For **FAÇADE**

SKYBAIE®

électrique

THERMIK' **VERSION**

THE ADVANTAGES

COMPLETE SOLUTION
Supplied as standard with 3 ml mini electronic cable and junction box

POSSIBILITY OF UNLOCKING THE APPLIANCE MANUALLY
For maintenance or in the event of a power supply failure

TOTAL DISCRETION WITH INTEGRATED CHAIN BOX
(24 volts): can be used for smoke extraction and daily ventilation

The SKYBAIE Electric is a thermal break smoke ventilation façade frame. It provides natural smoke extraction, comfort ventilation and air supply for all types of building (ERP, ERT, industrial buildings). Different installations are possible: surface-mounted installation, tunnel installation, renovation installation, installation integrated into a curtain wall, between frames, with a transom and/or a spandrel.

OPTIONS AND FINISHING

Options
- Standby or safety position switches (certified option)
- Possibility of two-tone colouring: please contact us
- Special glazing on request: burglar-proof, solar control, screen-printed, treated, acoustic, etc.

Finishing
- Painted in standard RAL colours
- Anodised in standard RAL colours
- Qualicoat / Qualimarine label

SIZE RANGE

Control
- Max: 1600 x 1600 mm and 2400 x 1200 mm
- Weight: 70 kg maximum (including opening panel)

TYPE AND OPENING ANGLE

- Opening type: external flap
- Opening angle: 60° max. between 30° and 60° depending on size
- Maximum tilt: 0° from vertical between 20° and 36° for air inlet

Opening angle

For a constant cylinder stroke, the opening angle of the SKYBAIE varies according to the dimensions.
The opening angles below are calculated for a maximum sash weight of 70kg.

		Width (mm)																
		800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Opening angle																		
Stroke 600 mm	Height(mm) 700	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°
	800	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°
	900	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°
	1000	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°
	1100	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°
Stroke 800 mm	1200	/	/	/	/	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°
	1300	/	/	/	/	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	40°	/	/
	1400	/	/	/	/	40°	40°	40°	40°	40°	40°	40°	40°	40°	/	/	/	/
	1500	/	/	/	/	30°	30°	30°	30°	30°	30°	30°	/	/	/	/	/	/
	1600	/	/	/	/	30°	30°	30°	30°	30°	/	/	/	/	/	/	/	/
Air supply opening angle*																		
Stroke 400 mm	Height (mm) 700	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	800	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
	900	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
	1000	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	1100	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	1200	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

*As the cylinder stroke is 400mm when the air supply is used, the opening angle of the SKYBAIE varies according to the dimensions.

Thermal and acoustic performance

Type of filling	Light transmission TL* (%)	Sun factor g* (%)	Filling weight (Kg/m²)	Heat transfer from filling Ug (W-m².K)	Acoustic attenuation of the filling R_w (C;C_{tr})*	Chassis sound attenuation R_w (C;C_{tr})
33.2 - 16 (Air) - 4	81	72	26	2.7	Rw = 35(-1;-5) dB RA,tr = 30 dB	Rw=36(-4;-8)
44.2 - 16 (Air) - 4	81	71	31	2.7	Rw = 37(-2;-6) dB RA,tr = 31 dB	Rw=36(-2;-6)
44.2 - 16 (Air) - 6	80	70	36	2.7	Rw = 37(-1;-3) dB RA,tr = 34 dB	Rw=36(-2;-6)
33.2 FE - 16 (Argon 90%) - 4	81	56	26	1.1	Rw = 35(-1;-5) dB RA,tr = 30 dB	Rw=36(-4;-8)
44.2 FE - 16 (Argon 90%) - 4	80	55	31	1.1	Rw = 37(-2;-6) dB RA,tr = 31 dB	Rw=36(-2;-6)
44.2 FE - 16 (Argon 90%) - 6	80	47	36	1.1	Rw = 37(-1;-3) dB RA,tr = 34 dB	Rw=36(-2;-6)
44.2 FE 1.0 - 16 (Argon 90%) - 6	75	36	36	1.0	Rw = 37(-1;-3) dB RA,tr = 34 dB	Rw=36(-2;-6)
44.2 CS 70/40 - 16 (Argon 90%) - 6	69	47	36	1.0	Rw = 37(-1;-3) dB RA,tr = 34 dB	Rw=36(-2;-6)
44.2 Ac. FE 1.0 - 20 (Argon 90%) - 66.2AC.	73	45	52	1.0	Rw = 49(-2;-8) dB RA,tr = 41 dB	Rw = 43(-1;-2) dB RA,tr = 41 dB
66.2 Ac. FE 1.0 - 16 (Argon 90%) - 66.2AC.	71	-	62	1.0	Rw = 51(-2;-6) dB RA,tr = 45 dB	Rw = 44(-1;-3) dB RA,tr = 41 dB
SKYDÔME panel	-	-	50	1.35	-	Rw = 41(0;-2) dB RA,tr = 39 dB
SKYDÔME panel + integrated heavy mass	-	-	50	1.35	-	Rw = 42(-1;-2) dB RA,tr = 40 dB

