

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. M17002

Applicant: Lethe GmbH
Seehafenstrasse 17
21079 Hamburg
Deutschland

Product Name: LYD 3PLUS-A60 door with components

Trade Name: -

Product Description: Fire door, Class A-60

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 This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached annex (details of appraisal) are complied with.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-53-035 dated 12th of May 2017 issued by DMT GmbH & Co. KG, Germany
(TNS Ref.no.: MED3.20170406.090410-200)

Test Tests carried out:

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

Technical principles:

The "LYD 3PLUS_A60 with components" is a single-leaf hinged door with a rectangular window and a self-closing hose port. The door leaf with a max. clear opening (c/o) = 1050 x 2159 mm (W x H) consists of a 38 mm thick mineral wool core (density 150 kg/m³) covered on both sides with a 6 mm thick board "Promatec-H" and framed by three layers "Promatec-H" (WxH of each layer: 38x20 mm). All layers are glued together by an approved adhesive. A steel door handle is located at mid height opposite the hinges; with a cut out in the exposed board for the recess of the door handle (area is reinforced inside the leaf by eight layers of "Promatec-H"). An automatic door seal is installed in the lower side of the leaf, which is connected with the door frame by three stainless steel hinges (two located in the upper part, one in the lower part).

The door leaf (total thickness: 50 mm) may be equipped with following optional fittings:

- one horizontal cable duct of 26 x 20 mm (W x H), inside mid height,
- rectangular window "Promaglas 60 Typ1", max. c/o: 600 x 750 mm (W x H) in upper half, fixed by a both-sided stainless steel frame with silicon seals; door leaf area to be reinforced by two layers of "Promatec-H",
- self-closing hose port in the lower corner opposite the hinges, max. c/o 147 mm x 148 mm (W x H), with 2.5 mm thick "Promaseal-PL 2,5 K" around, air gap is protected on the exposed side by a 0.8 mm steel sheet; door leaf area to be reinforced by ten layers of "Promatec-H",
- door closer ("Dorma ITS 96") on upper side (upper frame area consists then of four layers "Promatec-H").

A mounting frame (L-shaped steel profile, 60 x 60 x 5 mm) is bolted with 34x M8 screws to an A-60 bulkhead, in addition a three-sided door frame, made from a 1,25 mm thick hollow steel profiles provided with a rebate groove supporting a silicon seal, is bolted by 17x M8 screws to the mounting frame accordingly. Further a lower sill made from a 2.0 mm thick steel hollow section, covered by a 1.5 mm U-shaped stainless steel profile relevant for the a.m. automatic door seal, is bolted also to the mounting frame by 3x M8 screws; acc. to dwgs. 1.1 - 1.5 attached to the test report, which includes further details.

Insulation material:

"SeaRox SL 440" (nominal thickness: 100 mm, nominal density 150 kg/m³), manufactured by Rockwool International A/S

Adhesive:

"Promat®-Kleber K84/A", manufactured by company Promat GmbH, Germany

Window:

"Promaglas 60 Typ1", manufactured by company Promat GmbH, Germany

Door handle:

"FSB 7670 1310 6204 fire doors", manufactured by company Franz Schneider Brakel GmbH & Co. KG, Germany

Lock:

"Einsteckschloss PZ, 72mm Re.65/9", manufactured by company S&B Beschläge GmbH, Germany

Hinges:

"Tectus TE 525 3D Stainless Steel", manufactured by company Simonswerk, Germany

Sealings:

"Silicon ADTP-195" (window), "Silicon ADSL-2642c" (door), both manufactured by company GfA Dichtungstechnik, Joachim Hagemeyer GmbH, Germany

Automatic door seal:

"Schall Ex 15/30", manufactured by company Athmer, Germany

Approval is valid on the results of tests carried out on the construction and materials mentioned herein as well as for installation in "Steel bulkhead A-60 with SeaRox SL620" to form an integrated part of a fire retardant division of class A-60 (other bulkhead types or components may be approved case-by-case), where the door is mounted to the unexposed side of the bulkhead (with stiffeners and insulation on exposed side). The door opens 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 "LYD 3PLUS_A60 with components" 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:

The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For other window dimensions, USCG shall be contacted.