

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008JB

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 Fire dampers

with type designation(s)
Bulkhead Fire Dampers

Issued to

Jiangsu Hongyu Marine Equipment Limited Company
Taixing City, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2023/1667,
item No. MED/3.22. SOLAS 74 as amended, Regulation II-2/9 and IMO 2010 FTP Code

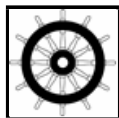
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-01-09**.

Issued at **Hamburg** on **2024-01-10**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Izabela Misztal



Notified Body
No.: **0098**

for **DNV GL SE**

Mydlak-Röder, Christine
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) 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. 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.

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. 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

“HYSF, HYDF and HYQF”

are single or multi-bladed, rectangular and circular fire dampers with a manual, electric or pneumatic actuation intended to use on bulkheads.

HYQF fire damper blades are formed by a layer of 2 mm and 3 mm thick steel plates filled with ceramic wool between them. HYDF and HYSF fire dampers blades are formed by two layers of 2 mm thick steel plates or stainless steel plate filled with ceramic wool between them.

Insulation of casing and blades core:

‘TG-II type ceramic wool’ produced by Yixing Ocean Ship Material Co. Ltd. of 170 kg/m³ density.

The fire dampers are fixed to the casing by means of the following steel bolts:

M12 x 50 mm: HYQF-1800 x 1800-B

M12 x 50 mm: HYQF-DN1800-B

M12 x 50 mm: HYDF-DN325-B

M12 x 50 mm: HYDF-1100 x 320-B

M12 x 50 mm: HYSF-1100 x 320-B

M12 x 50 mm: HYSF-DN325-B

For further details, see Type Examination documentation below.

Application/Limitation

The fire dampers are approved for installation in class A-30 and A-60 steel bulkheads. Other applications are subject to case-by-case approval.

Fire damper construction	Max. damper size (W x H) [mm]	Coaming thickness [mm]	Damper body wall thickness [mm]	Coaming length on unexposed side [mm]	Material	Max. number of blades	Blade max. size W x H x T [mm]	Application
rectangular	1800 x 1800	10	10	700	Q235-B	7	1756 x 264 x 35	A30
	1100 x 320	10	5	700	Q235-B	1	1056 x 314 x 24	A60
	1100 x 320	10	5	700	SS	1	1056 x 314 x 24	A60
circular	Ø325	10	5	700	SS	1	Ø 319 x 24	A60
	Ø1800	10	10	700	Q235-B	7	1750 x 270 x 30	A60
	Ø325	10	5	700	Q235-B	1	Ø 319 x 24	A60

Actuators to be used (*):

- Manual: DL-CII-4,
- Electric: BFL-230,
- Pneumatic: A-105SR.

(*) Actuators of same make but with different size as mentioned above may also be used, provided that they have sufficient torque, similar installation arrangement and equivalent fire technical and functional properties.

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

The fire damper is to be fitted with open/close indication and shall be easily accessible.

The insulation used is to be regarded as minimum insulations for all fire rating and is not to be removed if the fire damper is to be used in division with lower fire ratings.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test report no. FT22260 dated 14 November 2022 from FEFTC Far East Fire Testing Centre, Shanghai, China.

Test report no. FT22261 dated 01 January 2022 from FEFTC Far East Fire Testing Centre, Shanghai, China.

Test report no. FT22268 dated 05 January 2022 from FEFTC Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.



Job Id: **344.1-012848-1**
Certificate No: **MEDB00008JB**

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 first page).