

# Smoke extraction

Pneumatic - Standard steel frame

## BLUESTEEL PNEU



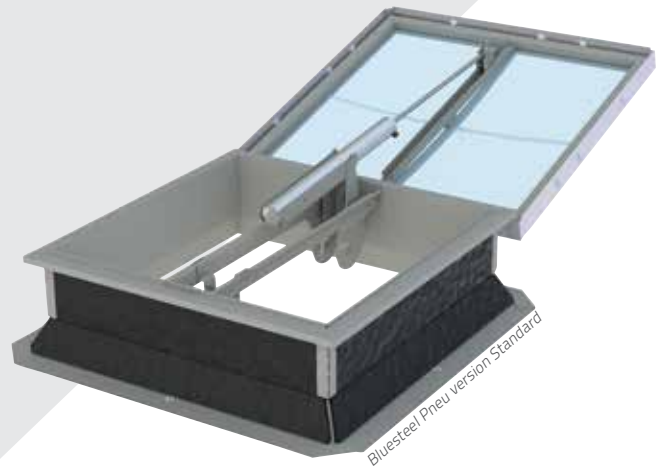
OVERHEAD  
NATURAL  
LIGHTING



SMOKE  
EXTRACTION

## BENEFITS OF BLUETEK

- Optimisation of ventilation performance thanks to the slanting frame
- The mechanism does not jut out under the frame when open
- Factory mounted device ready for connection of the copper tube



### CONTROL

CLIP-type pneumatic



## Standards and requirements



EN 1873  
EN 12101-2



Low temperature  
T (-15°)



Reliability  
Re 300 (fire)  
Re 1000 (fire according to dim. and fills)  
Re 10000 (full or partial ventilation according to dim. and fills)



Snow load  
SL250 / SL500



Type B Operation  
Opening + closing



Static wind load  
WL 1500 or  
WL 3000 (≤ 2.53 m<sup>2</sup>)



Heat resistance  
B 300

## Characteristics

- 10 mm CPC opal glazing
- Slanting frame height 300 mm insulated 15mm bituminized
- Thermal release set at 93°C

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## Technical characteristics

