DNV·GL

Certificate No:
MEDB000026X

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)
KS-BC50(B) - Type Class B-15 Bulkhead

Issued to
Nantong Cosy Marine Equipment Technology Co., Ltd.
Nantong City Jiangsu, 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 **2023-04-16**.

Issued at **Hamburg** on **2018-04-17**

DNV GL local station:
Nantong CMC

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

"KS-BC50(B) – Type Class B-15 Bulkhead"
The bulkhead panels composed of:

- 0.6 mm thick galvanized steel sheet (exposed side)
- 48.5 mm thick Fibertex type rock wool
- 0.6 mm thick galvanized steel sheet (unexposed side)

The Fibertex type rock wool of density 150 kg/m^3 is manufactured by Tianchang KMD New Insulation Materials Co., Ltd. The whole construction is mounted in an enclosed frame made of steel L-profile 63 x 63 x 5 mm and fasted with L-profile 63 x 63 x 5 mm.

The galvanized steel plates and insulation are glued together with adhesive.

The panels are joined together on exposed and unexposed side by connector clips made of 0.6 mm thick galvanized steel plate.

Total panel thickness: 50 mm

For more details see drawing and test report listed under Type Examination documentation below.

Application/Limitation

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

Maximum panel size: 800 x 2500 mm (W x H)

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. FT17103 dated 16 May 2017 from FEFTC Far East Fire Testing Centre, Shanghai, China.

Drawing No. QKS-000-A28-511-000 (5 pages) rev.2 dated 15 May 2017 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code 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).