Certificate No:
TAF00001NS

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Horizontal Class A Hatches

with type designation(s)
A-60 Class Fireproof Hatch Cover

Issued to
Jiangyin Marine Equipment Manufacturing Co., Ltd.
Jiangyin, Jiangsu, 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 :

Approved for use as an integrated part of a horizontal fire retarding division of class A-60.

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

Issued at **Høvik** on **2022-01-20**
This Certificate is valid until **2027-01-19**.
DNV local station: **Jiangyin NB & CMC**

Approval Engineer: **Marcin Tobiasz**

for **DNV**

Jowita Permoda
Head of Section

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 300,000 USD.

Product description

"A-60 Class Fireproof Hatch Cover"
A single leaf hinged hatch composed of a hatch frame, a hatch cover blade, hinges, hand wheel, locking arrangement and sealing materials.
The hatch cover blade consists of a 1.2 mm steel plate on the lower side and core with internal stiffening arrangement that is filled with approx 70 mm ceramic wool (type TG-II 170 kg/m³) and a 6 mm thick external steel plate.
The hatch cover has two hinges, a central handwheel on both sides and a 8 closing devices connected to the handwheel on the underside of the hatch cover.
A fireproof sealing tape and a watertight rubber tape are used for sealing between hatch cover and hatch cover frame.

The hatch cover frame is made from inside (exposed side) of 2 mm steel plate + 38 mm ceramic wool (type TG-II 170 kg/m³) + 10 mm fire proof plate (type YP 975 kg/m³) + 8 mm steel plate. The upper edge of the hatch frame is fitted with continuous grooves. The hatch cover frame is welded to the deck.

Hatch cover thickness: 75 mm (excl. hand wheels, double-hinge and external latches).

For further details, see the drawings in test report listed under Type Approval documentation below.

Application/Limitation

Approved for use as an integrated part of a horizontal fire retarding division 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. hatch leaf size: 995 mm x 1395 mm (W x H).
Max. clear hatch opening: 830 mm x 1230 mm (W x H).
Hach cover frame :1038 mm x 1438 mm x 610 mm.

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. FT08162 dated 22 August 2008 from Far East Fire Testing Centre, Shanghai, China.

Drawing No. 263JC-83123-00 (8 pages) dated 11 July 2008 from manufacturer.

Tests carried out

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) and in compliance with IMO 2010 FTP Code Ch.8.

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 DNV-CP-0338 Section 4.