EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BSX
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV 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 division**

with type designation(s)
HLHX-A60II-B Type "A-60" Class Fire-Resistant Bulkhead

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

is found to comply with the Implementing Regulation **(EU) 2025/1533** for
Item no. **MED/3.11a** (Row **2 of 2**)
according to the following requirements:
SOLAS 74 Reg. II-2/3.2, SOLAS 74 Reg. II-2/9, IMO MSC/Circ.1120, IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1616, IMO MSC.1/Circ.1621, IMO MSC/Circ.1120

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

Date of issue: **2025-11-27**

Expiry date: **2030-11-26**

DNV local unit:
Tianjin NB & CMC

Approval Engineer:
Joanna Kowalczuk

Notified Body
no.: **0098**

for **DNV SE**

Christine Mydlak-Röder
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, and amended by Decision No 1/2023 dated May 26th, 2023.
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

"HLHX-A60II-B Type "A-60" Class Fire-Resistant Bulkhead"
is composed of a structural steel bulkhead, reinforced with six stiffeners of L65 x 65 x 6 mm along high direction and two flat steels 65 x 6 mm welded on upper and lower ends, insulated with 40 mm thick insulation material HLHX-96 Environmental Protection Fiber Blanket produced by Tianjin Huali Thermal Insulation Building Material with density of 96kg/m³.

Insulation material was fixed on the steel structural core and on the stiffeners, and it was fixed through the stud welding process.

The studs on bulkhead structural core were distributed in width direction at intervals of 150 mm, 300 mm, and 240 mm, and were distributed in height direction at intervals of 100 mm and 250 mm. The number of studs on the bulkhead was about 21 pins/m² (including those on stiffeners). The studss were ø3 mm in diameter and the fastening washers were ø30 mm in diameter, both of which were made of steel.

For further details, see documents listed under Type Approval documentation below.

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 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

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, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).