

TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB00008YY

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-DR-3 Type A-30 steel fireproof 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 **2030-04-10**.

Issued at **Høvik** on **2025-04-11**

DNV local unit:
Dalian NB & CMC

Approval Engineer:
Marta Kropiwnicka



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-DR-3 Type A-30 steel fireproof door"

is a single leaf hinged door, composed of a 1.8 mm thick steel plate. The edges are insulated with two layers of 10 mm thick LGB-0 type calcium silicate board (density 1100 kg/m³, manufactured by Suzhou Weiyu Marine Materials Decoration) and covered with a 10 mm thick steel plate. The centre part is insulated with one layer of 10 mm thick LGB-0 type calcium silicate board (density 1100 kg/m³, manufactured by Suzhou Weiyu Marine Materials Decoration) and one layer of 50 mm thick TG-2 type ceramic wool (density 170 kg/m³, manufactured by Changzhou Thermal Insulation Material Factory) and covered with a 10 mm thick steel plate.

There are two horizontal steel stiffeners in size 60 mm x 12 mm inside the door leaf.

The door leaf is attached to the steel frame with three hinges on one side.

The door leaf is connected to four-sided frame made of 10 mm thick carbon steel angle bar and welded to the bulkhead.

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

The locking mechanism (manufactured by Yantai Navigation Machinery) is formed by a handle set next to the handle, which is connected to the eight locking devices and four steering devices inside the door leaf through connecting rods, locking the door leaf.

A door closer (manufactured by Yantai Navigation Machinery) is installed at the top of the door leaf.

Total thickness of door leaf is 100 mm.

For further details, please see Type Examination documentation below.

Application/Limitation

Approved for installation in steel bulkheads of class A-30. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. door leaf size: 950 mm x 2050 mm (W x H)

Max. clear door opening: 750 mm x 1850 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.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations related to water-tightness, weathertightness, etc.).

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

Type Examination documentation

Test report No. AJFS2409010646FR dated 25 November 2024 from SGS-CSTC Standards Technical Services, Anji Branch, China.

Drawing No. HHJC-DR-301 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).