

## Certificate of constancy of performance

0336 – CPR – 24091656 - 012

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product(s)

### **Natural smoke and heat exhaust ventilator with intended use to be installed as a component of natural smoke and heat exhaust system**

Specified by the commercial name(s)

**BLUESTEEL (THERM) / BLUECOIF (THERM) / BLUEBAC (THERM)**

**Energ(y)(ies) :**  
**PNEU / TREUIL / ELEC**

placed on the market under the name or trade mark

**BLUETEK**

**Siège social : ZI Nord les Pins – 37230 Luynes**

and produced in the manufacturing plant(s)

**HEXADOME : ZI Nord les Pins – 37230 Luynes / Rue Marc Sequin – 63600 Ambert**

**SIH : Le Haras – 57430 Sarralbe**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of standard(s)


### **EN 12101-2:2003**

under system 1 for the performances set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product

This certificate was first issued on 15<sup>th</sup> November 2006 under the Construction Products Directive 89/106/EEC (CPD) and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

TÜV Rheinland Nederland BV  
Westervoortsedijk 73, gebouw SB  
NL – 6827 AV Arnhem  
The Netherlands

Arnhem, 8<sup>th</sup> November 2016



C.C.M. van Houten, Operational Manager

**Certificate of constancy of performance**  
0336 – CPR – 24091656 - 012

**Annex 1**  
**Natural smoke and heat exhaust ventilator**

Commercial name :  
**BLUESTEEL (THERM) / BLUECOIF (THERM) / BLUEBAC (THERM)**

**Energ(y)(ies) :**  
**PNEU / TREUIL / ELEC**

Energy	Field of Application			
	PNEUMATIC	MECHANICAL	MECHANICAL	ELECTRIC
Identification of product(s) certified (reference)	Bluesteel (Therm) PNEU Bluecoif (Therm) PNEU Bluebac (Therm) PNEU	Bluesteel (Therm) TREUIL Bluecoif (Therm) TREUIL Bluebac (Therm) TREUIL	Bluesteel (Therm) MECA EXP Bluecoif (Therm) MECA EXP Bluebac (Therm) MECA EXP	Bluesteel (Therm) ELEC Bluecoif (Therm) ELEC Bluebac (Therm) ELEC
La min (mm)	800	900	900	1000
La max (mm)	2000	1700	1700	1400
Lo min (mm)	700	800	800	1000
Lo max (mm)	2500	2300	2300	2500
Opening angle (°)	165°	140°	140°	165°
Opening type	Type B	Type B	Type A	Type B
<b>Declared Values</b>				
Filling (reaction to fire)	PCA 10 to 20mm (B-s1,d0) PCA 16 to 20mm Pearl Inside (B-s1,d0) BSL (B-s2,d0) Dôme/Pyramide PC (B-s2,d0) Capot Alu Isolé (A1)		PCA 32mm (B-s2,d0) PCA 32 Pearl Inside (B-s2,d0) Dôme/Pyramide PMMA (E,d2) Dôme PRV (E)	
Aerodynamic free area	See aerodynamics report: 124/2004, 125/2004, 126/2004, 1368-CPD-T-073/2012-B, 1368-CPD-T-074/2012-B	See aerodynamics report: 1368-CPD-T-075/2012-B, 1368-CPD-T-076/2012-B, 1368-CPD-T-079/2012-B, 1368-CPD-T-252/2007-B 406/2005, 407/2005, 408/2005 CAPE AT 16-111/B	See aerodynamics report: 1368-CPD-T-075/2012-B, 1368-CPD-T-076/2012-B, 1368-CPD-T-079/2012-B, 1368-CPD-T-252/2007-B 406/2005, 407/2005, 408/2005 CAPE AT 16-111/B	See aerodynamics report: 124/2004, 125/2004, 126/2004, 1368-CPD-T-073/2012-B, 1368-CPD-T-074/2012-B
<b>For Pneumatic and Electric energy :</b> CAPE AT-05-022 Interprétation HEXADOME G4 V1      2007_01_16_note de synthèse du CSTB 2012_08_21_rapport cstb      2012_09_14_synthèse du cstb Synt-CSTB-G4-100x230-0804				
Reliability	Re 300 (all infill) Re 1000 (and filling by size)	Re 300	Re 300	Re 1 000
Dual function for ventilation	<b>PNEUMATIC :</b> Re 10 000 partial opening (stroke cylinder aeration of 300 or 500mm, electrical or pneumatical) (all infill) Re 10 000 total opening (and filling by size) <b>MECHANICAL :</b> Re 10.000 partial opening <b>ELECTRIC :</b> Re 10.000 partial opening			
Opening under load	SL 250 - SL 500 – SL 550	SL 50 - SL 250 - SL 500	SL 50 - SL 250 - SL 500	SL250–SL500-SL750-SL1000
Low ambient temperature	T(-15)	T(00)	T(00)	T(-15)
Wind load	WL 1500 WL 3000 (S ≤ 2,53m²)	WL1500 WL 3000 (S ≤ 2m²)	WL1500 WL 3000 (S ≤ 2m²)	WL 1500
Resistance to wind induced vibration satisfactory with deflectors made of galvanized sheet				
Resistance to heat	B 300	B 300	B 300	B 300

