

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **CERTILIGHT 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 with the casements implanted on the same slope:
 - from 5° to 60° with the infill in glass with glazing beads
 - from 0° to 60° with the infill in glass with structural glazing aspect and in insulated double skin aluminium
- Dimensional range : (A and B are the outside dimensions of the product)
 - Side A parallel to the hinges : $0,95m \leq A \leq 2,530m$
 - Side B perpendicular to the hinges : $0,7m \leq B \leq 1,4m$
 - * $A_v = [side\ A - 0,181\ m] \times [(side\ B \times 2) - 0,181\ m]$ With $0,93\ m^2 \leq A_v^* \leq 6\ m^2$
- With foldable or fixed windshields, to ensure Cv coefficient declared in point 9
- With 280 mm high steel upstand, with or without insulation, to ensure Cv coefficient declared in point 9

3.3 Mode of operation : Fail safe opening and closing with air

with a pressure of 6 bars)

Service pressure : 0 bars (Possibility to use the NSHEV as daily ventilation unit

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)

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

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

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 – 6742-2.

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	
	Opening under (snow, wind) load	≤ 60 s
	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	$A_v = A_v^* \times C_v^{**}$	
Performance parameters under fire conditions, as:		
Resistance to heat	B300 30	
Mechanical stability	$\Delta A_{threat} < 10\%$	
Reaction to fire		
Insulated panel or glass Polycarbonate	A1 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)	$\omega_s: > 10Hz, \delta: > 0,1$	
Resistance to heat	B300 30	
Durability, as:		
Response delay (response time)	≤ 60 s	
Operational reliability	Re 1000 (+10 000)	
Performance parameters under fire conditions	≤ 60 s; $\Delta A_{threat} < 10\%$	

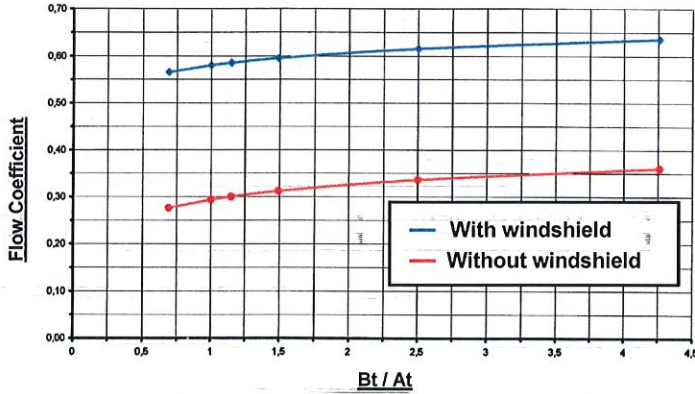
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Free Aerodynamic surface calculation :

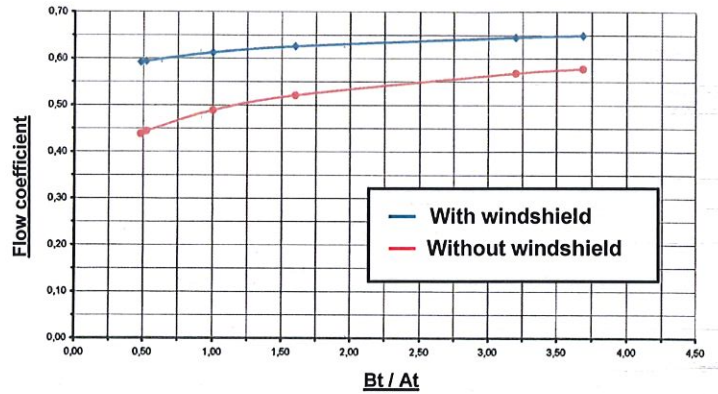
$A_a = A_v * x C_v^{**}$ or NPD

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

CERTILIGHT WITHOUT UPSTAND



CERTILIGHT WITH UPSTAND



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

Side A parallel to the hinges : 0,95m ≤ A ≤ 2,530m

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

2 CYLINDERS PER LEAF				
2400<A≤2530	SL500 700 ≤ B ≤ 954	SL250 955 ≤ B ≤ 1138	SL150 1139 ≤ B ≤ 1250	SL0 1251 ≤ B ≤ 1400
2300<A<2400	SL500 700 ≤ B ≤ 978	SL250 979 ≤ B ≤ 1167	SL150 1168 ≤ B ≤ 1282	SL0 1283 ≤ B ≤ 1400
2200<A<2300	SL500 700 ≤ B ≤ 998	SL250 999 ≤ B ≤ 1190	SL150 1191 ≤ B ≤ 1308	SL0 1309 ≤ B ≤ 1400
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				
950≤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 17/01/2019
In Lognes