

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. Unique identification code of the product-type:

CERTILAM FPS
CERTILAM FPI

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 wall installation with aluminium blades which can be thermally or acoustically insulated.

3.2 Installation and implementation conditions in accordance with the certified performances

- Wall installation from 0° to 30° except 0° for frame D
- Dimensional range : **L** and **H** are the throat dimensions of the product

L = width in m and **H** = height in m

$0,506 \leq H \leq 3,046$ and $0,5 \leq L \leq 2,400$ with standard blades

$0,514 \leq H \leq 3,054$ and $0,5 \leq L \leq 2,400$ with insulated blades

With $0,25m^2 \leq A_v^* \leq 6m^2$

* : $A_v = L \times H$

3.3 Mode of operation :

Pneumatic opening and closing

Service pressure: 10 to 20 bars

Cylinder volume: 2,1 NI for products from 4 and 5 blades, and 4,1NI for products from 6 blades and more under 10 bars.

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

3.4 Possible options :

Open / Close position switches

Thermal device release (according to the current standard).

Small lateral windshields except for frame D.

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

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 – 6742-1-2

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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 (+10 000), Type B
	Effectiveness of smoke/hot gas extraction, as:	
	Aerodynamic free area	$A_a = A_v^* \times C_v^{**}$
	Performance parameters under fire conditions, as:	
	Resistance to heat	B ₃₀₀ 30
	Mechanical stability	$\Delta A_{throat} < 10 \%$
	Reaction to fire	
	Standard blades	A1
	Insulated blades	B-s1;d0
	Performance under environmental conditions, as:	
	Opening under load	SL NPD
	Low ambient temperature	T(-25)
	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 (+10 000)
	Performance parameters under fire conditions	≤ 60 s; $\Delta A_{throat} < 10 \%$

****Definition of flow coefficient**

$0,25 \leq A_v \leq 6 \text{ m}^2$	$500 < L < 1000$	$1000 \leq L \leq 2400$
H < 1000	Cv = 0,50	Cv = 0,50
H ≥ 1000	Cv = 0,50	Cv = 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 18/04/2023
In Collégien