- end of certificate -

Certificate 24091656-012  
8<sup>th</sup> November 2016  
Page 2 of 2



**TÜVRheinland®**  
Precisely Right.



**DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS**

According to Construction Products Council Directive UE N°305/2011

**Product range designation (§2\*)**

**BLUESTEEL THERM ELEC  
BLUECOIF THERM ELEC**

**Products alternatives concerned :**

**BLUESTEEL THERM ELEC STD/MAX (STRAIGHT)  
BLUECOIF THERM ELEC STD (STRAIGHT)**

**Intended use (§3\*) :**

Facade  Roof

§1\* : The full identification of the product is based on :  
- its order number and date of production indicated on the tracking sticker  
- its full designation : product range designation + alternative + infill + dimensions

DOP\_EN12101-2\_BLUESTEEL THERM ELEC

N°:6,01

**Name, registered trade name or trade mark and contact adress of manufacturer (§4\*)**

Name : BLUETEK (Siège social : ZI Nord les Pins - 37230 Luynes)

Production units locations : HEXADOME : H001-ZI Nord les Pins - 37230 Luynes/H002-Rue Marc Seguin - 63600 Ambert // SIH : S001-Le Haras - 57430 Sarralbe // SODILIGHT : S002-Route de Saulon - 21220 Gevrey-Chambertin

**Product description (§3\*)**

- Single opening flap, electric mechanism, opening angle 165°, installed on roof
- Steel upstand Height mini 350mm or covering upstand height 150 mm (Height of the combinaison formed by the existing upstand and the covering upstand must be 300 mm mini)
  - STD : Without windshields
  - MAX : With windshields

**Intended use of the construction product, in accordance with the applicable harmonised technical specification (§3\*)**

Maximum authorized inclination of the plan to support the upstand :

- No laying direction for slope from 0 to 18% (0 to 10°)
- Hinges at the bottom of the slope for slope from > 18 to 40% (10 to 22°)

Product Range : Dim. Com. mini = 1,0x1,0 m; Dim. Com. max = 1,4x2,0 m

**Possible options : (§3\*)**

- Contactors open/close
- Fall protection system : Griddle without impact on aerualic coefficient.
- Daily ventilation by half opening of one flap

**System or systems of assessment and verification of constancy of the construction product : (§6 7 \*)**

The certificate of constancy of performance issued by the notified product certified body TÜV N° 0336 in accordance to the Annex ZA of the norm EN 12 101-2 2003 following system 1 on the basis of initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control, Certificate N°0336-CPR-24091656-012

