

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↔o) S1500C_{10 000}AAmulti

EI 120 (V_{ed} h_{od} i↔o) S1000C_{10 000}AAmulti

EI 120 (V_{ew} i↔o) S1000C_{10 000}AAmulti

EI 60 (V_{ew} i↔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 SA, ul. Grzegorza z Sanoka 2, 80-408 Gdańsk, Production Site Ul. Kwarцова 3a, 83-031 Ciepłowo, 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.

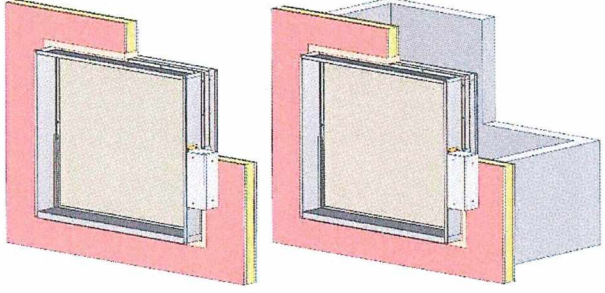
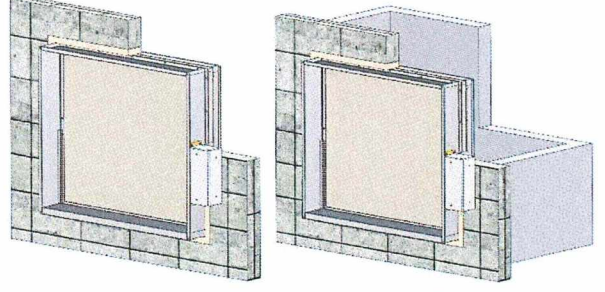
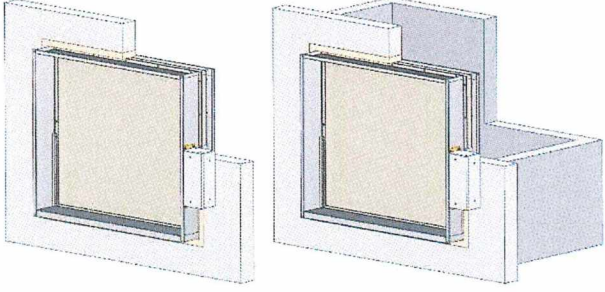
Certificate of Constancy of Performance: 1396-CPR-0178

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

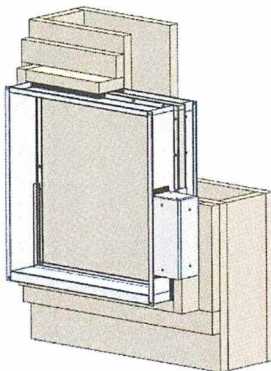
8. Additional properties:

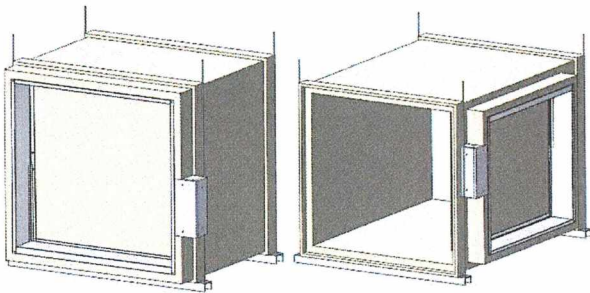
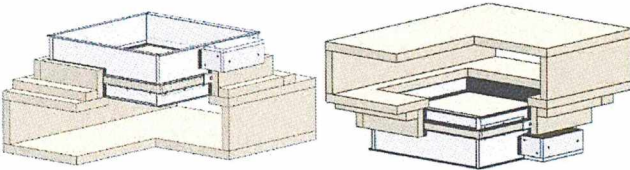
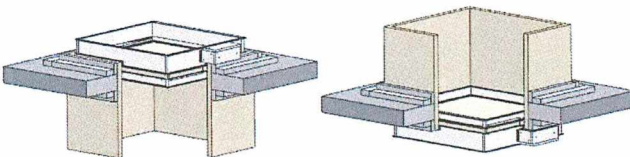
Additional characteristics	EN 12101-8:2011	Performance	Result
Vertical / horizontal axis of rotation	-	Yes	-
Fire resistance classification	4.4.3	EI 120 (v _{ew} i↔o) S1500C _{10.000} AAmulti* EI 120 (v _{ed} h _{od} i↔o) S1000C _{10.000} AAmulti** EI 120 (v _{ew} i↔o) S1000C _{10.000} AAmulti*** EI 60 (v _{ew} i↔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.***		
Insulation	Lightweight walls / shaft - wall thickness min 125mm* Rigid walls/ shafts made of concrete blocks, hollow masonry units, prefabricated boards, masonry walls/ shafts: 120mm***		
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 / shafts of drywall	EI 120 (v _{ew} i↔o) S1500 C _{10.000} AA multi	min. 125mm
	Rigid walls / shafts of blocks	EI 120 (v _{ew} i↔o) S1500 C _{10.000} AA multi	min. 125mm
	Solid walls/ shafts	EI 120 (v _{ew} i↔o) S1500 C _{10.000} AA multi	min. 125mm

