

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 Fire Doors

with type designation(s)
BSS Class B15 Door-1

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/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

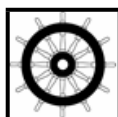
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-04-23**.

Issued at **Hamburg** on **2019-04-24**

DNV GL local station:
Magdeburg

Approval Engineer:
Pavel Golyshev



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 Class B-15 Door-1"

The single leaf hinged fire door of type "BSS Class B-15 Door-1" consists of a door leaf and a head panel with glazing installed in approved aluminium bulkhead.

The door leaf is made by aluminum profiles of the series "Schüco ADS 65.NI SP" with type II metallic clamping, produced by Schüco International KG. Also the side and top aluminum profiles of type "300130" (98 mm x 65 mm, W x D) and type "173820" with glass retaining profiles. In the floor area, an aluminum profile of type "300340" (98 mm x 64.8 mm, B x D) is used. These profiles are mitred and connected with corner joints of type "236482". The corner connectors are fixed with aluminum nails type "5 x 13.5" and the adhesive "COSMO HD-100.110" with the aluminum profiles. As stop seals, seals of type "224683" are used.

The glazing of the door leaf is made by fire safety glass of type "CONTRAFLAM Lite Marine B15" with the dimensions 1194 mm x 2480 mm (W x H). In the floor area the glazing units are underlaid with hardwood of type "298061" (100 mm x 24 mm x 5 mm, L x W x D). The glass pane is sealed with gaskets of types "284824" and "224267".

The head glass panel consists of type "CONTRAFLAM Lite Marine B15" with the dimensions 1400 mm x 220 mm (W x H) and glazing clogs made by hardwood type "298061" (100 mm x 24 mm x 5 mm, L x W x D). The glass pane is sealed with gaskets and integrated into the aluminium profile.

The fireproof glass pane "CONTRAFLAME 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.

The door leaf is connected to the aluminium bulkhead vertical profile by three hinges of type "239826" with retainers of type "229016" and is fitted with steel lock, steel door handle and door closer of type "GEZE TS 5000 L" or similar.

For additional info see appendices 1.1 to 1.22 of the test report.

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.

Glass plant seal type "224267_FZ_0000", EPDM, type B.

Stop seal type "224683_FZ_0000", EPDM, type B.

Glazing block type "298061", hardwood.

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

Application/Limitation

The door is approved for installation in class B-15 aluminium bulkhead of type "BSS Firewall B15". Installation of the door in aluminium bulkheads of other types and bulkheads made of other materials (steel, FRP, etc.) are subject to case-by-case approval.

Maximum size of door leaf (as tested): 1354 mm x 2640 mm (width x height).

Maximum size of window pane in door leaf (as tested): 1194 mm x 2480 mm (width x height).

Maximum clear opening door size (as tested): 1177 mm x 2628 mm (width x height).

Job Id: **344.1-008368-1**
Certificate No: **MEDB00004A2**

A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

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. DMT-DO-53-091-2 dated 14th of March 2019 from DMT GmbH Co. KG, Lathen, Germany.

Tests carried out

Tested according to IMO Resolution MSC.307(88) – 2010 FTP Code Annex 1, Part 3.

The door has been successfully tested with extended test period for at least 18 minutes for insulation and 36 minutes for fire integrity in compliance with IMO MSC.1/Circ.1319.

Marking of product

The product or packing 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).