

For FAÇADE

# SKYBAIE®

O.S. Électrique

 **VERSION**

## THE ADVANTAGES

### MAINTENANCE-OPTIMISED SYSTEM

Lock can be opened manually / mechanism parts easily interchangeable

INVISIBLE MECHANISM IN CLOSED POSITION  
(integrated lock)

The SKYBAIE Opening Only with electric release is a thermal break smoke ventilation façade frame. This DENFC provides natural smoke extraction and air supply functions 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 FINITION

### 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
- Minimum: 800 x 700 mm
- Weight: 70 kg maximum (including opening panel)

## TYPE AND OPENING ANGLE

- Opening type: external flap
- Opening angle: 60° max
- Maximum tilt: 5° from vertical

## Trigger characteristics

- The electrical release is made up of one or two lock units (depending on the size of the chassis).
- Four types of release are possible:
  - 24 Vdc, 3W emission release
  - Transmission release 48 Vdc, 3W
  - 24 Vdc break tripping, 1.2W
  - 48 Vdc break trip, 1.2W

## Thermal and acoustic performance

Type of filling	Light transmission TL* (%)	Sun factor g* (%)	Filling weight (Kg/m <sup>2</sup> )	Heat transfer from filling Ug (W-m <sup>2</sup> .K)	Acoustic attenuation of the filling R <sub>w</sub> (C;C <sub>r</sub> )*	Chassis sound attenuation R <sub>w</sub> (C;C <sub>r</sub> )
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

## Open area (m<sup>2</sup>) and SUE (m<sup>2</sup>)

Values for a 60° angle

		Width (mm)																	
		700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
		<b>Free surface (m<sub>2</sub>)</b>																	
Height (mm)	700	0.28	0.33	0.39	0.44	0.49	0.55	0.60	0.65	0.70	0.76	0.81	0.86	0.92	0.96	1.00	1.05	1.10	1.15
	800	0.33	0.40	0.46	0.52	0.59	0.65	0.71	0.77	0.84	0.90	0.96	1.03	1.09	1.15	1.22	1.28	1.33	1.39
	900	0.39	0.46	0.53	0.61	0.68	0.75	0.82	0.90	0.97	1.04	1.12	1.19	1.26	1.34	1.41	1.48	1.55	1.63
	1000	0.44	0.52	0.61	0.69	0.77	0.85	0.94	1.02	1.10	1.19	1.27	1.35	1.44	1.52	1.60	1.68	1.77	1.85
	1100	0.49	0.59	0.68	0.77	0.86	0.96	1.05	1.14	1.24	1.33	1.42	1.52	1.61	1.70	1.79	1.89	1.98	2.07
	1200	0.55	0.65	0.75	0.85	0.96	1.06	1.16	1.27	1.37	1.47	1.58	1.68	1.78	1.88	1.99	2.09	2.19	2.30
	1300	0.60	0.71	0.82	0.94	1.05	1.16	1.28	1.39	1.50	1.62	1.73	1.84	1.95	2.07	2.18	2.29		
	1400	0.65	0.77	0.9	1.02	1.14	1.27	1.39	1.51	1.64	1.76	1.88	2.00	2.13					
	1500	0.70	0.84	0.97	1.10	1.24	1.37	1.50	1.64	1.77	1.90	2.03	2.17						
	1600	0.76	0.90	1.04	1.19	1.33	1.47	1.62	1.76	1.90	2.04								
		<b>Aa (m<sub>2</sub>)</b>																	
Height (mm)	700	0.20	0.23	0.25	0.28	0.30	0.33	0.35	0.38	0.40	0.42	0.45	0.47	0.50	0.52	0.54	0.57	0.59	0.62
	800	0.23	0.26	0.30	0.33	0.36	0.40	0.41	0.44	0.47	0.50	0.52	0.55	0.58	0.61	0.63	0.66	0.69	0.72
	900	0.25	0.3	0.34	0.38	0.41	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.70	0.73	0.76	0.79	0.82
	1000	0.28	0.33	0.38	0.42	0.47	0.51	0.55	0.58	0.62	0.65	0.69	0.72	0.75	0.79	0.82	0.86	0.89	0.92
	1100	0.30	0.36	0.42	0.47	0.52	0.56	0.61	0.66	0.70	0.73	0.77	0.81	0.85	0.88	0.92	0.96	0.99	1.03
	1200	0.32	0.38	0.45	0.51	0.56	0.62	0.67	0.72	0.77	0.82	0.86	0.90	0.94	0.98	1.02	1.06	1.10	1.14
	1300	0.35	0.42	0.48	0.55	0.61	0.67	0.73	0.79	0.84	0.89	0.93	0.97	1.01	1.07	1.11	1.14		
	1400	0.37	0.44	0.51	0.59	0.66	0.72	0.79	0.85	0.91	0.91	0.97	1.01	1.06	1.10	1.14			
	1500	0.40	0.47	0.54	0.61	0.70	0.78	0.84	0.91	0.98	1.04	1.09	1.14						
	1600	0.43	0.50	0.57	0.65	0.74	0.82	0.90	0.96	1.04	1.12								

