



Alnor Systemy Wentylacji Sp. z o.o.,  
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## DECLARATION OF PERFORMANCE No. 006/01/2017

1. The unique identification code of the product-type: Regulation of the Council of Europe No. 305/2011, Annex IV, item 35: Fire stopping, fire sealing and fire protective products. Fire retardant products. **FDA-12 shut-off fire damper**
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4). **Individual serial number for each damper**
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**The FDA-12 is intended for use in household ventilation systems (general ventilation), at places where the ventilation system passes through building partitions with specific fire resistance. Its function is to prevent fire and fumes spreading through ventilation systems, via maintenance of fire integrity criteria and/or fire insulation and/or smoke leakage.**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):



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phone no.: + 48 22 737 40 00, fax.: + 48 22 737 40 04

Manufacturing plant:  
05-552 Wola Mrokwoska, Aleja Krakowska 10

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): **not applicable**
6. The system or systems of assessment and verification of constancy of performance of the construction product, as set out in Annex V: **System of assessment: 1**
7. The name and identification number of the notified body: **INSTITUTE OF CONSTRUCTION TECHNOLOGY CERTIFICATION CENTRE ul. FILTROWA 1, 00-611 WARSZAWA NOTIFIED BODY NO. 1488**

**Within the framework of system 1, the body has carried out:**

- **determination of the product-type on the basis of type testing and descriptive documentation of the product**
- **initial inspection of factory and of factory production control**
- **continuous surveillance and assessment of factory production control and issued certificate of constancy of performance No. 1488-CPR-0562/W**

8. In the case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: **not applicable**

9. Declared performance:

The list of the essential characteristics and performance of the construction product according to EN 15650:2010

The essential characteristics and performance of the product	EN 15650:2010	Mandatory levels and/or classes	Assessment
	Chapter		
Nominal operating conditions/efficiency			
Sensing element load bearing capacity *	4.2.1.2.3	280 N	fulfilled
Sensing element response temperature *	4.2.1.2.2	≤ 105 °C	fulfilled
Response delay (response time)			
Closure time	4.2.1.3	-	fulfilled
Operational reliability			
Cycling	4.3.1 a)	-	fulfilled
Fire resistance			
Fire integrity	4.1.1 a)	E120	fulfilled
Fire insulation	4.1.1 b)	EI120	fulfilled
Smoke leakage	4.1.1 c)	EIS120	fulfilled
Mechanical stability (under E)	4.1.1 a)	-	fulfilled
Maintenance of the cross section (under E)	4.1.1 a)	-	fulfilled
Durability of response delay			
Sensing element response to temperature and load bearing capacity	4.2.1.2.2 4.2.1.2.3	280 N ≤ 105 °C	fulfilled
Durability of operational reliability			
Opening and closing cycle tests	4.3.3.2	-	fulfilled

\*applies to the Alnor 72°C thermal fuse, with nominal operating temperature 86.6 ° C, manufacturer: Alnor

General product identification, scope and conditions of use

Fire resistance class according to PN-EN 13501-4+A1:2010	EI 120 (ve ho i↔o) S Testing at negative pressure of 300 Pa	
Durability of operational reliability	50 cycles – FDA-12-T damper 10 000 cycles – FDA-12-M damper	
Shapes and dimensions	round shape with the following dimensions:	
	diameter [mm]	100, 125, 140, 150, 160, 180, 200, 224, 250, 280, 315

Closing mechanism		<p>FDA-12-T</p> <ul style="list-style-type: none"> <li>• spring mechanism with the thermal fuse, including the possibility of mounting limit switches to signal the position of the blade</li> </ul> <p>FDA-12-M</p> <ul style="list-style-type: none"> <li>• BLF24-T, BLF230-T, BFL24-T, BFL230-T actuator with the electrothermic tripping device, manufacturer: Belimo</li> </ul>
Building partitions	vertical	<ul style="list-style-type: none"> <li>• concrete walls with the thickness of no less than 115 mm,</li> <li>• brick walls made of solid bricks or cellular concrete blocks, with the thickness of no less than 115 mm,</li> <li>• light-weight walls made of gypsum plasterboards on a steel grate, with the total thickness of no less than 125 mm and fire resistance class no less than EI 120.</li> </ul>
	horizontal	<ul style="list-style-type: none"> <li>• concrete ceilings with the thickness of no less than 150 mm,</li> </ul>
Heat-sensitive element		<p>Alnor 72°C thermal fuse, manufacturer: Alnor,</p> <ul style="list-style-type: none"> <li>• BAT72 thermoelectric tripping device with the nominal operation temperature of 72°C, manufacturer: Belimo.</li> </ul>
Minimum distance between the dampers installed in the ventilation systems running in parallel		200 mm
Minimum distance between the damper and the building partition (wall or ceiling)		75 mm
Salt mist cyclic test		not specified
Technical description		<p>Damper casing: made of galvanised sheet metal with the following thicknesses:</p> <ul style="list-style-type: none"> <li>• 0.5 mm in the case of dampers with Ø 100 mm in diameter</li> <li>• 0.7 mm in the case of dampers with Ø 125 ÷ 200 mm in diameter</li> <li>• 0.9 mm in the case of dampers with Ø 224 ÷ 315 mm in diameter</li> </ul> <p>The length of the casing is 204 mm in the case of FDA-12-T dampers and 320 mm in the case of FDA-12-M dampers; the casing on both sides is finished with slide-in joints; in the central part, at the place where the shut-off blade is set, the casing has a 20 mm perforation; from the outside, the perforation is covered by the PVC tape; on both ends of the casing, from the outside, there are seals.</p>

	<p>Expanding seals: PROMASEAL-GT, 40 x 1,8 mm section (on the inner surface of the casing, at the place of perforation, around the closed shut-off blade),</p> <p>Shut-off damper blade: made of the calcium-silicate PROMATECT-H board, covered with 0.5 mm galvanised sheet metal on one side; the thickness of the blade is as follows:</p> <ul style="list-style-type: none"> <li>• 20 mm in the case of dampers with Ø 100 ÷ 200 mm in diameter</li> <li>• 25 mm in the case of dampers with Ø 250 ÷ 315 mm in diameter</li> </ul> <p>The blade is mounted inside the casing, on hinges made of galvanised sheet metal, 0.9 mm thick.</p> <p>Seals: EPDM seals for sealing the slide-in joints of the casing and the shut-off blade</p> <p>Axis of damper blade: M5 steel blind rivet nuts</p>
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10. The performance of the product identified above in section 1 and 2 is in conformity with the declared performance under point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in section 4

On behalf of the manufacturer, signed by:

Zbigniew Jabłoński

Production and Maintenance Engineer

.....  
(name and position)

Wola Mrokowska 02.01.2017

.....  
(place and date of issue)

*Z. Jabłoński*  
.....  
(signature)

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