

DECLARATION OF PERFORMANCE NO. 001-05-CPR-2018

1. Unique identification code of the product type:

Smoke control dampers and multiple sets of dampers type mcr FID S/V p/P used in single and multi compartment smoke and heat control systems, with a fire resistance classification according EN 13501-4:2016

EI 120 ($v_{ew} i \leftrightarrow o$) S1500C_{10 000}AAmulti

EI 120 ($v_{ed} h_{od} i \leftrightarrow o$) S1000C_{10 000}AAmulti

EI 120 ($v_{edw} h_{od} i \leftrightarrow o$) S1000C_{10 000}AAmulti

EI 120 ($v_{ew} i \leftrightarrow o$) S1000C_{10 000}AAmulti

EI 60 ($v_{ew} i \leftrightarrow o$) S1500C_{10 000}AAmulti

2. Intended use and scope of application of the product:

Smoke control dampers and multiple sets of dampers mcr FID S/V p/P are intended for use in the following types of systems: exhaust systems, aeration systems, relief systems, duct systems, and inert gas extinguishing systems. The dampers are designed to be control single and multiple fire zones.

3. Manufacturer:

MERCOR Light&Vent Sp. z o.o., ul. Grzegorza z Sanoka 2, 80-408 Gdańsk, Production Site Ul. Kwarcowa 3a, 83-031 Cieplewo, and 380-470.

4. System of assessment and verification of constancy of performance of the product:

System 1.

5. Construction product covered by the harmonized standard:

PN-EN 12101-8:2012 (EN 12101-8:2011).

6. Notified body name and No., certificate of conformity No.:

Notified body No.2434, Centrum Techniki Okrętowej S.A, ul. Szczecińska 65, 80-392 Gdańsk.

Certificate of Constancy of Performance: 2434-CPR-0029.

Notified body No. 1396, FIRES, s.r.o., Osloboditelov 282, 059 35 Batizovce.

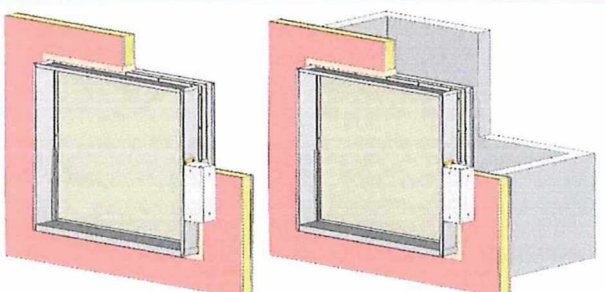
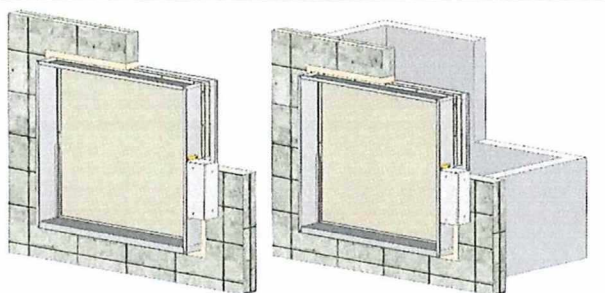
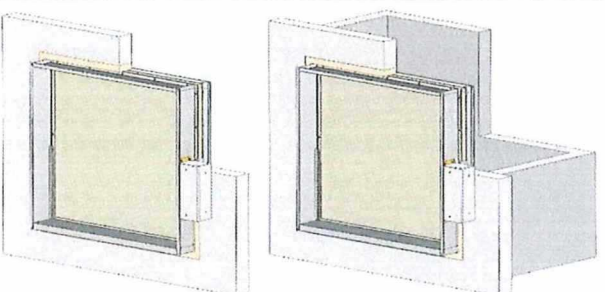
Certificate of Constancy of Performance: 1396-CPR-0178

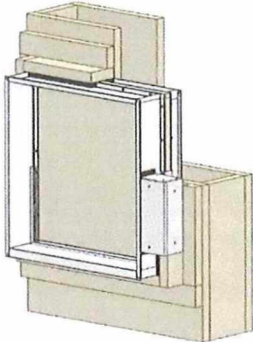
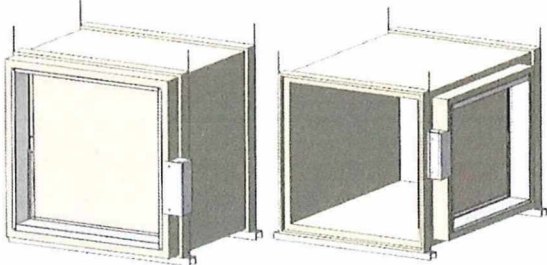
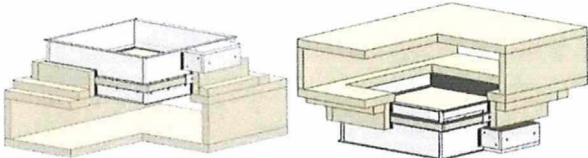
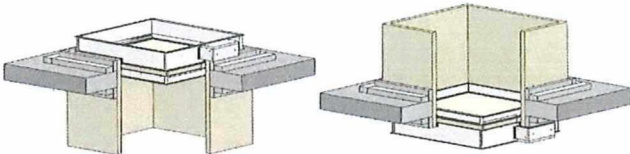
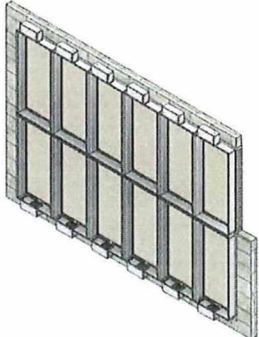
7. Declared performance:

