

## DECLARATION OF PERFORMANCE NO. 010-05-CPR-2016

### 1. Unique identification code of the product type:

Smoke control damper type mcr WIP PRO/ V used in single and multi compartment smoke and heat control systems, with a fire resistance classification according EN 13501-4:2016

EI 120 (v<sub>ew</sub> i ↔ o) S1000 C<sub>10.000</sub> AA multi

EI 120 (v<sub>ed</sub> h<sub>od</sub> i ↔ o) S1000 C<sub>10.000</sub> AA multi

EI 120 (v<sub>ew</sub> i → o) S1500 C<sub>10.000</sub> AA multi

EI 90 (v<sub>ew</sub> i ↔ o) S1500 C<sub>10.000</sub> AA multi

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

Smoke control damper mcr WIP PRO/ V 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 control single and multiple fire zones.

### 3. Manufacturer:

„MERCOR” S.A., 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, Poland.

Certificate of Constancy of Performance: 2434-CPR-0014.

### 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	Pass
Fire resistance – insulation	4.1.1 b)	EI120	Pass
Fire resistance – smoke leakage	4.1.1 c)	EIS120	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

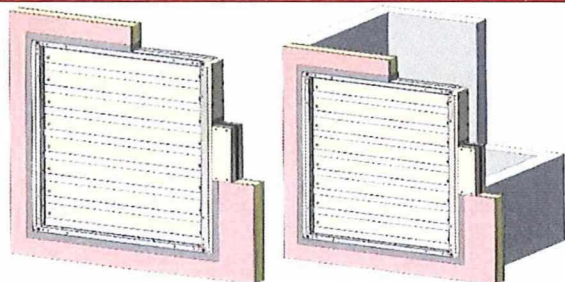
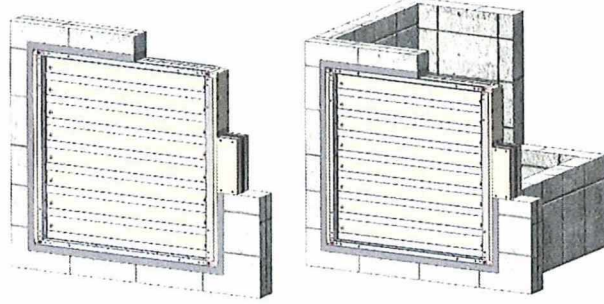
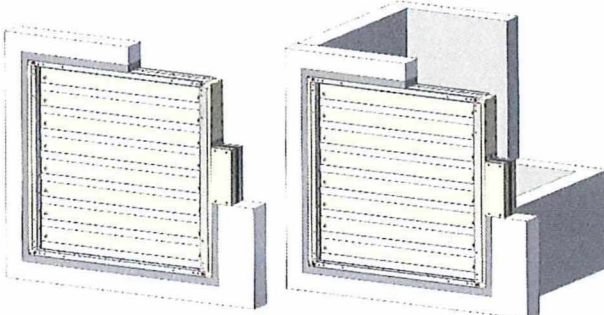
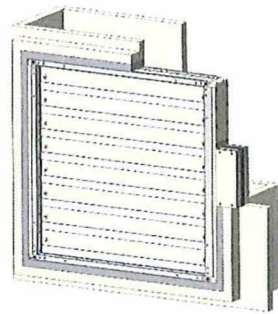
### 8. Additional properties:

Additional characteristics	EN 12101-8:2011	Performance	Result
Fire resistance classification	4.4.3	EI 120 (v <sub>ew</sub> i ↔ o) S1000 C <sub>10.000</sub> AA multi EI 120 (v <sub>ed</sub> h <sub>od</sub> i ↔ o) S1000 C <sub>10.000</sub> AA multi EI 120 (v <sub>ew</sub> i → o) S1500 C <sub>10.000</sub> AA multi EI 90 (v <sub>ew</sub> i ↔ o) S1500 C <sub>10.000</sub> AA multi	Pass
Size range	Horizontal axis rectangular damper: from 110x263 to 900x1250 [mm] for vew Vertical axis rectangular damper: from 110x263 to 1250x1250 [mm] for ved, hod Horizontal axis rectangular damper: from 110x263 to 1250x1250 [mm] for ved, hod A modul of dampers consisting of a maximum of 4 dampers with dimensions of a single damper with a horizontal axis of rotation: 110x270 to 1060x1025 [mm] and/ or a vertical axis of rotation: 270x110 to 960x1125 [mm]		
Installation	lightweight walls/shafts made of boards – min. wall thickness 125 mm. Solid walls/shafts made of concrete blocks, hollow masonry units, masonry with all fire resistance equal to or greater than the resistance required for the damper		
Release and control mechanisms	Fire protection ducts according to EN 1366-8 or EN 1366-9 with equal or less fire resistance Actuators for 24V and 230V		

