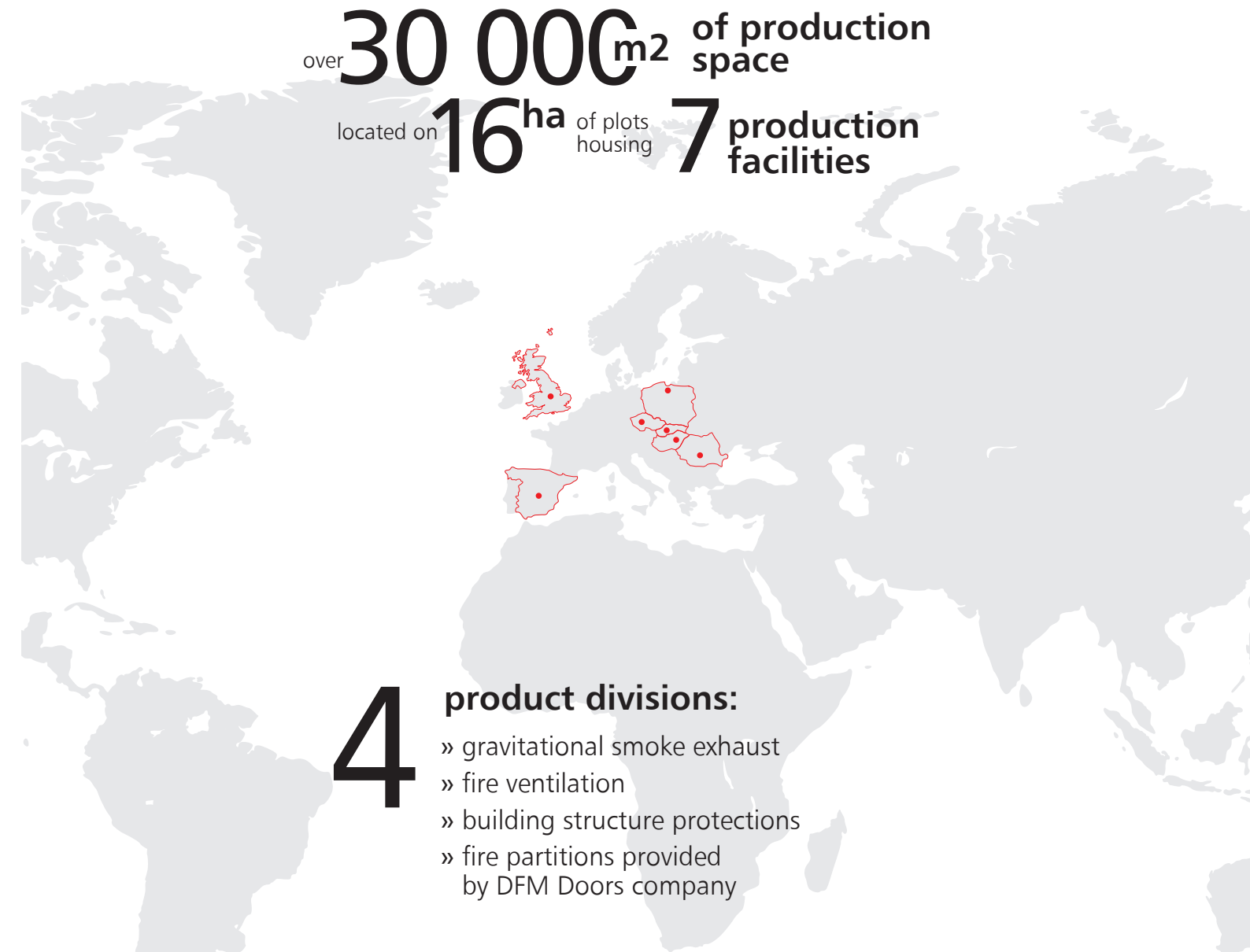




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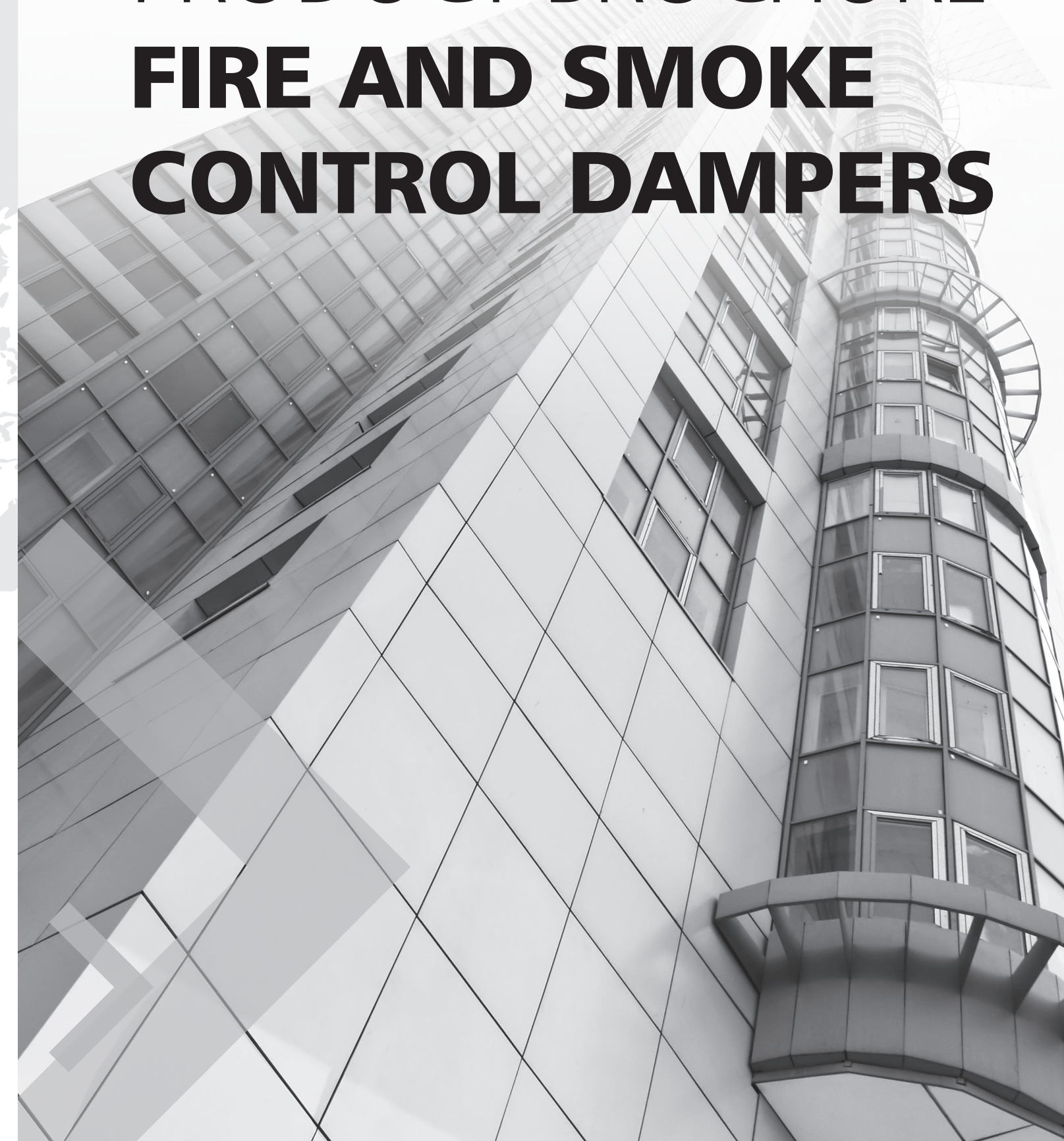
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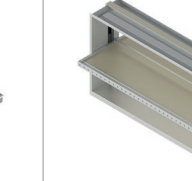
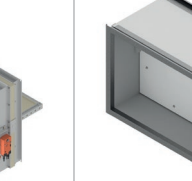
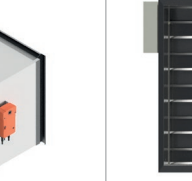





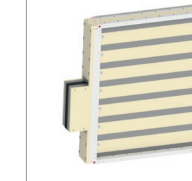


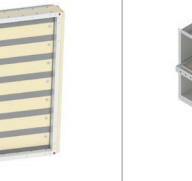
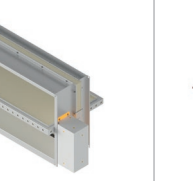
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FIRE DAMPERS

SMOKE CONTROL DAMPER

Damper type	> mcr FID PRO	> mcr FID S/S p/O	> mcr FID S/S c/P	> mcr FID S/S p/P	> mcr FID 240	> mcr WIP/S	> mcr WIP PRO/S	> mcr FID WING	> mcr ZIPP	> mcr WIP/T	> mcr WIP PRO/T	> mcr WIP/V	> mcr WIP PRO/V	> mcr FID S/V p/P	> mcr FID B	> mcr DOR
Properties																
Type of installation / application	Comfort ventilation	Comfort ventilation	Comfort ventilation	Comfort ventilation	Comfort ventilation	Comfort ventilation	Comfort ventilation	Comfort ventilation	Comfort ventilation	Transfer damper	Transfer damper	Smoke exhaust + Transfer damper	Smoke exhaust + Comfort ventilation	Smoke exhaust + Comfort ventilation	Smoke exhaust + Comfort ventilation	Smoke exhaust
CE Standards / fire resistance / fire classification	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 15650 / EN 1366-2 / EN 13501-3	EN 12101-8 / EN 1366-10 / EN-13501-4	EN 12101-8 / EN 1366-10 / EN-13501-4	EN 12101-8 / EN 1366-10 / EN-13501-4	EN 12101-8 / EN 1366-10 / EN-13501-4	EN 12101-8 / EN 1366-10 / EN-13501-4
Declaration of performance	003-05-CPR-2015	004-05-CPR-2015	006-05-CPR-2015	004-05-CPR-2015	003-05-CPR-2021	001-05-CPR-2015	009-05-CPR-2016	002-05-CPR-2021	002-05-CPR-2015	001-05-CPR-2015	009-05-CPR-2016	008-05-CPR-2016	010-05-CPR-2016	001-05-CPR-2018	001-05-CPR-2021	002-05-CPR-2022
Damper type	Low resistance rectangular single - blade	Circular single - blade	Low resistance rectangular single - blade	Rectangular single - blade	Rectangular single - blade	Rectangular multi - blade	Rectangular multi - blade	Butterfly damper	Round valve	Rectangular multi - blade	Rectangular multi - blade	Rectangular multi - blade	Rectangular multi - blade	Rectangular single - blade	Rectangular single - blade	Rectangular door
