

Creation date : 16/05/2022

DOP reference: RET

2. Description of the range : ROOFLAM EVOLUTION

Product variants concerned : ROOFLAM 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
- Dimensional range (high hopper):
 - 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)

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 - 219018 Valid until 28/01/2026

9. Declared performance :

Criteria	Performances	Références Normatives
Useful opening area Aa	See aeraulic performance tables	EN 12101-2, §6, annexes B
Thermal trigger	70°C to 145°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 ²	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 ²	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, consult us	EN 1873, § 5.9.2.1
Thermal conductance : plate	Next filling, consult us	EN 1873, § 5.9.2.2
Direct airborne noise insulation (plate)	Next filling, consult us	EN 1873, §5.10
Light transmission factor plate	Next filling, consult 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

Aeraulics 20° slope on 195mm ≥310mm											
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 top	0,70										
114 bot	0,87										
110 top											
124 bot											
120 top			0,97								
134 bot			1,20								
130 top											
144 bot											
140 top					1,27						
154 bot					1,60						
150 top	1,01					1,43					
164 bot	1,25					1,82					
160 top											
174 bot											
170 top											
184 bot											
180 top											
194 bot											
190 top											
204 bot											
195 top											
209 bottom											
200 top	1,32		1,45								
214 bot	1,64		1,95								
210 top											
224 bottom											
220 top											
234 bottom											
230 top											
244 bottom											
240 top											
254 bottom											
250 top											
264 bottom											

Aeraulics 45° slope on 195mm ≥310mm											
la	100 top	110 top	120 top	130 top	140 top	150 top	160 top	170 top	180 top	190 top	200 top
Lo	124 bottom	130 bottom	140 bottom	150 bottom	160 bottom	170 bottom	180 bottom	190 bottom	200 bottom	210 bottom	220 bottom
100 top	0,63										
120 bot	0,71										
110 top											
130 bot											
120 top			0,88								
140 bot			0,98								
130 top											
150 bot											
140 top					1,17						
160 bot					1,30						
150 top	0,94					1,33					
170 bot	1,04					1,47					
160 top							1,50				
180 bot							1,67				
170 top											
190 bot											
180 top											
200 bot											
190 top											
210 bot											
195 top											
215 bottom											
200 top	1,27		1,35		1,58						
220 bot	1,40		1,50		1,75						
210 top											
230 bottom											
220 top											
240 bottom											
230 top											
250 bottom											
240 top											
260 bottom											
250 top											
270 bottom											

Table of snow loads

Off-range
 SL250
 SL500
 C Centered crossbeam
 D Remonte crossing

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

Cartridge according to size and overload											
PCA10 / PCA16 / PCA16+ / Opaque 10mm Cover / Single Dome											
La	100	110	120	130	140	150	160	170	180	190	200
Lo											
100											
110											
120											
130											
140											
150											
160											
170											
180											
190											
195											
200											
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											
120			D								
130											
140					C						
150	C					C					
160											
170											
180											
190											
195											
200	C		C		C						
210											
220											
230											
240											
250											

Cartridge according to size and overload											
PCA32 / PCA32+ / Double Dome / Hood 40mm / Hood 60mm /											
La	100	110	120	130	140	150	160	170	180	190	200
Lo											
100											
110											
120											
130											
140											
150											
160											
170											
180											
190											
195											
200											
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											
120			D								
130											
140					C						
150	C					C					
160											
170											
180											
190											
195											
200	C		C		C						
210											
220											
230											
240											
250											

Cartridge according to size and overload PCA32 & Dome/Pca32+ & Dome/Triple Dome/Acoustik'light											
la	100	110	120	130	140	150	160	170	180	190	200
Lo											
100											
110											
120											
130											
140											
150											
160											
170											
180											
190											
195											
200											
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