DNV·GL

Certificate No:
MEDB00000N0

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
COSMO B-15SLVD

Issued to
Cosmo Co., Ltd.
Yangsan-si 11, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.16 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/and IMO 2010 FTP Code

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-04-10**.

Issued at **Høvik** on **2016-04-11**

DNV GL local station:
Gimhae MC & FIS

Approval Engineer:
Piotr Orzechowski

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

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Job Id:
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Product description

"COSMO B-15SLVD"
is a double leaf sliding door. The door leaf composed of a 37 mm thick insulation core of mineral wool, density 140 kg/m^3 (manufactured by KCC Corporation), faced from both sides with 0.6 mm thick steel plate. Adhesive is applied between the insulation and the steel panels.
The lower part of the door leaves (lock side), 150 x 300 mm space, are reinforced with 2 mm thick "doubling plate" from exposed and unexposed side.
A sliding rail is fitted above the door leaf, and the door leaf is fitted to the rail with four hanger rollers at the top and 2 guide rollers at the bottom. The door frame is made of 3 mm thick steel.

The door leaf may be fitted with:

- Window in the upper part of the doors, type "Contraflam B15" manufactured by Vetrotech Saint-Gobain (International AG.) with thickness of 16 mm.
- Kick out panel in lower part of the doors, maximum size 420 x 520 mm (w x h)
- Shoot bolt

Total door leaf thickness is 38 mm.

For further details see Type Examination documentation below.

Application/Limitation

Approved for use as an integrated part of fire retarding divisions of Class B-15.

Max. clear opening:	2100 x 2200 mm (w x h)
Max. clear opening window:	400 x 400 mm (W x H)
Max. size of large door leaf:	1224 x 2217 mm (w x h)
Max. size of small door leaf:	1204 x 2217 mm (w x h)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by 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 and maintenance.

Type Examination documentation

Test report No. KOMERI-0402-14T1291-1 dated 22 February 2016 from "KOMERI" Korea Marine Equipment Research Institute.

Drawing No. CD-FB15SLVDD-0 dated 12 june 2014 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, fire technical rating, the MED Mark of Conformity.

USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm^2, or less, in each door leaf. For larger windows, USCG shall be contacted.