**Declared performances (§9\*)**

		Référence EN 12 101-2	
Aerodynamic free are Aa	Please seen below table	§ 6. annex B	
Automatic opening temperature	≥ 68°C	§ 4.1	
Opening Type	Type B	§ 4.3	
Reliability	Re 1 000 (10 000 for ventilation, half opening)	§ 7.1, annex C	
Opening under load	SL250, SL550, SL750 or SL1000 (refer to table below)	§ 7.2, annex D	
Low ambient temperature	T (-15)	§ 7.3, annex E	
Stability under wind load	WL1500	§ 7.4, annex F	
Resistance to heat	B 300	§ 7.5, annex G	
Fire reaction	PCA 10 to 20mm (B-s2,d0) - PCA 32mm (B-s2,d0) - PCA 16 to 20mm Pearl Inside (B-s2,d0) - PCA 32mm Pearl Inside (B-s2, d0) - BSL (B-s2,d0) - PMMA Dome/Pyramid (E,d2) - PC Dome/Pyramid (B-s2,d0) - PRV Dome (E) - Standard aluminium cover (A1)	§ 7.5.2.1	

*In case of questions, test report references, dates of issuance and names of laboratories can be given by the notifying body to the surveillance authority.*

Commercial dimensions			STD	MAX	PCA 16										PCA 20/32 - BSL - CAPOT ALU STANDARD - PCA 16 PEARL INSIDE										
					Intensité (A) et Voltage (V) en fonction de la surcharge neige										Intensité (A) et Voltage (V) en fonction de la surcharge neige										
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL 250	SL 550	SL 750	SL 1000	Voltage	SL 250	SL 550	SL 750	SL 1000	Voltage	SL 250	SL 550	SL 750	SL 1000	Voltage	SL 250	SL 550	SL 750	SL 1000	Voltage
cm	cm	m²	m²	m²	mm	A	A	A	A	V	A	A	A	A	V	A	A	A	A	V	A	A	A	A	V
100/100	100/100	1,00	0,55	0,61	150	4,50	4,50	4,50	4,50	24	2,50	2,50	2,50	2,50	48	4,50	4,50	4,50		24	2,50	2,50	2,50		48
110/110	110/110	1,21	0,67	0,74	150	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50	4,50		24	2,50	2,50	2,50		48
120/120	120/120	1,44	0,79	0,89	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50	4,50		24	2,50	2,50	2,50		48
130/130	130/130	1,69	0,93	1,05	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50	4,50		24	2,50	2,50	2,50		48
140/140	140/140	1,96	1,08	1,23	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
100/140	100/140	1,40	0,73	0,87	200	4,50	4,50	4,50	4,50	24	2,50	2,50	2,50	2,50	48	4,50	4,50			24	2,50	2,50			48
100/150	100/150	1,50	0,78	0,93	200	4,50	4,50	4,50	4,50	24	2,50	2,50	2,50	2,50	48	4,50	4,50			24	2,50	2,50			48
100/200	100/200	2,00	1,00	1,26	200	4,50	4,50	4,50	4,50	24	2,50	2,50	2,50	2,50	48	4,50	4,50			24	2,50	2,50			48
120/140	120/140	1,68	0,92	1,04	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/160	120/160	1,92	1,06	1,19	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/170	120/170	2,04	1,12	1,26	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/180	120/180	2,16	1,10	1,36	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/200	120/200	2,40	1,22	1,51	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/220	120/220	2,64	1,35	1,66	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/240	120/240	2,88	1,47	1,81	200	4,50	4,50			24	2,50	2,50			48	4,50	4,50			24	2,50	2,50			48
120/250	120/250	3,00	1,53	1,89	200	4,50	4,50			24	2,50	2,50			48	4,50	4,50			24	2,50	2,50			48
140/160	140/160	2,24	1,23	1,41	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
140/200	140/200	2,80	1,46	1,76	200	4,50	4,50			24	2,50	2,50			48	4,50	4,50			24	2,50	2,50			48

