



Installation and maintenance instructions

Pyrotop

Designation and trade reference: Pyrotop

Certificate No. : 0333 CPD 219 053

DOP: PTP

Year of certificate: 2006

Reference standard: NF EN 12101-2 / NF S 61-937-1 / NF S 61-937-7

Certification rule: CE 219 / NF 537

Warning: This notice cannot constitute a contractual document; the manufacturer reserves the right to make without notice any modification he deems useful.



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Page 1 on 10	Ref: NIE-053-6 Pyrotop Updated: 02/08/2022	SKYDOME Factory Entre-deux-Villes 02270 Sounds-and-Ronchères Phone : 03 23 21 79 90	
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Table of Contents

- 1. Identification 3
 - 1. Type of DENFC (Natural Smoke and Heat Evacuation System) 3
 - 2. Range Type 3
 - 3. Energy type 3
 - 4. Possible variants in range 3
- 2. Characteristics 4
 - 1. General characteristics of Operated Safety Devices (SARs) 4
 - 2. General characteristics of constituents: 4
- 3. Media precautions 4
 - 1. The support receiving the DENFC must be flat, within the normative tolerances of building construction. 4
 - 2. The installation of DENFC is carried out according to one of the following two rules: 4
 - (a) Rule 1 4
 - (b) Rule 2 5
- 4. Explanation of the product marking code 5
- 5. Range 77
- 6. Installation and implementation 8
 - 1. The installation of apparatus 8
 - 2. Implementation of PYROTOP® according to its support 8
 - 3. Installation of the PYROTOP® in enhanced version 8
 - 4. Schematic diagrams for fixing an apparatus according to its version 9
 - 5. Assembly and connection 9
- 7. Instructions for use 9
- 8. Maintenance instructions 10
- 9. Spare 10
- 10. Additional information about options: 10
- 11. Note 10



1. Identification

1. Type of DENFC (Natural Smoke and Heat Evacuation System)

DENFC mounted on the roof.

2. Type of range

Asingle opening smoke extraction from the PYROTOP® range.

3. Type of energy

DENFC powered by intrinsic energy within the meaning of standard NF EN 12101-2.
The availability of the energy source must be ensured.

4. Possible variants in the range

- Costières:
 - Right rib
 - Styling Costume
- Fills:
 - Honeycomb polycarbonate cover thickness 10 and 16 mm
 - Single or double dome
- Options:
 - Fuse trigger temperature
 - Fall arrest bar and/or burglary delay
 - Bar hangs ladder and / or holding stock according to styling costing height



2. Characteristics

1. General characteristics of Operated Safety Devices (SARs)

- A D.A.S. must not issue an order
- Devices for checking the safety and/or waiting positions of the D.A.S.
- Unblocking energy external to the D.A.S.
- Functional independence of the self-control and remote control
- No remote reset if passing in safety position by self-control
- Rearmament by remote control only if the energy to the previous rearmament has been interrupted
- End-of-life damping
- Type B or type A if height of the component to be handled less than or equal to 2.50 m from the ground

2. General characteristics of the constituents:

- Control of the positions of the D.A.S.
- Presence of the main connecting device
- Operation of the traction stop device

3. Precautions on the support

1. The support receiving the DENFC must be flat, within the normative tolerances of building construction.

2. The installation of the DENFC is carried out according to one of the following two rules:

a) Rule 1

The maximum slope allowed when the axis of articulation is parallel to the roof slope and the Geometric Surface (A_v) is $< 2m^2$, is 25° or 46.65%.

The maximum slope allowed when the axis of articulation is parallel to the roof slope and the Geometric surface (A_v) is $> 2m^2$, is 20° or 36.45%.



