DNV·GL

Certificate No:
MEDB00002DK

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)
50- class A-0 bulkhead with roller shutter

Issued to
Jansen Systembau GmbH & Co. KG
Papenburg/Aschendorf, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
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 **2022-04-04**.

Issued at **Hamburg** on **2017-04-05**

DNV GL local station:
Leer

Approval Engineer:
Hiltraud Möhlmann

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Roller shutter assembly for closure of a steel Class A-0 bulkhead is mounted on the bulkhead side exposed to fire and is constructed and installed as per the Manufacturer's Inspection Report: Drawing No. BE 12 00 05 100 (17 sheets).

The main components of the roller shutter assembly are:
Steel casing constructed from 1.5 mm steel sheet mounted above the bulkhead opening which encloses a steel tubular roller and its bearings. The roller shutter is wound around the tubular roller. The casing and bearing supports are bolted to the steel bulkhead using M10 bolts.

Each of the two side guides is a combination of a steel rectangular hollow section 80 x 40 x 3 mm for fixing to the bulkhead with M8 bolts and a flanged L-shaped profile 80 x 58 mm formed from 3 mm thick steel sheet which acts as the guide for the roller shutter. The guides are flared at the top thus directing the roller shutter from the tubular roller into the side guides.

The roller shutter consists of a series of interlocking slats (overall size of each slat 83 mm high and 18 mm deep) formed from 1mm steel sheet. The contact and closure of the roller shutter on the deck is provided by a rubber gasket enclosed within a glass fabric lip seal.

Application/Limitation

Approved for use as a vertical fire retarding division of class A-0.

Maximum clear opening size: 3380 mm wide and 3240 mm high. A roller shutter assembly having this maximum clear opening size has an overall size of 3749 mm in width and 3755 mm in height. IMO MSC.1/Circ.1319 Para 2 may be applied for a roller shutter assembly of marginally larger dimensions.

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

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) and in compliance with IMO 2010 FTP Code Ch. 8.

Tests carried out

Test Report No. DMT-DO-53-011 dated 24th May 2013 by DMT GmbH & Co., KG – Fire testing laboratory, Dortmund, Germany. Manufacturer's inspection report: Drawing no. BE 12 00 05 100 (17 sheets)

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG approval number if applicable (see front page).