



THERMIK'

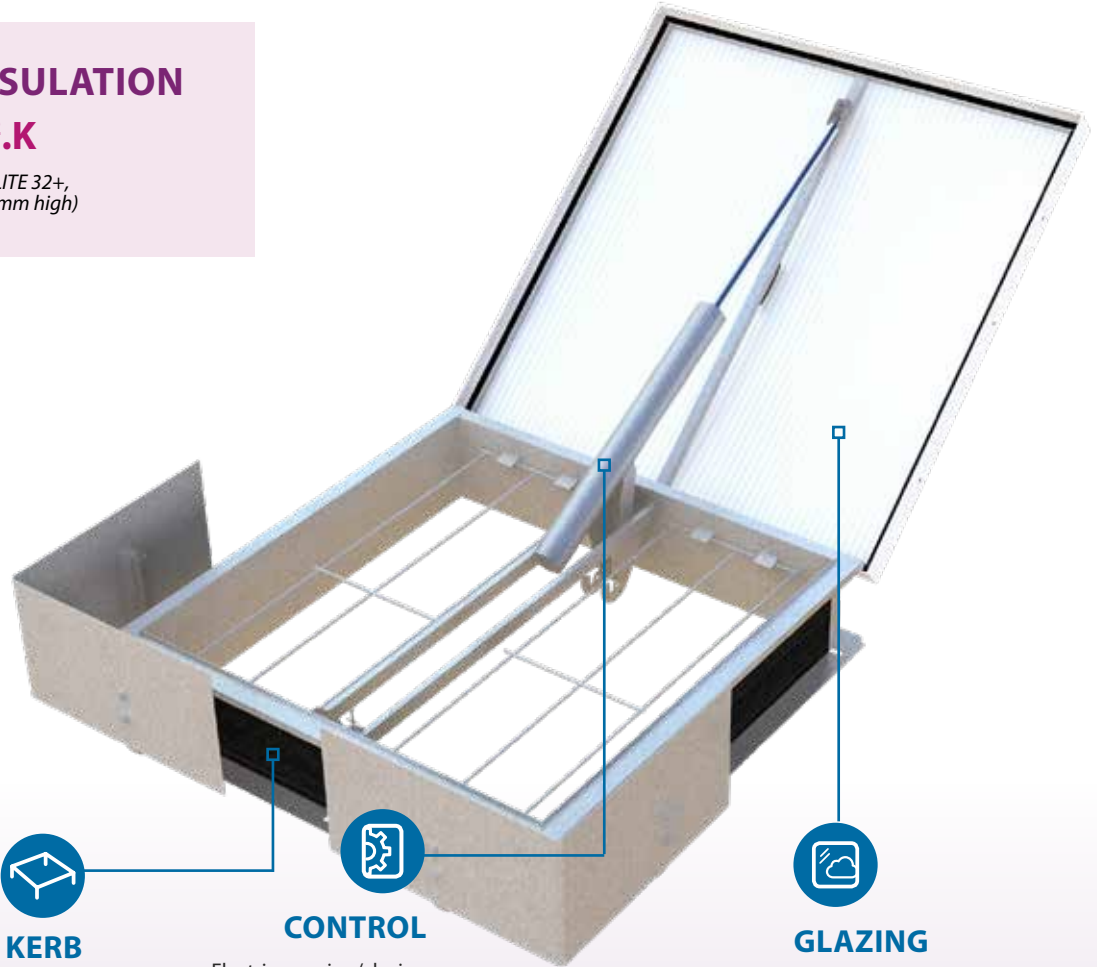
CLASSIC | CONFORT | ELITE

PYRODÔME® ÉVOLUÉLEC

OPTIMUM INSULATION

Urc: 0.9 W/m².K

(PYRODÔME ÉVOLUÉLEC ELITE 32+,
size 140 x 140 cm, kerb 410 mm high)



KERB

- Straight kerb
- 12/10th galvanised steel
- 360 mm high with 30 mm bitumen surfaced insulation





