

CE product line

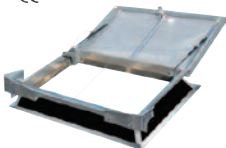
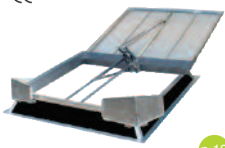
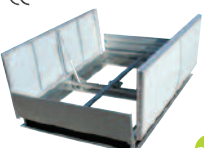
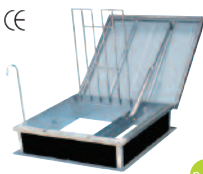
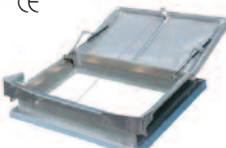
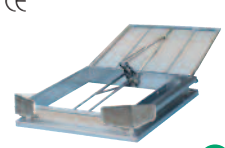
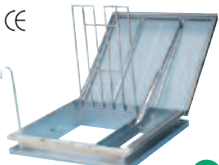
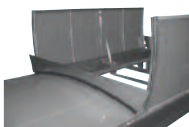
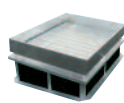
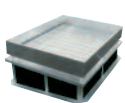
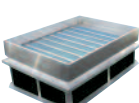
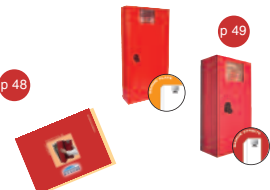


ADEXSI



HEXADOME product range



	NSHEV** Opening / Closing by winch SINGLE FLAP Hexasteel MOT  Hexasteel MoT Oblique S  of list*  of list*	NSHEV** Opening / Closing CO2 SINGLE FLAP Hexasteel MoP  Hexasteel MoP Oblique S  of list*  of list*  of list*  of list*	DOUBLE FLAP Hexasteel DOP  Hexasteel DoP P  of list*  of list*	NSHEV** and roof access Opening / Closing mechanic (MoT) or pneumatic (MoP) or electric (MoE) SINGLE FLAP Hexasteel Access  Hexasteel Access MoP Eco  of list*  of list*
Waterproofed roof	Hexacoif MOT  Hexacoif MoT S  H = 315 mm  H = 315 mm	Hexacoif MoP  Hexacoif MoP S  H = 315 mm  H = 315 mm  H = 315 mm  H = 315 mm	Hexacoif DOP  Hexacoif DoP P  H = 315 mm  H = 315 mm	Hexacoif Access  Hexacoif Access MoP Eco  H = 135 mm  H = 135 mm
Renovation	Hexaoute DOP  p 35	Hexasteel Lame TPS  p 36 Hexasteel Lame TPI  p 37 Hexasteel Lame TPP  p 38 Hexamenée d'Air Opening / Closing mechanic All types of buildings  Aluminium blades p 39	Control systems TREUIL TL 1000  p 48 HEXACLIP  p 49	
Rooflights	Blades			

* Only available in C100, 100 x 140, 100 x 150 and 100 x 200

** NSHEV: Natural Smoke and Heat exhaust ventilators

INTRODUCTION: WHAT DOES THE CE MARKING MEAN?

The key points, the snowload, the euroclasses, the types of upstand, the 11 requirements of the CE sticker, the levels of performances, the spoilers and wind-breakers, the description of the data sheets

**USEFUL
INFORMATION**

p. 4 to 13

PRODUCTS FOR WATERPROOFED ROOFS

Comfort range	p. 15
Hexasteel DoP	p. 16 / 17
Hexasteel MoP	p. 18 / 19
Hexasteel Access	p. 20 / 21
Hexasteel FEU	p. 22
Polyester Upstand	p. 23

NEW

RENOVATION / ADAPTATION

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Hexacoif DoP	p. 26 / 27
Hexacoif MoP	p. 28 / 29
Hexacoif Access	p. 30 / 31
Hexacoif FEU	p. 32
Polyester Upstand	p. 33

NEW

ROOFLIGHTS AND LOUVERED VENTS

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Hexasteel Lame TPS	p. 36
Hexasteel Lame TPI	p. 37
Hexasteel Lame TPP	p. 38
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NEW

FILLING AND OPTIONS

Filling	p. 41 / 42
Upstand, griddle, daily ventilation...	p. 43 / 47

CONTROL SYSTEMS

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Hexaclip and Hexaclip Air	p. 49

CHECK LIST

Check lists for your orders	p. 50 / 51
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REGULATION

Regulation	p. 53
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NOTES

THE KEY POINTS OF THE CE MARKING

The norm



NFS 61.937



EN 12101-2

(Smoke vents and opening segments)

New designation of the vents



Hexanorm MVP



DAS

SV Smoke vents



NSHEV

Natural Smoke
and Heat exhaust
ventilators



Hexasteel DoP P

THE 11 CE REQUIREMENTS ON THE STICKER

The performances of the NSHEV are only guaranteed by the informations mentionned on the CE sticker

	
Certificate Nr 06	NF EN 12101-2 : 2003
	
ZI NORD LES PINS - BP 13 - F 37230 LUYNES Tel.: (+33) 2 47 55 36 00 - Fax: (+33) 2 47 55 36 01 www.hexadome.com - contact@hexadome.com	
HEXASTEEL DOP 200 x 300 - PCA 10 opale options options options options	
Mechanism: xxxx - NSHEV with pneumatic, electric activation; xxxx Smoke extraction pressure (bar): xxxx - Daily ventilation pressure (bar): xxxxxx Aa = xxx m/s - Type B - WL (xxx) - SL (xxx) - T (xxx) - RE xxx (xxxx) - B xxx - B = S1d0 - Activation T = xx °C	

	Requirements provided by HEXADOME's products	Example of French and German requirements
1	Opening mechanism - Automatic and manual - Manual only**	- Automatic and manual - Manual only**
2	Opening of ventilator - Type B opening and closing	- Type A opening only - Type B opening and closing
3	Aerodynamic free area (AFA) - Mesure by FAS testing - Basic coefficient	- Mesure by FAS testing - Basic coefficient
4	Cycles - Reliability daily ventilation : Re =10000 - Reliability smoke extraction : Re = 1000*	- Reliability daily ventilation : Re =10000 - Reliability smoke extraction : Re = 300
5	Snowload - SL 250 Pa - SL 550 Pa*	- SL 250 Pa - SL 500 Pa
6	Lateral wind - Wind 10 m/s	- Wind 10 m/s
7	Low temperature - T (-15°)*	- T (0°)
8	Wind load - WL 1500 Pa	- WL 1500 Pa
9	Resistance to wind-induced vibration - Frequence 10 Hz	- Frequence 10 Hz
10	Resistance to heat - B 300 °C	- B 300 °C
11	Fire resistance performance - Indication of euroclasses E	- Indication of euroclasses E

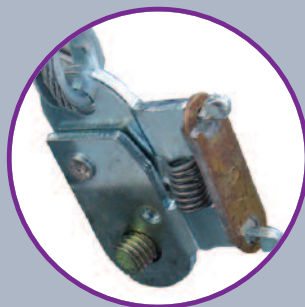
* The requirements in red are above the French requirements.

** Special case, please ask us.

THERMOFUSES

The thermofuse is intended to protect the NSHEV and ensure the automatic opening when there is no manual activation.

REMINDER



THERMAL FUSE INSTALLED IN OUR FACTORY

According to the EN 12101-2 specificities
See page 42 (Options smoke extraction)



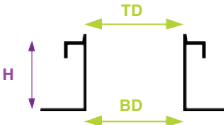
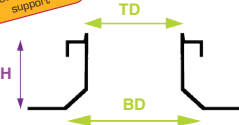
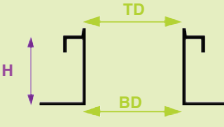
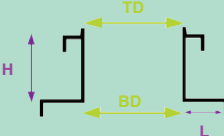
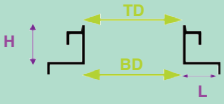
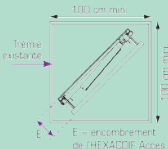
CO2 THERMOFUSE INSTALLED IN OUR FACTORY

Several temperature possibilities:
70 °C / 93 °C / 140 °C
According to the EN 12101-2 specificities
See page 42 (Options smoke extraction)

THE EUROCLASSES - FIRE RESISTANCE CLASSIFICATION

CLASSE ACCORDING TO NF			
MAIN CLASSIFICATION INFLAMMABILITY	ADDITIONNAL CLASSIFICATION SMOKE PRODUCTION	ADDITIONNAL CLASSIFICATION BURNING DROPLETS AND REMAINS	REQUIREMENT
A1	-	-	Incombustible
A2	s1	d0	M0
A2		d1	M1
A2	s2	d0	
	s3	d1	
B	s1 s2 s3	d0 d1	
C	s1	d0 d1	M2
D	s1 s2 s3	d0 d1 ⁽¹⁾	M3
			M4 (non dropping)
Any other classification except E-d2 et F			M4

TYPE OF UPSTAND AND DIMENSIONS OF THE STEEL SUPPORT

	STRAIGHT	OBLIQUE	
HEXASTEEL MoT HEXASTEEL MoP	 Example in C100: TD 100 x 100 DB 100 x 100	 Example in C100: TD 100 x 100 BD 120 x 120	- Metallic upstand height of 315 and up to 500 mm To produce your steel support, take the bottom dimensions (BD) of the upstand.
HEXASTEEL DoP HEXASTEEL Access		/	- Metallic upstand height 315 and up to 500 mm TD = BD
HEXACOIF MoT HEXACOIF MoP HEXACOIF DoP		/	- Adaptation upstand height 315 mm - Flat of upstand available in standard: L = 6 cm (hexacoif 6) or L = 10 cm (hexacoif 10) or in special: 5 cm < L < 15 cm (hexacoif SP)
HEXACOIF Access SPECIFICALLY DESIGNED FOR STAIR CASES		/	- Adaptation upstand height 135 mm - Flat of upstand available in standard: L = 6 cm (hexacoif 6) or L = 10 cm (hexacoif 10) - or in special: 5 cm < L < 15 cm (hexacoif SP) 

THE 3 LEVELS OF PERFORMANCES

Aerodynamic coefficient **Economic**



NSHEV: without aerodynamic device

Aerodynamic coefficient **Standard**



NSHEV: with or without spoilers p13



or



Spoilers or wind-breakers to be installed on the jobsite according to installation instructions

Aerodynamic coefficient **Superior**



NSHEV: with spoilers, wind-breakers or sheath p13



or



+



Spoilers or wind-breakers to be installed on the jobsite according to installation instructions

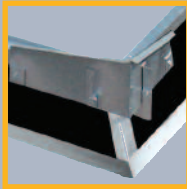


N O T I C E

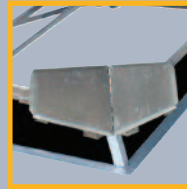
The aerodynamic performance (**E** **S** **+**) of the NSHEV delivered from our factory is defined by its technical characteristics (wind breakers or sheath) No other modification can be done on the jobsite.

