



European notified body
Identification number 0736

EC-Type Examination (Module B) Certificate

Certificate No. **110.068**

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

Date of issue: **04.05.2015**

Annex A.1 Item No. & Item designation: **A.1/3.16 – Fire Doors**

Product designation: **Single leaf door type A-60 class**

Product Type: **Single Leaf Hinged Door LL-D3-A60-co1050**

Intended purpose: **"A" class door according to SOLAS 74/88 Reg. II-2/9, 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
IMO MSC.1/Circ. 1319**
**) = not applicable

Remarks: **see page 2 and page 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 2013/52/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: **03.05.2020**



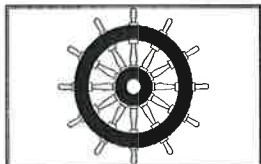
Signature (Bork)

The approval of the installed equipment will be in force 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. GV08/6241.1 issued by "Brandversuchshaus Hamburg", 22767 Hamburg (DE), on 22.10.2009.
- Assessment No. AS-10-02-Lethe(2) issued by "Brandversuchshaus Hamburg", 22767 Hamburg (DE), on 17.02.2010.
- Fire technical assessment No. 20643705 issued by "DMT GmbH & Co. KG", 44137 Dortmund (DE) on 02.04.2015.
- Letter of the company Lethe GmbH (Mr. M. Erdmann) dated 09.04.2015.

2.

This EC-Type Examination Certificate provides that the assembly of the single leaf hinged door with window, hose port and cable duct of type A-60 coincides in all items with the construction as described in number 4.2 and the enclosures no. 6 - 15 to the Test Report No. GV08/6241.1 and the enclosures no. 2.1 to 2.8 to the Fire technical assessment No. 20643705.

3.

All measurements of the single leaf hinged door with window, hose port and cable duct of type A-60 must be in accordance with the drawings and list of materials FT-LL-D3-A60_01_A (Rev.A), the drawing no. V6 1043 and the description of the construction (enclosures no. 6 - 15 to the Test Report No. GV08/6241.1) and the enclosures no. 2.1 to 2.8 to the Fire technical assessment No. 20643705.

They can only be changed in compliance with the Prüf- und Zertifizierungsstelle of Ship Safety Division.

4.

The maximum size of clear opening of the door is 1050 mm x 2100 mm (width x height).

5.

The total thickness of the door is approx. 51 mm.

6.

The glazing "Promaglas 60 Type 1" (thickness 25 mm) has to be used.
The maximum size of clear opening is 500 mm x 500 mm.

7.

The size of clear opening of the hose port is 200 mm x 200 mm.

8.

As insulation material has to be used:

- SeaRoxSL 440 resp. Rockwool Marine Slab 150 (density 150 kg/m³)
EC Type Examination Certificate No. MED-B-8714, issued by Det Norske Veritas
and
- Promatect-H (density 870 kg/m³)
EC-Type Examination Certificate No. 107.103, issued by Ship Safety Division.

9.

Non combustible insulation material as per Test Report No. GV08/6241.1 and Fire technical assessment No. 20643705 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 Ship Safety Division beforehand in written form.

10.

As adhesive "Promat-Kleber K84" has to be used.

11.

Surface materials which will be used must be not readily ignitable and approved by an European notified body.

Technical data / approved drawings and additional conditions and remarks:

12.
Seals which will be used for the door must be not readily ignitable and / or accepted by Ship Safety Division.
13.
Hinges, locks, latches, shoot bolts, handles etc. should comply with the IMO Resolution MSC.307(88)-
(FTP-Code 2010), Annex 1, Part 3, paragraph 2.3.2.2.
14.
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.
15.
This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 13.11.2014
with a running time up to 12.11.2019.
16.
This EC-Type Examination Certificate may only be published or transmitted unabridged.