Dimensions	D100 ÷ D315 [mm]	D125 ÷ D630 [mm]	for v _e , i h _e : 200x200 ÷ 800x400 [mm] for v _e : 200x200 ÷ 1000x800 [mm]	200x200 ÷ 1500x1200 [mm] 200x200 ÷ 1200x1500 [mm] maximum damper's cross-section: 1,8 m ²	200x200 ÷ 1000x800 [mm]	120x160 ÷ 1000x1000 [mm] (Except dampers whose height ends in a dimension between 36 and 54, e.g. 136-154, 236-254...)	for v _e : 110x270 ÷ 900x1250 [mm] for h _e : 110x270 ÷ 1000x1000 [mm]	D100, D125, D160, D200 [mm]	D100, D125, D160, D200 [mm]	120x160 ÷ 1000x1000 [mm] (Except dampers whose height ends in a dimension between 36 and 54, e.g. 136-154, 236-254...)	110x270 ÷ 900x1250 [mm]	120x160 ÷ 1000x1000 [mm] (Except dampers whose height ends in a dimension between 36 and 54, e.g. 136-154, 236-254...)	horizontal axis of rotation (v _{ew}): 110x263 ÷ 900x1250 [mm] vertical axis of rotation (v _{ew}): 110x263 ÷ 1250x1250 [mm] horizontal axis of rotation (v _{ew} , h _{ed}): 110x263 ÷ 1250x1250 [mm]	200x200 ÷ 1500x1000 [mm] 200x200 ÷ 1000x1500 [mm] maximum damper's cross-section: ≤1,5m ² damper's battery (set): 20m ² max. dimension of a single damper with vertical axis of rotation: 1500 x 710 [mm]	200x200 ÷ 1200x800 [mm]	480x380 ÷ 1330x1330 [mm]
Trigger and control mechanism	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger KW1	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger KW1	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger KW1	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger KW1	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V)	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V)	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger KW1	Mechanism spring loaded with fuse trigger	Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger KW1	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V)	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger KW1	Bi-directional actuator type BE, BEE, BEN (24V or 230V)	Bi-directional actuator type BE, BEE, BEN (24V or 230V)	Bi-directional actuator type BE, BEE, BEN (24V or 230V)	Bi-directional actuator type BE, BEE, BEN (24V or 230V)	Mechanism spring loaded with fuse trigger