CONTROL

- Electric opening/closing
- Built-in offset mechanism for opening sizes 100 x 100 cm and 120 x 120 cm



GLAZING

- S.PC 16
- S.PC 16+ 
- S.PC 32
- S.PC 32+ 

OPTIONS

Glazing

- Opal IR S.PC 16
- Grey S.PC 16
- Transparent S.PC 16
- Insulated aluminium cover

Kerb

- Kerb 410 mm high and over
- Powder-coating on inside (standard RAL colours)
- Panel colaminated at the top for PVC sealing
- Panel galvanised at the top for PVC sealing
- Bare insulation for PVC sealing
- With (AD) or without (SD) deflectors

Control

- Position contactor

Other

- 6 mm round grid or 16 x 16 mm square tube, 1200 joules, galvanised or powder-coated in standard RAL colours
- 16 x 16 mm galvanised opening security bars
- Grey powder-coated bar to hook on ladder
- Grey powder-coated grab handle

ADAPTER PLATE P. 10



— GEOMETRICAL DIMENSIONS AND AIRFLOW PERFORMANCES

Opening dimensions A x B (cm)	Overall heel dimensions C x D (cm)	Height H* (cm)	Lighting surface area (m ²)	E (cm)	Weight (kg)	Av (m ²)	Aa (m ²)
							AD
100 x 100	118 x 118	42	1.00	165	63	1.00	0.68
120 x 120	138 x 138	42	1.44	186	76	1.44	0.93
140 x 140	158 x 158	42	1.96	207	90	1.96	1.31

Please contact us for other sizes. * For a kerb 360 mm high.

— MOTOR POWER CONSUMPTION

Dimensions (cm)	Power consumption for THERMIK' PYRODOME ÉVOLUÉLEC 120° range	
	S.PC 16 / S.PC 16+ / S.PC 32 / S.PC 32+ / 40 mm cover	
	SL250	
	Voltage (V)	Maximum electric current (amperes)
100 x 100	24 V	2.5
120 x 120	24 V	5
140 x 140	24 V	5

Centred crossbar

Offset crossbar

— MECHANISM CONTROL

We provide upgradeable installation kits for the **PYRODÔME® ÉVOLUÉLEC** and the **PYRODÔME® ÉVOLUÉLEC ADAPTER PLATE** mechanism controls. These kits are easy to install with the option to combine a basic kit with an electric satellite. See *Installation kits* technical data sheet for the full list of our kits.

— GLAZING PERFORMANCES

Other glazing: see "Glazing" technical data sheet

Types of glazing	Heat transfer coefficient Ug (W/m ² .K)		TL D65 ⁽²⁾	FS or g ⁽²⁾	Reaction to fire	R _w R _A =R _w +C R _{A,Tr} =R _w +C _{Tr} (dB) ⁽³⁾
	U _{hor} ⁽¹⁾	U _{vert} ⁽¹⁾				
S.PC	Opal multi-wall S.PC 16	2.0	1.8	54%	55%	B _s 1,d0 R _w =19 dB, R _A =19 dB R _{A,Tr} =17 dB
	S.PC 16 with transparent Lumira™ Aerogel	1.31	ND	67%	67%	B _s 1,d0 R _w =21 dB, R _A =21 dB R _{A,Tr} =19 dB
	Transparent multi-wall S.PC 32	1.4	1.25	64%	57%	B _s 1,d0 R _w =19 dB, R _A =18 dB R _{A,Tr} =18 dB
	S.PC 32 with 50% transparent Lumira™ Aerogel	0.8	ND	43%	45%	B _s 2,d0 R _w =21 dB, R _A =21 dB R _{A,Tr} =20 dB
Cover	40 mm aluminium cover	0.85	ND	0%	ND	ND 63

