



**THERMIK'**

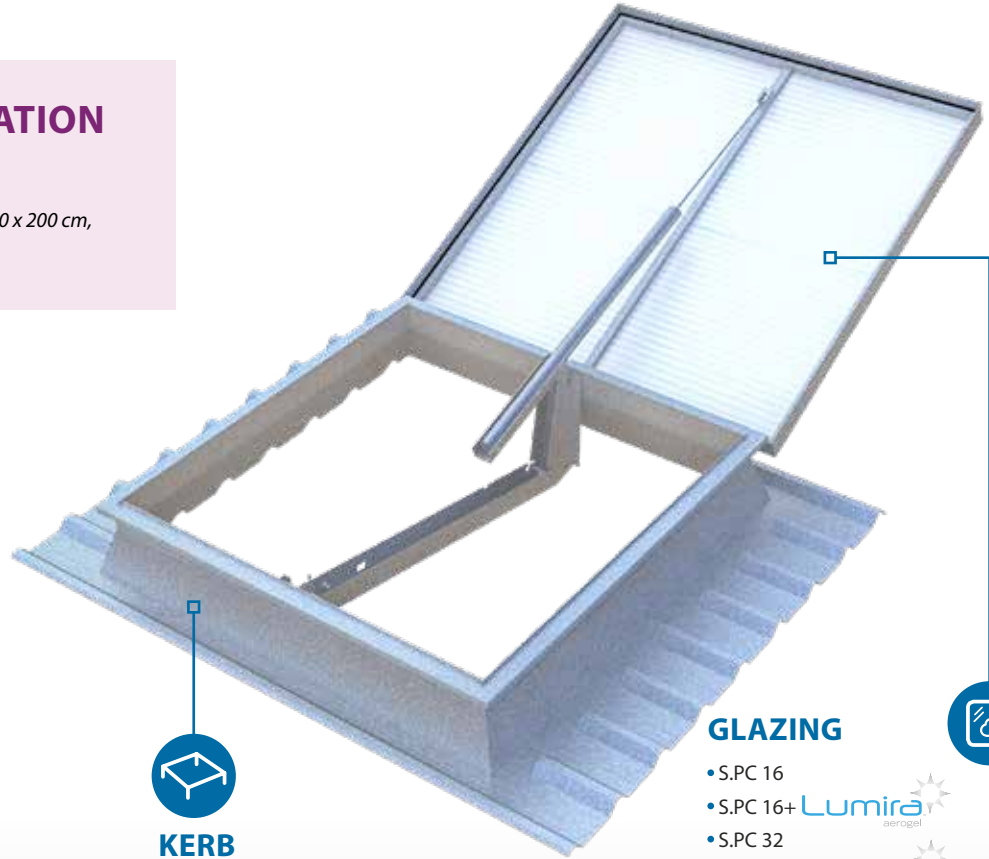
CLASSIC

# ROOFLAM<sup>®</sup> ÉVOLUPNEU

## OPTIMUM INSULATION

**Urc: 2.2 W/m<sup>2</sup>.K**

(ROOFLAM ÉVOLUPNEU 32+, size 140 x 200 cm, kerb 310 mm high)



### CONTROL

- Pneumatic opening/closing
- Built-in mechanism



### KERB

- Polyester base with canted insulated opening 310 mm high

### GLAZING

- S.PC 16
- S.PC 16+ Lumira<sup>aerogel</sup>
- S.PC 32
- S.PC 32+ Lumira<sup>aerogel</sup>
- PMMA triple dome
- Acoustik' Light 

## OPTIONS

Glazing	Kerb	Other
<ul style="list-style-type: none"> <li>• Opal IR S.PC 16</li> <li>• Grey S.PC 16</li> <li>• Transparent S.PC 16</li> <li>• Insulated aluminium cover</li> <li>• Solid PC triple dome</li> </ul>	<ul style="list-style-type: none"> <li>• Interior and exterior powder-coating (standard RAL colours)</li> </ul>	<ul style="list-style-type: none"> <li>• 6 mm round grid or 16 x 16 mm square tube, 1200 joules, galvanised or powder-coated in standard RAL colours</li> <li>• Burglar-resistant grid with anti-sawing protection (16 x 16 + R6 assembly), galvanised or powder-coated in standard RAL colours</li> <li>• Variable underside insulation thickness</li> </ul>
	Control	
	<ul style="list-style-type: none"> <li>• Position contactor</li> <li>• Heat triggering (93°C as standard)</li> </ul>	