SPOILERS AND WIND-BREAKERS

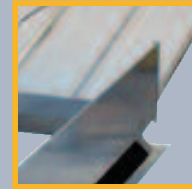
All our wind-breakers comply with the requirements of the resistance to wind-induced vibration test (vibration test of 10 Hz).



SMALL SPOILER



LARGE SPOILER



WIND-BREAKER

	DIMENSIONS	TYPE OF DEVICE
MoT MoP	C 100	SMALL SPOILER (H = 150 mm)
	C 120	
	C 140	
	C 150	LARGE SPOILER (H = 350 mm)
	C 160	
	C 180	
	C 200	WIND-BREAKER (H = 450 mm)
	100 x 200	
	120 x 200	LARGE SPOILER (H = 350 mm)
	140 x 200	
	160 x 200	
	180 x 200	
DoP	All dimensions	WIND-BREAKER (H = 450 mm)
Access	All dimensions	WITHOUT WIND-BREAKER

THE NEW PRODUCT DATA SHEETS

Name of the product

Hexasteel: upstand for waterproofed roof
Hexaonde: polyester profiled upstand for dry roof
Hexacoif: adaptation upstand for existing upstand for renovation and adaptation

Aerodynamic performance

available for the product

E: Eco
 S: Standard
 +: Plus

Logo 
 Logo 
 volunteer

HEXASTEEL MoP: the description
 Zenithal lighting and smoke ventilation

* Only C100, 100 x 140, 100 x 190 and 100 x 200

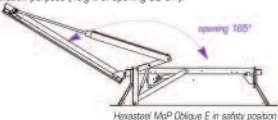
HEXASTEEL MoP
 is a smoke and heat ventilator (SHEV) in conformity with the CE Norm EN 12101-2: 0333 CPD219 003

STEEL: Metallic upstand for waterproofed roofs
Mo: Mono opening / vent
P: Pneumatic (opening / closing)

HEXASTEEL MoP is consisting of:

- A metallic upstand height 30, 40 or 50 cm, which can be equipped with an insulation board 15 mm ($U = 2.5W/m^2K$) or 30 mm ($U = 1.5W/m^2K$). The surface of the insulation can be bitumen or PVC coated for a direct weld with the waterproofing membrane.
- An aluminium frame which protects the periphery of dome or PCA.
- A thermofuse pre-installed in the factory.
- One opening flap controlled by thermofuse and/or central pneumatic box. The opening power is given by 1 C02 piston integrated in the whole system. The opening and closing function is controlled from the floor by activating a C02 cartridge for opening and a C02 cartridge for closing.
- In option, an electric drive 230 V can be installed for daily ventilation purpose (height of opening 30 cm).

THERMOFUSE PRE-MOUNTED IN THE FACTORY
 According to the EN 12101-2 specifications
 (See page 7 (Regimentation) and page 40 (Options smoke extraction))

Hexasteel MoP Oblique E in waiting position

Hexasteel MoP Oblique E in safety position

opening 100°

18

CE PRODUCT LINE - Hexasteel MoP - February 2007 / 00 44

Definition of the name of the NSHEV

DO: Double flap
 MO: Single flap

P: Opening/Closing pneumatic
 T: Opening/Closing by winch
 E: Opening/Closing electric

Characteristics

Description and technical characteristics of the product

Technical cut views

Cut view of the NSHEV opened and closed

The dimensions

TD, the top dimension is the reference dimension
BD, the bottom dimension is the dimension used to define the dimensions of the steel support and the calculation of geometrical surface

Snowload (SL)

According to the activation pressure used

Aerodynamic performances

The aerodynamic performances can vary according to the type of NSHEV (sheath, spoilers, wind-breakers, upstands...).

HEXASTEEL MoP: the characteristics

NEW UPSTAND
 OBLIQUE
 Check your dimensions
 of supports

References	Dimensions		Geometrical surface (m ²)	Performances			Characteristics				
	1 x L in cm	1 x P in cm		C (sec)	S (Standard)	+ (plus)	Working pressure (bar)				Total volume of water (m ³)
							PCA ¹	SL250 ²	SL550 ²	CA10D ³	
C 100 straight	100 x 100	100 x 100	1,00	0,40	0,69	0,74	10	12	10	12	1,11
C 100 oblique	100 x 100	120 x 120	1,44	0,58	0,79	-	10	12	10	12	1,11
C 120 oblique	120 x 120	140 x 140	1,96	0,78	1,13	-	10	12	10	12	1,76
C 130 oblique	130 x 130	150 x 150	2,25	0,90	1,32	-	10	12	10	12	1,76
C 140 oblique	140 x 140	160 x 160	2,56	1,02	1,53	-	10	16	10	16	2,55
C 150 oblique	150 x 150	170 x 170	2,89	1,16	1,76	-	10	18	10	18	2,55
C 160 oblique	160 x 160	180 x 180	3,24	1,30	2,02	-	12	21	12	21	2,69
C 180 oblique	180 x 180	200 x 200	4,00	1,60	2,56	-	10	18	-	-	4,34
C 200 oblique	200 x 200	220 x 220	4,84	1,94	3,15	-	13	24	-	-	4,34
100 x 140 straight	100 x 140	100 x 140	1,40	0,58	0,90	1,04	10	13	10	13	1,76
100 x 140 oblique	100 x 140	120 x 160	1,82	0,77	1,14	-	10	13	10	13	1,76
100 x 150 straight	100 x 150	100 x 150	1,50	0,60	0,99	1,11	10	13	10	13	1,76
100 x 150 oblique	100 x 150	120 x 170	2,04	0,82	1,22	-	10	13	10	13	1,76
100 x 200 straight	100 x 200	100 x 200	2,00	0,80	1,30	1,49	10	13	10	13	1,76
100 x 200 oblique	100 x 200	120 x 220	2,64	1,06	1,64	-	10	13	10	13	1,76
120 x 160 oblique	120 x 160	140 x 180	2,52	1,01	1,56	-	10	15	10	15	1,76
120 x 180 oblique	120 x 180	140 x 200	2,80	1,12	1,74	-	10	15	10	15	1,76
120 x 200 oblique	120 x 200	140 x 220	3,08	1,23	1,91	-	10	17	10	17	1,76
140 x 200 oblique	140 x 200	160 x 220	3,52	1,41	2,22	-	11	20	-	-	2,55
160 x 200 oblique	160 x 200	180 x 220	3,96	1,58	2,53	-	12	23	12	23	2,69

¹DT = Dimension of upstand and DB = Dimension Bottom of upstand
²PCA = Multilayer polycarbonate panels 10 or 16 mm, CA = Glasteel Aluminum Insulated and DD = Double Dome
³SL 250 Snow Load 250 (kg/m²) - SL 550 Snow Load 550 (kg/m²)

PRODUCT LINE - Hexasteel MoP - February 2007 / 03.6x

Volumes of the cylinders

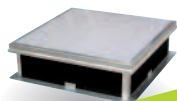
In liter

Upstand

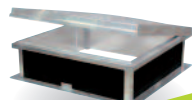
According to the reference, please check the type of upstand: straight upstand or oblique upstand

NOTES

COMFORT RANGE



HEXAFIX is a skylight for lighting purpose, to be installed on waterproofed roofs.



HEXAAIR is a skylight for lighting and daily ventilation, to be installed on waterproofed roofs.



HEXAPASS is a skylight for roof access, to be installed on waterproofed roofs.



HEXATREUIL is a skylight for daily ventilation by winch.

SQUARE

References	Dimensions opening	Geometrical surface in m ²	HEXAFIX	HEXAAIR	HEXAPASS	HEXATREUIL
C 50	50 x 50	0,25	●	●	●	●
C 60	60 x 60	0,36	●	●	●	●
C 70	70 x 70	0,49	●	●	●	●
C 80	80 x 80	0,64	●	●	●	●
C 85	85 x 85	0,72	●	●	●	●
C 100	100 x 100	1,00	●	●	●	●
C 120	120 x 120	1,44	●	●	●	●
C 130	130 x 130	1,69	●	●	●	●
C 140	140 x 140	1,96	●	●	●	●
C 150	150 x 150	2,25	●	●	●	●
C 160	160 x 160	2,25	●	●	●	●
C 180	180 x 180	3,24	●	●	●	●
C 200	200 x 200	4,00	●	●	●	●

