EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BHY
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)
TKAB-7D Type A-60 Class Deck

issued to
Shanghai ABM Rock Wool Co., Ltd.
#99,3828 Lane,Huqingping Road
Shanghai
201703 -
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.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: **2026-04-15**

Expiry date: **2031-04-14**

DNV local unit:
Nantong

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"TKAB-7D Type A-60 Class Deck"
is a heat insulation material applied on the stiffener side of a steel structural core deck.

The thermal insulation material was ABM-FR60 Type Marine Fireproof Rock Wool with density 100 kg/m³ manufactured by Shanghai ABM Rock Wool Dafeng. One layer of heat insulation material with 40 mm in nominal total thickness was fixed on the steel panel. Another layer of 25 mm thick insulation material was laid on the surface and side of stiffeners.

Total thickness of deck is 129.5 mm

The studs on deck structural core were distributed in width direction at intervals of 203 mm, 275 mm, 278 mm, and were distributed in length direction, spacing between studs was 272 mm, 200 mm, 400 mm and 372 mm respectively. Along the length direction of the deck core, spacing between studs on the stiffeners was 300 mm, 350 mm, 200 mm and 400 mm respectively.

The number of studs on deck was about 18 pins/m² (including those on stiffeners). The pins were ø3 mm in diameter and the fastening washers were ø30 mm in diameter, both of which were made of steel.

For further details refer to the documentation listed below under “Type Examination documentation”.

Application/Limitation

Approved for use as a horizontal 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, use 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).