

Certificate of constancy of performance

0336 – CPR – 24091656 - 007

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) DV – BLUECOIF (THERM) DV

Energ(y)(ies) :
PNEU / 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 24th April 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the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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, 29th June 2017



C.C.M. van Houten, Operational Manager

Certificate of constancy of performance
0336 – CPR – 24091656 - 007

Annex 1
Natural smoke and heat exhaust ventilator

Commercial name :
BLUESTEEL (THERM) DV – BLUECOIF (THERM) DV

Energ(y)(ies) :
PNEU / ELEC

Field of Application		
Energy	PNEUMATIC	ELECTRIC
Identification of product(s) certified (reference)	Bluesteel (Therm) DV PNEU Bluecoif (Therm) DV PNEU	Bluesteel (Therm) DV ELEC Bluecoif (Therm) DV ELEC
La min (mm)	1200	1200
La max (mm)	2200	2000
Lo min (mm)	1200	1200
Lo max (mm)	3000	3000
Opening angle (°)	90°	90°
Opening type	Type B	Type B
Declared Values		
Filling (reaction to fire)	PCA 10 to 20mm (B-s1,d0) PCA 16 to 20mm Pearl Inside (B-s1,d0) Capot Alu Isolé (A1)	PCA 32mm (B-s2,d0) BSL (B-s2,do)
Aerodynamic free area	See aerodynamics report: 320/2005, 321/2005 1368-CPD-T-187/2009-B, 1369-CPD-T-159/2010-B	See aerodynamics report: 320/2005, 321/2005 1368-CPD-T-187/2009-B, 1369-CPD-T-159/2010-B
Reliability	Re 1000	Re 1000
Dual function for ventilation	Re 10 000 partial opening (stroke cylinder aeration of 300 or 500mm, electrical or pneumatical) (all infill) Re 10 000 total opening (filling PCA 10 to 20mm) In the case of retractable windbreaks (range XL, only partial opening)	Re 10 000 partial and total opening (all infill) In the case of retractable windbreaks (range XL, only partial opening)
Opening under load	SL 250 SL 500 SL 550 SL 750	SL 125 SL 250 SL 550
Low ambient temperature	T(-15)	T(-15)
Wind load	WL 1500 Resistance to wind-induced vibration satisfactory with deflectors made of galvanized sheet	WL 1500
Resistance to heat	B300	

- end of certificate -

Certificate 24091656-007
29th June 2017
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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*)

**BLUESTEEL THERM DV PNEU
BLUECOIF THERM DV PNEU**

Products alternatives concerned :

- BLUESTEEL THERM DV PNEU M/L (CURVED)
- BLUECOIF THERM DV PNEU M/L (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 DV PNEU

N°-2/04

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*)

- Double opening flap, pneumatic mechanism, opening angle 90°.
- Steel upstand Height mini 350 mm or covering upstand Height 300 mm
 - S : Without windshield
 - M : Fix windshields Height 150mm
 - L : Fix windshields Height 200 mm + internal spoilers
 - XL : Eventails + internal spoilers

Product Range : Dim. Com. mini : 1,3x2,1m; Dim. Com. max : 2,3x2,3m or 2,3x3,1m

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)

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%)

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

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-24091656-007

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	Re1 000 Re10 000 for daily ventilation, half opening Re10 000 for daily ventilation, complete opening (on demand - according infill-except XL model)	§ 7.1, annex C	
Opening under load	SL250, SL500 ou SL550 (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 to 20mm Pearl Inside (B-s2,d0) - BSL (B-s2,d0) - Standard aluminium cover (A1)	§ 7.5.2.1	

