

# 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<br>-Sensing element load bearing capacity<br>-Sensing element response temperature | 4.2.1.2<br>4.2.1.2.2<br>4.2.1.2.3 | NPD                                               |
| Response delay (response time)<br>-Closure time                                                                             | 4.2.2.2                           | Pass                                              |
| Operational reliability<br>-Cycling                                                                                         | 4.3.1, a)                         | 50 Cycles                                         |
| Fire Resistance:                                                                                                            | 4.1.1 a), 4.4.1                   | Up to E120(ve ho i↔o )S<br>Specific details below |
| Integrity                                                                                                                   | 4.1.1 a)                          | Up to E120(ve ho i↔o )S<br>Specific details below |
| Insulation                                                                                                                  | 4.1.1 b)                          | NPD                                               |
| Smoke Leakage                                                                                                               | 4.1.1 c)                          | Up to E120(ve ho i↔o )S<br>Specific details below |
| Mechanical Stability (under E)                                                                                              | 4.1.1 a)                          | Up to E120(ve ho i↔o )S<br>Specific details below |
| Maintenance of the cross section (under E)                                                                                  | 4.1.1 a)                          | Up to E120(ve ho i↔o )S<br>Specific details below |
| Durability of response delay:<br>-Sensing element response to temperature and load bearing capacity                         | 4.2.1.2.2 &<br>4.2.1.2.3          | Pass                                              |
| Durability of operational reliability:<br>-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.

Registered Address  
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RAM-F-024G  
Revision 14 18/10/2024

| Supporting Construction                                          | Min Supporting Construction Specification                                         |                                               |                                                                                                         | Minium Thickness | Size Range                | Blade Axis | Performance Classification                       | Thermal Release Position | Penetration Seal                                    | Installation Reference |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------|---------------------------|------------|--------------------------------------------------|--------------------------|-----------------------------------------------------|------------------------|
| Flexible Wall<br>Standard<br>Construction                        | El60 Classification                                                               | 2x12.5, type F (EN520) Gypsum board each side | Insulation – at least 30kg/m <sup>3</sup> 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)<br>E120(ve i↔o) - (300Pa) |                          |                                                     |                        |
|                                                                  | El60 Classification                                                               | 2x12.5, type F (EN520) Gypsum board each side | Insulation – at least 30kg/m <sup>3</sup> and 40mm thick (insulation optional)                          | 100mm            | 200-2050mm X 200-2075mm   | Horiz only | E90(ve i↔o)S - (300Pa)<br>E120(ve i↔o) - (300Pa) | ETR Pos C                | No penetration seal                                 | DWFX-F AA/F13409       |
|                                                                  | El60 Classification                                                               | 2x12.5, type F (EN520) Gypsum board each side | Insulation – at least 30kg/m <sup>3</sup> 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)<br>E120(ve i↔o) - (300Pa) |                          |                                                     |                        |
|                                                                  | El60 Classification                                                               | 2x12.5, type F (EN520) Gypsum board each side | Insulation – at least 30kg/m <sup>3</sup> 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)<br>E120(ve i↔o) - (300Pa) |                          |                                                     |                        |
| Specific Wall<br>Construction<br>Non<br>Standard<br>Construction | El60 Classification                                                               | 2x12.5, type F (EN520) Gypsum board each side | Insulation – at least 30kg/m <sup>3</sup> 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)<br>E120(ve i↔o) - (300Pa) |                          |                                                     |                        |
|                                                                  | El60 Classification                                                               | 2x12.5, type F (EN520) Gypsum board each side | Insulation – at least 30kg/m <sup>3</sup> 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)<br>E120(ve i↔o) - (300Pa) |                          |                                                     |                        |
|                                                                  | 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)<br>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<br>Standard<br>Construction                           | <b>Low density</b> concrete block, overall density 650 (+/-200) kg/m <sup>3</sup> |                                               | <b>High density</b> blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m <sup>3</sup> | 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)<br>E120(ve i↔o) - (300Pa) |                          |                                                     |                        |
|                                                                  | <b>Low density</b> concrete block, overall density 650 (+/-200) kg/m <sup>3</sup> |                                               | <b>High density</b> blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m <sup>3</sup> | 100mm            | 200-2050mm X 200-2075mm   | Horiz only | E90(ve i↔o)S - (300Pa)<br>E120(ve i↔o) - (300Pa) | ETR Pos C                | No penetration seal                                 | DWFX-F AA/F13410       |

