

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

- Unique identification code of the product-type: **Polybaie OFVELI-OFVEPI**
- Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11 paragraph 4:
Information given on the tracking label :
Order confirmation Number + Product Number + Date of production
- Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer :

3.1 Product description : Natural smoke and heat exhaust ventilator with a single casement, for wall installation on a horizontal axis in a bottom or top hung opening inside configuration, or on a vertical axis side hung opening inside style. The infill can be in cellular polycarbonate, in glass or insulated double skin aluminium (thermally or acoustically).

3.2 Installation and implementation conditions in accordance with the certified performances

- Wall installation ($\pm 30^\circ$)
- Dimensional range: (Throat dimensions)

	OFVELI Bottom or top hunged		Side hunged			OFVEPI Bottom or top hunged			Side hunged		
			With :	If Lpa ≥ 2 x Hpa If Lpa ≥ 3 x Hpa	With :				If Lpa ≥ 2 x Hpa If Lpa ≥ 3 x Hpa		
	Minimum	Maximum	Minimum	Maximum		Minimum	Maximum	Minimum	Maximum		
LPA (mm)	300	2400 : 1600	1090	2400	1800	300	2400	1600	600	2400	1800
HPA (mm)	545	1200 : 1600	545	800	900	300	1200	1488	300	800	900

3.3 Mode of operation: Electrical opening and closing

- Voltage $U_a = U_c = 24 \text{ Vcc}$ - Power $P_a = P_c$ absorbed in steady state
- 38,4 W max.

3.4 Possible options :

- Open / Close position switches
- Thermal device release (according to the current standard).

- Name, registered trade name or trademark, in conformity with article 11, paragraph 5:

Company name : SOUCHIER – BOULLET SAS
Parc Segro – 42 rue de Lamirault
CS 20762
77090 COLLEGIEN
France

Production unit : SOUCHIER-BOULLET SAS
11 rue du 47^{ème} R.A.
70400 HERICOURT
France

- System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

The notified body **TÜV Rheinland N° 0336** performed the determination of the product type on the basis of type testing, type calculation of the product, the initial inspection of the manufacturing plant and the factory production control and the continuous surveillance, assessment and evaluation of the factory production control under system 1 and issued the certificate of constancy of performance N°

CE Certificate N°0336 – CPR – 89208433.

- Declared performances :

Harmonised technical specification: EN 12101-2:2003	Essential characteristics	Performance
	Nominal activation conditions / sensitivity, as:	
	Initiation device	present
	Opening mechanism	present
	Inputs and outputs	present
	Response delay (response time), as:	
	Reliability	
	Opening under (snow, wind) load	$\leq 60 \text{ s}$
	Low ambient temperature	
	Fire Performance	
	Operational reliability, as:	
	Reliability	Re 1000 (+10 000), Type B
	Effectiveness of smoke/hot gas extraction, as:	
	Aerodynamic free area (See page 3)	$A_{f0} = A_{f0}^* \times C_{v}^{**}$
	Performance parameters under fire conditions, as:	
	Resistance to heat	$B_{300} \geq 30$
	Mechanical stability	$\Delta A_{th,real} < 10 \%$
	Reaction to fire	
	Panel or glass insulated	A1
	Polycarbonate	B-s1,d0
	Performance under environmental conditions, as:	
	Opening under load	SL NPd
	Low ambient temperature	T(00)
	Stability under wind load	WL 1500
	Resistance to wind-induced vibration (where included)	NPd
	Resistance to heat	$B_{300} \geq 30$
	Durability, as:	
	Response delay (response time)	$\leq 60 \text{ s}$
	Operational reliability	Re 1000 (+10 000)
	Performance parameters under fire conditions	$\leq 60 \text{ s}; \Delta A_{th,real} < 10 \%$

