

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)
BSS Firewall B15

Issued to

BSS Metallbau- Schiffsausbau GmbH & Co. KG
Lemgo, Germany

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

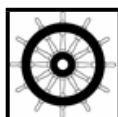
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-01-29**.

Issued at **Hamburg** on **2019-01-30**

DNV GL local station:
Magdeburg

Approval Engineer:
Pavel Golyshev



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudzus
Head of Notified Body

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"BSS Firewall B15"

The "BSS Firewall B15" construction consists of a fire safety glass pane enclosed with an aluminium frame.

Aluminium frame

The frame is made by aluminium profiles of the series "Schüco ADS 65.NI SP" with a metallic clamp type II. On the side and on top and bottom aluminium profiles (69 mm x 65 mm, W x D) with glass retaining profiles are used, which were mitred and joined together using corner joints.

The corner connectors are connected with aluminium profiles fixed with aluminium nails type "5 x 13.5" and the adhesive "COSMO HD-100.110". The vertical supports were formed by aluminium profiles (94 mm x 65 mm, W x D) with glass retaining profiles made of aluminium. These supports have been connected push on push to the upper and lower aluminium profiles with T-connectors. Insulators made of "Palstop P Ax" (see also test report appendices 1.19 and 1.20) were used in the aluminium profiles and glass retaining profiles, while in the aluminium profiles, the insulators were fitted with steel retaining springs (3 pieces per meter, see test report appendix 1.11) held in position.

Window pane

The fire safety glass pane "CONTRAFLAM Lite Marine B15" is composed of 6 mm toughened glass layer + 4 mm fireproof solution + 6 mm toughened glass layer (total thickness: 16 mm), provided by Vetrotech Saint Gobain Marine.

In the floor area, glazing clogs made by hardwood type "298061" (100 mm x 24 mm x 5 mm, L x W x D) were placed. The glass panes were sealed with EPDM seals (see test report appendices 1.12 and 1.13).

Insulation material:

"Palstop P Ax" with nominal density of 1700 kg/m³, manufactured by BRANDDEX Sp. z.o.o.

Adhesives:

"COSMOHYBRID 490" and "COSMO HD-100.110" manufactured by Weiss Chemie + Technik GmbH & Co. KG.

Sealing materials (all from Schüco International KG):

Plug-in seal type "284824_FZ_0000", EPDM, type C.

Glazing seal type "224267_FZ_0000", EPDM, type B.

Glazing Block type "298061", hardwood.

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

Application/Limitation

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

Tested with the self-tapping screws fixing the panels along the vertical joints facing the side unexposed to fire.

Maximum overall height of bulkhead (incl. support profiles): 3000 mm.

Maximum external size of window pane: 1400 mm x 2898 mm (width x height).

Maximum clear view size of window pane: 1364 mm x 2862 mm (width x height).

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 Nos. DMT-DO-53-090-1 dated 19th of December 2018 issued by DMT GmbH & Co.KG, Lathen, Germany.



Job Id: **344.1-008035-1**
Certificate No: **MEDB00003YM**

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, 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 marking if applicable (see first page).