According to Construction Products Regulation (UE) N° 305/2011

N : **DoP LAL TP(sp)A_indØ**

# DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

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

**LAMLIGHT V2 TP(sp)A**

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 aluminium blades.

### *3.2 Installation and implementation conditions in accordance with the certified performances*

- Roof installation from 0° to 60°
- Dimensional range : **Lpa** and **Hpa** are the throat dimensions of the product

| | | | |
|---|---|---|---|
| **Lpa** = width in m | and | **Hpa** = height in m | |
| 0,377 ≤ **Hpa** ≤ 3,577 | and | 0,5 ≤ **L** pa≤ 2,42 | With 0,20m² ≤ $\mathbf{A_v}$* ≤ 7m² |

*** : $A_v$ = L x H**

- With or without fixed windshields, to ensure Cv coefficient declared
- Without or with 150 or 280 mm high steel upstand, with or without insulation, to ensure Cv coefficient declared

### *3.3 Mode of operation :*

Fail safe opening and closing by air
Service pressure : 0 bar – Cylinder volume: 0,67 Nl under 10 bars.

### *3.4 Possible options :*

Open / Close position switches
Thermal device release (according to the current standard).
Insect mesh
Anti fallen griddle

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 47ème 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-89219220**

## DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

9. *Declared performances :*

| | Essential characteristics | Performance |
|---|---|---|
| Harmonised technical specification: EN 12101-2:2003 | **Nominal activation conditions / sensitivity, as:** | |
| | Initiation device | present |
| | Opening mechanism | present |
| | Inputs and outputs | present |
| | **Response delay (response time), as:** | |
| | Reliability | ≤ 60 s |
| | Opening under (snow, wind) load | |
| | 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 | |
| | with upstand | $A_a = A_v$* x Cv** |
| | without upstand | $A_a = A_v$* x Cv** |
| | **Performance parameters under fire conditions, as:** | |
| | Resistance to heat | $B_{300}$ 30 |
| | Mechanical stability | $\Delta A_{trémie}$< 10 % |
| | Reaction to fire | |
| | Aluminium blades | A1 |
| | **Performance under environnemental conditions, as:** | |
| | Opening under load (see tables) | SL 500 - SL 250 - SL 0 |
| | Low ambient temperature | T(00) |
| | Stability under wind load | WL 0 - WL 1500 - WL 3000 |
| | Resistance to wind-induced vibration (where included) | $\omega_0$: > 10Hz, δ: >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; $\Delta A_{trémie}$< 10 % |

****Definition of flow coefficient**

- With or without upstand ( Hcost = 150 mm mini)
- With or without peripheral windshiels (Hbv = 85 mm mini – 450 mm maxi)

*See tables*

**Performances with insect mesh and / or anti fallen griddle on demand :**

- **Influence of fall through protections on free aerodynamic area of SHEVs Aa (m²)**

  ➔ Δ Aa=-(0.01 + 0.01 x Av) in m²
- **Influence of mosquito protections on free aerodynamic area of SHEVs Aa (m²)**

  ➔ Δ Aa=-(0.01 + 0.1 x Av) in m²

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## DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

### WITH WINDSHIELD PERIPHERAL AND WITHOUT UPSTAND

| Hpa | | | | | | | | | | | | Nb mobile blades |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3577 | 0,62 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | 0,61 | 0,61 | | | | 18 |
| 3377 | 0,62 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | 0,61 | 0,61 | | | | 17 |
| 3177 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | 0,61 | 0,61 | 0,60 | 0,60 | | | 16 |
| 2977 | 0,61 | 0,61 | 0,61 | 0,61 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | | 15 |
| 2777 | 0,61 | 0,61 | 0,61 | 0,61 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 0,59 | 14 |
| 2577 | 0,61 | 0,61 | 0,61 | 0,61 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 0,59 | 13 |
| 2377 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 0,59 | 0,58 | 0,58 | 12 |
| 2177 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 0,59 | 0,58 | 0,58 | 11 |
| 1977 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 0,58 | 0,58 | 0,58 | 10 |
| 1777 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,58 | 0,58 | 0,58 | 9 |
| 1577 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,58 | 0,58 | 0,58 | 0,57 | 0,57 | 8 |
| 1377 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 0,57 | 0,57 | 0,57 | 0,57 | 7 |
| 1177 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 0,57 | 0,57 | 0,57 | 0,57 | 6 |
| 977 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 5 |
| 777 | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,56 | 0,56 | 0,56 | 0,56 | 0,56 | 4 |
| 577 | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,56 | 0,56 | 0,56 | 0,56 | 0,56 | 3 |
| 377 | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,57 | 0,56 | 0,56 | 0,56 | 0,56 | 0,56 | 2 |
| Lpa | ≤ 500 | ≤ 700 | ≤ 900 | ≤ 1100 | ≤ 1300 | ≤ 1500 | ≤ 1700 | ≤ 1900 | ≤ 2100 | ≤ 2300 | ≤ 2420 | |

