DNV·GL

Certificate No:
MEDB0000176

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-BC25 Class B-0 Lining/ Class A-15 bulkhead

Issued to
Nantong Cosy Marine Equipment Technology Co., Ltd.
Nantong City, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559,**
Annex A.1, item No. A.1/3.11b and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2.3.4.4. and IMO 2010 FTP Code.

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

This Certificate is valid until **2021-10-31**.

Issued at **Hamburg** on **2016-11-01**

DNV GL local station:
Nantong CMC

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"KS-BC25 Class B-0 Lining/ Class A-15 bulkhead"
KS-BC25 Class B-0 Lining with sound absorbing holes consists of plates with each plate composed as follows:

- Face Plate (unperforated): 0.6 mm galvanized steel plate
- Insulating core of 23.5 mm thick Fibertex rock wool produced by Tianchang KMD New Insulation Materials Co., Ltd. (nominal density 150 kg/m^3)
- Back Side Plate (perforated): 0.6 mm thick ganvanized steel plate

The steel plate and the insulation are glued to each other with an adhesive. The panels are jointed together by using galvanized steel clips at single face, and the clips are 12 mm x 10 mm x 0.6 mm in specification.

Tested with the surface steel plate (unperforated) with connector clip at panel joint facing the exposed side (the surface steel face with sound absorbing holes unexposed to fire). Perforation and other details acc. to drawing No. QKS-000-A28-502-000.

Total panel thickness: 25 mm.

Application/Limitation

Approved for use as a vertical fire retarding division of class B-0. With an air gap of 90 mm between the lining board and the A-Class structural steel bulkhead, the whole construction may be regarded as a fire retarding division of Class A-15.

Max panel size: 800 x 2500 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. FT16048 dated 27th of June 2016 from Far East Testing Centre, Shanghai, China.
Drawing No. QKS-000-A28-502-000.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation, fire technical rating and MED Mark of Conformity (see first page).