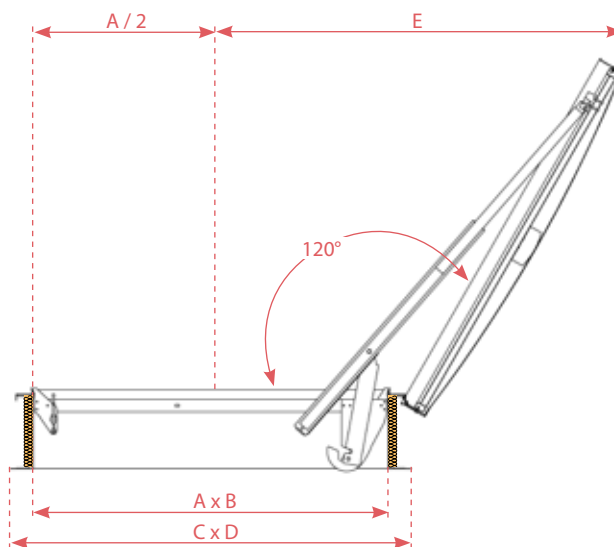
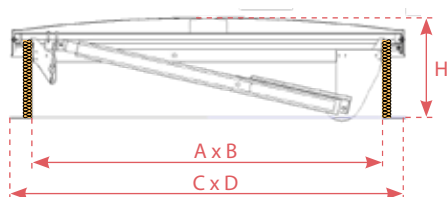
⁽¹⁾ According to §2.31 of the Th-Bat. rules.

⁽²⁾ Regular light transmission factor TL D65 and total solar transmission factor FS (TST or g) according to EN 410.

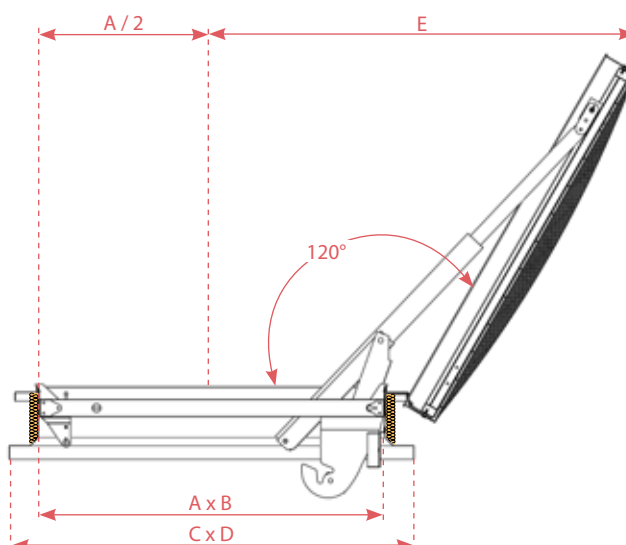
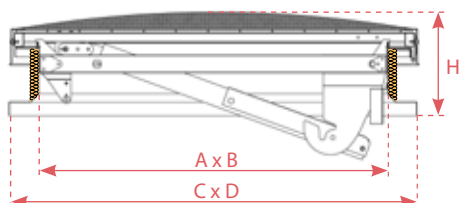
⁽³⁾ Glazing insulation to airborne noise R_w, pink noise R_A (neighbourhood, airport and industrial activities) and road noise R_{A,Tr} measured in the laboratory according to NF EN ISO 1140.

TECHNICAL DIAGRAMS

PYRODÔME® ÉVOLUÉLEC S.PC



Adapter plate PYRODÔME® ÉVOLUÉLEC S.PC



CE PERFORMANCES

Evacuation system opening: type B

Reliability: Re 1000 + Re 10000 (partial opening ventilation)

Low ambient temperature: T(-15°)

Resistance to heat: B₃₀₀

Wind load: WL1500

Opening under load: SL250 depending on the glazing

For heat triggering of the device, it must be fitted with a heat detection head (not provided in the device)

Also available in WL 3000: contact us.

CONFORMITY AND IMPLEMENTATION

CE-certified natural smoke and heat exhaust ventilator system compliant with standard **NF EN 12101-2 (product certification no. 0333 CPR 219076)**.

Fastening and sealing must comply with the requirements set out in French legislation (DTU) series 40 and 43 currently in force.

Maximum insulation height: the minimum height of the waterproofing upstand to comply with according to French legislation (DTU) is 150 mm.

