

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00006VT

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
COSMO A-60WETD

Issued to

COSMO Co., Ltd.
Busan, 11, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2020/1170,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511,
IMO MSC.1/Circ.1319

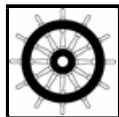
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-04-27**.

Issued at **Høvik** on **2021-04-28**

DNV local station:
Gimhae Station

Approval Engineer:
Marcin Tobiasz



Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

"COSMO A-60WETD"

A door construction consisting of double leaf steel door in a steel frame.

The door leaves are composed of 74 mm mineral wool (manufactured by KCC Corporation Gimcheon Plant) of density 240 kg/m³ faced with 4 mm steel sheet from both sides and fitted with ceramic seals (Ø23) along the edges.

The right door leaf is connected to the frame with 3 reinforced heavy duty hinges and closed to the door frame at 8 fastening points with interconnected rods and transmission which is connected to handle on both sides of the door.

The left door leaf is connected to the frame with 3 reinforced heavy duty hinges and closed to the door frame at 5 fastening points with interconnected rods and transmission which is connected to handle on both sides of the door.

The door may be fitted with vision panel manufactured by VETROTECH SAINT-GOBAIN with nominal thickness of 27 mm (in the upper part of the right door leaf) which is reinforced with 2 mm thick steel stiffeners.

The door frame is made from 5 mm thick steel sheets and may be bolted by M8 bolts (spaced 300- 350 mm apart) or welded to the bulkhead.

Total thickness of door leaf: 82 mm.

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

Application/Limitation

The door is approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP etc.) are subject to case-by-case approval.

Max. clear opening: 2000 mm x 2100 mm (w x h)

Max. size of left door leaf: 878 mm x 2126 mm (w x h)

Max. size of right door leaf: 1124 mm x 2126 mm (w x h)

Max. clear opening of window: 400 mm x 580 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.

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

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

Type Examination documentation

Test Report No. KOMERI-0402-20T3629(E) dated 6 November 2020 from "KOMERI", Korea Marine Equipment Research Institute.

Drawing No. CD-FA60WETDD-3 (11 pages) dated 15 September 2020 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 and address of manufacturer, type designation, fire technical Rating, the MED Mark of Conformity and USCG approval Number if applicable (see first page).

USCG Approval limitations

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