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**Systemy zabezpieczeń przeciwpożarowych**  
**Fire protection systems**

„MERCOR” S.A.  
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e-mail: mercor@mercor.com.pl  
www.mercor.com.pl

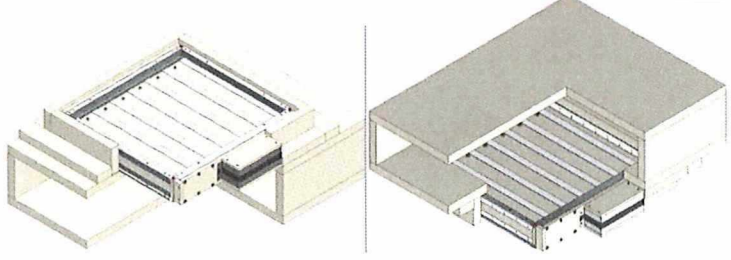
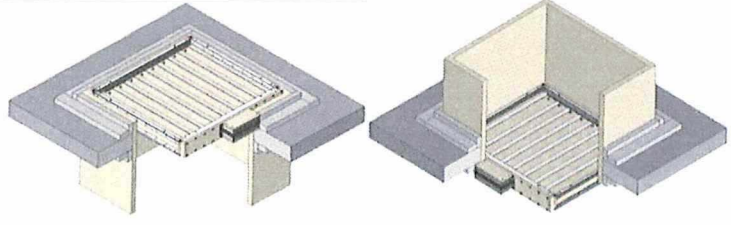
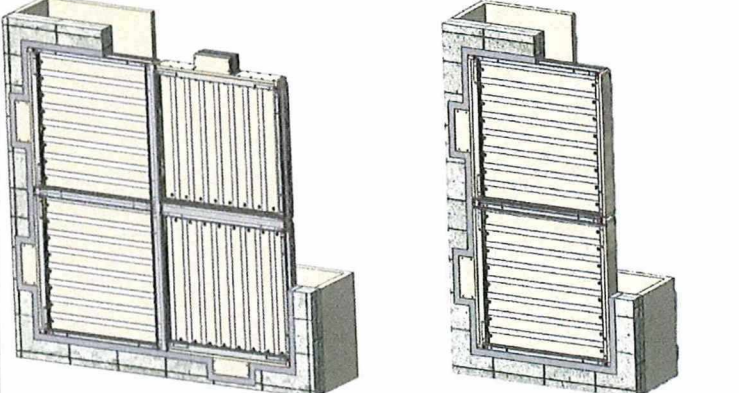
Installation	Type of assembly	Classification	Partition thickness
	Lightweight walls / shafts of drywall	EI 120 (v <sub>ew</sub> i↔0) S1000 C <sub>10,000</sub> AA multi or EI 120 (v <sub>ed</sub> i↔0) S1000 C <sub>10,000</sub> AA multi	min. 125mm
	Rigid walls / shafts of blocks	EI 120 (v <sub>ew</sub> i↔0) S1000 C <sub>10,000</sub> AA multi or EI 120 (v <sub>ed</sub> i↔0) S1000 C <sub>10,000</sub> AA multi	min. 125mm
	Solid walls/ shafts	EI 120 (v <sub>ew</sub> i↔0) S1000 C <sub>10,000</sub> AA multi or EI 120 (v <sub>ed</sub> i↔0) S1000 C <sub>10,000</sub> AA multi	min. 125mm
	Smoke extraction ducts according to EN1366-8 or EN1366-9	EI 120 (v <sub>ed</sub> i↔0) S1000 C <sub>10,000</sub> AA multi	-

