

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



BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE

Certificate No.: M17003

Applicant: Lethe GmbH
Seehafenstrasse 17
21079 Hamburg
Deutschland

Product Name: LM25-W1-B15

Trade Name: -

Product Description: Class B-15 bulkhead panels [thickness: 25 mm]

Regulation Item: MED/ 3.11b

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

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.: 164.108/EC0045

Date of Issue: 2017-07-03

Expiry Date: 2022-07-03

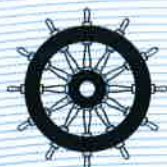
Tobias Nelke

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This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached annex (details of appraisal) are complied with.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

Fire technical assessment No.: 20671208-10 "LM25-W1-B15", dated 2017-06-09, issued by DMT GmbH & Co. KG, Germany
(TNS Ref.No.: MED3.20170428.142647)

Tests carried out:

Test according to IMO 2010 FTP Code Annex 1: Part 3 and Annex 2

Technical principles:

The B-15 class bulkhead panel "LM25-W1-B15" (thickness in total: 25 mm) consists of a 23.5 mm thick mineral wool core (nominal density: 150kg/m³) covered on both sides with 0.75 mm thick steel sheets. All components of this sandwich-construction are bonded to each other by means of adhesive of an approved type. The connection between the panels is made by a tongue and groove system (male/ female) with a depth of 27.5 mm. A U-shaped 0.75 mm thick steel profile (20 x 23.5 x 20)mm is integrated additionally inside the groove for reinforcement; acc. to dwgs. 1.1 - 1.5 attached to the fire technical assessment, which includes further details.

Maximum panel size: 535 mm x 2470 mm (Width x Height)

Insulation material:

"SeaRox SL 440", manufactured by Rockwool International A/S
(nominal thickness: 23.5 mm, nominal density 150 kg/m³)

Adhesive:

"Jowapur®683.24", manufactured by Jowat Swiss AG
(max. applied quantity: 200 g/m²)

Approval is valid on the results of the fire technical assessment and tests carried out on the materials and construction mentioned herein (other types or components may be approved case-by-case). Any additionally used surface materials have to be certified according to the Marine Equipment Directive, if required by relevant rules and regulations.

Installation:

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

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:

Class B-15 bulkhead