



Certificate No:
TAF00001KR

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class B Door

with type designation(s)
SM-B15-HSL

Issued to

Sung Mi Co., Ltd.
Gimhae-si, Gyeongsangnam-do, Korea, Republic of

is found to comply with

DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021
DNV rules for classification – Ships
DNV offshore standards

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 **2022-01-19**

This Certificate is valid until **2027-01-18**.

for **DNV**

DNV local station: **Gimhae Station**

Approval Engineer: **Kristin Grønnæss**

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

"SM-B15-HLS"

is a single leaved sliding door with door leaf constructed of an insulating core of 50 mm thick mineral wool (density 120 kg/m³, manufactured by KCC CORPORATION) with a 15 mm airgap in the centre. The insulation is fixed to 1.2 mm thick steel sheets by means of adhesive. The door leaf is additionally reinforced with 1.5 mm thick steel channels along the perimeter. The door construction is fitted with a hanger rail and roller assembly at the top of the door leaf and guide roller at the bottom.

Total door leaf thickness is 50 mm.

The three-sided door frame is constructed of 4 mm thick steel plate screwed (Ø4 mm, c/c max. 300 mm) to the bulkhead.

The door leaf may be fitted with:

- Window in the upper part of the door leaf with glass size of 440 x 440 mm and thickness of 16 mm (type "Contraflam Lite Marine B15", manufactured by Saint-Gobain). The window frame is made of 1.2 mm thick steel screwed (Ø3 mm, c/c max. 250 mm) to the door leaf.
- Kick-out panel with ventilation louver in the lower part of the door leaf made of 0.6 mm thick steel sheet. The kick-out panel is fitted to the door leaf by use of ball latch.

For further details, see drawing listed under Type Approval documentation.

The product may be produced at the premises of:

- Sung Mi Co., Ltd., 311 Yongjeonsaneopdanji-gil, Samnangjin-eup, Miryang-si, Gyeongsangnam-do, Korea.

Application/Limitation

The door is approved for installation in steel bulkheads of class B-15.

Max. clear opening:	2200 x 2500 mm (W x H)
Max. size of door leaf:	2294 x 2555 mm (W x H)
Max. clear opening of window:	400 x 400 mm (W x H)
Max. clear opening of kick-out panel:	600 x 800 mm (W x H)

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) 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.

External windows to comply with DNV rules or a recognized national or international standard (Ref. DNV Rules for classification: Ships, Pt. 3, Ch. 12, Sec. 6 [1.1.3]).

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

Type Approval documentation

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

Test report No. KOMERI-0402-15T0259 dated 17 February 2015 from KOMERI, Busan, Korea.

Drawing No. SMD-SD-141117-01 Rev. 1 dated 17 November 2014 from maker.

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, and Products (TP 14612E)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment



Job Id: **262.1-036537-1**
Certificate No: **TAF00001KR**

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.