● available in this dimension

RECTANGULAR

References	Dimensions opening	Geometrical surface in m ²	HEXAFIX	HEXAAIR	HEXAPASS	HEXATREUIL
50 x 100	50 x 100	0,50	●	●	●	●
70 x 100	70 x 100	0,70	●	●	●	●
100 x 140	100 x 140	1,40	●	●	●	●
100 x 150	100 x 150	1,50	●	●	●	●
100 x 200	100 x 200	2,00	●	●	●	●
120 x 160	120 x 160	1,92	●	●	●	●
120 x 180	120 x 180	2,16	●	●	●	●
120 x 200	120 x 200	2,40	●	●	●	●
120 x 240	120 x 240	2,88	●	●	●	●
120 x 250	120 x 250	3,00	●	●	●	●
120 x 300	120 x 300	3,60	●	●	●	●
140 x 200	140 x 200	2,80	●	●	●	●
150 x 250	150 x 250	3,75	●	●	●	●
150 x 300	150 x 300	4,50	●	●	●	●
160 x 200	160 x 200	3,20	●	●	●	●
160 x 250	160 x 250	4,00	●	●	●	●
160 x 300	160 x 300	4,80	●	●	●	●
180 x 250	180 x 250	4,50	●	●	●	●
180 x 300	180 x 300	4,80	●	●	●	●
200 x 250	200 x 250	5,00	●	●	●	●
200 x 300	200 x 300	6,00	●	●	●	●

HEXASTEEL DoP: the description

Zenithal lighting, daily and smoke ventilation



HEXASTEEL DoP

HEXASTEEL DOP is a smoke and heat ventilator (SHEV) in conformity with the CE norm EN 12101-2: 0333 CPD219002

STEEL: Metallic upstand for waterproofed roofs
Do: Double opening / vent
P: Pneumatic (opening / closing)



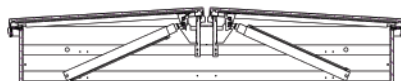
THERMOFUSE PRÉ-MOUNTED IN THE FACTORY

According to the EN 12101-2 specificities

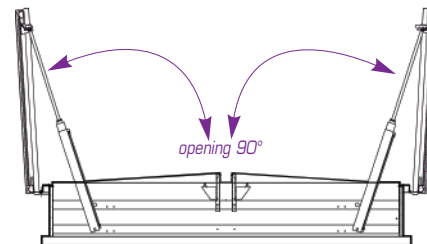
See page 7 (Reglementation) and page 42 (Options smoke extraction)

HEXASTEEL MoP is consisting of:

- A metallic upstand height 30, 40 or 50 cm, which can be equipped with an insulation board 15 mm ($U = 2,5W/m^2K$) or 30 mm ($U = 1,5W/m^2K$). The surface of the insulation can be bitumen or PVC coated for a direct weld with the waterproofing membrane.
- An aluminium frame which protects the periphery of dome or PCA.
- A thermofuse pré-installed in the factory.
- Two opening flaps controlled by thermofuse and/or central pneumatic box. The opening power is given by 2 CO₂ pistons integrated in the whole system. The opening and closing is controlled from the floor by activating a CO₂ cartridge for opening and a CO₂ cartridge for closing.
- In option, an electric drive 230 V can be installed for daily ventilation purpose (height of opening 30 cm).

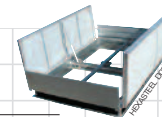


Hexasteel DoP E in waiting position



Hexasteel DoP E in safety position

HEXASTEEL DoP: the characteristics



Dimensions			Performances				Characteristics				
References	DT ⁽¹⁾ l x L in cm	DB ⁽¹⁾ l x L in cm	Geometrical area in m²	Aerodynamic Surface (Aa) in m²			Working pressure (bar)				Total volume of pistons in liters in liters (L)
							PCA ⁽²⁾		CAI/DD ⁽²⁾		
				E (eco)	S (Standard)	+ (plus)	SL 250 ⁽³⁾	SL 550 ⁽³⁾	SL 250 ⁽³⁾	SL 550 ⁽³⁾	
C 180 straight	180 x 180	180 x 180	3,24	1,30	2,22	2,43	10	14	10	14	1,14
C 200 straight	200 x 200	200 x 200	4,00	1,60	2,72	3,00	10	18	10	18	1,31
120 x 240 straight	120 x 240	120 x 240	2,88	1,15	1,98	2,16	10	19	10	19	0,63
120 x 250 straight	120 x 250	120 x 250	3,00	1,20	2,06	2,25	10	19	10	19	0,63
120 x 300 straight	120 x 300	140 x 300	3,60	1,44	2,48	2,70	12	22	12	22	0,63
150 x 250 straight	150 x 250	150 x 250	3,75	1,50	2,57	2,81	10	15	10	15	0,87
150 x 300 straight	150 x 300	150 x 300	4,50	1,80	3,06	3,38	10	18	10	18	0,87
160 x 250 straight	160 x 250	160 x 250	4,00	1,60	2,73	3,00	10	16	10	16	1,60
160 x 300 straight	160 x 300	160 x 300	4,80	1,92	3,26	3,61	10	19	10	19	1,02
180 x 250 straight	180 x 250	180 x 250	4,50	1,80	3,06	3,39	10	19	10	19	1,14
180 x 300 straight	180 x 300	180 x 300	5,40	2,16	3,67	4,09	14	23	14	23	1,14
200 x 250 straight	200 x 250	200 x 250	5,00	2,00	3,40	3,78	12	22	12	22	1,31
200 x 300 straight	200 x 300	200 x 300	6,00	2,40	4,08	4,56	14	26	14	26	1,31

⁽¹⁾ DT = Dimension Top of upstand and DB = Dimension Bottom of upstand

⁽²⁾ PCA = Multilayer Polycarbonate panels 10 or 16 mm, CAI = Cover Aluminium Insulated and DD = Double Dôme

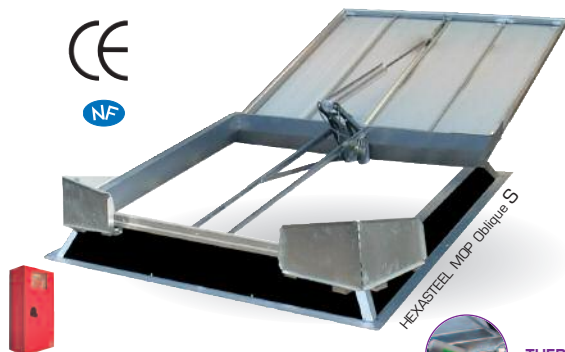
⁽³⁾ SL 250 (Snow Load 250 daN/m²) – SL 550 (Snow Load 550 daN/m²)

HEXASTEEL MoP: the description

Zenithal lighting and smoke ventilation



*Cf list



* Only C100, 100 x 140, 100 x 150 and 100 x 200

HEXASTEEL MoP

is a smoke and heat ventilator (SHEV) in conformity with the CE Norm EN 12101-2: 0333 CPD219 003

STEEL: Metallic upstand for waterproofed roofs

Mo: Mono opening / vent

P: Pneumatic (opening / closing)



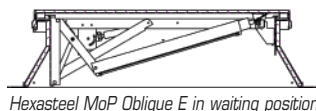
THERMOFUSE PRÉ-MOUNTED IN THE FACTORY

According to the EN 12101-2 specifications

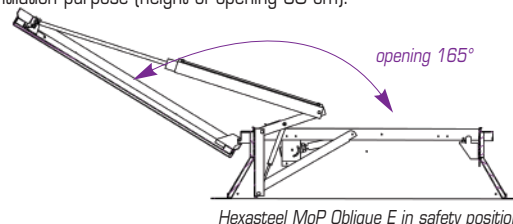
See page 7 (Reglementation) and page 42 (Options smoke extraction)

HEXASTEEL MoP is consisting of:

- A metallic upstand height 30, 40 or 50 cm, which can be equipped with an insulation board 15 mm ($U = 2,5W/m^2K$) or 30 mm ($U = 1,5W/m^2K$). The surface of the insulation can be bitumen or PVC coated for a direct weld with the waterproofing membrane.
- An aluminium frame which protects the periphery of dome or PCA.
- A thermofuse pré-installed in the factory.
- One opening flap controlled by thermofuse and/or central pneumatic box. The opening power is given by 1 CO₂ piston integrated in the whole system. The opening and closing function is controlled from the floor by activating a CO₂ cartridge for opening and a CO₂ cartridge for closing.
- In option, an electric drive 230 V can be installed for daily ventilation purpose (height of opening 30 cm).

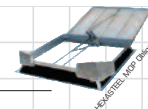


Hexasteel MoP Oblique E in waiting position



Hexasteel MoP Oblique E in safety position

HEXASTEEL MoP: the characteristics



**NEW UPSTAND
OBLIQUE**
Check your dimensions
of supports



Dimensions			Performances				Characteristics				
References	DT ⁽¹⁾ l x L in cm	DB ⁽¹⁾ l x L in cm	Geometrical area in m ²	Aerodynamic Surface (Aa) in m ²			Working pressure (bar)				Total volume of pistons in liters (L)
				E (eco)	S (Standard)	+ (plus)	PCA ⁽²⁾		CAI/DD ⁽²⁾		
							SL 250 ⁽³⁾	SL 550 ⁽³⁾	SL 250 ⁽³⁾	SL 550 ⁽³⁾	
C 100 straight	100 x 100	100 x 100	1,00	0,40	0,69	0,74	10	12	10	12	1,11
C 100 oblique	100 x 100	120 x 120	1,44	0,58	0,79	-	10	12	10	12	1,11
C 120 oblique	120 x 120	140 x 140	1,96	0,78	1,13	-	10	12	10	12	1,76
C 130 oblique	130 x 130	150 x 150	2,25	0,90	1,32	-	10	12	10	12	1,76
C 140 oblique	140 x 140	160 x 160	2,56	1,02	1,53	-	10	16	10	16	2,55
C 150 oblique	150 x 150	170 x 170	2,89	1,16	1,76	-	10	18	10	18	2,55
C 160 oblique	160 x 160	180 x 180	3,24	1,30	2,02	-	12	21	12	21	2,69
C 180 oblique	180 x 180	200 x 200	4,00	1,60	2,56	-	10	18			4,34
C 200 oblique	200 x 200	220 x 220	4,84	1,94	3,15	-	13	24			4,34
100 x 140 straight	100 x 140	100 x 140	1,40	0,56	0,93	1,04	10	13	10	13	1,76
100 x 140 oblique	100 x 140	120 x 160	1,92	0,77	1,14	-	10	13	10	13	1,76
100 x 150 straight	100 x 150	100 x 150	1,50	0,60	0,99	1,11	10	13	10	13	1,76
100 x 150 oblique	100 x 150	120 x 170	2,04	0,82	1,22	-	10	13	10	13	1,76
100 x 200 straight	100 x 200	100 x 200	2,00	0,80	1,30	1,48	10	13	10	13	1,76
100 x 200 oblique	100 x 200	120 x 220	2,64	1,06	1,64	-	10	13	10	13	1,76
120 x 160 oblique	120 x 160	140 x 180	2,52	1,01	1,56	-	10	15	10	15	1,76
120 x 180 oblique	120 x 180	140 x 200	2,80	1,12	1,74	-	10	15	10	15	1,76
120 x 200 oblique	120 x 200	140 x 220	3,08	1,23	1,91	-	10	17	10	17	1,76
140 x 200 oblique	140 x 200	160 x 220	3,52	1,41	2,22	-	11	20			2,55
160 x 200 oblique	160 x 200	180 x 220	3,96	1,58	2,53	-	12	23	12	23	2,69

