

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 the Kingdom of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
Fire door A-60 (DA60001)

Issued to

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

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559**,
Annex A.1, item No. A.1/3.16 and Annex B, Module B in the Directive; SOLAS 74 as amended,
Regulation II-2/and IMO 2010 FTP Code

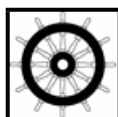
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-02-19**.

Issued at **Høvik** on **2017-02-20**

DNV GL local station:
Vigo

Approval Engineer:
Fryderyk Hoga



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



Product description

"Fire door A-60 (DA60001)"

Is a single leaf hinged door with door leaf composed of 0.6 mm steel sheets, two 15 mm thick magnesium silicate boards "Fibrodice MS" manufactured by Odice and bonded by means of adhesive to an insulating core of 14 mm type "SeaRox SL 470" mineral wool from both sides. Insulation is manufactured by Rockwool with density of 180 kg/m³.

The door leaf is connected to the frame with 3 hinges and is fitted with a cylinder mortise lock type "GSV 3262 z" and handle type "GSV 4410".

Total thickness of door blade: 48 mm.

The door frame, made from external and internal frame in size 48x12x1.0 mm and 44x12x1.2 mm steel sheets respectively, is tack (10 mm with c/c 300 mm) or fully welded to the bulkhead. Intumescent gasket in size 15x1.4 mm, made from rubber band, is fitted on upper door frame and lateral side of door leaf.

The door leaf may be fitted with:

- Window with pane of glass model "Pilkington Pyrostop EI 60-101 23 mm" (manufactured by Pilkington). Thickness: 23 mm, window frame is made from 1.2 mm thick steel and intumescent gasket made from rubber band.
- Ventilation Grill and kick out panel in size 510x470x30 mm (w x h x t), installed in the lower part of the door.
- Hose port in size 200x200x48 mm (w x h x t) made from same composition as door leaf, installed on the lower part of the door by means of one hinge and four rivets per lateral with spacing 50 mm and equipped with intumescent gasket made from rubber band.

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

Application/Limitation

The door is approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. size of door leaf:	1045 mm x 2058 mm (W x H)
Max. clear opening of door:	1010 mm x 2055 mm (W x H)
Max. clear opening of window:	585 mm x 585 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 and maintenance.

Type Examination documentation

Test report No. 15/9076-895 dated 15 April 2016 from LGAI Technological Center, Barcelona, Spain.

Erratum to test report no. 15/9076-895 dated 19 December 2016 from LGAI Technological Center, Barcelona, Spain.

Drawings No. A60 rev.2 (9 sheets) dated 6 July 2016 from manufacturer.



Job Id:
Certificate No: **MEDB00001GS**

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 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.