DNV·GL

Certificate No:
TAF00001AN

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class B Door

with type designation(s)
SM-B15-HD

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

is found to comply with
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations
DNV GL rules for classification – Ships
DNV GL offshore standards

Application :

Approved for use as an integrated part of fire retarding divisions 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 GL.

Issued at **Høvik** on **2019-09-24**
This Certificate is valid until **2024-09-23**.
DNV GL local station: **Gimhae Station**

Approval Engineer: **Helge Bjørnarå**

for **DNV GL**

Mårten Schei-Nilsson
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.

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Job Id: **262.1-018277-3**
Certificate No: **TAF00001AN**

Product description

"SM-B-15-HD"
is a double leaved hinged door. The door leaves are composed of 0.6 mm thick steel plates around an insulating core of 28 mm (with air gap) and 54 mm (without air gap) Hi-Wool of density 120 kg/m^3 (from KCC Corporation). The door frame consists of 1.2 mm steel plates and are screw fixed to the bulkhead panel. The door leaves are attached to the frame with four hinges on each door leaf.

Total thickness of door leaf: 54 mm

The door leaves may incorporate:
- Window in the upper part of the door, type "Fire glass", from Saint-Gobain. Thickness: 16 mm
- Hose port in the lower corner (opposite to hinge sides). Max. size: 150 mm x 150 mm (w x h)
- Kick-out panel with ventilation louver in the lower part of the door.

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

Application/Limitation

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

Max. clear opening of double door:	2200 mm x 2200 mm (w x h)
Max. size of single door leaf:	1114 mm x 2224 mm (w x h)
Max. clear opening of window:	400 mm x 400 mm (w x h)
Max. clear opening of kick-out panel:	600 mm 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.

The door has been successfully tested with extended test period in compliance with IMO MSC.1/Circ.1319.

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

Type Approval documentation

Certification in accordance with Class Program DNVGL-CP-0338, September 2018.

Test report No. KOMERI-0402-14T0601 dated 2 April 2014 from KOMERI, Busan, Korea.

Drawing No. D-140109-1 (p.1-6) dated 9 January 2014 from the 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 "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV GL 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 DNVGL-CP-0338, Section 4.