

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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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

Products alternatives concerned :

**BLUESTEEL THERM PNEU STD/MAX (CURVED)
BLUECOIF THERM 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 THERM PNEU

N°:16,01

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 : S001-Le Haras - 57430 Sarralbe // SODILIGHT : S002-Route de Saulon - 21220 Gevrey-Chambertin

Product description (§3*)

- Single opening flap, with pneumatic cylinder, opening angle 165°
- Upstand Height mini 350 mm or covering upstand Height mini 300 mm
 - STD : Without windshiled
 - 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 aerualic coefficient.
- Pneumatic daily 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*)

Aerodynamic free are Aa	Please seen below table	Reference EN 12 101-2	
		§ 6. annex B	§ 4.1
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 (on demand - according infill and dimensions))	§ 7.1, annex C	
Opening under load	SL 250 - SL 500 - 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 or WL 3000 for S (Dim. Lum.) ≤ 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 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 16/20						PCA 32										
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 500	V. total	SL 550	SL 250	SL 500	SL 550	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	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	12	0,73	16	0,73	15	25	25	25	0,73	12	0,73	16	0,73	19	25	25	25
100/100	90/90	1,00	0,62	0,74	150	0,73	12	0,73	19	1,43	16	25	25	40	0,73	12	0,73	19	1,43	15	25	25	40
110/110	100/100	1,21	0,75	0,90	150	0,83	13	0,83	21	1,63	18	25	25	40	0,83	18	1,63	13	1,63	17	25	25	40
120/120	110/110	1,44	0,89	1,07	150	0,83	17	1,63	17	1,63	17	25	40	40	0,83	17	1,63	17	1,63	17	25	40	40
130/130	120/120	1,69	1,03	1,27	200	0,83	22	1,63	17	1,63	21	25	40	80	0,83	21	1,63	21	1,63	22	25	80	80
140/140	130/130	1,96	1,20	1,47	200	1,63	14	1,63	21	2,10	24	40	80	80	1,63	13	1,63	22	2,10	21	25	80	80
150/150	140/140	2,25	1,37	1,69	200	2,32	16	2,32	25	2,32	25	80	80	80	2,32	16	2,32	25	2,32	25	80	80	80
160/160	150/150	2,56	1,56	1,95	275	2,32	16	2,32	25	2,93	25	80	80	150	2,32	20	2,93	25			80	150	
170/170	160/160	2,89	1,73	2,20	275	2,32	21	2,93	25	2,93	25	80	150	150	2,32	21	2,93	25			80	150	
180/180	170/170	3,24	1,88	2,46	275	2,32	21					80			2,32	25					80		
190/190	180/180	3,61	2,02	2,45	275	3,60	13					80			3,60	15					80		
200/200	190/190	4,00	2,16	2,72	275	3,60	15					80			3,60	16					80		
100/130	90/120	1,30	0,81	0,96	150	0,73	16	1,43	12	1,43	16	25	40	40	0,73	16	1,43	16	1,43	15	25	40	40
100/140	90/130	1,40	0,85	1,05	200	0,73	16	1,43	16	1,43	16	25	40	40	0,73	16	1,43	16	1,43	15	25	40	40
100/150	90/140	1,50	0,92	1,13	200	0,73	16	1,43	16	1,43	16	25	40	40	0,73	20	1,43	16	1,43	15	25	40	40
100/200	90/190	2,00	1,20	1,50	200	1,43	12	1,43	20	1,43	20	25	40	40	1,43	12	1,43	19	1,43	20	25	40	40
120/140	110/130	1,68	1,02	1,26	200	0,83	22	1,63	17	1,63	17	25	40	40	0,83	22	1,63	17	1,63	21	25	40	80
120/160	110/150	1,92	1,17	1,44	200	0,83	22	1,63	22	1,63	22	25	80	80	0,83	22	1,63	22	1,63	21	25	80	80
120/170	110/160	2,04	1,24	1,53	200	0,83	22	1,63	22	1,63	22	25	80	80	1,63	13	1,63	22	1,63	21	25	80	80
120/180	110/170	2,16	1,32	1,62	200	1,63	14	1,63	22	1,63	22	40	80	80	1,63	13	1,63	22	2,10	25	25	80	80
120/200	110/190	2,40	1,44	1,80	200	1,63	14	1,63	22	2,10	24	40	80	80	1,63	17	2,10	22	2,10	25	40	80	80
120/220	110/210	2,64	1,58	1,98	200	1,63	14	2,10	22	2,10	24	40	80	80	1,63	17	2,10	22	2,10	25	40	80	80
120/240	110/230	2,88	1,73	2,16	200	1,63	16	2,10	22	2,10	24	40	80	80	1,63	17	2,10	22	2,10	25	40	80	80
120/250	110/240	3,00	1,56	2,13	200	1,63	16	2,10	22	2,10	24	40	80	80	1,63	17	2,10	22	2,10	25	40	80	80
140/160	130/150	2,24	1,37	1,68	200	1,63	18	2,10	24	2,10	24	40	80	80	1,63	17	2,10	22	2,10	21	40	80	80
140/200	130/190	2,80	1,65	2,10	275	1,63	18	2,10	24			40	80		1,63	21					80		
150/200	140/190	3,00	1,77	2,25	200	2,32	17	2,93	23	2,93	25	80	80	150	2,32	18	2,93	24			80	150	
160/200	150/190	3,20	1,86	2,43	275	2,32	19	2,93	25			80	150		2,32	20	2,93	25			80	150	

