

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB000090F

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)
JCP-C2A(D) Type Class B-15 Continuous Ceiling (with lights)

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

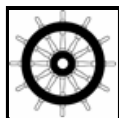
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-08-21**.

Issued at **Hamburg** on **2024-08-22**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Marta Kropiwnicka



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) 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



Product description

“JCP-C2A(D) Type Class B-15 Continuous Ceiling (with lights)”

Is the ceiling composed of panels suspended below the structural deck, constructed of 24 mm thick marine rock wool insulation KMD-Y type with density 120 kg/m³ (produced by Tianchang KMD New Insulation Materials) cover on both sides by 0.5 mm thick steel sheets.

Insulation is bonded to the steel plates by adhesive.

The plates are connected using wedge joints, with 28 mm deep wedge cut.

The ceiling is hanging under the A class deck construction with L100 mm x 70 mm x 8 mm angle bars.

The ceiling is fitted with:

- JPL-40 type, LED fluorescent light in size 587 mm x 587 mm, installed and fixed with the ceiling on the unexposed side with Ø3.2 mm stainless rivets.
- JPY47-2L type, LED fluorescent light in size 227 mm x 1267 mm, installed and fixed with the ceiling on the unexposed side with Ø3.2 mm stainless rivets.
- JXQ-7 type, LED down light in size Ø210 mm, installed and fixed with the ceiling on the unexposed side with Ø3.2 mm stainless rivets.

Total thickness of the ceiling is 25 mm.

For further details see documentation(s) listed under Type Examination documentation.

Application/Limitation

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

Maximum panel size: 600 mm x 3090 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.

Type Examination documentation

Test report No. FT19365 dated 17 December 2019 from Far East Fire Testing Centre, Shanghai, China.

Test report No. FT14129 dated 5 June 2014 from Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3 and Part 3 Appendix 4.

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).