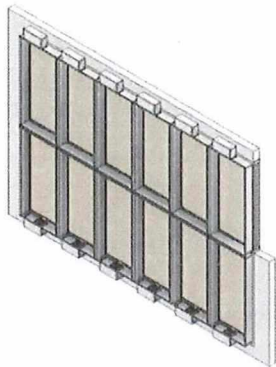
Essential characteristics	EN 12101-8:2011	Performance	Result
Nominal activation conditions/sensitivity	4.2.1.3	-	Pass
Response time/ Closure time	4.2.1.4	-	Pass
Operational reliability - cycling	4.3.2.2	C 10.000	Pass
Fire resistance – integrity	4.1.1 a)	E120 / E60	Pass
Fire resistance – insulation	4.1.1 b)	EI120 / EI60	Pass
Fire resistance – smoke leakage	4.1.1 c)	EIS120 / EIS60	Pass
Mechanical stability (E class)	4.1.1 d)	-	Pass
Maintenance of the cross section (E class)	4.1.1 e)	-	Pass
High working temperature	4.1.1 f)	-	NPD
Durability of response delay	4.4.2.1	-	Pass
Durability of operational	4.4.2.2	10 000	Pass

8. Additional properties:

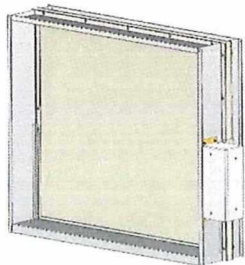
Additional characteristics	EN 12101-8:2011	Performance	Result
Vertical / horizontal axis of rotation	-	Yes	-
Fire resistance classification	4.4.3	EI 120 ($v_{ew} i \leftrightarrow o$) S1500C _{10 000} AAmulti* EI 120 ($v_{ed} h_{od} i \leftrightarrow o$) S1000C _{10 000} AAmulti** EI 120 ($v_{edw} i \leftrightarrow o$) S1000C _{10 000} AAmulti**** EI 120 ($v_{ew} i \leftrightarrow o$) S1000C _{10 000} AAmulti*** EI 60 ($v_{ew} i \leftrightarrow o$) S1500C _{10 000} AAmulti***	Pass
Size range	Rectangular damper: 200x200 to 1250x1000 [mm], max. area not larger than 1.25m ² * Rectangular damper: 200x200 to 1500x1000 [mm], max. area not larger than 1.5m ² ** A multiple fire dampers set consisting rectangular dampers: from 200x200 up to 1500x710 [mm], with vertical axis of rotation, release and control mechanisms at the top or bottom of the damper set. *** Rectangular damper: 200x200 to 1500x1000 [mm], max. area not larger than 1.5m ² ****		
Insulation	Lightweight walls - wall thickness min 125mm* Solid walls, walls made of concrete blocks, hollow masonry units, bricks – wall thickness min 120mm* Solid shafts, shafts made of concrete blocks, hollow masonry units, bricks – wall thickness min 120mm**** Solid walls, walls made of concrete blocks, hollow masonry units, bricks – wall thickness min 120mm*** Lightweight shaft - wall thickness min 125mm****		
Release and control mechanisms	Fire protection ducts according to EN 1366-8 or EN 1366-9 with equal or less fire resistance** Electric actuators voltage: 24V and 230V		

Installation	Type of assembly	Classification	Partition thickness
	Lightweight walls of drywall Lightweight shafts of drywall with boards	EI 120 ($v_{ew} i \leftrightarrow o$) S1500 C _{10,000} AA multi EI 120 ($v_{edw} i \leftrightarrow o$) S1000 C _{10,000} AA multi	min. 125mm
	Rigid walls made of concrete blocks, hollow masonry units, bricks Rigid shafts made of concrete blocks, hollow masonry units, bricks	EI 120 ($v_{ew} i \leftrightarrow o$) S1500 C _{10,000} AA multi EI 120 ($v_{edw} i \leftrightarrow o$) S1000 C _{10,000} AA multi	min. 120mm
	Solid walls Solid shafts	EI 120 ($v_{ew} i \leftrightarrow o$) S1500 C _{10,000} AA multi EI 120 ($v_{edw} i \leftrightarrow o$) S1000 C _{10,000} AA multi	min. 120mm

Installation	Type of assembly	Classification	Partition thickness
	Smoke extraction ducts according to EN 1366-8 or EN 1366-9	EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi	-
	Smoke extraction ducts according to EN 1366-8 or EN 1366-9	EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi	-
	Smoke extraction ducts according to EN 1366-8 or EN 1366-9	EI 120 ($h_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi	-
	Smoke extraction ducts according to EN 1366-8 or EN 1366-9	EI 120 ($h_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi	-
	Rigid walls made of concrete blocks, hollow masonry units, bricks	EI 120 ($v_{ew} i \leftrightarrow o$) S1000 C _{10.000} AA multi EI 60 ($v_{ew} i \leftrightarrow o$) S1500 C _{10.000} AA multi	min. 120mm

	Solid walls	EI 120 ($v_{ew} i \leftrightarrow o$) S1000 C_{10.000} AA multi EI 60 ($v_{ew} i \leftrightarrow o$) S1500C_{10.000} AA multi	min. 120mm
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Certified installation of the damper with attached masking grilles or grilles at the end of the installation

Release and control mechanisms	
	Actuators for smoke control dampers powered by 24V and 230V

The performance of the product identified above is in conformity with the set of declared performance/s (point 7). This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Gdańsk, 01.07.2025


Tomasz Kobyliński
KIEROWNIK ZAKŁADU PRODUKCJI
SYSTEMÓW WENTYLACJI POŻAROWEJ
Tomasz Kobyliński

Rev. 12