Values of catalogue products - For other dimensions, please consult us

□ : configuration not available

(1) Cartridge for the thermofuse

Dim. Lum. : Light dimensions (Top opening of the upstand)

X : configuration available

Dim. Com. : Commercial dimensions (Bottom opening of the upstand)

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 31/05/2019 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 THERM PNEU
BLUECOIF THERM PNEU**

Products alternatives concerned :

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BLUECOIF THERM 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 THERM PNEU

N°:16,02

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, with pneumatic cylinder, opening angle 165°
- Upstand Height mini 350 mm or covering upstand Height mini 300 mm
 - STD : Without windshiled
 - MAX : With windshileds

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 daily 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*)

Property	Value	Reference EN 12 101-2	
		§ 6, annex B	§ 4.1
Aerodynamic free are Aa	Please seen below table		
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 (on demand - according infill and dimensions))		§ 7.1, annex C
Opening under load	SL 250 - SL 500 - 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 or WL 3000 for S (Dim. Lum.) ≤ 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 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			CAPOT ALU STANDARD						DOME/PYRAMIDE TRIPLE PARIOS - PCA 16 PEARL INSIDE - PCA 20 PEARL INSIDE - BSL										
							Pneumatic cylinder			CO2 weight (1)			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	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	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	12	0,73	16	0,73	19	25	25	25	0,73	13	0,73	16	0,73	20	25	25	25
100/100	90/90	1,00	0,62	0,74	150	0,73	12	0,73	19	1,43	15	25	25	40	0,73	16	1,43	12	1,43	16	25	25	40
110/110	100/100	1,21	0,75	0,90	150	0,83	18	1,63	13	1,63	17	25	25	40	0,83	18	1,63	14	1,63	18	25	40	40
120/120	110/110	1,44	0,89	1,07	150	0,83	17	1,63	17	1,63	17	25	40	40	0,83	23	1,63	18	1,63	17	25	40	40
130/130	120/120	1,69	1,03	1,27	200	0,83	21	1,63	21	1,63	22	25	80	80	1,63	14	1,63	22	1,63	23	40	40	80
140/140	130/130	1,96	1,20	1,47	200	1,63	13	1,63	22	2,10	21	25	80	80	1,63	18	2,10	23	2,10	22	40	80	80
150/150	140/140	2,25	1,37	1,69	200	2,32	16	2,32	25	2,32	25	80	80	80	2,32	17	2,32	25	2,32	25	80	80	80
160/160	150/150	2,56	1,56	1,95	275	2,32	20	2,93	25			80	150		2,32	22	2,93	25			80	150	
170/170	160/160	2,89	1,73	2,20	275	2,32	21	2,93	25			80	150		2,32	22					80		
180/180	170/170	3,24	1,88	2,46	275	2,32	25					80			2,32	25					80		
190/190	180/180	3,61	2,02	2,45	275	3,60	15					80			3,60	17					80		
200/200	190/190	4,00	2,16	2,72	275	3,60	16					80			3,60	18					80		
100/130	90/120	1,30	0,81	0,96	150	0,73	16	1,43	16	1,43	15	25	40	40	0,73	21	1,43	16	1,43	16	25	40	40
100/140	90/130	1,40	0,85	1,05	200	0,73	16	1,43	16	1,43	15	25	40	40	0,73	21	1,43	16	1,43	16	25	40	40
100/150	90/140	1,50	0,92	1,13	200	0,73	20	1,43	16	1,43	15	25	40	40	0,73	21	1,43	16	1,43	23	25	40	40
100/200	90/190	2,00	1,20	1,50	200	1,43	12	1,43	19	1,43	20	25	40	40	1,43	17	1,43	20	1,43	23	40	40	40
120/140	110/130	1,68	1,02	1,26	200	0,83	22	1,63	17	1,63	21	25	40	80	0,83	23	1,63	18	1,63	22	25	40	80
120/160	110/150	1,92	1,17	1,44	200	0,83	22	1,63	22	1,63	21	25	80	80	1,63	14	2,10	22	1,63	22	40	80	80
120/170	110/160	2,04	1,24	1,53	200	1,63	13	1,63	22	1,63	21	25	80	80	1,63	14	2,10	22	2,10	25	40	80	80
120/180	110/170	2,16	1,32	1,62	200	1,63	13	1,63	22	2,10	25	25	80	80	1,63	18	2,10	23	2,10	25	40	80	80
120/200	110/190	2,40	1,44	1,80	200	1,63	17	2,10	22	2,10	25	40	80	80	1,63	18	2,10	23	2,10	25	40	80	80
120/220	110/210	2,64	1,58	1,98	200	1,63	17	2,10	22	2,10	25	40	80	80	1,63	18	2,10	23	2,10	25	40	80	80
120/240	110/230	2,88	1,73	2,16	200	1,63	17	2,10	22	2,10	25	40	80	80	1,63	20	2,10	23	2,10	25	40	80	80
120/250	110/240	3,00	1,56	2,13	200	1,63	17	2,10	22	2,10	25	40	80	80	1,63	20					40		
140/160	130/150	2,24	1,37	1,68	200	1,63	17	2,10	22	2,10	21	40	80	80	1,63	18	2,10	23			40	80	
140/200	130/190	2,80	1,65	2,10	275	1,63	21					80			1,63	22					80		
150/200	140/190	3,00	1,77	2,25	200	2,32	18	2,93	24			80	150		2,32	21	2,93	25			80	150	
160/200	150/190	3,20	1,86	2,43	275	2,32	20	2,93	25			80	150		2,32	24					80	150	

