EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007EN

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV 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)
Class B-15 single leaf hinged fire door type "LMD-HSL 1-B15"

Issued to
Podszuck GmbH
Kiel, **Germany**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319

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

This Certificate is valid until **2026-05-17**.

Issued at **Hamburg** on **2021-05-18**

DNV local station:
Hamburg – CMC North/East

Approval Engineer:
Pavel Golyshev

Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Roeder
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, and amended by Decision No 1/2018 dated February 18th, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

"Class B-15 single leaf hinged fire door type "LMD-HSL 1-B15"
Single leaf hinged fire door composed of door leaf and frame and various fittings.

The door leaf is manufactured from 0.88 mm thick steel sheets, reinforced inside along the top edge, the bottom edge and the vertical edges with 40 mm x 3 mm flat steel. In addition, 3 mm thick reinforcing profiles made by flat steel and of specification 205 mm x 40 mm are mounted along the positions of the three hinges, and of specification 400 mm x 40 mm is mounted along the edge inside the lock side of the door leaf on a level with the lock casing. The steel sheets of the door leaf are folded along the edges of the door leaf. The edges of the door leaf are covered with 2 mm thick U-profiles of specification 22 mm x 48 mm x 22 mm, welded together along all the corners as well as diagonally from the corners. Along the hinged side the edge profiles are additionally fixed to the door leaf edges by means of the screws for the hinges. Along the lock side the edge profile is additionally fixed to the door leaf edge with two pop-rivets.
The insulation inside the door leaf consists of two layers of 20 mm thick calcium silicate board type Silca 200 (nominal density 210 kg/m³, manufactured by Calsitherm GmbH, Germany) glued together as well as to the steel sheets with an adhesive of approved type at each layer. The door leaf is provided with a latch/bolt lock at the centre. The lock casing is insulated on both sides with 85 mm x 180 mm x 3 mm Promatect H board (nominal density 870 kg/m³, manufactured by Promat GmbH, Germany). A protection cap is welded to the back side of the door frame covering the holes for the latch/bolt lock. The door leaf is connected to the door frame (made by 3 mm thick steel Z-profiles of specification 50 mm x 54 mm x 23 mm) by three steel hinges.

The door construction may provide alternative sill/frame types acc. to drawings 20-1005-Z_CF.DWG Rev.A and 20-1005-GT_CF.DWG Rev.A.

The door frame shall be fixed to class B-15 bulkhead with steel screws c-c maximum 150 mm and using 1.5 mm thick steel counter-frames arranged along all edges. Specifications (dimensions) of the counter-frames shall ensure overlaps of minimum 50 mm and 20 mm between frame and bulkhead acc. to drawing no. 16-1005_CF.DWG Rev.B included in assessment PHD10013A.

Total thickness of door leaf: 48 mm.

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

Application/Limitation

The door is approved for use as an integrated part of fire retarding division of class B-15.

Maximum size of door leaf: 1213 mm x 2232 mm (width x height).
Maximum clear opening size: 1180 mm x 2200 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 no. PGA10970A dated 10th of February 2017 and assessment PHD10013A dated 16th of November 2020 both with included drawings and issued by Danish Institute of Fire and Security Technology, Hvidovre, Denmark.
Drawings 20-1005-Z_CF.DWG Rev.A and 20-1005-GT_CF.DWG Rev.A dated 18th of December 2020 from manufacturer.

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code, Annex 1, Part 3.

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).

USCG Approval Category (Module B) number

This product has been assigned a U.S. Coast Guard Module B number 164.136/EC0098 to note type approval to Module B only as it pertains to obtaining US Coast Guard approval 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 and amended by Decision No.1/2018 dated February 18th, 2019.