

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

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

LUXLAME TPV
LUXLAME TPI
LUXLAME TPP

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 glass blades, insulated opaque or polycarbonate infill.

3.2 Installation and implementation conditions in accordance with the certified performances

- Roof installation from 5° to 60° (blade hinges perpendicular to slope)
- Dimensional range : **L** and **H** are the overall dimensions of the product

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

$0,779 \leq L \leq 2,279$ and $0,921 \leq H \leq 3,220$

With $0,35 \text{ m}^2 \leq A_v^* \leq 6 \text{ m}^2$

* : $A_v = Lpa \times Hpa = (L-279) \times (H-220)$

- With mandatory retractable windshield (BVE) or fixed invisible windshield (BVI) front, to ensure Cv coefficient declared in page 2

3.3 Mode of operation : Pneumatical opening and closing

Service pressure: 10 to 20 bars (Volume for 2 cylinders Ø40: 5,94 NI 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).

Finishing casing

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 – CPR – 89205706.

N : DoP LUXLAME TP_indB1

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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 | $A_{0j} = A_v^{**} \times C_v^{**}$ |
| | Performance parameters under fire conditions, as: Resistance to heat Mechanical stability Reaction to fire Glass or insulated blades Polycarbonate 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 T(00) - 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 ; $\Delta A_{throat} < 10 \%$ |

**** Calculation of flow coefficient**

| Avec BVE | 250 mm ≤ Pas de lame ≤ 325 mm | | | | 326 mm ≤ Pas de lame ≤ 400 mm | | | |
|----------------------|-------------------------------|---------|----------------|---------|-------------------------------|---------|----------------|---------|
| | Lame ép. 60 mm | | Lame ép. 24 mm | | Lame ép. 60 mm | | Lame ép. 24 mm | |
| | Cv mini | Cv maxi | Cv mini | Cv maxi | Cv mini | Cv maxi | Cv mini | Cv maxi |
| Sans costière | 0,320 | 0,465 | 0,345 | 0,500 | 0,340 | 0,510 | 0,355 | 0,525 |
| Avec costière 280 mm | 0,335 | 0,485 | 0,375 | 0,530 | 0,375 | 0,540 | 0,390 | 0,550 |
| Avec costière 500 mm | 0,360 | 0,520 | 0,390 | 0,555 | 0,400 | 0,560 | 0,410 | 0,570 |

| Avec BVI | 250 mm ≤ Pas de lame ≤ 325 mm | | | | 326 mm ≤ Pas de lame ≤ 400 mm | | | |
|----------------------|-------------------------------|---------|----------------|---------|-------------------------------|---------|----------------|---------|
| | Lame ép. 60 mm | | Lame ép. 24 mm | | Lame ép. 60 mm | | Lame ép. 24 mm | |
| | Cv mini | Cv maxi | Cv mini | Cv maxi | Cv mini | Cv maxi | Cv mini | Cv maxi |
| Sans costière | 0,460 | 0,510 | 0,500 | 0,560 | 0,490 | 0,560 | 0,515 | 0,580 |
| Avec costière 280 mm | 0,485 | 0,530 | 0,510 | 0,570 | 0,525 | 0,585 | 0,535 | 0,590 |
| Avec costière 500 mm | 0,495 | 0,540 | 0,520 | 0,580 | 0,540 | 0,595 | 0,550 | 0,600 |

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