

For **DRY ROOFS OR SANDWICH PANEL ROOFS**

# ROOFLAM®

## ÉVOLUTION TREUIL



NF 537  
Actuated safety devices (DAS)  
Control devices (DC)



EN 12101-2  
EN 1873 + A1: 2016



## VERSION



### Filling

#### ORIGIN' RANGE:

- PCA 16
- PCA 16+ Lumira\*
- PCA 32
- PCA 32+ Lumira\*
- PMMA triple dome
- Acoustik' Light



### Upstand

- 310 mm high GRP base with a skewed insulated opening



### Control

- Intrinsic-energy opening
- Cable-operated closing
- Built-in mechanism

The ROOFLAM® ÉVOLUTION TREUIL is an NSHEV intended primarily for smoke and heat exhaust applications. It is suitable for use on dry roofs on all types of buildings (including public facilities, work premises and industrial buildings).



Also available:



## OPTIONS



### Types of filling

- Opal PCA 16 IR
- Grey PCA 16
- Transparent PCA 16
- PCA 10+ Lumira\*
- Insulated aluminium cover
- Solid PC triple dome



### Upstand

- Lacquered interior and exterior (standard RAL colours)

### Available versions



### Other information

- 6 mm round bar or 16x16 mm 1200 joule square tube grid, galvanised or lacquered in standard RAL
- Anti-sawing burglar-resistant grid (16x16 mm + R6 tube assembly), galvanised or lacquered in standard RAL
- Variable thickness of insulation on underside



### RAL colours on exterior surfaces

- Standard colour
- RAL colours at no extra cost\*\*

RAL 9010\*

RAL 5008

RAL 7015

RAL 7022

RAL 8012

\*\* Interior colour: RAL 9010 only

\*\* Contact us if you require a different colour

## Dimensions

Roof opening dimensions CA x CB (cm)	Roof joist dimensions* (cm)	Height H* (cm)		Light surface (m <sup>2</sup> )	E (cm)	Weight**** with security bars (kg)	
		PCA	DD			PCA	DD
<b>100 x 100</b>	Use the base search engine on the website <a href="http://www.skydome.eu">www.skydome.eu</a>	37	56	1.00	165	81	87
<b>120 x 120</b>		37	59	1.44	195	94	103
<b>140 x 140</b>		37	62	1.96	220	106	120
<b>150 x 150</b>		37	64	2.25	235	111	127
<b>160 x 160</b>		37	65	2.56	250	118	-
<b>100 x 150</b>		37	56	1.50	165	90	100
<b>100 x 200</b>		39	59	2.00	165	114	128
<b>120 x 200</b>		39	59	2.40	195	123	140
<b>140 x 200</b>		39	62	2.80	220	132	153

Contact us for other dimensions.

\* Stated base dimensions have a tolerance of +/- 5 mm.

\*\* For a base height of 310 mm.

\*\*\* Stated weight is for the product on a dry roof.

## Filling performance

Other filling and filling options: see "Filling" data sheet.

Type of filling	Thermal transmittance factor Ug (W/ m <sup>2</sup> .K)	LT D65 <sup>(2)</sup>	SF or g <sup>(2)</sup>	Reaction to fire	R <sub>w</sub> (dB) <sup>(3)</sup>	
	U <sub>hor</sub> <sup>(1)</sup>					
PCA	Opal 4-wall PCA 10	2.9	61 %	61%	B-s1-d0	R <sub>w</sub> =19 dB
	Transparent PCA 16 with Lumira™ aerogel	1.5	67%	67%	B-s1-d0	R <sub>w</sub> =21 dB
	Opal multi-wall PCA 20	1.6	54 %	47%	B-s2-d0	R <sub>w</sub> =21 dB
	Transparent multi-wall PCA 32	1.3	33%	49%	B-s2-d0	ND
	Transparent PCA 32 with Lumira™ aerogel	0.97	43%	45%	ND	ND
Cover	40 mm aluminium cover	0.85	0%	ND	ND	ND
Domes	Opal PMMA triple dome Opal PMMA upper dome + transparent PMMA interior dome + transparent PMMA lower dome	2.76	ND	ND	ND	ND
	Opal PMMA triple dome Opal solid PC upper dome + transparent solid PC interior dome + transparent solid PC lower dome	2.76	ND	ND	ND	ND
Acoustik' Light	<b>Acoustik' Light</b> Transparent PCA 10 & transparent PCA 6	2.1	ND	ND	ND	ND

<sup>(1)</sup>As per §2.31 of the Th-Bat regulations.

