

**Attachment to PDA 23-2452180-PDA**

SWEGON AIR MANAGEMENT LIMITED

Fire Damper

Model: A-60 Marine Fire Damper

Issue Date: 09 October 2023

Expiry Date : 08 October 2028

**Marine damper certificate details****Approval / test documentation:**

Fire Protection Research Laboratory (RINA) Genoa. Italy.

2015CS013908-1 A dated 9/6/2016

2015CS013908-2 A dated 9/6/2016

2015CS013908-3 A dated 9/6/2016

2015CS013908-4 A dated 9/6/2016

**Conditions**

1. The fire damper is suitable for applications in A-0, A-15, A-30 & A-60 Class divisions with ducting suitably insulated. Table below shows minimum total duct insulation lengths, which maybe interpolated for intermediate sizes based on internal cross-sectional area of duct.

Damper size	100x100mm	400x400mm	1000x1000mm	2080 mm wide x 1000 mm high (Two rectangular dampers each 1000 m Joined by a mullion and with single duct/coaming)
Bulkhead	750 mm	750 mm	1150 mm	1150 mm
Deck	750 mm	1050 mm	1350 mm	1350 mm

2. Mono or multi blade fire dampers consisting of a 0.9mm thickness inner casing, and a fully welded outer casing in thickness options of 1.2mm, 2mm or 3mm, manufactured from either zinc carbon steel, or 316 grade stainless steel. The damper casing is 150mm or 210mm deep. Blades are composed from 0.5mm thickness 430, or 316 grade stainless steel, formed to double skin hollow profile of 12.7mm thickness.
3. Minimum permissible clear opening of single fire damper; 100mmx 100mm
4. Maximum permissible clear opening of single fire damper; 1000mmx 1000mm
5. Maximum permissible clear opening of multiple fire damper; 2080mmx 1000mm or 1000mmx 2080mm
6. For use in bulkheads and decks with the following spring return, fail safe close actuators and associated thermal release mechanism.
  - a. Actionair Universal actuator (230v, 120v 24v options)

- b. Actionair Compact actuator, Version 1 (230v, 120v 24v options)
- c. Actionair Compact actuator, Version 2 (230v, 120v 24v options)
- d. Festo DFPB 20 S F05 Pneumatic actuator
- e. Hytork XL071 or Hytork XL026 Pneumatic actuator
- f. Schischek 5.10Nm BF (45.9Lb) or 15Nm BF (135Lb)
  - i. Options - ExMax, RedMax, InMax, VAS, CTS, BF1