

2. Description of the range : ARCADEF EVOLUTION

Product variants concerned : ARCADEF EVOLUTION PNEUMATIC

4. Name and business name of manufacturer :

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

3. Product description

- Smoke extraction outlet pneumatically powered spinning vault opening double leaf closure
- Straight steel costing height 300mm mini
- Dimensional range :
 - Rope from 1.5m to 3m
 - Width : 1m

3.1 Possible option :


- Aeraulic device:
 - AD: with deflectors height 100 or 150mm high (above filling)
- Position switch
- Aeration by full opening
- Fixed grid 1200 joules, wire of Ø6 or tube 16x16 without influence on the aeraulic
- Heat trigger

3.2 Intended USE : Devices installed on ARACADE vault

3.3 Conditions of use and implementation related to certified performance

- Maximum permissible inclination of the device:
 - Whatever the configuration of installation of the opening (within the limit of the support vault)
20° or 36.3%

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 - 219022 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	According to enslavement	EN 12101-2, § 4.1
Opening the evacuation device	Type B	EN 12101-2, § 4.3
Reliability	RE 300 + 10000 in aeration (JOFO) RE 300 (K+G)☒	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	SL250 and SL500: See table of snow loads and working pressures	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	PND	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

Table of Aeraulic performance and cylinder characteristics

AD100
 AD150
 Opening
 Closure and aeration
Type of deflectors

Rope cm	Width cm	Ventilation		Cylinder				
		Aa		∅	Volume (l)	Pressure		Cartridge (g)
150,00	100,00	0,89	0,96	40	1,376	15	7	100
160,00	101,00	0,95	1,03	40	1,376	15	7	100
170,00	102,00	1,02	1,10	40	1,376	15	7	100
180,00	103,00	1,09	1,18	40	1,376	15	7	100
190,00	104,00	1,60	1,25	40	1,376	15	7	100
200,00	105,00	1,23	1,33	40	1,376	15	7	100
210,00	106,00	1,30	1,40	40	1,376	15	7	100
220,00	107,00	1,37	1,48	40	1,376	15	7	100
230,00	108,00	1,44	1,56	40	1,376	15	7	100
240,00	109,00	1,52	1,64	40	1,376	15	7	100
250,00	110,00	1,59	1,72	40	1,376	15	7	100
260,00	111,00	1,67	1,80	40	1,376	15	7	100
270,00	112,00	1,74	1,88	40	1,376	15	7	100
280,00	113,00	1,82	1,96	40	1,376	15	7	100
290,00	114,00	1,90	2,05	40	1,376	15	7	100
300,00	115,00	1,98	2,13	40	1,376	15	7	100

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