EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BSJ
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV 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)
KAEDOOR B15 HD DL

issued to
KAEFER Schiffsausbau GmbH
Bremen, **Germany**

is found to comply with the Implementing Regulation **(EU) 2025/1533** for
Item no. **MED/3.16** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1511, SOLAS 74 Reg. II-2/9.

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

Date of issue: **2025-12-05**

Expiry date: **2030-12-04**

DNV local unit:
Hamburg – CMC North/East

Approval Engineer:
Helge Bjørnarå

Notified Body
no.: **0098**

for **DNV SE**

Christine Mydlak-Röder
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

"KAEDOOR B-15 HD DL",
is a double leaf hinged door, each door leaf is constructed as follows:
- 10 mm gypsum fibre board Rigidur H10 Marine (density 1200 kg/m³, manufactured by Saint-Gobain).
- 34 mm to 39 mm vermiculite Grenamat A (density 550 kg/m³, manufactured by Grena).
- 10 mm gypsum fibre board Rigidur H10 Marine (density 1200 kg/m³, manufactured by Saint-Gobain).

Two vertical door leaf straightening rods of steel are incorporated in the door leaf.

The total thickness of door leaf and door frame: 54 mm to 59 mm.

Approved adhesives are used to bond the materials used in the door leaf and frame construction materials.

The door frame is screwed to the bulkhead panels using counter L-profiles of steel 40x40x3 and 200 mm in length, spaced at regular intervals around the door frame. Four counter L- profiles on the side edges and three along the top edge. Any gaps between door frame and bulkhead panels are filled with a fire insulation material which is at least equivalent to B-15.

To bridge larger gaps, counter L-profiles of increased dimensions may be used. The overlap of the counter profile on the bulkhead panels shall not be less than 30 mm and the max permissible gap between door frame and bulkhead panels to be maintained.

The door leaf may incorporate a 11 mm thick window “Pyrodur M 30-203” (manufactured by Pilkington) supported by 2 mm aluminium frame on either side.

For further details see drawings under Type Examination documentation below.

Application/Limitation

Approved for use as an integrated part of fire retarding bulkhead of Class B-15.

Maximum clear opening door: 2200 mm x 2286 mm (W x H)
Maximum size of door leaf: 1107 mm x 2290 mm (W x H)
Maximum clear opening of window glazing: 811 mm x 2016 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.

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.

Each product is to be supplied with its manual for installation and maintenance.

USCG Approval Limitations:
The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

The door has been successfully tested for extended test period of 36 minutes.

Marking of product

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