Commercial measurements (roof cavity) L/W in cm	Dimensions		Performances			Characteristics							
	Light measurements (top cavity) L x W in cm	Dimension in cm C x D (see section opposite)	A <sub>v</sub> (geo- metrical surface) in m <sup>2</sup>	A <sub>a</sub> (useable area) in m <sup>2</sup>		Operating pressure (bar)				Volume of jacks in litres (L)			
				Std	Max	CPC 10, 16		CAIS, DD <sup>(1)</sup>		CPC 10,16		CAIS, DD <sup>(1)</sup>	
	SL250 <sup>(2)</sup>	SL500 <sup>(2)</sup>	SL250 <sup>(2)</sup>			SL500 <sup>(2)</sup>	SL250 <sup>(2)</sup>	SL500 <sup>(2)</sup>	SL250 <sup>(2)</sup>	SL500 <sup>(2)</sup>			
90/90	80 x 80	464 x 1018	0.81	0.50	0.60	15	20	—	—	0.73	0.73	—	—
100/100	90 x 90	490 x 1115	1	0.62	0.74	15	20	—	—	0.73	0.73	—	—
110/110	100 x 100	516 x 1212	1.21	0.75	0.90	15	25	20	15	0.73	0.73	0.73	1.43
120/120	110 x 110	542 x 1308	1.44	0.89	1.07	15	25	20	15	0.73	0.73	0.73	1.43
130/130	120 x 120	567 x 1405	1.69	1.03	1.27	15	25	20	15	0.83	0.83	0.83	1.63
140/140	130 x 130	593 x 1501	1.96	1.20	1.47	20	20	25	20	0.83	1.63	0.83	1.63
150/150	140 x 140	619 x 1598	2.25	1.37	1.69	25	20	15	25	0.83	1.63	1.63	1.63
160/160	150 x 150	645 x 1695	2.56	1.56	1.95	25	25	20	25	1.63	1.63	1.63	2.10
170/170	160 x 160	671 x 1791	2.89	1.73	2.20	15	25	15	25	2.32	2.32	2.32	2.32
180/180	170 x 170	697 x 1888	3.24	1.88	2.46	15	25	20	25	2.32	2.32	2.32	2.93
190/190	180 x 180	723 x 1984	3.61	2.02	2.45	20	25	20	—	2.32	2.93	2.32	—
200/200	190 x 190	749 x 2081	4	2.16	2.72	20	—	25	—	2.32	—	2.32	—
100/140	90 x 130	490 x 1115	1.4	0.85	1.05	15	—	20	—	3.60	—	3.60	—
100/150	90 x 140	490 x 1115	1.5	0.92	1.13	20	—	20	—	3.60	—	3.60	—
100/200	90 x 190	490 x 1115	2	1.20	1.50	15	25	20	25	1.43	1.43	1.43	1.43
120/140	110 x 130	542 x 1308	1.68	1.02	1.26	25	20	25	20	0.83	1.63	0.83	1.63
120/160	110 x 150	542 x 1308	1.92	1.17	1.44	25	25	15	25	0.83	1.63	1.63	2.10
120/170	110 x 160	542 x 1308	2.04	1.24	1.53	25	25	15	25	0.83	1.63	1.63	2.10
120/180	110 x 170	542 x 1308	2.16	1.32	1.62	15	25	20	25	1.63	1.63	1.63	2.10
120/200	110 x 190	542 x 1308	2.4	1.44	1.80	15	25	20	25	1.63	1.63	1.63	2.10
120/220	110 x 200	542 x 1308	2.64	1.58	1.98	20	25	20	25	1.63	2.10	1.63	2.10
120/240	110 x 230	542 x 1308	2.88	1.73	2.16	20	25	25	25	1.63	2.10	1.63	2.10
120/250	110 x 240	542 x 1308	3	1.56	2.13	20	25	25	—	1.63	2.10	1.63	—
140/160	130 x 150	593 x 1501	2.24	1.37	1.68	20	25	20	25	1.63	2.10	1.63	2.10
140/200	130 x 190	593 x 1501	2.8	1.65	2.10	20	25	25	—	1.63	2.10	1.63	—
150/200	140 x 190	619 x 1598	3	1.77	2.25	20	25	20	25	2.32	2.93	2.32	2.93
160/200	150 x 190	645 x 1695	3.2	1.86	2.43	20	25	25	—	2.32	2.93	2.32	—