Values of catalogue products - For other dimensions, please consult us  
Dim. Lum. : Light dimensions (Top opening of the upstand) X : configuration not available (1) Cartridge for the thermofuse  
Dim. Com. : Commercial dimensions (Bottom opening of the upstand)

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 Philippe FRITZINGER, President of BLUETEK  
The 10/05/2017 in Luynes



\* Chapter § numbers according to annexe 3 of CPR UE N°305/2011



**DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS**

According to Construction Products Council Directive UE N°305/2011

**Product range designation (§2\*)**

**BLUESTEEL THERM ELEC  
BLUECOIF THERM ELEC**

**Products alternatives concerned :**

**BLUESTEEL THERM ELEC STD/MAX (CURVED)  
BLUECOIF THERM ELEC MAX (CURVED)**

**Intended use (§3\*) :**

Facade  Roof

§1\* : The full identification of the product is based on :  
- its order number and date of production indicated on the tracking sticker  
- its full designation : product range designation + alternative + inflit + dimensions

DOP\_EN12101-2\_BLUESTEEL THERM ELEC

N°:6,02

**Name, registered trade name or trade mark and contact adress of manufacturer (§4\*)**

Name : BLUETEK (Siège social : ZI Nord les Pins - 37230 Luynes)

Production units locations : HEXADOME : H001-ZI Nord les Pins - 37230 Luynes/H002-Rue Marc Seguin - 63600 Ambert // SIH : S001-Le Haras - 57430 Sarralbe // SODILIGHT : S002-Route de Saulon - 21220 Gevrey-Chambertin

**Product description (§3\*)**

- Single opening flap, electric mechanism opening angle 165°, installed on roof
- Steel upstand Height mini 350mm or covering upstand Height 300 mm
  - STD : Without windshields
  - MAX :With windshields

**Intended use of the construction product, in accordance with the applicable harmonised technical specification (§3\*)**

Maximum authorized inclination of the plan to support the upstand :

- No laying direction for slope from 0 to 18% (0 to 10°)
- Hinges at the bottom of the slope for slope from > 18 to 40% (10 to 22°)

**Product Range : Dim. Com. mini : 1,1x1,1m; Dim. Com. max : 1,5x2,1m**

**Possible options : (§3\*)**

- Contactors open/close
- Fall protection system : Griddle without impact on aeraulic coefficient.
- Daily ventilation by half opening of one flap

**System or systems of assessment and verification of constancy of the construction product : (§6 7 \*)**

The certificate of constancy of performance issued by the notified product certified body TÜV N° 0336 in accordance to the Annex ZA of the norm EN 12 101-2 2003 following system 1 on the basis of initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control, Certificate N°0336-CPR-24091656-012

**Declared performances (§9\*)**

		Référence EN 12 101-2	
Aerodynamic free are Aa	Please seen below table	§ 6. annex B	
Automatic opening temperature	≥ 68°C	§ 4.1	
Opening Type	Type B	§ 4.3	
Reliability	Re 1 000 (10 000 for ventilation, half opening)	§ 7.1, annex C	
Opening under load	SL250, SL550, SL750 or SL1000 (refer to table below)	§ 7.2, annex D	
Low ambient temperature	T (-15)	§ 7.3, annex E	
Stability under wind load	WL1500	§ 7.4, annex F	
Resistance to heat	B 300	§ 7.5, annex G	
Fire reaction	PCA 10 to 20mm (B-s2,d0) - PCA 32mm (B-s2,d0) - PCA 16 to 20mm Pearl Inside (B-s2,d0) - PCA 32mm Pearl Inside (B-s2, d0) - BSL (B-s2,d0) - PMMA Dome/Pyramid (E,d2) - PC Dome/Pyramid (B-s2,d0) - PRV Dome (E) - Standard aluminium cover (A1)	§ 7.5.2.1	

