



0333



*N° of certificate: 0333 CPD219 017*  
*Norm of reference: NF EN 12101-2*

*Year of certificate: 2006*

**INSTALLATION AND  
MAINTENANCE  
NOTICE  
OF**

**ROOFLAM® EVOLUTION  
PNEUMATIQUE**



The following notice is not a contractual document; the manufacturer reserves the right without prior notice to do any modification.



DEPARTEMENT ECLAIREMENT ZENITHAL ET DESENFUMAGE INCENDIE

'Entre 2 villes' F-02270 Sons-et-Rochères - Tel. (33) 03 23 21 7990 - Fax: (33) 03 23 20 51 18 - <http://www.skydome-axt.com>



Headquarter: 8, avenue Félix d'Hérelle - 75016 Paris - SA au Capital de 15.484.334 € - RCS PARIS B 31 844 527 - TVA VADIVAM nst. FR 60 351 844 527 C

## SUMMARY:

<b>INTRODUCTION:</b>	<i>Page 3</i>
<b>PRECAUTIONS OF THE SUPPORT:</b>	<i>Page 3</i>
<b>DESCRIPTION OF THE « CE » LABEL:</b>	<i>Page 4</i>
<b>THE RANGE:</b>	<i>Page 5</i>
<b>INSTALLATION OF THE UNIT:</b>	<i>Page 5</i>
<b>INSTALLATION OF THE DEFLECTORS:</b>	<i>Page 6</i>
<b>ASSEMBLY AND CONNECTION:</b>	<i>Page 6</i>
<b>PUT INTO SERVICE:</b>	<i>Page 6</i>
<b>MAINTENANCE AND PERIODIC CHECKINGS:</b>	<i>Page 7</i>
<b>REPLACEMENT:</b>	<i>Page 7</i>
<b>OPTION(S):</b>	<i>Page 7</i>

## MAINTENANCE AND PERIODIC CHECKINGS:

*All our products are not guaranteed in case of an exposure likely to change the initial characteristics of one element or one function of the unit.*

The working, maintenance and periodic verifications' operations should be done following the current texts' and norms' requirements as well as the following SKYDOME® prescriptions:

*Proceed to a minimum of 2 times per year of an opening/closing in security position of the unit.*

The verifications' operations:

Verify especially the state of the articulations, hinges, lock as well as the jacks' rod. It is important to maintain these elements lubricated (grease, oil), except the jacks' rod.

Verify the tightening of screwed elements. (Links, bearings of the jacks...)  
Verify the efficiency of the locking system.

When the rod of the pneumatic jack is scratched, distorted or if there is a presence of leaks, replace it.

Do not clean the jack's rod with a solvent product. It could damage the joints. Do not paint the jack's rod.

*The verifications' operations of the unit are of minimum 1 time per year.*

## REPLACEMENT:

All the components of the unit are available upon request at SKYDOME®.

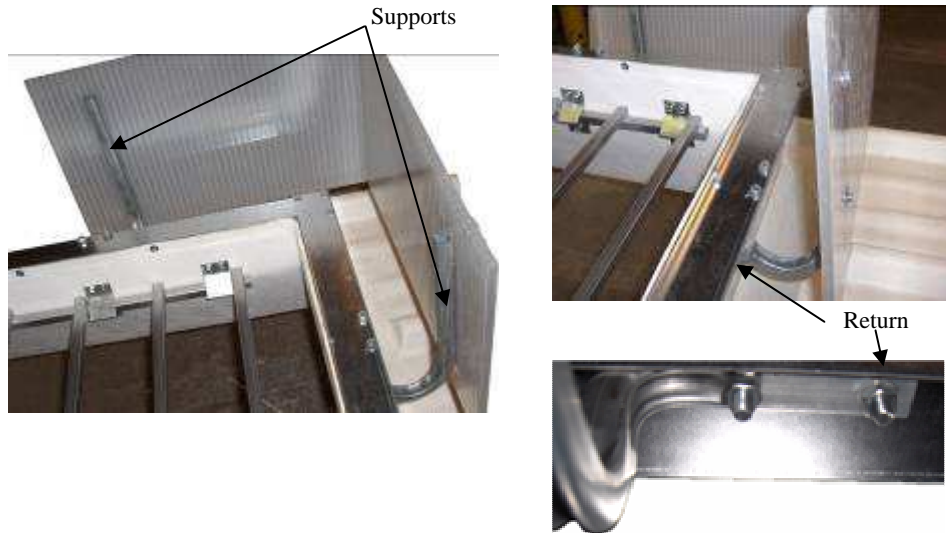
## OPTION(S):

