DECLARATION OF PERFORMANCE

1. Unique identification code of the product-type:	**VU120**
2. Intended use/es:	Smoke control damper to be used in smoke control systems, in multi-compartment applications.
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 12101-8:2011, Efectis with identification number 1812; Efectis - 1812-CPR-1595
6. Declared performance according to EN 12101-8:2011	(fire resistance according to EN 1366-10, classification according to EN 13501-4)

Essential characteristics					Performance
Range	**Type**	**Material**	**Sealing**	**Installation**	**Classification**
200x200 mm ≤ VU120+MANF/BEN + grill ≤ 1200x800 mm; 1000x1000. 200x200 mm ≤ VU120+NF/SF + grill ≤ 1200x650 mm; 950x750 mm	Duct	Promatect L500 ≥ 30 mm	Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)	1	EI 60 (v_{ed} h_{od} i ↔ o) S 1500 AA multi
		Geoflam ≥ 30 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Geotec ≥ 30 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Tecniver ≥ 35 mm	Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Glasroc F V500 ≥ 35 mm	Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Exthamat ≥ 25 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Desenfire HD ≥ 25 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
	Duct	Promatect L500 ≥ 40 mm	Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)	1	EI 90 (v_{ed} h_{od} i ↔ o) S 1500 AA multi
		Geoflam ≥ 35 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Tecniver ≥ 45 mm	Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Exthamat ≥ 30 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Desenfire THD ≥ 25 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
	Shaft	Reinforced concrete (≥ 2150 kg/m^3) ≥ 70 mm	Mortar	1	EI 90 (v_{ed} i ↔ o) S 1500 AA multi
	Duct	Promatect L500 ≥ 50 mm	Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)	1	EI 120 (v_{ed} h_{od} i ↔ o) S 1500 AA multi
		Geoflam ≥ 45 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Geoflam Light ≥ 35 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Geotec ≥ 45 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Tecniver ≥ 50 mm	Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Glasroc F V500 ≥ 50 mm	Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Exthamat ≥ 35 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Desenfire HD ≥ 35 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
		Desenfire STR ≥ 25 mm	Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm)		
	Shaft	Masonry, concrete blocks, concrete ≥ 100 mm	Mortar	1	EI 120 (v_{ed} i ↔ o) S 1500 AA multi

1 Type of installation: in duct/shaft-mounted 0/90°/180°/270°. Minimal distances authorised.

Harmonised standard EN 12101-8:2011

Nominal activation conditions/sensitivity:	Pass - automatic activation
Response delay (response time): closure time	Pass - automatic activation
Operational reliability: cycling	Belimo NF - 300 cycles (with load); Belimo SF - 300 cycles (with load); MANF - 300 cycles (no load); BEN - 10000 cycles (C10000) (no load)
Durability of response delay:	Pass
Durability of operational reliability:	Pass
High operational temperature (HOT 400/30):	NPD (no performance determined)

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, 01/04/2024