⁽¹⁾ DT = Dimension Top of upstand and DB = Dimension Bottom of upstand

⁽²⁾ PCA = Multilayer Polycarbonate panels 10 or 16 mm, CAI = Cover Aluminium Insulated and DD = Double Dôme

⁽³⁾ SL 250 (Snow Load 250 daN/m²) – SL 550 (Snow Load 550 daN/m²)

HEXASTEEL Access (MoT, MoP, MoE): the description

Zenithal lighting, daily and smoke ventilation, roof access



IDEAL FOR STAIRCASES



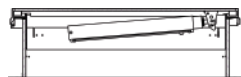
HEXASTEEL Access

is a smoke and heat ventilator (SHEV) in conformity with the CE Norm EN 12101-2: 0333 CPD219 003

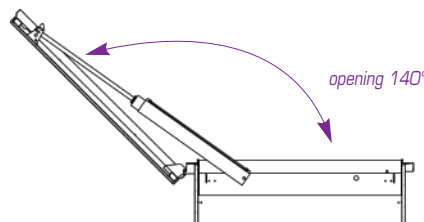
STEEL: Metallic upstand for waterproofed roofs
Access: Roof Access

HEXASTEEL Access is consisting of:

- A metallic upstand height 30, 40 or 50 cm, which can be equipped with an insulation board 15 mm ($U = 2,5W/m^2K$) or 30 mm ($U = 1,5W/m^2K$). The surface of the insulation can be bitumen or PVC coated for a direct weld with the waterproofing membrane.
- An aluminium frame which protects the periphery of dome or PCA.
- One opening flap controlled by spindle (MOT), CO2 opening and closing box (MOP) or 24 V electric drive (MOE).

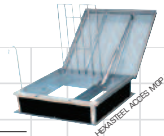


Hexasteel Access MoP Eco in waiting position



Hexasteel Access MoP Eco in safety position

HEXASTEEL Access: the characteristics



Dimensions			Performances				Characteristics											
References	DT ⁽¹⁾ l x L in cm	DB ⁽¹⁾ l x L in cm	Geometrical area in m ²	Aerodynamic Surface (Aa) in m ²			Snow overcharge / Working pressure											
							MOT				MOE				MOP			
							PCA ⁽²⁾		CAI/DD ⁽²⁾		PCA ⁽²⁾		CAI/DD ⁽²⁾		PCA ⁽²⁾		CAI/DD ⁽²⁾	
				E (eco)	S (Standard)	+ (plus)	SL 250 ⁽³⁾	SL 550 ⁽³⁾	SL 250 ⁽³⁾	SL 550 ⁽³⁾	SL 250 ⁽³⁾	SL 550 ⁽³⁾	SL 250 ⁽³⁾	SL 550 ⁽³⁾	SL 250 ⁽³⁾	SL 550 ⁽³⁾	SL 250 ⁽³⁾	SL 550 ⁽³⁾
C 100 straight	100 x 100	100 x 100	1,00	0,40	-	-	x		x		x	x	x	x	x	x	x	x
C 120 oblique	120 x 120	120 x 120	1,44	0,58	-	-	x		x		x	x	x	x	x	x	x	x

⁽¹⁾ DT = Dimension Top of upstand and DB = Dimension Bottom of upstand

⁽²⁾ PCA = Multilayer Polycarbonate panels 10 or 16 mm, CAI := Cover Aluminium Insulated and DD = Double Dôme

⁽³⁾ SL 250 (Snow Load 250 daN/m²) – SL 550 (Snow Load 550 daN/m²)



MoT: opening / closing by winch



THERMOFUSE PRÉ-MOUNTED IN THE FACTORY

According to the EN 12101-2 specifications
See page 7 (Reglementation) and page 42 (Options
smoke extraction)



MoP: opening / closing pneumatic



CO2 THERMOFUSE PRÉ-INSTALLED IN THE FACTORY

According to the EN 12101-2 specifications
See page 7 (Reglementation) and page 42 (Options
smoke extraction)

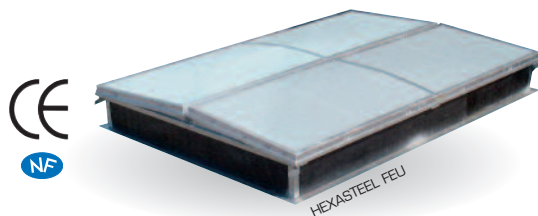


MoE: opening / closing by electric motor 24 V

**CONTACT
US**

HEXASTEEL FEU: the description

Zenithal lighting and smoke ventilation



HEXASTEEL FEU

is a smoke and heat ventilator (SHEV) in conformity with the CE Norm EN 12101-2: 0333 CPD219 003

STEEL: Metallic upstand for waterproofed roofs
FEU: "Opening only" - Closing from the roof



THERMOFUSE PRÉ-MOUNTED IN THE FACTORY

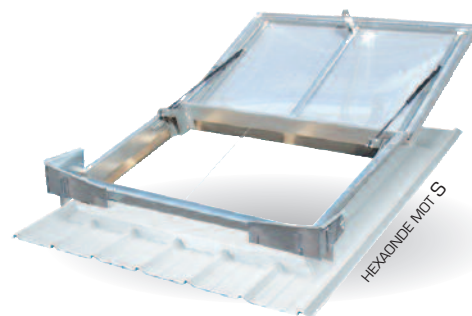
According to the EN 12101-2 specificities

See page 7 (Reglementation) and page 42 (Options smoke extraction)

HEXASTEEL FEU is consisting of:

- **A metallic upstand** height 30, 40 or 50 cm, which can be equipped with an insulation board 15 mm ($U = 2,5W/m^2K$) or 30 mm ($U = 1,5W/m^2K$). The surface of the insulation can be bitumen or PVC coated for a direct weld with the waterproofing membrane.
- **An aluminium frame** which protects the periphery of PCA.
- **A thermofuse** integrated in the bolt.
- **One or two opening flap locked by electric or pneumatic bolt** and controlled by central pneumatic or electric box. The opening power is given by gas springs integrated in the system. The opening function is controlled from the floor by sending an electric or pneumatic signal (24 or 48 V).
- The closing is down from the roof.

CONTACT US

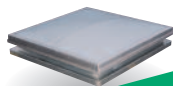


THE CE SMOKE VENTS PRODUCT LINE IS ALSO AVAILABLE WITH POLYESTER UPSTAND FOR DIRECT INSTALLATION ON STEEL DECK OR SANDWICH PANEL ROOFS.

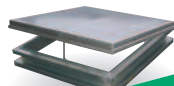
PLEASE CONTACT US TO KNOW MORE ABOUT ALL OUR AVAILABLE PROFILES FOR THESE ROOFS.

NOTES

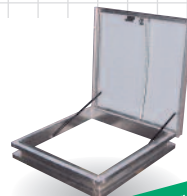
COMFORT RANGE



HEXACOIF FIX is a skylight for lighting purpose, to be installed on an existing upstand.



HEXACOIF AIR is a skylight for lighting and daily ventilation, to be installed on an existing upstand.



HEXACOIF PASS is a skylight for roof access, to be installed on an existing upstand.



HEXACOIF TREUIL is a skylight for daily ventilation by winch, to be installed on an existing upstand.



SQUARE

References	Dimensions opening	Geometrical surface in m ²	HEXAFIX	HEXAAIR	HEXAPASS	HEXATREUIL
C 50	50 x 50	0,25	●	●	●	●
C 60	60 x 60	0,36	●	●	●	●
C 70	70 x 70	0,49	●	●	●	●
C 80	80 x 80	0,64	●	●	●	●
C 85	85 x 85	0,72	●	●	●	●
C 100	100 x 100	1,00	●	●	●	●
C 120	120 x 120	1,44	●	●	●	●
C 130	130 x 130	1,69	●	●	●	●
C 140	140 x 140	1,96	●	●	●	●
C 150	150 x 150	2,56	●	●	●	●
C 160	160 x 160	2,25	●	●	●	●
C 180	180 x 180	3,24	●	●	●	●
C 200	200 x 200	4,00	●	●	●	●

● Available in this dimension

RECTANGULAR

References	Dimensions opening	Geometrical surface in m ²	HEXAFIX	HEXAAIR	HEXAPASS	HEXATREUIL
50 x 100	50 x 100	0,50	●	●	●	●
70 x 100	70 x 100	0,70	●	●	●	●
100 x 140	100 x 140	1,40	●	●	●	●
100 x 150	100 x 150	1,50	●	●	●	●
100 x 200	100 x 200	2,00	●	●	●	●
120 x 160	120 x 160	1,92	●	●	●	●
120 x 180	120 x 180	2,16	●	●	●	●
120 x 200	120 x 200	2,40	●	●	●	●
120 x 240	120 x 240	2,88	●	●	●	●
120 x 250	120 x 250	3,00	●	●	●	●
120 x 300	120 x 300	3,60	●	●	●	●
140 x 200	140 x 200	2,80	●	●	●	●
150 x 250	150 x 250	3,75	●	●	●	●
150 x 300	150 x 300	4,50	●	●	●	●
160 x 200	160 x 200	3,20	●	●	●	●
160 x 250	160 x 250	4,00	●	●	●	●
160 x 300	160 x 300	4,80	●	●	●	●
180 x 250	180 x 250	4,50	●	●	●	●
180 x 300	180 x 300	5,40	●	●	●	●
200 x 250	200 x 250	5,00	●	●	●	●
200 x 300	200 x 300	6,00	●	●	●	●

