

# 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 "A" Class divisions, fire integrity**

with type designation(s)

**A-60 Aluminium Deck - 50 mm FireMaster Marine Plus Blanket**

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,**

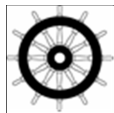
**Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO 2010 FTP Code.**

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

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

Issued at **Høvik** on **2016-11-04**

DNV GL local station:  
**Manchester**



for **DNV GL AS**

Approval Engineer:  
**Helge Bjørnarå**

Notified Body  
No.: **0575**

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**Vidar Dolonen**  
**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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-000502-63**  
Certificate No: **MEDB00001W2**

## **Product description**

A-60 Aluminium Deck - 50 mm FireMaster Marine Plus Blanket, composed of a structural aluminium deck insulated on the exposed side (underside deck) with a single layer of 50 mm thick FireMaster Marine Plus Blanket (density 70 kg/m<sup>3</sup>) applied across the tops of stiffeners following their contours.

The nominal blanket width is 610 mm and is to be compressed to a width of 580 mm to ensure compression at joints.

The blankets are held in place using stainless steel pins with bi-metallic anchor (Ø 3 mm / typically 65 mm long) welded to the deck and 38 mm friction-fit stainless steel washers. The pins are to be installed with a nominal spacing of 240 mm, whereas pins at the joints between blankets shall have a nominal spacing of 100 mm from the blanket edge.

The installation is to be performed according to the manufacturers Fire Protection Systems Information No. FM-MS 02 and No. FM 4.62.

## **Application/Limitation**

Approved for use as a horizontal fire retarding division of class A-60.

The deck may also be used in horizontal fire resisting divisions in High Speed Craft.

The insulation material FireMaster Marine Plus Blanket has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

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

## **Type Examination documentation**

Test report No. 227552 dated 12 April 2006 from BRE Testing, Garston, UK.

Thermal Ceramics Fire Protection Systems Information, reference No. FM-MS 02 PW and No. FM 4.62, Rev. 2.

## **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.

## **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).