

NATIONAL DECLARATION OF PERFORMANCE

No. 016/02/22

1. Name and trade name of the construction product:

Dampers (air flow rate controllers) ALNOR for constant air flow (CAV), circular cross-section and nominal diameters: 125, 160, 200, 250, 315 mm.

Dampers (air flow rate controllers) ALNOR for variable air flow (VAV), circular cross-section and nominal diameters: 100, 125, 160, 200, 250, 315, 400, 500, 630 and with rectangular cross-section, dimensions of the sides: 100-1000 mm.

2. Designation of construction product type:

Air flow rate controllers for constant air flow (CAV) made of galvanized steel: RACAV.

Air flow rate controllers for constant air flow (CAV) made of corrosion- resistant steel: RACAV-K.

Air flow rate controllers for variable air flow (VAV) made of galvanized steel: RAVAV, RAVAV-Q.

Air flow rate controllers for variable air flow (VAV) made of corrosion- resistant steel: RAVAV-K, RAVAV-Q-K.

Air flow rate controllers for constant air flow (CAV) and variable air flow (VAV) with mineral wool and galvanized or corrosion- resistant steel cladding: RACAV-I, RAVAV-I, RACAV-K-I, RAVAV-K-I.

3. Intended use(s):

Intended to be used for constant and variable volume flow air in ventilation and/or air conditioning systems inside buildings, including residential, collective residence and public utility buildings. They can also be used in warehouse, industrial and farm buildings.

4. Manufacturer's name and registered office address and place of production:

**Alnor Systemy Wentylacji Sp. z o.o.
00-719 Warsaw ul. Zwierzyniecka 8b, POLAND
Tel.: + 48 22 737 40 00, Fax.: + 48 22 737 40 04**

**Production place:
05-522 Wola Mrokwoska, Aleja Krakowska 10, POLAND**

5. Authorized representative's name and registered office address, if any:

Not applicable.

6. The national system used to assess and verify the constancy of performance:

Conformity assessment system: 4

7. National technical specification:

7a. Polish Product Standard: **not applicable.**

Name of the accredited certification body, accreditation number and national certificate number or

name of the accredited laboratory/laboratories and accreditation number): **not applicable.**

7b. National technical assessment: **ITB-KOT-2020/1580 issue no 1**

Technical assessment unit/National technical assessment unit:

Instytut Techniki Budowlanej ul. Filtrowa 1, 00-611 Warsaw

8. Declared performance

Essential characteristics of the product for the intended use or uses	Declared performance	Comments
Dimensions	Dimensions and tolerance compatible	According to PN-EN 1506:2007 According to PN-EN 1505:2001.
Air flow control characteristics	Determined according to PN-EN 12589:2002	
Tightness of damper housing	Class C According to PN-EN 1751:2014	
Tightness in closed position, closing dampers	RAVAV(-K) – class 4 According to PN-EN 1751:2014	
Regulation accuracy depending on the distance from the disturbing element	Determined according to PN-EN 12589:2002	
Durability	Corrosion- resistant steel 1.4301/304, 1.4404/316L	According to PN-EN 10088-1:2014,
	Aluminum grade: EN AW-1050A stan H24	According to PN-EN 573-3:2014, According to PN-EN 515:2017,
	Protective anti-corrosion coating: Mass of zinc coating 275 g/m ² Nominal coat thickness 20µm Durability anticorrosive coat: C1/20years C2/20y C3/10y	According to PN-EN 10346:2015 and PN-EN 9223:2012

9. The performance of the product specified above is in accordance with all declared performance properties as listed in Section 8. This national declaration of performance is issued in accordance with the Act on construction products of 16 April 2004, under the sole responsibility of the manufacturer.

Signed for and on behalf of the manufacturer by ((name and surname, position))

Wola Mrokwoska, 23.11.2022

(issue place and date)

Piotr Grzechowiak
Testing and certification coordinator

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(signature)