### RAL colours on outer walls

- Standard shade

**RAL 9010\***

- RAL colours without added-value\*\*

**RAL 5008**

**RAL 7015**

**RAL 7022**

**RAL 8012**

\*Inside RAL colour in RAL 9010 only  
\*\*Other colour: contact us

AVAILABLE IN



**ACOUSTIK' LIGHT**



## — GEOMETRICAL DIMENSIONS

Opening dimensions* CA x CB (cm)	Support dimensions (cm)	Height H** (cm)		Lighting surface area (m <sup>2</sup> )	Weight *** (kg)	
		S.PC	DD		S.PC	DD
100 x 100	See base search engine on our website www.skydome.eu	37	56	1.00	83	89
120 x 120		37	59	1.44	96	106
140 x 140		37	62	1.96	109	122
150 x 150		37	64	2.25	114	130
160 x 160		37	65	2.56	121	140
100 x 150		37	56	1.50	92	102
100 x 200		39	59	2.00	116	130
120 x 200		39	59	2.40	125	141
140 x 200		39	62	2.80	135	-
120 x 250		39	59	3.00	135	-

Please contact us for other sizes. \*The dimensions of the bases have a tolerance of +/- 5 mm. \*\*For a base 310 mm high. \*\*\*Weight given for device on sheeted roof

## — GLAZING PERFORMANCES

Other glazing: see "Glazing" technical data sheet

Types of glazing	Heat transfer coefficient U <sub>g</sub> (W/m <sup>2</sup> .K)		TL D65 <sup>(2)</sup>	FS or g <sup>(2)</sup>	Reaction to fire	R <sub>w</sub> R <sub>A</sub> =R <sub>w</sub> +C R <sub>A,tr</sub> =R <sub>w</sub> +C <sub>tr</sub> (dB) <sup>(3)</sup>	LIA (dB) <sup>(4)</sup>	
	U <sub>hor</sub> <sup>(1)</sup>	U <sub>vert</sub> <sup>(1)</sup>						
S.PC	Opal multi-wall S.PC 16	2.0	1.8	54%	55%	B <sub>s</sub> 1,d0 R <sub>w</sub> =19 dB, R <sub>A</sub> =19 dB R <sub>A,tr</sub> =17 dB	77	
	S.PC 16 with transparent Lumira™ Aerogel	1.31	ND	67%	67%	B <sub>s</sub> 1,d0 R <sub>w</sub> =21 dB, R <sub>A</sub> =21 dB R <sub>A,tr</sub> =19 dB	69	
	Transparent multi-wall S.PC 32	1.4	1.25	64%	57%	B <sub>s</sub> 1,d0 R <sub>w</sub> =19 dB, R <sub>A</sub> =18 dB R <sub>A,tr</sub> =18 dB	75	
	S.PC 32 with 50% transparent Lumira™ Aerogel	0.8	ND	43%	45%	B <sub>s</sub> 2,d0 R <sub>w</sub> =21 dB, R <sub>A</sub> =21 dB R <sub>A,tr</sub> =20 dB	72	
Cover	40 mm aluminium cover	0.85	ND	0%	ND	ND	63	
Dome	Opal PMMA triple dome Opal PMMA upper dome + transp. PMMA int. dome + transp. PMMA lower dome	2.0	1.95	61%	ND	E	ND	63
	Opal solid PC triple dome Opal solid PC upper dome + transp. solid PC int. dome + transp. solid PC lower dome	2.0	1.95	61%	ND	B <sub>s</sub> 2,d0	ND	63
Acoustik' Light	Acoustik' Light Transparent S.PC 10 & transparent PCP 6	2.1	ND	54	37	ND R <sub>w</sub> =27 dB, R <sub>A</sub> =R <sub>A,tr</sub> =26 dB	66	

<sup>(1)</sup> According to §2.31 of the Th-Bat. rules.

