

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)
HS-M5 Type Class B-0 Fire Door

Issued to

Jiangyin Haisheng Marine Outfitting & Decoraton Co., Ltd.
Jiangyin, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
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

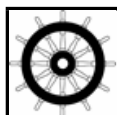
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-03-09**.

Issued at **Hamburg** on **2020-03-10**

DNV GL local station:
Jiangyin CMC

Approval Engineer:
Marcin Tobiasz



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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

“HS-M5 Type Class B-0 Fire Door”

is a class B-0 single-leaf fire door. The door leaf is composed of the following layers:

- 0.7 mm thick steel plate.
- 39 mm thick layer of mineral wool of type KMD-Y-01 (density 120 kg/m³) manufactured by Tianchang KMD New Insulation Materials Co., Ltd..
- 0.7 mm thick steel plate.

Internal parts are glued together.

The door leaf is fitted with the following steel stiffeners:

- 20 mm x 20 mm x 1.2 mm fixed at the perimeter of the kick-out panel.
- 20 mm x 10 mm x 1.2 mm fixed at a distance of 700 mm from the top edge of door leaf.

In addition to the stiffeners the door leaf is fitted with 0.7 mm thick edge cover fixed at the perimeter of door leaf.

Total thickness of door leaf: 40 mm.

The four-sided door frame is formed by 1.2 mm thick steel plates filled in the interior with rock wool insulation. The fireproof seal strip 10 mm x 4 mm is used in the continuous groove arranged at the inside of three edges of the door frame provided by Jiangyin Junshan Ship Fittings Co., Ltd. The door frame may be welded or bolted (M5x25 mm screws spaced maximum 300 mm apart) to the bulkhead. The door leaf is fitted to the door frame with 3 hinges and a fireproof lock system.

The door leaf may be fitted with kick-out panel on the lower part of the door leaf, with or without internal ventilating ducting grilles.

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

Application/Limitation

The door is approved for installation in steel bulkheads of class B-0. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. size of door leaf: 1026 mm x 2109 mm (W x H)
Max. clear opening of door: 1000 mm x 2100 mm (W x H)
Max. clear opening of kick-out panel: 417 mm x 517 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 and maintenance.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover any evaluations related to watertightness, weathertightness etc.).

Type Examination documentation

Tests carried out

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

Marking of product



Job Id: **344.1-009798-1**
Certificate No: **MEDB00005X3**

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