



EC DECLARATION OF PERFORMANCE

RAM-F-024 C

CSS Fire Damper

Complying with the following EU Regulation:
305/2011/EEC : Construction Products Regulation

Swegon Air Management LTD
Actionair, South Street, Whitstable, Kent CT5 3DU

System 1
Applus+ – NB0370

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 and issued the certificate of constancy of conformity of the factory production control (0370-CPR-5271)

Declared performance according to:
BS EN 15650 'Ventilation for buildings: Fire Dampers'

Product	Circular Smoke Shield (CSS)
Intended Use	Fire Damper (actuated), to be used in conjunction with fire partitions 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/Notified Body/Certificate number	BS EN15650, Applus, certificate number 0370-CPR-5271
Performance Standard	Testing to BS EN 1366-2, Classification to BS EN 13501-3, EXAP to BS EN 15882-2

Installation Method	Drawing	Size Range	Wall/Floor Type	Min Wall/Floor Thickness	Min Supporting Construction			Performance Classification
Single Side Flange	AA/F12820	Ø100mm - Ø355mm	Flexible Wall	100mm	EI60 Classification	2x12.5, type F (EN520) board each side	Insulation – at least 30kg/m ³ and 40mm thick (insulation optional)	E90(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)
Single Side Flange	AA/F13413	Ø100mm - Ø355mm	Flexible Wall	75mm	EI30 Classification	1x12.5, type F (EN520) board each side	Insulation – at least 30kg/m ³ and 40mm thick (insulation optional)	E60(ve i↔o)S - (300Pa)
Single Side Flange	AA/F12822	Ø100mm - Ø355mm	Rigid Wall	100mm	Blockwork			E90(ve i↔o)S - (300Pa) E120(ve i↔o) - (300Pa)
Single Side Flange	AA/F12822	Ø100mm - Ø355mm	Rigid Wall	75mm	Blockwork			E60(ve i↔o)S - (300Pa)
Single Side Flange	AA/F12821	Ø100mm - Ø355mm	Floor	100mm	Aerated concrete 580kg/m ³			E120(ho i↔o)S - (300Pa)

Additional Options	Description
Case Material	Galvanised Steel, 430 Stainless Steel, 316 Stainless Steel
Blade Material	Galvanised Steel, 430 Stainless Steel, 316 Stainless Steel
Actuator Options	Mode 5 (24V), Mode 6 (230V), Mode 5-3P (24V)

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Essential Characteristic	Performance
Nominal activation conditions/sensitivity according to ISO 10294-4, <i>Sensing element – Response behavior and faulty set-off</i>	Pass
Response delay (response time) according to BS EN 1366-2, <i>Closure time</i>	Pass
Operational reliability according to BS EN 1366-2, <i>Cycling</i>	Pass
Durability of response delay accordingly to BS EN 1366-2, <i>Sensing element response to temperature and load bearing capacity</i>	Pass
Durability of operational reliability according to BS EN 15650, <i>Open and closing cycle</i>	10,000 cycles nominal Voltage, 100 cycles -10% voltage, 100 cycles +15% Voltage
Durability of operational reliability according to BS EN 15650, <i>Open, close and modulating cycle</i>	10,000 cycles 0°- 90° nominal voltage, 10,000 cycles 45°- 60° nominal voltage
Protection against corrosion according to EN 60068-2-52	Pass
Damper casing leakage according to BS EN 1751	Class C
Damper blade leakage according to BS EN 1751 (<i>Based on a Ø355mm</i>)	Class 3

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