HEXACOIF DoP: the description

Zenithal lighting, daily and smoke ventilation



HEXACOIF DoP

is a smoke and heat ventilator (SHEV) in conformity with the CE norm EN 12101-2: 0333 CPD219002

COIF: Adaptation upstand for installation on existing upstand

Do: Double opening / vent

P: Pneumatic (opening / closing)



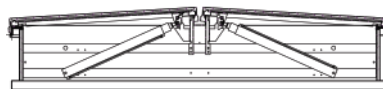
THERMOFUSE PRÉ-MOUNTED IN THE FACTORY

According to the EN 12101-2 specificities

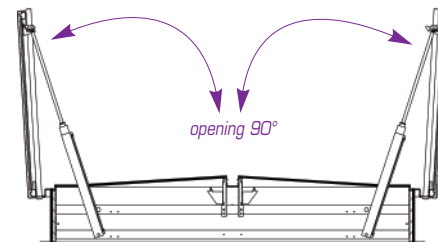
See page 7 (Reglementation) and page 42 (Options smoke extraction)

HEXACOIF DoP is consisting of:

- A metallic upstand height 315 mm, which can be additionally equipped with an insulation board 15 mm ($U = 2,5W/m^2K$) or 30 mm ($U = 1,5W/m^2K$).
- An aluminium frame which protects the periphery of dome or PCA.
- A thermofuse pré-installed in the factory.
- Two opening flaps controlled by thermofuse and/or central pneumatic box. The opening power is given by 2 CO₂ pistons integrated in the whole system. The opening and closing is controlled from the floor by activating a CO₂ cartridge for opening and a CO₂ cartridge for closing.
- In option, an electric drive 230 V can be installed for daily ventilation purpose (height of opening 30 cm).



Hexacoif DoP E in waiting position



Hexacoif DoP E in safety position

HEXACOIF DoP: the characteristics



Dimensions			Performances				Characteristics				
References	DT ⁽¹⁾ l x L in cm	DB ⁽¹⁾ l x L in cm	Geometrical area in m²	Aerodynamic Surface (Aa) in m²			Working pressure (bar)				Total volume of piston in liters (L)
							PCA ⁽²⁾		CAI/DD ⁽²⁾		
				E (eco)	S (Standard)	+ (plus)	SL 250 ⁽⁴⁾	SL 550 ⁽⁴⁾	SL 250 ⁽⁴⁾	SL 550 ⁽⁴⁾	
C 180 straight	180 x 180	180 x 180	3,24	1,30	2,22	2,43	10	14	10	14	1,14
C 200 straight	200 x 200	200 x 200	4,00	1,60	2,72	300	10	18	10	18	1,60
120 x 240 straight	120 x 240	120 x 240	2,88	1,15	1,98	2,16	10	19	10	19	0,63
120 x 250 straight	120 x 250	120 x 250	3,00	1,20	2,06	2,25	10	19	10	19	0,63
120 x 300 straight	120 x 300	120 x 300	3,60	1,44	2,48	2,70	12	22	12	22	0,63
150 x 250 straight	150 x 250	150 x 250	3,75	1,50	2,57	2,81	10	15	10	15	0,87
150 x 300 straight	150 x 300	150 x 300	4,50	1,80	3,02	3,38	10	18	10	18	0,87
160 x 250 straight	160 x 250	160 x 250	4,00	1,60	2,73	3,00	10	16	10	16	1,02
160 x 300 straight	160 x 300	160 x 300	4,80	1,92	3,26	3,61	10	19	10	19	1,02
180 x 250 straight	160 x 250	160 x 250	4,50	1,80	3,06	3,39	10	19	10	19	1,14
180 x 300 straight	180 x 300	180 x 300	5,40	2,16	3,67	4,09	14	23	14	23	1,14
200 x 250 straight	200 x 250	200 x 250	5,00	2,00	3,40	3,78	12	22	12	22	1,31
200 x 300 straight	200 x 300	200 x 300	6,00	2,40	4,08	4,56	14	26	14	26	1,31

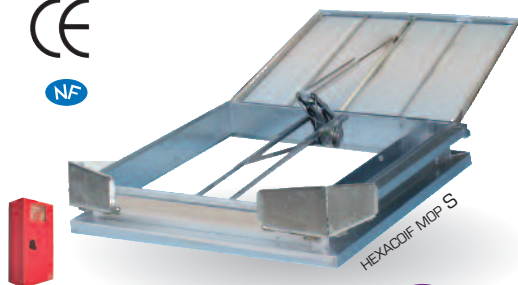
⁽¹⁾ DT = Dimension Top of upstand and DB = Dimension Bottom of upstand

⁽²⁾ PCA = Multilayer Polycarbonate panels 10 or 16 mm, CAI = Cover Aluminium Insulated and DD = Double Dôme

⁽³⁾ SL 250 (Snow Load 250 daN/m²) - SL 550 (Snow Load 550 daN/m²)

HEXACOIF MoP: the description

Zenithal lighting and smoke ventilation



HEXACOIF MoP

is a smoke and heat ventilator (SHEV) in conformity with the CE Norm EN 12101-2: 0333 CPD219 003

COIF: Adaptation upstand for installation on existing upstand

Mo: Mono opening / vent

P: Pneumatic (opening / closing)



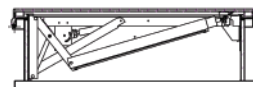
THERMOFUSE PRÉ-MOUNTED IN THE FACTORY

According to the EN 12101-2 specificities

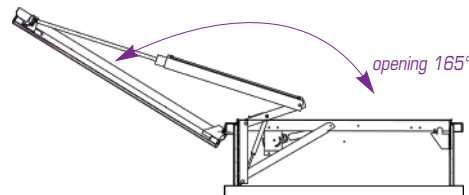
See page 7 (Règlementation) and page 42 (Options smoke extraction)

HEXACOIF MoP is consisting of:

- A metallic upstand height 315 mm, which can be additionally equipped with an insulation board 15 mm ($U = 2,5W/m^2K$) or 30 mm ($U = 1,5W/m^2K$).
- An aluminium frame which protects the periphery of dome or PCA.
- A thermofuse pré-installed in the factory.
- One opening flap controlled by thermofuse and/or central pneumatic box. The opening power is given by 1 CO2 piston integrated in the whole system. The opening and closing function is controlled from the floor by activating a CO2 cartridge for opening and a CO2 cartridge for closing.
- In option, an electric drive 230 V can be installed for daily ventilation purpose (height of opening 30 cm).

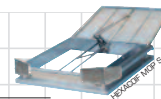


Hexacoif MoP E in waiting position



Hexacoif MoP E in safety position

HEXACOIF MoP: the characteristics



Dimensions			Performances				Characteristics				
References	DT ⁽¹⁾ l x L in cm	DB ⁽¹⁾ l x L in cm	Geometrical area in m²	Aerodynamic Surface (Aa) in m²			Working pressure (bar)				Total volume of pistons in liters (L)
							PCA ⁽²⁾		CAI/DD ⁽²⁾		
				E (eco)	S (Standard)	+ (plus)	SL 250 ⁽³⁾	SL 550 ⁽³⁾	SL 250 ⁽³⁾	SL 550 ⁽³⁾	
C 100 straight	100 x 100	100 x 100	1,00	0,40	0,69	0,74	10	12	10	12	1,11
C 120 straight	120 x 120	120 x 120	1,44	0,58	0,96	1,07	10	12	10	12	1,76
C 130 straight	130 x 130	130 x 130	1,69	0,68	1,10	1,25	10	12	10	12	1,76
C 140 straight	140 x 140	140 x 140	1,96	0,78	1,28	1,45	10	16	10	16	2,55
C 150 straight	150 x 150	150 x 150	2,25	0,90	1,49	1,66	10	18	10	18	2,55
C 160 straight	160 x 160	160 x 160	2,56	1,02	1,69	1,86	12	21	12	21	2,69
C 180 straight	180 x 180	180 x 180	3,24	1,30	2,14	2,29	10	18			4,34
C 200 straight	200 x 200	200 x 200	4,00	1,60	2,64	2,76	13	24			4,34
100 x 140 straight	100 x 140	100 x 140	1,40	0,56	0,93	1,04	10	13	10	13	1,76
100 x 150 straight	100 x 150	100 x 150	1,50	0,60	0,99	1,11	10	13	10	13	1,76
100 x 200 straight	100 x 200	100 x 200	2,00	0,80	1,30	1,48	10	13	10	13	1,76
120 x 160 straight	120 x 160	120 x 160	1,92	0,77	1,25	1,42	10	15	10	15	1,76
120 x 180 straight	120 x 180	120 x 180	2,16	0,86	1,42	1,60	10	15	10	15	1,76
120 x 200 straight	120 x 200	120 x 200	2,40	0,96	1,58	1,78	10	17	10	17	1,76
140 x 200 straight	140 x 200	140 x 200	2,80	1,12	1,85	2,02	11	20	11	20	2,55
160 x 200 straight	160 x 200	160 x 200	3,20	1,28	2,11	2,27	12	23	12	23	2,69

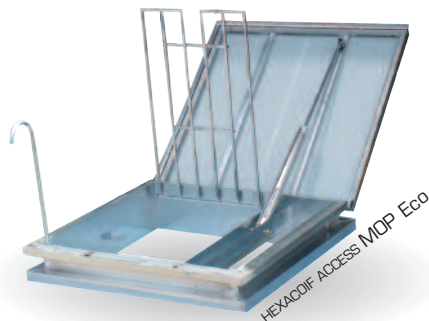
⁽¹⁾ DT = Dimension Top of upstand and DB = Dimension Bottom of upstand

⁽²⁾ PCA = Multilayer Polycarbonate panels 10 or 16 mm, CAI = Cover Aluminium Insulated and DD = Double Dôme

⁽³⁾ SL 250 (Snow Load 250 daN/m²) – SL 550 (Snow Load 550 daN/m²)

HEXACOIF Access (MoT, MoP, MoE): the description

Zenithal lighting, daily and smoke ventilation, roof access



HEXACOIF Access

is a smoke and heat ventilator (SHEV) in conformity with the CE Norm EN 12101-2: 0333 CPD219 003

COIF: Adaptation upstand for installation on existing upstand

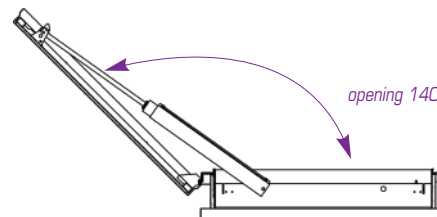
Access: Roof Access

HEXACOIF Access is consisting of:

- A metallic upstand height 315 mm, which can be equipped with an insulation board 15 mm ($U = 2,5W/m^2K$) or 30 mm ($U = 1,5W/m^2K$).
- An aluminium frame which protects the periphery of dome or PCA.
- One opening flap controlled by spindle (MOT), CO2 opening and closing box (MOP) or 24 V electric drive (MOE).