Commercial dimensions			M			L			PCA 16/20						PCA 32 - PCA 16/20 PEARL INSIDE - BSL - CAPOT ALU STANDARD								
									Pneumatic cylinder			CO2 weight (1)			Pneumatic cylinder			CO2 weight (1)					
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)		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	m ²	m ²	m ²		l	P bar	l	P bar	l	P bar	g	g	g	l	P bar	l	P bar	l	P bar	g	g	g
170/170	160/160	2,89	1,91	1,97		0,92	8,00	0,92	13	0,92	21	25	25	40	0,92	9,00	0,92	14			25	25	
180/180	170/170	3,24	2,14	2,20		0,92	11	0,92	15	1,44	18	25	25	80	0,92	12	0,92	17			25	40	
190/190	180/180	3,61	2,38	2,49		0,92	11	0,92	18	1,44	20	25	40	80	0,92	12	0,92	19			25	40	
200/200	190/190	4,00	2,68	2,76		0,90	14	0,90	22	1,44	19	25	40	80	0,90	16	0,90	24			25	40	
210/210	200/200	4,41	2,95	3,04		0,90	15	0,90	25	1,40	17	25	80	80	0,90	17	0,90	26			40	80	
220/220	210/210	4,84	3,19	3,34		0,90	20	1,40	21	2,22	17	40	80	80	0,90	23	1,40	23			40	80	
140/250	130/240	3,50	2,35	2,45		0,68	12	0,68	20	0,68	22	25	25	40	0,68	14	0,68	22			25	40	
140/300	130/290	4,20	2,81	2,98		0,68	14	0,68	24	1,04	17	25	40	40	0,68	16	1,04	17			25	40	
150/250	140/240	3,75	2,51	2,63		0,84	11	0,84	15	0,84	20	25	25	40	0,84	13	0,84	17			25	25	
150/300	140/290	4,50	3,02	3,20		0,84	13	0,84	22	1,30	15	25	40	40	0,84	15	1,30	15			25	40	
160/250	150/240	4,00	2,68	2,80		0,84	13	0,84	21	1,30	17	25	40	40	0,84	14	1,30	15			25	40	
160/300	150/290	4,80	3,22	3,41		0,84	15	1,30	16	1,30	17	25	40	40	0,84	17	1,30	17			25	40	
180/250	170/240	4,50	2,97	3,15		0,92	13	0,92	21	1,44	18	25	40	80	0,92	15	0,92	23			25	40	
180/280	170/270	5,04	3,38	3,58		0,92	15	0,92	25	1,44	18	25	40	80	0,92	17	1,44	18			40	80	
180/300	170/290	5,40	3,62	3,83		0,92	15	0,92	25	1,44	18	25	40	80	0,92	17	1,44	18			40	80	
200/250	190/240	5,00	3,35	3,55		0,90	16	0,90	18	1,44	19	25	80	80	0,90	19	1,40	19			40	80	
200/300	190/290	6,00	4,08	4,32		0,90	19	1,40	21	2,22	15	40	80	80	0,90	22	1,40	23			40	80	
230/300	220/290	6,90	4,55	4,90		0,90	25	1,40	26	2,22	19	40	80	80	1,44	19	2,22	19			80	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 29/04/2019 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 DV PNEU
BLUECOIF THERM DV PNEU**

Products alternatives concerned :

**BLUESTEEL THERM DV PNEU XL (CURVED)
BLUECOIF THERM DV PNEU XL (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 DV PNEU

N°-2,06

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*)

- Double opening flap, pneumatic mechanism, opening angle 90°.
- Steel upstand Height mini 350 mm or covering upstand Height 300 mm
 - S : Without windshield
 - M : Fix windshields Height 150mm
 - L : Fix windshields Height 200 mm + internal spoilers
 - XL : Eventails + internal spoilers

Product Range : Dim. Com. mini : 1,3x2,1m; Dim. Com. max : 2,3x2,3m or 2,3x3,1m

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)

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%)

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-24091656-007

Declared performances (§9*)

		Reference EN 12 101-2	
Aerodynamic free area Aa	Please see 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	Re1 000 Re10 000 for daily ventilation, half opening Re10 000 for daily ventilation, complete opening (on demand - according infill-except XL model)	§ 7.1, annex C	
Opening under load	SL250, SL500 ou SL550 (Please see 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 to 20mm Pearl Inside (B-s2,d0) - BSL (B-s2,d0) - Standard aluminium cover (A1)	§ 7.5.2.1	

