

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB00008UX**

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-C2C Type B-15 Class Ceiling (with accessories)**

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**

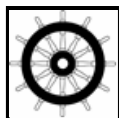
Further details of the equipment and conditions for certification are given overleaf.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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-C2C Type B-15 Class Ceiling (with accessories)”

is a ceiling panel consisting of 24 mm thick rockwool core of type ‘Fibertex’ with nominal density of 120 kg/m<sup>3</sup> (produced by Tianchang KMD New Insulation Materials Co., Ltd.) with 0.5 mm thick galvanised steel sheets on both sides which are bonded by means of adhesive.

The panels were assembled by joints with edge depth of 17 mm.

Total panel thickness: 25 mm

The panel can be fitted with:

- Cabin unit MS35-C with ceiling opening dimensions of Ø170 mm produced by NOVENCO HI-PRES AIR HANDLING EQUIPMENT (WUXI) CO., LTD.
- Air return with external dimensions 670x410x445 mm installed in the air gap between the ceiling and the structural deck. The casing is fixed by steel rivets on the top of the ceiling and by M6x250x4 mm screws to structural deck. Fitted with a metallic grid 645x245 mm on the ceiling underside. Opening dimensions in the ceiling: 615x215 mm. Produced by JIANGSU GUOXING EQUIPMENT CO., LTD.
- Fluorescent ceiling light TL11 LED with ceiling opening dimensions of 1237x246 mm, main structures being shell, shade and socket. The shell is made of 0.5 mm steel and surrounded by rockwool and aluminium foil cloth, fixed on opening of the unexposed side of the ceiling by means of rivet. The shade is installed on the exposed side of the ceiling opening. The shade and socket were produced by GLAMOX
- Fluorescent ceiling light ACLE/04L/LE/PC with ceiling opening dimensions of 1365x275 mm, main structures being shell, shade and socket. The shell is made of 0.5 mm steel and surrounded by rockwool and aluminium foil cloth, fixed on opening of the unexposed side of the ceiling by means of rivet. The shade is installed on the exposed side of the ceiling opening. The shade and socket were produced by CHALMIT.
- Loudspeaker BF-560(T) with ceiling opening dimensions of Ø150 mm produced by DNH EASTONE, main structures being shell and loudspeaker. The shell is made of 0.5 mm steel and surrounded by rockwool and aluminium foil cloth of 25 mm thick and 120 kg/m<sup>3</sup>, fixed on the unexposed side of the ceiling by means of rivets. The loudspeaker is installed on the exposed side of the ceiling opening.

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

## Application/Limitation

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

The minimum distance between the ceiling panel and the structural steel deck is 420 mm.

Maximum panel size: 600 mm x 2400 mm (W x L)

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

### Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

### Marking of product

The product or 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).