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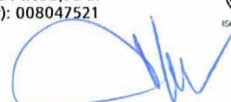
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	<p>Smoke extraction ducts according to EN 1366-8 or EN 1366-9</p>	<p>EI 120 (<math>v_{ed} i \leftrightarrow o</math>) S1000 C<sub>10.000</sub> AA multi</p>	<p>-</p>
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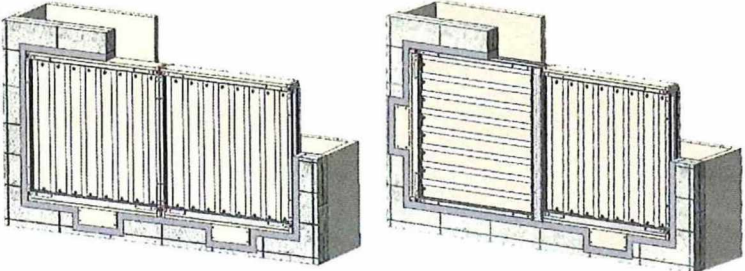
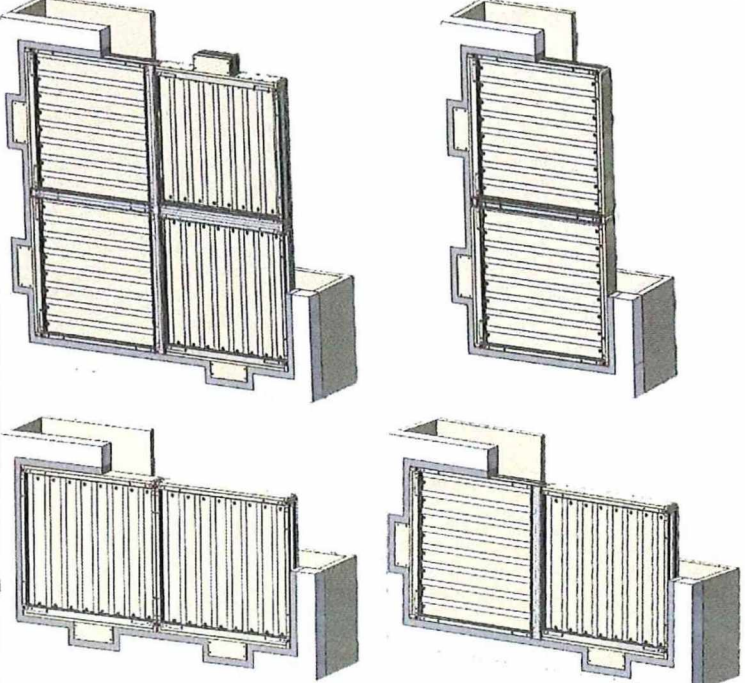
Installation	Type of assembly	Classification	Partition thickness
	<p>Smoke extraction ducts according to EN1366-8 or EN1366-9</p>	<p>EI 120 (<math>h_{od} i \leftrightarrow o</math>) S1000 C<sub>10.000</sub> AA multi</p>	<p>-</p>
	<p>Smoke extraction ducts according to EN 1366-8 or EN 1366-9</p>	<p>EI 120 (<math>h_{od} i \leftrightarrow o</math>) S1000 C<sub>10.000</sub> AA multi</p>	<p>-</p>
	<p>Rigid walls / shafts of blocks</p>	<p>EI 120 (<math>v_{ew} i \rightarrow o</math>) S1500 C<sub>10.000</sub> AA multi EI 90 (<math>v_{ew} i \leftrightarrow o</math>) S1500 C<sub>10.000</sub> AA multi</p>	<p>min. 125mm</p>

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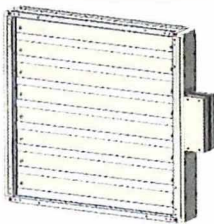
			
	<p>Solid walls/ shafts</p>	<p>EI 120 (V<sub>ew</sub> i→o) S1500 C<sub>10.000</sub> AA multi  EI 90 (V<sub>ew</sub> i↔o) S1500 C<sub>10.000</sub> AA multi</p>	<p>min. 125mm</p>

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

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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, 10.01.2024

  
Tomasz Kobyliński  
KIEROWNIK ZAKŁADU PRODUKCJI  
SYSTEMÓW WENTYLACJI POŻAROWEJ  
Tomasz Kobyliński

Rev. 11

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