DNV·GL

Certificate No:
MEDB00002A9

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-H1 Class A-60 Single Leaf Hinged Fire Door
LMD-H1-G Class A-60 Single Leaf Hinged Fire Door with Glass

Issued to
Podszuck GmbH
KIEL, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559,**
Annex A.1, item No. A.1/3.16 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/and IMO 2010 FTP Code

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

This Certificate is valid until **2022-02-12**.

Issued at **Hamburg** on **2017-02-13**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-H1 Class A-60 Single Leaf Hinged Fire Door"
"LMD-H1-G Class A-60 Single Leaf Hinged Fire Door with Glass"
Door leaf made of 1.0 mm to 2.0 mm steel sheets (acc. to the assessment no. PH 12699a) reinforced inside along the edges with 50 mm x 5 mm flat steel and insulated with 48 mm thick sandwich construction; according to drwg. No. 1.0 of the test report PGA10600 and drw. No. P01-601A; alternative insulation may be consisting of calcium silicate boards and alternative sill type according to the drawing no.: P01-601D; alternative fixing according to the drawing no.: P03-0210.

The door may be fitted with:
- concealed door closer, type "ITS96/multigenius" according to the drawing no.: P01-602 I or type "ITS 96-EMF" acc. to drwg. no.: P01-602 I Rev. A
- hose port constructed as shown in the drawing no.: 60D008p03
- clamping frame for marine doors in according to the drawing no.: P98-1101
- rubber sealing acc. to drwg. no.: P01-601C (marking of indoors as "suitable gastight" and outdoors as "sprayweathertight");
- adjustable sealing frame acc. to the drwg. no. P01-601C_01

Alternative door with fireproof rectangular window, type LMD-H1-G: door leaf constructed as described above mounted with a window according to drawings nos: P14-601A and P05-601B.02. The external dimension of the "Contraflamm N2" glass pane is 430 mm x 630 mm x 27 mm (width x height x thickness)

Acc. to the assessment no. PH 12707 door may be fitted with:
- two or three additional closing devices (dog handles, acc. to the drawings P01-601C_DH2.DWG and P01-601C_DH3.DWG)
- optional third hinge

The door leaf thickness is 54-56 mm.

For further details, see the test report with drawings, as 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.

The insulation materials, and any surface materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Maximum clear opening size of door: 1250 mm x 2200 mm (width x height).
Maximum clear view size of window: 400 mm x 600 mm (width x height).

The door has been successfully tested with extended test period in compliance with IMO MSC.1/Circ.1319.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations related to watertightness, weathertightness, etc.).

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

Type Examination documentation

Test reports PGA10600 dated 27th of January 2015, PG10904 dated 11th of March 2002 and PG11590 dated 20th of March 2006; assessments PH 12546 dated 8th of March 2004, PH 12468 dated 6th of July 2003, PH 12699a dated 2nd of May 2005 and PH12707 dated 3rd of May 2005, all issued by Danish Institute of Fire and Security Technology, Hvidovre. Denmark.

Tests carried out

Tested according to IMO FTP Code Part 3 and IMO 2010 FTP Code Part 3 and in compliance with IMO 2010 FTP Code Ch.8.

Marking of product

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