

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:*

CERTILUX TP(MRR)P
CERTILUX TP(MRR)V

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 (NSHEV) for roof installation with polycarbonate or glass blades.

3.2 Installation and implementation conditions in accordance with the certified performances

- Roof installation from 0° to 60° with glass blades
- Roof installation from 5° to 60° with polycarbonate blades
- Dimensional range : L and H are the throat dimensions of the product

L = width in m and H = height in m

$0,873 \leq H \leq 3,513$ and $0,5 \leq L \leq 2$

With $1m^2 \leq A_v^* \leq 7m^2$

* : $A_v = L \times H$

- With mandatory fixed windshields, to ensure Cv coefficient declared in page 2
- Without or with 280 or 350 mm high steel upstand, with or without insulation, to ensure Cv coefficient declared in page 2

3.3 Mode of operation :

Pneumatic opening and closing

Service pressure : 10 to 20 bars

Cylinder volume: 4,1 NI under 10 bars.

(Possibility to use the NSHEV for daily ventilation under 6 to 8,5 bars pressure)

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
11 rue des Campanules
CS 30066
77436 MARNE LA VALLEE Cedex 2
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 in accordance to 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 – 6742-1-1

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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, Type B	
Effectiveness of smoke/hot gas extraction, as:			
Aerodynamic free area		with upstand $A_a = A_v^* \times C_v^{**}$ without upstand $A_a = A_v^* \times C_v^{**}$	
Performance parameters under fire conditions, as:			
Resistance to heat		B ₃₀₀ 30	
Mechanical stability		$\Delta A_{trémie} < 10\%$	
Reaction to fire		Glass blades A1 Polycarbonate blades B-s1;d0	
Performance under environmental conditions, as:			
Opening under load (see tables)		SL ** *	
Low ambient temperature		T(00)	
Stability under wind load		WL 1500	
Resistance to wind-induced vibration (where included)		$\omega_0: > 10\text{Hz}, \delta: > 0,1$	
Resistance to heat		B ₃₀₀ 30	
Durability, as:			
Response delay (response time)		≤ 60 s	
Operational reliability		Re 1000	
Performance parameters under fire conditions		≤ 60 s; $\Delta A_{trémie} < 10\%$	

***Determination of the snowload classification :

CERTILUX TPP :

Performance	Av
SL 500	1 to 3 m ²
	3 to 4,69 m ²
SL 250	4,69 to 7 m ²

CERTILUX TPV :

Performance	Av
SL 500	1 to 3 m ²
	3 to 3,2 m ²
SL 250	3,2 to 4,67 m ²
SL 0	4,6 to 7 m ²

** Definition of flow coefficient

		With upstand 280 mm		With upstand 350 mm		Without upstand	
		500 ≤ L < 1000	1000 ≤ L ≤ 2000	500 ≤ L < 1000	1000 ≤ L ≤ 2000	500 ≤ L < 1000	1000 ≤ L ≤ 2000
With Av ≤ 6m ² windshields=265 mm	H < 1000	0,55	0,55			0,50	0,50
	H ≥ 1000	0,55	0,67			0,50	0,62
With Av > 6m ² windshield =310 mm	H ≤ 3513				0,64		0,62

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 20/04/2018
In Lognes

