TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB00009B9

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 A & B Class divisions fire integrity: B class divisions.

with type designation(s)
SY-B50A Class B-15 bulkhead

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/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1581

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-B50A Class B-15 bulkhead"
composed of an insulation core made of 49 mm thick "KMD-Y" rock wool (density 120 kg/m^3 manufactured by Tianchang Kangmeida New Insulation Material) covered on both sides with 0.5 mm thick galvanized steel plates bonded to the rock wool with YEBOND 2002X 8# and YEBOND 8001 adhesives.

Total thickness of the bulkhead panel is 50 mm.

The panels are connected to each other by wedges of 22 mm depth (tongue and groove pattern).

For further details see drawings listed under Type Examination documentation below.

Application/Limitation

Approved for use as a vertical fire retarding division of class B-15.

Max. panel size: 700 mm x 2970 (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.

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

Type Examination documentation

Test report no. AJFS2409012467FR dated 13 November 2024 from SGS-CSTC Standards Technical Services, Shanghai, China.

Drawing no. F-101 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-01 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-02 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-02-01 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-02-02 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-02-01-01 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-02-02-01 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-02-02-02 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-02-03 dated 15 September 2024 from the manufacturer.
Drawing no. F-101-02-03-01 dated 15 September 2024 from the manufacturer.

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).