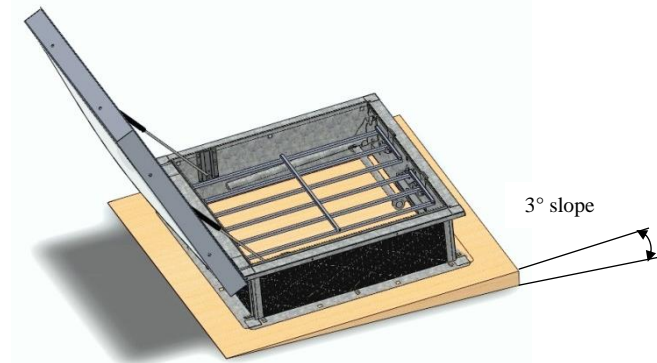


Installation and maintenance instructions

Pyrotop



b) Rule 2

The maximum slope allowed when the axis of articulation is perpendicular to the roof slope is 3° or 5.25%. In this case, the hinges are positioned at the bottom of the slope.



Warning: the device must be installed according to the standards, technical instructions, and any rules or texts in force.


4. Explanation of the product marking code

0333 Titulaire N°07


SKYDÔME®
SONS-ET-RONCHÈRES

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<p>①</p> <p>②</p> <p>③</p> <p>④</p> <p>⑤</p> <p>⑧</p> <p>⑥</p>	<p>N° certificat : 0333-CPR-219053 - 2006 - CT3 - M.toiture</p> <p>NF EN 12101-2 2003</p> <p>Dispositif d'évacuation naturelle de fumées et de chaleur</p> <p>PYROTOP</p>  <p>Aa0.15 Dimension Tremie (1x1)</p> <p>TypeB; WL1500; SL250;T0;RE300;</p> <p>ER : <=100daN CC : >=2300mm</p> <p>300; B-s1, d0 RD: < 0.5 daN</p> <p>Option de sécurité : T93°C</p> <p>OF210110113.001 Code : CT30002060300B</p> <p>Date de fabrication : JANVIER 2021</p> <p>PYROTOP.SL250 100x100 Pea10 Opal H310 Isol15 Fusible 93</p>	<p>⑦</p> <p>⑨</p>
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OF210110113.001 Date de fab JANVIER 2021

CT30002060300B

10 

Page 5 on 10	Ref: NIE-053-6 Pyrotop Updated: 02/08/2022	SKYDOME Factory Entre-deux-Villes 02270 Sounds-and-Ronchères Phone : 03 23 21 79 90	
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Installation and maintenance instructions

Pyrotop

- 1 Certificate number.
- 2 Reference standard in effect.
- 3 Trade description of the device.
- 4 Hopper size and Useful Aperture area (Aa).
- 5 Respectively:
 - Type of opening of the natural smoke and heat evacuation device.
 - Classification of wind load.
 - Classification of snow load.
 - Ambient temperature classification.
 - Reliability classification.
 - Cable tension and cable travel
 - Heat resistance classification.
 - Reaction to fire classification of the materials constituting the DENFC, according to the European standard in force.
 - Dynamic resistance
- 6 Manufacturing order number.
- 7 Item code (for device traceability).
- 8 Description of security options:
- 9 Date of manufacture of the device.



5. The range

The input characteristics of the device are available on the CE marking label on the inside front of the upstand.

Below is the summary table of the maximum tension force on the cable for the rest of the device.

SIZE	OPENING		
	ALL FILLS		
Hopper* The x Lo	Maximum rearmament effort	Cable travel	Dynamic resistance RD
cm x cm	dan	mm	Dan
100 x 100	≤ 100	2300	<0.5

"The" is the width of the device that receives the oleopneumatic cylinders.

"Lo" is the length of the device that includes the hinges of the opening.

The complete range admits an overload of 25Kg/m², regardless of the type of filling.



(Non-contractual image)



6. Installation and implementation

1. The installation of the device

Caution: any maneuver that may damage the mechanisms and/or structure of the DENFC is prohibited. SKYDOME® cannot be held responsible for the impact of such maneuvers.

2. Implementation of PYROTOP® according to its support

- *Trimmer :P intermediary of self-drilling screws or rivets or others*
Bolts respecting a **maximum distance between 2 fasteners of 330 mm.**
- *Ribbed steel sheets:* Through self-drilling screws or rivets or others
Bolts respecting a **maximum distance between 2 fasteners of 330 mm.**
- *Masonry support:* Through adapted fastenings respecting a **center distance Maximum between 2 fasteners of 200 mm.**


The insulation that may be present on the DENFC includes a bituminous film designed to receive leakage readings directly.

