

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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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.



DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

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

Product range designation (§2*)

**BLUESTEEL PNEU
BLUECOIF PNEU**

Products alternatives concerned :

**BLUESTEEL PNEU STD/MAX (CURVED)
BLUECOIF PNEU 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 + infill + dimensions

DOP_EN12101-2_BLUESTEEL PNEU

N°:15,01

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 : 5001-Le Haras - 57430 Sarralbe // SODILIGHT : S002-Route de Saulon - 21220 Gevrey-Chambertin

Product description (§3*)

- Single opening flap, with one pneumatic cylinder, opening angle 165°
- Upstand Height mini 300 mm 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 device :

- Hinges at the up part of the slope, parrallel to the ridge : 3° (5%)
 - Hinges at the bottom part of the slope, parrallel to the ridge : 25° (46%)
 - Hinges perpendicular to the ridge : 25° (46%)
- Limit inclination 15° or 26% in case of pneumatic and electric cylinder

Product Range : Dim. Com. mini 0,9x0,9m, Dim. Com. max 2,0x2,0m or 2,0x2,1m

Possible options : (§3*)

- Contactors open/close
- Fall protection system : Griddle without impact on aeraulic coefficient.
- Pneumatic ventilation 6 bar (complete opening or half opening) or electric (half opening)

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 300 Re 1 000 (according infill and dimensions) Re 10 000 (for ventilation half opening or ventilation complete opening (according infill and dimensions))	§ 7.1, annex C	
Opening under load	SL 250 - SL 500 - SL 550 (refer to table below)	§ 7.2, annex D	
Low ambient temperature	T(-15)	§ 7.3, annex E	
Stability under wind load	WL1000 ou WL 1500 for S (Top opening of the upstand) ≤ 2,53 m²	§ 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 à 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 10/16											
						Pneumatic cylinder				CO2 weight (1)						
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	V. total	SL 250	V. total	SL 500	V. total	SL 550	SL 250	SL 500	SL 550		
cm	cm	m²	m²	m²	mm	l	P bar	l	P bar	l	P bar	g	g	g		
90/90	80/80	0,81	0,50	0,60	150	0,73	15	0,73	20	0,73	20	25	40	40		
100/100	90/90	1,00	0,62	0,74	150	0,73	15	0,73	25	1,43	20	25	80	80		
110/110	100/100	1,21	0,75	0,90	150	0,83	15	0,83	25	1,63	20	40	80	80		
120/120	110/110	1,44	0,89	1,07	150	0,83	20	1,63	20	1,63	20	40	80	80		
130/130	120/120	1,69	1,03	1,27	200	0,83	25	1,63	20	1,63	25	80	80	80		
140/140	130/130	1,96	1,20	1,47	200	1,63	15	1,63	25	2,10	25	80	150	150		
150/150	140/140	2,25	1,37	1,69	200	2,32	15	2,32	25	2,32	25	80	150	150		
160/160	150/150	2,56	1,56	1,95	275	2,32	15	2,32	25	2,93	25	80	150	150		
170/170	160/160	2,89	1,73	2,20	275	2,32	20	2,93	25	2,93	25	150	150	150		
180/180	170/170	3,24	1,88	2,46	275	2,32	20					150				
190/190	180/180	3,61	2,02	2,45	275	3,60	15					150				
200/200	190/190	4,00	2,16	2,72	275	3,60	20					150				
100/140	90/130	1,40	0,85	1,05	200	0,73	20	1,43	20	1,43	20	40	80	80		
100/150	90/140	1,50	0,92	1,13	200	0,73	20	1,43	20	1,43	20	40	80	80		
100/200	90/190	2,00	1,20	1,50	200	1,43	15	1,43	25	1,43	25	80	150	150		
120/140	110/130	1,68	1,02	1,26	200	0,83	25	1,63	20	1,63	20	80	80	80		
120/160	110/150	1,92	1,17	1,44	200	0,83	25	1,63	25	1,63	25	80	150	150		
120/170	110/160	2,04	1,24	1,53	200	0,83	25	1,63	25	1,63	25	80	150	150		
120/180	110/170	2,16	1,32	1,62	200	1,63	15	1,63	25	1,63	25	80	150	150		
120/200	110/190	2,40	1,44	1,80	200	1,63	15	1,63	25	2,10	25	80	150	150		
120/220	110/210	2,64	1,58	1,98	200	1,63	20	2,10	25	2,10	25	80	150	150		
120/240	110/230	2,88	1,73	2,16	200	1,63	20	2,10	25	2,10	25	80	150	150		
120/250	110/240	3,00	1,56	2,13	200	1,63	20	2,10	25	2,10	25	80	150	150		
140/160	130/150	2,24	1,37	1,68	200	1,63	20	2,10	25	2,10	25	80	150	150		
140/200	130/190	2,80	1,65	2,10	275	1,63	20	2,10	25			80	150			
150/200	140/190	3,00	1,77	2,25	200	2,32	20	2,93	25	2,93	25	150	150	150		
160/200	150/190	3,20	1,86	2,43	275	2,32	20	2,93	25			150	150			

