DNV·GL

Certificate No:
MEDB00003K9

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)
HL-B50A-I Type Class B-15 Bulkhead

Issued to
Tianjin Huali Thermal Insulation Building Material Co., Ltd.
TIANJIN TIANJIN, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
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 **2023-02-04**.

Issued at **Hamburg** on **2018-02-05**

DNV GL local station:
Dalian

Approval Engineer:
Pavel Golyshev

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

"HL-B50A-I Type Class B-15 Bulkhead"
HL-B50A-I Type Class B-15 Bulkhead consists of panels with each panel composed of insulating core of THY-150 type compound rock wool produced by Tianjin Huali Thermal Insulation Building Material Co., Ltd. (nominal density 150 kg/m³) covered with 0.6 mm thick steel plates on each side.

The steel plate and the insulation are glued to each other with adhesive of approved type. The panels are connected together at joints by wedges (18.5 mm in depth).

Total panel thickness: 50 mm.

For further details, see drawings and test report 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 2520 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. FT13245 dated 3rd of September 2013 from Far East Testing Centre, Shanghai, China.
Drawing Nos. HL-B50A-I-00SY-01, HL-B50A-I-00SY-02, HL-B50A I-00, HL-B50A I-01-00, HL-B50A I-02-00 and HL-B50A I-03-00 from manufacturer.

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 first page).