The waterproofing complex (substrate, vapour barrier, insulation and two-layer sealing) cannot be more than 140 mm for an inner kerb height of 310 mm or more than 240 mm for an inner kerb height of 410 mm.

Maximum authorised slope: 25° or 46%, when the hinge axis is parallel to the roof slope and $A_v < 2 \text{ m}^2$ (see installation instructions).

Only the security bar option guarantees 1200-joule protection.

Declaration of Performance available at www.skydome.eu



NATURAL SMOKE EVACUATION
 • VENTILATION • DAYLIGHTING
 • ROOF ACCESS

SUBSTRATE:
 Watertight roof /
 Existing kerb



— COMMERCIAL NAME



	CLASSIC ★					CONFORT ★★					ELITE ★★★				
Kerb insulation	Kerb 360 mm high Insulation: • over the kerb height					Kerb 360 mm high Insulation: • over the kerb height • over the kerb frame return					Kerb 360 mm high Insulation: • over the kerb height • over the kerb frame return • between the steel frame and the aluminium frame				
Glazing	16 mm S.PC (opal S.PC)	16 mm S.PC with LUMIRA (transparent S.PC)	32 mm S.PC (transparent S.PC)	16 mm S.PC + 16 mm S.PC with LUMIRA (transparent S.PC)	40 mm aluminium cover	16 mm S.PC (opal S.PC)	16 mm S.PC with LUMIRA (transparent S.PC)	32 mm S.PC (transparent S.PC)	16 mm S.PC + 16 mm S.PC with LUMIRA (transparent S.PC)	40 mm aluminium cover	16 mm S.PC (opal S.PC)	16 mm S.PC with LUMIRA (transparent S.PC)	32 mm S.PC (transparent S.PC)	16 mm S.PC + 16 mm S.PC with LUMIRA (transparent S.PC)	40 mm aluminium cover
	Commercial name	CLASSIC 16	CLASSIC 16+	CLASSIC 32	CLASSIC 32+	CLASSIC 40 OPAQUE	CONFORT 16	CONFORT 16+	CONFORT 32	CONFORT 32+	CONFORT 40 OPAQUE	ELITE 16	ELITE 16+	ELITE 32	ELITE 32+

— AIR PERMEABILITY AND LIGHT SURFACE AREA

Opening dimensions A x B (cm)	Air flow (m ³ /h) - Class AP06 ⁽¹⁾		ELA ⁽²⁾ (m ²)	
	Under 4 Pa	Under 50 Pa	360 mm high	410 mm high
100 x 100	0.12	0.76	0.36	0.35
120 x 120	0.14	0.92	0.54	0.52
140 x 140	0.17	1.07	0.75	0.73

⁽¹⁾ Air permeability tests conducted at CSTC according to the NF EN 1873 protocols (in reference to standards NF EN 12152 and NF EN 12153).

⁽²⁾ effective lighting area (ELA) calculated with white powder-coated kerb and 16 mm structured polycarbonate.

— ACOUSTIC PERFORMANCES OF THE DEVICE

	S.PC 16	S.PC 16+	S.PC 32	S.PC 32+	Opaque 40 mm aluminium cover
Noise reduction Rw (C;Ctr) (dB)	17(-2;2)	19(0;-1)	20(-2;-1)	21(0;0)	23(-1;-3)
Intensity level generated by the rain LIA (dB)	77	74	75	72	63

Rw = noise reduction index measured in the laboratory according to EN 410 (airborne noise) - RA = Rw + C = "pink noise" reduction index - RA,tr = Rw + Ctr = "road noise" reduction index
 *The acoustic performance of the device with ACOUSTIK' LIGHT glazing is declared only for the CONFORT and ELITE ranges.