*In case of questions, test report references, dates of issuance and names of laboratories can be given by the notifying body to the surveillance authority.*

Commercial dimensions			STD	MAX	PCA 16										PCA 20/32 - BSL - CAPOT ALU STANDARD - PCA 16 PEARL INSIDE										
					Intensité (A) et Voltage (V) en fonction de la surcharge neige										Intensité (A) et Voltage (V) en fonction de la surcharge neige										
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL 250	SL 550	SL 750	SL 1000	Voltage	SL 250	SL 550	SL 750	SL 1000	Voltage	SL 250	SL 550	SL 750	SL 1000	Voltage	SL 250	SL 550	SL 750	SL 1000	Voltage
cm	cm	m²	m²	m²	mm	A	A	A	A	V	A	A	A	A	V	A	A	A	A	V	A	A	A	A	V
110/110	100/100	1,21	0,75	0,90	150	4,50	4,50	4,50	4,50	24	2,50	2,50	2,50	2,50	48	4,50	4,50	4,50		24	2,50	2,50	2,50		48
120/120	110/110	1,44	0,89	1,07	150	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50	4,50		24	2,50	2,50	2,50		48
130/130	120/120	1,69	1,03	1,27	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50	4,50		24	2,50	2,50	2,50		48
140/140	130/130	1,96	1,20	1,47	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50	4,50		24	2,50	2,50	2,50		48
150/150	140/140	2,25	1,37	1,69	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/140	110/130	1,68	1,02	1,26	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/160	110/150	1,92	1,17	1,44	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/170	110/160	2,04	1,24	1,53	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/180	110/170	2,16	1,32	1,62	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/200	110/190	2,40	1,44	1,80	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
120/240	110/230	2,88	1,73	2,16	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
140/160	130/150	2,24	1,37	1,68	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48	4,50	4,50			24	2,50	2,50			48
140/200	130/190	2,80	1,65	2,10	275	4,50	4,50			24	2,50	2,50			48	4,50	4,50			24	2,50	2,50			48
150/200	140/190	3,00	1,77	2,25	200	4,50	4,50			24	2,50	2,50			48	4,50	4,50			24	2,50	2,50			48

Values of catalogue products - For other dimensions, please consult us  
Dim. Lum. : Light dimensions (Top opening of the upstand)  
Dim. Com. : Commercial dimensions (Bottom opening of the upstand)

□ : configuration not available  
X : configuration available

(1) Cartridge for the thermofuse

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 Philippe FRITZINGER, President of BLUETEK  
The 10/05/2017 in Luynes



\* Chapter § numbers according to annexe 3 of CPR UE N°305/2011



**DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS**

According to Construction Products Council Directive UE N°305/2011

**Product range designation (§2\*)**

**BLUESTEEL THERM ELEC  
BLUECOIF THERM ELEC**

**Products alternatives concerned :**

**BLUESTEEL THERM ELEC STD/MAX (STRAIGHT)  
BLUECOIF THERM ELEC STD (STRAIGHT)**

**Intended use (§3\*) :**  Facade  Roof

§1\* : The full identification of the product is based on :  
- its order number and date of production indicated on the tracking sticker  
- its full designation : product range designation + alternative + infill + dimensions

DOP\_EN12101-2\_BLUESTEEL THERM ELEC

N°:6,03

**Name, registered trade name or trade mark and contact adress of manufacturer (§4\*)**

Name : BLUETEK (Siège social : ZI Nord les Pins - 37230 Luynes)

Production units locations : HEXADOME : H001-ZI Nord les Pins - 37230 Luynes/H002-Rue Marc Seguin - 63600 Ambert // SIH : S001-Le Haras - 57430 Sarralbe // SODILIGHT : S002-Route de Saulon - 21220 Gevrey-Chambertin

**Product description (§3\*)**

- Single opening flap, electric mechanism, opening angle 165°, installed on roof
- Steel upstand Height mini 350mm or covering upstand height 150 mm (Height of the combinaison formed by the existing upstand and the covering upstand must be 300 mm mini)
  - STD : Without windshields
  - MAX : With windshields

