

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)

WDF-C26 Type Class A-15 Electric Fireproof Roll Shutter

Issued to

Wuxi Dongzhou Marine Equipment Co., Ltd
Wuxi 100, China

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

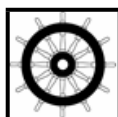
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-01-09**.

Issued at **Hamburg** on **2018-01-10**

DNV GL local station:
Jiangyin Station

Approval Engineer:
Roland Priebe



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-007696-1**
Certificate No: **MEDB00003JN**

Product description

“WDF-C26 Type Class A-15 Electric Fireproof Roll Shutter”

is a roller shutter with a clear opening size of 2300 mm wide x 2000 mm high. It is intended to be used as A-15 bulkhead closure and is operated electrically.

The fireproof roller shutter has a fixed frame at four sides made of 1,5 mm thick steel plates.

Each curtain blade is 2460 mm long, 141 mm high x 33 mm thick. It is composed of a 1 mm steel plate on the outer side and with two types of insulation inside:

Insulation	Thickness	Nominal density	Manufacturer
YB inorganic fireproof board	10 mm	1000 kg/m ³	Suzhou Youlian Marine Fitting Co., Ltd.
TG-II type ceramic wool	20 mm	170 kg/m ³	Yixing Yuanyang Ship Material Co., Ltd.

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

Application/Limitation

Approved for use as a vertical fire resistant class A-15 division.

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

Tests carried out

Tested according to IMO 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, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).