3. Implementation of the PYROTOP® in enhanced version

The distance requirements described above are identical for the raised version subject to installation on a suitable existing support, namely: en steel, concrete, wood, or any other material that has already passed the thermal deformation test described in the PEU (Unified Test Procedure) smoke extraction outlets (example: le polyester reinforced with glass fibers).

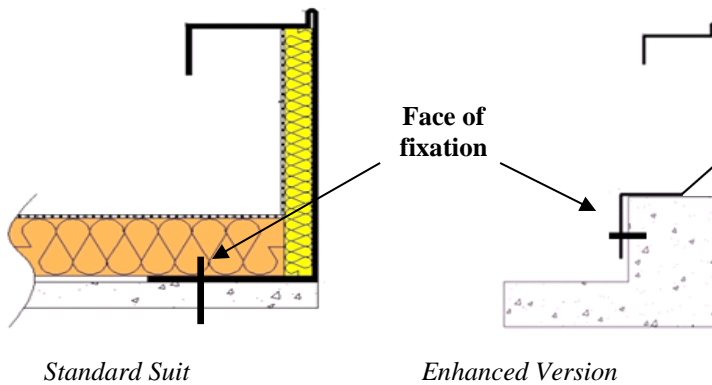
The geometric surface (A_v) of the existing support costing must be greater than or equal to the geometric surface of the capping cost.

The smoke extraction DENFC must be fixed and sealed according to the requirements defined in the waterproofing D.T.U. (Unified Technical Document) in force.

Page 8 on 10	Ref: NIE-053-6 Pyrotop Updated: 02/08/2022	SKYDOME Factory Entre-deux-Villes 02270 Sounds-and-Ronchères Phone : 03 23 21 79 90	
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4. Schematics for fixing an apparatus according to its version



Any other places for the attachment may cause water leakage.

5. Assembly and connection

The device comes with all pre-connections made at the factory.

For the connection of the DENFC and its options to the trigger device: refer to the texts and standards in force.

The thermal fuse used is a eutectic alloy thermal trigger. It allows the automatic opening of the evacuation device in the event of a rise in the temperature at roof level, the trigger temperature of choice from 63° to 189°.

7. Instructions for use

- Once the appliance is mounted and the cable connected, cut the steel wire that holds the opening.
- For putting into service, carry out one or more tests(s) to verify the proper functioning of the apparatus.



8. Maintenance instructions

Please note: our devices are not warranted for an exhibition that may alter the initial characteristics of an element or function of the DENFC.

The operation, maintenance and periodic verification operations will be carried out according to the requirements of the texts and standards in force as well as the following SKYDOME® requirements:

- Proceed at least 2 times a year to the opening/closing in a safe position of the DENFC.
- Verification operations:
 - Check the condition of the joints, hinges and the stem of the oleopneumatic cylinders. It is important to keep these elements lubricated (grease, oil), except the rod of the cylinders.
 - Control the tightening of the screwed elements.
 - When the stem of an oleo pneumatic cylinder is scratched, deformed or if there are leaks, replace it.
 - Do not clean the cylinder stem with a solvent, as it can damage the joints.
 - Do not paint the stem of the cylinder.
- DENFC verification operations must be carried out at least 1 time per year by an authorized company.

9. Replacement

All components of the device are available on request from SKYDOME.®

10. Additional information about options:

For devices equipped with the factory-mounted ladder hanging bar:


- Ø35 tube for ladder support equipped with 50 mm opening hooks.

The ladder should not be suspended from the ladder hanger bar.

11. Note

Devices equipped with a position switch are exempt from NF certification.

In accordance with the Labor Code, project owners and companies have an obligation not to endanger staff circulating on roofs

Page 10 on 10	Ref: NIE-053-6 Pyrotop Updated: 02/08/2022	SKYDOME Factory Entre-deux-Villes 02270 Sounds-and-Ronchères Phone : 03 23 21 79 90	
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