

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008DX

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 A & B Class divisions fire integrity: A class divisions.

with type designation(s)

Class A-60 Bulkhead : HMBA60-100Y

Issued to

Tianjin Haimen Building Material Co., Ltd.
Langfang, Hebei Province, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2022/1157,

item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434,1435; IMO MSC.1/Circ.1616, 1621

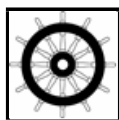
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-05-01**.

Issued at **Hamburg** on **2023-05-02**

DNV local unit:
Dalian NB & CMC

Approval Engineer:
Tessa Biever



Notified Body
No.: **0098**

for **DNV GL SE**

Christine Mydlak-Roeder
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) 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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

'Class A-60 Bulkhead: HMBA60-100Y'

A structural steel bulkhead insulated with 50 mm heat insulation material of type 'HMY-100' rockwool with nominal density of 100 kg/m³ (manufactured by Tianjin Haimen Building Material Co. Ltd) placed directly on the structural core between the stiffeners such that the stiffeners cavity is totally filled with insulation material. A 30 mm thick second layer of the same heat insulation material was placed on the surface of the stiffener.

Both the layers were fixed on the surface of the structural core by steel touch nails (Ø3 mm) with clamping nail (Ø 30 mm). Max. distance between touch nail and insulation materials seams of the ceramic wool was 300 mm. Max. distance between touch nail in width direction of the structural core 200 mm. Max. distance between touch nail in height direction is 400 mm.

For further details see under Type Examination documentation.

Application/Limitation

Approved for use as a vertical fire retarding division of class A-60.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED 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. FT22210 dated 8 December 2022 from FEFTC, Shanghai, China.

Drawing No. HMA60B(HMY-100)-00 Rev. 0 dated April 2022 from manufacturer.

Drawing No. HMA60B(HMY-100)-00SY Rev.0 dated April 2022 from manufacturer.

Drawing No. HMA60B(HMY-100)-01 Rev.0 dated April 2022 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

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