PYRODÔME® ÉVOLUÉLEC



SKYDÔME



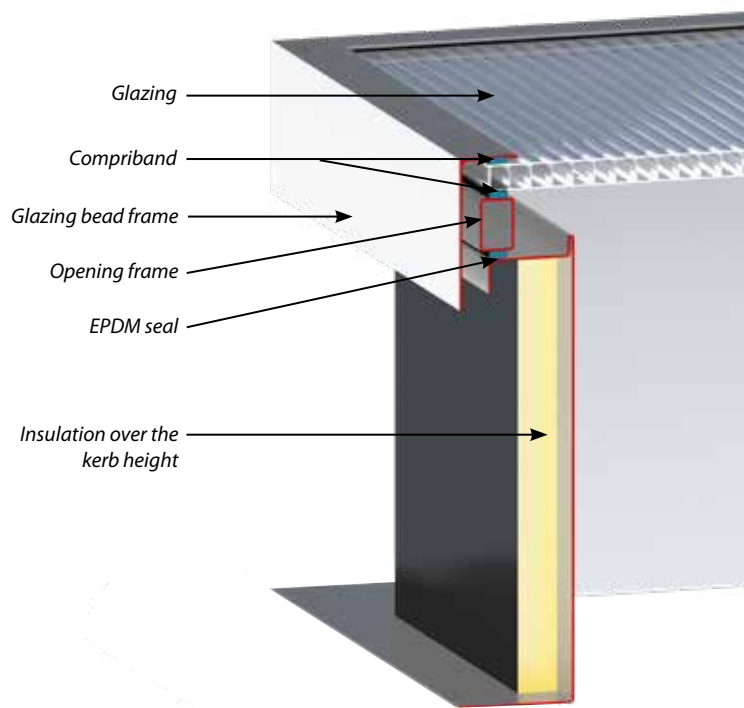


CLASSIC

IMPROVED THERMAL INSULATION

> Over the kerb height

- ✓ **WIDE CHOICE OF GLAZING** meeting the various thermal, light transmission and solar factor performances
- ✓ $U_{RC} = 1.8 \text{ W/m}^2.K^*$
- ✓ **BETTER WATERPROOFING**
- ✓ Noise reduction **FROM 17 DB**
- ✓ **COMPLIANT WITH FRENCH LEGISLATION (DTU)** currently in force



— THERMAL PERFORMANCES: U_{RC} (W/m².K) AND A_{RC} (m²)

PYRODÔME® ÉVOLUÉLEC										
Dimensions (cm)	Kerb 360 mm high					Kerb 410 mm high				
	U_{RC}				A_{RC}	U_{RC}				A_{RC}
	S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & opaque 40 mm aluminium cover		S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & opaque 40 mm aluminium cover	
100 x 100	2.4	2.1	2.2	2.0	3.1	2.3	2.0	2.1	1.9	3.3
120 x 120	2.4	2.1	2.2	2.0	3.8	2.3	2.0	2.1	1.9	4.1
140 x 140	2.3	2.0	2.1	1.9	4.7	2.2	1.9	2.0	1.8	5.0

* For a system measuring 140 x 140 cm, kerb 360 mm high, S.PC 32+ glazing



CONFORT

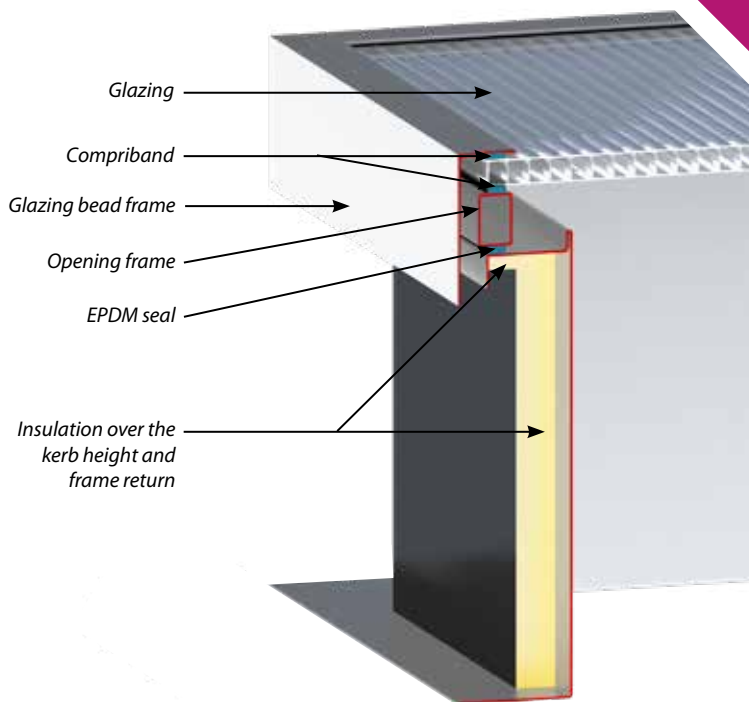
THERMAL CONDUCTANCE U_{RC} :

