

EC-Type Examination Certificate (Module B)



This is to certify that:

TÜV NORD Systems GmbH & Co.KG, notified by the Federal Maritime and Hydrographic Agency of Germany (BSH), did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the essential fire protection equipment requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the details of appraisal attached hereto.

Recognized acc. to 2014/90/EU
by the BSH
BSH-Reference No.:
0800511/4822/005



Certificate No. M17001

Applicant: Lethe GmbH
Seehafenstrasse 17
21079 Hamburg
Deutschland

Product Name: LM25-ID5-B15 – Double Leaf Inspection Door

Trade Name: -

Product Description: Fire door, Class B-15

Regulation Item: MED/ 3.16

Specified Standards SOLAS 74 as amended, Regulations II-2/9,
IMO Res. MSC.307 (88) - (2010 FTP Code)
IMO MSC.1/Circ.1319

Related Directive 2014/90/EU – in conjunction with 2017/306/EU

The attached annex (details of appraisal) is part of this certificate.


USCG Approval No.: 164.136/EC0045

Date of Issue: 2017-07-03

Expiry Date: 2022-07-03

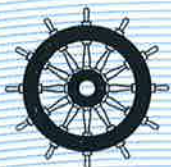
Tobias Nelke

Head of certification body SEECERT
(Notified Body No.: 0045)

The mark of conformity (wheelmark ) 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 II of the Directive is fully complied with and controlled by a written inspection agreement with a Notified Body.

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached annex (details of appraisal) are complied with. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the notified body SEECERT. Should the specified regulations or standards be amended during the period of validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on the market and on board vessels to which the amended regulations or standards apply.

An 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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment".



XXXX/(YY)YY

The marking of approved marine equipment must take place under Article 9, Article 10 and if applicable Article 11 in conjunction with Annex I of the Marine Equipment Directive 2014/90/EU. In addition to the marking, the identification number of the notified body performing the conformity assessment procedure and the year in which the conformity mark was affixed shall be indicated.

XXXX Number of the Notified Body responsible for quality surveillance module.
(YY)YY The year (last two or four digits) in which the mark is affixed.

DETAILS OF APPRAISAL

Appraisal Documentation:

Test report No.: DMT-DO-53-027, dated 15th of May 2017, issued by DMT GmbH & Co. KG, Germany
(TNS Ref.no.: MED3.20170406.090410-100)

Tests carried out:

Tested according to IMO 2010 FTP Code Annex 1: Part 3

Technical principles:

The "LM25-ID5-B15" inspection door (double leaf hinged door, equal sized) consists of a mineral wool core with density 150 kg/m³ encapsulated by 0.8mm thick steel sheets (two half-shells, screwed together), with a total thickness of 30 mm (each per leaf). The mineral wool core is glued to the steel sheets by an approved adhesive. A door handle (flush handle with hinged ring) is mounted in the active leaf opposite the hinge to activate via a 8 mm square bar a three point rod control (top side, lower side, lateral), which is located on the exposed side. On the back side of the door handle a steel sheet box (with openings to the latch and the rods only) is screwed to the leaf, sealed with "Promaseal PL". The central air gap between both door leaves is closed by a 0.8 mm thick steel sheet, riveted on the inactive leaf. The door leaves are connected by 1.0 mm thick stainless steel piano hinges to the door frame, which is screwed to the bulkhead. The U-shaped door frame, formed by 1.25 mm steel profiles, incorporates a circumferentially border for fixing a 2.5 mm thick gasket "Promaseal PL"; acc. to dwgs. 1.1, 1.2 & 1.3 attached to the test report, which includes further details.

Max. door clear opening [B x H]: 1400 mm x 2100 mm

Max. door leaf size [B x H]: 719 mm x 2142 mm

Insulation material:

"SeaRox SL 440", manufactured by Rockwool International A/S
(nominal thickness: 30 mm, nominal density 150 kg/m³)

Adhesive:

"Promat®-Kleber K84", manufactured by Promat GmbH

Door handle:

"KWS Baubeschläge - flush handle with hinged ring", manufactured by Woelm GmbH

Approval is valid on the results of tests carried out on the construction and materials mentioned herein as well as for installation in bulkhead "LM50-W1-B15" to form an integrated part of a fire retardant division of class B-15 (other bulkhead types or components may be approved case-by-case). The door leaves open away from the fire side. Any additionally used surface materials have to be certified according to the Marine Equipment Directive, if required by relevant rules and regulations.

The LM25-ID5-B15 – Inspection door has been successfully tested with extended test period in compliance with IMO MSC.1/ Circ. 1319.

Installation:

Assembly procedure on board as per manufacturer's instruction.

Marking:

The product shall be permanently marked in accordance with Article 10 of the Council Directive 2014/90/EC of 23rd of July 2014 on marine equipment, e.g. certificate (approval) number, fire rating, etc.

Remarks:

None

Limitations / Acceptance on use of the product:

See under "Technical principles"

Comment to USCG Approval:

Fire Doors