DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **EXUBAIE RPT OFEI**
   EXUBAIE STD OFEI

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 (±5°)
   - Dimensional range : (Hht and Lht are the overall dimensions of the product)

   $0,5 \leq Hht \leq 1,6$ m and $0,5 \leq Lht \leq 2,4$ m.   With $0,10 \leq A_v^* \leq 2,16$ m²
   * Exubaie RPT OFEI: $A_v = Lpa \times Hpa$ (Lpa = Lht − 0,212 m and Hpa = Hht − 0,212 m)
   * Exubaie STD OFEI: $A_v = Lpa \times Hpa$ (Lpa = Lht − 0,180 m and Hpa = Hht − 0,180 m)

   3.3 Mode of operation : Electric opening and closing   **3.4 Possible options :**
   Voltage $U_a = U_c = 24$ Vcc − Wattage $P_a = P_c$ absorbed in a steady   Open / Close position switches
   state   Thermal device release (according to the current standard).
   - o   36 W maxi

4. *Name, registered trade name or trade mark , in conformity with article 11, paragraph 5:*

   Company name : SOUCHIER SAS   **Production unit :** SOUCHIER SAS
   11 rue des Campanules   11 rue du 47ème R.A.
   CS 30066   70400 HERICOURT
   77436 MARNE LA VALLEE Cedex 2   France
   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 :*

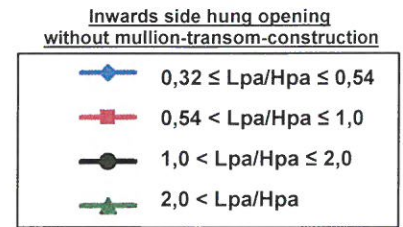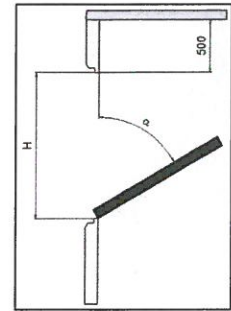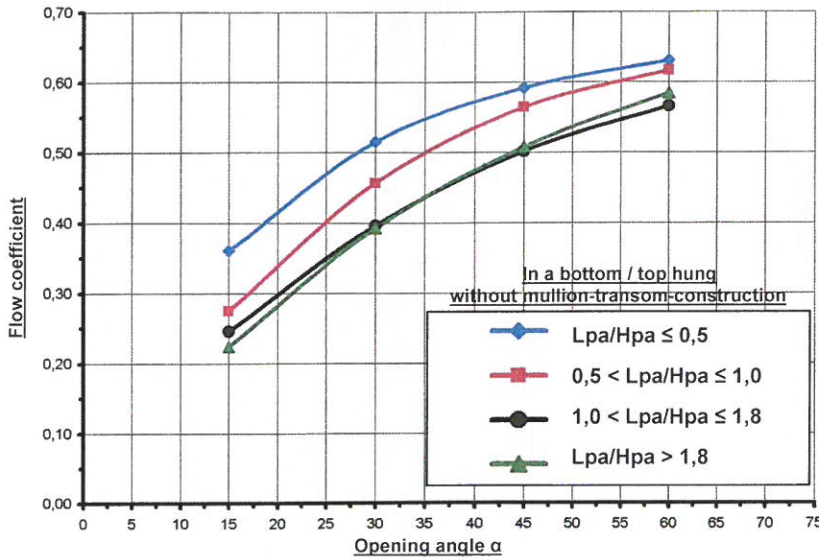| Essential characteristics	Performance
Nominal activation conditions / sensitivity, as:	
Initiation device	present
Opening mechanism	present
Inputs and outputs	present
Response delay (response time), as:	
Reliability	
Opening under (snow, wind) load	≤ 60 s
Low ambient temperature	
Fire Performance	
Operational reliability, as:	
Reliability	Re 1000 (+10 000), Type B
Effectiveness of smoke/hot gas extraction, as:	
Aerodynamic free area (see diagrams)	$A_a = A_v^* \times C_v^{**}$
Performance parameters under fire conditions, as:	
Resistance to heat	B_{300} 30
Mechanical stability	$\Delta A_{throat} < 10 \%$
Reaction to fire	
Insulated panel or glass	A1
Polycarbonate	B-s1;d0
Performance under environnemental 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)	ω_0: > 10Hz, δ: >0,1
Resistance to heat	B_{300} 30
Durability, as:	
Response delay (response time)	≤ 60 s
Operational reliability	Re 1000 (+10 000)
Performance parameters under fire conditions	≤ 60 s; $\Delta A_{throat} < 10 \%$

