Certificate no.:
TAF000020X

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Horizontal Class A Hatches

with type designation(s)
HHJC-HQ-6 A-60 Quick Opening Hatch Cover

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

is found to comply with

DNV offshore standards
DNV rules for classification – Ships
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2025-08-20**
This Certificate is valid until **2030-08-19**.
DNV local unit: **Dalian NB & CMC**

for **DNV**

Approval Engineer: **Joanna Kowalczuk**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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-HQ-6 A-60 Quick Opening Hatch Cover"
Is composed of coaming and hatch cover plate.

The hatch coaming is made of: 5 mm thick plate, 10 mm thick LGB-0 type calcium silicate board with density 1100 kg/m³ (manufactured by Suzhou Weiyu Marine Material Decoration), 30 mm thick TG-2 type ceramic wool, with density 170 kg/m³ (manufactured by manufactured by Changzhou Thermal Insulation Material Factory) and 12 mm thick steel plate, total thickness of hatch coaming is 67 mm and hight is 200 mm.
The hatch coaming is fixed to the deck by welding.

Hatch cover plate is made of 12 mm thick steel plate, 10 mm thick LGB-0 type calcium silicate board with density 1100 kg/m³ (manufactured by Suzhou Weiyu Marine Material Decoration), 38 mm thick TG-2 type ceramic wool, with density 170 kg/m³ (manufactured by Changzhou Thermal Insulation Material Factory), 10 mm thick LGB-0 type calcium silicate board (manufactured by Suzhou Weiyu Marine Material Decoration) and 5 mm thick steel plate. Inner coaming plate around the cover plate is made of 8 mm thick steel plate.

Fireproof sealing strips FPJ-A 20mm x 4 mm (manufactured by Wuhu Gallford Fire Material) and flame-retardant rubber 20 mm x 60 mm (manufactured by Qinghe Country Yongtong Sealing Parts) are installed at the joints between the coaming and cover plate.

A spring hinge device is installed on one side of the cover plate, handle and lock hasp are installed on the other side. Handwheel device is installed at the center of the door leaf and is connected to connecting rods and clip devices inside the cover plate, locking the door leaf.

Total thickness of hatch leaf: 75 mm.

For further details, see drawings listed under Type Approval documentation below.

Application/Limitation

The hatch is approved for installation in steel decks of class A-60. Installation of the hatch in decks made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. clear opening:	830 x 830 mm (L x W).
Max. hatch cover plate size:	984 x 984 mm (L x W).

Any surface materials used have to be approved for smoke and toxicity and low flame spread characteristics (IMO 2010 FTP Code parts 2 and 5 or IMO FTPC Parts 2 and 5 when in compliance with the 2010 FTP Code Ch. 5.2 and 8) when required according to relevant rules and regulations.

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

The construction and installation are to be in accordance the type approval documents listed below and with the manufacturer's manual for installation.

Type Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021.

Test report No. AJFS2409010650FR dated 22 November 2024 from SGS-CSTC Standards Technical Services, Anji Branch, China.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating.

Periodical assessment

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Program DNV-CP-0338, Section 4.

Manufactured by:

Yantai Navigation Machinery Co. Ltd., No.158, Fuxin Road, Fuxin Industrial Park, Fushan District, Yantai 265500 China