> 40% more efficient than the CLASSIC range

✓ WIDE RANGE OF GLAZING

✓ $U_{RC} = 1.1 \text{ W/m}^2 \cdot \text{K}^*$

✓ COMPLIANT WITH FRENCH LEGISLATION (DTU) currently in force



— THERMAL PERFORMANCES: U_{RC} (W/m².K) AND A_{RC} (m²)

PYRODÔME® ÉVOLUÉEC										
Dimensions (cm)	Kerb 360 mm high					Kerb 410 mm high				
	U_{RC}				A_{RC}	U_{RC}				A_{RC}
	S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & opaque 40 mm aluminium cover		S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & opaque 40 mm aluminium cover	
100 x 100	1.7	1.4	1.5	1.3	3.1	1.6	1.3	1.4	1.1	3.3
120 x 120	1.7	1.4	1.5	1.3	3.8	1.6	1.3	1.4	1.1	4.1
140 x 140	1.7	1.4	1.5	1.3	4.7	1.6	1.3	1.4	1.1	5.0

* For a system measuring 140 x 140 cm, kerb 410 mm high, S.PC 32 glazing



ELITE

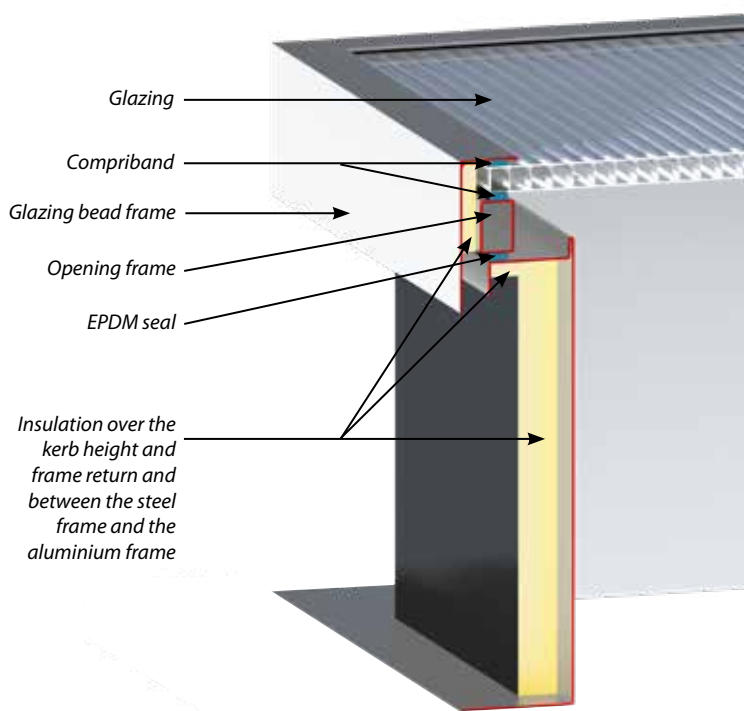
THERMAL CONDUCTANCE U_{RC} :

> 50% more efficient than the CLASSIC range

✓ WIDE RANGE OF GLAZING

✓ $U_{RC} = 0.9 \text{ W/m}^2\cdot\text{K}^*$

✓ COMPLIANT WITH FRENCH LEGISLATION (DTU) currently in force



— THERMAL PERFORMANCES: U_{RC} (W/m².K) AND A_{RC} (m²)

