

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008D6

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

with type designation(s)
W25-AA / W25-AS

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/3.11b. 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

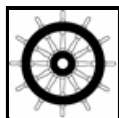
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-05-02**.

Issued at **Hamburg** on **2023-05-03**

DNV local unit:
Hamburg – CMC North/East

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) 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. 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

The **W25-AA** consists of B-15 class bulkhead panels made of 0.8 mm thick aluminum sheet + 23.5 mm thick mineral wool lamellae + 0.8 mm thick aluminum sheet. Total thickness 25 mm.

The **W25-AS** consists of B-15 class bulkhead panels made of 0.8 mm thick aluminum sheet + 23.5 mm thick mineral wool lamellae + 0.6 mm thick steel sheet. Total thickness 25 mm.

The panels are jointed with tongue and groove. 2 x 15 mm intumescent strips type RM1502 are placed inside the grooves.

Insulation:

The mineral wool lamellae type Paroc Marine Navis Slab 100 has a nominal density of 100 kg/m³.

In all tongues and 50 mm from the grooves the panels are insulated with 23.5 mm thick mineral wool type Paroc Marine Slab 200 with a nominal density of 200 kg/m³.

The mineral wool is fixed to the aluminum / steel sheets by means of approved adhesive.

The 0.6 mm steel sheet of **W25-AS** is proved to have better thermal insulation than the 0.8 mm aluminum sheet – see assessment report PHD10082A.

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

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

Max panel size: 650 x 2475 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 and maintenance.

Type Examination documentation

Test report No. PGB10211A dated 2022-11-07 from DBI, Hvidovre, Denmark.

Assessment report No. PHD10082A dated 2023-03-31 from DBI, Hvidovre, Denmark.

Tests carried out

Tested according to IMO FTPC Part 3

Marking of product

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