

Certificate of Product Approval

Certificate Number: 017a

Issue: 18

SWEGON AIR MANAGEMENT LIMITED

Joseph Wilson Industrial Estate
South Street
Whitstable
Kent
CT5 3DU
United Kingdom

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) as detailed below:

Products

Fire Dampers
Fire Shield
Smoke Shield PTC
CSS Circular Smoke Shield

Standards

LPS 1162: Issue 4.1
Requirements and Tests for the LPCB Approval and Listing of Fire Dampers.

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Damien Ward

Signed for LPCB

Damien Ward
Certification Scheme Manager

03 February 2017
Date of Issue

21 October 2011
Date of First Issue



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Appendix to Certificate No: 017a SWEGON AIR MANAGEMENT LIMITED

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Product Name Series	Model/ Installation Frame	Maximum Duct Size			Approved Installation/ Construction Reference	BS EN 1366-2 Fire Performance (min) Integrity / Insulation / Leakage	LPS 1162 Class (Note 1)	LPCB Ref. No.
		Width mm	Height mm	Diameter mm				
Fire Shield	I/F damper horizontally mounted	1205	1000	-	Concrete Floor. Ref – AA/F10701	240 / 0 / 0	Standard	017a/01
Fire Shield	I/F damper vertically mounted	1250	1000	-	Masonry/concrete Wall. Ref – AA/F10703	240 / 0 / 0	Standard	017a/01
Fire Shield	I/F damper vertically mounted	1250	1000	-	Masonry/concrete Wall. Ref – AA/F10703	120 / 0 / 0	Standard	017a/01
Fire Shield	DWFX-F damper vertically mounted	1250	1000	-	Drywall Partition. Ref – AA/F10705 Mounted (see note 3)	120 / 0 / 0	Standard	017a/01
Fire Shield	+ Flange damper vertically mounted	1250	1000	-	Masonry/concrete Wall. Ref – AA/F10707R EV2	120 / 0 / 0	Standard	017a/01
Fire Shield	DWFX-C damper vertically mounted	1250	1000	-	Drywall Partition. Ref – AA/F10709 (see note 4)	120 / 0 / 0	Standard	017a/01
Fire Shield	S&A damper	1250	1000	-	Drywall	120 / 0 / 0	Standard	017a/01

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		Width mm	Height mm	Diameter mm				
	vertically mounted				Partition. Ref – AA/F10711 (See notes 5 and 6)			
Fire Shield	S&A damper vertically mounted	1250	1000	-	Masonry/concrete Wall. Ref – AA/F10713 (see note 6)	120 / 0 / 0	Standard	017a/01
Fire Shield	S&A damper vertically mounted	1250	1000	-	Drywall Partition. Ref – AA/F10715 (see note 7)	120 / 0 / 0	Standard	017a/01
Fire Shield	DWFX-C damper vertically mounted	1250	1000	-	Drywall Partition. Ref – AA/F10709 (see note 4)	120 / 0 / 0	Standard	017a/01
Fire Shield	S&A damper vertically mounted	1250	1000	-	Masonry/Concrete wall. Ref – AA/F10717	120 / 0 / 0	Standard	017a/01
Smoke Shield PTC	I/F damper horizontally mounted	1000	1000	-	Concrete Floor. Ref – AA/F10700	240 / 0 / 120	Standard	017a/04

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		Width mm	Height mm	Diameter mm				
Smoke Shield PTC	I/F damper vertically mounted	1000	1000	-	Masonry/ concrete wall. Ref – AA/F10702	240 / 0 / 120	Standard	017a/04
Smoke Shield PTC	I/F damper vertically mounted	1000	1000	-	Masonry/ concrete wall. Ref – AA/F10702	120 / 0 / 120	Standard	017a/04
Smoke Shield PTC	DWFX-F damper vertically mounted	1000	1000	-	Drywall Partition. Ref – AA/F10704 (See notes 3)	120 / 0 / 120	Standard	017a/04
Smoke Shield PTC	+ Flange damper vertically mounted	1000	1000	-	Masonry/ concrete Wall. Ref – AA/F10706R EV 2	120 / 0 / 120	Standard	017a/04
Smoke Shield PTC	DWFX-C damper vertically mounted	1000	1000	-	Drywall Partition. Ref – AA/F10708 (see note 4)	120 / 0 / 120	Standard	017a/04
Smoke Shield PTC	S&A damper vertically mounted	1000	1000	-	Drywall Partition. Ref –	120 / 0 / 120	Standard	017a/04

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		Width mm	Height mm	Diameter mm				
					AA/F10710 (see note 5 and 6)			
Smoke Shield PTC	S&A damper vertically mounted	1000	1000	-	Masonry/ concrete wall. Ref – AA/F10712 (See notes 6)	120 / 0 / 120	Standard	017a/04
Smoke Shield PTC	S&A damper vertically mounted	1000	1000	-	Drywall Partition. Ref – AA/F10714 (see note 7)	120 / 0 / 120	Standard	017a/04
Smoke Shield PTC	S&A damper vertically mounted	1000	1000	-	Masonry/ concrete wall. Ref – AA/F10716	120 / 0 / 120	Standard	017a/04
CSS Circular Smoke Shield	Damper horizontally mounted	-	-	355	Concrete Floor. Ref – AA/F10719	120 / 0 / 120	Standard	017a/05
CSS Circular Smoke Shield	Damper vertically installed	-	-	355	Drywall Partition. Ref – AA/F10718 (See notes 8)	120 / 0 / 120	Standard	017a/05
CSS Circular	Damper vertically	-	-	355	Masonry/con	120 / 0 /	Standard	017a/05

