

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008EJ

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)

Class B-15 door "Kabineneingangstür Typ StKaT" with built-in components

Issued to

Stengel GmbH

Ellwangen Jagst, Baden-Württemberg, Germany

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

Regulation (EU) 2022/1157,

item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319

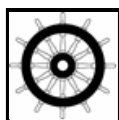
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-06-14**.

Issued at **Hamburg** on **2023-06-15**

DNV local unit:
Augsburg

Approval Engineer:
Roland Priebe



Notified Body
No.: **0098**

for **DNV GL SE**

Christine Mydlak-Roeder
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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

The **Class B-15 door "Kabineneingangstür Typ StKaT" with built-in components** is a single leaf fire door.

The door leaf is constructed of two parts, each made of up to 0.7 mm thick steel sheet glued to a 14 mm thick insulation "Knauf CNF Board M17". In the middle of the door leaf over the complete height there is a 19 mm thick and 58 mm wide insulation stripe "Knauf CNF Board M15". Both door leaf parts are connected with a circumferential U-profile made of 1 mm thick steel and are secured with rivets. Total door leaf thickness = 50 mm.

Alternatively the door leaf may be enforced by a steel plate of 0.7 mm thickness on each side which is glued between the outer steel plate and the insulation. This shall protect the door better from mechanical damage – see assessment 8120794003-10. Total door leaf thickness = 50 mm.

The door frame is made of rectangular steel tubes and profiles with a steel thickness of 0.7 to 1.5 mm connected with M5 x 12 mm steel bolts. The frame is connected to the bulkhead with an L-profile and secured with clips and 4.2 x 19 mm steel bolts covered with a steel profile. The door frame may also be tack- or fully welded to the bulkhead.

The door leaf is connected with the frame via three stainless steel hinges each using 8 M6 steel bolts.

Integrated in the door frame is at the top part a closing system of type "GEZE TS 2000 BC".

At eye height a spyhole with Ø 13 mm and closing flap is fitted in the door leaf.

An electronic door lock of type "Assa Abloy VingCard Signature 4G RFID" is mounted at a height of 1085 mm.

Material:

Insulation "CNF BoardM17" from Knauf Insulation d.o.o. (nominal thickness = 14 mm, nominal density = 170 kg/m³),
Insulation "CNF BoardM15" from Knauf Insulation d.o.o. (nominal thickness = 19 mm, nominal density = 150 kg/m³),
Adhesive "Körapur 672" from Kömmerling Chemische Fabrik GmbH (used amount = 500 g/m²)

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

Approved for use as an integrated part of fire retarding division of class B-15.

Max. door leaf size: 1041 mm x 2114 mm (w x h)
Max. door clear opening: 1000 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 door is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test report No. DMT-DO-53-141 dated 2020-11-17 from DMT, Lathen, Germany
Fire technical assessment No. 8120794003-10 dated 2022-09-27 from DMT, Dortmund, Germany.

Tests carried out

Tested according to IMO 2010 FTP Code Annex1, Part 3.

Marking of product

The product or packing 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 page 1).