

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **EXUBAIE RPT OFPI**
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 on the inside in a bottom or top hung opening configuration, or on a vertical axis inwards side hung opening 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)

$0,5 \leq \text{Hht} \leq 1,6 \text{ m}$ and $0,5 \leq \text{Lht} \leq 2,4 \text{ m}$.

With $0,10 \leq A_v^* \leq 2,16 \text{ m}^2$

* Exubaie RPT OFPI: $A_v = \text{Lpa} \times \text{Hpa}$ ($\text{Lpa} = \text{Lht} - 0,212 \text{ m}$ and $\text{Hpa} = \text{Hht} - 0,212 \text{ m}$)

3.3 Mode of operation : Pneumatic opening and closing

Service pressure 6 to 20 bars

- o 0,12NI in opening
- o 8,3NI in closing

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 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 – 6742-3.

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	
	Low ambient temperature	$\leq 60 \text{ s}$
	Fire Performance	
	Operational reliability, as:	
	Reliability	Re 1000 (+10 000), Type B
	Effectiveness of smoke/hot gas extraction, as:	
	Aerodynamic free area (See page 2)	$A_{f1} = A_{f2} \times C_{f2}^{**}$
	Performance parameters under fire conditions, as:	
	Resistance to heat	$B_{300} \geq 30$
	Mechanical stability	$\Delta A_{th,1000} < 10 \%$
	Reaction to fire	
	Panel or glass insulated	A1
	Polycarbonate	$B < 1,00$
	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	$\leq 60 \text{ s}; \Delta A_{th,1000} < 10 \%$

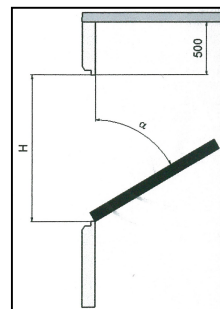
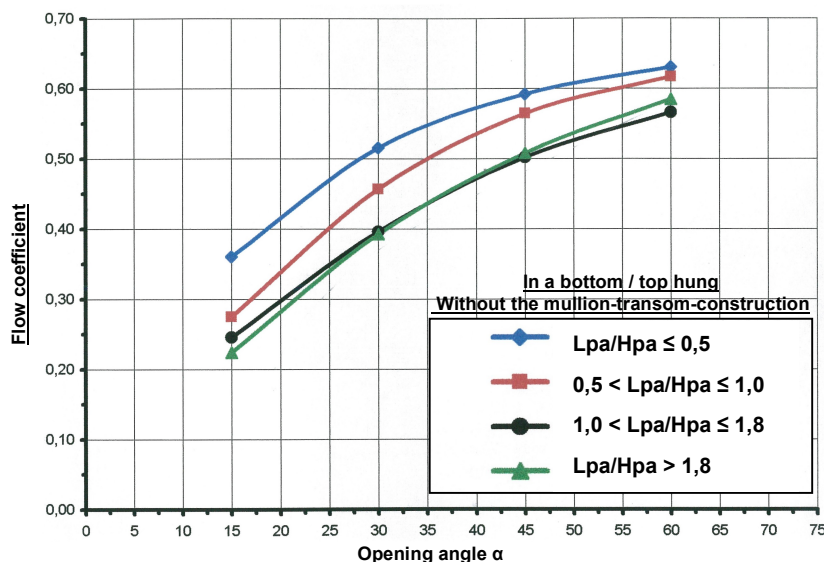
Calculation of the free aerodynamic surface :

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

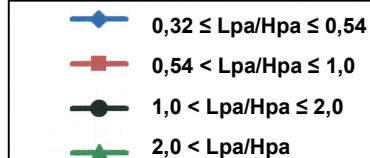
$A_v = \text{Lpa} \times \text{Hpa}$

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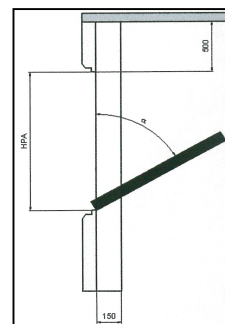
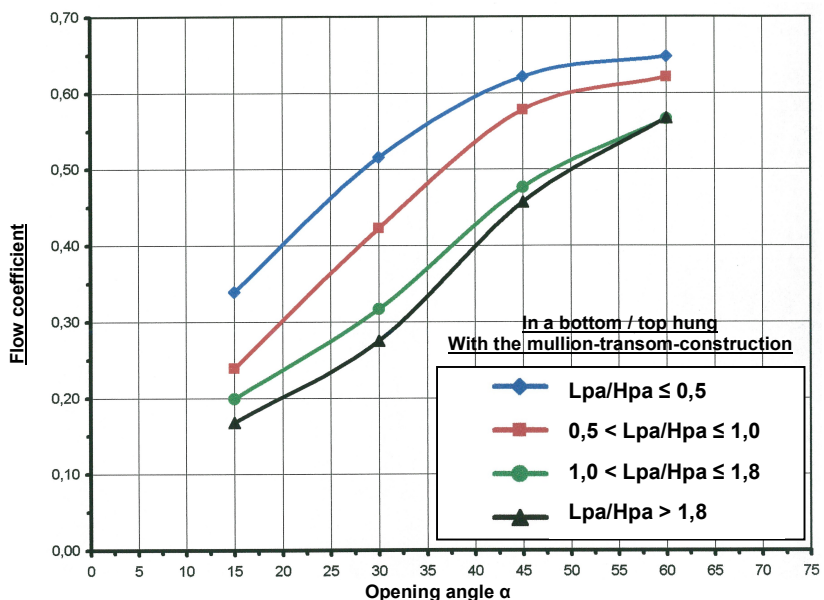
**** Cv : Calculation of flow coefficient Without the influence of the "mullion-transom-construction" :**



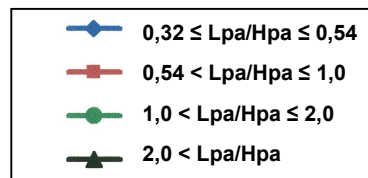
**Inwards side hung opening
Without the mullion-transom-construction**



**** 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 25/03/2024
In Collégien