

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB00001NU**  
Revision No:  
**1**

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 GL AS under the authority of the Government of Norway.

## This is to certify:

**That the "B" Class divisions, fire integrity**

with type designation(s)  
**B-15 Cabin Wall Extension**

Issued to  
**Thermal Ceramics UK Ltd**  
**Wirral, Merseyside, United Kingdom**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2019/1397**,  
**item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1581**

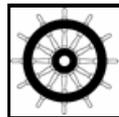
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-04-02**.

Issued at **Høvik** on **2020-04-03**

DNV GL local station:  
**Manchester**

Approval Engineer:  
**Helge Bjørnarå**



Notified Body  
No.: **0575**

for **DNV GL AS**

**Roald Vårheim**  
**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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **344.1-004832-3**  
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## Product description

"B-15 Cabin Wall Extension",  
composed of 30 mm FireMaster Marine Plus Blanket (density 80 kg/m<sup>3</sup>) faced on both sides with aluminium foil. The blanket is to be fixed to deck above, side walls and top of B-15 divisions by pins and washers or screws.

Junctions of the Wall Extension may be arranged by:

- overlap (100 mm) of adjacent blankets fixed by Ø3 mm needles with washers (minimum distance between needles to be 150 mm for vertical Wall Extension and 100 mm in the curves of the Wall Extension when it is bent), or
- use of a 150 mm cover strips (same blankets) fixed by two rows (75 mm from each other) of Pig Tails or Ø3 mm needles with washers (minimum distance along the junction between Pig tails/needles to be 150 mm for straight vertical Wall Extension and 100 mm in the curves of the Wall Extension when it is bent).

All penetrations for cables, cable trays, plastic pipes up to Ø 200 mm, stiffeners, etc. have to be sealed with at least 10 mm mastic/putty on one side of the Wall Extension.

Following sealant materials may be used: ISOLFLAM X 100, ISOLFLAM X 105 and FireMaster Putty. Plastic pipes of diameter over 110 mm shall be insulated on a length of 100 mm on both sides of the Wall Extension with one layer of FireMaster Marine Plus Blanket (t = 30 mm, density 80 kg/m<sup>3</sup>).

The insulation shall be fixed on the plastic pipe by steel wire.

Maximum height of the Wall Extension: 2000 mm

The installation is to be performed according to the manufacturers Fire Protection Systems Information, reference No. FM MS 11 and No. FM 4.110.

## Application/Limitation

Cabin wall extension approved for use as of class B-15 fire retarding division.

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

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, use and maintenance.

## Type Examination documentation

Test report No. 13-V-806 dated 10 December 2013 from Efectis, Maizières-lès-Metz, France.  
Test report No. 14-V-000430 B dated 17 September 2014 from Efectis, Maizières-lès-Metz, France.  
Test report No. 14-V-000414 B dated 17 September 2014 from Efectis, Maizières-lès-Metz, France.  
Test report No. 14-F-001692 dated 17 September 2014 from Efectis, Maizières-lès-Metz, France.  
Technical Assessment 14/2 B dated 3 November 2014 from Efectis, Maizières-lès-Metz, France.

Thermal Ceramics Fire Protection Systems Information, reference No. FM MS 11, Rev. 1 and No. FM 4.110, Rev. 6.

## 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, Mark of Conformity and USCG number if applicable (see page 1).