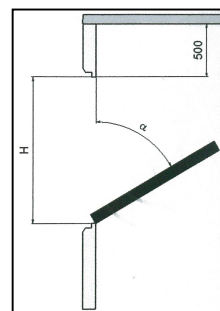
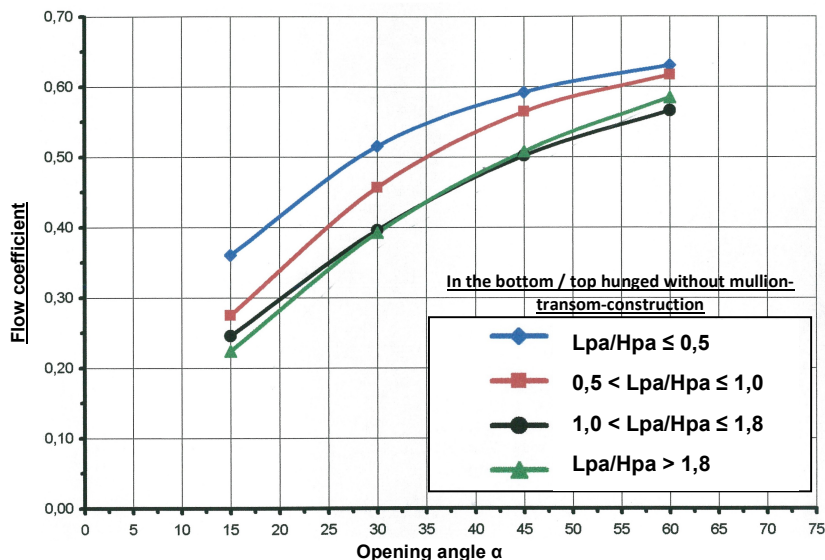
Calculation of the free aerodynamic surface

$$A_a = A_v \times C_v^{**}$$

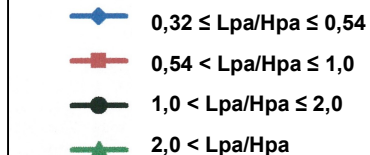
$$A_v = L_{pa} \times H_{pa}$$

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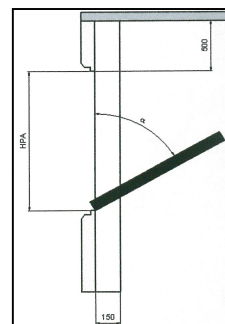
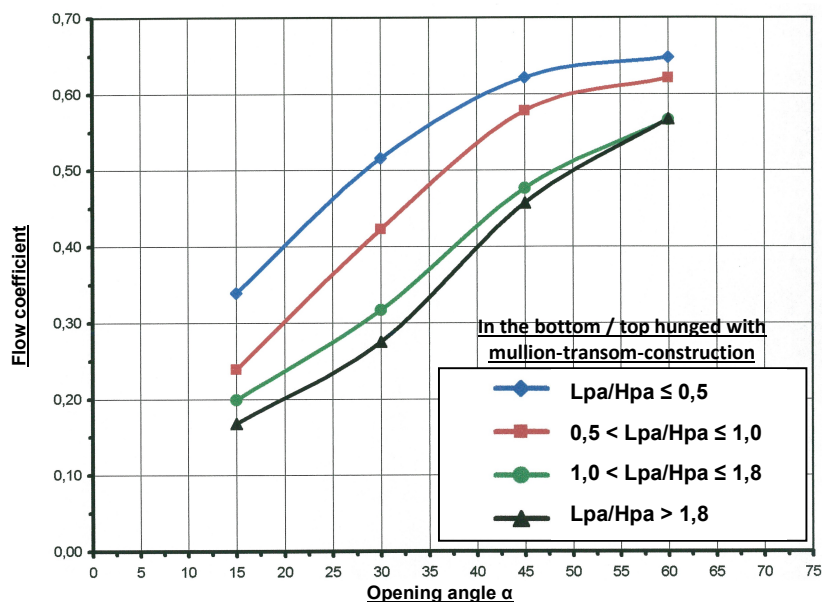
**** Calculation of flow coefficient Without the influence of the "mullion-transom-construction":**



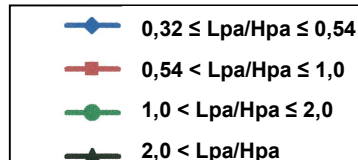
**Inwards side hung opening
Without mullion-transom-construction**



**** Cv: Calculation of flow coefficient With the influence of the "mullion-transom-construction":**



**Inwards side hung opening
With mullion-transom-construction**



10. The performance of the product identified in points 1 et 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by: **David Maillart – R&D Manager**

The 28/03/2024
In Collégien

