

## Certificate of constancy of performance

0336 – CPR – 24091656 - 006

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) XP / BLUECOIF (THERM) XP / BLUEBAC (THERM) XP**

**Energ(y)(ies) :**

**PNEU + ACCES / TREUIL + ACCES / ELEC + ACCES**

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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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, 9<sup>th</sup> May 2016



C.C.M. van Houten, Operational Manager

# Certificate of constancy of performance

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## Annex 1

### Natural smoke and heat exhaust ventilator

Commercial name :

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

**Energ(y)(ies) :**

**PNEU + ACCES / TREUIL + ACCES / ELEC + ACCES**

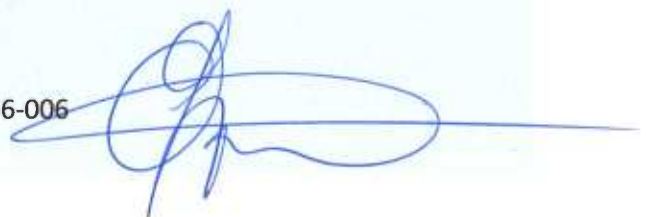
Field of Application			
Energy	PNEUMATIC	MECHANICAL	ELECTRIC
Identification of product(s) certified (reference)	Bluesteel (Therm) -; Bluecoif (Therm) -; Bluebac (Therm) -; -PNEU + ACCES	Bluesteel (Therm) -; Bluecoif (Therm) -; Bluebac (Therm) -; -TREUIL + ACCES	Bluesteel (Therm) -; Bluecoif (Therm) -; Bluebac (Therm) -; -ELEC + ACCES
La min (mm)	1000	900	1000
La max (mm)	1200	1200	1200
Lo min (mm)	1000	900	1000
Lo max (mm)	1200	1200	1200
Opening angle (°)	140	140	120
Opening type	Type B	Type B	Type B
Declared Values			
Filling (reaction to fire)	PCA 10 to 20mm (B-s1,d0) Dôme/Pyramide PMMA (E,d2) Dôme/Pyramide PC (B-s2,d0) Capot Alu Isolé (A1)	PCA 32mm (B-s2,d0) BSL (B-s2,d0) Dôme PRV (E)	
	PCA 16 mm Pearl Inside (B-s1,d0)	PCA 16 to 20mm Pearl Inside (B-s1,d0)	PCA 16 mm Pearl Inside (B-s1,d0)
Aerodynamic free area	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: 1368-CPD-T-198/2008-B CAPE-AT-10-088/B, CAPE-AT-10-088/B/CPLT
Reliability	Re 1000 (and filling by size)	Re 300	Re 1000 (and filling by size)
Dual function for ventilation	Re 1000 (and filling by size)	Re 10.000 partial opening	Re 10.000 partial opening
Opening under load	SL 250 - SL 550	SL 250 - SL 500	SL 250 - SL 500
Low ambient temperature	T(-15)	T(0)	T(0)
Wind load	WL 1500	WL 1000 WL 1500 ( $S \leq 1 \text{ m}^2$ )	WL 1500
	Resistance to wind induced vibration satisfactory with deflectors made of galvanized sheet		
Resistance to heat	B300	B300	B300

- end of certificate -

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9<sup>th</sup> May 2016

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

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

**Product range designation (§2\*)**

**BLUEBAC PNEU + ACCES**

**Products alternatives concerned :**

**BLUEBAC PNEU + ACCES STD**

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 + inflill + dimensions

DOP\_EN12101-2\_BLUEBAC PNEU + ACCES

N°:7,05

**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, pneumatic mechanism, opening angle 140°, installed on roof
- Polyester upstand Height mini 300mm
- STD : Without windshields

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

Maximum authorized inclination of the device :

- Hinges parallel to the ridge : 3° (5%)
- Hinges perpendicular to the ridge for S/M/L models: 25°(46%) (inclination limit 15° or 26% in case of coupling between pneumatic and electric cylinder)
- Hinges perpendicular to the ridge for XL model : 10°(18%)

Product Range : Dim. Com. mini : 1,1x1,1m; Dim. Com. max : 1,3x1,3m

**Possible options : (§3\*)**

- Contactors open/close
- Fall protection system : Griddle without impact on aeraulic coefficient.
- Cross for roof access
- Adaption for ladder

**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-RPC-24091656-006

**Declared performances (§9\*)**

		Reference EN 12 101-2	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.
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	§ 7.1, annex C	
Opening under load	SL 250 - SL 550 (Please seen below table)	§ 7.2, annex D	
Low ambient temperature	T (-15)	§ 7.3, annex E	
Stability under wind load	WL 1500	§ 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 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	

Commercial dimensions			STD	MAX	PCA 10/16								CAPOT ALU STANDARD								
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	Pneumatic cylinder				CO2 weight (1)				Pneumatic cylinder				CO2 weight (1)			
						V. total	SL 250	V. total	SL 550	SL 250	SL 550	V. total	SL 250	V. total	SL 550	SL 250	SL 550				
cm	cm	m²	m²	m²	mm	l	P bar	l	P bar	g	g	l	P bar	l	P bar	g	g				
110/110	100/100	1,21	0,61			1,67	12	1,67	22	40	40	1,67	13	1,67	23	40	40				
120/120	100/100	1,44	0,72			1,67	12	1,67	22	40	40	1,67	13	1,67	23	40	40				
120/120	110/110	1,44	0,72			1,67	16			40		1,67	18			40					
130/130	120/120	1,69	0,85			2,07	11	2,07	19	40	80	2,07	12			40					

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 26/06/2017 in Luynes



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