Casing tightness class [A/B/C] acc. to PN-EN 1751	C	C	C	C	B	C	C	-	-	C	C	C	C	C	C	C
Damper blade tightness in closed position [1/2/3/4] acc. To PN-EN 1751	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2
ATEX execution	✓	✓	✓	✓	X	✓	✓	X	✓	✓	✓	X	X	X	X	X
Casing material	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Fireproof boards + steel frames	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Fireproof boards + galvanised steel, coating ZN optional: stainless steel or 1.4404 acid proof steel	Painted steel	Painted steel	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Fireproof boards + galvanised steel, coating ZN optional: stainless steel or 1.4404 acid proof steel	Galvanised steel coat. Optional: stainless steel, acid-proof steel	Fireproof boards + galvanised steel	Fireproof boards + galvanised steel

Installation																	
Rigid walls/shafts	Classification	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI240 (v _e i↔o) S	EI60 (v _e i↔o) S EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S EI60 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI180 (v _e i↔o)	EI120 (v _e i↔o) 1000 C ₁₀₀₀₀ AAmulti	EI120 (v _{ew} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti (in the distance)	EI180(v _{ed} i↔o)S1500 C ₃₀₀ AAmulti (in the distance)	
	Min. partition thickness	125 mm	110 mm	110 mm	110 mm	150 mm	120 mm	120 mm	100 mm 100 mm	110 mm	120 mm	120 mm	110 mm	125 mm	120 mm 110 mm	-	-
Light-weight walls/shafts	Classification	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	X	X	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S EI60 (v _e i↔o) S	EI120 (v _e i↔o) S	X	EI180 (v _e i↔o)	X	EI120 (v _{ew} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti for damper with an area <1,25m ²	EI180(v _{ed} i↔o)S1500 C ₃₀₀ AAmulti (in the distance)	
