Notified Body nr. 0336

PRODUCTS
RvA C 078

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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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

	Field of Application			
Energy	**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,do) 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 -

bluetek
De nature à créer le bien-être

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 MECA EXPORT

Products alternatives concerned :

BLUEBAC THERM MECA EXPORT STD/MAX (DR)
BLUEBAC THERM MECA EXPORT STD/MAX (B1)
BLUEBAC THERM MECA EXPORT 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 + infill + dimensions

DOP_EN12101-2_BLUEBAC THERM MECA EXPORT ***N°:18,09***

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°
- Straight, oblique or euro polyester upstand, Height mini 300 mm
  - STD : Without windshileds
  - 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%)

Product Range : Dim. Com. mini : 1,1x1,1m, Dim. Com. max : 1,5x1,8m or 1,8x1,8m

Possible options : (§3*)
- Contactors open/close
- Fall protection system : Griddle without impact on aeraulic 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°

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	Re 300 Re 10 000 (for ventilation half opening)	§ 7.1, annex C	
Opening under load	SL 50 - SL 250 - SL 500 (Please seen below table)	§ 7.2, annex D	
Low ambient temperature	T(00)	§ 7.3, annex E	
Stability under wind load	WL 1500 ou WL 3000 Pour S (trémie haute) ≤ 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		PCA 16/20																						
						Snow Loads																						
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL50									course de câble [m]													
cm	cm	m²	m²	m²	mm																							
110/110	100/100	1,21	0,61	0,90	200	SL50									1,9													
130/130	120/120	1,69	0,85	1,27	275	SL50									2,3													
150/150	140/140	2,25	1,13	1,69	275	SL50									2,7													
180/180	160/160	3,24	1,30		275	SL50									3,1													
100/200	100/200	2,00	0,76	1,26	200	SL50									1,9													
120/240	100/220	2,88	1,15	1,93	200	SL50									1,9													
150/180	130/160	2,70	1,35	1,84	200	SL50									2,5													
150/180	150/180	2,70	1,03	1,73	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 responsability of the manufacturer identified in point §4.

Signed for and on behalf of the manufacturer by Philippe FRITZINGER, President of BLUETEK
The 27/06/2017 in Luynes

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

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De nature à créer le bien-être

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 MECA EXPORT

Products alternatives concerned :

BLUEBAC THERM MECA EXPORT STD/MAX (DR)
BLUEBAC THERM MECA EXPORT STD/MAX (B1)
BLUEBAC THERM MECA EXPORT 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 + infill + dimensions

DOP_EN12101-2_BLUEBAC THERM MECA EXPORT ***N°:18,17***

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°
- Insulated Straight oblique or euro polyester upstand, Height mini 300 mm
  - STD : Without windshileds
  - 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%)

Product Range : Dim. Com. mini : 1,1x1,1m, 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.

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-24091656-012

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	Re 300 Re 10 000 (for ventilation half opening)	§ 7.1, annex C	
Opening under load	SL 50 - SL 250 - SL 500 (Please seen below table)	§ 7.2, annex D	
Low ambient temperature	T(00)	§ 7.3, annex E	
Stability under wind load	WL 1500 ou WL 3000 Pour S (trémie haute) ≤ 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		PCA 16/20										PCA 32 - CAPOT ALU STANDARD									
						Snow Loads										Snow Loads									
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL250	SL 500								course de câble [m]	SL250	SL 500								course de câble [m]
cm	cm	m²	m²	m²	mm																				
110/110	100/100	1,21	0,61	0,90	200	SL 250	SL 500								1,9	SL 250	SL 500								1,9
130/130	120/120	1,69	0,85	1,27	275	SL 250									2,3	SL 250									2,3
150/150	140/140	2,25	1,13	1,69	275	SL 250									2,7										2,7
100/200	100/200	2,00	0,76	1,26	200	SL 250									1,9	SL 250									1,9
120/240	100/220	2,88	1,15	1,93	200	SL 250									1,9	SL 250									1,9
150/180	130/160	2,70	1,35	1,84	200	SL 250									2,5										2,5

Values of catalogue products - *For other dimensions, please consult us*
Dim. Lum. : Light dimensions (Top opening of the upstand)
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(1)Cartridge for the thermofuse

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The 27/06/2017 in Luynes

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- Hinges perpendicular to the ridge : 25° (46%)

Product Range : Dim. Com. mini : 1,1x1,1m, Dim. Com. max : 1,5x1,5m or 1,5x1,8m

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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 16/20 PEARL INSIDE - DOME/PYRAMIDE DOUBLE PAROIS - BSL										DOME/PYRAMIDE TRIPLE PAROIS									
						Snow Loads										Snow Loads									
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)	Windshields Height	SL250	SL 500								course de câble [m]	SL250	SL 500								course de câble [m]
cm	cm	m²	m²	m²	mm																				
110/110	100/100	1,21	0,61	0,90	200	SL250	SL 500								1,9	SL250	SL 500								1,9
130/130	120/120	1,69	0,85	1,27	275	SL250									2,3	SL250									2,3
100/200	100/200	2,00	0,76	1,26	200	SL250									1,9	SL250									1,9

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)

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X : configuration available

(1)Cartridge for the thermofuse

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Signed for and on behalf of the manufacturer by Philippe FRITZINGER, President of BLUETEK
The 27/06/2017 in Luynes

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