Values of catalogue products - For other dimensions, please consult us

□ : configuration not available

(1) Cartridge for the thermofuse

Dim. Lum. : Light dimensions (Top opening of the upstand)

X : configuration available

Dim. Com. : Commercial dimensions (Bottom opening of the upstand)

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 31/05/2019 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 THERM PNEU
BLUECOIF THERM PNEU**

Products alternatives concerned :

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

DOP_EN12101-2_BLUESTEEL THERM PNEU

N°:16,04

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, with pneumatic cylinder, opening angle 165°
- Upstand Height mini 350 mm or covering upstand Height 150 mm (Height of the combinaison formed by existing upstand and covering upstand must be 300 mm mini)
 - STD : Without windshiled
 - 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, parrrallel to the ridge : 3° (5%)
• Hinges at the bottom part of the slope, parrrallel 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 aerualic coefficient.
- Pneumatic daily 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*)

Property	Value	Reference EN 12 101-2	
		§ 6, annex B	§ 4.1
Aerodynamic free are Aa	Please seen below table		
Automatic opening temperature	≥ 68°C		
Opening Type	Type B		
Reliability	Re 300 Re 1 000 (according infill and dimensions) Re 10 000 (for ventilation half opening or ventilation complete opening (on demand - according infill and dimensions))		
Opening under load	SL 250 - SL 500 - SL 550 (Please seen below table)		
Low ambient temperature	T(-15)		
Stability under wind load	WL 1500 or WL 3000 for S (Dim. Lum.) ≤ 2,53 m²		
Resistance to heat	B 300		
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)		

