

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **VENTILIGHT RIDGEPOLE OFP(sp)**
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 double 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 5° to 60° with the hinges on the side (in the direction of the slope).
- Dimensional range: (**A** and **B** are the overall dimensions of the product)

Side **A** parallel to the hinges: $0,85\text{m} \leq \text{A} \leq 2,2\text{m}$
 $*\text{A}_v = [\text{side A} - 0,181\text{ m}] \times [(\text{side B} \times 2) - 0,181\text{ m}]$

Side **B** perpendicular to the hinges: $0,7\text{m} \leq \text{B} \leq 1,4\text{m}$
 With $0,35\text{ m}^2 \leq \text{A}_v \leq 2,86\text{ m}^2$

3.3 Mode of operation: Fail safe opening and closing with air
 Service pressure: 0 bars (Possibility to use the NSHEV
 as daily ventilation unit with a pressure of 6 bars)

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

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 trademark , in conformity with article 11, paragraph 5:*

Company name: SOUCHIER – BOULLET SAS
 Parc Segro – 42 rue de Lamirault
 CS 20762
 77090 COLLEGIEN
 France

Company name: 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.

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9. Declared performances:

Harmonised technical specification: EN 12101-2003	Essential characteristics	Performance
	Nominal activation conditions / sensitivity, as :	
	Initiation device	Présent
	Opening mechanism	Présent
	Inputs and outputs	Présent
	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 extractions, as	
	Aerodynamic free area	$A_{ef} = A_v * C_v^{**}$
	Performance parameters under fire conditions, as :	
	Resistance to heat	B ₃₀₀ 30
	Mechanical stability	Δ A _{throat} < 10 %
	Reaction so fire :	
	Insulated panel or glass	A1
	Polycarbonate	B-s1 ; d0
	Performance under environmental conditions, as :	
	Opening under load (see tables)	SL ***
	Low ambient temperature	T(00)
	Stability under wind load	WL 1500
	Resistance to wind induced vibration (where included)	ω 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, Δ A _{throat} < 10 %

Free Aerodynamic surface calculation:

$$A_a = A_v * C_v^{**} \text{ or NPD}$$

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

Inclinaison 30° / 30°										
C _v without windshield	Side B (mm)									
	≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500	
Cote 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

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Inclinaison 45° / 45°										
C _v without windshiel	Side B (mm)									
	≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500	
Cote 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	0,32
	≥ 1400	0,40	0,40	0,39	0,39	0,37	0,35	0,34	0,33	0,32
	≥ 1500	0,40	0,40	0,39	0,39	0,37	0,35	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

Inclinaison 60° / 60°										
C _v without windshiel	Side B (mm)									
	≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500	
Cote 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: 0,85 m ≤ A ≤ 2,2 m

Side B parallel to the hinges: 0,7 m ≤ B ≤ 1,4 m

2 CYLINDERS PER LEAF				
2100 < A ≤ 2200	SL500 700 ≤ B ≤ 1019	SL250 1020 ≤ B ≤ 1215	SL150 1216 ≤ B ≤ 1400	
2000 < A < 2100	SL500 700 ≤ B ≤ 1042	SL250 1043 ≤ B ≤ 1242	SL150 1243 ≤ B ≤ 1400	
1900 < A < 2000	SL500 700 ≤ B ≤ 1066	SL250 1067 ≤ B ≤ 1271	SL150 1272 ≤ B ≤ 1400	
1800 < A < 1900	SL500 700 ≤ B ≤ 1092	SL250 1093 ≤ B ≤ 1302	SL150 1303 ≤ B ≤ 1400	
1700 < A < 1800	SL500 700 ≤ B ≤ 1120	SL250 1121 ≤ B ≤ 1335	SL150 1336 ≤ B ≤ 1400	
1600 < A < 1700	SL500 700 ≤ B ≤ 1151	SL250 1152 ≤ B ≤ 1372	SL150 1373 ≤ B ≤ 1400	
1500 < A < 1600	SL500 700 ≤ B ≤ 1183	SL250 1184 ≤ B ≤ 1400		
1400 < A < 1500	SL500 700 ≤ B ≤ 1230	SL250 1231 ≤ B ≤ 1400		
1300 < A < 1400	SL500 700 ≤ B ≤ 1272	SL250 1273 ≤ B ≤ 1400		
1200 < A < 1300	SL500 700 ≤ B ≤ 1318			SL250 1291 ≤ B ≤ 1400
1 CYLINDER PER LEAF				
850 ≤ A ≤ 1200	SL500 700 ≤ B ≤ 983	SL250 984 ≤ B ≤ 1173	SL150 1174 ≤ B ≤ 1290	SL0 1291 ≤ B ≤ 1400

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 21/05/2025

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