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CERTIFICATE OF CONSTANCY OF PERFORMANCE N° 2822-UKCA-CPR-0055

In compliance with Regulation 2020 N°1359 of The construction Products (EU exit) Regulation 2020, it was established that the construction product:

Product	**Fire Damper**
Reference of the product	**CR60 – CR120**
Placed on the market by or for	**RF TECHNOLOGIES** **Lange Ambachtstraat 40** **9860 Oosterzele** **Belgium**
and produced in the manufacturing plant located in	**Oosterzele, Belgium**

is submitted by the manufacturer to a factory production control, and that the approved certification body EFECTIS UK/Ireland, has performed the initial type-testing for the relevant characteristics of the 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 assessment and verification of constancy of performance and the performance, described in Annex ZA of the standard **BS EN 15650: 2010** under system 1 are applied, and that the product(s) fulfill(s) all the prescribed requirements set out above.

This certificate, first issued on **October 20th 2022**, remains valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product and the manufacturing conditions in the plant are not modified significantly.

This certificate allows the manufacturer, its mandatories or its distributors, stated in the United Kingdom Economic Area, to affix the UKCA marking.

Certificate established at Belfast on: **20/10/2022**

By the Technical Certification director,

Daniel Joyeux
Technical Certification Director

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ANNEX TO THE CERTIFICATE OF CONSTANCY OF PERFORMANCE TO THE STANDARD EN 15650: 2010

Product	**Fire Damper**
Reference of the product	**CR60 – CR120**
Certificate delivered to	**RF TECHNOLOGIES** **Lange Ambachtstraat 40** **9860 Oosterzele** **Belgium**

CLASSIFICATION

FOR CR120:

Working pressure: - 300 Pa

For dampers (∅100 to 315 mm)

Mounted in a aerated concrete wall – th ≥ 100 mm with mortar sealing or stone wool + coating (density ≥ 140 kg/m^3) + coated casing sealing

Mounted in a flexible wall construction type F gypsum plasterboard (th ≥100 mm) with mortar sealing or tone wool + coating (density ≥ 140 kg/m^3) + coated casing sealing.

E I 120 (v_e i ↔ o) S

For dampers (∅100 to 315 mm):

Mounted in a aerated concrete wall – th ≥ 100 mm with mortar seal

Mounted in a flexible wall construction type F gypsum plasterboard (th ≥ 100 mm) with stone wool + coating (density ≥ 140 kg/m^3) sealing.

Offset mounted from a wall made of aerated concrete th th ≥ 100 using a sheet metal duct protected by stone wool + coating (density ≥ 140 kg/m^3).with th = 2 x 50 mm or a sheet metal duct protected by stone wool + coating (density ≥ 140 kg/m^3).with th = 2 x 50 mm + mortar

Mounted in a flexible wall construction type F gypsum plasterboard (EN 520) (th ≥ 100 mm) with stone wool + coating (density ≥ 140 kg/m^3) sealing or

E I 90 (v_e i ↔ o) S

Mounted in a flexible wall construction type F gypsum plasterboard (EN 520) (th ≥ 100 mm) with stone wool Mulcol Multistatic SP + coating

E I 60 (v_e i ↔ o) S

For dampers (∅100 to 315 mm) mounted in a rigid floor construction made of reinforced concrete th ≥ 150 mm with stone wool + coating (density ≥ 140 kg/m^3) + coated casing sealing

E I 120 (h_o i ↔ o) S

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For dampers mounted in a rigid floor construction, aerated concrete, (th≥150 mm) with stone wool + coating (density ≥ 140 kg/m^3) sealing

E I 90 (h_o i ↔ o) S

Working pressure: - 500 Pa

For damper (∅100 to 315 mm) :

Offset mounted using a metal sheet duct protected by boards of GEOFLAM F 45 or GEOFLAM F LIGHT th = 35 mm or a duct made of boards of GEOFLAM F 45 or GEOFLAM F LIGHT th = 35 mm

Mounted in a reinforced concrete wall th ≥ 110 mm with mortar/gypsum sealing.

Mounted in a aerated concrete wall th ≥ 100 mm with gypsum sealing

Mounted in Gypsum block wall th ≥ 70 mm – sealing with block glue

With kit/option 1S :

Mounted a aerated concrete wall th ≥ 100 mm

Mounted in a wall made of metal studs gypsum plasterboard Type F (EN 520) 100 ≤ th (mm) ≤ 125

For damper (∅100 to 250 mm) :

Mounted in a aerated concrete wall th ≥ 100 mm with gypsum sealing

E I 120 (v_e i ↔ o) S

For damper (∅100 to 315 mm) mounted in a wall made of metal studs gypsum plasterboard Type F (EN 520) – th ≥ 100 mm – gypsum sealing

E I 90 (v_e i ↔ o) S

For damper (∅100 to 315 mm) mounted in a wall made of metal studs gypsum plasterboard Type A (EN 520) – th ≥ 100 mm – gypsum sealing

For damper (∅100 to 250 mm) mounted in a wall made of metal studs gypsum plasterboard Type A (EN 520) – th ≥ 100 mm – stone wool (density≥40 kg/m^3) + cover plates sealing

