



Certificate no.:
TAF00001W3

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Class B Door**

with type designation(s)

B-15 Class Access Hatch 25AP/50AP

issued to

Sung Mi Co., Ltd.

Gimhae-si, Gyeongsangnam-do, Republic of Korea

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 division of class B-15.

This certificate is recognized by Transport Canada.

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

Issued at **Høvik** on **2024-01-18**

This Certificate is valid until **2029-01-17**.

for **DNV**

DNV local unit: **Gimhae Station**

Approval Engineer: **Joanna Kowalczyk**

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: 2023-09

www.dnv.com

Page 1 of 2

Product description

"B-15 Class Access Hatch 25AP/50AP"

Is a single leaf hinged hatch composed of 23.8 mm (25AP), 48.8 mm (50AP) thick mineral wool of density of 120 kg/m³ manufactured by KCC Corporation and covered with 0.6 mm galvanized steel sheets on each side. The insulation layer is bonded to steel sheets with adhesive "OCUA-970SNF" (manufactured by Dai Han Polymer Ind. Co.).

The door frame is made from 0.6 mm thick galvanized steel plate and fixed by rivet (Ø3.2).

The door leaf was fitted to the door frame by one piano hinge made with 1 mm thick stainless-steel installed at opposite side to lock.

The door leaf may be fitted with door lock Sungmi Standard.

Total door leaf thickness is 50 mm (Access Hatch 50AP) or 25 mm (Access Hatch 25AP).

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

Application/Limitation

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

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.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5.

Maximum door leaf size: 945 mm x 1995 mm (W x H).

Maximum clear door opening: 900 mm x 1950 mm (W x H).

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. KOMERI-0402-21T0011(E)-A, dated 6 August 2021 from Korea Mairne Equipment Research Institute.

Test Report No. KOMERI-0402-21T2416(E), dated 22 April 2022 from Korea Mairne Equipment Research Institute.

Drawings No. SM-F-50AP-R1 (6 pages) dated 29 September 2021 from manufacturer.

Drawings No. SM-F-25AP-O (6 pages) dated 3 December 2021 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.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

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.