

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. 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)  
**Class A-0 bulkhead**

Issued to  
**LiteCore A/S 2010**  
**Aars, Denmark**

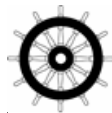
is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2015/559,**  
**Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive; SOLAS 74 as amended,**  
**Regulation II-2/3.2.5 and IMO 2010 FTP Code.**

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

This Certificate is valid until **2021-09-25.**

Issued at **Høvik** on **2016-09-26**

DNV GL local station:  
**Aalborg**



for **DNV GL AS**

Approval Engineer:  
**Tomasz Werchowicz**

Notified Body  
No.: **0575**

**Vidar Dolonen**  
**Head of Notified Body**

A 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.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-000433-9**  
Certificate No: **MEDB00001F6**

## **Product description**

"Class A-0 Bulkhead"

Bulkhead assembled by panels consisting of 23 mm thick calcium silicate boards (type Skamol Super Pro 300, density 300 kg/m<sup>3</sup>). The panels were joined together with two "single omega profiles", consisting of an omega profile (0.8 mm galv. steel) on one side and a flat steel on the other side, fixed together with screws, spaced maximum 250 mm apart.

Total panel thickness 23 mm.

For details, see drawing no. "OMEGA A-15-1", rev. 02 dated 23 October 2006 in test report.

## **Application/Limitation**

Approved for use as a non-loadbearing vertical fire retarding division of class A-0.

Maximum size of each panels: 1200 x 2440 mm (width x height).

The use of this product shall be limited to applications specifically approved by the Administration in question, see IMO 2010 FTP Code part 3, Appendix 1, items 1.12 and 1.13. The construction shall in any case not be used as part of main fire zone bulkheads and stairways enclosures on passenger ships (see also IMO MSC/Circ.1005).

The insulation material and any adhesives and surface materials used have 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, use and maintenance.

## **Type Examination documentation**

Test Report PG 11662 Serial No. 10828 dated 27<sup>th</sup> October 2006 from DIFT, Denmark.

## **Tests carried out**

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch.8.

## **Marking of product**

The product or packing is to be marked with name and address of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG marking if applicable (see first page).