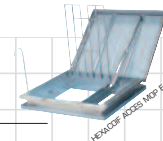


Hexacoif Access MoP Eco in waiting position



Hexacoif Access MoP Eco in safety position

HEXACOIF Access: the characteristics



Dimensions			Performances				Characteristics												
References	DT ⁽¹⁾ l x L in cm	DB ⁽¹⁾ l x L in cm	Geometrical area in m²	Aerodynamic Surface (Aa) in m²			Snow overcharge / Working pressure												Total volume of pistons in liters (L)
							MOT		MOE				MOP						
				PCA ⁽²⁾		CAI/DD ⁽²⁾		PCA ⁽²⁾		CAI/DD ⁽²⁾		PCA ⁽²⁾		CAI/DD ⁽²⁾					
				E (eco)	S (Standard)	+ (plus)	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾	SL 250 ⁽³⁾		
C 100 straight	100 x 100	100 x 100	1,00	0,40	-	-	x		x		15	25	15	25	15	25	15	25	2,01
C 120 straight	120 x 120	120 x 120	1,44	0,58	-	-	x		x		14	25	14	25	14	25	14	25	2,11

⁽¹⁾ DT = Dimension Top of upstand and DB = Dimension Bottom of upstand

⁽²⁾ PCA = Multilayer Polycarbonate panels 10 or 16 mm, CAI = Cover Aluminium Insulated and DD = Double Dôme

⁽³⁾ SL 250 (Snow Load 250 daN/m²) – SL 550 (Snow Load 550 daN/m²)



MoT: opening / closing by winch



THERMOFUSE PRÉ-MOUNTED IN THE FACTORY

According to the EN 12101-2 specificities
See page 7 (Reglementation) and page 42 (Options
smoke extraction)



MoP: opening / closing pneumatic



CO2 THERMOFUSE PRÉ-INSTALLED IN THE FACTORY

According to the EN 12101-2 specificities
See page 7 (Reglementation) and page 42 (Options
smoke extraction)



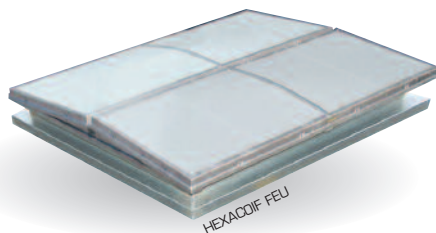
MoE: opening / closing by electric motor 24 V



CONTACT
US

HEXACOIF FEU: the description

Zenithal lighting and smoke ventilation



THERMOFUSE PRÉ-MOUNTED IN THE FACTORY

According to the EN 12101-2 specificities

See page 7 (Reglementation) and page 42 (Options smoke extraction)

HEXACOIF FEU

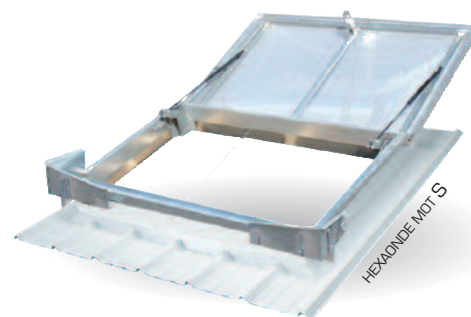
is a smoke and heat ventilator (SHEV) in conformity with the CE Norm EN 12101-2: 0333 CPD219 003

COIF: Adaptation upstand for installation on existing upstand
FEU: "Opening only" - Closing from the roof

HEXACOIF FEU is consisting of:

- A **metallic upstand** height 315 mm, which can be additionally equipped with an insulation board 15 mm ($U = 2,5W/m^2K$) or 30 mm ($U = 1,5W/m^2K$).
- An **aluminium frame** which protects the periphery of Dome or PCA.
- A **thermofuse** integrated in the bolt.
- **One or two opening flap locked by electric or pneumatic bolt** and controlled by central pneumatic or electric box. The opening power is given by gas springs integrated in the whole system. The opening function is controlled from the floor by sending an electric or pneumatic signal (24 or 48 V).
- The closing is down from the roof.

CONTACT US



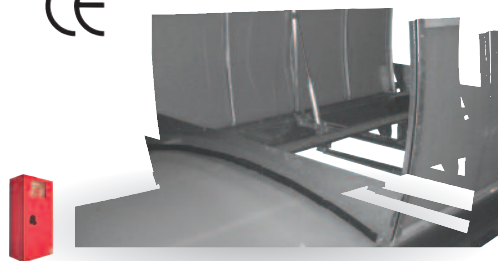
THE CE SMOKE VENTS PRODUCT LINE IS ALSO AVAILABLE WITH POLYESTER UPSTAND FOR DIRECT INSTALLATION ON STEEL DECK OR SANDWICH PANEL ROOFS.

PLEASE CONTACT US TO KNOW MORE ABOUT ALL OUR AVAILABLE PROFILES FOR THESE ROOFS.

NOTES

HEXAVOÛTE DoP

Zenithal lighting, daily and smoke ventilation



HEXAVOÛTE DoP

is a skylight with integrated smoke vents destined to roofs with waterproofing membranes and steel deck roofs in order to provide lighting.

Do: Double opening / flap

P: Pneumatic (opening / closing)

DESCRIPTION

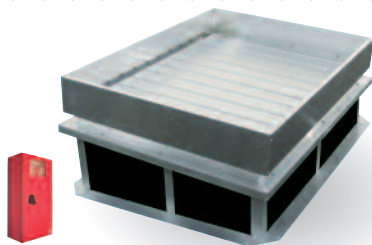
HEXAVOÛTE DoP is delivered in standard with a low arrow, for other type of arrows, please feel free to contact us.

Sizes		HEXAVOÛTE DOP					
Width	Length	Geometric Surface	Aerodynamic Surface Aa		Pressure to work (bar)		Total volume of jacks in Liter (L)
			Standard big windshield (GPV)	Standard small windshield (PPV)	Snow overcharge		
cm	cm	m²			SL250	SL550	L
150	300	4,50	2,93	2,25	14	26	0,56
200	200	4,00	2,60	2,19	10	15	1,31
200	300	6,00	3,90	3,03	12	23	1,31
250	200	5,00	3,25	2,75	11	22	1,63
300	200	6,00	3,90	3,28	12	23	2,01

On request, the CO2 smoke flaps can be equipped for daily ventilation with help of a 230 V motor

HEXASTEEL LAME TPS

Daily and smoke ventilation



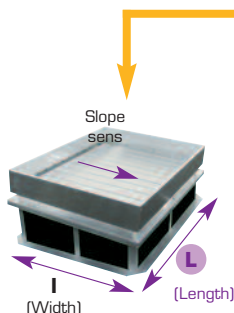
HEXASTEEL LAME TPS

is a smoke and heat ventilator (SHEV in conformity with the CE norm EN 12101-2).

T: Roof

P: Pneumatic

S: Aluminium louvers

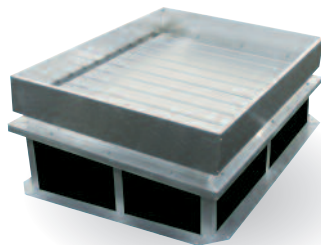


(1) In order to know the technical specification for adaptable upstand (Hexacoif lame), please feel free to contact us.
Also available with electric drive.

Sizes ⁽¹⁾			Performances		Characteristics		
References	Width (I) x Length (L)	Number of aluminium blades <i>Define the length L</i>	Geometric Surface in m ²	Aerodynamic Surface	Snow overcharge and linked jack		
					Ø jack in mm	Volume of jack in liter (L)	Snow over-charge SL
C 100	1046 x 1046	8	1,09	0,73	Ø = 50	0,40	SL = 500
C 110	1171 x 1171	9	1,37	0,91	Ø = 50	0,40	SL = 500
C 120	1296 x 1296	10	1,67	1,11	Ø = 50	0,40	SL = 500
C 140	1421 x 1421	11	2,01	1,34	Ø = 50	0,40	SL = 500
C 150	1546 x 1546	12	2,39	1,60	Ø = 50	0,40	SL = 500
C 160	1671 x 1671	13	2,79	1,86	Ø = 50	0,40	SL = 500
C 170	1796 x 1796	14	3,22	2,15	Ø = 50	0,40	SL = 500
C 190	1921 x 1921	15	3,69	2,47	Ø = 50	0,40	SL = 500
R 100 x 160	1000 x 1671	13	1,67	1,11	Ø = 50	0,40	SL = 500
R 100 x 210	1000 x 2171	17	2,17	1,45	Ø = 50	0,40	SL = 500
R 140 x 210	1400 x 2171	17	3,03	2,03	Ø = 50	0,40	SL = 500
R 150 x 260	1500 x 2671	21	4,00	2,68	Ø = 50	0,40	SL = 250
R 150 x 300	1500 x 3046	24	4,56	3,05	Ø = 50	0,40	SL = 250
R 200 x 300	2000 x 3046	24	6,09	4,08	Ø = 50	0,40	SL = 250

HEXASTEEL LAME TPI

Daily and smoke ventilation



HEXASTEEL LAME TPI

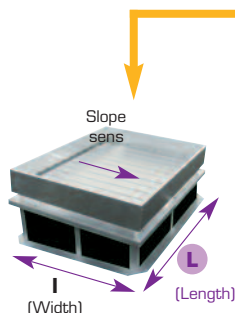
is a smoke and heat ventilator (SHEV in conformity with the CE norm EN 12101-2).

