

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008BX

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
Fire door Class B-15 - DB1502

Issued to
PANELFA, S.L.
Mos-Puxeiros, Pontevedra, Spain

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2023/1667,
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

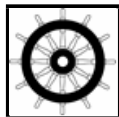
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-10-16**.

Issued at **Høvik** on **2023-10-17**

DNV local unit:
NB/CMC Team West

Approval Engineer:
Tessa Biever



Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Fire door Class B-15 - DB1502"

Is a single leaf hinged door with door leaf composed of a 34 mm thick mineral wool of type "SeaRox SL 470" with a nominal density of 180 kg/m³ (manufactured by Rockwool) bonded to a 0.6 mm thick steel sheet on both sides by means of an adhesive.

The three-sided door frame, made from 1.2 mm thick steel sheet is fixed to the bulkhead with screws 4.8 mm x 25 mm with max. c/c of 650 mm.

The door leaf is connected to the frame with 3 hinges.

Total thickness of door leaf: 38 mm.

The upper part of door leaf may be fitted with:

- Window with pane of glass model "Pilkington Pyrostop EI 30-10" (manufactured by Persimaster S.L.) with dimensions 450 mm x 450 mm and 15 mm thickness. The window frame is made of 1.2 mm thick steel and intumescent gasket made from rubber band.
- A peep hole Ø22 mm (unexposed face) and Ø27mm (exposed face).

The lower part of door leaf may be fitted with:

- In the lower part of the door leaf: Kickout panel in size 510 mm x 470 mm x 38 mm (W x H x T).
- In the lower part of the door leaf: Ventilation grill (fitted in kick out panel).

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

Application/Limitation

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

Max. size of door leaf:	1060 mm x 2090 mm (W x H)
Max. clear opening of door:	1030 mm x 2100 mm (W x H)
Max. window size:	450 mm x 450 mm (W x H)
Max. clear opening of window:	425 mm x 425 mm (W x H)
Max. size of kick out panel:	510 mm x 470 mm (W x H)
Max. size of the grill:	405 mm x 195 mm (W x H)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED 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. 10205/22 dated 15 November 2022 from AFITI, Madrid, Spain.

Drawing No. DB1502-01 dated 2019-09-16 from manufacturer.
Drawing No. DB1502-02 dated 2019-09-16 from manufacturer.
Drawing No. DB1502-03 dated 2019-09-16 from manufacturer.
Drawing No. DB1502-04 dated 2019-09-16 from manufacturer.
Drawing No. DB1502-05 dated 2019-09-16 from manufacturer.
Drawing No. DB1502-06 dated 2019-09-16 from manufacturer.
Drawing No. DB1502-07 dated 2019-09-16 from manufacturer.
Drawing No. DB1502-08 dated 2019-09-16 from manufacturer.
Drawing No. DB1502-09 dated 2019-09-16 from manufacturer.

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 MED Mark of Conformity and USCG number if applicable (see first page).



Job Id: **344.1-012593-1**
Certificate No: **MEDB00008BX**

USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.