	Min. partition thickness	125 mm	125 mm	125 mm	125 mm	X	X	125 mm	100 mm 100 mm	125 mm	X	125 mm	X	125 mm	125 mm	-	-
Ceilings	Classification	EI120 (h _e i↔o) S	EI120 (h _e i↔o)S	EI120 (h _e i↔o)S	EI120 (h _e i↔o)S	X	X	EI90 (h _e i↔o) S EI120 (h _e i↔o) S	EI120 (h _e i↔o) S EI60 (h _e i↔o) S	EI120 (h _e i↔o) S	X	X	X	EI120(h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti (in the distance)	X
	Min. partition thickness	150 mm	150 mm	150 mm	150 mm	X	X	150 mm	150 mm 100 mm	150 mm	X	X	X	-	-	-	X
Installation outside the vertical building partition		✓	X	X	✓	X	X	X	X	X	X	X	X	✓	✓	X	X
Battery assembly		-	-	X	Series assembly	X	X	X	-	-	X	X	X	To 4m ² for the partition by min. thickness 125 mm	20m ² : with vertical axis of rotation, mechanism at the top or/and at the bottom of the battery - for the partition by min. thickness 120 mm	X	✓
Vertical axis of rotation		✓	✓	✓	✓	X	X	X	✓	✓	✓	✓	✓	✓	✓	✓	X
Dry assembly with mineral wool		✓	X	✓	X	✓	X	X	✓	X	X	X	X	X	X	-	-
Multi - zone		-	-	-	-	-	-	-	-	-	-	-	X	EI120(v _{ed} h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ed} h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	vertical and horizontal position: EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti	vertical position: EI180(v _{ed} i↔o)S 1500 C ₃₀₀ AAmulti
Single - zone		-	-	-	-	-	-	-	-	-	-	-	X	EI120(v _{ed} h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ed} h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	vertical and horizontal position: EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti	vertical position: EI180(v _{ed} i↔o)S 1500 C ₃₀₀ AAmulti
Minimum distance damper/damper		60 mm	200 mm (acc. to norm)	200 mm (acc. to norm)	60 mm (PP)	200 mm (acc. to norm)	200 (acc. to norm)	200 (acc. to norm)	50 mm	200 mm (acc. to norm)	200 mm (acc. to norm)	200 mm (acc. to norm)	200 mm (acc. to norm)	200 mm (acc. to norm) not applicable to batteries	200 mm (acc. to norm) not applicable to batteries	-	-
Minimum distance damper/partition		75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)