DNV·GL

Certificate No:
**MEDB000056Z**

# 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)
**Class A-30 single leaf hinged fire door type "LMD-Poki-L (40)"**

Issued to
**Podszuck GmbH**
**Kiel, Schleswig-Holstein, Germany**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773,**
**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 **2024-07-04**.

Issued at **Hamburg** on **2019-07-05**

DNV GL local station:
**Hamburg**

Approval Engineer:
**Pavel Golyshev**

Notified Body
No.: **0098**

for **DNV GL SE**

**Gerhard Aulbert**
**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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Class A-30 single leaf hinged fire door type "LMD-Poki-L (40)"
Single leaf hinged fire door composed of door leaf and frame and various fittings.

The door leaf is made by:

- 2 mm thick surrounding steel U-profiles of specification 20 mm x 46 mm x 20 mm,
- 3 mm thick reinforcing steel U-profiles of specification 20 mm x 34 mm x 20 mm,
- door infill composed from 0.75 mm thick steel sheet + 40 mm thick Caretta sandwich construction insulation board consisting of inner insulation slab (Paroc Marine Slab with nominal density of 160 kg/m³) with "Neptune sheets" board (with density of 1250 kg/m³ and thickness of 2.5 mm) bonded to each side + 0.75 mm thick steel sheet.

The door leaf is provided with a locking system. The lock casing is insulated on both sides with Promatect H board (nominal density 870 kg/m³, manufactured by Promat GmbH, Germany). A protection cap is welded to the back side of the door frame covering the holes for the lock. Along the hinged side of the door leaf, at a middle height from the bottom edge, a Ø10 mm steel safety bolt is screwed into the door leaf (matching hole in the door frame is fitted with a protection cap welded from the backside of the frame).

The door leaf is connected to the door frame (made by 3 mm thick steel Z-profiles of specification 64 mm x 50 mm x 20 mm x 14 mm) by three steel hinges. The door was tested with the door frame fixed to the steel bulkhead with M8 x 20 mm bolts (with nut per approx. 275 mm along the vertical door frames and per approx. 275 mm along the top and the bottom door frame) and may be installed with door frame both bolted, tack- and fully welded to the bulkhead.

The door is sealed with a silicone rubber of type "ST-SC-80 coloured" (from MEDInagen GmbH). The insulation and sealing materials are fixed using approved adhesive.

The door construction may provide the following optional fittings and alternatives:

- alternative sill/frame types acc. to drawing no. P16-2620A;
- door may be fitted with a clamping frame for marine doors acc. to drawing P98-1101.

Total thickness of door leaf: 41.5 mm.

For further details, see test report with included drawings as well as drawings listed under Type Examination documentation below.

## Application/Limitation

The door is approved for installation in steel bulkheads of class A-30. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Maximum size of door leaf (as tested): 1107 mm x 2206 mm (width x height).
Maximum clear opening size (as tested): 1080 mm x 2180 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. 20160401 dated 29th of September 2016 issued by MPA Dresden (Fire Test Laboratory) Germany.

Drawings nos. P16-2620A dated 23rd of June 2016 and P98-1101 dated 10th of April 2018 from manufacturer.

## Tests carried out

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

The door has been successfully tested with extended test period for at least 36 minutes for insulation and 68 minutes for fire integrity in compliance with IMO MSC.1/Circ.1319.

## 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).

## USCG Approval Category (Module B) number

This product has been assigned a U.S. Coast Guard Module B number 164.136/EC0098 to note type approval to Module B only as it pertains to obtaining US Coast Guard approval 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.