TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB0000915

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)
CMWS-FWTD-A0 Fire Door

issued to
China Marine Windows Shipyard Co., Ltd.
Kaohsiung, Taiwan Region

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
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 **2030-01-07**.

Issued at **Høvik** on **2025-01-08**

DNV local unit:
Kaohsiung

Approval Engineer:
Meike Grabau

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
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.

NORWEGIAN ACCREDITATION PROD 019

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

"CMWS-FWTD-A0 Fire Door"
is a class A-0 single-leaf hinged steel fire door.

The door leaf consists of 6 mm thick steel plate and four horizontal 8 mm thick steel stiffeners (38 mm x 38 mm).

Along the edges of the outer steel cover of the door leaf, 32 mm x 20 mm ceramic fiber packing (128 kg/m³), produced by INCA, is fitted with a 6 mm thick steel plate packing holder. The door leaf is connected to the frame with three steel hinges and closed to the door frame by a locking system with eight fastening points consisting of opening handles (wheels) controlling linkage rods. Around the door leaf, an 4 mm x 30 mm intumescent strip is installed.

The door frame is made from 8 mm thick steel plate and either welded or bolted (M8 with 2 mm fire resistant packing) to the A-class bulkhead spaced maximum 110 mm apart.

The upper part of the door leaf is fitted with a window. The window is composed of an 6 mm outer cover steel plate + fireproof silicon INSS2460, produced by INCA + 15 mm (+/- 1%) thick fireproof glass GLA0, manufactured by Gelling Technical Corporation + 13 mm thick ceramic fiber, produced by INCA + 2 mm thick inner steel cover.

For further details refer to the documents listed under "Type Examination documentation" below.

Application/Limitation

Approved for installation in steel bulkheads of class A-0. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Maximum door leaf size: 980 mm x 1880 mm (W x H)
Maximum clear door opening: 900 mm x 1800 mm (W x H)
Maximum clear window opening: Ø 250 mm

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

A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

The door has been successfully tested for extended test period of 68 minutes.

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

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.).

Type Examination documentation

Test report no. FPSRC-D0584-IMO-F-11 dated 20 November 2024 from National Cheng Kung University, Fire Protection and Safety Research Center, Tainan City, Taiwan.

Tests carried out

Tested according to IMO 2010 FTP Code Annex 1, 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).