EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00000YH

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment (MED) as amended by directive (EU) 2015/559. This Certificate is issued by DNV GL SE based on the notification of the German Federal Ministry of Transport, Building and Urban Development.

This is to certify:

That the Fire Doors
with type designation(s)
LMD-HS-R-G Class A-60 Single Leaf Hinged Fire Door
Issued to

Podszuck GmbH

Kiel, Germany

is found to comply with the requirements in the following Regulations/Standards:
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 **2019-03-31**.

Issued at **Hamburg** on **2016-08-12**

DNV GL local station:
Hamburg
Approval Engineer:
Pavel Golyshev

Notified Body
No.: **0098**

for **DNV GL SE**

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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 Council Directive 96/98/EC, as amended.
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.
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-HS-R-G" Class A-60 Single Leaf Hinged Fire Door. The door leaf consists of:

- Face sheet I: 1.50 – 2.00 mm thick steel sheet
- Insulating core of 2 x 25 mm calcium silicate boards Silca 200 manufactured by Calsitherm GmbH (nominal density 210 kg/m³)
- Face sheet II: 1.50 – 2.00 mm thick steel sheet

In addition a 50 x 6 mm calcium silicate board layer of Promatect H manufactured by Promat GmbH (nominal density 870 kg/m³) is fitted along the top, bottom and trailing edges. Layers of Promatect H boards are also fitted on the locks and on the handles (see drawing for more details). An adhesive Promat K84 of approved type was used to affix the insulation.
The door frame is made of Z-profile steel 54 x 50 x 30 x 4 mm welded to the bulkhead. The door frame is tack-welded to the steel structural bulkhead. Two pins which engage into the frame when the door leaf is in the closed position are fitted on the hinge side of the door leaf.
The door leaf is fitted with three point lock, central, near the bottom and near the top edge.
The door may be fitted with fireproof rectangular window consisting of an inner steel frame with Lolamat, Promotect-H insulation and intumescent strip, fireproof glazing assembly and steel retainer frame. Mounted at the centre of the upper half of the door leaf (installed at a distance of approximately 1150 mm from the top of the door leaf). The dimension of the glass panel is 480 mm x 680 mm x 27 mm (width x height x thickness).
Total thickness of door leaf: 54-55 mm.

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.
Tested size of clear opening: 1300 x 2800 mm (width x height). A door having this clear opening size has an overall size of 1452 x 2952 mm (width x height). The door has been successfully tested with extended test period in compliance with IMO MSC.1/Circ. 1319.
Maximum size of window clear opening: 400 mm x 600 mm (width x height).
The insulation materials and adhesives and gaskets 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. PGA10296 dated 5th of November 2013 issued by the Danish Institute of Fire and Security Technology (DBI), Hvidovre, Denmark.
(GL Ref. No. 13-113430)

Tests carried out

Tested according to IMO FTPC 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 of manufacturer, type designation, MED Mark of Conformity and USCG approval number if applicable.