



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-19393

This is to certify that the
Class H Fire Wall and Bulkhead

with type designation(s)
Lite Core Marine Panel H-120

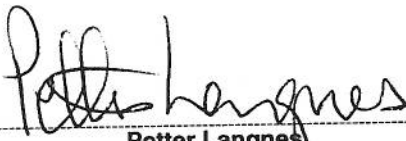
Manufactured by
LiteCore A/S 2010
Vodskov, Denmark

is found to comply with
Det Norske Veritas' Interpretation of SOLAS 1974 Convention as Amended
Det Norske Veritas' Rules for Classification of Ships
Det Norske Veritas' Offshore Standards

Application

Approved for use as a non load-bearing fire retarding wall meeting for a period of 120 minutes the requirements to stability, integrity and insulation for class H-120 divisions.

Høvik, 2010-06-09
for Det Norske Veritas AS

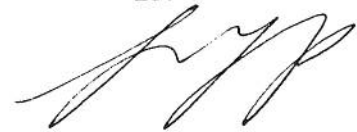


Petter Langnes
Head of Section



DNV local office:
Aalborg

This Certificate is valid until
2014-06-30



Jae Park
Surveyor

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.



Certificate No.: F-19393
File No.: 471.72
Job Id.: 262.1-010062-1

Product description

"Lite Core Marine Panel H-120"

Bulkhead assembled by panels consisting of 95 mm thick calcium silicate boards, type Skamol SuperPro 300 (density 300 kg/m³). The panels were glued together in the key/groove joints with Skamol SuperPro Glue, 450 g/m². Total thickness of panels is 95 mm.

Max. size panels: 600 x 1215+1185 mm (w x h).

Application/Limitation

Limitation: The division shall not be used as a load bearing division

Arrangement and fastening of the wall is subject to approval in each case.

Any surface layer attached to the insulation material is to be approved according to IMO FTP Code Part 2 and 5. If the surface layer is glued to the insulation material, the glue that is used in practice should be the same that is used in the test.

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

Type Approval documentation

Certification in accordance with Standard for Certification No. 1.2, Type Approval, April 2009.

Test report PG 11459 Serial No. 10052 dated 19 April 2005 and Assessment PH12747 dated 7 July 2005 from Danish Institute of Fire and Security Technology (DIFT), Denmark.

Certificate Retention Survey report dated 08 March 2010 from DNV Aalborg.

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) with the furnace temperature following the hydrocarbon curve specified in EN 1363-2.

Marking of product

The product 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 and at least every second year. The arrangement is to be in accordance with procedure described in Standard for Certification No. 1.2 item 4.

