

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)
JCP-B3S-L Type Class B-15

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

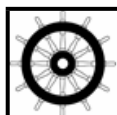
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-01-09**.

Issued at **Hamburg** on **2020-01-10**

DNV GL local station:
Jiangyin

Approval Engineer:
Marcin Tobiasz



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, and amended by Decision No 1/2018 dated February 18th, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-B3S-L Type Class B-15 Bulkhead"
composed of panels made of an aluminium honeycomb core covered on both sides with 3 mm thick inorganic fireproof boards and 0,5 mm thick steel sheets.

The insulation board is of type "YB" with a nominal density of 1000 kg/m³, manufactured by Suzhou Youlian Ship's Equipment Co., Ltd.

The honeycomb core (manufactured by Weiyu Honeycomb Factory from Weitang Town, Xiancheng District, Suzhou City) is of a hexagonal cellular shape with a depth of 43 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, the inorganic fireproof boards and the aluminium honeycomb core.

Panel joints:

The panels are fastened to each other by means of wedges, with 28 mm deep wedge cuts.

Total thickness of a panel is 50 mm.

The construction of the "JCP-B3S-L" type Class B-15 bulkhead shall be in accordance with the manufacturer's drawings Nos. HL-B3S-L-03, HL-B3S-L-03-T1 and HL-B3S-L-03-T1-01 which are included in the test report.

For further details see test report mentioned under "Type Examination documentation" below.

Application/Limitation

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

Maximum dimensions of a panel is 600 x 2500 mm (width x height).

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, use and maintenance.

Type Examination documentation

Test report no. FT18169 dated 27 August 2018 issued by Far East Fire Testing Centre (FEFTC), Shanghai, China.

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 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, the MED Mark of Conformity and USCG approval number, if applicable (see page 1).