Calculated open area* (m_2) et SUE (m_2)

Values depending on the opening angle of each device

		Width (mm)																
		800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Surface libre calculée* (m^2)																		
Stroke 600 mm	Height (mm) 700	0.23	0.26	0.28	0.31	0.33	0.35	0.38	0.4	0.43	0.45	0.48	0.5	0.52	0.55	0.57	0.6	0.63
	800	0.40	0.46	0.52	0.59	0.65	0.71	0.77	0.84	0.89	0.93	0.98	1.03	1.08	1.13	1.17	1.22	1.27
	900	0.46	0.53	0.61	0.68	0.75	0.80	0.84	0.89	0.93	0.98	1.02	1.07	1.12	1.17	1.21	1.26	1.31
	1000	0.52	0.61	0.69	0.77	0.85	0.94	1	0.05	1.1	1.16	1.21	1.27	1.32	1.37	1.42	1.48	1.53
	1100	0.59	0.68	0.76	0.81	0.85	0.9	0.95	1	1.04	1.09	1.13	1.18	1.23	1.27	1.32	1.37	1.41
	1200	0.65	0.75	0.85	0.94	0.99	1.04	1.09	1.14	1.2	1.25	1.3	1.35	1.4	1.45	1.51	1.56	1.61
Stroke 800 mm	1200	/	/	/	/	1.06	1.16	1.27	1.37	1.47	1.54	1.6	1.67	1.73	1.8	1.87	1.93	2
	1300	/	/	/	/	1.16	1.28	1.39	1.50	1.62	1.73	1.82	1.89	1.96	2.03	2.1	/	/
	1400	/	/	/	/	1.27	1.39	1.51	1.64	1.76	1.88	2.00	2.11	2.2	/	/	/	/
	1500	/	/	/	/	1.37	1.50	1.64	1.77	1.90	2.03	2.17	/	/	/	/	/	/
	1600	/	/	/	/	1.47	1.62	1.76	1.90	2.04	/	/	/	/	/	/	/	/
Aa (m^2)																		
Stroke 600 mm	Height (mm) 700	0.23	0.26	0.28	0.31	0.33	0.35	0.38	0.40	0.43	0.45	0.48	0.50	0.52	0.55	0.57	0.60	0.63
	800	0.26	0.29	0.32	0.35	0.37	0.39	0.42	0.44	0.46	0.48	0.51	0.54	0.58	0.61	0.64	0.62	0.65
	900	0.27	0.3	0.33	0.36	0.38	0.41	0.45	0.49	0.48	0.5	0.52	0.54	0.56	0.59	0.61	0.64	0.65
	1000	0.29	0.33	0.38	0.41	0.44	0.47	0.51	0.55	0.55	0.57	0.6	0.62	0.64	0.66	0.69	0.71	0.74
	1100	0.27	0.31	0.36	0.39	0.42	0.45	0.48	0.51	0.52	0.54	0.56	0.58	0.6	0.63	0.64	0.65	0.68
	1200	0.29	0.33	0.38	0.42	0.43	0.49	0.52	0.56	0.59	0.61	0.64	0.66	0.68	0.7	0.71	0.75	0.76
	1200	/	/	/	/	0.54	0.58	0.63	0.68	0.74	0.72	0.76	0.78	0.81	0.83	0.86	0.9	0.92
	1300	/	/	/	/	0.58	0.64	0.69	0.75	0.81	0.78	0.81	0.84	0.87	0.89	0.94	/	/
	1400	/	/	/	/	0.63	0.69	0.76	0.82	0.88	0.85	0.88	0.91	0.95	/	/	/	/
	1500	/	/	/	/	0.56	0.6	0.65	0.71	0.74	0.77	0.78	/	/	/	/	/	/
	1600	/	/	/	/	0.59	0.63	0.69	0.74	0.8	/	/	/	/	/	/	/	/

*As the cylinder stroke is 40mm when the air supply is used, the opening angle of the SKYBAIE varies according to the dimensions.

