

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **EXUBAIE V2 OFVEI**
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 outside configuration, or on a vertical axis side hung opening outside 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 ($\pm 5^\circ$)
- Dimensional range : (Hht and Lht are the overall dimensions of the product)

2 MOTORS						
BOTTOM OR TOP HUNG				Side hung		
Minimum		Maximum		With: if $L_{pa} \geq 2 \times H_{pa}$		
				Minimum	Maximum	
LHT (mm)	1120	2620	1320	1120	2620	
HHT (mm)	620 Face fixed position switches	855 Concealed position switches	1320 2620	620 contactless	855 Concealed position switches	1370

3.3 Mode of operation : Electrical opening and closing

Voltage $U_a = U_c = 24$ ou 48 Vcc

Wattage $P_a = P_c$ absorbed in a steady state = $40,8$ W maxi

3.4 Possible options :

Open / Close position switches

Thermal device release (according to the current standard).

4. *Name, registered trade name or trade mark , 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

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 EN 12 101-2 2003

Certificat CE N°0336 – CPR – 6742-3.

9. *Performances déclarées :*

Harmonised technical specification: EN 12101-2:2003	Essential characteristics		Performance
	Nominal activation conditions / sensitivity, as: Initiation device Opening mechanism Inputs and outputs		present present present
	Response delay (response time), as: Reliability Opening under (snow, wind) load Low ambient temperature Fire Performance		≤ 60 s
	Operational reliability, as: Reliability		Re 1000 (+10 000), Type B
	Effectiveness of smoke/hot gas extraction, as: Aerodynamic free area (see diagrams)		$A_a = A_v * C_v^{**}$
	Performance parameters under fire conditions, as: Resistance to heat Mechanical stability Reaction to fire		B ₃₀₀ 30 $\Delta A_{throat} < 10 \%$
			Insulated panel or glass Polycarbonate A1 B-s1;d0
	Performance under environmental conditions, as: Opening under load Low ambient temperature Stability under wind load Resistance to wind-induced vibration (where included) Resistance to heat		SL NPD T(00) WL 1500 $\omega_0 > 10\text{Hz}$, $\delta > 0,1$ B ₃₀₀ 30
	Durability, as: Response delay (response time) Operational reliability Performance parameters under fire conditions		≤ 60 s Re 1000 (+10 000) ≤ 60 s; $\Delta A_{throat} < 10 \%$

Calculation of the free aerodynamic area :

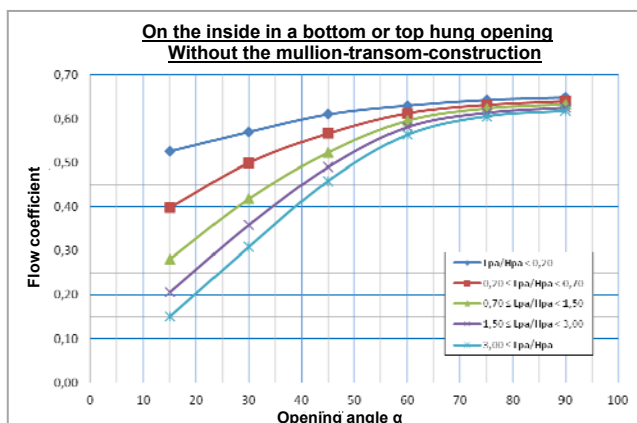
$$A_a = A_v \times C_v^{**}$$

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

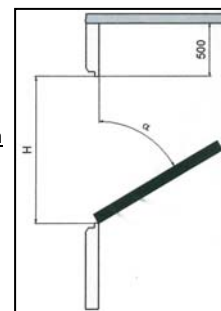
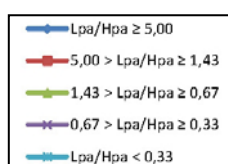
$$L_{pa} = L_{ht} - 0,120 \text{ m and } H_{pa} = H_{ht} - 0,120 \text{ m}$$

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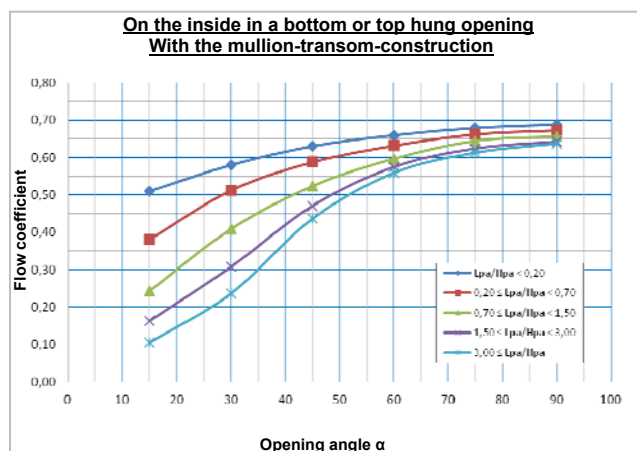
**** Cv : Calculation of flow coefficient Without the influence of the "mullion-transom-construction" :**



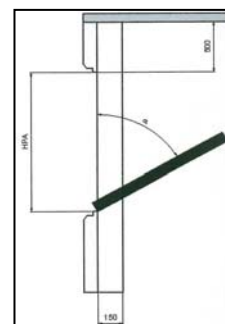
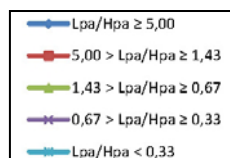
**Inwards side hung opening
Without the mullion-transom-construction**



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



**Inwards side hung opening
With the 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 13/04/2023
In Collégien