Commercial dimensions				XL	PCA 16/20									PCA 32 - PCA 16/20 PEARL INSIDE - BSL - CAPOT ALU STANDARD									
					Pneumatic cylinder						CO2 weight (1)			Pneumatic cylinder						CO2 weight (1)			
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)		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	m ²	m ²		l	P bar	l	P bar	l	P bar	g	g	g	l	P bar	l	P bar	l	P bar	g	g	g	
170/170	160/160	2,89	2,08		0,92	8,00	0,92	13	0,92	21	25	25	40	0,92	9,00	0,92	14			25	25		
180/180	170/170	3,24	2,37		0,92	11	0,92	15	1,44	18	25	25	80	0,92	12	0,92	17			25	40		
190/190	180/180	3,61	2,67		0,92	11	0,92	18	1,44	20	25	40	80	0,92	12	0,92	19			25	40		
200/200	190/190	4,00	3,00		0,90	14	0,90	22	1,44	19	25	40	80	0,90	16	0,90	24			25	40		
210/210	200/200	4,41	3,26		0,90	15	0,90	25	1,40	17	25	80	80	0,90	17	0,90	26			40	80		
220/220	210/210	4,84	3,53		0,90	20	1,40	21	2,22	17	40	80	80	0,90	23	1,40	23			40	80		
140/250	130/240	3,50	2,49		0,68	12	0,68	20	0,68	22	25	25	40	0,68	14	0,68	22			25	40		
140/300	130/290	4,20	3,02		0,68	14	0,68	24	1,04	17	25	40	40	0,68	16	1,04	17			25	40		
150/250	140/240	3,75	2,70		0,84	11	0,84	15	0,84	20	25	25	40	0,84	13	0,84	17			25	25		
150/300	140/290	4,50	3,29		0,84	13	0,84	22	1,30	15	25	40	40	0,84	15	1,30	15			25	40		
160/250	150/240	4,00	2,92		0,84	13	0,84	21	1,30	17	25	40	40	0,84	14	1,30	15			25	40		
160/300	150/290	4,80	3,55		0,84	15	1,30	16	1,30	17	25	40	40	0,84	17	1,30	17			25	40		
180/250	170/240	4,50	3,38		0,92	13	0,92	21	1,44	18	25	40	80	0,92	15	0,92	23			25	40		
180/280	170/270	5,04	3,83		0,92	15	0,92	25	1,44	18	25	40	80	0,92	17	1,44	18			40	80		
180/300	170/290	5,40	4,10		0,92	15	0,92	25	1,44	18	25	40	80	0,92	17	1,44	18			40	80		
200/250	190/240	5,00	3,80		0,90	16	0,90	18	1,44	19	25	80	80	0,90	19	1,40	19			40	80		
200/300	190/290	6,00	4,62		0,90	19	1,40	21	2,22	15	40	80	80	0,90	22	1,40	23			40	80		
230/300	220/290	6,90	5,18		0,90	25	1,40	26	2,22	19	40	80	80	1,44	19	2,22	19			80	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 29/04/2019 in Luynes

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



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 DV PNEU
BLUECOIF THERM DV PNEU**

Products alternatives concerned :

- BLUESTEEL THERM DV PNEU S (STRAIGHT)
- BLUECOIF THERM DV PNEU S (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 DV PNEU

N°-2,21

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*)

- Double opening flap, pneumatic mechanism, opening angle 90°.
- Steel upstand Height mini 350 mm or covering upstand Height 150 mm (Height of the combinaison formed by the existing upstand and the covering upstand must be 300 mm mini)
- S : Without windshield
- M : Fix windshields Height 150mm
- L : Fix windshields Height 200 mm + internal spoilers
- XL : Eventails + internal spoilers

Product Range : Dim. Com. mini : 1,2x2,0m; Dim. Com. max : 2,2x2,2m or 2,2x3,0m

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)

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%)

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-24091656-007

Declared performances (§9*)