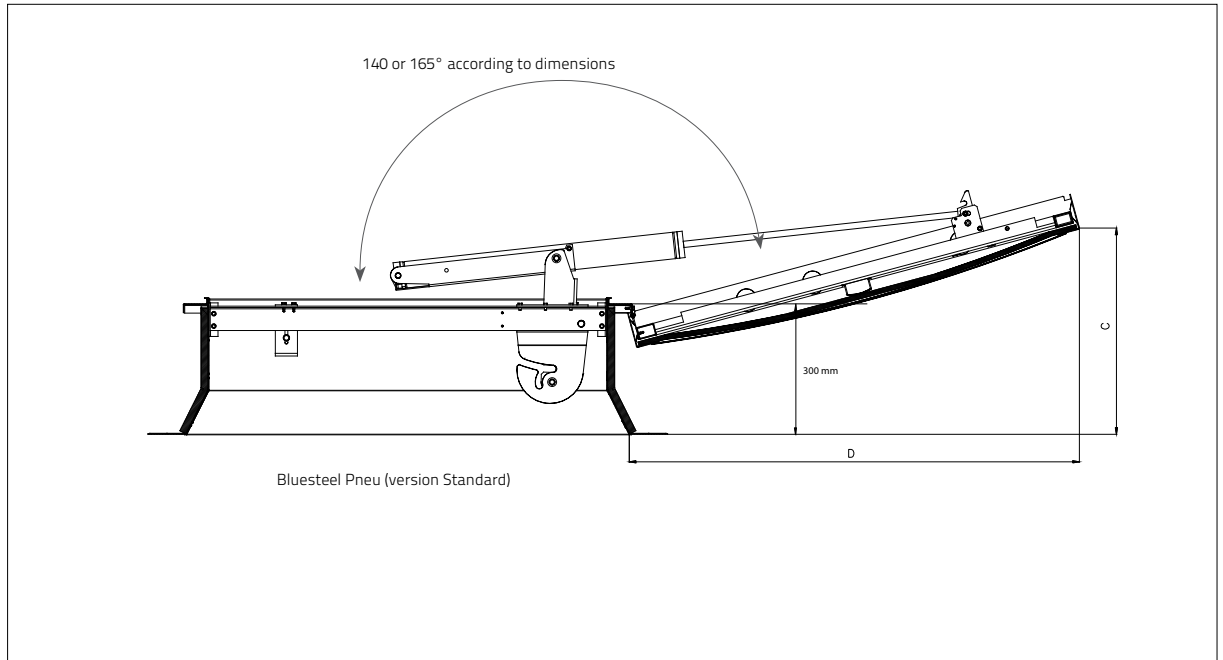
<sup>(1)</sup> CAIS: Standard insulated aluminium hood, DD: Double Dome<sup>(2)</sup> SL 250: altitude 0-400 m / SL 500: altitude 400-800 m

— not available

# Smoke Extraction | Pneumatic - Standard Steel Frame

## BLUESTEEL PNEU

### Technical sections



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## BLUESTEEL PNEU

### Glazings

#### 10 MM CPC

10 mm cellular polycarbonate  
Available in colourless, opaque, Calor Control

#### 16 MM CPC

16 mm cellular polycarbonate  
Available in opal, colourless, opaque, Calor Control

#### DOME

Solid polycarbonate or acrylic polymethyl methacrylate double-wall, opal or colourless

#### INSULATED ALUMINIUM HOOD

Standard

### Accessories and Options



#### SECURITY BARS

15X15 mm fixed steel 1200 joules resistance



#### BARS

Round fixed steel 1200 joules resistance



#### SLANTING FRAME

Height 350, 420, 500 mm



#### PVC SEALING

- Non-bituminized insulating material
- Non-bituminized insulating material with pack-rolled sheet metal option
- Non-bituminized insulating material with galvanized sheet metal option



#### POSITION SWITCH

Indicates that the NSHEV is in standby mode.  
Factory-installed



#### THERMAL RELEASE

Automatically opens the outlet in case of a rise in the temperature in the roof  
Available at 140°C and 180°C.



#### VENTILATION

Pneumatic: opens fully thanks to the smoke extraction jack (6 bar ventilation) (according to size and glazing)  
Electric: 230V electric jack for 300 mm or 500 mm partial opening (to be installed on the site)

#### LACQUERING

Lacquering of the frame, bars, security bars or underside of the aluminium hood is possible in standard RAL colours



RAL 9010



RAL 9005

### Ventilation finishes



#### WITHOUT SPOILERS (IN STANDARD VERSION)



#### SPOILERS (IN VERSION MAX)

Parts made of galvanized sheet steel improve the ventilation performance of the device

### Installation

Compliance with Unified Technical Documents (DTU) 43, maximum slope:

- 3°, i.e. 5 %, with hinges at top of slope (parallel to the roof)
- 25°, i.e. 46 %, with hinges at bottom of slope (parallel to roof)
- 25°, i.e. 46 %, with hinges perpendicular to roof (slope limited to 15° i.e. 26% if the pneumatic jack is combined with an electric jack)

### Maintenance

In accordance with NF S 61-933 the outlets must be checked and serviced at least once a year by the manufacturer or an authorised installer.



For further information visit  
our website  
[www.bluetek.fr](http://www.bluetek.fr)