PERFORMANCES AND CLASSIFICATION

Operation : type B (open + close)
Useful surface : Aa
Aeraulic coefficient : 0.5 ≤ Cv ≤ 0.88
Heat resistance : B300
Reliability : Re 1000 + Le 10000
Static wind resistance : WL 1500
Low temperature : T (00)
AEV rating : A*2 - E*9A - V*C2

CERTIFICAT CE ET NF

- The SKYBAIE opening systems comply with CE standards in accordance with EN 12101-2-2003.
- CE certification no.: **0333-CPR-219087**
- For NF in accordance with standard NF S 61937-1 (December 2003) & NF S 61937-7 (October 2010)
- NF Certification N°: **07/09.09**
- Report on the suitability for use of natural air supply mechanisms in facades in accordance with NF S 61937-1 (December 2003) & NF S 61937-8 (July 2018)
- PV Reference : **EFR-22-005093**

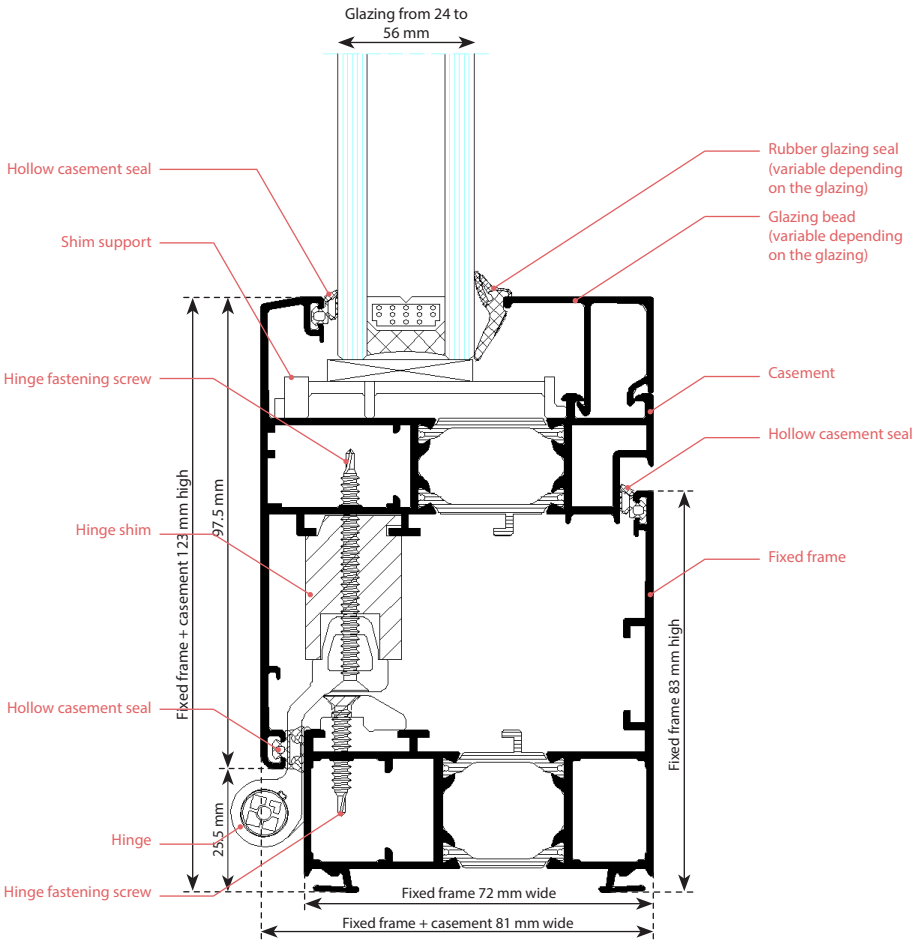
Electric characteristics

Voltage	Intensité	Power	insulation class	protection rating	Cables
24 VCc	1A	24W	III	IP 42	Type SC 500 HDTR

If L > 1600 mm, the SKYBAIE is equipped with two chain boxes. The current is therefore 2 A and the power of 48 W.

Profile

Profile geometry



technical details

Chain case

MADE IN FRANCE

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SKYDÔME®