Property	Value	Reference EN 12 101-2
Aerodynamic free area Aa	Please see below table	§ 6, annex B
Automatic opening temperature	≥ 68°C	§ 4.1
Opening Type	Type B	§ 4.3
Reliability	Re1 000 Re10 000 for daily ventilation, half opening Re10 000 for daily ventilation, complete opening (on demand - according infill-except XL model)	§ 7.1, annex C
Opening under load	SL250 ou SL500 (Please see below table)	§ 7.2, annex D
Low ambient temperature	T(-15)	§ 7.3, annex E
Stability under wind load	WL 2000	§ 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)	§ 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				PCA 16/20										PCA 32 - PCA 16/20 PEARL INSIDE - BSL - CAPOT ALU STANDARD											
			S	Pneumatic cylinder					CO2 weight (1)					Pneumatic cylinder					CO2 weight (1)						
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	V. total	SL 750					SL 750					V. total	SL 750					SL 750				
cm	cm	m ²	m ²	l	P bar					g					l	P bar					g				
160/160	160/160	2,56	1,36	1,44	17					80					1,44	18					80				
170/170	170/170	2,89	1,50	1,44	17					80					1,44	18					80				
180/180	180/180	3,24	1,62	1,44	18					80					1,44	18					80				
190/190	190/190	3,61	1,84	2,22	15					80					2,22	16					80				
200/200	200/200	4,00	2,04	2,22	16					80					2,22	17					80				
210/210	210/210	4,41	2,25	2,22	19					80					2,22	20					80				
220/220	220/220	4,84	2,47	2,22	19					80					2,22	21					150				
120/200	120/200	2,40	1,37	1,04	15					40					1,04	16					40				
120/220	120/220	2,64	1,50	1,04	15					40					1,04	16					40				
120/240	120/240	2,88	1,64	1,04	15					40					1,04	16					40				
120/250	120/250	3,00	1,71	1,04	17					40					1,04	18					40				
120/300	120/300	3,60	2,05	1,04	19					40					1,66	13					40				
140/200	140/200	2,80	1,54	1,30	17					40					1,30	18					80				
140/250	140/250	3,50	1,93	1,30	17					40					1,30	18					80				
140/300	140/300	4,20	2,31	2,06	13					80					2,06	13					80				
150/200	150/200	3,00	1,62	1,30	18					80					1,30	19					80				
150/250	150/250	3,75	2,03	2,06	14					80					2,06	15					80				
150/300	150/300	4,50	2,43	2,06	14					80					2,06	15					80				
160/200	160/200	3,20	1,70	1,44	17					80					1,44	18					80				
160/250	160/250	4,00	2,12	1,44	17					80					1,44	18					80				
160/300	160/300	4,80	2,54	2,28	13					80					2,28	14					80				
180/250	180/250	4,50	2,25	2,28	14					80					2,28	15					80				
180/280	180/280	5,04	2,52	2,28	15					80					2,28	16					80				
180/300	180/300	5,40	2,70	2,28	16					80					2,28	17					80				
200/250	200/250	5,00	2,55	2,22	19					80					2,22	21					150				
200/300	200/300	6,00	3,06	2,22	21					150					2,22	22					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 29/04/2019 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 DV PNEU
BLUECOIF THERM DV PNEU**

Products alternatives concerned :

**BLUESTEEL THERM DV PNEU M/L (CURVED)
BLUECOIF THERM DV PNEU M/L (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 DV PNEU

N°-2,24

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*)

- Double opening flap, pneumatic mechanism, opening angle 90°.
- Steel upstand Height mini 350 mm or covering upstand Height 300 mm
 - S : Without windshield
 - M : Fix windshields Height 150mm
 - L : Fix windshields Height 200 mm + internal spoilers
 - XL : Eventails + internal spoilers

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 : 1,3x2,1m; Dim. Com. max : 2,3x2,3m or 2,3x3,1m

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-24091656-007

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	Re1 000 Re10 000 for daily ventilation, half opening Re10 000 for daily ventilation, complete opening (on demand - according infill-except XL model)	§ 7.1, annex C	
Opening under load	SL250, SL500 ou SL550 (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 to 20mm Pearl Inside (B-s2,d0) - BSL (B-s2,d0) - Standard aluminium cover (A1)	§ 7.5.2.1	

Commercial dimensions			M		L		PCA 16/20						PCA 32 - PCA 16/20 PEARL INSIDE - BSL - CAPOT ALU STANDARD										
							Pneumatic cylinder			CO2 weight (1)			Pneumatic cylinder			CO2 weight (1)							
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)	Aa (SUE)		V. total	SL 750				SL 750				V. total	SL 750				SL 750			
cm	cm	m ²	m ²	m ²		l	P bar				g				l	P bar				g			
170/170	160/160	2,89	1,91	1,97		1,44	17				80				1,44	18				80			
180/180	170/170	3,24	2,14	2,20		1,44	17				80				1,44	18				80			
190/190	180/180	3,61	2,38	2,49		1,44	18				80				1,44	18				80			
200/200	190/190	4,00	2,68	2,76		2,22	15				80				2,22	16				80			
210/210	200/200	4,41	2,95	3,04		2,22	16				80				2,22	17				80			
220/220	210/210	4,84	3,19	3,34		2,22	19				80				2,22	20				80			
140/250	130/240	3,50	2,35	2,45		1,04	17				40				1,04	13				40			
140/300	130/290	4,20	2,81	2,98		1,04	14				40				1,66	14				40			
150/250	140/240	3,75	2,51	2,63		1,30	17				40				1,30	18				80			
150/300	140/290	4,50	3,02	3,20		2,06	13				80				2,06	13				80			
160/250	150/240	4,00	2,68	2,80		1,30	18				80				2,06	12				80			
160/300	150/290	4,80	3,22	3,41		2,06	14				80				2,06	15				80			
180/250	170/240	4,50	2,97	3,15		1,44	19				80				2,28	13				80			
180/280	170/270	5,04	3,38	3,58		2,28	15				80				2,28	16				80			
180/300	170/290	5,40	3,62	3,83		2,28	15				80				2,28	16				80			
200/250	190/240	5,00	3,35	3,55		2,22	16				80				2,22	17				80			
200/300	190/290	6,00	4,08	4,32		2,22	19				80				2,22	20				80			
230/300	220/290	6,90	4,55	4,90		2,22	25				150				2,22	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 29/04/2019 in Luynes

