

# DECLARATION OF PERFORMANCE

CE\_DoP\_Rf-t\_C11\_EN - N-01/10/2024

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. Harmonised standard / European Assessment Document; notified body / European Technical Assessment, Technical Assessment Body, notified body; certificate of constancy of performance:	EN 15650:2010, BCCA with identification number 0749; BCCA-0749-CPR-BC1-606-0464-15650.02-0464&2517
6. Declared performance according to EN 15650:2010	(Fire resistance according to EN 1366-2 and classifications according to EN 13501-3)

Essential characteristics				Performance	
Range	Type	Wall	Sealing	Installation	
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	Aerated concrete ≥ 105 mm	Installation kit IFW	3	EI 90 (v <sub>e</sub> , i ↔ o) S - (300 Pa)
		Reinforced concrete ≥ 150 mm	Mortar	4	EI 120 (h <sub>e</sub> , i ↔ o) S - (500 Pa)
		Aerated concrete ≥ 100 mm	Mortar	4	EI 90 (h <sub>e</sub> , i ↔ o) S - (500 Pa)
		Aerated concrete ≥ 150 mm	Stone wool + coating ≥ 140 kg/m <sup>3</sup> + coated casing	4	EI 120 (h <sub>e</sub> , i ↔ o) S - (300 Pa)
			Stone wool + coating ≥ 140 kg/m <sup>3</sup>	4	EI 90 (h <sub>e</sub> , i ↔ o) S - (300 Pa)
		Flexible wall	Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm	Gypsum	1
	Mortar			1	EI 60 (v <sub>e</sub> , i ↔ o) S - (300 Pa)
	Stone wool + coating ≥ 140 kg/m <sup>3</sup>			1	EI 60 (v <sub>e</sub> , i ↔ o) S - (300 Pa)
				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 IFW	3	EI 90 (v <sub>e</sub> , i ↔ o) S - (300 Pa)
CLT wall	Cross-laminated timber ≥ 100 mm		Installation kit IFW	3	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
CR120 + GDA Ø 100-315 mm	Flexible wall	Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm	GDA + stone wool ≥ 40 kg/m <sup>3</sup>	5	EI 90 (v <sub>e</sub> , i ↔ o) S - (300 Pa)
CR120-1S Ø 100-315 mm	Rigid wall	Aerated concrete ≥ 100 mm	Not applicable	6	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	6	EI 120 (v <sub>e</sub> , i ↔ o) S - (500 Pa)

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: built-in, 0/180° (CR)		6	Type of installation: surface-mounted, 0/180°. Minimal distances authorised.	

Nominal activation conditions/sensitivity:	Pass
Response delay (response time): closure time	Pass
Operational reliability: cycling	MFUS - 50 cycles; MMAG - 300 cycles; BFL(T) - 10000 cycles; ONE - 10000 cycles; ONE-X - 10000 cycles; UNIQ - 10000 cycles; BOBI - 300 cycles
Durability of response delay:	Pass
Durability of operational reliability:	Pass
Protection against corrosion according to EN 60068-2-52:	Pass
Damper casing leakage according to EN 1751:	≥ class ATC 3 (formerly 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 accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:  
**Duchan Laplace**, R&D Manager



Oosterzele, 01/10/2024

Harmonised standard  
EN 15650:2010