For **FAÇADE**

SKYBAIE®

Ouverture/fermeture pneumatique

THERMIK' **VERSION**

THE ADVANTAGES

INTEGRATED COPPER NETWORK
accessible from all four corners of the appliance*.

MAINTENANCE-OPTIMISED SYSTEM
lock block can be opened manually / mechanism parts easily interchangeable

INVISIBLE MECHANISM IN CLOSED POSITION
(double-acting cylinders and integrated lock)

FEEDING POSITION ADAPTABLE TO THE WORK SITE
Right or left-hand drilling top of facade (interior view) on request. Right-hand drilling default.

The SKYBAIE pneumatic opening/closing system is a smoke extraction façade frame with a thermal break. This DENFC can be used for 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-resistant, 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
- Maximum tilt: 0° from vertical

Opening/Closing service pressures

Over the entire size range, the opening pressure of the pneumatic SKYBAIE is 8 bar. The closing pressures (bar) below are calculated for a maximum sash weight of 70 kg.

Height 800 mm	Widht (mm)																	
	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
700	6	7	8	9	10	11	12	14	15	16	17	18	19	20	20	20	20	20
800	6	7	8	9	10	11	12	13	14	15	16	16	16	16	16	16	16	16
900	7	8	9	11	12	13	14	15	17	17	17	17	17	17	17	17	17	17
1000	7	8	9	10	11	12	13	14	14	14	14	14	14	14	14	14	14	14
1100	7	8	9	10	11	12	13	13	13	13	13	13	13	13	13	13	13	13
1200	8	9	11	12	13	14	14	14	14	14	14	14	14	14	14	14	14	14
1300	9	10	12	13	14	14	14	14	14	14	14	14	14	14	14	14		
1400	9	11	13	14	14	14	14	14	14	14	14	14	14	14				
1500	11	12	14	15	15	15	15	15	15	15	15	15						
1600	12	14	15	15	15	15	15	15	15	15								

Thermal and acoustic performance

Type of filling	light transmission* (%)	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

Open area (m^2) and SUE (m^2)

		Widht (mm)																	
		700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Surface libre (m_2)																			
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 (m_2)																			
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	0.90	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	0.95	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

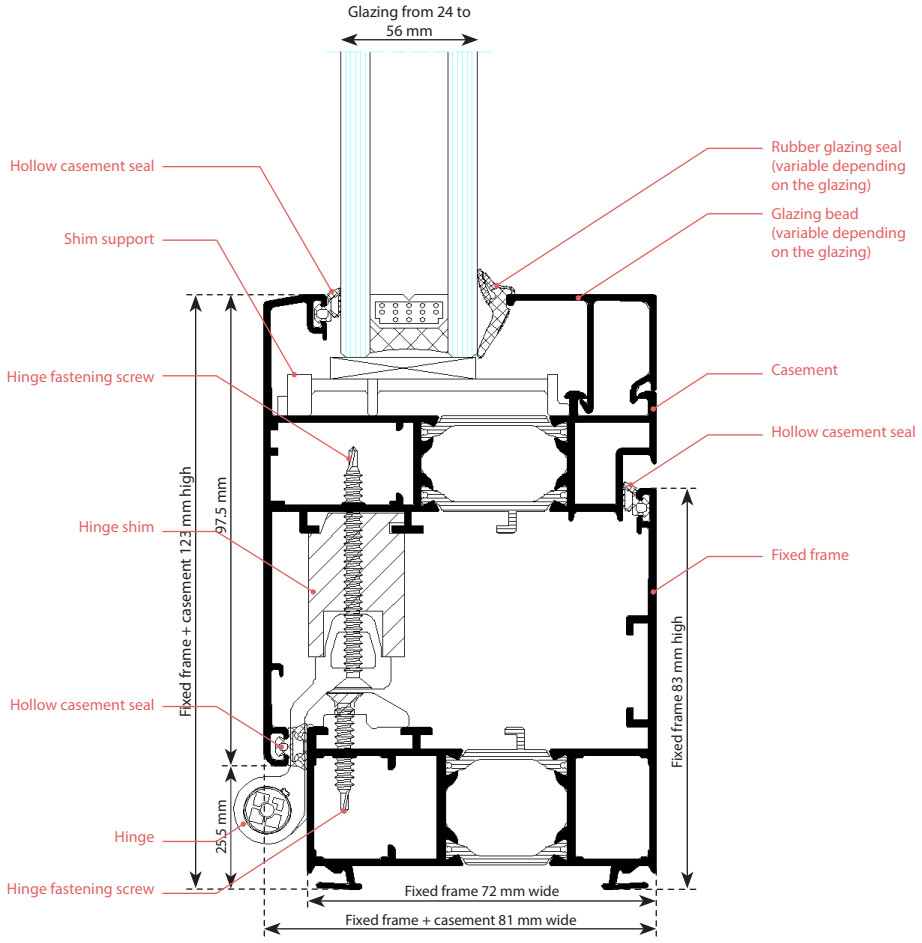
Operation : type B (open + close)
Useful surface : Aa
Aeraulic coefficient : 0.5 ≤ Cv ≤ 0.88
Heat resistance : B300
Reliability : Re 1000 + Le 10000
Static wind resistance : WL 1500
Low temperature : T (00)
AEV rating : A*2 - E*9A - V*C2

CERTIFICAT CE ET NF

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

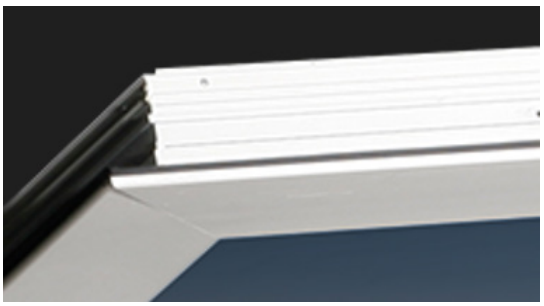
Profile

Profile geometry



Technical details

Integrated mechanism



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