### PERFORMANCES AND CLASSIFICATION

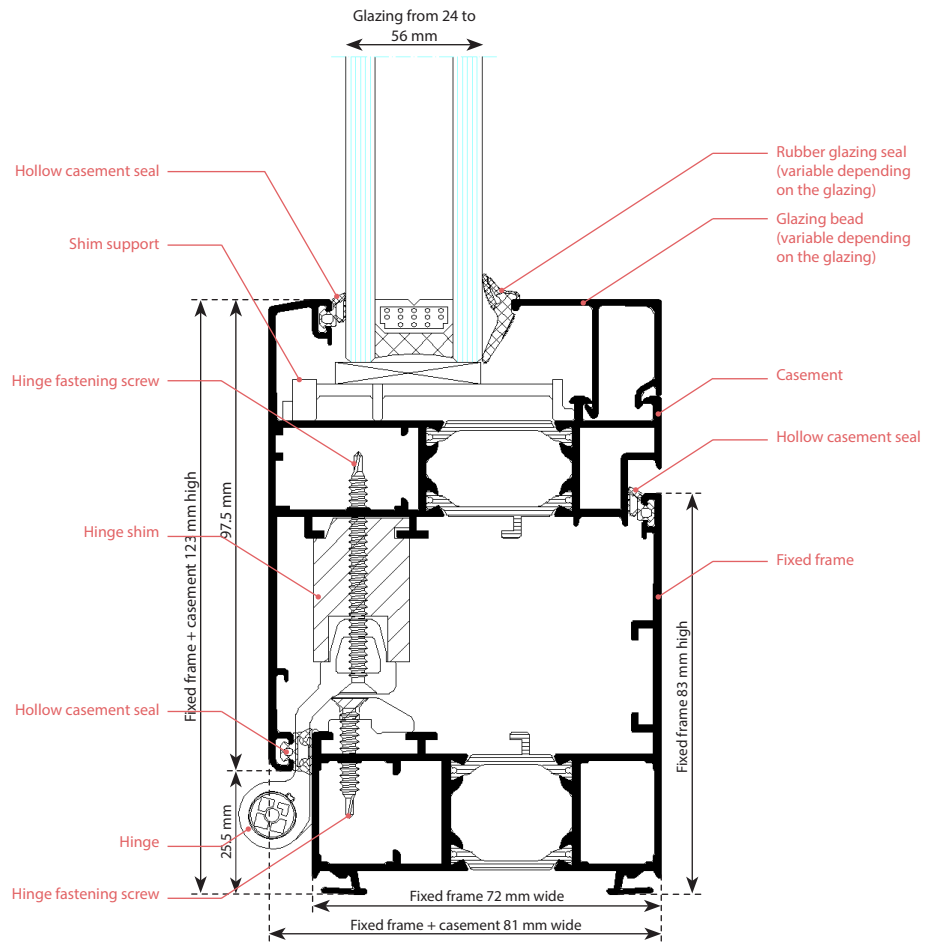
**Operation** : type A (opening only)  
**Useful surface** : Aa  
**Aeraulic coefficient** :  $0.5 \leq C_v \leq 0.88$   
**Heat resistance** : B300  
**Reliability** : Re 1000 + Le 10000  
**Static wind resistance** : WL 1500  
**Low temperature** : T (00)  
**AEV rating** : A\*2 - E\*9A - V\*C2

### CERTIFICAT CE ET NF

- The SKYBAIE opening systems comply with CE standards in accordance with EN 12101-2-2003.
- CE certification no.: **0333-CPR-219085**
- 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**

## Profile

### Profile geometry



## Technical details



Ejector



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