

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)
Inspection Hatch B-15 (IH001)

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

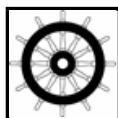
Further details of the equipment and conditions for certification are given overleaf.

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

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"Inspection Hatch B-15 (IH001)"

Is a single leaf hinged hatch with hatch leaf composed of 0.6 mm steel sheets bonded by adhesive to an insulating core of 30 mm type "SeaRox SL 440" mineral wool from both sides. Insulation is manufactured by Rockwool with density of 150 kg/m³.

The hatch leaf is connected to the frame with one hinge through whole height and is fitted with five M22 triangular closing devices of 8 mm made of steel.

Total thickness of hatch: 32 mm.

The hatch frame consists of external frame and counter frame made from 1.2 mm thick stainless steel profiles, is bolted to the bulkhead, by means of rivets of 5 x 30 mm, placed 300 mm between each other. Two intumescent joints are fitted between the hatch and the frame.

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 hatch leaf:	490 mm x 1890 mm (W x H)
Max. clear opening of hatch:	460 mm x 1860 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. 15/9076-904 dated 1 February 2016 from LGAI Technological Center, Barcelona, Spain.

Drawings No. R01-R13 rev.2 (13 sheets) dated 10 November 2015 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 Approval Number if applicable (see first page).