

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-17701
This Certificate consists of 2 pages

This is to certify that the
Class H Lightweight Horizontal Partition and Deck


with type designation(s)
H-120 DECK

Manufactured by
Thermal Ceramics Europe
Wirral, Merseyside L62 3PH, United Kingdom

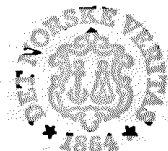
is found to comply with
Det Norske Veritas' Offshore Standards
Det Norske Veritas' Rules for Classification of Ships

Application
Approved for use as a fire retarding deck of class H-120.

Place and date
Høvik, 2005-01-24
for DET NORSKE VERITAS AS



Kristin Urdahl
Head of Section



Local Office
DNV Liverpool

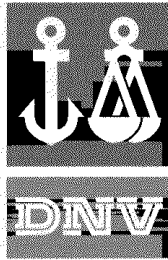
This Certificate is valid until
2009-06-30



Liv Tesli Haugen
Surveyor

Notice: 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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: F-17701
File No.: 471.74

Product description

"H-120 DECK"

composed of steel deck insulated with two layers of non-combustible FireMaster 607 Blanket (density 96 kg/m³). The inner layer is 38 mm thick and the outer layer is 50 mm thick.

The 610 mm wide insulation is fixed to the deck with pins with washers and compressed to a width of 580 mm. The blankets are to be fitted across the stiffeners and the joints between each layer are to be staggered by approximately half a strip width.

Application/Limitation

Approved for use as a fire retarding deck of class H-120. Fire against insulated side.

The product is to be supplied with its manual for installation, use and maintenance.

The insulation material is manufactured at the Thermal Ceramics' premises in France.

Type Approval documentation

Certification in accordance with Certification Note No. 1.2, Type Approval, December 1996.

Test report No. 219326 dated 18 November 2004 from Building Research Establishment Ltd. (BRE), Watford, UK.

Tested according to IMO Res. A.754(18) with HC time/temperature curve.

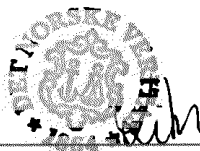
Marking of product

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

Certificate retention survey

Det Norske Veritas' surveyor is to be given permission to perform Certification Retention Surveys at any time during the validity period of this certificate. The arrangement is to be in accordance with procedure described in item 4.3, Certification Note No. 1.2.

END OF CERTIFICATE



Handwritten signature