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EC Declaration of Performance for FSD-TD (Motorised Fire Damper)

CE

DoP CERTIFICATE NUMBER INC. REVISION NO	CE DoP-FSD-TD-14
MANUFACTURER	BSB Engineering Services Ltd, 56 Trinity Trade Centre, Mill Way, Sittingbourne, Kent, ME10 2PD, UK.
INTENDED USE	For use in conjunction with fire protection elements to maintain fire compartmentation.
HARMONISED STANDARD	EN 15650:2010 (Ventilation for Buildings – Fire Dampers).
SYSTEM OF ASSESSMENT & VERIFICATION OF CONSTANCY OF PERFORMANCE	System 1
CERTIFICATE OF CONSTANCY OF PERFORMANCE	Applus: 0370-CPR-6580, 0370-CPR-7096, 0370-CPR-7098
NOTIFIED BODY & CERTIFICATE	Applus+ | 0370 Who have performed the determination of the product type on the basis of type testing and initial inspection of the manufacturing plant and of factory production control including continuous surveillance, under system 1.
CONSTRUCTION PRODUCTS REGULATION (CPR) THAT APPLIES	Regulation (EU): no. 305/2011.
MATERIALS: CASE & BLADES	Case: galvanised or 430 stainless steel. Blades: galvanised or 430 stainless steel.
DECLARED PERFORMANCE	
NOMINAL ACTIVATION CONDITIONS/SENSITIVITY: 4.2.1.2 - SENSING ELEMENT LOAD BEARING CAPACITY 4.2.1.2.2 - SENSING ELEMENT RESPONSE TEMPERATURE 4.2.1.2.3	Pass
RESPONSE DELAY (RESPONSE TIME): CLOSURE TIME 4.2.2.2	Pass
OPERATIONAL RELIABILITY: CYCLING 4.3.1, a)	50 Cycles
INTEGRITY (E) 4.1.1, a)	See page 2 - Levels and/or Classes
INSULATION (I) 4.1.1, b)	NPD*
LEAKAGE (S) 4.1.1, c)	See page 2 - Levels and/or Classes
MECHANICAL STABILITY (under E) 4.1.1, a)	See page 2 - Levels and/or Classes
MAINTENANCE OF THE CROSS SECTION (under E) 4.1.1, a)	See page 2 - Levels and/or Classes
DURABILITY OF RESPONSE DELAY: 4.2.1.2.2 & 4.2.1.2.3 -SENSING ELEMENT RESPONSE TO TEMPERATURE AND LOAD BEARING CAPACITY	Pass
DURABILITY OF OPERATIONAL RELIABILITY: -OPEN AND CLOSING CYCLE TESTS 4.3.3.2	10,000 Cycles
CORROSION RESISTANCE TESTED TO LPS1162 IN ACCORDANCE WITH EN 60068-2-52	Pass

* NPD = No Performance Determined.

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CE

Fire resistance according to EN 1366-2:2015. Classifications according to EN 13501-3:2005+A1:2009. EXAP according to EN 15882-2:2015.
Classification Reports: Applus 22-32303323-1, 22-32304523-2, 23-32307524-1, 23.32304162-2, 23-32306894-1.
EXAP Reports P100960-1010 and 22-32303323.