PYRODÔME® ÉVOLUÉLEC										
Dimensions (cm)	Kerb 360 mm high					Kerb 410 mm high				
	U_{RC}				A_{RC}	U_{RC}				A_{RC}
	S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & opaque 40 mm aluminium cover		S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & opaque 40 mm aluminium cover	
100 x 100	1.6	1.3	1.4	1.2	3.1	1.5	1.2	1.3	1.0	3.3
120 x 120	1.5	1.2	1.3	1.1	3.8	1.4	1.1	1.2	0.9	4.1
140 x 140	1.5	1.2	1.3	1.1	4.7	1.4	1.1	1.2	0.9	5.0

* For a system measuring 140 x 140 cm, kerb 410 mm high, S.PC 32+ glazing

**A CLOSER
LOOK AT ...**

THE PYRODÔME® ÉVOLUÉLEC ADAPTER PLATE FOR RENOVATION AND CONFORMITY

— GEOMETRICAL DIMENSIONS AND AIRFLOW PERFORMANCES

Opening dimensions A x B (cm)	Overall dimensions C x D (cm)	Height H* (cm)	Lighting surface area (m ²)	E (cm)	Weight (kg)	Av (m ²)	Aa (m ²)
							AD
100 x 100	117 x 117	23	1.00	165	53	1.00	0.66
120 x 120	137 x 137	23	1.44	186	64	1.44	0.90
140 x 140	157 x 157	23	1.96	207	75	1.96	1.10

Please contact us for other sizes. * For a kerb 170 mm high.

— THERMAL PERFORMANCES: U_{RC} (W/m².K) AND A_{RC} (m²)

PYRODÔME® ÉVOLUÉLEC ADAPTER PLATE - Kerb 170 mm high

Dimen- sions (cm)	CLASSIC ★					CONFORT ★★					ELITE ★★★				
	U_{RC}				A_{RC}	U_{RC}				A_{RC}	U_{RC}				A_{RC}
	S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & alum. cover (opaque)		S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & alum. cover (opaque)		S.PC 16	S.PC 16+	S.PC 32	S.PC 32+ & alum. cover (opaque)	
100 x 100	3.1	2.8	2.9	2.6	2.3	2.5	2.1	2.2	1.9	2.3	2.4	2.0	2.1	1.8	2.3
120 x 120	3.0	2.6	2.7	2.4	2.9	2.4	2.0	2.1	1.7	2.9	2.3	1.9	2.0	1.6	2.9
140 x 140	2.9	2.5	2.6	2.3	3.6	2.3	1.9	2.0	1.6	3.6	2.2	1.8	1.9	1.5	3.6



NATURAL SMOKE EVACUATION
 • VENTILATION • DAYLIGHTING
 • ROOF ACCESS

SUBSTRATE:
 Watertight roof /
 Existing kerb



PYRODÔME® ÉVOLUÉLEC

A CLOSER LOOK AT ...

