



European notified body  
Identification number 0736

## EC-Type Examination (Module B) Certificate

Certificate No. **102.333**

U.S. Coast Guard Approval No.

**164.110/EC0736/102.333**

Name and address of the manufacturer: **Lethe GmbH  
Seehafenstraße 17  
21079 Hamburg (Germany)**

Date of issue: **11.06.2014**

Annex A.1 Item No & Item designation: **A.1/3.11 b – "B" class divisions, fire integrity**

Product designation: **Horizontal "B-15" class division**

Product Type: **Ceiling Type LM46-LWC-B15**

Intended purpose: **"B" class division for sea going vessels according complying with SOLAS 74/88 Reg. II-2/9 and II-2/3.4 as amended**

Testing based on (Specific standard): **IMO Resolution MSC.307 (88)-(FTP-Code 2010)\*  
\*) = not applicable accordance chapter 8.3 IMO Resolution MSC.307 (88)  
IMO Resolution MSC.61(67)-(FTP-Code), Annex 1, Part 3**

Remarks: **see page 2 + 3**

The type tested was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 96/98/EC as amended by Directive 2012/32/EU subject to any conditions in the schedule (part of this certificate).

This certificate may only be used in connection with module(s) **D, E or F** of this directive.

Expiry date: **10.06.2019**



Signature (Bork)

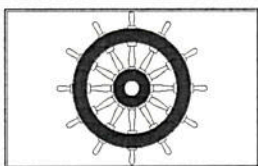


Installed equipment stays approved beyond the validity date until it is revoked!

**Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.**

**Note 2: Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.**

**Note 3: 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-control phase module (D, E or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.**



xxxx/yy

**Note 4: "Wheelmark" Format**

YY Last two digits of year mark affixed.

XXXX Notified Body number undertaking surveillance module

## Technical data / approved drawings and additional conditions and remarks:

1.

This EC-Type Examination Certificate is based on the following documents:

- Test Report No. GH08/5901.1 issued by "Brandversuchshaus Hamburg", 22767 Hamburg (DE), on 08.04.2009.
- Supplement to the Test Report No. GH08/5901.1 of the "Brandversuchshaus Hamburg" (Dipl.- Ing. A. Pavlik) dated 04.06.2009.

2.

This EC-Type Examination Certificate provides that the assembly of the horizontal suspended B-15 division coincides in all items with the construction as described in number 4.2 and the enclosures no. 5 - 10 to the Test Report No. GH08/5901.1.

3.

All measurements of the horizontal B-15 division must be in accordance with the drawing numbers LM46-LWC-B15 (Rev. 0), LM46-LWC-B15-02 (Rev. 0), LM46-LWC-B15-03 (Rev. 0), LM46-LWC-B15-04 (Rev. 0), LM46-LWC-B15-05 (Rev. 0) and the description of the specimen (enclosures no. 5 - 10 to the Test Report No. GH08/5901.1). They can only be changed in compliance with the Prüf- und Zertifizierungsstelle of the Ship Safety Division.

4.

The width of the panels is max. 500 mm.

The construction of the ceiling (lengths + raster) is shown in drawing no. LM46-LWC-B15-02 (enclosure. 6 to the Test Report No. GH08/5901.1).

5.

As insulation material has to be used:

- Paroc Marine Slab 220 (density: 220 kg/m<sup>3</sup>, thickness: 15 mm)  
EC Type-Examination Certificate No. VTT-C-5817-15-10, issued by VTT Expert Service Ltd. and
- Icerock Ductwrap (thickness 50 mm)  
EC Type-Examination Certificate No. VTT-C-10644-15-14, issued by VTT Expert Service Ltd.

6.

Non combustible insulation material as per Test Report No. GH08/5901.1 may be replaced by a different one, provided that its composition and physical properties (e.g. heat conductivity, density and thickness of the material ) correspond with the tested material and an approval as per directive 96/98, as amended has been obtained.

This has to be proved to the Ship Safety Division beforehand in written form.

7.

Adhesive and surface materials which will be used must be not readily ignitable and approved by a European notified body.

8.

The equipment shall be marked in accordance with Article 11 of the Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended.

9.

This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 08.06.2009 with a running time up to 30.06.2014.

10.

This EC-Type Examination Certificate may only be published or transmitted unabridged.

**Note:**

This product has been assigned a U.S. Coast Guard approval no. (USCG number) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.

The U.S. Coast Guard approval number is:

**164.110/EC0736/102.333**

The equipment manufacturer has to be mark the equipment with this U.S. Coast Guard approval number.