SmokeShield V2 PTC Fire Damper
Declaration of Performance (DoP)

Complying with EU Regulation 305/2011 Construction Product Regulation

Product	Fire Damper
Intended Use	Fire Damper (actuated), to be used in conjunction with fire separating elements to maintain compartment integrity in heating ventilation and air-conditioning (HEVAC) system.
Manufacture	Swegon Air Management Ltd, South Street, Whitstable, Kent CT5 3DU
System of AVCP	System 1
Harmonised Standard	EN 15650:2010
Notified Body	Applus+ NB 0370 Performed the determination of the product type on the basis of type testing and the initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory control under system 1.
Certificate number	0370-CPR-6281
Test Standard	EN 1366-2:2015
Classification Standard	EN 13501-3:2005+A1:2009
Extended Field of Application Standard	EN 15882-2:2015

Essential Characteristic	Requirement Clauses	Performance
Nominal activation condition sensitivity *-Sensing element load bearing capacity* *-Sensing element response temperature*	4.2.1.2 4.2.1.2.2 4.2.1.2.3	NPD
Response delay (response time) *-Closure time*	4.2.2.2	Pass
Operational reliability *-Cycling*	4.3.1, a)	50 Cycles
Fire Resistance:	4.1.1 a), 4.4.1	Up to E120(ve ho i↔o)S Specific details below
Integrity	4.1.1 a)	Up to E120(ve ho i↔o)S Specific details below
Insulation	4.1.1 b)	NPD
Smoke Leakage	4.1.1 c)	Up to E120(ve ho i↔o)S Specific details below
Mechanical Stability (under E)	4.1.1 a)	Up to E120(ve ho i↔o)S Specific details below
Maintenance of the cross section (under E)	4.1.1 a)	Up to E120(ve ho i↔o)S Specific details below
Durability of response delay: *-Sensing element response to temperature and load bearing capacity*	4.2.1.2.2 & 4.2.1.2.3	Pass
Durability of operational reliability: *-Open and closing cycle*	4.3.3.2	20,000 Cycles
Damper casing leakage according to BS EN 1751		Class C
Damper blade leakage according to BS EN 1751*(Based on a 1000x1000) other sizes will vary*		Class 3

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued in accordance of Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

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RAM-F-024G
Revision 16 26/03/2026

actionair
By Swegon

Supporting Construction	Min Supporting Construction Specification			Minium Thickness	Size Range	Blade Axis	Performance Classification	Thermal Release Position	Penetration Seal	Installation Reference
Flexible Wall *Standard Construction*	EI60 Classification	2x12.5, type F (EN520) Gypsum board each side	Insulation – at least 30kg/m^3 and 40mm thick (insulation optional)	100mm	200-1000mm X 200-1000mm	Horiz	E120(ve i↔o)S - (300Pa)	ETR Pos A	Different options available see drawing for details	DWFX-F AA/F10704
						Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
	EI60 Classification	2x12.5, type F (EN520) Gypsum board each side	Insulation – at least 30kg/m^3 and 40mm thick (insulation optional)	100mm	200-2050mm X 200-2075mm	Horiz only	E90(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)	ETR Pos C	No penetration seal	DWFX-F AA/F13409
	EI60 Classification	2x12.5, type F (EN520) Gypsum board each side	Insulation – at least 30kg/m^3 and 40mm thick (insulation optional)	100mm	200-1000mm X 200-1000mm	Horiz	E120(ve i↔o)S - (300Pa)	ETR Pos A	1x60mm thick Rockwool BATT 180kg/m3 density	S/A & BATT AA/F10710
						Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
	EI60 Classification	2x12.5, type F (EN520) Gypsum board each side	Insulation – at least 30kg/m^3 and 40mm thick (insulation optional)	100mm	200-1000mm X 200-1000mm	Horiz	E120(ve i↔o)S - (300Pa)	ETR Pos A	Mineral wool min 30Kg/m3	DWFX-3F AA/F11945
						Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
	EI60 Classification	2x12.5, type F (EN520) Gypsum board each side	Insulation – at least 30kg/m^3 and 40mm thick (insulation optional)	100mm	200-1000mm X 200-1000mm	Horiz	E120(ve i↔o)S - (300Pa)	ETR Pos A	12.5mm Gypsum board (type F)	DWFX-C AA/F10708
						Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
	EI60 Classification	2x12.5, type F (EN520) Gypsum board each side	Insulation – at least 30kg/m^3 and 40mm thick (insulation optional)	100mm	200-1000mm X 200-1000mm	Horiz	E120(ve i↔o)S - (300Pa)	ETR Pos A	12.5mm Gypsum board (type F)	DWFX-C Slab AA/F10730
						Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
Specific Wall Constuction *Non Standard Construction*	Composite Wall – Eurobond Firemaster Wall Extra			100mm	200-1000mm X 200-1000mm	Horiz	E90(ve i↔o)S - (300Pa)	ETR Pos A	Mineral wool 60kg/m3	DWFX-F AA/F13396
						Vertical	E60(ve i↔o)S - (300Pa) E90(ve i↔o) - (300Pa)			
	Composite Wall – Eurobond Firemaster Wall Extra			100mm	200 –2045mm X 200 –2070mm	Horiz only	E90(ve i↔o) - (300Pa)	ETR Pos A	Mineral wool 60kg/m3	DWFX-F AA/F13397
Rigid Wall *Standard Construction*	**Low density** concrete block, overall density 650 (+/-200) kg/m^3	**High density** blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m^3		100mm	200-1000mm X 200-1000mm	Horiz	E120(ve i↔o)S - (300Pa)	ETR Pos A	Different options available see drawing for details	DWFX-F AA/F12493
						Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
	Low density concrete block, overall density 650 (+/-200) kg/m^3	**High density** blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m^3		100mm	200-2050mm X 200-2075mm	Horiz only	E90(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)	ETR Pos C	No penetration seal	DWFX-F AA/F13410

