

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00008YD

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 **A & B Class divisions fire integrity: B class divisions.**

with type designation(s)
W25P (light weight) double wall

issued to

R & M International GmbH
Hamburg, Germany

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2023/1667,
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO
MSC/Circ.1120 and IMO MSC.1/Circ.1581

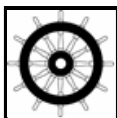
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-05-23**.

Issued at **Hamburg** on **2024-05-24**

DNV local unit:
Hamburg – CMC North/East

Approval Engineer:
Meike Grabau



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
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) 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



Product description

“W25P (light weight) double wall”

is a class B-15 bulkhead, consisting of two identical rows of 25 mm panels with a 20 mm air gap in-between. The panels were constructed with a tongue and groove joint method.

Each row has a start panel with a neutral flat end towards the frame and a 24 mm long and 20.8 mm thick tongue end towards the standard panel. The standard panel consists of one side with a 24 mm long and 20.8 mm thick tongue and one side with a 24 mm long and 20.8 mm thick groove closed with a 24.5 mm x 23.5 mm x 22.5 mm connection U-profile. The end panel consists of one side with a 24 mm long and 20.8 mm thick groove closed with a 24.5 mm x 23.5 mm x 22.5 mm connection U-profile towards the standard panel and one neutral flat end towards the frame.

The bulkhead panels are made of 0.6 mm galvanized steel sheets as outer half shell and 0.5 mm partly perforated galvanized steel sheets as inner half shell facing each other inside the air gap. The sheets are glued to 24mm mineral wool “ABM-SR 120” (120 kg/m³) from Shanghai ABM Rock Wool with approved adhesive.

At the bottom of the panels a blind rivet was used to fix the panels to the bottom profile at the panel joints.

Total double wall thickness: 70 mm.

For further details, see documentation (incl. drawings) listed under “Type Examination documentation” below.

Application/Limitation

Approved for use as a vertical fire retarding division of class B-15.

Approved for use as a non-load bearing vertical fire retarding division of class A-30. The use of this product shall be limited to applications specifically approved by the Administration in question, see IMO 2010 FTP Code part 3, Appendix 1, items 1.12 and 1.13. The construction shall in any case not be used as part of main fire zone bulkheads and stairways enclosures on passenger ships (see also IMO MSC/Circ.1005).

Maximum panel size: 1000 mm x 2475 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.

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

Type Examination documentation

Test report no. PGB10286A dated 19 September 2023 from Danish Institute of Fire and Security Technology, Hvidovre, Denmark.

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, MED Mark of Conformity and USCG Approval Number if applicable (see first page).