T: Roof

P: Pneumatic

S: Insulated Aluminium louvers

ROOFLIGHTS AND
LOUVERED VENTS

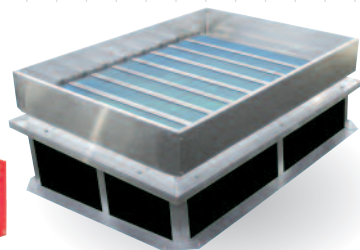


(1) In order to know the technical specification for adaptable upstand (Hexacoif lame), please feel free to contact us.
Also available with electric drive.

Sizes ⁽¹⁾			Performances		Characteristics		
References	Width (I) x Length (L)	Number of aluminium blades <i>Define the lenght L</i>	Geometric Surface in m ²	Aerodynamic Surface	Snow overcharge and linked jack		
					Ø jack in mm	Volume of jack in liter (L)	Snow over- charge SL
C 100	1031 x 1031	8	1,06	0,71	Ø = 50	0,40	SL = 500
C 110	1156 x 1156	9	1,33	0,89	Ø = 50	0,40	SL = 500
C 120	1281 x 1281	10	1,64	1,09	Ø = 50	0,40	SL = 500
C 140	1406 x 1406	11	1,97	1,31	Ø = 50	0,40	SL = 500
C 150	1531 x 1531	12	2,34	1,56	Ø = 50	0,40	SL = 500
C 160	1656 x 1656	13	2,74	1,83	Ø = 50	0,40	SL = 500
C 170	1781 x 1781	14	3,17	2,12	Ø = 50	0,40	SL = 500
C 190	1906 x 1906	15	3,63	2,43	Ø = 50	0,40	SL = 500
R 100 x 160	1000 x 1656	13	1,66	1,11	Ø = 50	0,40	SL = 500
R 100 x 210	1000 x 2156	17	2,16	1,44	Ø = 50	0,40	SL = 500
R 140 x 210	1400 x 2156	17	3,01	2,01	Ø = 50	0,40	SL = 500
R 150 x 260	1500 x 2656	21	3,98	2,66	Ø = 50	0,40	SL = 250
R 150 x 300	1500 x 3031	24	4,54	3,04	Ø = 50	0,40	SL = 250
R 200 x 300	2000 x 3031	24	6,06	4,06	Ø = 50	0,40	SL = 250

HEXASTEEL LAME TPP

Lightning, daily and smoke ventilation



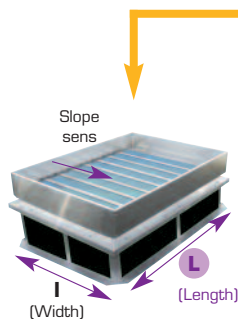
HEXASTEEL LAME TPP

is a smoke and heat ventilator (SHEV in conformity with the CE norm EN 12101-2).

T : Roof

P : Pneumatic

S : PCA louvers



(1) In order to know the technical specification for adaptable upstand (Hexacoif lame), please feel free to contact us.
Also available with electric drive.

Sizes ⁽¹⁾			Performances		Characteristics		
References	Width (I) x Length (L)	Number of PCA blades <i>Define the length L</i>	Geometric Surface in m ²	Aerodynamic Surface	Snow overcharge and linked jack		
					Ø jack in mm	Volume of jack in liter (L)	Snow over- charge SL
C 100	1006 x 1006	6	1,01	0,68	Ø = 50	0,40	SL = 500
C 110	1166 x 1166	7	1,35	0,90	Ø = 50	0,40	SL = 500
C 130	1326 x 1326	8	1,75	1,17	Ø = 50	0,40	SL = 500
C 140	1486 x 1486	9	2,20	1,47	Ø = 50	0,40	SL = 500
C 160	1646 x 1646	10	2,70	1,81	Ø = 50	0,40	SL = 500
C 180	1806 x 1806	11	3,26	2,18	Ø = 50	0,40	SL = 500
C 190	1966 x 1966	12	3,86	2,59	Ø = 50	0,40	SL = 500
R 100 x 160	1000 x 1646	10	1,64	1,10	Ø = 50	0,40	SL = 500
R 100 x 210	1000 x 2126	13	2,12	1,42	Ø = 50	0,40	SL = 500
R 140 x 210	1400 x 2126	13	2,97	1,99	Ø = 50	0,40	SL = 500
R 150 x 260	1500 x 2606	16	3,90	2,61	Ø = 50	0,40	SL = 250
R 150 x 300	1500 x 3086	19	4,62	3,10	Ø = 50	0,40	SL = 250
R 200 x 300	2000 x 3086	19	6,17	4,13	Ø = 50	0,40	SL = 250

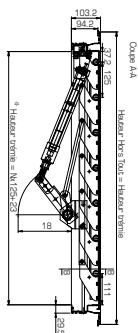


Also available with electric drive opening / closing.

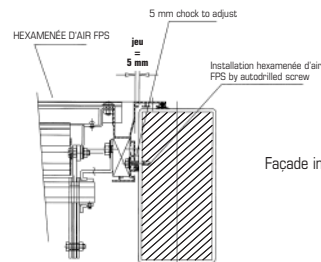
is a product with pneumatic opening / closing blades, operated by remote control, used in facade of a building in order to provide fresh air in natural or mechanical smoke ventilation configuration.

HEXAAMENÉE D'AIR FPS
is dedicated to be installed on façades with
angles **+ or - 30° to the vertical.**

HEXAAMENÉE D'AIR is a product with pneumatic opening / closing louvers, used in facade of a building in order to provide fresh air and to increase the performance of smoke vents in case of fire (sweeping). The D frame in aluminium allows to adapt this item on all building's type giving you a perfect finish.



* N = number of blades



Facade installation scheme

NOTES

FILLING AND OPTIONS

FILLINGS

Please do check into the below board the availability of filling according to your products.



		PCA	Insulated Aluminium Cover	Single skin dome or double skin dome
COMFORT	FIX	●	●	●
	AIR	●	●	●
	PASS	●	●	
	TREUIL	●	●	●
NS-HEV	MOT	●	● ⁽¹⁾	●
	MOP	●	● ⁽²⁾	●
	DOP	●	●	
	ACCESS	●	●	●

● Available product

⁽¹⁾ Not available in 120 x 160, 120 x 180 and 120 x 200

⁽²⁾ Not available in C180 et C200

FOR FURTHER INFORMATION:
www.hexadome.com

OR FREE TO CONTACT:

Export Department
 +33 388 798 493

Polycarbonate alvéolaire (PCA)

PCA 10 mm 2S (2 skins)

A PCA plate 10 mm Bs1dO (M1) cold bended.

Thermal loss coefficient: $U = 3,4 \text{ W/m}^2\text{°K}$

PCA 10 mm 4S (4 skins)

A PCA plate 10 mm Bs1dO (M1) cold bended.

Thermal loss coefficient:

$U = 2,5 \text{ W/m}^2\text{°K}$

(according to ASTM C 976/90)

PCA 16 mm 3S (3 skins)

A PCA plate 16 mm Bs1dO (M1) cold bended.

Thermal loss coefficient:

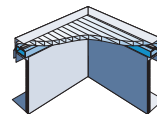
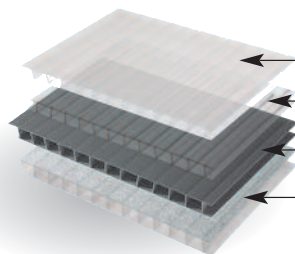
$U = 2,3 \text{ W/m}^2\text{°K}$

PCA 16 mm 6S (6 skins)

A PCA plate 16 mm Bs1dO (M1) cold bended.

Thermal loss coefficient:

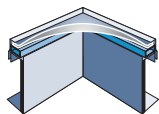
$U = 1,8 \text{ W/m}^2\text{°K}$



		LIGHT TRANSMISSION			
		PCA 10 2S	PCA 10 4S	PCA 16 3S	PCA 16 6S
SERIAL OPTION	OPAL	62 %	61 %	51 %	42 %
	TRANSPARENT	80 %	68 %	74 %	59 %
	OPAQUE	0 %	0 %	0 %	-
	COLOR CONTROL	70 %	52 %	-	46 %

Double Layer Domes

NEW



• PMMA

Fire classification: M4 or M4 Non Dropping

Thermal loss coefficient: $U = 2,8 \text{ W/m}^2\text{°K}$

Light transmission coefficient: 70 % (Up skin Opal and down skin transparent)

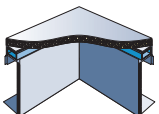
• HEXACHOC 1200 Joules Domes

Fire classification: M4 Non Dropping

Thermal loss coefficient: $U = 2,8 \text{ W/m}^2\text{°K}$

Light transmission coefficient: 70 % (Upper skin Opal and down skin transparent)

Insulated Aluminium Cover



• Insulated aluminium cover (CAI) MO.

Thermal loss coefficient: $U = 1,18 \text{ W/m}^2\text{°K}$

Light transmission coefficient: 0 %

STEEL



UPSTAND FOR PVC WATERPROOFING MEMBRANE

The upstand can be prepared in the factory in order to receive a PVC membrane either mechanically screwed or welded on the upper part of the upstand.