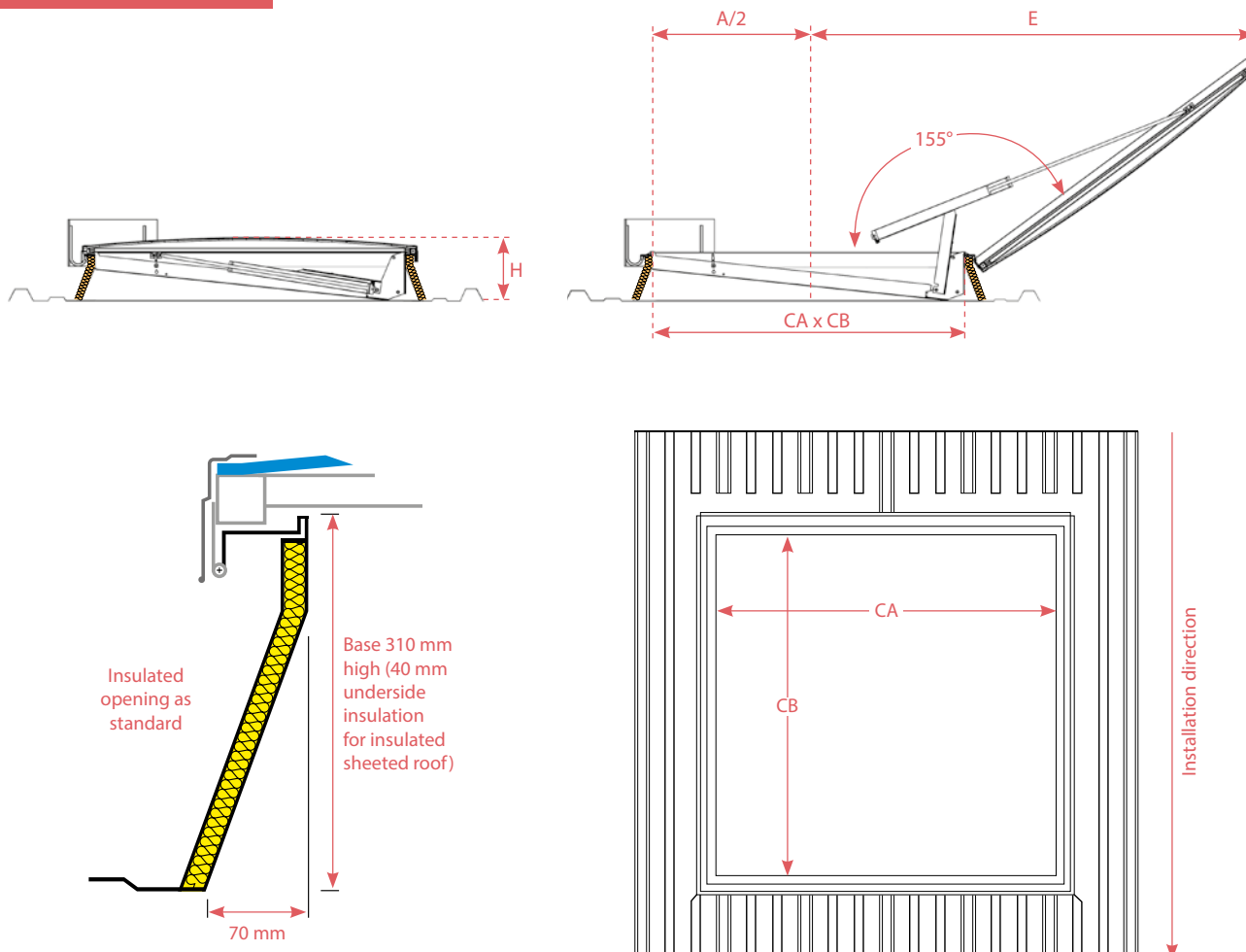
<sup>(2)</sup> Regular light transmission factor TL D65 and total solar transmission factor FS (TST or g) according to EN 410.

<sup>(3)</sup> Glazing insulation to airborne noise R<sub>w</sub>, pink noise R<sub>A</sub> (neighbourhood, airport and industrial activities) and road noise R<sub>A,Tr</sub> measured in the laboratory according to NF EN ISO 140.

<sup>(4)</sup> The system's noise reduction indexes R and sound intensity levels LIA generated by rain measured in the laboratory according to NF EN ISO 140.

## TECHNICAL DIAGRAMS

ROOFLAM® ÉVOLUPNEU S.PC



## CE PERFORMANCES

**Evacuation system opening:** type B (opening + closing)

**Reliability:** Re 1000 + 10000 (with ventilation kit)

**Low ambient temperature:** T(0°)

**Resistance to heat:** B<sub>300</sub>

**Heat triggering temperature:** 93°C to 183°C  
thermal trigger tared to 93°C mounted as standard

**Wind load:** WL1500

**Opening under load:** SL250 and SL500  
depending on the glazing and size

**Also available in WL 3000 (hurricane-proof)  
for sizes ≤ 140 x 140 cm. 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 219017)**.

