

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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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

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, mechanical mechanism, opening angle 140°
- Upstand Height mini 300 mm or covering upstand Height mini 300 mm
 - STD : Without upstand
 - MAX : With upstand

Product Range : Dim. Com. mini : 1,0x1,0m, Dim. Com. max : 1,5x1,5m or 1,2x2,4m

Possible options : (§3*)

- Contactors open/close
- Fall protection system : Griddle without impact on aerualic coefficient.

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%)

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*)

		Reference EN 12 101-2	
Aerodynamic free are Aa	Please seen below table	§ 6. annex B	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.
Automatic opening temperature	≥ 68°C	§ 4.1	
Opening Type	Type B	§ 4.3	
Reliability	Re300 Re10 000 for ventilation, half opening	§ 7.1, annex C	
Opening under load	SL 50 - SL 250 - SL 500 (refer to table below)	§ 7.2, annex D	
Low ambient temperature	T(00)	§ 7.3, annex E	
Stability under wind load	WL1500 ou WL 3000 for S (Top opening of the upstand) ≤ 2 m ²	§ 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	

Commercial dimensions			STD			MAX			PCA 10/16								CAPOT ALU STANDARD												
									Snow Loads								Snow Loads												
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL 250	SL 500									course de câble (m)	SL 250	SL 500											course de câble (m)
cm	cm	m ²	m ²	m ²	mm																								
100/100	90/90	1,00	0,50	0,74	200	SL 250	SL 500									1,7	SL 250	SL 500											1,7
110/110	100/100	1,21	0,61	0,90	200	SL 250	SL 500									1,9	SL 250	SL 500											1,9
120/120	110/110	1,44	0,72	1,07	200	SL 250	SL 500									2,1	SL 250	SL 500											2,1
130/130	120/120	1,69	0,85	1,27	275	SL 250										2,3	SL 250												2,3
140/140	130/130	1,96	0,98	1,47	275	SL 250										2,5	SL 250												2,5
150/150	140/140	2,25	1,13	1,69	275	SL 250										2,7													2,7
100/140	90/130	1,40	0,70	1,05	275	SL 250	SL 500									1,7	SL 250	SL 500											1,7
100/150	90/140	1,50	0,75	1,13	275	SL 250	SL 500									1,7	SL 250	SL 500											1,7
100/200	90/190	2,00	1,00	1,50	275	SL 250										1,7	SL 250												1,7
120/140	110/130	1,68	0,84	1,26	275	SL 250										2,1	SL 250												2,1
120/160	110/150	1,92	0,96	1,44	275	SL 250										2,1	SL 250												2,1
120/170	110/160	2,04	0,84	1,53	275	SL 250										2,1	SL 250												2,1
120/180	110/170	2,16	0,89	1,62	275	SL 250										2,1	SL 250												2,1
120/200	110/190	2,40	0,96	1,80	275	SL 250										2,1	SL 250												2,1
120/220	110/210	2,64	1,06	1,98	275	SL 250										2,1	SL 250												2,1
120/240	110/230	2,88	1,15	2,16	275	SL 250										2,1													2,1
140/160	130/150	2,24	1,12	1,68	275	SL 250										2,5	SL 250												2,5

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 11/05/2017 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 TREUIL
BLUECOIF TREUIL**

Products alternatives concerned :

- BLUESTEEL TREUIL STD/MAX (CURVED)
- BLUECOIF TREUIL 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 TREUIL

N°:17,02

Name, registered trade name or trade mark and contact address 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, mechanical mechanism, opening angle 140°
- Upstand Height mini 300 mm or covering upstand Height mini 300 mm
 - STD : Without upstand
 - MAX : With upstand

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%)

Product Range : Dim. Com. mini : 1,0x1,0m, Dim. Com. max : 1,5x1,5m or 1,2x2,4m

Possible options : (§3*)

- Contactors open/close
- Fall protection system : Griddle without impact on aerodynamic coefficient.

