DNV·GL

Certificate No:
MEDB00003U6

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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) 2017/306,**
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

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

This Certificate is valid until **2023-04-11**.

Issued at **Hamburg** on **2018-04-12**

DNV GL local station:
Rostock

Approval Engineer:
Timo Linn

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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Product description

"B-15M connecting door"
is a fire door consisting of two door leafs 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 leafs are fastened to the frame with three hinges each. The door leafs 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.

For further details refer to the test report listed under 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 (WxH).
Maximum clear opening: 900 mm x 2000 mm (WxH).

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 22 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 27 May 2009 from Alvedoor (Kunshan) Co., Ltd.

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).