

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-30 Steel Bulkhead - FireMaster Marine Plus Blanket 45 mm x 64 kg/m3 (25 mm on stiffeners)

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.

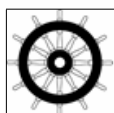
Further details of the equipment and conditions for certification are given overleaf.

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

Issued at **Høvik** on **2016-11-04**

DNV GL local station:
Manchester

Approval Engineer:
Helge Bjørnara



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Job Id:
Certificate No: **MEDB00001WS**

Product description

A-30 Steel Bulkhead - FireMaster Marine Plus Blanket 45 mm x 64 kg/m³ (25 mm on stiffeners), composed of a structural steel bulkhead insulated on the stiffened side with a single layer of 45 mm thick FireMaster Marine Plus Blanket (density 64 kg/m³) applied between stiffeners and one layer 25 mm (200 mm wide strip) over stiffeners.

The blankets are held in place using copper coated steel pins (Ø 3 mm / typically 60 mm long) welded to the bulkhead and 38 mm friction-fit washers. The pins are to be installed with a nominal spacing of 225 mm across the blankets and maximum 350 mm along the blankets, 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 01 PW and No. FM4.99.

Application/Limitation

Approved for use as a vertical fire retarding division of class A-30.

General application: Fire hazard from either side

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. FT10193 dated 24 May 2010 from FEFTC, Shanghai, China.

Thermal Ceramics Fire Protection Systems Information, reference No. FM-MS 01 PW and No. FM4.99, 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.

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).