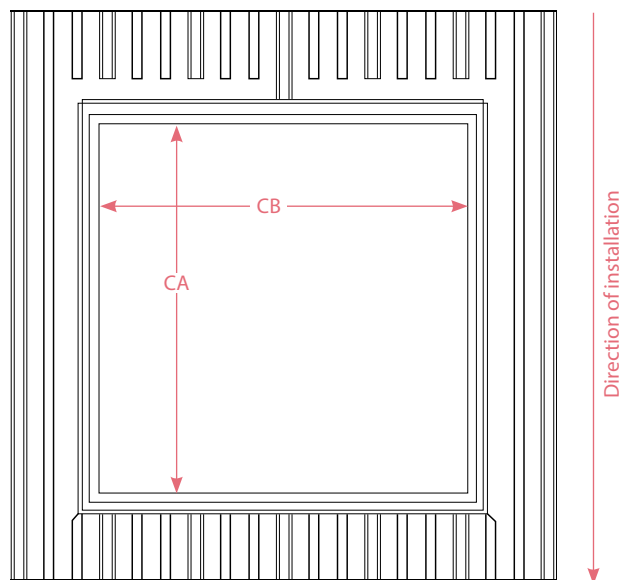
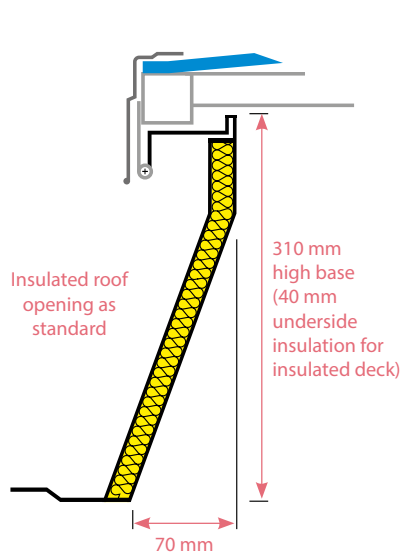
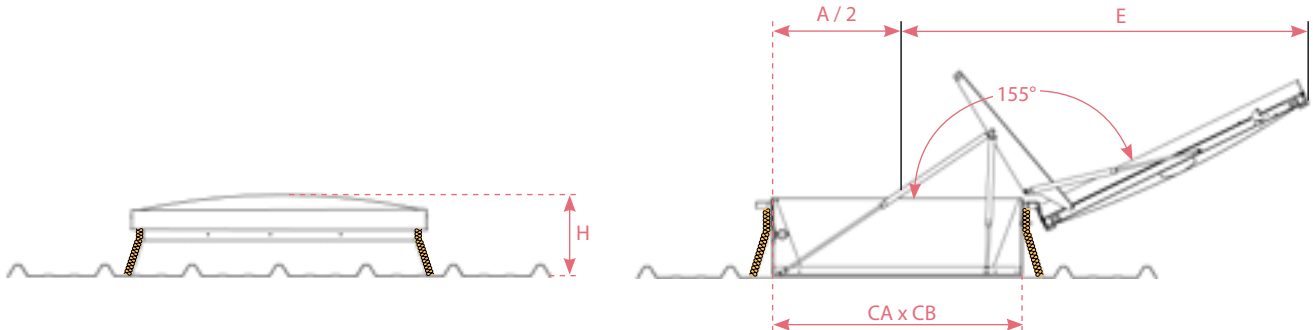
<sup>(2)</sup> Light transmittance LT D65 and total solar transmittance SF (TST or g) as per EN 410.

<sup>(3)</sup> Filling insulated against airborne noise R<sub>w</sub>, pink noise R<sub>x</sub> (environment, airport and industrial activities) and road noise R<sub>x,r</sub> laboratory-measured according to NF EN ISO 140.

Technical diagrams

THERMIK' range

ROOFLAM ÉVOLUTION TREUIL PCA



PERFORMANCE

**Exhaust ventilator opening:** type B (open + close)

**Reliability:** Re 300

**Low ambient temperature:** T(0°C)

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

**Thermo-fuse set temperature:** eutectic fuse calibrated for 93°C

**Resistance to wind load:** WL1500

**Opening under load:** SL250 or SL500 depending on filling and dimensions

Available only in 100 x 100 mm with offset mechanism.

