

2. Description of the range : PYRODOME EVOLEC

Product variants concerned : PYRODOME EVOLUTION ELECTRIC

4. Name and business name of manufacturer :

SKYDOME SAS - Entre deux villes -- 02270 Sons et Ronchères - France - Head office & production

3. Product description

- Single leaf, electric energy, 160 ° opening, installed on the roof
- Metal mount ht310mm mini
- Styling (enhancement) metal ht170 mini
- Dimensional range (high hopper):
 - Square: length 1m to 2m; width 1m to
 - Rectangular: length 1m to 2.5m; width 1m to 1.4m

3.1 Possible option:

- Pca 10IR opal fills, Pca 10 grey, Pca 10 transparent, Pca 10+ lumira, Insulated aluminum cover, PMMA Double Dome, Full PC Double Dome
- Position switch
- Round grid Ø6mm or square tube 16x16mm 1200 joules
- Anti-sawing grid burglar retardant
- Holding stock
- Possibility of roof access by unlocking the lock block

3.2 Intended use : ROOF

3.3 Conditions of use and implementation related to certified performance

- Maximum permissible inclination of the appliance in the roof:
 - Hinges perpendicular to the ridge:
 - $Av < 2m^2$: 25° or 46, 65%
 - $Av \geq 2m^2$: 20° or 36,45%
 - Hinges parallel to the ridge
 - 3° or 5.25%

6. Systems for evaluating and verifying the constancy of the performance of the construction product

The notified body RESEARCH INSTITUTES OF SWENDEN AB has issued a certificate of constancy of performance in accordance with Annex ZA of EN 12101-2:2003 according to system 1 based on the initial factory inspection, factory production control and continuous monitoring of factory production control.


7. Construction product covered by harmonised standard EN 12101-2:

Certificate 0402-CPR-C500026 of 04/10/2020

9. Declared performance

Criteria	Performance	Normative references
Useful opening area Aa	See aeraulic performace tables	EN 12101-2, §6, annexes B
Opening the evacuation device	Type B	EN 12101-2, § 4.3
Reliability	RE 1000+ (10,000 daily aeration with optional kit)☒	EN 12101-2, § 7.1, annex C
Opening under load	SL250 to SL1500: See table of snow loads and working pressures☒	EN 12101-2, § 7.2, annex D
Low ambient temperature	T(-15°C)	EN 12101-2, § 7.3, annex E
Wind load	WL1500 (optinal WL3000)	EN 12101-2, § 7.4, annex F
Heat resistance	B ₃₀₀	EN 12101-2, § 7.5, annex G
Reaction to fire	PCA: Next filling Steel: M0 Alu : M0☒	EN 12101-2, § 7.5.2.1 EN 1873, § 5.5
Outdorr fire performance	PND	EN 1873, § 5.7
Water sealing	Success	EN 1873, § 5.3
Impact resistance: Small hard body: 1200J (Grid)	Success 1200j	EN 1873, § 5.4.3.1 EN 1873, § 5.4.3.2
Thermal conductance: Urc	Next filling, contact us	EN 1873, § 5.9.2.1
Thermal Conductance: plate	Next filling, contact us	EN 1873, § 5.9.2.2
Direct airborne noise insulation (plate)	Next filling, contact us	EN 1873, §5.10
Light transmission factor plate	Next filling, contact us	EN 1873, §5.1
Air permeability	PND	EN 1873, §5.8
Durability	PCA 10 : ΔA, Cu 0, Ku 0 PCA 16 : ΔD, Cu 0, Ku 0	EN 1873, § 5.2

Aeraulic performance table

 Off-range

 SD

 AD

Aeraulic Straight upstand and styling $\geq 310\text{mm}$											
la	100	110	120	130	140	150	160	170	180	190	200
Lo	100	110	120	130	140	150	160	170	180	190	200
100	0,55										
110	0,63	0,66									
120	0,68	0,71	0,78								
130	0,72	0,76	0,83	0,9							
140	0,77	0,84	0,89	0,96	1,04						
150	0,81	0,89	0,97	1,02	1,1	1,18					
160	0,85	0,94	1,02	1,08	1,17		1,34				
170	0,89	0,98	1,07	1,16	1,23			1,50			
180	0,93	1,02	1,12	1,22	1,31				1,67		
190	0,96	1,07	1,17	1,27	1,37					1,85	
195											2,04
200	1,00	1,10	1,21	1,32	1,42						
210			1,26	1,37							
220			1,3	1,41							
230			1,34	1,46							
240			1,37	1,5							
250			1,41	1,54							

