



Certificate No:
TAF00001TB

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fire Damper

with type designation(s)
Deck Fire Dampers CDFH and CQFHD

Issued to
Jiangsu Josun Air Conditioner Co., Ltd.
TAIXING, JIANGSU, China

is found to comply with
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021
DNV rules for classification – Ships
DNV offshore standards

Application :

The fire damper is approved for installation in steel decks. Other applications are subject to case-by-case approval.

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2023-07-03**

This Certificate is valid until **2028-07-02**.

for **DNV**

DNV local unit: **Jiangyin NB & CMC**

Approval Engineer: **Izabela Misztal**

Jowita Permoda
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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

“CDFH and CQFHD”

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

The fire damper blades are formed by one layer of 3 mm thick steel plate and one layer of 2 mm thick steel plate, filled with ceramic wool between them.

Insulation of casing and blades core:

‘TG-2 type ceramic wool’ produced by Changzhou Thermal Insulation Material Factory Co. Ltd. of 170 kg/m³ density.

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

M8 x 40 mm: CDFH 600 x 320-J,

M10 x 55 mm: CDFH-DN 320-J,

M16 x 60 mm: CQFHD 1600 x 1600-J,

M20 x 65 mm: CQFHD-DN 1600-J.

For further details, see Type Examination documentation below.

Application/Limitation

The fire dampers are approved for installation in steel decks. Other applications are subject to case-by-case approval.

Fire Damper type	Max. damper size W x H [mm]	Steel blade shape	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
CDFH	600 x 320	rectangular	8	8	650	Q235-B	1	595 x 314 x 32	A60
CDFH-DN	Ø320	round	10	10	650	Q235-B	1	Ø312 x 32	A60
CQFHD	1600 x 1600	rectangular	10	10	650	Q235-B	14	770 x 226 x 32	A60
CQFHD-DN	Ø1600	round	10	10	650	Q235-B	7	1564 x 226 x 32	A60

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.

The fire dampers may be operated by actuators of the following types (*):

- Pneumatic actuators:
 - o Type: “SR-160” and “SR-125”,
- Electric actuator:
 - o Type: “BF230”.

(*) 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 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.

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

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

Type Approval documentation

Certification in accordance with Class Program DNV-CP-0338, September 2021.

Test report No. FT22207 dated 01 November 2022 all from FEFTC Far East Fire Testing Centre, Shanghai, China.

Test report No. FT22202 dated 01 November 2022 all from FEFTC Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.



Job Id: **262.1-039486-1**
Certificate No: **TAF00001TB**

Marking of product

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

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Program DNV-CP-0338, Section 4.