COMPLIANCE & INSTALLATION

CE certified NSHEV compliant with **NF EN 12101-2 (product certification No. 0333 CPR 219018)**.

• The product must be fastened and sealed in accordance with the requirements defined in the applicable DTUs in series 40.35 (NF P 34-205-1).

Maximum permitted inclination with the hinge parallel to the roof slope:

- If geometric area (Av) → 25° or 46.65 %

- If geometric area (Av) → 20° or 36.45 %

In both cases, the hinges are positioned on the right, as seen when looking towards the ridge.

Maximum permitted inclination with the hinge perpendicular to the roof slope: 25° or 46.65%.

- If geometric area (Av) → 20° or 36.45 %

In this case, the hinges must be positioned nearest the bottom of the slope.

Only the security bar option provides guaranteed 1200 joule protection.

DoP available at [www.skydome.eu](http://www.skydome.eu)

## Trade name

Trade name	Filling	Upstand insulation
ROOFLAM EVOLUTION TREUIL	THERMIK' 16	16 mm PCA(Opal PCA)
	THERMIK' 16+	16 mm PCA with LUMIRA (Transparent PCA)
	THERMIK' 20	20 mm PCA (Opal PCA)
	THERMIK' 20+	20+ mm PCA with LUMIRA (Transparent PCA)
	THERMIK' 32	32 mm PCA (Transparent PCA)
	THERMIK' 32+	16 mm PCA + 16 mm PCA with LUMIRA (Transparent PCA)
	THERMIK' 3xD	Triple dome Opal upper dome + transparent interior dome + transparent lower dome
	THERMIK' 40 OPAQUE	40 mm aluminium cover
	THERMIK' ACOUSTIK' LIGHT	10 mm PCA + 6 mm solid PC

Upstand height: 310 mm  
Insulation:

- on vertical part of upstand
- on upstand lip

## Air permeability and light surface\*

Roof opening dimensions A x B (cm)	Air flow (m <sup>3</sup> /h) - Class AP06 <sup>(1)</sup>		ELS <sup>(2)</sup> (m <sup>2</sup> )
	Less than 4 Pa	Less than 50 Pa	360 mm upstand
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

<sup>(1)</sup> Air permeability tests carried out at the CSTC test centre as per NF EN 1873 protocols (with reference to the standards NF EN 12152 and NF EN 12153).

<sup>(2)</sup> Effective light surface calculated with white lacquered upstand and PCA 16 filling

\* For maximum possible performance, contact us.

## Maximum permissible snow loads SL (Pa)

Roof opening (cm)	Opening pressure							
	PCA 16 / PCA 16+		PCA 32 / PCA 32+ / 40 mm cover		PCA 32 & dome		PCA 32+ & dome / Triple dome / Acoustik' Light	
	SL 250	SL 500	SL 250	SL 500	SL 250	SL 500	SL 250	SL 500
100 x 100								
120 x 120								
140 x 140								
150 x 150								
160 x 160								
100 x 150								
100 x 200								
120 x 200								
140 x 200								

Centred crosspiece

## Aeraulic performance

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

\*Valid for 30 mm insulated bases only.

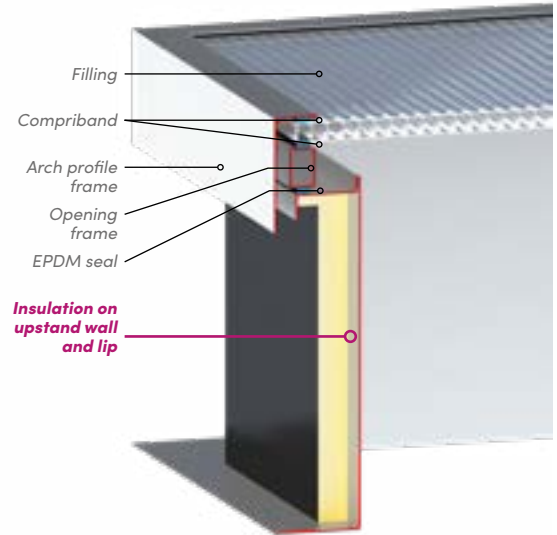
\*\*Effective light surface calculated with white lacquered upstand and PCA 16 and U<sub>ec</sub> according to NF EN 1873.

