

DECLARATION OF PERFORMANCE
NO. 01-06-CPR-2024**1. Unique identification code of the product type:**

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

EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C_{10.000} AA multi

EI 90 ($v_{ed} i \leftrightarrow o$) S1000 C_{10.000} AA multi

EI 60 ($v_{ed} i \leftrightarrow o$) S1000 C_{10.000} AA multi

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

Smoke control damper mcr WIP PROV 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 Ciepłewo 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-0374.

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	<60s	Pass
Operational reliability - cycling	4.4.2.2	<120s	Pass
Fire resistance – integrity	4.1.1 a)	E120, E90, E60	Pass
Fire resistance – insulation	4.1.1 b)	EI120, EI90, EI60	Pass
Fire resistance – smoke leakage	4.1.1 c)	EIS120, EIS90, ESI60	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, <120s	Pass

8. Additional properties:

Additional characteristics	EN 12101-8:2011	Performance	Result
Fire resistance classification	4.4.3	EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi EI 90 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi EI 60 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi	Pass
Size range	Horizontal axis rectangular damper: from 110x236 to 1200x2300 [mm]		
Installation	Shafts/ducts: made of boards, concrete or brick - installation on a horizontal section of the duct made in accordance with EN 1366-8; assembly details in the manual		
	Fire protection ducts according to EN 1366-8 or EN 1366-9, assembly details in the technical manual instruction Ventilation ducts according to EN 1366-1		
Release and control mechanisms	Actuators for 24V and 230V		
Standard damper blade position	open or closed		

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Systemy zabezpieczeń przeciwpożarowych Fire protection systems

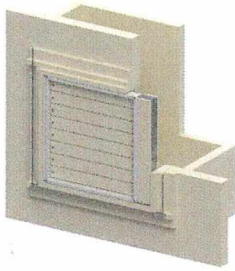
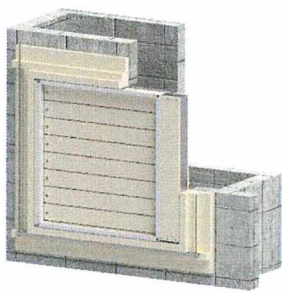
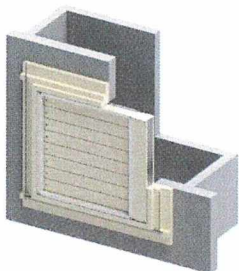
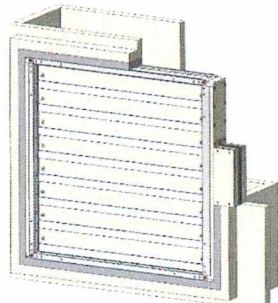
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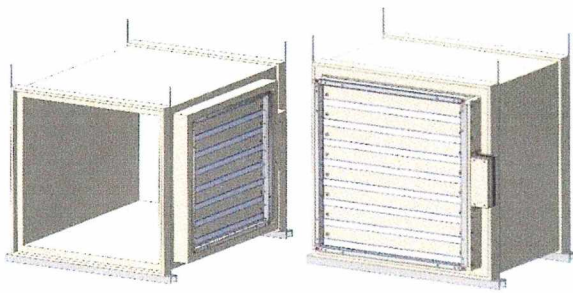
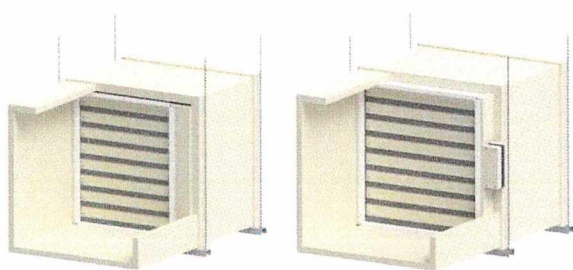
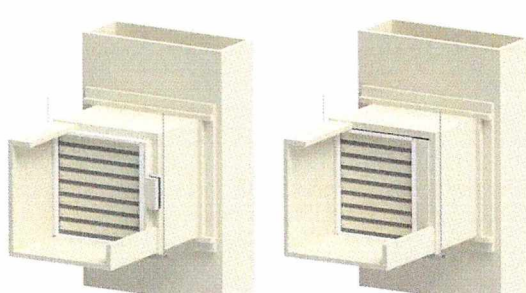
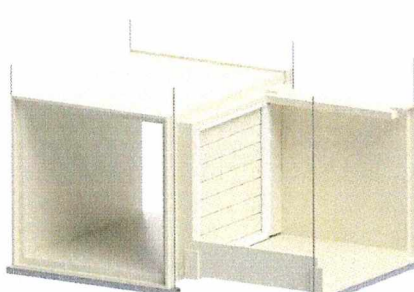
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Installation	Type of assembly	Classification	Thickness of the duct wall
	Shafts of boards	EI 120 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper with grille EI 90 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper without grille EI 60 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper without grille	min. 50mm
	Shafts made of blocks, bricks or hollow bricks	EI 120 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper with grille EI 90 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper without grille EI 60 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper without grille	min. 50mm
	Solid shafts	EI 120 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper with grille EI 90 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper without grille EI 60 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper without grille	min. 50mm
	Vertical Smoke extraction ducts according to EN1366-8 or EN1366-9	EI 120 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper with grille EI 90 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper without grille EI 60 (v _{ed} i↔o) S1000 C _{10.000} AA multi Damper without grille	min. 50mm

