

2. Description of the range : PYRODOME EVOLUTION

Product variants concerned : PYRODOME EVOLUTION TREUIL

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, intrinsic energy, 155° opening, installed on the roof
- Metal mount ht310mm mini
- Styling (enhancement) metal ht170 mini
- Styling (enhancement) metal ht170 mini
 - Square: length 1m to 1.6m; width 1m to 1.6m
 - Rectangular: length 1m to 2m; width 1m to 1.4m

3.1 Possible option :


- Aeraulic device:
 - SD: without deflector
 - AD: with deflectors
- Position switch
- Fixed grid 1200 joules, wire of Ø6 or tube 16x16 without influence on the aeraulic
- Opening grid bar 16x16 1200 joules (depending on dimensions)
- Ladder hanging bar (depending on dimensions)
- Grab stock (depending on dimensions)

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:
 - $A_v < 2m^2$: 25° or 46, 65%
 - $A_v \geq 2m^2$: 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 AFNOR CERTIFICATION N°0333 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:

CE Certificate N° 0333 - CPR - 219016 Valid until 28/01/2026

9. Declared performance :

Criteria	Performance	Normative reference
Useful opening area Aa	See aeraulic performance tables	EN 12101-2, §6, annexes B
Thermal trigger	91°C to145°C	EN 12101-2, § 4.1
Opening the evacuation device	Type B	EN 12101-2, § 4.3
Reliability	RE 300	EN 12101-2, § 7.1, annex C
Opening under load	SL250 and SL500 : See table of snow loads and working pressures	EN 12101-2, § 7.2, annex D
Low ambient temperature	T(00)	EN 12101-2, § 7.3, annex E
Wind load	WL1500	EN 12101-2, § 7.4, annex F
Heat resistance	B300	EN 12101-2, § 7.5, annex G
Reaction to fire	PCA : Next filling, contact us Steel : M0 Alu : M0	EN 12101-2, § 7.5.2.1 EN 1873, § 5.5
Outdoor fire	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 ≥310mm											
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 0,68										
110	0,63 0,75	0,66 0,82									
120	0,68 0,81		0,78 0,96								
130	0,72 0,88		0,83 1,04	0,90 1,12							
140	0,77 0,94		0,89 1,12		1,04 1,28						
150	0,81 1,00		0,97 1,20		1,10 1,38	1,18 1,45					
160	0,85 1,07		1,02 1,28		1,17 1,47		1,34 1,63				
170	0,89 1,14		1,07 1,36		1,23 1,57						
180	0,93 1,20		1,12 1,43		1,31 1,66						
190	0,96 1,27		1,17 1,51		1,37 1,76						
195											
200	1,00 1,33		1,21 1,59		1,42 1,85						
210											
220											
230											
240											
250											

Aeraulic biased upstand ≥310mm												
la	100 top	110 top	120 top	120 top	140 top	150 top	160 top	170 top	180 top	190 top	200 top	
Lo	114 bottom	124 ottom	134 bottom	144 bottom	154 bottom	164 bottom	174 bottom	184 bottom	194 bottom	204 bottom	214 bottom	
100 ht	0,70											
114 bas	0,87											
110 ht	0,76	0,83										
124 bas	0,95	1,03										
120 ht	0,83		0,97									
134 bas	1,02		1,20									
130 ht	0,89		1,04	1,11								
144 bas	1,10		1,30	1,40								
140 ht	0,95		1,11		1,27							
154 bas	1,18		1,39		1,60							
150 ht	1,01		1,18		1,35	1,43						
164 bas	1,25		1,48		1,71	1,82						
160 ht	1,08		1,26		1,43		1,61					
174 bas	1,33		1,57		1,81	2,05						
170 ht	1,14		1,33		1,52							
184 bas	1,41		1,66		1,92							
180 ht	1,20		1,40		1,60							
194 bas	1,48		1,75		2,02							
190 ht	1,26		1,47		1,68							
204 bas	1,56		1,84		2,12							
195 ht												
209 bas												
200 ht	1,32		1,45		1,68							
214 bas	1,64		1,95		2,24							
210 ht												
224 bas												
220 ht												
234 bas												
230 ht												
244 bas												
240 ht												
254 bas												
250 ht												
264 bas												

Aeraulic upstand capping ≥170mm											
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	0,57 0,68										
110	0,63 0,75	0,67 0,82									
120	0,68 0,81		0,77 0,97								
130	0,74 0,88		0,82 1,04	0,87 1,13							
140	0,79 0,94		0,88 1,12		0,97 1,30						
150	0,85 1,01		0,95 1,20		1,03 1,38	1,08 1,48					
160	0,90 1,07		1,02 1,27		1,10 1,47		1,18 1,67				
170	0,96 1,14		1,08 1,35		1,18 1,56						
180	1,03 1,20		1,15 1,42		1,25 1,65						
190	1,09 1,26		1,22 1,50		1,33 1,73						
195											
200	1,15 1,33		1,29 1,57		1,40 1,83						
210											
220											
230											
240											
250											


Table of snow loads

Off-range
 SL250
 SL500
 C Centered crossbeam
 D Remote crossing

Snow load SL250, SL500											
PCA10 / PCA16 / PCA16+ / Opaque 10mm Cover / Single											
La	100	110	120	130	140	150	160	170	180	190	200
Lo											
100	D										
110	D	D									
120	D		D								
130	C		C	C							
140	C		C		C						
150	C		C		C	C					
160	C		C		C		C				
170	C		C		C						
180	C		C		C						
190	C		C		C						
195											
200	C		C		C						
210											
220											
230											
240											
250											

Snow load SL											
PCA32 / PCA32+ / Double Dome / Hood 40mm / Hood 60mm /											
La	100	110	120	130	140	150	160	170	180	190	200
Lo											
100	D										
110	D	D									
120	D		D								
130	C		C	C							
140	C		C		C						
150	C		C		C	C					
160	C		C		C						
170	C		C		C						
180	C		C		C						
190	C		C		C						
195											
200	C		C		C						
210											
220											
230											
240											
250											

SL snow load and working pressure											
Pca32 & Dome/Pca32+ & Dome/Triple Dome/Acoustik'light											
la	100	110	120	130	140	150	160	170	180	190	200
Lo											
100	D										
110	D	D									
120	D		D								
130	C		C	C							
140	C		C		C						
150	C		C		C	C					
160	C		C		C						
170	C		C		C						
180	C		C		C						
190	C		C		C						
195											
200	C		C		C						
210											
220											
230											
240											
250											

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