

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-C2C

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

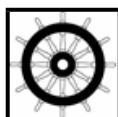
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-05-07**.

Issued at **Hamburg** on **2019-05-08**

DNV GL local station:
Jiangyin Station

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"JCP-C2C" is a ceiling constructed of rock wool panels.

The ceiling panels are totally 25 mm thick and composed of 0.5 mm thick galvanized steel plate + rock wool + 0.5 mm thick galvanized steel plate. The Fibretex rock wool is produced by Tianchang KMD New Insulation Materials Co., Ltd. and has a nominal density of 120 kg/m³, 0.6 % moisture content and 3 % organic content. Adhesive is used in between the steel plate and insulation material for bonding. The glue is a low flame-spread PAPU-30 type polyurethane adhesive from Jingjiang Green Functional Material Co., Ltd.

The panels are made in various sizes and are wedge jointed. The wedge cut is 25 mm deep.

The ceiling panels are intended for hanging under an A class deck structure. The air gap between ceiling and the deck is measured to be 420 mm thick.

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

Application/Limitation

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

Maximum panel size: 2400 mm long x 600 mm wide x 25 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. FT17262 dated 2017-12-04 from Far East Fire Testing Centre, 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).