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 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*)

**BLUESTEEL PNEU
BLUECOIF PNEU**

Products alternatives concerned :

- BLUESTEEL PNEU STD/MAX (STRAIGHT)
- BLUECOIF PNEU 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 + inflill + dimensions

DOP_EN12101-2_BLUESTEEL PNEU

N°15,04

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 140°, installed on roof
- Steel upstand Height mini 350mm
 - 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 device :

- Hinges at the up part of the slope, parallel to the ridge : 3° (5%)
- Hinges at the bottom part of the slope, parallel to the ridge : 25° (46%)
- Hinges perpendicular to the ridge : 25° (46%)

Limit inclination 15° or 26% in case of pneumatic and electric cylinder

Product Range : Dim. Com. mini 0,8x0,8m, Dim. Com. max 1,9x1,9m or 1,9x2,0m

Possible options : (§3*)

- Contactors open/close
- Fall protection system : Griddle without impact on aerulic coefficient.
- Pneumatic ventilation 6 bar (complete opening or half opening) or electric (half opening)

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

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Declared performances (§9*)

Aerodynamic free are Aa		Please seen below table	Reference EN 12 101-2
Automatic opening temperature		≥ 68°C	§ 6. annex B
Opening Type		Type B	§ 4.1
Reliability		Re 300 Re 1 000 (according inflill and dimensions) Re 10 000 (for ventilation half opening or ventilation complete opening (according inflill and dimensions))	§ 4.3
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Low ambient temperature		T(-15)	§ 7.2, annex D
Stability under wind load		WL1000 ou WL 1500 for S (Top opening of the upstand) ≤ 2,53 m²	§ 7.3, annex E
Resistance to heat		B 300	§ 7.4, annex F
Fire reaction		PCA 10 to 20mm (B-s2,d0) - PCA 32mm (B-s2,d0) - PCA 16 à 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

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Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	V. total	SL 250	V. total	SL 500	V. total	SL 550	SL 250	SL 500	SL 550	
cm	cm	m²	m²	m²	mm	l	P bar	l	P bar	l	P bar	g	g	g	
80/80	80/80	0,64	0,35	0,39	150	0,73	15	0,73	20	0,73	20	25	40	40	
90/90	90/90	0,81	0,45	0,49	150	0,73	15	0,73	25	1,43	20	25	80	80	
100/100	100/100	1,00	0,55	0,61	150	0,83	15	0,83	25	1,63	20	40	80	80	
110/110	110/110	1,21	0,67	0,74	150	0,83	20	1,63	20	1,63	20	40	80	80	
120/120	120/120	1,44	0,79	0,89	200	0,83	25	1,63	20	1,63	25	80	80	80	
130/130	130/130	1,69	0,93	1,05	200	1,63	15	1,63	25	2,10	25	80	150	150	
140/140	140/140	1,96	1,08	1,23	200	2,32	15	2,32	25	2,32	25	80	150	150	
150/150	150/150	2,25	1,24	1,42	275	2,32	15	2,32	25	2,93	25	80	150	150	
160/160	160/160	2,56	1,38	1,61	275	2,32	20	2,93	25	2,93	25	150	150	150	
170/170	170/170	2,89	1,56	1,85	275	2,32	20					150			
180/180	180/180	3,24	1,72	2,01	275	3,60	15					150			
80/130	80/130	1,04	0,54	0,64	200	0,73	20	1,43	15	1,43	20	40	80	80	
100/140	100/140	1,40	0,73	0,87	200	0,83	20	1,63	20	1,63	20	40	80	80	
100/150	100/150	1,50	0,78	0,93	200	0,83	20	1,63	20	1,63	20	40	80	80	
100/200	100/200	2,00	1,00	1,26	200	0,83	25	1,63	25	1,63	25	80	150	150	
120/140	120/140	1,68	0,92	1,04	200	1,63	15	1,63	25	1,63	25	80	150	80	
120/160	120/160	1,92	1,06	1,19	200	1,63	15	1,63	25	2,10	25	80	150	150	
120/170	120/170	2,04	1,12	1,26	200	1,63	20	2,10	25	2,10	25	80	150	150	
120/180	120/180	2,16	1,10	1,36	200	1,63	20	2,10	25	2,10	25	80	150	150	
120/200	120/200	2,40	1,22	1,51	200	1,63	20	2,10	25	2,10	25	80	150	150	
120/220	120/220	2,64	1,35	1,66	200	1,63	20	2,10	25			80	150		
120/240	120/240	2,88	1,47	1,81	200	1,63	25					150			
120/250	120/250	3,00	1,53	1,89	200	1,63	25					150			
140/160	140/160	2,24	1,23	1,41	200	2,32	15	2,32	25	2,32	25	80	150	150	
140/200	140/200	2,80	1,46	1,76	200	2,32	20	2,93	25	2,93	25	150	150	150	
150/200	150/200	3,00	1,56	1,92	275	2,32	20	2,93	25			150	150		
160/200	160/200	3,20	1,70	2,02	275	2,32	25					150			

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 06/03/2017 in Luynes



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

