

N : DoP VENTILIGHT RIDGEPOLE OFF_indD

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **VENTILIGHT RIDGEPOLE OFF**
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 with a single casement, for roof installation which opens outwards, with an external motorization. The infill can be in cellular polycarbonate, in glass or insulated double skin aluminium (thermally or acoustically).

3.2 Installation and implementation conditions in accordance with the certified performances

- Roof installation 30° to 60° with the hinges at the bottom of the slope (distance from the top: 150 to 500 mm).
- Dimensional range : (A and B are the overall dimensions of the product)

Side A parallel to the hinges : $0,85m \leq A \leq 2,2m$

Side B perpendicular to the hinges : $0,7m \leq B \leq 1,6m$

* $A_v = [side\ A - 0,181\ m] \times [(side\ B \times 2) - 0,181\ m]$

With $0,35\ m^2 \leq A_v^* \leq 2,86\ m^2$

3.3 Mode of operation : Pneumatic opening and closing

Service pressure : 10 to 20 bars

Possibility to use the NSHEV as daily ventilation unit with a pressure of 6 bars

	$700 \leq B \leq 900$	$901 \leq B \leq 1200$	$1201 \leq B \leq 1400$	$1401 \leq B \leq 1600$
1 Cylinder Ø50	c500	c800	c1000	c1200
	<i>10,5 NI</i>	<i>16,7 NI</i>	<i>20,8 NI</i>	<i>22,9 NI</i>

3.4 Possible options :

Open / Close position switches

Griddle, (distance 120 mm), diameter 5 mm without influence on the aerodynamic coefficient

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

Parc Segro – 42 rue de Lamirault

CS 20762

77090 COLLEGIEN

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 – 10430.

9. Declared performances:

	Essential characteristics	Performance
Harmonised technical specification: EN 12101-2:2003	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	$\leq 60\ s$
	Operational reliability, as: Reliability	Re 1000 (+10 000), Type B
	Effectiveness of smoke/hot gas extraction, as: Aerodynamic free area	$A_{f0} = A_v^* \times C_v^{**}$
	Performance parameters under fire conditions, as: Resistance to heat Mechanical stability Reaction to fire	$B_{300}\ 30$ $\Delta A_{throat} < 10\ \%$ Insulated panel or glass Polycarbonate A1 B-s1;d0
	Performance under environmental conditions, as: Opening under load (see tables) Low ambient temperature Stability under wind load Resistance to wind-induced vibration (where included) Resistance to heat	SL*** T(-15) WL 1500 $\omega_0: > 10Hz, \delta: > 0,1$ $B_{300}\ 30$
	Durability, as: Response delay (response time) Operational reliability Performance parameters under fire conditions	$\leq 60\ s$ Re 1000 (+10 000) $\leq 60\ s; \Delta A_{throat} < 10\ \%$

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Free Aerodynamic surface calculation :

$A_v = A_v^* \times C_v^{**}$ or NPD

$A_v^* = (\text{side A} - 0,181 \text{ m}) \times (\text{side B} - 0,181 \text{ m})$

C _v without windshield		Installation 30°/30°								
		Side B (mm)								
		≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500
Side A (mm)	≥ 850	0,37	0,37	0,36	0,36	0,36	0,35	0,34	0,33	0,33
	≥ 900	0,37	0,37	0,36	0,36	0,36	0,35	0,34	0,33	0,33
	≥ 1000	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,33
	≥ 1100	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,32
	≥ 1200	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,32
	≥ 1300	0,39	0,39	0,38	0,38	0,37	0,35	0,34	0,32	0,32
	≥ 1400	0,39	0,39	0,38	0,38	0,37	0,35	0,34	0,31	0,31
	≥ 1500	0,39	0,39	0,38	0,38	0,37	0,35	0,34	0,31	0,31
	≥ 1600	0,40	0,40	0,39	0,39	0,38	0,36	0,34	0,31	0,31
	≥ 1700	0,40	0,40	0,39	0,39	0,38	0,36	0,34	0,31	0,30
	≥ 1800	0,40	0,40	0,39	0,39	0,38	0,36	0,34	0,31	0,30
≥ 1900	0,41	0,41	0,40	0,40	0,39	0,37	0,34	0,31	0,30	
≥ 2000	0,41	0,41	0,40	0,40	0,39	0,37	0,34	0,31	0,30	
≥ 2100	0,41	0,41	0,40	0,40	0,39	0,37	0,34	0,31	0,30	