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	Low density concrete block, overall density 650 (+/-200) kg/m^3	**High density** blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m^3	100mm	200-1000mm X 200-1000mm	Horiz	E120(ve i↔o)S - (300Pa)	ETR Pos A	1x60mm thick Rockwool BATT 180kg/m3 density	S/A & BATT AA/F10712
					Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
	Low density concrete block, overall density 650 (+/-200) kg/m^3	**High density** blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m^3	100mm	200-1000mm X 200-1000mm	Horiz	E120(ve i↔o)S - (300Pa)	ETR Pos A	Mineral wool min 30Kg/m3	DWFX-3F AA/F12394
					Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
	Low density concrete block, overall density 650 (+/-200) kg/m^3	**High density** blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m^3	150mm	200-1000mm X 200-1000mm	Hori	E120(ve i↔o)S - (300Pa)	ETR Pos A	Mortar	HEVAC/IF AA/F10702
					Vertical	E60(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)			
Rigid Floor *Standard Construction*	**Low density** aerated slab, - overall density (650+/-200) kg/m^3	**High density** concrete cast slab, - overall density ≥ 850kg/m^3	150mm	200-1000mm X 200-1000mm	N/A	E120(ho i↔o)S - (300Pa)	ETR Pos A	Mortar	Span AA/F12368 AA/F12864

