

DECLARATION OF PERFORMANCE NO. 001-05-CPR-2021

1. Unique identification code of the product type:

Smoke control dampers type mcr FID B used in single and multi compartment smoke and heat control systems, with a fire resistance classification according EN 13501-4:2016

EI 120 (v_{ed} h_{od} $i \leftrightarrow o$) S1500C_{10 000} MAMulti

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

Smoke control dampers type mcr FID B 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 Light&Vent Sp. z o.o., ul. Grzegorza z Sanoka 2, 80-408 Gdańsk, Production Site Ul. Kwarцова 3a, 83-031 Cieplewo, Poland 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.

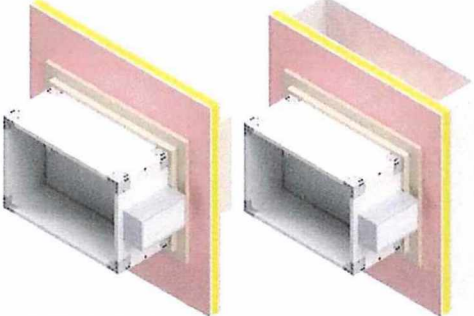
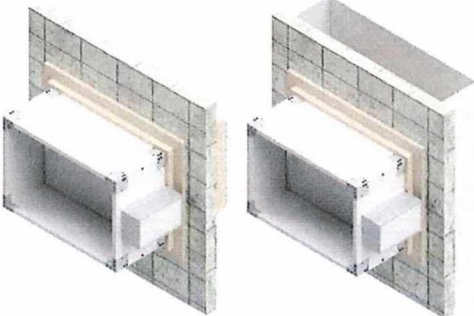
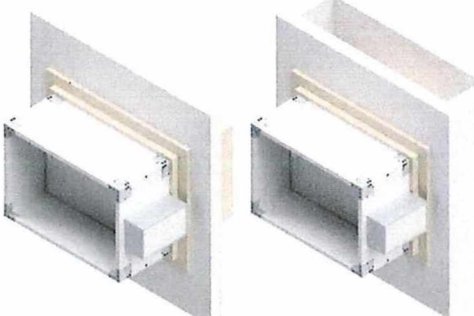
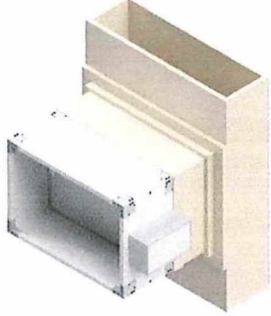
Certificate of Constancy of Performance: 2434-CPR-0031.

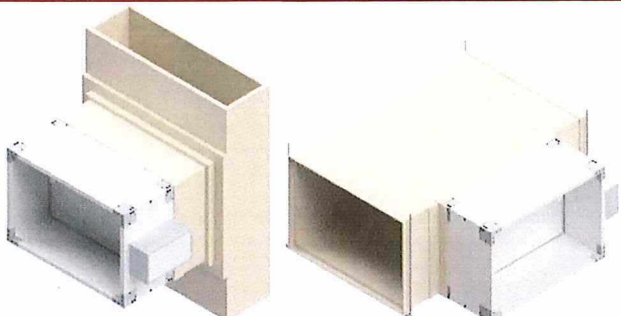
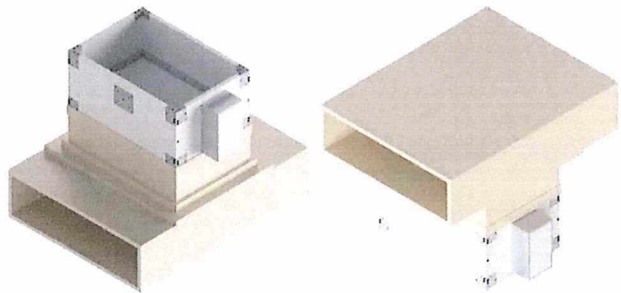
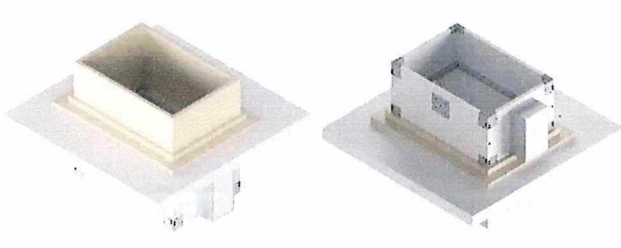
7. Declared performance:

