DNV·GL

Certificate No:
TAF00001BH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A Door

with type designation(s)
Double leaf hinged fire door type "LMD - HD - NR"

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 **2019-11-04**
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: **TAF00001BH**

Product description

Double leaf hinged fire door type "LMD - HD - NR"
Principle components: active door leaf (1140 mm wide and 2148 mm high in exterior size) and standing door leaf (1145 mm wide and 2148 mm high in exterior size) each made of 1.0 mm steel sheets reinforced inside along the top edge, as well as along the vertical edges and the bottom edge, insulated with two layers of 25 mm thick calcium silicate board of Silca 250 SB type (density 250 kg/m³) between the flat steel and the steel sheet; with hose port (185 mm x 185 mm x 53 mm), according to the drawings nos. P02-1029, P02-2910-2, P98-1101 and P03-0210.

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

- alternative sill types acc. to drwg. no.: P02-1028;
- concealed door closer DORMA ITS96/EN 2-5 acc. to drwg. no.: P03-2706_01 or type "ITS 96-EMF" acc. to drwg. no.: P03-2706-01 Rev. B + C;
- door leaves and frame with round corners acc. to drwg. no.: P02-1029-1 round;
- door leaves and frame with round corners and top and bottom pawl lock acc. to drwg. no.: P02-1029 GT_DL 1 round (pawl locks require manually closing);
- the door may be considered as reasonably gastight if provided with a rubber sealing; accordingto the drawing nos. P02-1029-GT and P02-1029 GT-1 round.

Total thickness of each door leaf: 54 mm.

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: 2250 mm x 2100 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 no. PG 11106 dated 28th of January 2003 and assessments PH 12410E dated 3rd of March 2003, PH 12612b and PH12613b both dated 1st of November 2004 each 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

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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.