DNV·GL

Certificate No:
MEDB00004VW

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)
Jansen A-0 Rolling Fire Shutter (JA-0 RFS)

Issued to
Jansen Systembau GmbH & Co. KG
Surwold, Niedersachsen, 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 **2024-04-04**.

Issued at **Hamburg** on **2019-04-05**

DNV GL local station:
Bremerhaven

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Jansen A-0 Rolling Fire Shutter (JA-0 RFS)"

Roller shutter assembly for closure of Class A-0 bulkhead is composed of:

- structural support frame mounted around the top and sides of the bulkhead opening;
- vertical shutter guide channels (guide rails) made by 3 mm thick steel profiles and combined with steel angle profiles, the angle profiles are fixed to the steel support frame using M8 hexagon head screws with washer and nut;
- steel tubular roller enclosed with its bearings in steel casing mounted above the bulkhead;
- roller shutter leaf composed by no. 1.1530 and 1.1240 steel Braselmann-type blades. The roller shutter leaf is wound around the tubular roller and can be pulled upwards and stacked together above the bulkhead opening by means of drive unit.

All measurements of the roller fire shutter A-0 class must be in accordance with the drawing nos. A.01 up to A.12 (annex nos. 3 – 14 to the test report). For further details, see test report (with included drawings) listed under Type Examination documentation.

Maximum clear opening size as tested 7240 mm x 2500 mm (width x height). For the roller shutter with the width of 3600 mm and greater, additional support bracket is installed in the middle of the tubular roller.

The fire shutter may be also manufactured and distributed with the following modifications (for further details, see assessment with included drawings listed under Type Examination documentation):

- Maximum dimensions 4400 mm x 3200 mm (width x height);
- Modification of the sliding rail (Drawing no. BE 12 00 04 002), acc. to Annex no. 1 to Assessment no. AS-10-02-Jansen(1.3);
- Modification of the bottom (Drawing no. BE 12 00 04 003), acc. to Annex no. 3 to Assessment no. AS-10-02-Jansen(1.3);
- Installation of the bracket starting from 3600 mm width (Drawing no. BE 12 00 04 001), acc. to Annex no. 2 to Assessment no. AS-10-02-Jansen(1.3);
- The rolling shutter may be also manufactured of stainless steel sheet.

Insulating material (for bottom side):
"rex thermoglas fabric 660"

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 fire from the guide rails and bearing console side.

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. GV07/5736.1 dated 19th of April 2009, confirmation to the test report No. GV07/5736.1 dated 9th of May 2009 and Assessment No. AS-10-02-Jansen(1.3) dated 25th of October 2010 all issued by Brandversuchshaus Hamburg, Germany.

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, fire-technical rating, Mark of Conformity and USCG marking if applicable (see first page).