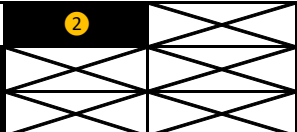
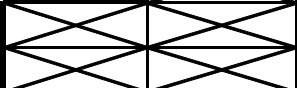

Aeraulic biased upstand $\geq 310\text{mm}$												
la	100 top	110 top	120 top	130 top	140 top	150 top	160 top	170 top	180 top	190 top	200 top	
Lo	114 bottom	124 bottom	134 bottom	144 bottom	154 bottom	164 bottom	174 bottom	184 bottom	194 bottom	204 bottom	214 bottom	
100 ht	0,70	0,76										
110 ht	0,76	0,83										
120 ht	0,83	0,90	0,97									
130 ht	0,89	0,96	1,04	1,11								
140 ht	0,95	1,03	1,11	1,19	1,27							
150 ht	1,01	1,10	1,18	1,27	1,35	1,43						
160 ht	1,08	1,17	1,26	1,35	1,43		1,61					
170 ht	1,14	1,23	1,33	1,42	1,52			1,80				
180 ht	1,20	1,30	1,40	1,50	1,60				1,99			
190 ht	1,26	1,37	1,47	1,58	1,68					2,19		
200 ht	1,32	1,44	1,45	1,57	1,68						2,40	
210 ht			1,50	1,62								
220 ht			1,56	1,68								
230 ht			1,61	1,74								
240 ht			1,66	1,80								
250 ht			1,71	1,85								


Aeraulic capping $\geq 170\text{mm}$											
la	100	110	120	130	140	150	160	170	180	190	200
Lo	100	110	120	130	140	150	160	170	180	190	200
100	0,53	0,57									
110	0,58	0,62									
120	0,64	0,67	0,72								
130	0,69	0,73	0,77	0,81							
140	0,74	0,79	0,83	0,87	0,91						
150	0,80	0,85	0,89	0,93	0,97	1,01					
160	0,85	0,91	0,96	1,00	1,04		1,11				
170	0,90	0,97	1,02	1,07	1,11			1,20			
180	0,97	1,03	1,09	1,14	1,18				1,29		
190	1,03	1,09	1,15	1,21	1,25					1,39	
195											1,48
200	1,08	1,16	1,22	1,28	1,33						
210			1,29	1,35							
220			1,35	1,42							
230			1,42	1,49							
240			1,49	1,56							
250			1,56	1,63							

Table of snow loads

- 1 1 x SA power single 4A/2A (24V/48V)
- 1 1 x SA power single 6A/3A (24V/48V)
- 2 2 x SA power single 4A/2A (24V/48V)
- 2 2 x SA power single 6A/3A (24V/48V)

Internal dimensions [mm]		SL125	SL250	SL500	SL800	SL1000	SL1500
Length	Width						
1000	1000	1	1	1	1	1	1
1000	1100	1	1	1	1	1	1
1000	1200	1	1	1	1	1	1
1000	1300	1	1	1	1	1	1
1000	1400	1	1	1	1	1	1
1000	1500	1	1	1	1	1	1
1000	1600	1	1	1	1	1	1
1000	1700	1	1	1	1	1	1
1000	1800	1	1	1	1	1	1
1000	1900	1	1	1	1	1	1
1000	2000	1	1	1	1	1	1
1200	1200	1	1	1	1	1	2
1200	1300	1	1	1	1	1	2
1200	1400	1	1	1	1	1	2
1200	1500	1	1	1	1	1	2
1200	1600	1	1	1	1	1	2
1200	1700	1	1	1	1	2	2
1200	1800	1	1	1	1	2	2
1200	1900	1	1	1	1	2	2
1200	2000	1	1	1	1	2	2
1200	2100	1	1	1	1	2	2
1200	2200	1	1	1	1	2	2
1200	2300	1	1	1	1	2	2
1200	2400	1	1	1	1	2	2
1200	2500	1	1	1	2	2	2
1400	1400	1	1	1	1	1	2
1400	1500	1	1	1	1	2	2
1400	1600	1	1	1	2	2	2
1400	1700	1	1	1	2	2	2
1400	1800	1	1	1	2	2	2
1400	1900	1	1	1	2	2	2
1400	2000	1	1	1	2	2	2
1500	1500	1	1	1	1	2	2
1600	1600	1	1	1	2	2	2

1700	1700	1	1	1	2	2	
1800	1800	1	1	2	2	2	
2000	1950	1	1	2	2	2	

10. The performance of the product identified in points 1 and 2 shall be consistent with the declared performance set out in point 9. This declaration of performance is drawn up under the sole responsibility of the manufacturer identified in point 4. 

Signed for the manufacturer and on his behalf by Thierry Badet, Managing Director, in Sons et Ronchères.
 Updated on 26/07/2022