

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **Polybaie OFVPLI-OFVPPI**
2. *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
3. *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)

	OFVPLI Bottom or top hunged			Side hunged			OFVPPi 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	1080	2400	1800	300	2400	1600	1124	2400	1800
HPA (mm)	542	1200	1600	540	800	900	575	1200	1600	562	800	900

3.3 Mode of operation: Pneumatic opening and closing
Service pressure (Volume of a cylinder: 13.52 NI max)

3.4 Possible options :
Open / Close position switches
Thermal device release (according to the current standard).

4. *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

6. 7. *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.

9. *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	≤ 60 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)	$A_v = A_v^* \times C_v^{**}$
	Performance parameters under fire conditions, as:	
	Resistance to heat	$B_{100} \geq 30$
	Mechanical stability	$\Delta A_{thmax} < 10 \%$
	Reaction to fire	
	Panel or glass insulated Polycarbonate	A1 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	$B_{100} \geq 30$
	Durability, as:	
	Response delay (response time)	≤ 60 s
	Operational reliability	Re 1000 (+10 000)
	Performance parameters under fire conditions	≤ 60 s; $\Delta A_{thmax} < 10 \%$

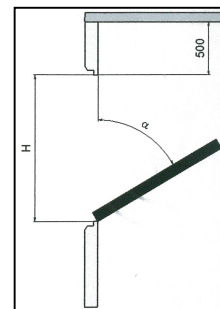
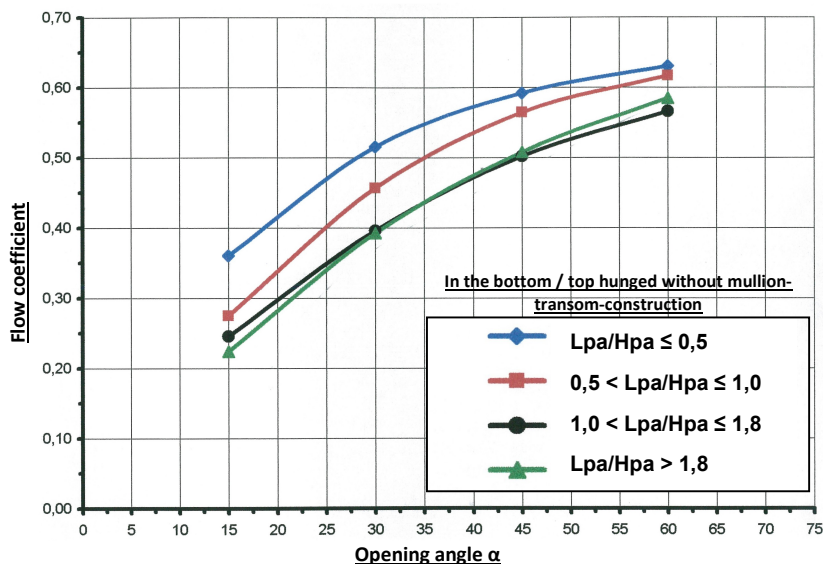
Calculation of the free aerodynamic surface

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

$$A_v = Lpa \times Hpa$$

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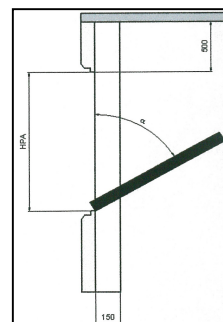
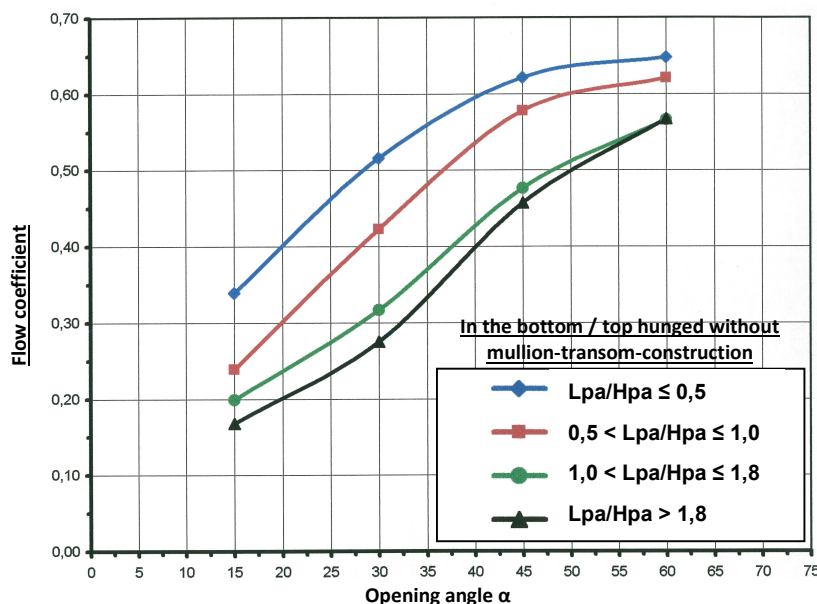
**** Calculation of flow coefficient Without the influence of the "mullion-transom-construction":**



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

- ◆— $0,32 \leq L_{pa}/H_{pa} \leq 0,54$
- $0,54 < L_{pa}/H_{pa} \leq 1,0$
- $1,0 < L_{pa}/H_{pa} \leq 2,0$
- ▲— $2,0 < L_{pa}/H_{pa}$

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



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

- ◆— $0,32 \leq L_{pa}/H_{pa} \leq 0,54$
- $0,54 < L_{pa}/H_{pa} \leq 1,0$
- $1,0 < L_{pa}/H_{pa} \leq 2,0$
- ▲— $2,0 < L_{pa}/H_{pa}$

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