Thermal loss coefficient: $U = 2,5W/m^2 \text{ } ^\circ K$ or $U = 1,5W/m^2 \text{ } ^\circ K$

COIF



FLAT OF UPSTAND

The adaptable upstands range do exist with a flat of upstand (L) with different sizes.

Standard sizes: Hexacoif 6: flat of upstand $L = 60 \text{ mm}$

Hexacoif 10: flat of upstand $L = 100 \text{ mm}$

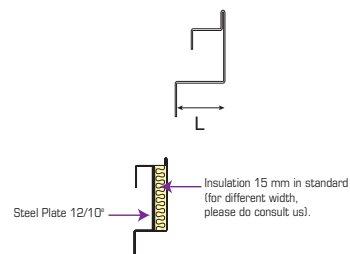
For specific sizes: Hexacoif SP: $50 \text{ mm} < \text{flat of upstand } L < 150 \text{ mm}$



UPSTAND'S INSULATION

Further your demand, an insulation of the adaptable upstand can be done.

Thermal loss coefficient: $U = 2,5W/m^2 \text{ } ^\circ K$



PAINTING



PAINTING OF THE UPSTAND (steel or coif)

A painting of the upstand is possible in following RAL colours
(for other colours please consult us).



RAL 9010
White pur



RAL 9002
White grey



RAL 7015
Grey

GRIDDLE

Griddle diameter 8 mm round tube and 143 mm spacing complies with legislation concerning the protection of personnel induced to work on roofs. It passed the dynamic 1200 joules tests with success, which certifies that the product is resistant to the shock of a 50-kg mass dropped from a height of 2.4 meters.

		Diam 8 mm round Fix griddle	Cubbic Opening griddle 15 x 15 mm	Painted griddle
COMFORT	FIX	●		●
	AIR	●		●
	PASS		●	●
	TREUIL	●		●
NSHEV	MOT	●		●
	MOP	●		●
	DOP	●		●
	ACCESS		●	●

● Available product

A painting of griddle is available in following RAL colours (for further colours, please consult us).



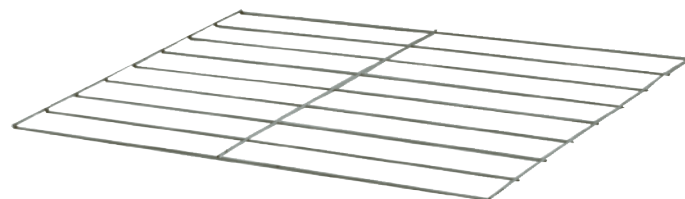
RAL 9010
White pur



RAL 9002
White grey



RAL 7015
Grey



DAILY VENTILATION WITH PARTIAL OPENING

		Electrical aeration partially opened 300 mm	Pneumatical aeration partially opened 300 mm
COMFORT	FIX		
	AIR	●	
	PASS		
	TREUIL		
NSHEV	MOT		
	MOP	●	●
	DOP*	●	
	ACCESS		

● Available product

* in all cases the opening in aeration version into the DoP range is designed for a full opening of the two pneumatic flaps.

The DoP range successfully passed the cycles test Re + 10.000.

ELECTRICAL DAILY VENTILATION WITH PARTIAL OPENING 300 mm



Jack to install on site.

PNEUMATICAL DAILY VENTILATION WITH PARTIAL OPENING 300 mm

Jack to install on site.

**THERMOFUSE**

A thermofuse installed in the factory (gauged 93 °C in standard), delivered with its cartridge CO2 that opens automatically the vent in case of elevation of temperature at the level on the roof.

** Thermofuse can be gauged too at 70 °C or 140 °C.*

**THERMICAL FUSE**

Gauged at 93 °C (in standard*) it opens automatically the vent in case of elevation of temperature increasing at the level on the roof.

** Thermofuse can be gauged too at 70 °C or 140 °C.*

**ELECTRICAL CONTACTORS**

A couple of electrical contactors of position indication can be installed in our premises: one for waiting position (closed frame) and one for safety position (opened frame). They can be linked to a central board allowing to indicate the opening position and the operation of the installation.

In case of NSHEV DOP, plan 4 contactors (2 waiting position and 2 safety position).



		Thermofuse	Thermal fuse	Electrical contactors
COMFORT	FIX			
	AIR			
	PASS			
	TREUIL			
NSHEV	MOT		●	●
	MOP	●		●
	DOP	●		●
	ACCESS*	●	●	●

* according to type (MoP, MoT, MoE)

● Available product

OPTIONS



CROSS BAR FOR ROOF ACCESS

Galvanized tube to help entry and exit of the building (delivered pre-assembled in our factory).



ADAPTATION FOR LADDER

Galvanized tube supporting any type of ladder for roof access (assembled in our premises on the unit).



		Cross bar for roof access	Adaptation for ladder
COMFORT	FIX		
	AIR		
	PASS	●	●
	TREUIL		
NSHEV	MOT		
	MOP		
	DOP		
	ACCESS	●	●

● Available product

CONTROL SYSTEMS



WINCH RANGE TL 1000

Red-painted thermoformed PVC box, equipped with a cable system allowing opening and closing of a NSHEV.

5 different versions of the HEXAPACK are available and include all the necessary elements for their installation. The HEXAPACK are modular and allow an easy adaptation of all the different modules for a flexible use.

* Our boxes are made of thermoformed PVC as a standard. For metallic boxes, please ask us.



HEXAPACKS



HEXAPACK TREUIL ELECTRIC

Name of the Pack	References	Options
HEXAPACK TREUIL MECANIC	H KIT 501 S	/
HEXAPACK TREUIL ELECTRIC	H KIT 507 S	Without battery
	H KIT 506 S	With battery
HEXAPACK TREUIL PNEUMATIC	H KIT 520 S	Without CO2 box, without copper tube
	H KIT 502 S	With CO2 box, with copper tube

HEXACLIP RANGE



The cover of the control box can be removed, allowing an easy installation. You can also choose between high or lateral copper tube connection.

Access to the firing pins is easy thanks to the reusable plastic tilt window.

Pneumatic or electric activation of the NSHEV is possible through pneumatic or electric modules installed inside the control boxes.

Red-painted metallic boxes, equipped with a system of firing pins for CO2 cartridge with flushing out, which allows the opening and closing of the NSHEV.

HEXACLIP AIR RANGE

Red-painted metallic box equipped with a system of firing pins for CO2 cartridge with possibility to connect remote control modules, allowing the opening of the NSHEV and also the control of the integrated daily ventilation block connected to the compressed air network.

Daily ventilation control buttons are accessible in frontage.

Access to the firing pins is easy thanks to the reusable plastic tilt window.



CHECK LIST

Check lists for your orders!

FOR MORE INFORMATIONS:
www.hexadome.com
 OR CONTACT:
 Philippe KNITTEL +33 388 798 489

Dimensions opening

Dimensions Top (TP) x

Dimensions Bottom (DB) x

Upstand

STEEL: Upstand for use on waterproofed roofs

☐ Membrane bitumen

☐ Membrane PVC

COIF: Upstand for use on existing adaptation

Flat of upstand ☐ Hexacoif 6
☐ Hexacoif 10
☐ Hexacoif SP [5 < x < 15]

Upstand's insulation



FUNCTION

- ☐ Hexasteel MoT
- ☐ Hexasteel MoP
- ☐ Hexasteel DoP
- ☐ Hexasteel Access
 - ☐ MoP
 - ☐ MoT
 - ☐ MoE

PERFORMANCE

- ☐ E (Eco) ☐ S (Standard) ☐ P (Plus)
- ☐ E (Eco) ☐ S (Standard) ☐ P (Plus)
- ☐ E (Eco) ☐ S (Standard) ☐ P (Plus)
- ☐ E (Eco) ☐ S (Standard) ☐ P (Plus)

FILLINGS

- ☐ PCA
 - ☐ 10 mm Opal
 - ☐ 10 mm Transparent
 - ☐ 10 mm Color control
 - ☐ 10 mm Opaque
 - ☐ Hexachoc 1.200 joules
 - ☐ PMMA Opale M4
 - ☐ PMMA Opale M4 non dropping
- ☐ Double Layer
- ☐ Insulated aluminium cover ☐ Laquage intérieur RAL:

GRIDDLE

- ☐ Fix round diam 8 mm
- ☐ Openable square (Access only)

PAINTING

- ☐ Painting of the upstand
- ☐ Griddle
 - ☐ Galvanized
 - ☐ RAL

FIRE SECURITY ACCESSORIES

- ☐ CO2 thermofuse
- ☐ Thermal fuse
- ☐ Electric contactors

OPTIONS (ACCESS ONLY)

- ☐ Cross bar for roof access
- ☐ Adaptation for ladder
- ☐ Telescopic ladder

DAILY VENTILATION

- ☐ Electric
- ☐ Pneumatic

NOTES

REGULATION

STANDARD RULES FOR CALCULATION OF SMOKE VENTILATION IN BUILDINGS

These rules are specific to each country

1) CLASSIFICATION BY BUILDING TYPES

Usually the buildings are classified in following types:

- public buildings: hypermarkets, shopping malls, airports...
- working buildings: factories, maintenance areas for vehicles...
- storage buildings,
- living buildings: multi floor housings, offices...

The smoke vent calculation rules are generally in relation to each type of buildings.

2) CALCULATION METHODS AND RULES

The smoke ventilation surface can be calculated either by considering a percentage of geometrical surface to apply on roof or façade or most commonly a free aerodynamic surface which is related to the performance of the smoke vents.

In general, the buildings are calculated in following way:

- public buildings: mini 1 % from the roof surface in free aerodynamic surface,
- working buildings: mini 1 % geometrical surface or 0,5 % active surface,
- storage buildings: between 1 and 3 % from the roof surface in free aerodynamic surface,
- living buildings: mini 1 m² over the staircases

These values are only indicative. The methods are specific to every country and need to be checked case by case.

3) AIR INLETS

In most of buildings the requirement is given that for an efficient smoke ventilation, the surface of fresh air inlets must be at minimum equivalent to the smoke ventilation surface.

NOTES



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