DNV·GL

Certificate No:
MEDB00000MW

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 A-15DUT

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 A-15DUT"
is a duuble leaf door, with upper and lower door leaf. The door leaves 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. At the top of upper door leaf the door leaf is reinforced on both sides with 150x 2 mm (height x thick) steel plate. The door leaves are reinforced around with 2 mm thick steel plate from both sides. Adhesive is applied between the insulation and the steel panels.
Each door leaf is connected to the frame by 2 hinges.

The door frame is made from 1.5 mm thick steel. The door frame may be of alternative construction/sill, for detail please see drawing CD-FA15DUTD-1 page 5. The door frame may be bolted or welded to the bulkhead.

At the connection betwean two doors leave the 1.5 thick profile is fitted to the lower door leaf.

The dooe leaf may be fitted with peep lens.

Total door leaf thickness is 38 mm.

For further details see Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-15. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. size of upper door leaf:	1033 x 1052.5 mm (W x H)
Max. size of lower door leaf:	1033 x 1052.5 mm (W x H)
Max. clear opening of door:	1000 x 2100 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.

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

Type Examination documentation

Test report no. KOMERI-0402-14T0800 dated 16 November 2015 from "KOMERI" Korea Marine Equipment Research Institute.

Drawing no. CD-FA15DUTD-1 (9 pages) dated 28 March 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, MED Mark of Conformity and USCG approval number if relevant.