EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008UW

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

with type designation(s)
JCP-L1 Type B-15 Class Lining Panel

Issued to
Jiangsu Hailu Technology Incorporated Corporation
JIANGYIN, JIANGSU, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2023/1667,**
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 **2029-01-17**.

Issued at **Hamburg** on **2024-01-18**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Meike Grabau

Notified Body
No.: **0098**

for **DNV GL 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 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This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"JCP-L1 Type B-15 Class Lining Panel"
is a bulkhead panel composed of a 24 mm thick insulation core of type "BSS Rockwool" (manufactured by Weihai Bosheng Advanced Materials Co. Ltd. with nominal density 120 kg/m³) covered on both sides with 0.5 mm steel sheets fixed by means of a two-component polyurethane adhesive. The construction is mounted in an enclosed frame of steel L-profile 65 mm x 65 mm x 6 mm and fastened with steel L-profile 30 mm x 30 mm x 3 mm.

Joint type is of single-sided strip structure with fillet on the fire-exposed side, 13 mm x 10 mm x 0.5 mm steel profile.

Total panel thickness: 25 mm.

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

Application/Limitation

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

Maximum panel size: 600 mm x 2480 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.

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

Type Examination documentation

Test report no. FT23451 dated 15 November 2023 from FEFTC Far East Fire Testing Centre, Shanghai, China.

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, MED Mark of Conformity and USCG approval number if applicable (see first page).