

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **CERTILIGHT RIDGEPOLE OFF**
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 double casement , for roof installing which opens outwards, with an external motorization. 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

- Roof installation 15° to 45° with both leafs installed face to face on two opposite slopes and with a distance between sleeping frame (distance X) = 60 to 300 mm.
- Dimensional range : (A and B are the overall dimensions of the product)
 Side A parallel to the hinges : $0,95m \leq A \leq 2,530m$ Side B perpendicular to the hinges : $0,7m \leq B \leq 1,6m$
 * $A_v = [side A - 0,181 m] \times [(side B \times 2 - 0,181 m) \times \cos(\text{slope angle}) + \text{ridge}]$ With $0,93 m^2 \leq A_v^* \leq 6 m^2$
- With 280 mm high steel upstand, with or without insulation, to ensure Cv coefficient declared in page 2

3.3 Mode of operation : Pneumatic opening et closing

Service pressure : 10 to 20 bars (Possibility to use the NSHEV as daily ventilation unit with a pressure of 6 bars)

3.4 Possible options :

- Open / Close position switches
- Griddle, (distance 120 mm), diameter 5 mm without influence on the aerodynamic coefficient
- Thermal device release (according to the current standard)

	700 ≤ B ≤ 900	901 ≤ B ≤ 1200	1201 ≤ B ≤ 1400	1401 ≤ B ≤ 1600
1 Cylinder Ø50	c500	c800	c1000	c1200
	10,5 NI	16,7 NI	20,8 NI	22,9 NI

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

Company name : SOUCHIER SAS
 11 rue des Campanules
 CS 30066
 77436 MARNE LA VALLEE Cedex 2
 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 – RPC – 6742-2.

9. *Declared performances:*

	Essential characteristics	Performance
Harmonised technical specification: EN 12101-2:2003	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	$A_v = A_v^* \times C_v^{**}$
	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: See the tracking label T(-15) WL 1500 $\omega_0 > 10Hz, \delta > 0,1$ $B_{300} 30$
	Durability, as: Response delay (response time) Operational reliability Performance parameters under fire conditions	≤ 60 s Re 1000 (+10 000) ≤ 60 s; $\Delta A_{throat} < 10 \%$

N : DoP CERTILIGHT OFP_indC

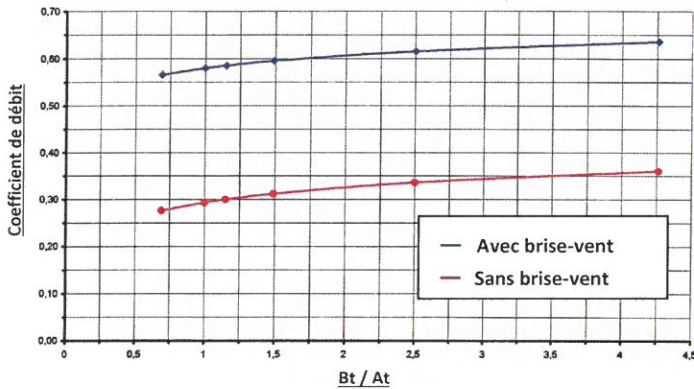
DECLARATION DE PERFORMANCES D'UNE GAMME DE DISPOSITIF D'EVACUATION NATURELLE DE FUMÉES ET DE CHALEUR

Détermination de la surface utile d'ouverture :

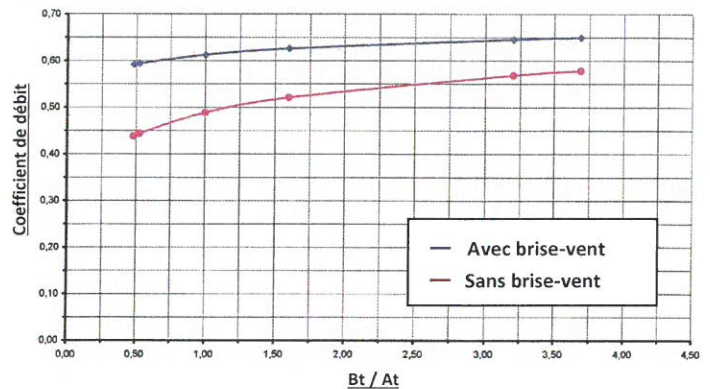
$A_a = A_v^* \times C_v^{**}$ or NPĐ

$A_v^* = A_t \times B_t = [cote A - 0,181 m] \times [(cote B \times 2) - 0,181 m]$

CERTILIGHT SANS COSTIERE



CERTILIGHT AVEC COSTIERE



*****Détermination de la classification de la charge neige :**

SL calculée sur base d'une masse de remplissage de 30kg/m² et une pression de service de 10 bars

Cote A parallèle aux paumelles : 0,95m ≤ A ≤ 2,530m

Cote B perpendiculaire aux paumelles : 0,7m ≤ B ≤ 1,6m

Cote A ≤ 1600 (1 vérin par vantail)

	Av (m²)			
	Cote B de 700 à 900	Cote B de 901 à 1200	Cote B de 1201 à 1400	Cote B de 1401 à 1600
SL 1000		1,24 à 1,28 m²		
SL 500	0,93 à 1,35 m²	1,29 à 2,23 m²	1,70 à 2,66 m²	2,01 à 3,17 m²
SL 250	1,36 à 2,29 m²	2,24 à 3,14 m²	2,67 à 3,71 m²	3,18 à 4,28 m²

Cote A > 1600 (2 vérins par vantail)

	Av (m²)			
	Cote B de 700 à 900	Cote B de 901 à 1200	Cote B de 1201 à 1400	Cote B de 1401 à 1600
SL 1000		2,30 à 2,76 m²	3,15 à 3,24 m²	3,72 à 3,83 m²
SL 500	1,73 à 2,97 m²	2,77 à 4,48 m²	3,25 à 5,28 m²	3,84 à 6 m²
SL 250	2,98 à 3,26 m²			

10. Les performances du produit identifié aux points 1 et 2 sont conformes aux performances déclarées indiquées au point 9. La présente déclaration des performances est établie sous la seule responsabilité du fabricant identifié au point 4.

Signé pour le fabricant et en son nom par: **David Maillart – Responsable R&D**

Le 13/12/2017
A Lognes