



Certificate No:
TAF00001NF

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Horizontal Class A Division

with type designation(s)

Class A60 Double-sided Opening and Closing Fireproof Steel Hatch Cover

Issued to

Nanjing Lishui Yisheng Ship Fittings Factory
NANJING, 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 **Hamburg** on **2022-01-28**

This Certificate is valid until **2027-01-27**.

for **DNV**

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

Approval Engineer: **Roland Priebe**

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Jörg Kallies
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

The **Class A60 Double-sided Opening and Closing Fireproof Steel Hatch Cover** is a fireproof hatch in a class A-60 deck. The deck is stiffened and insulated from below which is also the exposed side in testing.

The hatch cover is fitted with a balance block and is attached to the coaming by 2 hinges and linkage handle clips. The linkage locking mechanism has 12 dogs which tightly secure the hatch cover with the coaming.

The hatch cover is a welded construction 1402 mm wide x 1402 mm long in external size. The cover plate is a 115 mm thick compound structure composed from the exposed side of 2 mm steel plate + 8 mm inorganic fireproof board + ceramic wool + 8 mm steel plate. There is a continuous groove of 45 mm x 20 mm fixed at the perimeter of cover plate for the watertight rubber strip to install.

The coaming is a compound structure of steel plates and insulating materials with overall dimensions of 1330 mm x 1330 mm and a height of 600 mm connected on top of the deck around the opening with continuous welding. The coaming is constructed of a 6 mm steel plate + ceramic wool + 10 mm inorganic fireproof board + 11 mm steel plate giving a total thickness of 61mm.

Insulation and Sealing Materials:

- Inorganic fireproof board YB type, 10 mm thick and of nominal density 1000 kg/m³ manufactured by Suzhou Youlian Ship Fitting Co., Ltd.
- Ceramic wool with nominal density of 170kg/m³ and ≤2.5% organic content is produced by Yixing Ocean Ship Material Co., Ltd.
- Watertight rubber strip 45 mm wide x 20 mm thick is provided by Jiangyin Dingyan Seals Co., Ltd.
- Graphite fireproof rubber strip 40 mm wide x 4 mm thick is provided by Shanghai Jiar Fu Decoration Material Company Ltd.

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

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

The hatch clear opening is 1230 mm wide and 1230 mm long.

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

Type Approval documentation

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

Test report No. FT15286, dated 2015-09-09, from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing: No. 124503-06-00, "A-60 Hatch Cover" from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product or packing is to be marked with name and address 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.