



TYPE APPROVAL CERTIFICATE

Certificate No:
TAF00000H9
Revision No:
1

This is to certify:

That the Fire Damper

with type designation(s)
A-60 Marine Fire Damper

Issued to

Swegon Air Management Limited
Bridgnorth, Shropshire, United Kingdom

is found to comply with

DNV offshore standards

DNV rules for classification – Ships

DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021

Application :

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

This certificate is recognized by Transport Canada.

Issued at **Høvik** on **2022-07-13**

for **DNV**

This Certificate is valid until **2027-07-12**.

DNV local station: **England & Wales FiS**

Approval Engineer: **Marcin Tobiasz**

Helene David-Andersen
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.



Form code: TA 251

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Product description

"A-60 Marine Fire Damper"

Single or multi blade fire dampers consisting of casing in min. thickness 1.2 mm, manufactured from either zinc carbon steel, or 316 grade stainless steel. The damper casing is 150 mm or 210 mm deep and bolted to minimum 700 mm (unexposed side) and 300 mm (exposed side) long coaming, by means of M10x25 bolts spaced 150 mm apart. Coaming is welded to the bulkhead/deck.

Blades are composed from 0.5 mm thick stainless steel of 430 or 316 grade, formed to double skin a hollow profile of 12.7 mm thickness.

Two fire dampers of 1000 mm x1000 mm size can be joined together with two 2 mm thick channels in vertical or horizontal configuration.

Fire dampers are manufactured by Swegon Air Management Ltd., Whitstable, Kent, UK.

Application/Limitation

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

Max. size of multiblade damper: 1000 mm x 1000 mm (WxH)

Max. size of double damper arrangement: 2080 mm x1000 mm or 1000 mm x 2080 mm (WxH)

Max. number of blades in multiblade damper: 13

Max. size of blades: 1000 mm x 81.5 mm (WxH)

For use in bulkheads and decks with the following spring return, fail safe close actuators and associated thermal release mechanism.

- Actionair Universal actuator (230v, 120v, 24v options)
- Actionair Compact actuator (230v, 120v, 24v options)
- Festo DFPB 20 S F05 Pneumatic actuator
- Hytork XL071 or Hytork XL026 Pneumatic actuator
- Schischek 5.10Nm BF (BF-A-45.9Lb) or 15Nm BF (BF-A-135Lb) ExMax, RedMax, InMax, VAS, CTS, BF1

(*) Actuators of same brand 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/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.

The coaming/casing is insulated with 50 mm thick Rockwool SeaRox SL620 (nominal density 100 kg/m³) mineral wool on unexposed and exposed side of deck and two layers 50 mm + 30 mm thick Rockwool SeaRox SL620 (nominal density: 100 kg/m³) mineral wool on unexposed and exposed side of bulkhead. For details please see table below.

Damper size (W x H)	Insulation length on sleeves for fire dampers in bulkheads		Insulation length on sleeves for fire dampers in decks		Fire rating
	Exposed side	Unexposed side	Exposed side	Unexposed side	
100 x 100 mm	450 mm	250 mm	450 mm	550 mm	A-60
400 x 400 mm	450 mm	550 mm	450 mm	550 mm	A-60
1000 x 1000 mm	450 mm	850 mm	450 mm	850 mm	A-60
2080 x 1000 mm	450 mm	850 mm	450 mm	850 mm	A-60
1000 x 2080 mm	450 mm	850 mm	450 mm	850 mm	A-60

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 Approval documentation

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

Test reports No.

2015CS013908-1 A dated 6 September 2016, from from Fire Protection Research Laboratory (Rina), Genova, Italy.
2015CS013908-2 A dated 6 September 2016, from from Fire Protection Research Laboratory (Rina), Genova, Italy.
2015CS013908-3 A dated 6 September 2016, from from Fire Protection Research Laboratory (Rina), Genova, Italy.
2015CS013908-4 A dated 6 September 2016, from from Fire Protection Research Laboratory (Rina), Genova, Italy.

Drawings No.

PTC-041J rev.3 dated 2 March 2004, AA/F11724 rev.B dated 21 April 2016 and MAR101 rev.2 dated 2 March 2011 all from the manufacturer.

Operating manuals No.

LNNN00300 rev.5, LNNN00314 rev.4, LNNN00315 rev.4 and LNNN00373 rev.4 all dated April 2016 and all from the 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.

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 products listed in this certificate 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 Programme DNV-CP-0338, Section 4.