TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB00009B8

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)
SY-A30

issued to
Jiangsu Shenyi Ship Equipment Co., Ltd.
Jingjiang, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
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 **2030-04-21**.

Issued at **Hamburg** on **2025-04-22**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Izabela Misztal

Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
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 1/2023 dated May 26th, 2023.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"SY-A30 Class A-0 fireproof door"
a door construction consisting of a single leaf steel door in a steel frame. The door leaf is composed of 0.6 mm steel plates on each side of an insulating core. The insulating core is composed of 36.8 mm thick "KMD-Y" rock wool (density 120 kg/m^3 manufactured by Tianchang Kangmeida New Insulation Material). Steel plates are bonded to the rock wool with YEBOND 2002X 8# and YEBOND 8001 adhesives. The door leaf is attached to the door frame by means of three hinges. There is a fireproof sealing strip installed around the door leaf.

Total thickness of door leaf is 38 mm.

The door leaf may be fitted with:

- 38 mm thick observation window installed in the upper part of the door leaf. The fireproof glass is composed of 2 layers of 9 mm thick fireproof glass and 20 mm fireproof liquid.
- Escape panel and ventilation grid in the lower part of the door leaf with a face plate made of 0.6 mm thick steel plate.
- A lock of C1 type installed 1000 mm above the bottom of the door leaf.

The three-sided door frame profile is constructed of 1.2 mm thick steel plate and is filled with rock wool of 120 kg/m^3 density. The door frame is either welded or bolted to the bulkhead by M6x25 bolts (c-c max. 448 mm).

For further details please see documentation listed under Type Examination documentation.

Application/Limitation

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

Maximum size of door leaf: 1293 x 2271 mm (W x H)
Maximum door clear opening: 1150 x 2200 mm (W x H)
Maximum size of window: 450 x 450 mm (W x H)
Maximum window clear opening: 410 x 410 mm (W x H)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

The product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product 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 first page).

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.