

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 15th 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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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, 8th 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
Declared Values				
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
For Pneumatic and Electric energy : 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	PNEUMATIC : 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) MECHANICAL : Re 10.000 partial opening ELECTRIC : 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
8th November 2016
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TÜVRheinland®
Precisely Right.

BLUEBAC THERM ELEC

Products alternatives concerned :

- BLUEBAC THERM ELEC STD/MAX (DR)**
- BLUEBAC THERM ELEC STD/MAX (B1)**
- BLUEBAC THERM ELEC STD/MAX (B2)**

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

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
- Polyester upstand Height mini 300mm
 - 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 :

- Hinges at the up part of the slope for slope from 0 to 10% (0 to 5°)
- Hinges at the bottom of the slope for slope from > 10 to 40% (5 to 22°)

Product Range : Dim. Com. mini = 1,0x2,0 m; Dim. Com. max = 1,5x1,5m or 1,5x1,8m

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
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
100/200	100/200	2,00	1,00	1,26	200	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
150/180	130/160	2,70	1,62	1,81	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

***Avec parevents continus**

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 06/03/2017 in Luynes





DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

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

Product range designation (§2*)

BLUEBAC THERM ELEC

Products alternatives concerned :

- BLUEBAC THERM ELEC STD/MAX (DR)**
- BLUEBAC THERM ELEC STD/MAX (B1)**
- BLUEBAC THERM ELEC STD/MAX (B2)**

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DOP_EN12101-2_BLUEBAC THERM ELEC

N°:6,06

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

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Possible options : (§3*)

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

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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
110/110	100/100	1,32	0,75	0,90	150	4,50	4,50	4,50		24	2,50	2,50	2,50		48
150/150	140/140	1,69	1,37	1,69	200	4,50	4,50			24	2,50	2,50			48

***Avec parevents continus**

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

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Signed for and on behalf of the manufacturer by Philippe FRITZINGER, President of BLUETEK
 The 06/03/2017 in Luynes

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