EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007DJ

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)
TNF marine A15 single leaf hinged door with fireproof window and hose port

Issued to
INEXA Interiors (Nantong) Co., Ltd.
Nantong City, Jiangsu Province,, China

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 **2026-06-23**.

Issued at **Høvik** on **2021-06-24**

DNV local station:
Nantong

Approval Engineer:
Karolina Kuśmider

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"TNF marine A-15 Single Leaf Hinged Door with Fireproof Window and Hose Port"
is a single leaf hinged door constructed of 0.56 mm thick steel plates with an insulating core of one layer of a 36 mm thick ABM-SR type rock wool (density 150 kg/m^3, produced by Shanghai ABM Rock Wool Co., Ltd.). A galvanized steel profile of 0.7 mm thickness is fitted along the perimeter of the door leaf. The insulation is glued to the steel plates with YEBOND2002X 8#/YEBOND8001 type adhesive produced by Shanghai Ningrui Chemical Engineering Co., Ltd.

Total door leaf thickness: 38 mm.

The door leaf is fixed to the frame with 3 steel hinges. The three-sided door frame is composed of 3 mm thick steel plate and the frame may either be welded or bolted (M8 x 40) to the bulkhead spaced maximum 260 mm apart in width direction and 250 mm apart in length direction.

The door may be fitted with:

- A fireproof window in the upper part of the door. Its size is 540 mm x 540 mm (W x H) and its thickness is 32 mm. The window is produced by Yi Xing Yu Shi Special Glass Co., Ltd. From both sides the window is composed of 5 mm thick tempered glass from both sides and a 22 mm thick fire-retardant solution.
- A hose port of 150 mm x 150 mm size.
- A fireproof C-1 type lock provided by Shanghai Dongsheng Lock Factory. The lock is installed on the other side of the door leaf at 1100 mm height above the bottom edge of the door leaf.

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

Application/Limitation

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.

Maximum door leaf size:	1236 mm x 2212 mm (W x H)
Maximum clear door opening:	1200 mm x 2200 mm (W x H)
Maximum clear window opening:	500 mm x 500 mm (W x H)
Maximum clear fire hose opening:	150 mm x 150 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. FT20114 dated 1 June 2020 from Far East Fire Testing Centre, Shanghai, China.

Dwg. No. TNF-A15ZF-FT-001 (8 sheets) dated 13 December 2018, from the 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).