

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00001WN
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 Surface materials and floor coverings with low flame-spread characteristics: decorative veneers

with type designation(s)

FireMaster Marine Plus "Alu 20R", FireMaster Marine Plus "GC" and FireMaster Marine Plus Blanket "ALGC"

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,**

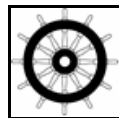
item No. MED/3.18a. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code

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

This Certificate is valid until **2021-11-03.**

Issued at **Høvik** on **2020-07-14**

DNV GL local station:
Manchester



for **DNV GL AS**

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-000502-105**
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Product description

FireMaster Marine Plus Blanket "Alu 20R", FireMaster Marine Plus Blanket "GC" and FireMaster Marine Plus Blanket "ALGC",
FireMaster Marine Plus insulation blanket of thickness 25-50 mm, made from alkaline earth silicate fibres, with nominal density 48-128 kg/m³, faced with either 0.3-1.0 mm glass screen reinforced aluminium foil (Alu 20R) or 0.2 mm glass fabric (GC) or 7 µm aluminium foil fibreglass fabric (ALGC).

The reinforced aluminium foil, glass fabric or aluminium foil fibreglass fabric is glued to the insulation blanket.

Application/Limitation

Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

The product satisfies the requirement for maximum calorific value (ref. Solas Chapter II-2, Reg 5.3.2.2) without further testing.

Each product is to be supplied with its manual for installation and use.

Type Examination documentation

Test report No. 148468 dated 29 September 2005 from Warringtonfire, UK.
Test report No. 150295 dated 16 November 2005 from Warringtonfire, UK.
Test report No. 2007CSO12175 dated 4 July 2007 from RINA, Italy.
Test report No. FT10066 dated 12 January 2010 from FEFTC, Shanghai, China.
Test report No. A2011-1322 dated 19 March 2012 from FILK, Gyeonggi-Do, Korea.
Test report No. A2011-1323 dated 19 March 2012 from FILK, Gyeonggi-Do, Korea.
Test report No. TZ/FTP5a/049/2020 dated 20 March 2020 from WPUT, Szczecin, Poland.

Tests carried out

Tested according to IMO FTP Code Part 5 and Annex 2 item 2.2 and in compliance with IMO 2010 FTP Code Ch. 8 and Annex 2 item 2.3 (-2011) and according to IMO 2010 FTP Code Part 5 and Annex 2 item 2.2 and 2.3 (2020-).

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 page 1).