**Intended use of the construction product, in accordance with the applicable harmonised technical specification (§3\*)**

Maximum authorized inclination of the plan to support the upstand :

- No laying direction for slope from 0 to 18% (0 to 10°)
- Hinges at the bottom of the slope for slope from > 18 to 40% (10 to 22°)

Product Range : Dim. Com. mini = 1,0x1,0 m; Dim. Com. max = 1,4x2,0 m

**Possible options : (§3\*)**

- Contactors open/close
- Fall protection system : Griddle without impact on aeraulic coefficient.
- Daily ventilation by half opening of one flap

**System or systems of assessment and verification of constancy of the construction product : (§6 7 \*)**

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**Declared performances (§9\*)**

		Référence EN 12 101-2	
Aerodynamic free are Aa	Please seen below table	§ 6. annex B	
Automatic opening temperature	≥ 68°C	§ 4.1	
Opening Type	Type B	§ 4.3	
Reliability	Re 1 000 (10 000 for ventilation, half opening)	§ 7.1, annex C	
Opening under load	SL250, SL550, SL750 or SL1000 (refer to table below)	§ 7.2, annex D	
Low ambient temperature	T (-15)	§ 7.3, annex E	
Stability under wind load	WL1500	§ 7.4, annex F	
Resistance to heat	B 300	§ 7.5, annex G	
Fire reaction	PCA 10 to 20mm (B-s2,d0) - PCA 32mm (B-s2,d0) - PCA 16 to 20mm Pearl Inside (B-s2,d0) - PCA 32mm Pearl Inside (B-s2, d0) - BSL (B-s2,d0) - PMMA Dome/Pyramid (E,d2) - PC Dome/Pyramid (B-s2,d0) - PRV Dome (E) - Standard aluminium cover (A1)	§ 7.5.2.1	

*In case of questions, test report references, dates of issuance and names of laboratories can be given by the notifying body to the surveillance authority.*

Commercial dimensions			STD	MAX		DOME/PYRAMIDE DOUBLE PAROIS - DOME/PYRAMIDE TRIPLE PAROIS - PCA 20 PEARL INSIDE									
						Intensité (A) et Voltage (V) en fonction de la surcharge neige									
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL 250	SL 550	SL 750	SL 1000	Voltage	SL 250	SL 550	SL 750	SL 1000	Voltage
cm	cm	m²	m²	m²	mm	A	A	A	A	V	A	A	A	A	V
100/100	100/100	1,00	0,55	0,61	150	4,50	4,50	4,50		24	2,50	2,50	2,50		48
110/110	110/110	1,21	0,67	0,74	150	4,50	4,50	4,50		24	2,50	2,50	2,50		48
120/120	120/120	1,44	0,79	0,89	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48
130/130	130/130	1,69	0,93	1,05	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48
140/140	140/140	1,96	1,08	1,23	200	4,50	4,50			24	2,50	2,50			48

Values of catalogue products - For other dimensions, please consult us

Dim. Lum. : Light dimensions (Top opening of the upstand)

Dim. Com. : Commercial dimensions (Bottom opening of the upstand)

□ : configuration not available (1) Cartridge for the thermofuse

X : configuration available

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 Philippe FRITZINGER, President of BLUETEK  
The 10/05/2017 in Luynes



\* Chapter § numbers according to annexe 3 of CPR UE N°305/2011

Name, registered trade name or trade mark and contact adress of manufacturer (§4\*)

Name : BLUETEK (Siège social : ZI Nord les Pins - 37230 Luynes)

Production units locations : HEXADOME : H001-ZI Nord les Pins - 37230 Luynes/H002-Rue Marc Seguin - 63600 Ambert // SIH : S001-Le Haras - 57430 Sarralbe // SODILIGHT : S002-Route de Saulon - 21220 Gevrey-Chambertin

