

Certificate No: **MEDB00003YD**

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 Norway.

This is to certify:

That the "A" Class divisions, fire integrity

with type designation(s) **A-60 Corrugated Fire Wall**

Issued to

Thermal Ceramics UK Ltd Wirral Merseyside, United Kingdom

is found to comply with the requirements in the following Regulations/Standards: Regulation **(EU) 2017/306,**

item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434

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

This Certificate is valid until 2023-04-07.

Issued at Høvik on 2018-04-08

DNV GL local station:

Manchester

Approval Engineer: **Helge Bjørnarå**

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for **DNV GL AS**

Notified Body No.: **0575** Roald Vårheim Head of Notified Body

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



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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.

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.

Job Id: **344.1-000502-90** Certificate No: **MEDB00003YD**

Product description

A-60 Corrugated Fire Wall,

composed of a minimum 1.5 mm thick stainless steel plate (alternatively 2 mm thick mild steel plate) insulated on one side with two layers of 50 mm thick FireMaster Marine Plus Blanket (density 48 kg/m³). The corrugations are to be filled with FireMaster Marine Plus Blanket (density 48 kg/m³). The joints between adjacent blankets shall be offset in each layer by approximately 300 mm and no less than 150 mm.

The blankets are held in place using copper coated mild steel pins (Ø 3 mm / typically 160-180 mm long) welded to the fire wall and 38 mm friction-fit washers. The pins are to be installed with a maximum spacing of 300 mm. At the joints the blankets should be compressed. Joints between blankets can be placed a maximum of 350 mm from an anchor pin across the blanket width and a maximum of 250 mm from an anchor pin where lengths of blanket are joined together.

The installation is to be performed according to the manufacturers Fire Protection Systems Information, reference No. FM-MS 01 PW and No. FM 4.105.

Application/Limitation

Approved for use as a non-load bearing fire retarding vertical division of class A-60.

General application: Fire hazard from either side

Arrangement and fastening of the wall is subjected to approval in each case.

The use of this product shall be limited to applications specifically approved by the Administration in question, see IMO 2010 FTP Code part 3, Appendix 1, items 1.12 and 1.13. The construction shall in any case not be used as part of main fire zone bulkheads and stairways enclosures on passenger ships (see also IMO MSC/Circ.1005).

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 maintenance.

Type Examination documentation

Test report No. AK2012-0238 dated 20 August 2012 from FILK, Korea. Test report No. KOMERI-0402-14T0719 dated 2 October 2014 from KOMERI, Busan, Korea.

Thermal Ceramics Fire Protection Systems Information, reference No. FM-MS 01 PW and No. FM 4.105, Rev. 1.

Tests carried out

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) and in compliance with IMO 2010 FTP Code Ch. 8. New test 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 front page).

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