



Reg. No. 041/P-007

NOTIFIED BODY 1396  
Osloboditeľov 282, 059 35 Batizovce, Slovakia  
Tel.+421 52 285 1611, www.fires.sk



## Certificate of constancy of performance

**1396-CPR-0128**

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product

### **Natural smoke and heat exhaust ventilator, type mcr OSO THERM**

a device designed to move smoke and hot gases out of a construction works naturally under conditions of fire, used in compliance with Assessment and verification of constancy of performance No. C1396/17/0013/4003/SC (issued by FIRES, s.r.o., Notified Body 1396 on 25. 07. 2017), amended by an actual report of continuous surveillance,

placed on the market under the name or trade mark of

**„MERCOR“ S.A.**  
**ul. Grzegorza z Sanoka 2, 80-408 Gdańsk, Poland**

and produced in the manufacturing plant

**“MERCOR” S.A.**  
**ul. Kvarcowa 3A, Ciepłowo, 83-031 Łęgowo, Poland.**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 12101-2: 2003**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

**constancy of performance of the construction product.**

This certificate was first issued on 25. 07. 2017 and will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

In Batizovce on 13. 07. 2021



Ing. Henrieta Lapková  
Head of Product Certification Body

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FIRES 136a/C-31/01/2017-E

## Annex I to the Certificate of constancy of performance 1396-CPR-0128

Dimensions of product	Width	Height
	from 800 mm to 2700 mm	from 800 mm to 2200 mm

### Product variants

- with regard to the direction of opening:
  - NSHEV with opening inwards;
  - NSHEV with opening outwards;
- with regard to the type of electric actuator(s) fitted to the NSHEV:
  - type MCR Wxxx/ Gxxx or MCR Sxxx/ Sxxx (24 VDC) produced by Grasl Pneumatic-Mechanik GmbH;
  - type HCV (24/36/48 VDC), HCVA (230 VAC) produced by Actulux A/S;
  - type KR10B.1 (24 VDC) produced by Grasl Pneumatic-Mechanik GmbH;
  - type K2 (230 VAC) produced by Grasl Pneumatic-Mechanik GmbH.

### Product classification according to EN 12101-2: 2003

Reliability classification	Re 1000. Dual purpose ventilator. Note: Besides 1000 cycles of opening in fire open position, product successfully passed 10 000 cycles of opening in ventilation position. Therefore the product can be used as a dual purpose ventilator i.e. natural smoke and heat exhaust ventilator which has provision to allow its use for day to day ventilation.
Snow load classification	SL 0
Low ambient temperature classification	T (00)
Wind load classification	from WL 1000 to WL 1500
Resistance to heat classification	B 300
Aerodynamic free area	opening outwards: from 0,06 m <sup>2</sup> to 1,99 m <sup>2</sup> opening inwards: from 0,07 m <sup>2</sup> to 2,25 m <sup>2</sup>

Reaction to fire classification acc. to EN 13501-1: 2018: no performance declared.

### Conditions of product use

- Product is a top or bottom hung window mounted in standard rigid wall or integrated in glazed façade with an inclination  $90^{\circ} \pm 10^{\circ}$  relative to the horizontal. If the product is integrated in glazed façade, this façade has to be made of aluminum system profiles (i.e. MC-Wall system by Aliplast Sp. z o.o. or similar), that satisfy the minimum required strength and stiffness conditions, for the given dimensions and weight of the window, calculated according to the façade system provider's manual.
- Fire open position of product: from  $10^{\circ}$  to  $92,3^{\circ}$ .
- Ventilation position of NSHEV is limited by time of window's opening which shall be equal to or less than 20 seconds.
- Other conditions of product use are defined in the Assessment and verification of constancy of performance No. C1396/17/0013/4003/SC (issued by FIRES, s.r.o., Notified Body 1396 on 25. 07. 2017), amended by an actual report of continuous surveillance.

Batizovce, 13. 07. 2021



  
Ing. Henrieta Lapková  
Head of Product Certification Body