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 16/20										PCA 32								
					Pneumatic cylinder					CO2 weight (1)					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	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	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	12	0,73	16	0,73	15	25	25	25	0,73	12	0,73	16	0,73	19	25	25	25
90/90	90/90	0,81	0,45	0,49	150	0,73	12	0,73	19	1,43	16	25	25	40	0,73	12	0,73	19	1,43	15	25	25	40
100/100	100/100	1,00	0,55	0,61	150	0,83	13	0,83	21	1,63	18	25	25	40	0,83	18	1,63	13	1,63	17	25	25	40
110/110	110/110	1,21	0,67	0,74	150	0,83	17	1,63	17	1,63	17	25	40	40	0,83	17	1,63	17	1,63	17	25	40	40
120/120	120/120	1,44	0,79	0,89	200	0,83	22	1,63	17	1,63	21	25	40	80	0,83	21	1,63	21	1,63	22	25	80	80
130/130	130/130	1,69	0,93	1,05	200	1,63	14	1,63	21	2,10	24	40	80	80	1,63	13	1,63	22	2,10	21	25	80	80
140/140	140/140	1,96	1,08	1,23	200	2,32	16	2,32	25	2,32	25	80	80	80	2,32	16	2,32	25	2,32	25	80	80	80
150/150	150/150	2,25	1,24	1,42	275	2,32	16	2,32	25	2,93	25	80	80	150	2,32	20	2,93	25			80	150	
160/160	160/160	2,56	1,38	1,61	275	2,32	21	2,93	25	2,93	25	80	150	150	2,32	21	2,93	25			80	150	
170/170	170/170	2,89	1,56	1,85	275	2,32	21					80			2,32	25					80		
180/180	180/180	3,24	1,72	2,01	275	3,60	13					80			3,60	15					80		
80/100	80/100	0,80	0,44	0,49	150	0,73	12	0,73	20	0,73	20	25	25	25	0,73	12	0,73	19	0,73	19	25	25	25
80/120	80/120	0,96	0,53	0,59	150	0,73	12	0,73	20	1,43	16	25	25	40	0,73	16	1,43	12	1,43	16	25	25	40
80/130	80/130	1,04	0,54	0,64	200	0,73	16	1,43	11	1,43	16	25	25	40	0,73	16	1,43	12	1,43	16	25	25	40
100/130	100/130	1,30	0,68	0,81	200	0,83	18	1,63	18	1,63	18	25	40	40	0,83	18	1,63	18	1,63	17	25	40	40
100/140	100/140	1,40	0,73	0,87	200	0,83	18	1,63	18	1,63	18	25	40	40	0,83	18	1,63	18	1,63	17	25	40	40
100/150	100/150	1,50	0,78	0,93	200	0,83	18	1,63	18	1,63	18	25	40	40	0,83	21	1,63	18	1,63	17	25	40	40
100/200	100/200	2,00	1,00	1,26	200	0,83	22	1,63	22	1,63	22	40	80	80	1,63	13	1,63	22	1,63	22	25	80	80
120/140	120/140	1,68	0,92	1,04	200	1,63	13	1,63	22	1,63	21	25	80	80	1,63	13	1,63	21	1,63	22	25	80	80
120/160	120/160	1,92	1,06	1,19	200	1,63	13	1,63	22	2,10	24	25	80	80	1,63	17	2,10	22	2,10	25	40	80	80
120/170	120/170	2,04	1,12	1,26	200	1,63	18	2,10	23	2,10	24	40	80	80	1,63	17	2,10	22	2,10	25	40	80	80
120/180	120/180	2,16	1,10	1,36	200	1,63	18	2,10	23	2,10	24	40	80	80	1,63	17	2,10	22	2,10	25	40	80	80
120/200	120/200	2,40	1,22	1,51	200	1,63	18	2,10	23	2,10	24	40	80	80	1,63	17	2,10	22	2,10	25	40	80	80
120/220	120/220	2,64	1,35	1,66	200	1,63	18	2,10	23			40	80		1,63	20					40		
120/240	120/240	2,88	1,47	1,81	200	1,63	19					40			1,63	20					40		
120/250	120/250	3,00	1,53	1,89	200	1,63	19					40			1,63	20					40		
140/160	140/160	2,24	1,23	1,41	200	2,32	16	2,32	25	2,32	25	80	80	80	2,32	16	2,32	25			80	80	
140/200	140/200	2,80	1,46	1,76	200	2,32	17	2,93	23	2,93	25	80	80	150	2,32	18	2,93	24			80	150	
150/200	150/200	3,00	1,56	1,92	275	2,32	19	2,93	25			80	150		2,32	20					80		
160/200	160/200	3,20	1,70	2,02	275	2,32	22					80			2,32	23					80		

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 31/05/2019 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 THERM PNEU
BLUECOIF THERM PNEU**

Products alternatives concerned :

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

DOP_EN12101-2_BLUESTEEL THERM PNEU

N°:16,05

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, with pneumatic cylinder, opening angle 165°
- Upstand Height mini 350 mm or covering upstand Height 150 mm (Height of the combinaison formed by existing upstand and covering upstand must be 300 mm mini)
 - STD : Without windshiled
 - 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, parrrallel to the ridge : 3° (5%)
• Hinges at the bottom part of the slope, parrrallel 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 aerualic coefficient.
- Pneumatic daily 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*)

