

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.: 0800S11/4822/005



Certificate No.: M21006

Manufacturer: Lethe GmbH
Seehafenstrasse 17
21079 Hamburg
Germany

Product Name: LM25-W7-B0,
LM25-W7.1-B0

Product Description: Division class B-0

Regulation Item: MED/ 3.11b - B class division

Specified Standards: SOLAS 74 as amended, Reg. II-2/3.4, Reg. II-2/9,
IMO Res. MSC.307 (88) - (2010 FTP Code) as amended
IMO MSC./ Circ.1120
IMO MSC.1/ Circ.1581

Related Directive 2014/90/EU – in conjunction with 2020/1170/EU


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

USCG Approval No.: 164.108/EC0045

Date of Issue: 2021-03-11

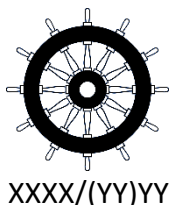
Expiry Date: 2026-03-11

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 is approved with a corresponding certificate of 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This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached annex (details of appraisal) are complied with.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".



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-53-143 dated 09.11.2020 issued by DMT GmbH & Co. KG, Germany,
DMT-DO-53-144 dated 09.11.2020 issued by DMT GmbH & Co. KG, Germany
(TNS Ref.No.: 8119003591)

Tests carried out:

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

Technical principles:

Wall:

The wall type "LM25-W7-B0" consists of panels 535 mm x 3190 mm x 25 mm (W x H x D), which are connected to one another via a tongue and groove system. The depth of the tongue and groove system is 26.75 mm.

Panels:

The panels are designed as sandwich elements and consist of 0.75 mm starting canted steel sheets with insulation between them. The insulation consists of up to 150 mm wide strips of the insulating material "SeaRox SL 440" (density 150 kg / m³, thickness: 23.5 mm). The connection of the two steel sheets with the insulation is done by using the adhesive "SikaForce®-141 CT18" with an application rate of 150g / mm². In the area of the groove, the two steel sheets of the sandwich panels are reinforced with a sheet steel profile (50 mm x 50 mm x 1.5 mm).

Insulating material:

"SeaRox SL 440"

Manufacturer: Rockwool International A / S

Thickness: 23.5mm

Density: 150 kg / m³

Adhesives / sealants:

"SikaForce®-141 CT18" (formerly: "SikaForce-7141 L18")

Manufacturer: Sika Germany GmbH

Application quantity: 150 g / m²

The wall type "LM25-W7.1-B0" is a variant of the wall type "LM25-W7-B0" and corresponds to it with the exception that essential components (e.g. cover sheets) are made of aluminum. For more details, see test report.

Approval is valid on the results of tests carried out on the construction and materials mentioned herein. Any additionally used surface materials have to be certified according to the Marine Equipment Directive, if required by relevant rules and regulations.

Installation and product documentation:

Assembly procedure on board as per manufacturer's instruction, which has to be supplied together with the product.

Marking:

The product/ package 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:

Class B-0 bulkhead panel