

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000086R

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)
Class B-15 Single Leaf Fire Door of TNF-B15HD Type

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) 2022/1157,
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

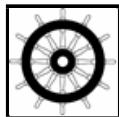
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-12-03**.

Issued at **Høvik** on **2022-12-04**

DNV local unit:
Nantong

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 1/2019 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-B15HD – Single Hinged (B-15)",
is a single leaf hinged door composed of an insulating core of 38 mm thick BSS type rock wool (density 150 kg/m³, manufactured by Weihai Bosheng Advanced Materials Co., Ltd.) faced on each side with 0.56 mm thick galvanized steel plates. Insulation material is fixed by means of adhesive. The door leaf is rimmed with one layer of a 0.7 mm thick galvanized steel plate.

Total door leaf thickness is 38 mm.

The door leaf is attached to the door frame with three hinges.

The three-sided door frame is composed of 1.5 mm thick galvanized steel plate and is connected to the bulkhead with self-tapping screws. The size of self-tapping screws is Ø4.2 x 16 mm spaced maximum 450 mm apart.

The door leaf may incorporate:

- A fireproof window in the upper centre part of the door. Its size is 540 mm x 540 mm (W x H) and thickness 32 mm. The fire glass is produced by Yixing Yu Shi Special Glass Co., Ltd. From both sides the window is composed of 5 mm thick toughened glass from both sides and a 22 mm thick fire-retardant solution.
- 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.
- An escape with ventilation grills in the lower part of the door leaf. Its size is 600 mm x 800 mm (W x H). One ventilation grill is situated in the upper part, the other in the lower part of the escape.

For further details see test reports listed under Type Examination documentation below.

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.

Maximum clear opening of door:	1100 x 2200 mm (W x H)
Maximum size of door leaf:	1132 x 2210 mm (W x H)
Maximum clear opening of window glazing:	500 x 500 mm (W x H)
Maximum size of ventilation grill:	600 x 800 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 product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test report No. FT21230 dated 16 July 2021 from Far East Fire Testing Centre, Shanghai, China.
Test report No. FT22052 dated 22 June 2022 from Far East Fire Testing Centre, Shanghai, China.

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, 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.