

SWEGON AIR MANAGEMENT LIMITED

JOSEPH WILSON INDUSTRIAL ESTATE

SOUTH STREET

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Tier: 2 - PDA Issued

Product: Fire Damper
Model: A-60 Marine Fire Damper
Endorsements:

Intended Service:

Fire Dampers for Ventilation ducting which penetrates "A" Class divisions as indicated in Ratings suitable for A-0, A-15, A-30 & A-60 for marine and offshore installations

Description:

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. 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 x 1000 mm size can be joined together with two 2 mm thick channels in vertical or horizontal configuration.

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. 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.

See attachment for further details.

Rating:

1) Bulkhead (Vertical) Orientation A-60 Marine Fire Damper; Maximum single damper dimension - 1000 x 1000 mm; For Multiple Damper configurations the maximum dimension - 2080 x 1000 mm or 1000mm x 2080 mm (made up as 2 off 1000 x 1000 mm Fire Dampers joined with central joining strips giving an additional 80 mm Centre join)
2) Deck (Horizontal) Orientation A-60 Marine Fire Damper; Maximum single damper dimension - 1000 x 1000 mm; For Multiple Damper configurations the maximum dimension - 2080 x 1000 mm or 1000mm x 2080mm (made up as 2 off 1000 x 1000 mm Fire Dampers joined with central joining strips giving an additional 80 mm Centre join).
3) For use in Bulkheads (Vertical) and Deck (Horizontal) Orientation with following actuators with spring return; Actionair Universal actuator (230v, 120v 24v options), Actionair Compact actuator version 1 and version 2 (230v, 120v 24v options), Festo DFPB 20 S F05 Pneumatic actuator, Hytork XL071 or Hytork XL026 Pneumatic actuator and Schischek 5.10Nm (BFA 45.9Lb) or 15Nm (BFA 135Lb) with options - ExMax, RedMax, InMax, VAS, CTS, BF1

Service Restriction:

1) Dampers manufactured from materials other than those described are not covered by this Product Design Assessment.
2) Minimum insulation lengths should be in accordance with the attached marine damper certificate details.
3) A-60 Marine Fire Dampers coaming thickness is to be in accordance with SOLAS (2020 Consolidated Edition) Regulations II-2/9.7.2. and II-2/9.7.3
4) The fire damper is to operate automatically, but is also to be capable of being closed manually from both sides of the bulkhead or deck. The damper is to be provided with an indicator which shows whether the damper is open or closed. Details of manual operation and indicator device are to be submitted for each application.
5) This Type Approval is not to be considered a substitute for a Flag Administration's approval for the purpose of SOLAS (2020 Consolidated Edition) unless specifically directed by the Administration.
6) Hazardous area application is not covered under this Assessment. When components required for Hazardous area

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is supplied, details of components are to be submitted to the local office for review in each case.

7) Unit certification is not required for this product . If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

- 1) Only Actuators & mounting accessories as indicated are acceptable.
- 2) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

- 1) Drawing No. MAR151, G.A of Rectangular Damper, Revision: 11
- 2) Drawing No. MAR161, Materials of Rectangular, Revision: 9
- 3) Drawing Number MAR171, Multiple Configuration for A-60 Fire Dampers, Revision 2
- 4) Fire Protection Research Laboratory Test Report 2015CS013908/1, 2015CS013908/2, 2015CS013908/3 and 2015CS013908/4 dated 9 Jun 2016
- 5) Test Summary Document, Ruskin Actionair Marine Damper Test Summary Document, Rev -

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 08/Oct/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS**ABS Rules:**

2023 ABS Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-7-2/3.7.1
2023 ABS Mobile Offshore Unit Rules, 1-1-4/9.7, 1-1-A2, 1-1-A3, 5-1-1/3.7, 5-1-1/5.27
2023 ABS Facilities on Offshore Installations Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 3-8/9.15, 4-8/9.15

National:

NA

International:

SOLAS (2020 Consolidated Edition), Regulations II-2/ 9.7.1.2.1, 9.7.3.1.3
International Code for Application of Fire Test Procedure 2010 (2010 FTP Code) , 2012 Edition, Annex 1 Part 3,

Government:

NA

EUMED:

NA

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OTHERS:

NA