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		Width mm	Height mm	Diameter mm				
Smoke Shield	installed				crete Wall. Ref – AA/F10720	120		
CSS Circular Smoke Shield	Damper vertically installed	-	-	355	Drywall Partition. Ref – AA/F10721 (see note 9 and 10)	120 / 0 / 120	Standard	017a/05
CSS Circular Smoke Shield	Damper vertically installed	-	-	355	Masonry/ concrete Wall. Ref – AA/F10720	120 / 0 / 120	Standard	017a/05

Notes:

1. See LPS1162 Issue 4, Table 1.
2. LPCB ref 017a/01 and 017a/04 damper casing and blades are manufactured from Stainless steel with the casing manufactured from galvanised steel.
LPCB ref 017a/05 damper casing and blades are manufactured from galvanised steel.
3. The partition comprised a steel framework of steel studs insulated with a layer of Rockwool RW5 (minimum density 100kg/m³) insulation slab and clad on each face with two layers of 12.5mm-thick Type F plasterboard. With the aperture framed using stud and track with the web of the section set flush with the cut edges of the board, the framed aperture was then lined with one layer of 12.5mm-thick Type F plasterboard. The gap between the perimeter of the damper casing and the sides of the aperture should be no greater than 15mm wide along the top, bottom and non drive side, 40mm

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along the drive side. The gap is packed with Rockwool RW5 stone mineral wool and covered with a Type F plasterboard pattress overlapping the edge of the partition by minimum 65mm.

4. The partition comprised a steel framework of steel studs insulated with a layer of Rockwool RS33 (minimum density 33kg/m³) insulation slab and clad on each face with two layers of 12.5mm-thick Type F plasterboard. With the aperture framed using stud and track with the web of the section set flush with the cut edges of the board, the framed aperture was then lined with one layer of 12.5mm-thick Type F plasterboard. The gap between the vertical sides of the damper casing and the sides of the aperture should be no greater than 50mm wide. The gap is packed with stone mineral wool (minimum density 33kg/m³) the top and bottom of the damper casing fits flush with the aperture and is sealed with a bead of intumescent mastic to each side. A Type F plasterboard pattress overlapping the edge of the partition by minimum 75mm is then fixed to both sides of the partition.
5. The partition comprised a steel framework of steel studs insulated with a layer of Rockwool RW3 (minimum density 60kg/m³) insulation slab and clad on each face with two layers of 12.5mm-thick Type F plasterboard. With the aperture framed using stud and track with the web of the section set flush with the cut edges of the board, the framed aperture was then lined with two layers of 12.5mm-thick Type F plasterboard.
6. The Ablative Coated Batt is constructed by fitting the batt in the aperture with the longest edges orientated horizontally. The batts are glued into the opening and to each other using FirePro glue. The interface between the batts and the supporting construction is sealed with a 15mm bead of acoustic intumescent sealant. Following installation of the batts, a coat of Rockwool Ablative coating is applied over both sides of the completed seal. The batts should be cut to size so that they fit against the damper casing on all four sides and they rest against the flange which is tack welded to one face of the damper casing. A 20mm-thick pattress of Rockwool Ablative Coated batt is fitted around the damper on the opposite face to the flange, prior to a steel installation angle being riveted to the duct.
7. The partition comprised a steel framework of steel studs insulated with a layer of Rockwool RW5 (minimum density 100kg/m³) insulation slab and clad on each face with two layers of 12.5mm-thick Type F plasterboard. With the aperture framed using stud and track with the web of the section set flush with the cut edges of the board, the framed aperture was then lined with one layer of 12.5mm-thick Type F plasterboard. Stone mineral wool (60 – 100kg/m³) is fitted around the damper on the opposite face to the flange, prior to a steel installation angle being riveted to the duct.
8. The partition comprised a steel framework of steel studs insulated with a layer of Stone mineral wool (minimum density 38kg/m³) insulation slab and clad on each face with two layers of 12.5mm-thick Type F plasterboard. With the aperture framed using stud and track with the web of the section set flush with the cut edges of the board, the framed aperture was then lined with one layer of 12.5mm-thick Type F plasterboard.

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9. The partition comprised a steel framework of steel studs insulated with a layer of Stone mineral wool (minimum density 100kg/m³) insulation slab and clad on each face with two layers of 12.5mm-thick Type F plasterboard. With the aperture framed using stud and track with the web of the section set flush with the cut edges of the board, the framed aperture was then lined with two layers of 12.5mm-thick Type F plasterboard.
10. The Ablative Coated Batt is constructed by fitting the batt in the aperture with the longest edges orientated horizontally. The batts are glued into the opening and to each other using FirePro glue. The interface between the batts and the supporting construction is sealed with a 15mm bead of acoustic intumescent sealant. Following installation of the batts, a coat of Rockwool Ablative coating is applied over both sides of the completed seal.

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