of type ABM-SR (150 kg/m³) from Shanghai New Type Building Material Rock Wool Factory, with 0.7 mm steel plates on both sides. The steel plates are glued to the rock wool with an adhesive. Total door leaf thickness is 32 mm. Both door leaves are fastened to the frame with three hinges each. The door leaves open away from each other. The total construction is 114 mm thick.

The frame is made of 1.5 mm steel plate. The frame is fixed to the bulkhead with screws.

The door may be fitted with alternative insulation of type Tizol Flot 150 Lamella with nominal density of 150 kg/m³. The arrangement (installation, dimensions, orientation etc.) of the alternative insulation shall correspond to the arrangement of the originally used ABM-SR type rock wool.

For further details please refer to Type Examination documentation below.

Application/Limitation

Approved for use as an integrated part of fire retarding division of class B-15.

Maximum size of each door leaf: 940 mm x 2020 mm (width x height).
Maximum clear opening size: 900 mm x 2000 mm (width x height).

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

Type Examination documentation

Test Report No. FT10208 dated 22nd of June 2010 from Far East Fire Testing Centre (FEFTC), Shanghai, China.
Drawing Nos. FT.AD.B15-C.01 Rev. 0 and FT.AD.B15-C.03 Rev. 0 dated 27th of May 2009 from Alvedoor (Kunshan) Co., Ltd.
Assessment No. PHA11148A dated 17th of December 2018 issued by Danish Institute of Fire and Security Technology, Denmark.

Tests carried out

Tested according to IMO FTP Code Part 3 and in compliance with IMO 2010 FTP Code Ch.8.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, Mark of Conformity and USCG marking if applicable (see first page).