Certification Pending

Supporting Construction	Min Supporting Construction Specification			Minium Thickness	Size Range	Blade Axis	Performance Classification	Thermal Release Position	Penetration Seal	Installation Reference
Flexible Wall *Standard Construction*	EI30 Classification	1x12.5, type F (EN520) Gypsum board each side	Insulation – at least 30kg/m^3 and 40mm thick (insulation optional)	75mm	200-1000mm X 200-1000mm	Horiz only	E60(ve i↔o)S - (300Pa)	ETR Pos B	No penetration seal	DWFX-F AA/F13412
	EI60 Classification	2x12.5, type F (EN520) Gypsum board each side	Insulation – at least 60kg/m^3 and 40mm thick (insulation optional)	100mm	200-1000mm X 200-1000mm	Horiz only	E90(ve i↔o)S - (300Pa)	ETR Pos B	1x100mmRockwool Softseal BATT 80kg/m3 density	S/A & BATT AA/F13528
	EI120 Classification	2x15, type F (EN520) Gypsum board each side	Insulation – at least 100kg/m^3 and 40mm thick (insulation optional)	122mm	200-1000mm X 200-1000mm	Horiz only	E120(ve i↔o)S - (300Pa)	ETR Pos B	1x100mmRockwool Softseal BATT 80kg/m3 density	S/A & BATT AA/F13528
Rigid Wall *Standard Construction*	**Low density** concrete block, overall density 650 (+/-200) kg/m^3	**High density** blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m^3		100mm	200-1000mm X 200-1000mm	Horiz only	E90(ve i↔o)S - (300Pa)	ETR Pos B	1x100mmRockwool Softseal BATT 80kg/m3 density	S/A & BATT AA/F13529
	Low density concrete block, overall density 650 (+/-200) kg/m^3	**High density** blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m^3		122mm	200-1000mm X 200-1000mm	Horiz only	E120(ve i↔o)S - (300Pa)	ETR Pos B	1x100mmRockwool Softseal BATT 80kg/m3 density	S/A & BATT AA/F13529
Specific Wall Construction	Shaft Wall – British Gypsum GypWall Shaft A306012(A) (EN). See drawing for other GypWall Shaft construction covered under the certification. *Actuator must be installed on non shaft side to maintain classification*			87mm	200-1000mm X 200-1000mm	Horiz only	E120(ve i↔o)S - (300Pa)	ETR Pos B	No penetration seal	DWFX-F AA/F13472

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Non Standard Construction	Flexible Cavity Barrier – TBA Firefly Zeus Lite 90:30 *The results obtained are only applicable to this specific system having a thickness and/or density equal or greater than that tested.*	6mm	200-1000mm X 200-1000mm	Horiz only	E60(ve i↔o)S - (300Pa)	ETR Pos B	Uses the cavity barrier you install in	CBFX-F AA/F13550
	Flexible Cavity Barrier – TBA Firefly Apollo Lite 30:30 *The results obtained are only applicable to this specific system having a thickness and/or density equal or greater than that tested.*	6mm	200-1000mm X 200-1000mm	Horiz only	E60(ve i↔o)S - (300Pa)	ETR Pos B	Uses the cavity barrier you install in	CBFX-F AA/F13550
	Flexible Ceiling – British Gypsum – GypCeiling G106040 (EN) *The results obtained are only applicable to this specific system having a thickness and/or density equal or greater than that tested.*	56mm	200-1000mm X 200-1000mm	N/A	E120(ho i↔o)S - (300Pa)	ETR Pos B	25mm stone mineral wool insulation, min 100kg/m3.	DCFX-F AA/F13551
	Flexible non-loadbearing wall with Timber Studs – British Gypsum A026041 (EN). *The results obtained are only applicable to this specific system having a thickness and/or density equal or greater than that tested.*	93mm	200-1000mm X 200-1000mm	Horiz only	E90(ve i↔o)S - (300Pa)	ETR Pos B	2x50mm thick BATT at 140kg/m3 density.	DWFX-F AA/F13752
Rigid Wall *Standard Construction*	**Low density** concrete block, overall density 650 (+/-200) kg/m^3 / **High density** blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m^3	75mm	200-1000mm X 200-1000mm	Horiz Only	E60(ve i↔o)S - (300Pa)	ETR Pos B	No penetration seal	DWFX-F AA/F12493
Rigid Floor *Non Standard Construction*	Composite Floor System – Tata Steel ComFlor 60 Profile – Rib Deck *The results obtained are only applicable to this specific system having a thickness and/or density equal or greater than that tested.*	120mm	200-1000mm X 200-1000mm	N/A	E120(ho i↔o)S - (300Pa)	ETR Pos A	Mortar	Span AA/F13720 AA/F13721

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Sensing Element (Thermal Release) Position	Description
Position A	Can be mounted on either the top, bottom or side of the ductwork, in any position
Position B	Can be mounted on the side of the ductwork, on the centre line or higher
Position C	Can be mounted on the side of the ductwork, 200mm above centre line or higher

Actuator Options	Description
Mode 5	24 Volt, Fail Safe Closed
Mode 6	230 Volt, Fail Safe Closed
Mode 5-3P	24 Volt, Modulating, Fail Safe Closed

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Signed for on behalf on the manufacturer
Business Unit Director for Smoke and Fire Solutions

Andrew Collard

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