DNV·GL

Certificate No:
**MEDB0000248**

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

**That the Fire Doors**

with type designation(s)
**LMD-VSF-2 Class A-60 Vertical Sliding Service Lift Door**

Issued to
**Podszuck GmbH**
**KIEL, Germany**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
**item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511**

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-09-06**.

Issued at **Hamburg** on **2017-09-07**

DNV GL local station:
**Hamburg**

Approval Engineer:
**Pavel Golyshev**

Notified Body
No.: **0098**

for **DNV GL SE**

**Sven Dudszus**
**Head of Notified Body**

A 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", signed February 27th, 2004.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.


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## Product description

"LMD-VSF-2 Class A-60 Vertical Sliding Service Lift Door"
Vertical sliding door consisting of door frame, upper and lower door leaves and various fittings.

The external size of the door leaves when closed is 1100 mm x 1420 mm (width x height), with:

- upper door leaf of 1100 mm x 785 mm (width x height) in external size
- lower door leaf of 1100 mm x 635 mm (width x height) in external size

Each door leaf is manufactured from 1.5 mm thick steel sheet, reinforced inside along the edges and insulated with two layers of 25 mm thick calcium silicate board type Silca SB 250 (nominal density 250 kg/m³), manufactured by Calsitherm GmbH, Germany.

Along the joint between the upper and lower door leaves, the 1.5 mm thick steel sheet is formed in U-shape with steel U-profile placed inside. In the created groove, Promatect H board (nominal density 870 kg/m³, manufactured by Promat GmbH, Germany) is inserted, covered by steel profile and fixed to the lower door leaf. Total size of Promatect H board is 34 mm x 35 mm x 1055 mm (height x depth x width)

The steel door frame consists of two parts, a 50 mm x 50 mm x 5 mm L-profile and a 70 mm x 70 mm x 3 mm RHS-profile. The L-profile is continuously welded to the steel bulkhead and the RHS profile is continuously welded with the L-profile. The combination of the RHS- and L- profiles forms a coaming around the periphery of the bulkhead opening.

The door leaves are operated through guiding rails, with steel wire cables fixed to the both door leaves and guided by means of two wheels installed at the top of the door installation frame. A single-point manual lock is installed at the bottom of the upper door leaf, arranged centrally. The lock casing is insulated on each side with 6 mm + 8 mm Promatect H board.

Total thickness of each door leaf: 53 mm.

For further details, see test report and drawing listed under Type Examination documentation below.

## Application/Limitation

Approved for use as service lift door of class A-60. The external side of the lift door coaming to be fire insulated to same standard as a bulkhead in which the service lift door is installed.

The door is mounted from the lift casing side of the bulkhead with exposed side to the corridor.

Clear opening size (as tested): 1000 mm x 1200 mm (width x height).
A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Each product is to be supplied with its manual for installation and maintenance.

## Type Examination documentation

Test report no. PGA11002A dated 10th of May 2017, issued by Danish Institute of Fire and Security Technology, Hvidovre, Denmark.
Drawing 17-1001 LMD-VSF2, A.

## Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code, Annex 1, Part 3.

The door has been successfully tested for extended test period of 68 minutes.

## Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire-technical rating, MED Mark of Conformity and USCG approval number if applicable (see first page).