EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000B8D
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 **Fire doors**

with type designation(s)
Marine MA60CXT Type A-60 Fireproof Door

issued to
Jiangsu Haojun Huake Housing Industrial Co., Ltd.
Jingjiang, **China**

is found to comply with the Implementing Regulation **(EU) 2024/1975** for
Item no. **MED/3.16** (Row **1 of 1**)
according to the following requirements:
IMO MSC.1/Circ.1511, SOLAS 74 Reg. II-2/9.

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

Date of issue: **2025-08-05**

Expiry date: **2030-08-04**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Meike Grabau

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Marine MA60CXT Type A-60 Fireproof Door"
is a class A-60 single-leaf steel fire door with window, escape panel and hose port.

The door leaf consists of 36.8 mm rock wool core, covered by 6 mm thick inorganic fire boards and 0.6 mm thick steel plates on both sides. The YG-2 type rock wool (nominal density: 120 kg/m³, produced by Changzhou Thermal Insulation Material Factory Co., Ltd.) and the ASK type inorganic fireboard (nominal density: 900 kg/m³, produced by Zhangjiagang ASK Building Materials Industry Co., Ltd.) is affixed to each other and to the steel sheets with an adhesive of approved type. The inner frame is made of 1.2 mm steel plate. The leaf edge is covered around with a layer of 0.8 mm thick steel plate.

Total door leaf thickness: 50 mm.

The door leaf is installed at one side with three PH7141 type hinges. On the other side a C1 type fire lock (provided by Nantong Hujiang Marine Technology Co., Ltd.) is fitted at a height of 1000 mm from the bottom edge. The upper part of the door leaf is fitted with a 32 mm thick observation window. The window is composed of 5 mm tempered glass + 22 mm fire retardant solution + 5 mm tempered glass (provided by Yixing Yushi Special Glass Co., Ltd.). The window covering strip is made of a 0.8 mm steel plate, fixed to the door leaf by ST4.2 x 13 mm stainless steel screws. The lower part of each door leaf is fitted with a 50 mm thick escape panel. The escape panels consist of 0.6 mm thick steel plates with ventilation sheets inside. A 45 mm thick self-closing hose port is installed by a spring hinge in the lower corner of the door leaf. It consists of rock wool (same as above), covered by 0.6 mm thick steel plates on both sides.

The three-sided door frame is composed of 1.2 mm thick steel, filled with rock wool (same as above) and is either welded or bolted (M6 x 25 mm) to the bulkhead spaced maximum 446 mm apart. An FPJ-B type fire sealing strip, 13 mm x 16.5 mm (provided by Hebei Deban Special Seals Strips Co., Ltd.) is installed into a continuous groove on the three sides of the door frame.

For further details, please see documents listed under "Type Examination documentation" below.

Application/Limitation

Approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Maximum door leaf size: 1075 mm x 2201 mm (W x H)
Maximum clear door opening: 1050 mm x 2200 mm (W x H)
Maximum clear window opening: 420 mm x 420 mm (W x H)
Maximum clear escape opening: 420 mm x 520 mm (W x H)
Maximum clear fire hole opening: 150 mm x 150 mm (W x H)

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.

The USCG approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.

Each door 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).