DNV·GL

Certificate No:
TAF000012U

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class B Door

with type designation(s)
B-15 Class Single Sliding Door (SM-B15-SL)

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 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 GL.

Issued at **Høvik** on **2018-10-30**
This Certificate is valid until **2023-10-29**.
DNV GL local station: **Changwon**

Approval Engineer: **Krzysztof Kolakowski**

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.

Product description

"B-15 Class Single Sliding Door (SM-B15-SL)"
consisting of a single leaf sliding door assembly, including sliding system with rollers, locking and sealing arrangement.

The door leaf is composed of door panel made from 0.6 mm steel sheets, insulated with a 50 mm thick mineral wool of density 120 kg/m3, manufactured by KCC corporation. Total thickness of door leaf is 50 mm. The door is fitted with 16 mm thick fire glass window (contra flam lite marine B-15) of clear opening 1200 x 1900 mm, by Saint Gobain. Both the door and window frames are made of 1.2 mm steel sheets, with a 1.5 mm window reinforement by POSCO Co., Ltd. The window glass is supported by a 5 mm ceramic packing of density 96 kg/m3. A ventilator, produced by Hyundai Hysco Co., Ltd., may be fitted below the window, on the lower part of the door leaf. Maximum ventilation area is 0.045 m2.

For further details, see the drawings and test report mentioned under Type Approval documentation below.

Application/Limitation

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

Max. size of door leaf: 2060 mm x 2532 mm (W x H)

Max. size of clear opening: 2200 mm x 2500 mm (W x H)

Max. clear window opening: 1200 mm x 1900 mm (W x H)

External windows to comply with ISO 3903 (Ref. DNV GL rules for classification: Ships, Pt.3, Ch.12, Sec.6 [1.1.4]).

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations related to watertightness, weathertightness, etc.).

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2017.

Test report no. KOMERI-0402-13T1175 dated 27 Feburary 2014 from Korea Marine Equipment Research Institute (KOMERI), Busan, Korea.

Drawings no. D-130604-1, D-130604-2 and D-130604-3 all dated 4 June 2013 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 "*Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)",* DNV GL confirms that the product listed in this certificate is in accordance with Transport Canada's requirements.

Job Id: **262.1-017328-2**
Certificate No: **TAF000012U**

Periodical assessment

DNV GL'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 DNVGL-CP-0338, Section 4.