| Windshield's height | 85 mm | 180 mm | 238 mm | 450 mm |
|---|---|---|---|---|

### WITHOUT WINDSHIELD AND WITHOUT UPSTAND

| Hpa | | | | | | Nb mobile blades |
|---|---|---|---|---|---|---|
| 1377 | 0,57 | 0,57 | 0,56 | 0,55 | 0,54 | 7 |
| 1177 | 0,57 | 0,56 | 0,55 | 0,54 | 0,53 | 6 |
| 977 | 0,56 | 0,55 | 0,54 | 0,53 | 0,52 | 5 |
| 777 | 0,56 | 0,55 | 0,54 | 0,52 | 0,51 | 4 |
| 577 | 0,55 | 0,54 | 0,53 | 0,51 | 0,50 | 3 |
| 377 | 0,54 | 0,53 | 0,52 | 0,51 | 0,50 | 2 |
| Lpa | ≤ 500 | ≤ 700 | ≤ 900 | ≤ 1100 | ≤ 1300 | |

### WITHOUT WINDSHIELD AND WITH UPSTAND 150 MM MINI

| Hpa | | | | | | Nb mobile blades |
|---|---|---|---|---|---|---|
| 1377 | 0,59 | 0,59 | 0,58 | 0,57 | 0,56 | 7 |
| 1177 | 0,59 | 0,58 | 0,57 | 0,56 | 0,55 | 6 |
| 977 | 0,58 | 0,57 | 0,56 | 0,55 | 0,54 | 5 |
| 777 | 0,58 | 0,57 | 0,56 | 0,54 | 0,53 | 4 |
| 577 | 0,57 | 0,56 | 0,55 | 0,53 | 0,52 | 3 |
| 377 | 0,56 | 0,55 | 0,54 | 0,53 | 0,52 | 2 |
| Lpa | ≤ 500 | ≤ 700 | ≤ 900 | ≤ 1100 | ≤ 1300 | |

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## DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

## WITH WINDSHIELD PERIPHERAL AND WITH UPSTAND 150 MM MINI

| Hpa | | | | | | | | | | | | Nb mobile blades |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3577 | 0,64 | 0,64 | 0,64 | 0,64 | 0,63 | 0,63 | 0,63 | 0,63 | | | | 18 |
| 3377 | 0,64 | 0,64 | 0,64 | 0,64 | 0,63 | 0,63 | 0,63 | 0,63 | | | | 17 |
| 3177 | 0,64 | 0,64 | 0,64 | 0,63 | 0,63 | 0,63 | 0,63 | 0,62 | 0,62 | | | 16 |
| 2977 | 0,63 | 0,63 | 0,63 | 0,63 | 0,62 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | | 15 |
| 2777 | 0,63 | 0,63 | 0,63 | 0,63 | 0,62 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | 0,61 | 14 |
| 2577 | 0,63 | 0,63 | 0,63 | 0,63 | 0,62 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | 0,61 | 13 |
| 2377 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | 0,61 | 0,60 | 0,60 | 12 |
| 2177 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | 0,61 | 0,60 | 0,60 | 11 |
| 1977 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,62 | 0,61 | 0,61 | 0,60 | 0,60 | 0,60 | 10 |
| 1777 | 0,61 | 0,61 | 0,61 | 0,61 | 0,61 | 0,61 | 0,61 | 0,61 | 0,60 | 0,60 | 0,60 | 9 |
| 1577 | 0,61 | 0,61 | 0,61 | 0,61 | 0,61 | 0,61 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 8 |
| 1377 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 0,59 | 0,59 | 7 |
| 1177 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 0,59 | 0,59 | 6 |
| 977 | 0,60 | 0,60 | 0,60 | 0,60 | 0,60 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 5 |
| 777 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 4 |
| 577 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 3 |
| 377 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,59 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 2 |
| Lpa | ≤ 500 | ≤ 700 | ≤ 900 | ≤ 1100 | ≤ 1300 | ≤ 1500 | ≤ 1700 | ≤ 1900 | ≤ 2100 | ≤ 2300 | ≤ 2420 | |