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Systemy zabezpieczeń przeciwpożarowych Fire protection systems

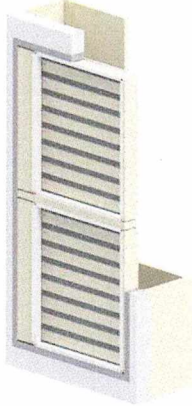
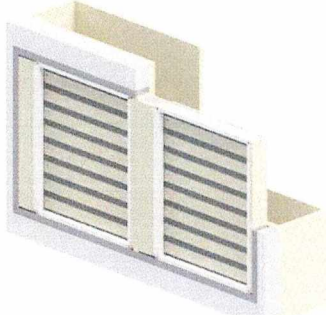
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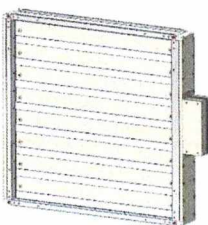
Installation	Type of assembly	Classification	Thickness of the duct wall
	Horizontal Smoke extraction ducts according to EN 1366-8 or EN 1366-9	EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper with grille EI 90 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper without grille EI 60 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper without grille	min. 50mm
	Horizontal Smoke extraction ducts according to EN 1366-8 or EN 1366-9 Installation between sections	EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper with grille EI 90 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper without grille EI 60 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper without grille	min 50mm
	Vertical 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 Damper with grille EI 90 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper without grille EI 60 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper without grille	min 50mm
	Horizontal 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 Damper with grille EI 90 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper without grille EI 60 ($v_{ed} i \leftrightarrow o$) S1000 C _{10.000} AA multi Damper without grille	min 50mm

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Systemy zabezpieczeń przeciwpożarowych Fire protection systems

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Installation	Type of assembly	Classification	Thickness of the duct wall
	Damper over/under damper Vertical Smoke extraction ducts according to EN 1366-8 or EN 1366-9 Shafts made of blocks, bricks or hollow bricks Solid shafts	EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C _{10,000} AA multi Damper with grille EI 90 ($v_{ed} i \leftrightarrow o$) S1000 C _{10,000} AA multi Damper without grille EI 60 ($v_{ed} i \leftrightarrow o$) S1000 C _{10,000} AA multi Damper without grille	min 50mm
	Damper next to damper Vertical Smoke extraction ducts according to EN 1366-8 or EN 1366-9 Shafts made of blocks, bricks or hollow bricks Solid shafts	EI EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C _{10,000} AA multi Damper with grille EI 90 ($v_{ed} i \leftrightarrow o$) S1000 C _{10,000} AA multi Damper without grille EI 60 ($v_{ed} i \leftrightarrow o$) S1000 C _{10,000} AA multi Damper without grille	min 50mm

Release and control mechanisms	
	Actuators for smoke control dampers (no spring) 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, 20.08.2024

 **mercor**
Tomasz Kobyliński
KIEROWNIK ZAKŁADU PRODUKCJI
SYSTEMÓW WENTYLACJI POŻAROWEJ
Tomasz Kobyliński

Rev. 3

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