Fastening and sealing must comply with the requirements set out in French legislation (DTU) series 40.35 (NF P 34-205-1).

Maximum authorised tilt when the hinge axis is parallel to the roof slope:

- When the geometric surface ( $A_v$ ) < 2 m<sup>2</sup> → 25° or 46.65%

- When the geometric surface ( $A_v$ ) > 2 m<sup>2</sup> → 20° or 36.45%

In these two cases, the hinges are positioned on the right when looking towards the roof ridge.

Maximum authorised tilt when the hinge axis is perpendicular to the roof slope is 25° or 46.65%

- When the geometric surface ( $A_v$ ) > 2 m<sup>2</sup> → 20° or 36.45%

In this case, the hinges are positioned at the bottom of the slope.

Only the security bar option guarantees 1200-joule protection.

**Declaration of Performance available at [www.skydome.eu](http://www.skydome.eu)**



• NATURAL SMOKE EVACUATION  
• DAYLIGHTING  
• VENTILATION

SUBSTRATE:  
Sheeted roof/  
Sandwich panel



## — MAXIMUM PERMISSIBLE OVERLOADS SL (Pa) AND OPERATING PRESSURES

Opening (cm)	Cylinder volume (litre)	Closing pressure (bar)	Opening pressure (bar)							
			S.PC16/S.PC16 +		S.PC32/S.PC 32+/ 40 mm cover		S.PC32 & dome		S.PC32 & dome/Triple Dome/Acoustik'Light	
			SL250	SL500	SL250	SL500	SL250	SL500	SL250	SL500
100 x 100	1.7	10	10	15	10	15	10	15	10	15
120 x 120	1.9		10	15	10	15	10	15	10	15
140 x 140	2.0		13	22	14	23	14	23	23	
150 x 150	2.0		16	27	17	28	17	28	28	
160 x 160	2.7		16	26	17	27	17	27	27	
100 x 150	1.7		10	15	10	15	15		15	
100 x 200	1.7		11	18	11	20	20		20	
120 x 200	1.9		14	24						
140 x 200	2.0		17	30						
120 x 250	1.9		17	28						

Centred crossbar

## — AIRFLOW PERFORMANCES

Dimensions (cm)	Av (m <sup>2</sup> )	Aa (m <sup>2</sup> )	
		SD	AD
100 x 100	1.30	0.70	0.87
120 x 120	1.80	0.97	1.20
140 x 140	2.37	1.27	1.60
150 x 150	2.69	1.43	1.82
160 x 160	3.03	1.61	2.05
100 x 150	1.87	1.01	1.25
100 x 200	2.44	1.32	1.64
120 x 200	2.87	1.45	1.95
140 x 200	3.30	1.68	2.24
120 x 250	3.54	1.71	2.41

\*Only valid for insulated bases ≥ 30 mm.

\*\*Effective lighting area (ELA) calculated with white powder-coated kerb and 16 mm structured polycarbonate and Urc according to standard NF EN 1873.

\*\*\*Permeability tests conducted at CSTC according to the NF EN 1873 protocols (in reference to standards NF EN 12152 and NF EN 12153).

## — AIR PERMEABILITY AND LIGHT SURFACE AREA

Opening dimensions A x B (cm)	Air flow (m <sup>3</sup> /h) - Class AP06 <sup>(1)</sup>		ELA <sup>(2)</sup> (m <sup>2</sup> )
	Under 4 Pa	Under 50 Pa	310 mm high kerb
100 x 100	0.12	0.76	0.38
120 x 120	0.14	0.91	0.56
140 x 140	0.17	1.06	0.78
150 x 150	0.18	1.14	0.91
160 x 160	0.19	1.22	1.04
100 x 150	0.15	0.95	0.59
100 x 200	0.18	1.14	0.79
120 x 200	0.19	1.22	0.97
140 x 200	0.20	1.29	1.14
120 x 250	0.22	1.41	1.22

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

<sup>(2)</sup> Effective lighting area (ELA) calculated with white powder-coated kerb and 16 mm structured polycarbonate.

