

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-15 bulkhead JCP-L5 (with openings of water closet pipes and the cold/hot water pipes)

Issued to

Jiangsu Hailu Technology Incorporated Corporation
JIANGYIN, JIANGSU, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773,**

item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2.3.4 & II-2/9 and IMO 2010 FTP Code

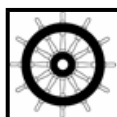
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-07-18.**

Issued at **Hamburg** on **2018-07-19**

DNV GL local station:
Jiangyin

Approval Engineer:
Fryderyk Hoga



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Class B-15 bulkhead JCP-L5 (with openings of water closet pipes and the cold/hot water pipes)" composed of 25 mm thick mineral wool insulation type "AZ-120" with nominal density of 120 kg/m³ (produced by Jiangyin Anzhou Construction Material Co., Ltd., China) mounted with 0.6 mm thick galvanized steel sheets by means of adhesive.

The panels are connected to each other with groove and tongue.

The panels are fitted with:

- Ø28 mm opening, stainless steel bent pipe, sealed from the exposed side
- Ø32 mm flushing valve opening of the water closet, stainless steel bent pipe, sealed from the exposed side
- Ø90 mm opening of the outlet pipe of the water closet, stainless steel bent pipe, sealed from the exposed side

Total panel thickness: 25 mm

For further details, see the test report and drawing mentioned under Type Examination documentation below.

Application/Limitation

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

Maximum panel size: 600 x 2480 mm (W x L)

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.

Any surface materials used have to be approved for smoke and toxicity and low flame spread characteristics (IMO 2010 FTP Code Annex 1 parts 2 and 5) when required according to relevant rules.

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

Type Examination documentation

Test report No. FT11216 dated the 6th of September 2011 from FEFTC Far East Testing Centre, Shanghai, China.

Drawing No. 262HL-28J-T0 dated the 28th of June 2011 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code, Annex 1, part 3.

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).