DNV·GL

Certificate No:
MEDB00005EM

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 "A" Class divisions, fire integrity

with type designation(s)
A-0 Roller shutter Type LMD-RS-A0

Issued to
Podszuck GmbH
Kiel, Schleswig-Holstein, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773,**
item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434

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

This Certificate is valid until **2024-09-04**.

Issued at **Hamburg** on **2019-09-05**

DNV GL local station:
Hamburg

Approval Engineer:
Pavel Golyshev

Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"A-0 Roller shutter Type LMD-RS-A0"
Roller shutter assembly for closure of a steel Class A-0 bulkhead is mounted on the bulkhead side not exposed to the fire hazard and is constructed and installed as per the manufacturer's drawings nos. PG 12300 Rev. A (sheets 01 – 03).

The roller shutter consists of a series of interlocking slats (overall size of each slat 100 mm high and 18 mm deep) formed from 1 mm thick steel sheet. The modular height of each slat is 80 mm. The lowest slat (bottom) is reinforced with a 2 mm thick steel U-profile of specification 25 mm x 60 mm x 25 mm. A steel L-profile 60 mm x 2 mm is mounted on the other side (exposed side) of this lowest slat.
The top of the roller shutter is fixed to three wheels (with spring mechanisms). The three wheels are mounted on a steel shaft which is supported in two shaft holders fixed to each side of the roller shutter top casing.
The enclosed top casing 353 mm x 353 mm and 2535 mm wide is constructed from 2 mm thick steel sheet and is mounted above the opening in the structural bulkhead.
Each of the two side guides is a combination of steel Z and L-profiles tack-welded together. The side guides are flared at the top thus directing the roller shutter from the shaft / wheels into the side guides.
The top casing and side guides are fixed to the bulkhead with M8 bolts spaced approx. 350 mm apart on the side of the bulkhead not exposed to the fire hazard. Stabiliser brackets arranged equi-distantly between the bolting locations for supporting the side guides may be bolted or welded to the bulkhead.

For further details please refer to the documentation listed under Type Examination documentation below.

Application/Limitation

The Class A-0 fire rolling fire shutter is approved for installation in steel bulkheads of Class A-0. Installation of the fire shutter in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Tested with the shutter box and guide rails facing the side unexposed to fire.

Maximum clear opening size: 2350 mm x 2050 mm (width x height).
The roller shutter assembly having this maximum clear opening size has an overall size of 2591 mm (including mounting flanges) in width and 2456 mm in height.

A roller shutter of marginally larger dimensions than a fire-tested may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319 Para 2.

The roller shutter shall be capable of being closed from both sides of the bulkhead.

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, use and maintenance.

Type Examination documentation

Test report no. PG12300 dated 25th of June 2013 issued by Danish Institute of Fire and Security Technology, Hvidovre, Denmark.
Drawings nos. PG 12300 Rev. A (sheets 01 – 03) dated 24th of June 2013.

This certificate is based on the previous MED Module B Certificate No. 61 119 - 13 HH.

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.

The roller shutter has been successfully tested with extended test period for at least 68 minutes for fire integrity in compliance with IMO MSC.1/Circ.1319.

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 164.107/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.