Systemy zabezpieczeń przeciwpożarowych
Fire protection systems

„MERCOR” S.A.
ul. Grzegorza z Sanoka 2, 80-408 GDAŃSK, Polska
tel. (+48 58) 341 42 45, fax (+48 58) 341 39 85
e-mail: mercor@mercor.com.pl
www.mercor.com.pl

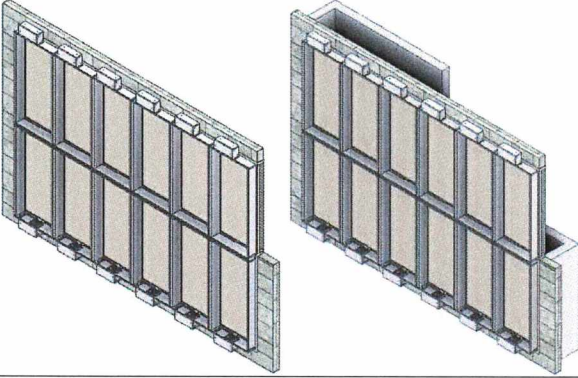
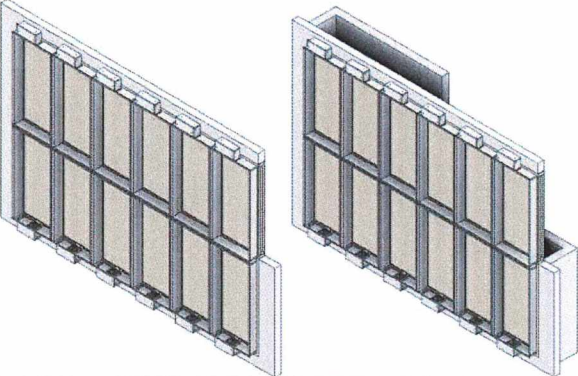
	<p>Smoke extraction ducts according to EN 1366-8 or EN 1366-9</p>	<p>EI 120 (V_{ed} i↔o) S1000 C_{10,000} AA multi</p>	<p>-</p>
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Installation	Type of assembly	Classification	Partition thickness
	<p>Smoke extraction ducts according to EN 1366-8 or EN 1366-9</p>	<p>EI 120 (V_{ed} i↔o) S1000 C_{10,000} AA multi</p>	<p>-</p>
	<p>Smoke extraction ducts according to EN 1366-8 or EN 1366-9</p>	<p>EI 120 (h_{od} i↔o) S1000 C_{10,000} AA multi</p>	<p>-</p>
	<p>Smoke extraction ducts according to EN 1366-8 or EN 1366-9</p>	<p>EI 120 (h_{od} i↔o) S1000 C_{10,000} AA multi</p>	<p>-</p>

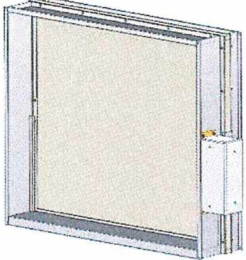
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Systemy zabezpieczeń przeciwpożarowych
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ul. Grzegorza z Sanoka 2, 80-408 GDAŃSK, Polska
tel. (+48 58) 341 42 45, fax (+48 58) 341 39 85
e-mail: mercor@mercor.com.pl
www.mercor.com.pl

	<p>Rigid walls / shafts of blocks</p>	<p>EI 120 (v_{ew} i↔o) S1000 C_{10.000} AA multi</p>	<p>min. 120mm</p>
	<p>Solid walls/ shafts</p>	<p>EI 120 (v_{ew} i↔o) S1000 C_{10.000} AA multi</p>	<p>min. 120mm</p>

Certified installation with attached masking grilles, at the end of the installation or fireproof ducts.

Release and control mechanisms	
	<p>Actuators for smoke control dampers powered by 24V and 230V</p>

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, 29.11.2022


Tomasz Kobyliński
KIEROWNIK ZAKŁADU PRODUKCJI
SYSTEMÓW WENTYLACJI POŻAROWEJ

Tomasz Kobyliński

Rev. 9

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