

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000887

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)

A-60-B-07 Type Rock Wool Plate A-60 class Bulkhead

Issued to

Yixing Kunhao Fireproof Material Co., Ltd
Yixing, 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

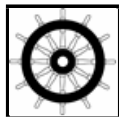
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-01-15**.

Issued at **Hamburg** on **2023-01-16**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Karolina Kusmider



Notified Body
No.: **0098**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"A-60-B-07 Type Rock Wool Plate A-60 class Bulkhead"

is composed of a steel bulkhead insulated on stiffened side with 70 mm (2 x 35 mm layers) "LZ-1" rock wool (nominal density 120 g/m³) manufactured by Yixing Kunhao Fireproof Material Co., Ltd.

Stiffeners are to be covered with two layers of 35 mm "LZ-1" rock wool.

The insulation is fixed by Ø 3 mm steel rivets with Ø 30 mm washers between the stiffeners and on the stiffeners. The maximum spacing between rivets and insulation seam is 50 mm.

The lengthwise rivets spacing is max. 300 mm and min. 100 mm. The width wise rivets spacing is max. 220 mm and min. 160 mm. The amount of rivets on deck is about 25 rivets/m².

For further details see test report stated under "Type Examination documentation" below.

Application/Limitation

Approved for use as a vertical 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

Test report no FT22036 dated 14th July 2022 issued by Far East Fire Testing Centre, Shanghai, China.

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 front page).