TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB0000973

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the Fire Doors

with type designation(s)
HHJC-DC-6 A-60 steel door

issued to
Yantai Navigation Machinery Co. Ltd.
Yantai, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319

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

This Certificate is valid until **2030-05-05**.

Issued at **Høvik** on **2025-05-06**

DNV local unit:
Dalian NB & CMC

Approval Engineer:
Joanna Kowalczuk

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"HHJC-DC-6 A-60 steel door"
is a single leaf hinged door, composed of 1.8 mm thick galvanized steel plate, air layer, 1.8 mm thick galvanized steel plate, 50 mm thick TG-2 type ceramic wool (density 170 kg/m³, manufactured by Changzhou Thermal Insulation Material Factory), 10 mm thick LGB-0 type calcium silicate board (density 1100 kg/m³, manufactured by manufactured by Suzhou Weiyu Marine Materials Decoration) covered with 8 mm thick steel plate and reinforced with two horisontal steel stiffeners.

The door leaf is attached to the steel frame with two hinges on one side and handle is installed at the other side. Handwheel device is installed at the center of the door leaf and is connected to the locking devices inside the door leaf through connecting rods, locking the door leaf.

The door frame made of 10 mm thick angle steel plate is connected to the bulkhead by welding.

The fireproof sealing strips in size 20 mm x 4 mm and flame-retardant rubber strips in size 45 mm x 20 mm are installed around the door leaf.

Total thickness of door leaf is 159 mm.

For further details, please see 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.

Max. door leaf size:	821 mm x 1871 mm (W x H)
Max. clear door opening:	750 mm x 1800 mm (W x H)

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 door is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test report No. AJFS2409010648FR dated 25 November 2024 from SGS-CSTC Standards Technical Services, Anji Branch, China.

Drawing No. HHJC-DC-601 dated 16 April 2024 from manufacturer.

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).