

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008J8

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)
B-15 Fire Door MB15-II

Issued to

CSSC - Jiangxi Chao Yang Machinery Co., Ltd.
Jiujiang, Jiangxi, China

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

Regulation **(EU) 2023/1667**,

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

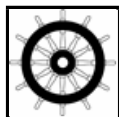
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-10-23**.

Issued at **Høvik** on **2023-10-24**

DNV local unit:
Wuhan NB & CMC

Approval Engineer:
Izabela Misztal



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 1/2023 dated August 21st, 2023.



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

B-15 Fire Door MB15-II,

A single-leaf steel door composed of an insulating core of a 36 mm thick rock wool of ABM-SR type and of 120 kg/m³ density (manufactured by Shanghai ABM Rock Wool Dafeng Co., Ltd.) faced on both sides with 0.5 mm galvanized steel sheets. The insulation is glued to the steel sheets by means of an adhesive. The door leaf is attached to the four sided door frame by means of 3 hinges and is either welded or bolted (M6x25) to the bulkhead, spaced maximum 250 mm apart. The fireproof seal strip 14 mm x 16 mm is used at the inside of the door frame and is provided by Jiangyi Lide Decorations Co. Ltd. The door leaf is covered around the four sides by a layer of 1.0 mm thick stainless steel edge.

Total thickness of door leaf is 40 mm.

The door leaf may be fitted with:

- Window located in the upper center part, consisting of a fireproof glass manufactured by Yixing Yushi Specific Glass Co. Ltd., of 30 mm thickness (composed of 8 mm armored glass, 14 mm fire retardant solution, 8 mm armored glass);
- Escape with a ventilation louver located in the lower part of the door leaf;
- Hose port located in the lower corner of the door leaf (in the opposite side to the hinged side);
- Lock of "C1" type installed 1000 mm above the bottom of door leaf;

For further details, see drawings listed under Type Examination documentation.

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.

Max size of door leaf:	1075 x 2108 mm (W x H)
Max clear opening of door:	1050 x 2100 mm (W x H)
Max clear opening of window:	400 x 400 mm (W x H)
Max clear opening of hose port:	150 x 150 mm (W x H)
Max clear opening of escape with ventilation louver:	440 x 545 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.

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

Type Examination documentation

Test report No. FT22157 dated 22 September 2022 from Far East Fire Testing Centre (FEFTC) Shanghai, China.

Test report No. FT23099 dated 31 March 2023 from Far East Fire Testing Centre (FEFTC) Shanghai, China.

Dwg. nos 262CYC189-00SY, 262CYC189-00, 262CYC189-1-0, 262CYC189-2-0, 262CYC189-3-0, Q/CYC56.435 dated 6 September 2021 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 number if applicable (see front page).

USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.