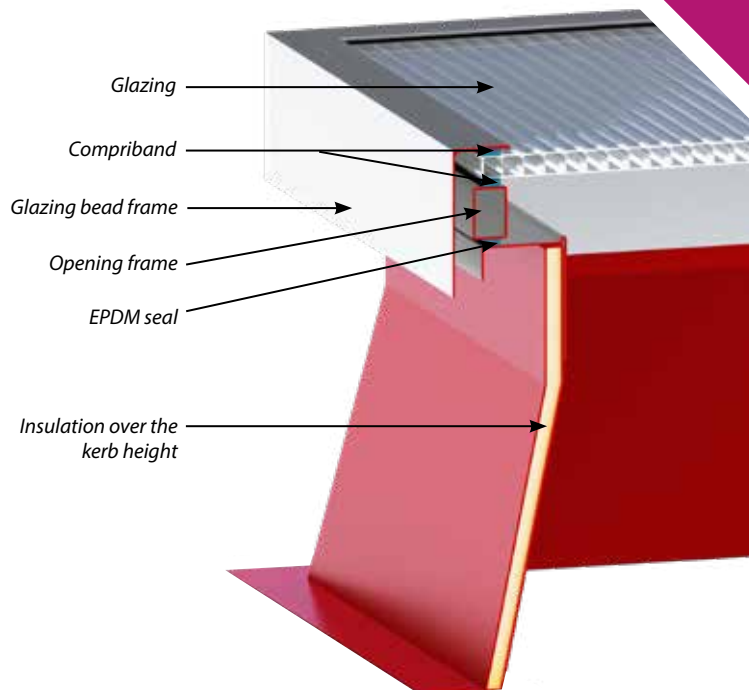


## CLASSIC

### IMPROVED THERMAL INSULATION

> Over the kerb height

- ✓ **WIDE RANGE OF GLAZING** meeting the various thermal, light transmission and solar factor performances
- ✓  $U_{RC} = 2.2 \text{ W/m}^2.K^*$
- ✓ **BETTER WATERPROOFING**
- ✓ Noise reduction **FROM 17 DB**
- ✓ **COMPLIANT WITH FRENCH LEGISLATION (DTU)** currently in force



## — THERMAL PERFORMANCES: $U_{RC}$ (W/m<sup>2</sup>.K) AND $A_{RC}$ (m<sup>2</sup>)

ROOFLAM® ÉVOLUPNEU						
Dimensions (cm)	Kerb 310 mm high					$A_{RC}$
	$U_{RC}$					
	Acoustik' Light	Triple dome & S.PC 16	S.PC 16+	S.PC 32**	S.PC 32+** & opaque 40 mm aluminium cover	
100 x 100	2.9	2.8	2.6	2.7	2.5	2.6
120 x 120	2.9	2.8	2.5	2.6	2.4	3.4
140 x 140	2.8	2.7	2.4	2.5	2.3	4.2
150 x 150	2.8	2.7	2.4	2.5	2.3	4.6
160 x 160	2.7	2.6	2.4	2.5	2.3	5.1
100 x 150	2.9	2.8	2.5	2.6	2.4	3.5
100 x 200	2.8	2.7	2.5	2.6	2.4	4.4
120 x 200	2.8	2.7	2.4	-	-	4.9
140 x 200	2.7	2.6	2.4	-	-	5.5
120 x 250	2.7	2.6	2.3	-	-	5.9

\* For a system measuring 140 x 200 cm, kerb 310 mm high, S.PC 32+ glazing.  
 \*\* Adding a dome has no impact on the thermal conductance of the Urc device.



- NATURAL SMOKE EVACUATION
- DAYLIGHTING
- VENTILATION

**SUBSTRATE:**  
Sheeted roof/  
Sandwich panel



# ROOFLAM<sup>®</sup> ÉVOLUPNEU

## — COMMERCIAL NAME



CLASSIC ★		
Kerb insulation	Kerb <b>310 mm</b> high Insulation: • <b>over the kerb height</b>	
Glazing		
CLASSIC 16	16 mm S.PC (opal S.PC)	
CLASSIC 16+	16 mm S.PC with LUMIRA (transparent S.PC)	
CLASSIC 32	32 mm S.PC (transparent S.PC)	
CLASSIC 32+	16 mm S.PC + 16 mm S.PC with LUMIRA (transparent S.PC)	
CLASSIC 3xD	<b>Triple dome</b> Opal upper dome + transparent intermediate dome + transparent lower dome	
CLASSIC 40 OPAQUE	40 mm aluminium cover	
CLASSIC ACOUSTIK' LIGHT	10 mm S.PC + solid 6 mm PC	

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