

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)
TNF-EB15 (B-15 CLASS BULKHEAD EXTENSION BOARD)

Issued to

TNF Inexa Korea Co., Ltd.
Yongsan-si Gyeongsangnam-do, Republic of Korea

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

Annex A.1, item No. A.1/3.11b and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2.3.4.4. and IMO 2010 FTP Code.

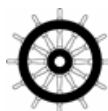
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-09-01**.

Issued at **Høvik** on **2016-09-02**

DNV GL local station:
Gimhae

Approval Engineer:
Espen Kultorp



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Product description

"TNF-EB15" (B-15 Class bulkhead extension board)

Extension boards composed of 2 layers of 15 mm thick mineral wool with density 200 kg/m³ manufactured by Byucksan Co. Ltd. The layers are horizontally shifted 50 mm relative to each other, and joined together using insulation clips with a spacing of max. 250 mm horizontal and vertical.

The boards are covered by glass fiber cloth w/aluminium foil on both sides and joined together using insulation pins.

The boards are attached to the bulkhead below by insulation pins (on unexposed side) connected to an U-profile which is placed on top of the bulkhead. On exposed side, the U-profile is attached to the deck above with hanger pieces (L – steel profile 25 x 25 x 3 mm).

The boards are attached to the deck above by insulation pins connected to a steel angle which is welded to the deck max. 250 mm spacing between pins.

Total thickness of the extension boards: 30 mm.

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

Application/Limitation

Approved for use as an extension of a vertical fire retarding division of class B-15.

The wall extension may only be installed in concealed and inaccessible spaces.

Max. extension board size: 1050 x 1000 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 product is to be supplied with its manual for installation and use.

Type Examination documentation

Test report No. KOMERI-0402-1ST3264, dated 27 January 2016 from Korea Marine Equipment Research Institute, Busan, Korea.

Drawing no. TNF-EB15-001-01 dated 5 July 2015 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG marking if applicable (see page 1).