TYPE	INSTALLATION DRAWING	SUPPORTING CONSTRUCTION	MINIMUM CONSTRUCTION	MIN/MAX SIZE (MM)	CASE/BLADE MATERIALS (Materials can be mixed, but lowest Level and Class applies)	MAXIMUM LEVEL AND/OR CLASSES
FSD-TD-HF	FSD-TD M1	Masonry Floor	150mm Thick Concrete Density 580kg/m³	100 x 100 / 1000 x 1000	Galvanised Steel 430 Stainless Steel	E 120 (ho i↔o) S E 120 (ho i↔o) S
FSD-TD -HF	FSD-TD M2	Masonry Wall	150mm Thick Masonry Density 650kg/m³	100 x 100 / 1000 x 1000	Galvanised Steel 430 Stainless Steel	E 120 (ve i↔o) S E 120 (ve i↔o) S
FSD-TD -PF	FSD-TD M5	Drywall Partition	Group B 70mm Steel Stud 2 Layer of 12.5mm Type F Board Each Side (EI 90 Fire Resistance)	100 x 100 / 1000 x 1000	Galvanised Steel	E 120 (ve i↔o) S
FSD-TD -CL	FSD-TD M6	Drywall Partition	Group B 70mm Steel Stud 2 Layer of 12.5mm Type F Board Each Side (EI 90 Fire Resistance)	100 x 100 / 1000 x 1000	Galvanised Steel 430 Stainless Steel	E 120 (ve i↔o) S E 120 (ve i↔o) S
FSD-TD–AF	FSD-TD M9	Drywall Partition	Group A 50mm Steel Stud 1 Layer of 12.5mm Type F Board Each Side (EI 30 Fire Resistance)	100 x 100 / 1000 x 1000	Galvanised Steel	E 90 (ve i↔o) S
FSD-TD-AF	FSD-TD M9	Drywall Partition	Group B 70mm Steel Stud 2 Layer of 12.5mm Type F Board Each Side (EI 90 Fire Resistance)	100 x 100 / 1000 x 1000	Galvanised Steel 430 Stainless Steel	E 120 (ve i↔o) S E 120 (ve i↔o) S
FSD-TD-AF	FSD-TD M10	Masonry Wall	100mm Thick Masonry Density 650kg/m³	100 x 100 / 1000 x 1000	Galvanised Steel 430 Stainless Steel	E 120 (ve i↔o) S E 120 (ve i↔o) S
FSD-TD-AF	FSD-TD M11	Masonry Floor	150mm Thick Concrete Density 580kg/m³	100 x 100 / 1000 x 1000	Galvanised Steel 430 Stainless Steel	E 120 (ho i↔o) S E 120 (ho i↔o) S
FSD-TD-BATT	FSD-TD M12	Drywall Partition with Batt Infill	Group B 70mm Steel Stud 2 Layer of 12.5mm Type F Board Each Side (EI 90 Fire Resistance) Single layer of 60mm Ablative Coated Batt Density 180kg/m³	100 x 100 / 1000 x 1000	Galvanised Steel	E 120 (ve i↔o) S
FSD-TD-BATT	FSD-TD M12	Masonry Wall with Batt Infill	150mm Thick Masonry Density 650kg/m³Single layer of 60mm Ablative Coated Batt Density 180kg/m³	100 x 100 / 1000 x 1000	Galvanised Steel	E 120 (ve i↔o) S

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CE

TYPE	INSTALLATION DRAWING	SUPPORTING CONSTRUCTION	MINIMUM WALL CONSTRUCTION	MIN/MAX SIZE (MM)	CASE/BLADE MATERIALS (Materials can be mixed, but lowest Level and Class applies)	MAXIMUM LEVEL AND/OR CLASSES
FSD-TD-FC	FSD-TD M14	Fire Curtain	Apollo Lite 30:30 Minimum Thickness 6mm	100 x 100 / 1000 x 1000	Galvanised Steel	E 60 (ve i↔o) S
FSD-TD-FC	FSD-TD M14	Fire Curtain	Zeus Lite 90:30 Minimum Thickness 6mm	100 x 100 / 1000 x 1000	Galvanised Steel	E 90 (ve i↔o) S
FSD-TD-AF	FSD-TD M9 MULTI	Drywall Partition	Group B 70mm Steel Stud 2 Layer of 12.5mm Type F Board Each Side (EI 90 Fire Resistance)	2076 x 2076 (Max size)	Galvanised Steel	E 120 (ve i↔o) S
FSD-TD-AF	FSD-TD M10 MULTI	Masonry Wall	120mm Thick Masonry Density 650kg/m³	2076 x 2076 (Max size)	Galvanised Steel	E 120 (ve i↔o) S
FSD-TD-AF	FSD-TD M11 MULTI	Masonry Floor	150mm Thick Masonry Density 2400kg/m³	2076 x 2076 (Max size)	Galvanised Steel	E 120 (ho i↔o) S

The damper FSD-TD is classified to be installed in EI 30, EI 60, EI 90 and EI 120 symmetrical drywalls, with and without acoustic insulation.

The supporting construction must be of the same type with a fire resistance equal or greater than that of the supporting construction used in the test (thicker, denser, more layers of board, as appropriate).

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 with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed at the premises of, and on behalf of BSB Engineering Services Ltd.

Mike Backham
Technical Director
Date: 11th April 2024