

Creation date : 14/04/2022

DOP reference: REP

2. Description of the range : ROOFLAM EVOLUTION

Product variants concerned : ROOFLAM EVOLUTION PNEU

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, pneumatic energy, 155° opening, installed on the roof
- Polyester shell ht310mm
- Dimensional range (high hopper):
 - Square: length 1m to 1.6m; width 1m to 1.6m
 - Rectangulaire : longueur 1m à 2,5 m ; largeur 1m à 1.4m

3.1 Possible option :

- Aeraulic device :
 - SD : without deflector
 - AD : with deflectors
- Position switch
- Aeraulic device
- Fixed grid 1200 joules, wire of Ø6 or tube 16x16 without influence on the aeraulic
- Opening grid bar 16x16 1200 joules

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 parallel to the ridge:
 - Av<2m² : 25° or 46, 65%
 - Av≥2m² : 20° or 36,45%
 - Hinges perpendicular to the ridge
 - 3° or 5,24%

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 - 219017 valid until 28/01/2026

9. Declared performance

Criteria	Performance	Normative references
Useful opening area Aa	See aeraulic performance tables	EN 12101-2, §6, annexes B
Thermal trigger	93 to 183 °	EN 12101-2, § 4.1
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 the evacuation device	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 Acier : 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 Polyester Covers 310mm Biais											
la	100	110	120	130	140	150	160	170	180	190	200
Lo											
100	0,79 0,87										
110											
120			0,97 1,20								
130											
140					1,27 1,60						
150	1,01 1,25					1,43 1,82					
160							1,61 2,05				
170											
180											
190											
195											
200	1,32 1,64	1,45 1,95			1,68 2,24						
210											
220											
230											
240											
250			1,71 2,41								

Table of snow loads and working pressures

Hopper width	Cylindre	Volume in l
1000		1,7
1200		1,9
1400	Ø56	2
1500		2
1600	Ø53	2,7

Off-range SL250 SL500

Snow load SL250, SL500 and working pressure PCA10 / PCA16 / PCA16+ / 10mm opaque cover / single dome											
la	100	110	120	130	140	150	160	170	180	190	200
Lo											
100	10 15										
110											
120			11 15								
130											
140					13 22						
150	10 15					17 27					
160							16 26				
170											
180											
190											
195											
200	11 15	14 20			18 30						
210											
220											
230											
240											
250			17 24								

Cartridge according to size and overload PCA10 / PCA16 / PCA16+ / 10mm opaque cover / single dome											
la	100	110	120	130	140	150	160	170	180	190	200
Lo											
100	20g 80g										
110											
120			40g 80g								
130											
140					80g 80g						
150	40g 80g					80g 150g					
160							80g 150g				
170											
180											
190											
195											
200	80g 80g	80g 80g			80g 150g						
210											
220											
230											
240											
250			80g 80g								

SL snow load and working pressure PCA32 / PCA32+ / Double Dome / 40mm Hood / 60mm Hood /											
la	100	110	120	130	140	150	160	170	180	190	200
Lo	10										
100	15										
110											
120			11								
130			15								
140					14						
150	10				23						
160	15					17					
170						25					
180							17				
190							28				
195											
200	11										
210	15										
220											
230											
240											
250											

Cartridge according to size and overload PCA32 / PCA32+ / Double Dome / 40mm Hood / 60mm Hood /											
la	100	110	120	130	140	150	160	170	180	190	200
Lo	20g										
100	80g										
110											
120					40g						
130					80g						
140						80g					
150	40g					80g					
160	80g					150g					
170							80g				
180							150g				
190											
195											
200	80g										
210	80g										
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	15										
100											
110											
120			15								
130											
140					23						
150	15					25					
160							28				
170											
180											
190											
195											
200	15										
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	80g										
100											
110											
120					80g						
130											
140						80g					
150	80g					150g					
160							150g				
170											
180											
190											
195											
200	80g										
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