EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00009C5

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the Fire dampers

with type designation(s)
Deck LFD type fire damper

issued to
Wozair Limited
Gillingham, Kent, United Kingdom

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
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 **2029-11-04**.

Issued at **Høvik** on **2024-11-05**

DNV local unit:
UK & Ireland CMC & VMC

Approval Engineer:
Marta Kropiwnicka

Notified Body
No.: **0575**

for **DNV AS**

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), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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

"Deck LFD type fire damper"
composed of single or multi-bladed rectangular fire damper with manual/automatic/pneumatic actuation. Damper blades made from 1.5 mm mild steel /stainless steel and damper casing made from min. 1.5 mm mild steel/stainless. The damper casing is 150 mm or 200 mm deep.

Coamings are covered with two layers of insulation.

Kerafix 2000 ceramic fibre tape is applied between the fire damper and spigot mating flange, both sides of bolt holes.

For further details, see Type Examination documentation below.

Application/Limitation

Approved for installation in A-class steel deck. Other applications are subject to case-by-case approval.

For fire dampers to be mounted in A-0 decks, no insulation of the coaming/duct is required, subject to case-by case approval.

The arrangement of the fire damper and necessary insulation of damper frame and ducting in the vicinity of the partition are subject to approval in each case.

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.

Fire Damper type	Damper size W x H [mm]	Coaming length on exposed side [mm]	Coaming length on unexposed side [mm]	Coaming thickness [mm]	Length of the second insulation layer on the exposed side [mm]	Length of the second insulation layer on the unexposed side [mm]	Maximum blade length [mm]	Maximum blade width [mm]	Max. number of blades
LFD*1)	100 x 100	250	1305	3	250	250	92	92	1
LFD*1)	1000 x 1000	250	1305	5	250	250	992	169	6

*1) Fire dampers covered with insulation SeaRox SL 620 type (density 100 kg/m^3, produced by Rockwool)

Pneumatic, electric or manual actuators that may be used:
- Belimo type BF, BFL and BFN. (*)
- Powertork PT series and corresponding Alpha products. (*)
- Schischek type ExMax, InMax and RedMax. (*)

(*) 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 deck.

Steel thickness of damper casing to be equal to or greater than thickness of duct/sleeve required by the rules if the damper casing is part of the duct/sleeve.

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

Type Examination documentation

Test report No. WF 537451/R dated 1 May 2024 from Warringtonfire, Warrington, UK.

Drawing No. 870.2357 dated 4 May 2018 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation and fire technical rating.