Harmonised technical specification: EN 12101-2:2003

Calculation of the free aerodynamic surface :
$A_a = A_v \times C_v^{**}$
$A_v = Lpa \times Hpa$

SOUCHIER - BOULLET - 11, rue des Campanules - CS 30066 - 77436 MARNE-LA-VALLEE cedex 02
communication@souchier-boullet.com|devis@souchier-boullet.com|www.souchier-boullet.com
standard téléphonique. 01.60.37.79.50 | fax Souchier. 01.60.37.79.89 | fax Boullet. 03.44.64.98.99
SAS au capital de 1 481.916 € - N° TVA FR 35 662 014 661 - APE 2572Z - RCS 662014661 Meaux

Page 1 sur 2
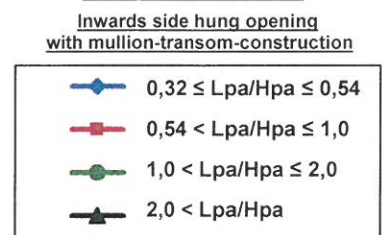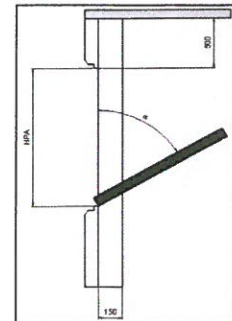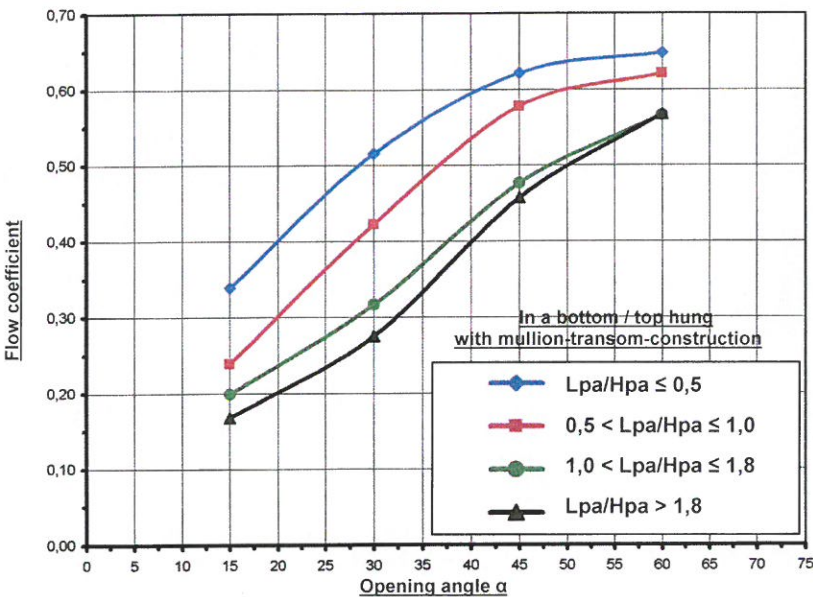
DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

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

In a bottom / top hung
without mullion-transom-construction

- $L_{pa}/H_{pa} \leq 0,5$
- $0,5 < L_{pa}/H_{pa} \leq 1,0$
- $1,0 < L_{pa}/H_{pa} \leq 1,8$
- $L_{pa}/H_{pa} > 1,8$

Inwards side hung 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" :

In a bottom / top hung
with mullion-transom-construction

- $L_{pa}/H_{pa} \leq 0,5$
- $0,5 < L_{pa}/H_{pa} \leq 1,0$
- $1,0 < L_{pa}/H_{pa} \leq 1,8$
- $L_{pa}/H_{pa} > 1,8$

Inwards side hung 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 19/12/2017
In Lognes