| Windshield's height | 85 mm | 180 mm | 238 mm | 450 mm |
|---|---|---|---|---|

According to Construction Products Regulation (UE) N° 305/2011

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## DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

### WITH WINDSHIELD PERIPHERAL AND WITH UPSTAND 280 MM MINI

| Hpa | 85 | 180 | 238 | 85 | 180 | 238 | 85 | 180 | 238 | 450 | 85 | 180 | 238 | 450 | 85 | 180 | 238 | 450 | Nb mobile blades |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3577 | | | 0,66 | | | 0,66 | | | 0,64 | 0,66 | | | 0,61 | 0,65 | | | 0,59 | 0,64 | 18 |
| 3377 | | | 0,66 | | | 0,66 | | | 0,64 | 0,66 | | | 0,61 | 0,65 | | | 0,59 | 0,64 | 17 |
| 3177 | | | 0,66 | | | 0,66 | | | 0,64 | 0,66 | | | 0,61 | 0,65 | | | 0,59 | 0,64 | 16 |
| 2977 | | | 0,66 | | | 0,66 | | | 0,64 | 0,66 | | | 0,63 | 0,65 | | | 0,62 | 0,64 | 15 |
| 2777 | | | 0,66 | | | 0,66 | | | 0,64 | 0,66 | | | 0,63 | 0,65 | | | 0,62 | 0,64 | 14 |
| 2577 | | | 0,66 | | | 0,66 | | | 0,64 | 0,66 | | | 0,63 | 0,65 | | | 0,62 | 0,64 | 13 |
| 2377 | | | 0,66 | | | 0,66 | | | 0,65 | 0,66 | | | 0,63 | 0,65 | | | 0,62 | 0,64 | 12 |
| 2177 | | 0,66 | | | 0,66 | | | 0,62 | 0,65 | 0,66 | | 0,60 | 0,63 | 0,65 | | 0,58 | 0,62 | 0,64 | 11 |
| 1977 | | 0,65 | | | 0,65 | | | 0,64 | | | | 0,62 | 0,64 | | | 0,62 | 0,63 | 0,64 | 10 |
| 1777 | | 0,64 | | | 0,64 | | | 0,64 | | | | 0,64 | | | | 0,62 | 0,63 | | 9 |
| 1577 | | 0,63 | | | 0,63 | | | 0,63 | | | | 0,64 | | | | 0,64 | | | 8 |
| 1377 | 0,60 | 0,62 | | 0,60 | 0,62 | | 0,60 | 0,63 | | | 0,60 | 0,63 | | | 0,60 | 0,63 | | | 7 |
| 1177 | 0,60 | 0,61 | | 0,60 | 0,61 | | 0,60 | 0,62 | | | 0,60 | 0,62 | | | 0,60 | 0,62 | | | 6 |
| 977 | 0,60 | | | 0,60 | | | 0,60 | 0,61 | | | 0,60 | 0,61 | | | 0,60 | 0,62 | | | 5 |
| 777 | 0,59 | | | 0,59 | | | 0,59 | | | | 0,59 | 0,60 | | | 0,59 | 0,60 | | | 4 |
| 577 | 0,59 | | | 0,59 | | | 0,59 | | | | 0,59 | | | | 0,59 | | | | 3 |
| 377 | 0,59 | | | 0,59 | | | 0,59 | | | | 0,59 | | | | 0,59 | | | | 2 |
| Lpa | ≤ 500 | | | ≤ 700 | | | ≤ 900 | | | | ≤ 1100 | | | | ≤ 1300 | | | | |

| Windshield's height | 85 mm | 180 mm | 238 mm | 450 mm |
|---|---|---|---|---|

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## DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

