DNV·GL

Certificate No:
TAF00000YC

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class H Lightweight Horizontal Partition and Deck

with type designation(s)
H-0 Steel Deck - 40 mm FireMaster Marine Plus Blanket

Issued to
Thermal Ceramics UK Ltd
Wirral, Merseyside, United Kingdom

is found to comply with
DNV GL offshore standards

Application :

Approved for use as a horizontal fire retarding division of class H-0.

Issued at **Høvik** on **2018-05-28**
This Certificate is valid until **2023-05-27**.
DNV GL local station: **Manchester**

for **DNV GL**

Approval Engineer: **Helge Bjørnarå**

Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

H-0 Steel Deck - 40 mm FireMaster Marine Plus Blanket,
composed of a structural steel deck insulated on the exposed side (underside deck) with a single layer of 40 mm thick FireMaster Marine Plus Blanket (density 70 kg/m^3) 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 600 mm at joints.

The blankets are held in place using steel pins (Ø 3 mm / typically 12 to 25mm longer than blanket thickness) welded to the deck and friction-fit steel washers. The pins are to be installed with a nominal spacing of 300 mm crosswise the blanket and 350 mm max. lengthwise the blanket.

The installation is to be performed according to the manufacturers Method Statement No. FM MS 01 PW and Fire Protection Systems Information No. FM 4.91.

Application/Limitation

Approved for use as a fire retarding deck of class H-0.

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

The products may be manufactured at the premises of:
- Thermal Ceramics de France S.A., Saint Marcelin en Forez, France
- Thermal Ceramics, Augusta, United States
- Thermal Ceramics Korea, Daegu, Korea
- Murugappa Morgan Thermal Ceramics, Ranipet, India
- Murugappa Morgan Thermal Ceramics Ltd., Gujarat, India
- Morgan Thermal Ceramics (Shanghai) Co., Ltd., Shanghai, China
- Morgan Kailong (Jingmen) Thermal Ceramics Co., Ltd., Jingmen, China

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2017.

Test report No. FT08149 dated 21 July 2008 from Far East Fire Testing Centre, Shanghai, China.

Thermal Ceramics Method Statement No. FM MS 01 PW and Fire Protection Systems Information No. FM 4.91, Rev. 1.

Tests carried out

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) with the hydrocarbon time-temperature curve specified in ISO 834-3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire technical rating.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.