**Product description (§3\*)**

- Single opening flap, electric mechanism opening angle 165°, installed on roof
- Steel upstand Height mini 350mm or covering upstand Height 300 mm
  - STD : Without windshields
  - MAX : With windshields

**Intended use of the construction product, in accordance with the applicable harmonised technical specification (§3\*)**

Maximum authorized inclination of the plan to support the upstand :

- No laying direction for slope from 0 to 18% (0 to 10°)
- Hinges at the bottom of the slope for slope from > 18 to 40% (10 to 22°)

Product Range : Dim. Com. mini : 1,1x1,1m; Dim. Com. max : 1,5x2,1m

**Possible options : (§3\*)**

- Contactors open/close
- Fall protection system : Griddle without impact on aeraulic coefficient.
- Daily ventilation by half opening of one flap

**System or systems of assessment and verification of constancy of the construction product : (§6 7 \*)**

The certificate of constancy of performance issued by the notified product certified body TÜV N° 0336 in accordance to the Annex ZA of the norm EN 12 101-2 2003 following system 1 on the basis of initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control, Certificate N°0336-CPR-24091656-012

**Declared performances (§9\*)**

		Référence EN 12 101-2	
Aerodynamic free are Aa	Please seen below table	§ 6. annex B	
Automatic opening temperature	≥ 68°C	§ 4.1	
Opening Type	Type B	§ 4.3	
Reliability	Re 1 000 (10 000 for ventilation, half opening)	§ 7.1, annex C	
Opening under load	SL250, SL550, SL750 or SL1000 (refer to table below)	§ 7.2, annex D	
Low ambient temperature	T (-15)	§ 7.3, annex E	
Stability under wind load	WL1500	§ 7.4, annex F	
Resistance to heat	B 300	§ 7.5, annex G	
Fire reaction	PCA 10 to 20mm (B-s2,d0) - PCA 32mm (B-s2,d0) - PCA 16 to 20mm Pearl Inside (B-s2,d0) - PCA 32mm Pearl Inside (B-s2, d0) - BSL (B-s2,d0) - PMMA Dome/Pyramid (E,d2) - PC Dome/Pyramid (B-s2,d0) - PRV Dome (E) - Standard aluminium cover (A1)	§ 7.5.2.1	

*In case of questions, test report references, dates of issuance and names of laboratories can be given by the notifying body to the surveillance authority.*

Commercial dimensions			STD	MAX	DOME/PYRAMIDE DOUBLE PAROIS - DOME/PYRAMIDE TRIPLE PAROIS - PCA 20 PEARL INSIDE										
					Intensité (A) et Voltage (V) en fonction de la surcharge neige										
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL 250	SL 550	SL 750	SL 1000	Voltage	SL 250	SL 550	SL 750	SL 1000	Voltage
cm	cm	m <sup>2</sup>	m <sup>2</sup>	m <sup>2</sup>	mm	A	A	A	A	V	A	A	A	A	V
110/110	100/100	1,21	0,75	0,90	150	4,50	4,50	4,50		24	2,50	2,50	2,50		48
120/120	110/110	1,44	0,89	1,07	150	4,50	4,50	4,50		24	2,50	2,50	2,50		48
130/130	120/120	1,69	1,03	1,27	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48
140/140	130/130	1,96	1,20	1,47	200	4,50	4,50	4,50		24	2,50	2,50	2,50		48
150/150	140/140	2,25	1,37	1,69	200	4,50	4,50			24	2,50	2,50			48

Values of catalogue products - For other dimensions, please consult us  
 Dim. Lum. : Light dimensions (Top opening of the upstand)  
 Dim. Com. : Commercial dimensions (Bottom opening of the upstand)

: configuration not available  
 : configuration available  
 (1) Cartridge for the thermofuse

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 Philippe FRITZINGER, President of BLUETEK  
 The 10/05/2017 in Luynes

