DNV·GL

Certificate No:
MEDB00001WT

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 Bulkhead - 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

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

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Product description

A-60 Aluminium Bulkhead - 50 mm FireMaster Marine Plus Blanket,
composed of a structural aluminium bulkhead insulated on the stiffened side with a single layer of 50 mm thick FireMaster Marine Plus Blanket (density 70 kg/m^3) applied across the top 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 bulkhead 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, reference No. FM-MS 02 PW and No. FM 4.63.

Application/Limitation

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

Restricted application: Fire hazard from the insulated side only

The bulkhead may also be used in vertical 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. 2006CS012383 dated 21 July 2006 from RINA, Genoa, Italy.

Thermal Ceramics Fire Protection Systems Information, reference No. FM-MS 02 PW and No. FM 4.63, Rev. 1.

Tests carried out

Tested according to IMO FTPC 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).