



TYPE APPROVAL CERTIFICATE

Certificate No:
TAF00000DK
Revision No:
1

This is to certify:

That the Horizontal Class A Hatches

with type designation(s)
A-30 Fireproof Hatch Cover (JBM-1000*1000)

Issued to
JBM Co., Ltd.
ULSAN, Korea, Republic of

is found to comply with
DNV rules for classification – Ships
DNV offshore standards
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021

Application :

Approved for use as an integrated part of fire retarding divisions of class A-30.

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

Issued at **Høvik** on **2021-11-04**

for **DNV**

This Certificate is valid until **2026-11-03**.

DNV local station: **Ulsan**

Approval Engineer: **Marcin Tobiasz**

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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.



Product description

"A-30 Fireproof Hatch Cover (JBM-1000*1000)"
a two hinged hatch composed of a coaming, hatch leaf and sealing materials.

The hatch leaf is made of a 50 and 25 mm thick insulation type "Hi Wool" with nominal density of 120 kg/m³ (from KCC Corporation) and fixed from unexposed side with 10 mm thick steel sheet.

The 11 mm thick steel coaming is insulated inside with 50 mm thick mineral wool of the same type. The coaming is fitted at the top with ø11 mm rubber bar and welded L-profiles 40 x 6 mm.

The two steel plates (25 x 8 mm and 38.5 x 9 mm) are welded at the edges to hatch leaf and filled between with ceramic/silicone gaskets of specification 35 x 15 mm.

Total hatch leaf thickness: 85 mm

For further details, see the drawing referred to in Type Examination documentation below.

Application/Limitation

The hatch is approved for installation in steel deck of class A-30. Installation of the hatch in deck made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max hatch leaf size: 1152 x 1152 mm (width x height)
Max hatch clear opening: 1000 x 1000 mm (width x height)

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

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 product is to be supplied with its manual for installation and maintenance.

Type Approval documentation

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

Test report No. KOMERI-0402-15T3823 dated 7 June 2016 from "KOMERI"

Drawing No. JB15-8151PCTC-01 Rev. 0 (6 sheets) dated 10 October 2015 from manufacturer.

Tests carried out

Tested accordance to IMO 2010 FTP Code part 3.

Marking of product

The product 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 Programme DNV-CP-0338, Section 4.