



Certificate No:
TAF00001MV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the **Class A Door**

with type designation(s)

A-60 Fast open and close hatch cover

Issued to

Wuxi MNET Equipment Tech Co., Ltd.

Wuxi, Jiangsu, China

is found to comply with

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.

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

Issued at **Høvik** on **2022-04-19**

This Certificate is valid until **2027-04-18**.

DNV local station: **Jiangyin NB & CMC**

Approval Engineer: **Karolina Kusmider**

for **DNV**

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Helene David-Andersen
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.



Form code: TA 251

Revision: 2021-03

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Product description

"A-60 Fast open and close hatch cover"

a hatch cover constructed of from underside of 1.5 mm thick steel sheet, 8 mm thick inorganic fireproof board, type YB with nominal density of 1000 kg/m³ (manufactured by Suzhou Youlian Ship Equipment Co. Ltd., 72 mm thick ceramic wool, type TG-II with nominal density of 170 kg/m³ (manufactured by Yuanyang Fire Resistance Factory), 8 mm thick inorganic fireproof board (the same as above) and 12 mm thick steel plate. The hatch is fitted internally with stiffeners both in lateral and longitudinal way and with neoprene strips and fireproof seal.

The hatch coaming is constructed of from inside of 1.5 mm thick steel sheet, 8 mm thick inorganic fireproof board, type YB with nominal density of 1000 kg/m³ (manufactured by Suzhou Youlian Ship Equipment Co. Ltd., 22.5 mm thick ceramic wool, type TG-II with nominal density of 170 kg/m³ (manufactured by Yuanyang Fire Resistance Factory), 8 mm thick inorganic fireproof board (the same as above) and 12 mm thick steel plate. The hatch coaming is welded to the steel deck/bulkhead.

The hatch cover is fitted to the hatch coaming with three hinges and locking mechanism consisting of a central hand wheel connected to twelve dogs.

Total thickness of hatch coaming: 52 mm

Total thickness of hatch cover: 101.5 mm

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

Application/Limitation

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

Max. clear opening: 1400 x 1200 mm (L x W).

Max. hatch cover plate size: 1530 x 1330 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. FT13241 dated 30 August 2013 from Far East Fire Testing Centre, Shanghai, China.

Test Report No. FT13242 dated 30 August 2013 from Far East Fire Testing Centre, Shanghai, China.

Drawing No. 263WHL702-00 (4 pages), dated 27 June 2013 from manufacturer.

Drawing No. 263WHL702-01 (1 page), dated 25 June 2013 from manufacturer.

Drawing No. 263WHL702-02 (1 page), dated 25 June 2013 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 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.