\*\*\*Air permeability tests carried out at the CSTC test centre as per NF EN 1873 protocols (with reference to the standards NF EN 12152 and NF EN 12153).

**$U_{RC} : 2.1 \text{ W/m}^2.K$**

**ENHANCED THERMAL INSULATION:**

- ✓ **Wide range of filling options** with different thermal insulation, light transmittance and solar factor performance
- ✓ **Compliant with applicable DTU specifications**
- ✓  **$U_{RC} = 2.1 \text{ W/m}^2.K^*$**



**Thermal performance:  $U_{RC}$  ( $\text{W/m}^2.K$ ) and  $A_{RC}$  ( $\text{m}^2$ )**

ROOFLAM® ÉVOLUTION TREUIL										
Dimensions (cm)	Upstand height: 310 mm									
	Acoustik' Light	$U_{RC}$						Opaque 40 mm aluminium cover	Triple dome	$A_{RC}$
		PCA 16	PCA 16+	PCA 20	PCA 32**	PCA 32+				
100 x 100	2.7	2.6	2.5	2.5	2.4	2.3	2.2	3.4	2.6	
120 x 120	2.7	2.6	2.4	2.5	2.3	2.2	2.1	3.3	3.4	
140 x 140	2.6	2.5	2.4	2.4	2.2	2.1	2	3.3	4.2	
150 x 150	2.6	2.5	2.3	2.4	2.2	2.1	2	3.3	4.6	
160 x 160	2.6	2.5	2.3	2.3	2.2	2.1	1.9	3.3	5.1	
70 x 100	2.8	2.7	2.6	2.6	2.5	2.4	2.3	3.4	3.5	
100 x 150	2.7	2.6	2.4	2.5	2.3	2.2	2.1	3.3	4.4	
100 x 200	2.6	2.5	2.3	2.4	2.2	2.1	2	3.3	4.9	
120 x 200	2.6	2.5	2.3	2.4	2.2	2.1	2	3.3	5.5	
120 x 250	2.6	2.5	2.3	2.3	2.1	2	1.9	3.3	5.9	
140 x 200	2.6	2.5	2.3	2.3	2.1	2	1.9	3.3	-	

\* Adding a dome has no effect on the unit's thermal conductivity  $U_{RC}$ .



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## **SKYDÔME**

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[www.skydome.eu](http://www.skydome.eu)

For the product range in other countries, please contact your local representative or visit [www.skydome.eu](http://www.skydome.eu).

SKYDÔME reserves the right to modify product specifications without notice. The information and technical details contained in this documentation are provided in good faith and apply to the uses described. The recommendations for use must be checked to ensure they are appropriate and comply with the actual requirements, the specifications and all applicable legislation and regulations.

For other applications and conditions of use, please contact our technical team. Their advice must be sought concerning uses of our products that are not described specifically herein.

Click this link to check that you are seeing the most up-to-date and accurate information about our products:  
[https://www.skydome.eu/fr/produit/26\\_rooflam-evolution-treuil.html](https://www.skydome.eu/fr/produit/26_rooflam-evolution-treuil.html)



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NF 537  
Actuated safety devices (DAS)  
Control devices (DC)



EN 12101-2  
EN 1873 + A1: 2016

## ÉVOLUTION TREUIL

### VERSION



#### Filling

##### ORIGIN' RANGE:

- Opal PCA 10



#### Upstand

- 310 mm high GRP base with a skewed insulated opening



#### Control

- Intrinsic-energy opening
- Cable-operated closing
- Built-in mechanism

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Also available:



## OPTIONS



#### Types of filling

- Opal PCA 10 IR
- Grey PCA 10
- Transparent PCA 10
- PCA 10+ Lumira\*
- Insulated aluminium cover
- PMMA double dome
- Solid PC double dome
- Triple dome
- Acoustik



#### Upstand

- Lacquered interior and exterior (standard RAL colours)

#### Available versions



#### Other information

- 6 mm round bar or 16x16 mm 1200 joule square tube grid, galvanised or lacquered in standard RAL
- Anti-sawing burglar-resistant grid (16x16 mm + R6 tube assembly), galvanised or lacquered in standard RAL
- Variable thickness of insulation on underside