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|---------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|-------------------------|----------|----------------------------------------------------|-----------|---------------------------------------------|-----------------------------|
|                                             | <b>Low density</b> concrete block, overall density 650 (+/-200) kg/m <sup>3</sup> | <b>High density</b> blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m <sup>3</sup> | 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)<br>E120(ve i↔o ) - (300Pa) |           |                                             |                             |
|                                             | <b>Low density</b> concrete block, overall density 650 (+/-200) kg/m <sup>3</sup> | <b>High density</b> blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m <sup>3</sup> | 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)<br>E120(ve i↔o ) - (300Pa) |           |                                             |                             |
|                                             | <b>Low density</b> concrete block, overall density 650 (+/-200) kg/m <sup>3</sup> | <b>High density</b> blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m <sup>3</sup> | 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)<br>E120(ve i↔o ) - (300Pa) |           |                                             |                             |
| Rigid Floor<br><i>Standard Construction</i> | <b>Low density</b> aerated slab, - overall density (650+/-200) kg/m <sup>3</sup>  | <b>High density</b> concrete cast slab, - overall density ≥ 850kg/m <sup>3</sup>                        | 150mm | 200-1000mm X 200-1000mm | N/A      | E120(ho i↔o )S - (300Pa)                           | ETR Pos A | Mortar                                      | Span AA/F12368<br>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<br><i>Standard Construction</i> | EI30 Classification                                                                                                                                                                                                            | 1x12.5, type F (EN520) Gypsum board each side | Insulation – at least 30kg/m <sup>3</sup> 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 <sup>3</sup> 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 <sup>3</sup> 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<br><i>Standard Construction</i>    | <b>Low density</b> concrete block, overall density 650 (+/-200) kg/m <sup>3</sup>                                                                                                                                              |                                               | <b>High density</b> blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m <sup>3</sup> | 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   |
|                                               | <b>Low density</b> concrete block, overall density 650 (+/-200) kg/m <sup>3</sup>                                                                                                                                              |                                               | <b>High density</b> blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m <sup>3</sup> | 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<br><i>Constuction</i>           | Shaft Wall – British Gypsum GypWall Shaft A306012(A) (EN).<br><i>See drawing for other GypWall Shaft construction covered under the certification. Actuator must be installed on non shaft side to maintain classification</i> |                                               |                                                                                                         | 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<br><i>The results obtained are only applicable to this specific system having a thickness and/or density equal or greater than that tested.</i>       | 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<br><i>The results obtained are only applicable to this specific system having a thickness and/or density equal or greater than that tested.</i>     | 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)<br><i>The results obtained are only applicable to this specific system having a thickness and/or density equal or greater than that tested.</i> | 56mm | 200-1000mm X 200-1000mm | N/A        | E120(ho i↔o)S - (300Pa) | ETR Pos B | 25mm stone mineral wool insulation, min 100kg/m <sup>3</sup> . | DCFX-F AA/F13551 |
| Rigid Wall Standard Construction | <b>Low density</b> concrete block, overall density 650 (+/-200) kg/m <sup>3</sup><br><b>High density</b> blockwork, masonry or homogenous concrete, - overall density ≥ 850kg/m <sup>3</sup>                | 75mm | 200-1000mm X 200-1000mm | Horiz Only | E60(ve i↔o)S - (300Pa)  | ETR Pos B | No penetration seal                                            | DWFX-F AA/F12493 |

| 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



Date of Signature:

Place of Signature: Swegon Air Management Ltd  
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