

THE CERTIFICATE OF COMPLIANCE VALIDATES AS FOLLOW:

In compliance with the Efectis Certification Rules: **DAP 21 REV. D - CERTIFICATION RULES FOR APPLICATION OUTSIDE THE EUROPEAN ECONOMIC AREA**, it was established that the fire protective construction product(s):

Name of the manufacturer:	KLIMAOPREMA	Name of the brand:	Fire Damper FD
Factory address/region:	GRADNA 78A 10430 SAMOBOR CROATIA	Model/N°:	FD40

is submitted by the manufacturer to a factory production control, and that EFECTIS France has performed the initial type-testing for the relevant characteristics of this product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of factory production control.

This certificate attests that all provisions concerning the evaluation of the performance are applied, and that the product(s) fulfill(s) all the prescribed requirements set out above.

	TEST REPORT	INSPECTION REPORT	CERTIFICATE OF COMPLIANCE
Number:	FIRES-FR-243-16 AUNE	EFR-17-003410	EFR-1801-0076_18-0
Date of issue:	October 2016	December 2017	July 12th 2018
Date of 1st issue:	-	-	July 12th 2018
Expiry date:	Valid as long as the product, the test standard and the production process are not modified	Valid up to the issuance of the surveillance inspection report (no later than the expiry date of the Certificate)	January 12th 2020

1. DESCRIPTION OF THE PRODUCT

Rectangular fire damper with movable blade:

Dimensions:

- From 200 x 200 mm to 800 x 1500 mm

Fire damper body in galvanized steel or stainless steel :

- Thickness 8/10 mm or 10/10 mm

Blade :

- 3 layers of calcium silicate thickness total thickness 40 mm
- Blade axis: horizontal or vertical

Leak tightness:

- at ambient temperature: Seal in EPDM
- at elevated temperature : intumescent seal

Control motor type BFN-T or BF-T (Belimo) or MICRO or EVO or ExMax-5.10-BF (Schischek) or GNA326.1E/T12 (Siemens)

2. TEST STANDARD

The temperature rise inside the furnace above the ambient temperature has been controlled according to the **standard thermal program** represented by the following function:

$$T = 345 \log_{10} (8t + 1) + 20$$



where :

t = Time (min)

T = Furnace temperature at time t (°C).

3. SPECIFICATION OF TEST SPECIMEN

Test performed on the largest size

- Fire damper mounted superimposed in construction walls made of aerated or reinforced concrete - density 500 kg/m³ and thickness : 100 or 150 mm
- Pressure differential: 500 Pa

4. TEST RESULT

- Fire damper mounted superimposed in a wall made of aerated concrete density 500 kg/m³ and thickness : 100 or 150 mm

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Other declared performances

Nominal activation conditions	Conforme
Sensing element load bearing capacity	Conforme
Sensing element response temperature : Front from the air flow Profil from the air flow	72°C or 95°C
Response delay closure time	Conforme
Closure time	Conforme
Operational reliability	Conforme
Durability of response delay	Conforme
Durability of operational reliability	50 cycles - Conforme
Nominal activation conditions	Conforme

5. NAME AND ADDRESS/REGION OF TEST FACILITIES

FIRES s.r.o. Osloboditelov 282 059 35 Baltizovce - Slovak Republic

6. PRODUCT APPLICATION GUIDE LINE (END USE)

Maximal dimension of the superimposed mounting: 1500 mm x 1 600 mm (lxh)

Signed by delegation of the Technical Certification Director,

Yannick LE TALLEC
Certification Director

The above certificate is valid only when the product is installed in accordance with the 'product application guideline' (End use). To verify the validity of the product, logon to our website www.efectis.com and type in the COMPLIANCE CERTIFICATE NUMBER.