

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 "B" Class divisions, fire integrity

with type designation(s)

NVOD-B-15- Operable wall partition B-15 Classified seperation

Issued to

NAVALIBER, S.L.
Gondomar, Spain

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773,**

item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2.3.4 & II-2/9 and IMO 2010 FTP Code

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

This Certificate is valid until **2023-11-20.**

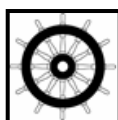
Issued at **Høvik** on **2018-11-21**

DNV GL local station:

Vigo

Approval Engineer:

Tessa Biever



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

'NVOD-B-15 Operable wall partition B-15 Classified separation'

Bulkhead composed of fixed set panels and one mobile/operable panel of 2270 mm x 2100 mm (w x h) which can be opened by sliding the panel in the fixed set panel.

Fixed set panel

A fixed set panel consists of two sandwich panels with an airgap of 190 mm in between.

Each sandwich panel consists of 0.7 mm galvanized steel sheets, insulated with 20 mm mineral wool Isover BX-Spintex 683-200 DRA Naval (manufactured by Isover – Saint Gobain with density 201 kg/m³) glued to the surface of the panels with an application rate of 200 g/m².

The fixed set panels joints are tongue and groove, with edge profiles with the width of 20 mm between the vertical panels and the horizontal one which acts as lintel in the gap of the mobile panel.

Sandwich panel thickness: 24 mm

Total fixed set panel thickness: 24 mm (sandwich panel) + 190 mm (airgap) + 24 mm (sandwich panel)

Mobile/operable panel

The mobile/operable panel consists of two (2) sliding elements permanently connected with four (4) M10 8.8 quality threaded bars. The elements are consisting of an internal substructure made of Aluminium ENAW 6060 coated with fire resistant intumescent paint type Fireblock 2000 and is reinforced with vertical iron tubular jambs. The elements are covered by 17mm thick calcium sulphate boards (manufactured by Knauf Integral - density 1546 kg/m³) on both sides. The mobile panel is manually activated/deactivated with a hexagon key, located 1135 mm from lower edge and 1542 mm from left edge (seen from unexposed side). The mobile/operable panel is supported by a partition aluminium railtrack system. The rail is covered on the lower part with 16 mm thick calcium sulphate boards (manufactured by Knauf Integral - density 1546 kg/m³).

Total mobile/operable panel thickness: 127 mm

A rebate of 132 mm wide and 4 mm thick is made on lower part of the panels. The elements have mobile aluminium seals that close the gap with the rail track (on upper part) and ground (on lower part). Intumescent gaskets are fixed on the horizontal edges of the panels.

The following perimetral profiles are provided:

- at the upper edge (galvanized steel, 2 mm thick)
- at the lower edge of the bulkhead and both lateral sides (galvanized steel, 2 mm thick)
- lower edge of the mobile/ operable panel (metal, 4 mm thick)

For more details see documentation listed under Type Examination documentation.

Application/Limitation

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

Maximum panel size:

Fixed set of two sandwich panels: 566 mm x 2425 mm (w x h)

Mobile /operable panel: 2270 mm x 2100 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

Testreport no. 9601/18 dated 2018-10-15 from AFITI Centre of Fire testing and Research, Madrid, Spain (English translation for the Spanish test report dated 2018-10-18) - product tested under name NVOD-B-15 Operable partition B-15 Classified separation.



Job Id: **344.1-008725-1**
Certificate No: **MEDB00004NJ**

Drawing No. 2018.PN15.FT Rev.A dated 2018-09-20 (1 sheet) from manufacturer.

Tests carried out

Test carried out according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG approval number if applicable (see first page).