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



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 DV PNEU
BLUECOIF THERM DV PNEU**

Products alternatives concerned :

**BLUESTEEL THERM DV PNEU XL (CURVED)
BLUECOIF THERM DV PNEU XL (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 DV PNEU

N°-2,26

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*)

- Double opening flap, pneumatic mechanism, opening angle 90°.
- Steel upstand Height mini 350 mm or covering upstand Height 300 mm
 - S : Without windshield
 - M : Fix windshields Height 150mm
 - L : Fix windshields Height 200 mm + internal spoilers
 - XL : Eventails + internal spoilers

Product Range : Dim. Com. mini : 1,3x2,1m; Dim. Com. max : 2,3x2,3m or 2,3x3,1m

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)

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%)

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-24091656-007

Declared performances (§9*)

		Reference EN 12 101-2	
Aerodynamic free area Aa	Please see 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	Re1 000 Re10 000 for daily ventilation, half opening Re10 000 for daily ventilation, complete opening (on demand - according infill-except XL model)	§ 7.1, annex C	
Opening under load	SL250, SL500 ou SL550 (Please see 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 to 20mm Pearl Inside (B-s2,d0) - BSL (B-s2,d0) - Standard aluminium cover (A1)	§ 7.5.2.1	

Commercial dimensions				XL	PCA 16/20								PCA 32 - PCA 16/20 PEARL INSIDE - BSL - CAPOT ALU STANDARD									
					Pneumatic cylinder				CO2 weight (1)				Pneumatic cylinder				CO2 weight (1)					
Dim. Com.	Dim. Lum.	Av (SGO)	Aa (SUE)		V. total	SL 750				SL 750				V. total	SL 750				SL 750			
cm	cm	m ²	m ²		l	P bar				g				l	P bar				g			
170/170	160/160	2,89	2,08		1,44	17				80				1,44	18				80			
180/180	170/170	3,24	2,37		1,44	17				80				1,44	18				80			
190/190	180/180	3,61	2,67		1,44	18				80				1,44	18				80			
200/200	190/190	4,00	3,00		2,22	15				80				2,22	16				80			
210/210	200/200	4,41	3,26		2,22	16				80				2,22	17				80			
220/220	210/210	4,84	3,53		2,22	19				80				2,22	20				80			
140/250	130/240	3,50	2,49		1,04	17				40				1,04	13				40			
140/300	130/290	4,20	3,02		1,04	14				40				1,66	14				40			
150/250	140/240	3,75	2,70		1,30	17				40				1,30	18				80			
150/300	140/290	4,50	3,29		2,06	13				80				2,06	13				80			
160/250	150/240	4,00	2,92		1,30	18				80				2,06	12				80			
160/300	150/290	4,80	3,55		2,06	14				80				2,06	15				80			
180/250	170/240	4,50	3,38		1,44	19				80				2,28	13				80			
180/280	170/270	5,04	3,83		2,28	15				80				2,28	16				80			
180/300	170/290	5,40	4,10		2,28	15				80				2,28	16				80			
200/250	190/240	5,00	3,80		2,22	16				80				2,22	17				80			
200/300	190/290	6,00	4,62		2,22	19				80				2,22	20				80			
230/300	220/290	6,90	5,18		2,22	25				150				2,22	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 29/04/2019 in Luynes

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