#### RAL colours on exterior surfaces

- Standard colour
- RAL colours at no extra cost\*\*

RAL 9010\*

RAL 5008

RAL 7015

RAL 7022

RAL 8012

\*\* Interior colour: RAL 9010 only

\*\* Contact us if you require a different colour



## Dimensions

Roof opening dimensions CA x CB (cm)	Roof joist dimensions* (cm)	Height H* (cm)		Light surface (m <sup>2</sup> )	E (cm)	Weight*** with security bars (kg)	
		PCA	DD			PCA	DD
100 x 100	Use the base search engine on the website <a href="http://www.skydome.eu">www.skydome.eu</a>	37	56	1.00	165	81	87
120 x 120		37	59	1.44	195	94	103
140 x 140		37	62	1.96	220	106	120
150 x 150		37	64	2.25	235	111	127
160 x 160		37	65	2.56	250	118	-
100 x 150		37	56	1.50	165	90	100
100 x 200		39	59	2.00	165	114	128
120 x 200		39	59	2.40	195	123	140
140 x 200		39	62	2.80	220	132	153

Contact us for other dimensions.

\* Stated base dimensions have a tolerance of +/- 5 mm.

\*\* For a base height of 310 mm.

\*\*\* Stated weight is for the product on a dry roof.

## Filling performance

Other filling and filling options: see "Filling" data sheet.

Type of filling	Thermal transmittance factor Ug (W/ m <sup>2</sup> .K)	LT D65 <sup>(2)</sup>	SF or g <sup>(2)</sup>	Reaction to fire	R <sub>w</sub> (dB) <sup>(3)</sup>	
	U <sub>hor</sub> <sup>(1)</sup>					
PCA	Opal 4-wall PCA 10	2.9	61%	61%	B-s1-d0	R <sub>w</sub> =19 dB
	Transparent PCA 10 with Lumira™ aerogel	ND	ND	ND	ND	ND
Cover	40 mm aluminium cover	0.85	0%	ND	ND	ND
Dome	Opal PMMA double dome Opal PMMA upper dome + transparent solid PC lower dome	2.89	84%	ND	ND	ND

<sup>(1)</sup>As per §2.31 of the Th-Bat regulations.

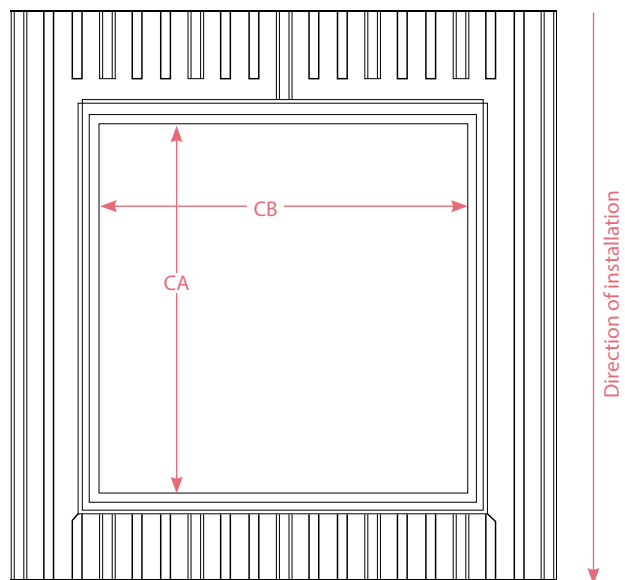
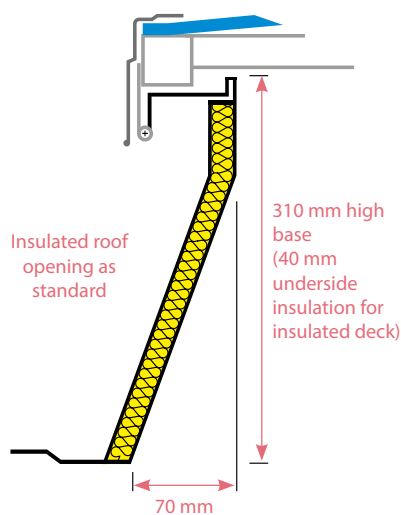
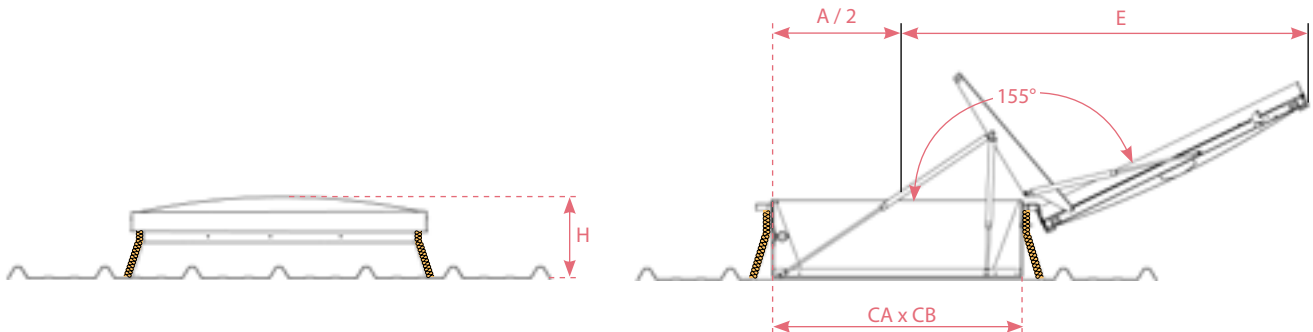
<sup>(2)</sup> Light transmittance LT D65 and total solar transmittance SF (TST or g) as per EN 410.

