

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 ≤ H ≤ 3,046 and 0,5 ≤ L ≤ 2,400 with standard blades

0,514 ≤ H ≤ 3,054 and 0,5 ≤ L ≤ 2,400 with insulated blades

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

* : $A_v = L \times H$

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

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 – 6742-1-2

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9. Declared performances :

Harmonised technical specification: EN 12101-2:2003	Essential characteristics	Performance
	Nominal activation conditions / sensitivity, as: Initiation device 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	$A_a = A_v^* \times C_v^{**}$
	Performance parameters under fire conditions, as: Resistance to heat Mechanical stability Reaction to fire Standard blades Insulated blades	B ₃₀₀ 30 $\Delta A_{throat} < 10 \%$ 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 NPD T(-25) WL 1500 $\omega_0: > 10\text{Hz}, \delta: > 0,1$ B ₃₀₀ 30
	Durability, as: Response delay (response time) Operational reliability Performance parameters under fire conditions	≤ 60 s Re 1000 (+10 000) ≤ 60 s; $\Delta A_{throat} < 10 \%$

**Definition of flow coefficient

$0,25 \leq A_v \leq 6 \text{ m}^2$	$500 < L < 1000$	$1000 \leq L \leq 2400$
H < 1000	$C_v = 0,50$	$C_v = 0,50$
H ≥ 1000	$C_v = 0,50$	$C_v = 0,62$

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

