DNV·GL

Certificate No:
MEDB00003ZR

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
B-15 Double fire door DB1501D

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

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 **2023-06-13**.

Issued at **Høvik** on **2018-06-14**

DNV GL local station:
Vigo

Approval Engineer:
Fryderyk Hoga

Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

NORWEGIAN ACCREDITATION PROD 019

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Product description

"B-15 Double fire door DB1501D"
consist of double door leaf composed of insulating core of 44 mm thick "Rockwool SeaRox SL 470", with density 180 kg/m^3, faced on both sides with 0.8 mm galvanized steel sheets. The insulation is glued to the steel sheets by means of adhesive. Both door leafs are fitted with 3 or 4 hinges. The door to be fitted with the latches in top and bottom of the passive leaf.

Total thickness of door blade: 48 mm.

The frame is composed of 1.2 mm thick galvanized steel and bolted to the bulkhead by M4.5 x 25 screws spaced maximum 650mm apart. Door and window frame is fitted with intumescent gasket "Marvon Guarnizione TP211716S" in size 1.4 x 18 mm.

Each door leaf may incorporate:

- Window: "Pilkington Pyrostop EI30" in the upper half of the door, size 470 x 470 mm and thickness: 15 mm,
- Kick out panel: in size 480 x 480 mm (W x H) made from the same composition as door leaf with incorporated ventilation grill in size 405 x 195 mm (W x H),
- Lock case: ECO GBS93 in active door leaf and coupling lock: ECO GBS94 in passive door leaf,
- Handle: ECO D-110 in active door leaf.

For further details see test report and drawing mentioned 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 active door leaf:	985 x 2115 mm (W x H)
Max. size of passive door leaf:	941 x 2115 mm (W x H)
Max. clear opening of door:	1900 x 2095 mm (W x H)
Max. size of exposed fire technical glazing unit:	450 x 450 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. 3376T18 dated 26 January 2018 from AFITI LICOF Centre for Fire Testing and Research, Toledo, Spain.

Drawing No. PA.DB1501D rev.1 (5 sheets) dated 24 November 2017 from manufacturer.
Statement from AFITI LICOF Centre for Fire Testing and Research, no. S-3376T18 dated 01 June 2018.

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).

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.