

For FAÇADE

SKYBAIE®

O.S. Mécanique

VERSION



The advantages

MULTIDIRECTIONAL CONTROLLABLE PULLEY

Can be adjusted to the right or left of the device without having to operate the device.

SIMPLE, ACCESSIBLE MECHANISM

For easy maintenance

EQUIPMENT SUPPLIED WITH 20 m CABLES AS STANDARD

PULLEY PROTECTED BY A HOUSING IN THE SAME COLOUR AS THE CHASSIS

INTEGRATED EJECTOR AND MECHANISM, INVISIBLE WHEN CLOSED

The SKYBAIE Opening Only manual release is a thermal break smoke control façade frame. This CFLR can be used for natural smoke extraction in all types of buildings (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.

Finitions

- 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: 700 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 manual release consists of one or two bolt blocks (depending on the size of the chassis).
- The release travel of the cable is 30 mm (approximately 10%) and the dynamic resistance is < 1 daN.
- In the case of a frame with two locking devices, these are connected for simultaneous release.

Type of filling	Light transmission TL* (%)	Sun factor g* (%)	Filling weight (Kg/m ²)	Heat transfer from filling Ug (W-m ² .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

Open area (m²) and SUE (m²)

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
		free surface (m₂)																	
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								
		Aa (m₂)																	
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

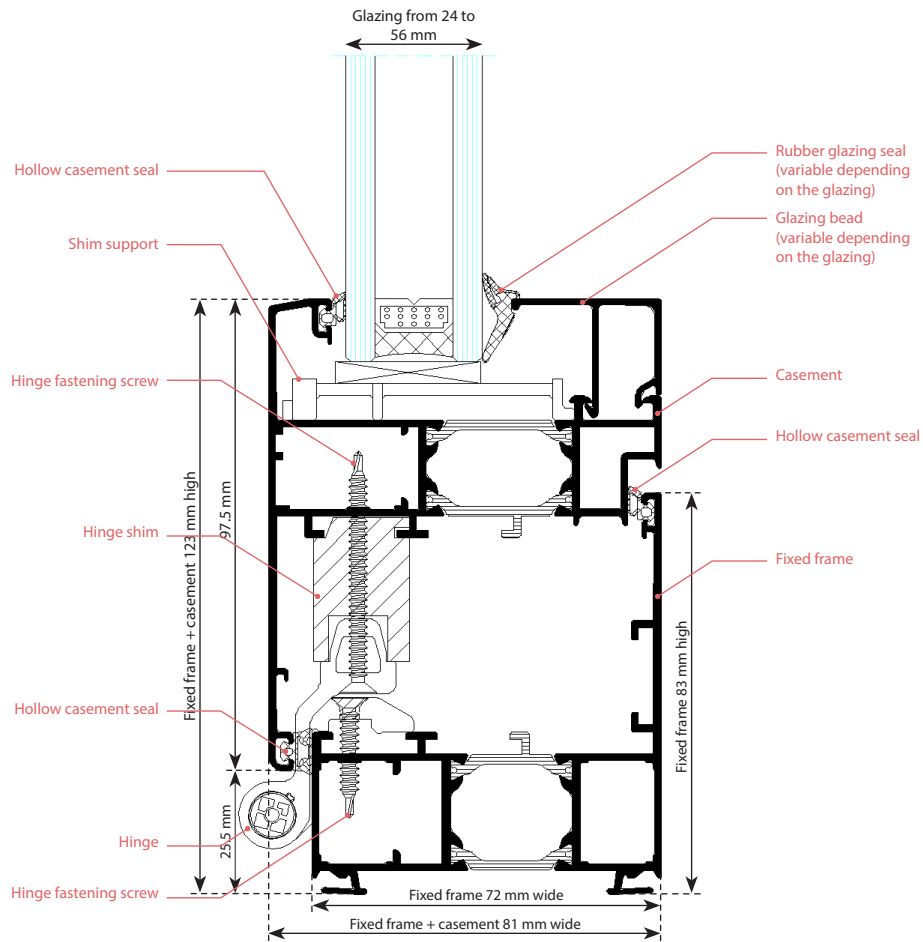
Operation : type A (opening only)
Useful surface : Aa
Aeraulic coefficient : $0.5 \leq C_v \leq 0.88$
Heat resistance : B300
Reliability : Re 1000 + Le 10000
Static wind resistance : WL 1500
Low temperature : T (00)
AEV rating : A*2 - E*9A - V*C2

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 detail



Ejector



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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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