The ventilation option is operated by a 220V electric jack. It does not impede the smoke evacuation function of the unit.

**INSTALLATION OF THE DEFLECTORS:**

The 2 deflectors are fixed on each angle opposite to the hinges, thanks to 2 supports.

- a) Unscrew the 4 auto brake nuts under the return of the kerb.
- b) Place the 2 pre drilled supports of the deflector on the 4 screws already in place.
- c) Reposition and screw the 4 auto brake nuts (2 per support)



**ASSEMBLY AND CONNECTION:**

The unit is delivered with all the connections done in the factory.  
 For the connection of the unit and its options to the pneumatic security supply, please refer to the current norm.  
 For a SKYDOME® unit, the opening and closing connections have an adhesive tape:

**YELLOW** = **CLOSING**                      **RED** = **OPENING**

**PUT INTO SERVICE:**

Once the unit assembled, cut the security plastic collar which holds the opening panel during the transport.

To put the unit into service, make sure that the pressure of the pneumatic jack matches the values defined in the tables page 5/8.

Make one or several test(s) to verify the good functioning of the unit. In particular, verify the mechanical and pneumatic opening and closing of the unit as well as its locking function.  
 To guarantee the passage into the security position of less than 1mn, the device must be totally bled.

**INTRODUCTION:**

The smoke evacuation unit with single opening panel of the range ROOFLAM® EVOLUTION PNEUMATIQUE is a unit working on internal and/or external pneumatic energy according to the norm NF EN 12101-2.

The availability of the energy source must be assured.

*The unit has to be installed in accordance with the norms, technical instructions, and all rules or texts applied.*

**PRECAUTIONS OF THE SUPPORT:**

The support getting the unit has to be realized following the normalised tolerances of the building construction.

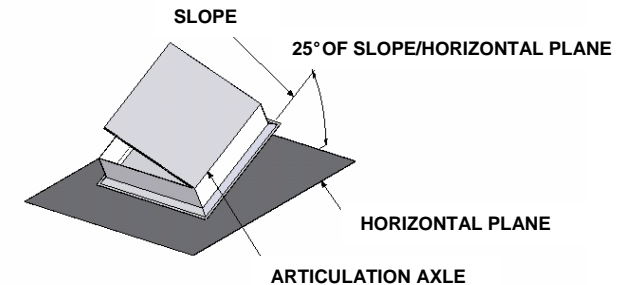
The installation of the unit has to be done following one of these two rules:

**Rule 1:**

*The maximum slope authorised when the articulation axle is parallel to the roof slope and the Geometric Surface (Av) is < 2m² is 25° that is to say 46,65%.*

*The maximum slope authorised when the articulation axle is parallel to the roof slope and the Geometric Surface (Av) is > 2m² is 20° that is to say 36,45%.*

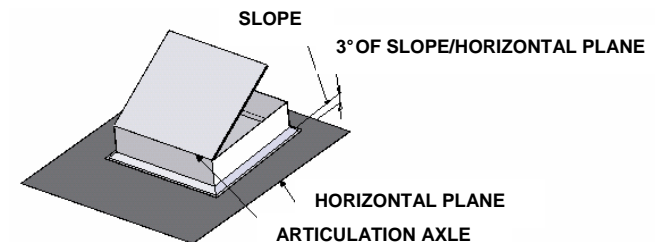
*In both cases, the hinges are positioned on the right side if you look to the roofing.*