E I 60 (v_e i ↔ o) S

For dampers (∅100 to 315 mm) mounted in a slab made of reinforced concrete – th ≥ 150 mm mortar sealing

E I 120 (h_o i ↔ o) S

For dampers (∅100 to 315 mm) mounted in a slab made of reinforced concrete – th ≥ 100 mm mortar sealing

E I 90 (h_o i ↔ o) S

FOR CR60:

Working pressure: - 300 Pa

For dampers: (∅100 to 315 mm)

Mounted in a flexible wall construction type F gypsum plasterboard (EN 520) (th ≥ 100 mm) with stone wool + coating (density ≥ 140 kg/m^3) sealing or gypsum sealing.

For Offset fire dampers from massive wall (th ≥ 100 mm) or partition wall made of plaster board type A (EN 520) (th ≥ 100 mm) using a metal duct protected by stone wool +coating (density ≥ 140 kg/m^3) - th = 2 x 50 mm

E I 90 (v_e i ↔ o) S

Mounted in a flexible wall construction type F gypsum plasterboard (EN 520) (th ≥ 100 mm) with stone wool Mulcol Multimastic FB1+coating sealing

Mounted in a flexible wall construction type A gypsum plasterboard (EN 520) (th ≥ 100 mm) and penetration seal type mineral wool + coating (PROMAT or HILTI seal) or clustered seal

For Offset fire dampers from massive wall (th ≥ 100 mm) or partition wall made of plaster board type A (EN 520) (th ≥ 100 mm) using a metal duct protected by stone wool +panels (PROMASTOP CB th= 1x 60 mm) or PROMASTOP CB or PROMASTOP CB-CC 50 or HILTI-CFS-CT_B_1s th= 2 x 50 mm

E I 60 (v_e i ↔ o) S

For dampers mounted in a rigid floor construction, aerated concrete, (th≥150 mm) with mineral wool +coating (density ≥ 140 kg/m^3) or clustered seal

E I 90 (h_o i ↔ o) S

Working pressure: - 500 Pa

For dampers: (∅100 to 315 mm)

Without kit/option 1S mounted in partition type F/Type A (EN 520) - th= 100 mm – Rockwool seal with stubs shaft wall type F (EN 520) th = 80 mm

With kit/option 1S mounted in a wall made of plasterboard Type A (EN 520) th = 100 mm or Plasterboard Type F wall linings th = 80 mm

With kit/option 1S mounted in a wall made of aerated concrete th ≥ 100 mm

E I 60 (v_e i ↔ o) S

Without kit/option 1S mounted in a gypsum block wall – th = 70 mm or a plasterboard partition type F / Type A (EN 520) th = 100 mm and plaster sealing or a cellular/reinforced concrete wall – th ≥ 100 mm

Without kit/option 1S for Offset fire dampers using a metal duct protected by panels of GEOFLAM F 45 or GEOFLAM F light 35

Without kit/option 1S for Offset fire dampers using a duct made of panels of GEOFLAM F 45 or GEOFLAM F light 35

E I 90 (v_e i ↔ o) S

For dampers without kit/option 1S mounted a cellular/reinforced concrete slab – th ≥ 100 mm

For dampers with kit/option 1S mounted in a slab made of aerated concrete th ≥ 100 mm

E I 90 (h_o i ↔ o) S

For dampers with kit/option 1S mounted in a slab made of aerated concrete th ≥ 100 mm

E I 60 (h_o i ↔ o) S

DESCRIPTION OF THE RANGE

Circular fire dampers: Diameter from 100 mm up to 315 mm

- Steel housing: galvanized steel th= 0.8 mm and length = 345 mm
- Damper blade: made of 1 fiber silicate boards (th = 20 mm)
- Actuating mechanism installed on the outside of the fire damper: Automatic or remote controlled mechanism

Kit – Options: Option 1S (collar 1S as described in EFR_ 19-005411)

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DECLARED CHARACTERISTICS

Nominal activation conditions: (EN ISO 10294-4) Sensing element load bearing capacity Sensing element response temperature	Compliant
Response delay closure time : Closure time	Compliant
Operational reliability	50 cycles – Compliant
Durability of response delay (EN ISO 10294-4)	Compliant
Durability of operational reliability	10000 cycles – Compliant* 300 cycles – Compliant** 50 cycles – Compliant***

*: with actuator BFL(T) or ONE or ONE-X or UNIQ
**: with actuator B(L)F(T)
***: with actuator MFUS

FIELD OF APPLICATION

Classification for fire dampers tested horizontally in a floor with fire from below are acceptable in installation with fire from above.
Classification applicable for fire dampers separated from 30 mm up to 200 mm in separate ducts and from 30 mm up to 75 mm between a fire damper and the constructional element.
For clustered dampers a maximum of 3 next to each other horizontally or vertically or a maximum of 4 fire dampers clustered is allowed.
The fire dampers may be installed with a blade axis at any angle, except for clustered dampers when the angle of the blade axis is limited to 45°.

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