DNV·GL

Certificate No:
MEDB000055R

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-B1 Type Class B-15 bulkhead

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 **2024-04-07**.

Issued at **Hamburg** on **2019-04-08**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

"The JCP-B1 Type Class B-15 bulkhead" is assembled from 50mm thick wall panels having a rock wool core sandwiched between two 0.5mm thick galvanised steel sheets. The rock wool is affixed to the steel sheets with an adhesive of approved type. The panels are connected by means of full height steel clip arrangements on both the exposed and unexposed sides of the panels.

The bulkhead was tested with the following two optional features:
The central panel was a sound absorbing panel with an air cavity of 500mm in width and 5mm in depth arranged centrally within the rock wool core over the full height of the panel. An adjacent panel had a cable channel of 50mm in width and 25mm in depth arranged centrally within the rock wool core over the full height of the panel.
The construction of the JCP-L1 Type Class B-0 lining panels shall be in accordance with the manufacturer's drawings nos. HL-B1-03 and HL-B1-03-T1, HL-B1-03-T1-01and HL-B1A-T2 which are attached to the test report.

Insulation material:
AZ -120 type rock wool of nominal density of 120 kg/m³ produced by Jiangyin Anzhou Construction Material Co., Ltd.

For further details, please see test report with included drawings listed under Type Examination documentation below.

Application/Limitation

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

Max. panel size: 600 mm x 2480 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 and maintenance.

Type Examination documentation

Test Report No. FT12291 dated 27.11.2012 by Far East Fire Testing Centre, Shanghai, China.

This certificate is based on the previous MED Module B Certificate No. 60586-13 HH.

Tests carried out

Tested according to IMO Resolution MSC.307(88) – 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).