		Reference 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 (on demand - according infill and dimensions))	§ 7.1, annex C	
Opening under load	SL 250 - SL 500 - 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 or WL 3000 for S (Dim. Lum.) ≤ 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 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	CAPOT ALU STANDARD										DOME/PYRAMIDE TRIPLE PAROIS - PCA 16 PEARL INSIDE - PCA 20 PEARL INSIDE - BSL								
					Pneumatic cylinder					CO2 weight (1)					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	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	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	12	0,73	16	0,73	25	25	25	25	0,73	13	0,73	16	0,73	20	25	25	25
90/90	90/90	0,81	0,45	0,49	150	0,73	12	0,73	19	1,43	40	25	25	40	0,73	16	1,43	12	1,43	16	25	25	40
100/100	100/100	1,00	0,55	0,61	150	0,83	18	1,63	13	1,63	17	25	25	40	0,83	18	1,63	14	1,63	18	25	40	40
110/110	110/110	1,21	0,67	0,74	150	0,83	17	1,63	17	1,63	17	25	40	40	0,83	23	1,63	18	1,63	17	25	40	40
120/120	120/120	1,44	0,79	0,89	200	0,83	21	1,63	21	1,63	22	25	80	80	1,63	14	1,63	22	1,63	23	40	40	80
130/130	130/130	1,69	0,93	1,05	200	1,63	13	1,63	22	2,10	21	25	80	80	1,63	18	2,10	23	2,10	22	40	80	80
140/140	140/140	1,96	1,08	1,23	200	2,32	16	2,32	25	2,32	25	80	80	80	2,32	17	2,32	25	2,32	25	80	80	80
150/150	150/150	2,25	1,24	1,42	275	2,32	20	2,93	25			80	150		2,32	22	2,93	25			80	150	
160/160	160/160	2,56	1,38	1,61	275	2,32	21	2,93	25			80	150		2,32	22					80		
170/170	170/170	2,89	1,56	1,85	275	2,32	25					80			2,32	25					80		
180/180	180/180	3,24	1,72	2,01	275	3,60	15					80			3,60	17					80		
80/100	80/100	0,80	0,44	0,49	150	0,73	12	0,73	19	0,73	25	25	25	25	0,73	13	0,73	19	0,73	20	25	25	25
80/120	80/120	0,96	0,53	0,59	150	0,73	16	1,43	12	1,43	40	25	25	40	0,73	16	1,43	12	1,43	16	25	25	40
80/130	80/130	1,04	0,54	0,64	200	0,73	16	1,43	12	1,43	40	25	25	40	0,73	16	1,43	12	1,43	16	25	25	40
100/130	100/130	1,30	0,68	0,81	200	0,83	18	1,63	18	1,63	17	25	40	40	0,83	23	1,63	17	1,63	18	25	40	40
100/140	100/140	1,40	0,73	0,87	200	0,83	18	1,63	18	1,63	17	25	40	40	0,83	23	1,63	17	1,63	18	25	40	40
100/150	100/150	1,50	0,78	0,93	200	0,83	21	1,63	18	1,63	17	25	40	40	0,83	23	1,63	17	1,63	22	25	40	80
100/200	100/200	2,00	1,00	1,26	200	1,63	13	1,63	22	1,63	22	25	80	80	1,63	17	1,63	22	2,10	23	40	80	80
120/140	120/140	1,68	0,92	1,04	200	1,63	13	1,63	21	1,63	22	25	80	80	1,63	18	1,63	22	2,10	25	40	40	80
120/160	120/160	1,92	1,06	1,19	200	1,63	17	2,10	22	2,10	25	40	80	80	1,63	18	2,10	23	2,10	25	40	80	80
120/170	120/170	2,04	1,12	1,26	200	1,63	17	2,10	22	2,10	25	40	80	80	1,63	18	2,10	23	2,10	25	40	80	80
120/180	120/180	2,16	1,10	1,36	200	1,63	17	2,10	22	2,10	25	40	80	80	1,63	18	2,10	23	2,10	25	40	80	80
120/200	120/200	2,40	1,22	1,51	200	1,63	17	2,10	22	2,10	25	40	80	80	1,63	23					80		
120/220	120/220	2,64	1,35	1,66	200	1,63	20					40			1,63	23					80		
120/240	120/240	2,88	1,47	1,81	200	1,63	20					40			1,63	23					80		
120/250	120/250	3,00	1,53	1,89	200	1,63	20					40			1,63	23					80		
140/160	140/160	2,24	1,23	1,41	200	2,32	16	2,32	25			80	80		2,32	21	2,93	25			80	150	
140/200	140/200	2,80	1,46	1,76	200	2,32	18	2,93	24			80	150		2,32	21	2,93	25			80	150	
150/200	150/200	3,00	1,56	1,92	275	2,32	20					80			2,32	24					80		
160/200	160/200	3,20	1,70	2,02	275	2,32	23					80			2,32	25					80		

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 31/05/2019 in Luynes