C _v without windshield		Installation 45°/45°								
		Side B (mm)								
		≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500
Side A (mm)	≥ 850	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,33
	≥ 900	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,33
	≥ 1000	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,33
	≥ 1100	0,39	0,39	0,38	0,38	0,36	0,35	0,34	0,33	0,33
	≥ 1200	0,39	0,39	0,38	0,38	0,36	0,35	0,34	0,33	0,33
	≥ 1300	0,40	0,40	0,39	0,39	0,37	0,36	0,34	0,33	0,33
	≥ 1400	0,40	0,40	0,39	0,39	0,37	0,36	0,34	0,33	0,32
	≥ 1500	0,40	0,40	0,39	0,39	0,37	0,36	0,34	0,33	0,32
	≥ 1600	0,41	0,41	0,40	0,40	0,38	0,37	0,35	0,33	0,32
	≥ 1700	0,41	0,41	0,40	0,40	0,38	0,37	0,35	0,33	0,32
	≥ 1800	0,41	0,41	0,40	0,40	0,38	0,37	0,35	0,33	0,31
≥ 1900	0,42	0,42	0,41	0,41	0,39	0,37	0,35	0,33	0,31	
≥ 2000	0,42	0,42	0,41	0,41	0,39	0,37	0,35	0,33	0,31	
≥ 2100	0,42	0,42	0,41	0,41	0,39	0,37	0,35	0,33	0,31	

C _v without wind shields		Installation 60°/60°								
		Side B (mm)								
		≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500
Side A (mm)	≥ 850	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 900	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 1000	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 1100	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 1200	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 1300	0,31	0,31	0,30	0,30	0,28	0,27	0,26	0,25	0,24
	≥ 1400	0,31	0,31	0,30	0,30	0,28	0,27	0,26	0,25	0,24
	≥ 1500	0,31	0,31	0,30	0,30	0,28	0,27	0,26	0,25	0,24
	≥ 1600	0,31	0,31	0,30	0,30	0,29	0,27	0,25	0,24	0,24
	≥ 1700	0,31	0,31	0,30	0,30	0,29	0,27	0,25	0,24	0,23
	≥ 1800	0,32	0,31	0,31	0,31	0,29	0,27	0,25	0,23	0,23
≥ 1900	0,32	0,31	0,31	0,31	0,29	0,27	0,25	0,23	0,23	
≥ 2000	0,32	0,31	0,31	0,31	0,29	0,27	0,25	0,23	0,23	
≥ 2100	0,32	0,31	0,31	0,31	0,29	0,27	0,25	0,23	0,23	

*****Determination of the snowload classification :**

Side A parallel to the hinges : 0,85m ≤ A ≤ 2,2m

Side B parallel to the hinges : 0,7m ≤ B ≤ 1,6m

Side A ≤ 1600 (1 cylinder)

700 ≤ Side B ≤ 900		901 ≤ Side B ≤ 1200		1201 ≤ Side B ≤ 1400		1401 ≤ Side B ≤ 1600	
A _v	Performance	A _v	Performance	A _v	Performance	A _v	Performance
0,35 to 0,60 m ²	SL 500	0,48 to 0,57 m ²	SL 1000	0,68 to 1,23 m ²	SL 500	0,82 to 1,48 m ²	SL 500
0,60 to 1,02 m ²	SL 250	0,57 to 1,03 m ²	SL 500	1,23 to 1,73 m ²	SL 250	1,48 to 2,01 m ²	SL 250
		1,03 to 1,45	SL 250				

Side A > 1600 (2 cylinders)

700 ≤ Side B ≤ 900		901 ≤ Side B ≤ 1200		1201 ≤ Side B ≤ 1400		1401 ≤ Side B ≤ 1600	
A _v	Performance	A _v	Performance	A _v	Performance	A _v	Performance
0,74 to 1,32 m ²	SL 500	1,02 to 1,25 m ²	SL 1000	1,45 to 1,49 m ²	SL 1000	1,73 to 1,78 m ²	SL 1000
1,32 to 1,45 m ²	SL 250	1,25 to 2,06 m ²	SL 500	1,49 to 2,46 m ²	SL 500	1,78 to 2,86 m ²	SL 500

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 17/04/2023
In Collégien