EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BC9
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV 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)
Hatches B-15 (integrated / with frame)

issued to
R & M International GmbH
Hamburg, **Germany**

is found to comply with the Implementing Regulation **(EU) 2025/1533** for
Item no. **MED/3.16** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1511, SOLAS 74 Reg. II-2/9.

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

Date of issue: **2025-09-26**

Expiry date: **2030-09-25**

DNV local unit:
Hamburg – CMC North/East

Approval Engineer:
Kristin Grønnæss Hovden

Notified Body
no.: **0098**

for **DNV SE**

Christine Mydlak-Röder
Head of Notified Body

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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

“Hatches B-15 (integrated / with frame)”
is an insulated single leaf door fire door mounted in an approved B-class bulkhead, that can be delivered in two variations "Hatch with frame" and "Integrated hatch".

The hatch leaf consists of an insulation core with 0.6 mm thick steel sheets covering all surfaces fixed together with blind rivets, folded at the corners and overlapping along the thickness. The insulation is fixed to the steel sheets by means of adhesive.

The total thickness of the hatch leaf is 25 mm.

Inside the hatch opening a 20 mm wide and 2 mm thick intumescent strip is placed. On the hinge side, the intumescent strip is 10 mm wide.

The hatch leaves are provided with two turning locks located on the opposite side of the hinge with a distance of 250 mm from the top and the bottom of the hatch.

"Hatch with frame":
is insulated with 24 mm thick rock wool of type "ABM-SR" (density 200 kg/m³, manufactured by Shanghai ABM Rock Wool). Alternatively, the hatch can be insulated with 24 mm thick mineral wool of type “Rockwool SeaRox SL 480" (density 200 kg/m³, manufactured by Rockwool) when additional intumescent material is placed in between the frame and the bulkhead.

The hatch leaf is mounted to the frame by a piano hinge in full length of the hatch. The frame is made of 1.5 mm thick steel and is fixed to the bulkhead by blind rivets, also fixing the U-profile inside the bulkhead panel groove.

"Integrated hatch":
is insulted by either 24 mm thick mineral wool of type “Rockwool SeaRox SL 480" (density 200 kg/m³, manufactured by Rockwool) or 24 mm thick rock wool of type "ABM-SR" (density 200 kg/m³, manufactured by Shanghai ABM Rock Wool).

The integrated hatch is mounted to the bulkhead by a piano hinge in full length of the hatch. The hatch was supported by a 3 mm thick hatch catch made of steel. The hatch catch is fixed to the bulkhead by means of blind rivets, also fixing the U-profile inside the bulkhead panel groove.

The hatches may be fitted with 3-point locks.

For further details, see drawings listed under Type Examination documentation below.

Application/Limitation

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

"Hatch with frame":
Max. door leaf size: 1031 mm x 1879 mm (W x H)
Max. clear door opening: 1000 mm x 1850 mm (W x H)

"Integrated hatch":
Max. door leaf size: 1035 mm x 1883 mm (W x H)
Max. clear door opening: 1000 mm x 1850 mm (W x H)

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.

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

Type Examination documentation

Tests carried out
Tested according to IMO 2010 FTP Code part 3.

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