

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 the Kingdom 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) 2015/559**,
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.

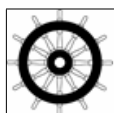
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2020-06-25**.

Issued at **Høvik** on **2016-12-12**

DNV GL local station:
Manchester

Approval Engineer:
Helge Bjørnara



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Product description

"B-15 Cabin Wall Extension"

composed of 30 mm FireMaster Marine Plus Blanket (density 80 kg/m³) 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/m³).

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 Fire Protection Systems Information reference FM 4.110 Rev 4 and Manual "Marine & Offshore Fire Divisions – bulkhead, deck & floor systems" issued by Morgan Advanced Materials.

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 November 3rd 2014 from Efectis, Maizières-lès-Metz, France

Fire Protection Systems Information reference FM 4.110 from Morgan Advanced Materials. Manual "Marine & Offshore Fire Divisions – bulkhead, deck & floor systems" from Morgan Advanced Materials



Job Id:
Certificate No: **MEDB00001NU**

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).