

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)
A-60 single leaf sliding door type LMD-SL-S

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

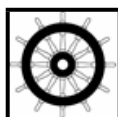
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-01-25**.

Issued at **Hamburg** on **2018-01-26**

DNV GL local station:
Hamburg

Approval Engineer:
Pavel Golyshev



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudsus
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

"A-60 single leaf sliding door type LMD-SL-S"

Principle components: door leaf insulated with (acc. to test report PG 11070):

- a) sandwich construction consisting of two layers of 20 mm thick mineral wool covered with 2.5 mm thick Lolamat board; total thickness: 46 mm or
 - b) Caretta sandwich construction consisting of two layers of 20 mm thick mineral wool covered with 2.5 mm thick Caretta laminate; total thickness: 46 mm
- and covered on both sides with 1.5 mm thick steel sheets; with exterior dimensions of 2410 mm x 2276 mm (width x height); with hose port constructed of 1.5 mm steel sheets and insulated with 46 mm thick Lolamat Board; acc. to the drwgs. nos.: P02-1512, P02-3112 and P02-1812-1.

The door construction may be provided with the following optional fittings and alternatives acc. to the assessment PH 12846:

- door may be fitted with different constructions and fixing methods for the labyrinths (screwed or welded), acc. to drwgs. nos.: P02-1512-PE-01, P02-1514, P02-1515-A and P02-1515-B.

Total thickness of each door leaf: 52 mm (excl. edge U-profile).

For further details, see test reports and assessment listed under Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Maximum clear opening size: 2310 mm x 2242 mm (width x height).

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 nos. PG 11070 dated 10th of October 2003 and PG11123 dated 17th of October 2003, assessment PH12846 dated 6th of July 2006 all issued by Danish Institute of Fire and Security Technology, Hvidovre, Denmark.

This certificate is based on the previous MED B certificate 47 275 - 12 HH.

Tests carried out

Tested according to IMO Res. MSC.61(67) – FTP Code, Annex 1, Part 3 and in compliance with IMO Res. MSC.307(88) – 2010 FTP Code, Clause 8.

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).