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*)

Aerodynamic free area Aa	Please see below table	Référence EN 12 101-2 § 6. annex B	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.
Automatic opening temperature	≥ 68°C	§ 4.1	
Opening Type	Type B	§ 4.3	
Reliability	Re300 Re10 000 for ventilation, half opening	§ 7.1, annex C	
Opening under load	SL 50 - SL 250 - SL 500 (refer to table below)	§ 7.2, annex D	
Low ambient temperature	T(00)	§ 7.3, annex E	
Stability under wind load	WL1500 ou WL 3000 for S (Top opening of the upstand) ≤ 2 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 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	

Commercial dimensions			STD		MAX		DOME/PYRAMIDE DOUBLE PAROIS																				
							Snow Loads														course de câble [m]						
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL250	SL 500																				
cm	cm	m²	m²	m²	mm																						
100/100	90/90	1,00	0,50	0,74	200	SL250	SL 500																	1,7			
110/110	100/100	1,21	0,61	0,90	200	SL250	SL 500																		1,9		
120/120	110/110	1,44	0,72	1,07	200	SL250	SL 500																			2,1	
130/130	120/120	1,69	0,85	1,27	275	SL250																				2,3	
140/140	130/130	1,96	0,98	1,47	275	SL250																				2,5	
100/140	90/130	1,40	0,70	1,05	275	SL250	SL 500																			1,7	
100/150	90/140	1,50	0,75	1,13	275	SL250	SL 500																				1,7
100/200	90/190	2,00	1,00	1,50	275	SL250																					1,7
120/140	110/130	1,68	0,84	1,26	275	SL250																					2,1
120/160	110/150	1,92	0,96	1,44	275	SL250																					2,1
120/170	110/160	2,04	0,84	1,53	275	SL250																					2,1
120/180	110/170	2,16	0,89	1,62	275	SL250																					2,1

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 11/05/2017 in Luynes

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

www.blueteck.fr

Product range designation (§2*)

BLUESTEEL TREUIL

Products alternatives concerned :

BLUESTEEL TREUIL STD/MAX (STRAIGHT)
BLUECOIF TREUIL 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 TREUIL

N°:17,18

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 Sarraube // SODILIGHT : S002-Route de Saulon - 21220 Gevrey-Chambertin

Product description (§3*)

- Single opening flap, mechanical mechanism, opening angle 140°
- Upstand Height mini 300 mm or covering upstand 150 mm (Height of the combinaison formed by existing upstand and covering upstand must be 300mm mini)
 - STD : Without windshields
 - MAX : With windshields

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

Possible options : (§3*)

- Contactors open/close
- Fall protection system : Griddle without impact on aeraulic coefficient.

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 A	§ 4.3	
Reliability	Re300 Re10 000 for ventilation, half opening	§ 7.1, annex C	
Opening under load	SL 50 - SL 250 - SL 500 (refer to table below)	§ 7.2, annex D	
Low ambient temperature	T(00)	§ 7.3, annex E	
Stability under wind load	WL1500 ou WL 3000 for S (Top opening of the upstand) ≤ 2 m ²	§ 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 10/16												
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	Snow Loads						course de câble [m]							
						SL50													
cm	cm	m ²	m ²	m ²	mm														
90/90	90/90	0,81	0,41	0,49	150	SL50							1,7						
100/100	100/100	1,00	0,50	0,61	150	SL50							1,9						
110/110	110/110	1,21	0,61	0,74	150	SL50							2,1						
120/120	120/120	1,44	0,72	0,89	200	SL50							2,3						
130/130	130/130	1,69	0,85	1,05	200	SL50							2,5						
140/140	140/140	1,96	0,98	1,23	200	SL50							2,7						
150/150	150/150	2,25	1,13	1,42	275	SL50							2,9						
160/160	160/160	2,56	1,00	1,61	275	SL50							3,1						
170/170	170/170	2,89	1,10	1,85	275	SL50							3,3						
100/140	100/140	1,40	0,70	0,87	200	SL50							1,9						
100/150	100/150	1,50	0,75	0,93	200	SL50							1,9						
100/200	100/200	2,00	0,76	1,26	200	SL50							1,9						
120/140	120/140	1,68	0,84	1,04	200	SL50							2,3						
120/160	120/160	1,92	0,75	1,19	200	SL50							2,3						
120/170	120/170	2,04	0,80	1,26	200	SL50							2,3						
120/180	120/180	2,16	0,82	1,36	200	SL50							2,3						
120/200	120/200	2,40	0,91	1,51	200	SL50							2,3						
140/160	140/160	2,24	0,87	1,41	200	SL50							2,7						
140/200	140/200	2,80	1,06	1,76	200	SL50							2,7						
150/200	150/200	3,00	1,14	1,92	275	SL50							2,9						

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 11/05/2017 in Luynes