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

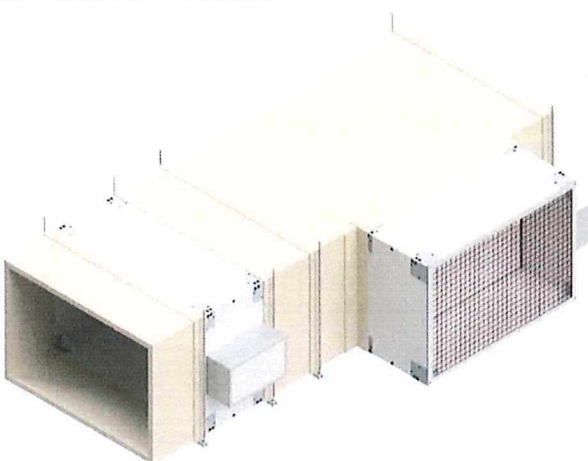
8. Additional properties:

Additional characteristics	EN 12101-8:2011	Performance	Result
Fire resistance classification	4.4.3	EI 120 (v_{ed} h_{od} $i \leftrightarrow o$) S1500C _{10 000} MAMulti	Pass
Size range	Rectangular damper: 200x200 to 1200x800 [mm]		
Installation	Out of flexible walls / shafts made of boards, rigid walls / shafts made of blocks, bricks, hollow bricks, masonry, prefabricated panels		
	Fire protection ducts according to EN 1366-8 or EN 1366-9 with equal or less fire resistance**		
Release and control mechanisms	Electric actuators voltage: 24V and 230V		

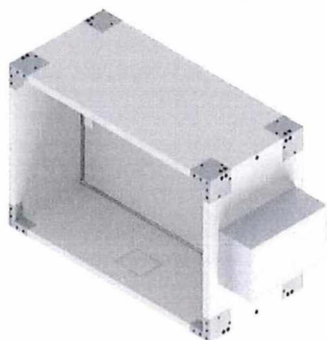
Installation	Type of assembly	Classification	Partition thickness
	Out of flexible walls / shafts of drywall	EI 120 ($v_{ed} i \leftrightarrow o$) S1500 C _{10.000} MA multi	NA
	Out of rigid walls / shafts of blocks	EI 120 ($v_{ed} i \leftrightarrow o$) S1500 C _{10.000} MA multi	NA
	Out of solid walls / shafts	EI 120 ($v_{ed} i \leftrightarrow o$) S1500 C _{10.000} MA multi	NA
	Smoke extraction ducts according to EN 1366-8 or EN 1366-9	EI 120 ($v_{ed} i \leftrightarrow o$) S1500 C _{10.000} MA multi	-

Installation	Type of assembly	Classification	Partition thickness
	Smoke extraction ducts according to EN 1366-8 or EN 1366-9	EI 120 ($v_{ed} i \leftrightarrow o$) S1500 C _{10,000} MA multi	-
	Smoke extraction ducts according to EN 1366-8 or EN 1366-9	EI 120 ($h_{od} i \leftrightarrow o$) S1500 C _{10,000} MA multi	-
	Out of rigid floor	EI 120 ($h_{od} i \leftrightarrow o$) S1500 C _{10,000} MA multi	NA

NA – not applicable

Possibility of connecting devices	
	Certified installation with attached cover grilles, at the end of the installation or smoke extraction ducts.

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.

 **merc**cor
Tomasz Kobyliński
KIEROWNIK ZAKŁADU PRODUKCJI
SYSTEMÓW WENTYLACJI POŻAROWEJ

Gdańsk, 01.07.2025

Tomasz Kobyliński

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