**Rule 2:**

*The maximum slope authorised when the articulation axle is perpendicular to the roof slope is 3° that is to say 5,25%.*

*In this case, the hinges are positioned in the bottom part of the slope.*



**DESCRIPTION OF THE « CE » LABEL:**

- ① Number of certificate and its obtaining date.
- ② Norm of reference in application.
- ③ Commercial name of the unit.
- ④ Opening Surface, (Aa).
- ⑤ Respectively:
  - Type of opening unit.
  - Classification of the wind loading.
  - Classification of the snow load.
  - Classification of inside temperature class.
  - Classification of reliability class.
  - Classification of heat resistance.
  - Classification of fire reaction of the unit's materials, following the applied European norm.
- ⑥ N° of production order.
- ⑦ Article Code (for the traceability of the unit).
- ⑧ Description of the security options:  
Operating Temperature of the thermal fuse option.  
Presence or not, of a position contactor.
- ⑨ Production date of the unit.

DEPARTEMENT ECLAIREMENT ZENITHAL ET DESENFUMAGE INCENDIE D'AXTER Entre deux ville - 02270 Sans-et-François Tél:(33) 03.23.24.79.90 - Fax:(33) 03.23.20.51.19 - Email: info@skydome-axt.com	
N° certificat	① 2006
NF EN 12101-2:200x	②
Dispositif d'évacuation naturelle de fumées et de chaleur	
<b>ROOFLAM EVOLUTION PNEUMATIQUE</b>	
③	
Aa = XX m²	④
type B; WL 1500; SL 500; T(0); RE 1000; B 300; Ax	⑤
OF0511083XX	⑥ Code: 8RXXXXXXXXXX
Options de sécurité: T=xxx; contacteur de position	⑧
Date de fabrication: Date	⑨

**THE RANGE:**

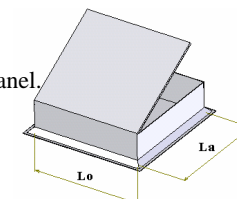
The characteristics of entries of the unit are available on the CE marked label located on the front inner side of the kerb.

Below the summary tables of the air consumption and snow load (SLxxx) depending on your unit.

DIMENSIONS	JACK		OPENING				CLOSING
			GLAZING PCA		GLAZING ALU COVER and DOME until 140x200		
	Ø JACK	VOLUME	PRESSURE FOR 250Pa(25kg/m²)	PRESSURE FOR 500Pa(50kg/m²)	PRESSURE FOR 250Pa(25kg/m²)	PRESSURE FOR 500Pa(50kg/m²)	PRESSURE
cm x cm	mm	Norm-litres	bar	Bar	bar	bar	bar
100 x 100	56	17	10	15	10	15	13
100 x 150	56	17	10	15	10	15	13
100 x 200	56	17	10	15	10	20	13
120 x 120	56	19	10	15	10	15	13
120 x 200	56	19	13	20	/	/	13
120 x 250	56	19	13	21	/	/	13
140 x 140	56	20	13	21	14	22	13
140 x 200	56	20	15	21	/	/	13
150 x 150	56	20	15	21	13	22	13
160 x 160	63	27	15	25	16	26	13
180 x 180	63	26	20	/	/	/	13
200 x 195	63	26	26	/	/	/	13

\*

« La » is the width of the unit which gets the central pneumatic system.  
« Lo » is the length of the unit which includes the hinges of the opening panel.



**INSTALLATION OF THE UNIT:**

**Any operation that could damage the mechanisms and/or the structure of the unit is forbidden. SKYDOME® could not be considered responsible for the incidents resulting from these operations.**

**The installation of the ROOFLAM® EVOLUTION PNEUMATIQUE:**

The unit has to be installed according to the current texts' and norms' recommendations.