<sup>(3)</sup> Filling insulated against airborne noise R<sub>w</sub>, pink noise R<sub>p</sub> (environment, airport and industrial activities) and road noise R<sub>rn</sub>, laboratory-measured according to NF EN ISO 140.

Technical diagrams

ORIGIN' range

ROOFLAM ÉVOLUTION TREUIL PCA



PERFORMANCE

**Exhaust ventilator opening:** type B (open + close)

**Reliability:** Re 300

**Low ambient temperature:** T(0°C)

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

**Thermo-fuse set temperature:** eutectic fuse calibrated for 93°C

**Resistance to wind load:** WL1500

**Opening under load:** SL250 or SL500 depending on filling and dimensions

Available only in 100 x 100 mm with offset mechanism.

COMPLIANCE & INSTALLATION

CE certified NSHEV compliant with **NF EN 12101-2 (product certification No. 0333 CPR 219018)**.

• The product must be fastened and sealed in accordance with the requirements defined in the applicable DTUs in series 40.35 (NF P 34-205-1).

Maximum permitted inclination with the hinge parallel to the roof slope:

- If geometric area (Av) → 25° or 46.65 %

- If geometric area (Av) → 20° or 36.45 %

In both cases, the hinges are positioned on the right, as seen when looking towards the ridge.

Maximum permitted inclination with the hinge perpendicular to the roof slope: 25° or 46.65%.

- If geometric area (Av) → 20° or 36.45 %

In this case, the hinges must be positioned nearest the bottom of the slope.

Only the security bar option provides guaranteed 1200 joule protection.

**DoP available at [www.skydome.eu](http://www.skydome.eu)**

## Maximum permissible snow loads SL (Pa)

Dimensions (cm)	10 et 16 mm PCA		Double dome		Aluminium cover	
	SL250	SL500	SL250	SL500	SL250	SL500
100 x 100	✓	✓	✓	✓	✓	✓
120 x 120	✓	✓	✓		✓	
140 x 140	✓		✓		✓	
150 x 150	✓		✓		✓	
160 x 160	✓					
100 x 150	✓		✓		✓	
100 x 200	✓		✓		✓	
120 x 200	✓		✓		✓	
140 x 200	✓		✓		✓	

✓: Available

## Aeraulic performance

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

\*Valid for 30 mm insulated bases only.

\*\*Effective light surface calculated with white lacquered upstand and PCA 16 and U<sub>ec</sub> according to NF EN 1873.

\*\*\*Air permeability tests carried out at the CSTC test centre as per NF EN 1873 protocols (with reference to the standards NF EN 12152 and NF EN 12153).





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For other applications and conditions of use, please contact our technical team. Their advice must be sought concerning uses of our products that are not described specifically herein.

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[https://www.skydome.eu/fr/produit/26\\_rooflam-evolution-treuil.html](https://www.skydome.eu/fr/produit/26_rooflam-evolution-treuil.html)

