

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 "B" Class divisions, fire integrity

with type designation(s)
Class B-0 Ceiling Type JCP-C2-L

Issued to

Jiangsu Hailu Technology Incorporated Corporation
JIANGYIN, JIANGSU, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
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

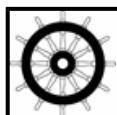
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-10-23**.

Issued at **Hamburg** on **2019-10-24**

DNV GL local station:
Jiangyin

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"JCP-C2-L" Type Class B-0 Ceiling is made of panels suspended 685 mm (to the underside of ceiling) below an A-class deck. The panels are made of an aluminium honeycomb core covered on both sides with 0,5 mm thick steel sheets. Total thickness of the ceiling is 25 mm.

The honeycomb core (manufactured by Jiangsu Hailu) is of a hexagonal cellular shape with a depth of 24 mm, 13 mm long sides and with an aluminium foil thickness of 0,06 mm. Adhesive of approved type is used between the steel sheets and the aluminium honeycomb core.

On the longitudinal sides, the panels are fastened to each other by means of wedges, with 28 mm deep wedge cuts. The panel ends connect on the flanges of a fabricated inverted T-shaped profile running transversely to the panels.

For suspension to deck:

Beams consisting of two L-profiles are connected to the inverted T-profiles on the upper side of the ceiling. Hangers made of flat steel bars are connecting the inverted T-profiles to the steel deck, by welding in both ends.

Maximum distance between hangers (along the T-profiles): 600 mm.

Maximum distance between T-joints (maximum free span): 2400 mm.

Maximum size of panels: 600 x 2400 mm (width x length).

The construction of the JCP-C2-L type Class B-0 ceiling shall be in accordance with the manufacturer's drawings Nos. HL-C2-L-03, HL-C2-L-03-T2, HL-C2-L-03-T2-01, HL-C2-L-03-T2-02, HL-C2-L-03-T2-03 and HL-C2-L-03-T3 which are included in the test report.

For further details refer to the test reports listed under Type Examination documentation below.

Application/Limitation

Approved for use as a horizontal fire retarding ceiling of B-0.

Maximum size of panels: 600 x 2400 mm (width x length).

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.

This certificate is replacing the previous MED-B 11365-14 HH issued on 2014-11-20.

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

Type Examination documentation

Test report no. FT14125 dated 2014-06-03 issued by Far East Fire Testing Centre (FEFTC), Shanghai, China.

Tests carried out

Tested according to IMO Resolution MSC.307(88) - IMO FTP Code Annex 1, Part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, Mark of Conformity and USCG marking if applicable (see first page).