

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BG0
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-A60-D Type "A-60" Class Fire-Resistant Deck

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 **1 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/Circ.1120

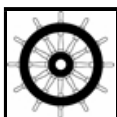
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-10-07**

Expiry date: **2030-10-06**

DNV local unit:
Tianjin NB & CMC

Approval Engineer:
Joanna Kowalczuk



Notified Body
no.: **0098**

for **DNV SE**

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Christine Mydlak-Röder
Head of Notified Body

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-A60-D Type"A-60"Class Fire-Resistant Deck"

is composed of a structural steel deck reinforced with five stiffeners of L 100x70x8 mm and two flat steels 100 x 8 mm welded on two ends, one each in width direction.

One layer of thermal insulation material "HLHX-96" type manufactured by Tianjin Huali Thermal Insulation Building Material with density of density 96 kg/m³, and 30 mm in nominal total thickness was fixed on the steel structural core and on the stiffeners, and it was fixed through the stud welding process.

The studs on deck structural core were distributed in width direction at intervals of 150 mm, 300 mm, and 240 mm, and were distributed in length direction at intervals of 100 mm and 250 mm. The number of studs on deck was about 21 pins/m² (including those on stiffeners). The studs 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 horizontal fire retarding steel 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).