DNV·GL

Certificate No:
TAF00000YE

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class H Fire Wall and Bulkhead

with type designation(s)
H-60 Steel Bulkhead – 2 x 50 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 vertical fire retarding division of class H-60.

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

Approval Engineer: **Helge Bjørnarå**

for **DNV GL**

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-60 Steel Bulkhead – 2 x 50 mm FireMaster Marine Plus Blanket,
composed of a structural steel bulkhead insulated with two layers of 50 mm thick FireMaster 607 or FireMaster Marine Plus Blanket (density 96 kg/m^3) fixed to the bulkhead with galvanized chicken wire and steel pins with washers and compressed to a total thickness of about 80-90 mm.

The nominal blanket width is 610 mm and is to be compressed to a width of 600 mm to ensure compression at joints.

The blankets are to be fitted in horizontal strips and the joints between each layer are to be staggered by approximately half a strip width.

The installation is to be performed according to the manufacturers Method Statement No. FM MS 01 PW and Fire Protection Systems Information No. FM 4.33.

Application/Limitation

Approved for use as a fire retarding bulkhead of class H-60.

General application: Fire against either side*

*In areas with requirements to maximum steel temperature in load bearing constructions, the bulkhead is approved for restricted application: Fire against insulated side

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. 211124 dated 26 February 2003 from Building Research Establishment Ltd, UK.

Thermal Ceramics Method Statement No. FM MS 01 PW and Fire Protection Systems Information No. FM 4.33, 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.