DNV·GL

Certificate No:
TAF00001BK

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A Door

with type designation(s)
A-60 single leaf sliding door type "LMD-SL-S"

Issued to
Podszuck GmbH
Kiel, Schleswig-Holstein, Germany

is found to comply with
DNV GL rules for classification – Ships
DNV GL offshore standards
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

Approved for use as an integrated part of fire retarding division of class A-60.

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Hamburg** on **2019-10-30**
This Certificate is valid until **2023-01-25**.
DNV GL local station: **Hamburg**

Approval Engineer: **Pavel Golyshev**

for **DNV GL**

Jörg Kallies
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-032495-1**
Certificate No: **TAF00001BK**

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 report and assessments 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).

Any surface materials used have to be approved for smoke and toxicity and low flame spread characteristics (IMO 2010 FTP Code parts 2 and 5 or IMO FTPC Parts 2 and 5 when in compliance with the 2010 FTP Code Ch. 5.2 and 8) when required according to relevant rules and regulations.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 or IMO FTPC Part 5 when in compliance with the 2010 FTP Code Ch. 5.2 and 8.

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

Type Approval documentation

Certification in accordance with Class Program DNVGL-CP-0338, September 2018.

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.

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 and fire technical rating.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Program DNVGL-CP-0338, Section 4.