

# DECLARATION OF PERFORMANCE

UKCA\_DoP\_Rf-t\_C11\_EN - M-01/10/2023



|                                                                                  |                                                                                                                                                          |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Unique identification code of the product-type:                               | CR120                                                                                                                                                    |
| 2. Intended use/es:                                                              | Circular fire damper to be used in conjunction with partitions to maintain fire compartments in heating, ventilating and air conditioning installations. |
| 3. Manufacturer:                                                                 | Rf-Technologies NV, Lange Ambachtstraat 40, B-9860 Oosterzele                                                                                            |
| 4. System/s of AVCP:                                                             | System 1                                                                                                                                                 |
| 5. Designated standard / Approved body; certificate of constancy of performance: | BS EN 15650:2010, BCCA with identification number 0749; BCCA-0749-CPR-BC1-606-0464-15650.02-2517 2822-UKCA-CPR-0055                                      |
| 6. Declared performance according to BS EN 15650:2010                            | (Fire resistance according to BS EN 1366-2 and classifications according to BS EN 13501-3)                                                               |

| Essential characteristics                                              |                                                          |                                                                  |                                                                                 |                                              | Performance                                |                                           |
|------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------|
| Range                                                                  | Wall type                                                | Wall                                                             | Sealing                                                                         | Installation                                 | Classification                             |                                           |
| Ø 100-315 mm                                                           | Rigid wall                                               | Reinforced concrete ≥ 110 mm                                     | Mortar / Gypsum                                                                 | 1                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (500 Pa) |                                           |
|                                                                        |                                                          | Aerated concrete ≥ 100 mm                                        | Gypsum                                                                          | 1                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (500 Pa) |                                           |
|                                                                        |                                                          |                                                                  | Mortar                                                                          | 1                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (300 Pa) |                                           |
|                                                                        |                                                          |                                                                  | Stone wool + coating ≥ 140 kg/m <sup>3</sup> + coated casing                    | 1                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (300 Pa) |                                           |
|                                                                        |                                                          |                                                                  | Stone wool + coating ≥ 140 kg/m <sup>3</sup>                                    | 1                                            | EI 90 (v <sub>e</sub> i ↔ o) S - (300 Pa)  |                                           |
|                                                                        |                                                          |                                                                  | Stone wool Mulcol Multimastic FB1 + coating                                     | 1                                            | EI 60 (v <sub>e</sub> i ↔ o) S - (300 Pa)  |                                           |
|                                                                        |                                                          |                                                                  | Galvanised duct + stone wool + coating ≥ 140 kg/m <sup>3</sup> 2x50 mm          | 2                                            | EI 90 (v <sub>e</sub> i ↔ o) S - (300 Pa)  |                                           |
|                                                                        |                                                          |                                                                  | Galvanised duct + stone wool + coating ≥ 140 kg/m <sup>3</sup> 2x50 mm + mortar | 2                                            | EI 90 (v <sub>e</sub> i ↔ o) S - (300 Pa)  |                                           |
|                                                                        |                                                          |                                                                  | Galvanised duct + GEOFLAM® F 45 mm + mortar                                     | 2                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (500 Pa) |                                           |
|                                                                        |                                                          |                                                                  | Galvanised duct + GEOFLAM® Light 35 mm + mortar                                 | 2                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (500 Pa) |                                           |
|                                                                        | Rigid floor                                              | Reinforced concrete ≥ 150 mm                                     | Mortar                                                                          | 3                                            | EI 120 (h <sub>0</sub> i ↔ o) S - (500 Pa) |                                           |
|                                                                        |                                                          | Aerated concrete ≥ 100 mm                                        | Mortar                                                                          | 3                                            | EI 90 (h <sub>0</sub> i ↔ o) S - (500 Pa)  |                                           |
|                                                                        |                                                          | Aerated concrete ≥ 150 mm                                        | Stone wool + coating ≥ 140 kg/m <sup>3</sup> + coated casing                    | 3                                            | EI 120 (h <sub>0</sub> i ↔ o) S - (300 Pa) |                                           |
|                                                                        |                                                          |                                                                  | Stone wool + coating ≥ 140 kg/m <sup>3</sup>                                    | 3                                            | EI 90 (h <sub>0</sub> i ↔ o) S - (300 Pa)  |                                           |
|                                                                        |                                                          | Flexible wall                                                    | Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm                        | Gypsum                                       | 1                                          | EI 60 (v <sub>e</sub> i ↔ o) S - (500 Pa) |
|                                                                        |                                                          |                                                                  |                                                                                 | Stone wool + coating ≥ 140 kg/m <sup>3</sup> | 1                                          | EI 60 (v <sub>e</sub> i ↔ o) S - (300 Pa) |
|                                                                        | Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm |                                                                  | Gypsum                                                                          | 1                                            | EI 90 (v <sub>e</sub> i ↔ o) S - (500 Pa)  |                                           |
|                                                                        |                                                          |                                                                  | Mortar                                                                          | 1                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (300 Pa) |                                           |
|                                                                        |                                                          |                                                                  | Stone wool + coating ≥ 140 kg/m <sup>3</sup> + coated casing                    | 1                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (300 Pa) |                                           |
|                                                                        |                                                          |                                                                  | Stone wool + coating ≥ 140 kg/m <sup>3</sup>                                    | 1                                            | EI 90 (v <sub>e</sub> i ↔ o) S - (300 Pa)  |                                           |
| Stone wool Mulcol Multimastic FB1 + coating                            |                                                          |                                                                  | 1                                                                               | EI 60 (v <sub>e</sub> i ↔ o) S - (300 Pa)    |                                            |                                           |
| Galvanised duct + stone wool + coating ≥ 140 kg/m <sup>3</sup> 2x50 mm |                                                          |                                                                  | 2                                                                               | EI 90 (v <sub>e</sub> i ↔ o) S - (300 Pa)    |                                            |                                           |
| Gypsum blocks ≥ 70 mm                                                  |                                                          |                                                                  | Block glue                                                                      | 1                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (500 Pa) |                                           |
| Asymmetrical flexible wall (shaft wall)                                |                                                          |                                                                  | Metal studs gypsum plasterboard Type F (EN 520) ≥ 90 mm                         | Installation kit                             | 4                                          | EI 90 (v <sub>e</sub> i ↔ o) S - (300 Pa) |
| Ø 100-250 mm                                                           | Flexible wall                                            | Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm         | Stone wool ≥ 40 kg/m <sup>3</sup> + cover plates                                | 1                                            | EI 60 (v <sub>e</sub> i ↔ o) S - (500 Pa)  |                                           |
| CR120-1S Ø 100-315 mm                                                  | Rigid wall                                               | Aerated concrete ≥ 100 mm                                        | Not applicable                                                                  | 5                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (500 Pa) |                                           |
|                                                                        | Flexible wall                                            | Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 - ≤ 125 mm | Not applicable                                                                  | 5                                            | EI 120 (v <sub>e</sub> i ↔ o) S - (500 Pa) |                                           |