THE PYRODÔME® EVOLUÉLEC ADAPTER PLATE FOR RENOVATION AND CONFORMITY

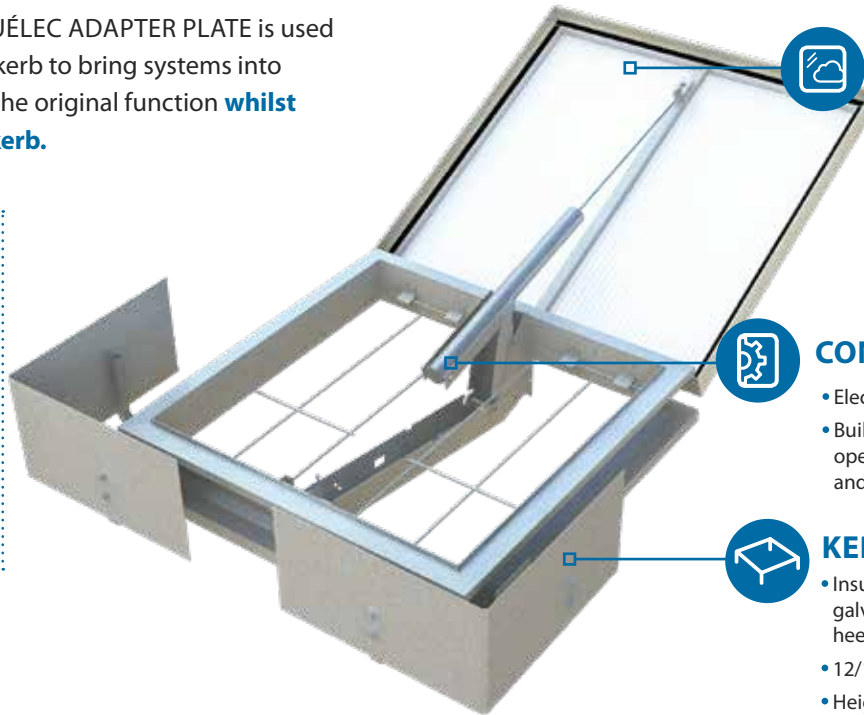
The PYRODÔME® EVOLUÉLEC ADAPTER PLATE is used to adapt to all types of kerb to bring systems into compliance or change the original function **whilst keeping the existing kerb.**

OPTIONS

List of standard options p.1

Kerb

- Heel width by request to adapt to the existing substrate
- Kerb height by request



GLAZING

- S.PC 16
- S.PC 16+ Lumira aerogel
- S.PC 32
- S.PC 32+ Lumira aerogel



CONTROL

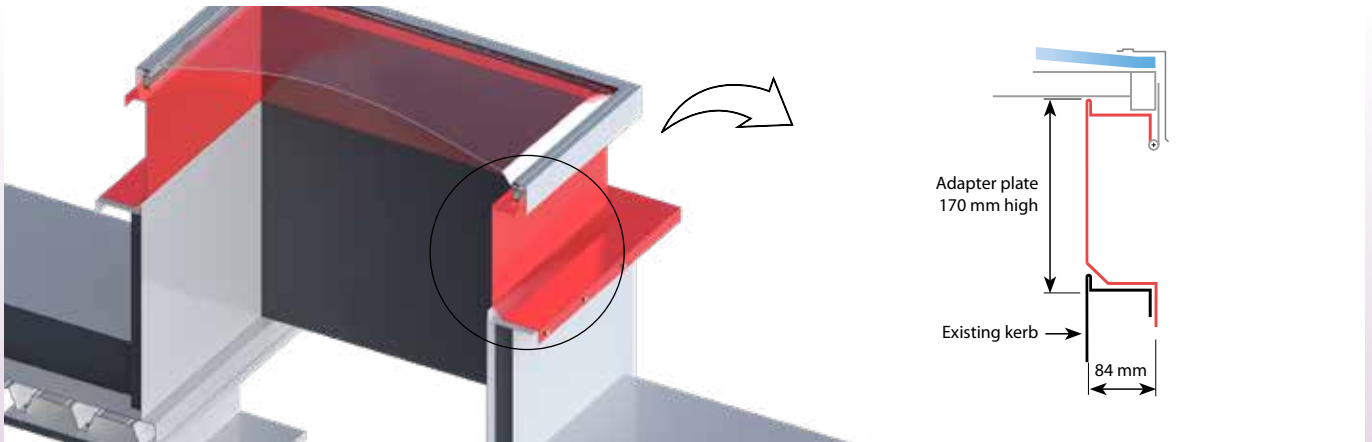
- Electric opening/closing
- Built-in offset mechanism for opening sizes 100 x 100 cm and 120 x 120 cm



KERB

- Insulated kerb with protective galvanised steel panel, 84 mm heel and 40 mm apron
- 12/10th galvanised steel
- Height 170 mm

INSTALLATION DIAGRAM



Ref: 2018.10.PYRODÔME EVOLUÉLEC THERMIK® - 10/2018 - Document is not contractual, photos are not contractual.
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