### WITH WINDSHIELD PERIPHERAL AND WITH UPSTAND 280 MM MINI (NEXT)

| Hpa | 180 | 238 | 450 | 180 | 238 | 450 | 180 | 238 | 450 | 180 | 238 | 450 | 180 | 238 | 450 | 180 | 238 | 450 | Nb mobile blades |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3577 | | 0,58 | 0,63 | | 0,57 | 0,63 | | 0,56 | 0,63 | | | | | | | | | | 18 |
| 3377 | | 0,58 | 0,63 | | 0,57 | 0,63 | | 0,56 | 0,63 | | | | | | | | | | 17 |
| 3177 | | 0,58 | 0,63 | | 0,57 | 0,63 | | 0,56 | 0,62 | | 0,55 | 0,62 | | | | | | | 16 |
| 2977 | | 0,62 | 0,63 | | 0,62 | | | 0,62 | | | 0,61 | | | 0,61 | | | | | 15 |
| 2777 | | 0,62 | 0,63 | | 0,62 | | | 0,62 | | | 0,61 | | | 0,61 | | | 0,61 | | 14 |
| 2577 | | 0,62 | 0,63 | | 0,62 | | | 0,62 | | | 0,61 | | | 0,61 | | | 0,61 | | 13 |
| 2377 | | 0,62 | 0,63 | | 0,61 | 0,62 | | 0,61 | | | 0,61 | | | 0,60 | | | 0,60 | | 12 |
| 2177 | 0,57 | 0,62 | 0,63 | 0,56 | 0,61 | 0,62 | 0,55 | 0,61 | | 0,55 | 0,61 | | 0,54 | 0,60 | 0,61 | 0,54 | 0,60 | 0,61 | 11 |
| 1977 | 0,62 | | 0,63 | 0,61 | | 0,62 | 0,61 | | 0,62 | 0,60 | | 0,62 | 0,60 | | 0,62 | 0,60 | | 0,62 | 10 |
| 1777 | 0,61 | 0,62 | 0,63 | 0,61 | | 0,63 | 0,61 | | 0,63 | 0,60 | | 0,63 | 0,60 | | 0,63 | 0,60 | | 0,64 | 9 |
| 1577 | 0,63 | | | 0,61 | 0,62 | | 0,60 | | 0,64 | 0,60 | | 0,65 | 0,59 | | 0,65 | 0,59 | | 0,65 | 8 |
| 1377 | 0,63 | | | 0,60 | 0,63 | | 0,59 | 0,62 | 0,64 | 0,59 | 0,61 | 0,65 | 0,59 | 0,60 | 0,66 | 0,59 | 0,60 | 0,67 | 7 |
| 1177 | 0,63 | | | 0,61 | 0,63 | | 0,59 | 0,64 | | 0,59 | 0,63 | 0,65 | 0,59 | 0,62 | 0,66 | 0,59 | 0,62 | 0,67 | 6 |
| 977 | 0,62 | | | 0,61 | 0,63 | | 0,60 | 0,64 | | 0,59 | 0,65 | | 0,59 | 0,65 | | 0,59 | 0,64 | 0,66 | 5 |
| 777 | 0,61 | | | 0,62 | | | 0,62 | 0,63 | | 0,61 | 0,63 | | 0,60 | 0,64 | | 0,59 | 0,65 | | 4 |
| 577 | 0,59 | | | 0,59 | | | 0,59 | 0,60 | | 0,60 | 0,61 | | 0,60 | 0,61 | | 0,60 | 0,62 | | 3 |
| 377 | 0,59 | | | 0,58 | | | 0,58 | | | 0,58 | | | 0,58 | | | 0,58 | | | 2 |
| Lpa | ≤ 1500 | | | ≤ 1700 | | | ≤ 1900 | | | ≤ 2100 | | | ≤ 2300 | | | ≤ 2420 | | | |

| Windshield's height | 85 mm | 180 mm | 238 mm | 450 mm |
|---|---|---|---|---|

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 06/12/2023
In Collégien