Designated standard  
EN 15650:2010

|   |                                                                                          |  |   |                                                                                   |  |   |                                                                       |  |
|---|------------------------------------------------------------------------------------------|--|---|-----------------------------------------------------------------------------------|--|---|-----------------------------------------------------------------------|--|
| 1 | Type of installation: built-in, 0-360°. Minimal distances authorised with axis till 45°. |  | 2 | Type of installation: remote from the wall, 0/180°. Minimal distances authorised. |  | 3 | Type of installation: built-in, 0-360°. Minimal distances authorised. |  |
| 4 | Type of installation: built-in, 0-360°. Minimal distances authorised.                    |  | 5 | Type of installation: surface-mounted, 0/180°. Minimal distances authorised.      |  |   |                                                                       |  |

|                                                          |                                                                                                                           |                                         |                        |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------|
| Nominal activation conditions/sensitivity:               | Pass                                                                                                                      | Integrity (E):                          | 60, 90 and 120 minutes |
| Response delay (response time): closure time             | Pass                                                                                                                      | Insulation (EI):                        | 60, 90 and 120 minutes |
| Operational reliability: cycling                         | MFUS - 50 cycles; MMAG - 300 cycles; BFL(T) - 10000 cycles; ONE - 10000 cycles; ONE-X - 10000 cycles; UNIQ - 10000 cycles | Smoke leakage (EIS):                    | 60, 90 and 120 minutes |
| Durability of response delay:                            | Pass                                                                                                                      | Mechanical stability (under E):         | Pass                   |
| Durability of operational reliability:                   | Pass                                                                                                                      | Maintenance of cross section (under E): | Pass                   |
| Protection against corrosion according to EN 60068-2-52: | Pass                                                                                                                      |                                         |                        |
| Damper casing leakage according to EN 1751:              | ≥ class C                                                                                                                 |                                         |                        |

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in compliance with Regulation 2020 N°1359 of The Construction Products (EU exit) Regulation 2020, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:  
Frank Verlinden, Head of Product Management

*F. Verlinden*

Oosterzele, 01/10/2023

