DNV·GL

Certificate No:
TAF000004F

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class B Door

with type designation(s)
SM-B15-ZB

Issued to
Sung Mi Co., Ltd.
KIMHAE-SI KYUNGNAM, Republic of Korea

is found to comply with
DNV GL offshore standards
DNV GL rules for classification – Ships

Application :

Approved for use as an integrated part of fire retarding division of class B-15.

Max clear opening 1200 mm x 2185 mm (Width x Height).

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.

This Certificate is valid until **2020-06-30**.

Issued at **Høvik** on **2015-10-20**

for **DNV GL**

DNV GL local station: **Changwon**

Approval Engineer: **Silje Helene Waagaard**

Petter Langnes
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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Product description

"SM-B15-ZB"
consisting of single leafed hinged door with door leaf constructed of an insulating core of 50 mm mineral wool of type "HI-wool" of density 120 kg/m^3, faced on both sides with 0.6 mm steel sheets. The door blade may be equipped with:

Window with 16 mm fire glass, clear opening 400 x 400 mm.

One steel kick-out panel/ventilation louver, opening size 600 x 600 mm (H x W).

Total door leaf thickness 50 m.

The door leaf is attached to the steel frame with 4 hinges.

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

Application/Limitation

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.

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

Type Approval documentation

Certification in accordance with Standard for Certification No. 1.2, Type Approval, January 2013.

Test report: No. 0402 KOMERI-10T629 dated 26 October 2010, from Korea Marine Equipment Research Institute, Busan, Korea.
Drawing: No. D-100701-1 to 6 dated 1 July 2010 by Sung Mi Co. Ltd.

Tests carried out

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product is to be marked with name of manufacturer, type designation, 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)",* Det Norske Veritas confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

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 Standard for certification No. 1.2 Type Approval Item 4.