

# EC-TYPE EXAMINATION CERTIFICATE

Certificate No:  
**MED-B-9748**  
Item No:  
**A1/3.11a**  
Job Id:  
**344.1-000502-17**

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2013/52/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. 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 Aluminium Bulkhead - Fire Towards Insulated Side**

Issued to  
**Thermal Ceramics UK Ltd**  
**WIRRAL MERSEYSIDE, United Kingdom**

is found to comply with the requirements in the following Regulations/Standards:  
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 FTP Code.

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

**Høvik, 2015-04-13**  
for **DNV GL AS**



This Certificate is valid until  
**2020-04-13**

  
**Marianne Strand Valderhaug**  
Head of Department

Notified Body No.: **0575**

DNV GL local office:  
**Manchester**



  
**Patrick Aubert**  
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

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### Product description

"A-30 Aluminium Bulkhead – Fire towards insulated side",  
composed of a 6 mm thick aluminium bulkhead insulated on the stiffened side with a single layer of 40 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 60 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 max. 350 mm between stiffeners, whereas pins along the stiffeners and at the joints shall have a nominal spacing of 200 mm.

Maximum distance between pins and blankets edge to be 100 mm.

The installation is to be performed according to the manufacturers Method Statement No. FM-MS 02 PW and Fire Protection Systems Information reference and No. FM 4.60.

### Application/Limitation

Approved for use as a fire retarding division of class A-30 for 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. FT08148 dated 12 December 2008 from Far East Fire Testing Laboratory, Shanghai, China.

Thermal Ceramics Method Statement No. FM-MS 02 PW and Fire Protection Systems Information reference and No. FM 4.60.

### Test 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 of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG approval number if applicable (see below).

### Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.



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### USCG Approval

An 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.



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