

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-L7 Class B-0 Lining

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

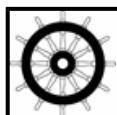
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-11-11**.

Issued at **Hamburg** on **2019-11-12**

DNV GL local station:
Jiangyin

Approval Engineer:
Roland Priebe



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-009517-1**
Certificate No: **MEDB00005KJ**

Product description

The **JCP-L7 Class B-0 Lining** consists of 30 mm thick compound rock wool plates, lap jointed.

Construction:

The lining panels were made of 0.6 mm thick galvanized steel plate + rock wool, only one side applied with steel surface. Adhesive was used for bonding between the galvanized steel plate and rock wool.

The lining panels were lap jointed with the lapped part 20 mm long. An omega shaped steel profile of 63 mm x 8 mm x 0.6 mm is fixed at the lap joint by 4 mm tapping screws for longitudinal reinforcement.

The lining is connected to the A-class bulkhead by pieces of 100 mm x 63 mm x 6 mm flat iron being welded at the perimeter. After installation the air layer between the lining and the core steel plate is 90 mm thick.

Material:

The insulation material used is AZ type rock wool with a density of 120 kg/m³ and is produced by Jiangyin Anzhou Construction Material Co., Ltd.

The adhesive used is HL-2002X type which was produced by the client itself.

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

Application/Limitation

This certificate is based on the previous MED-B 12453-10 HH issued on 2014-06-10.

Approved for use as a vertical fire retarding division of class B-0.

Max. size of lining panels: 550 mm wide x 2460 mm height x 30 mm thick

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. FT10144 dated 10th May 2010 from Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO FTP Code Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

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