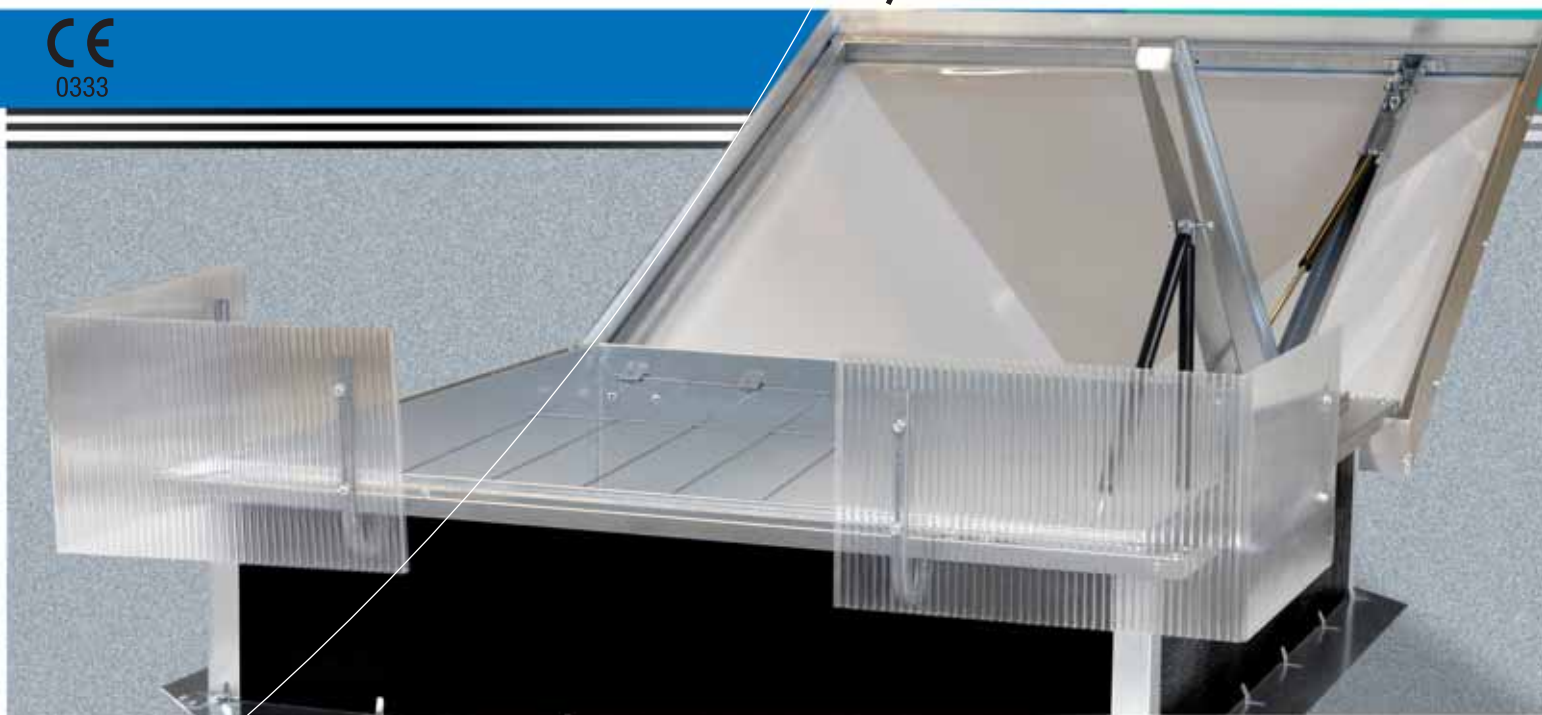




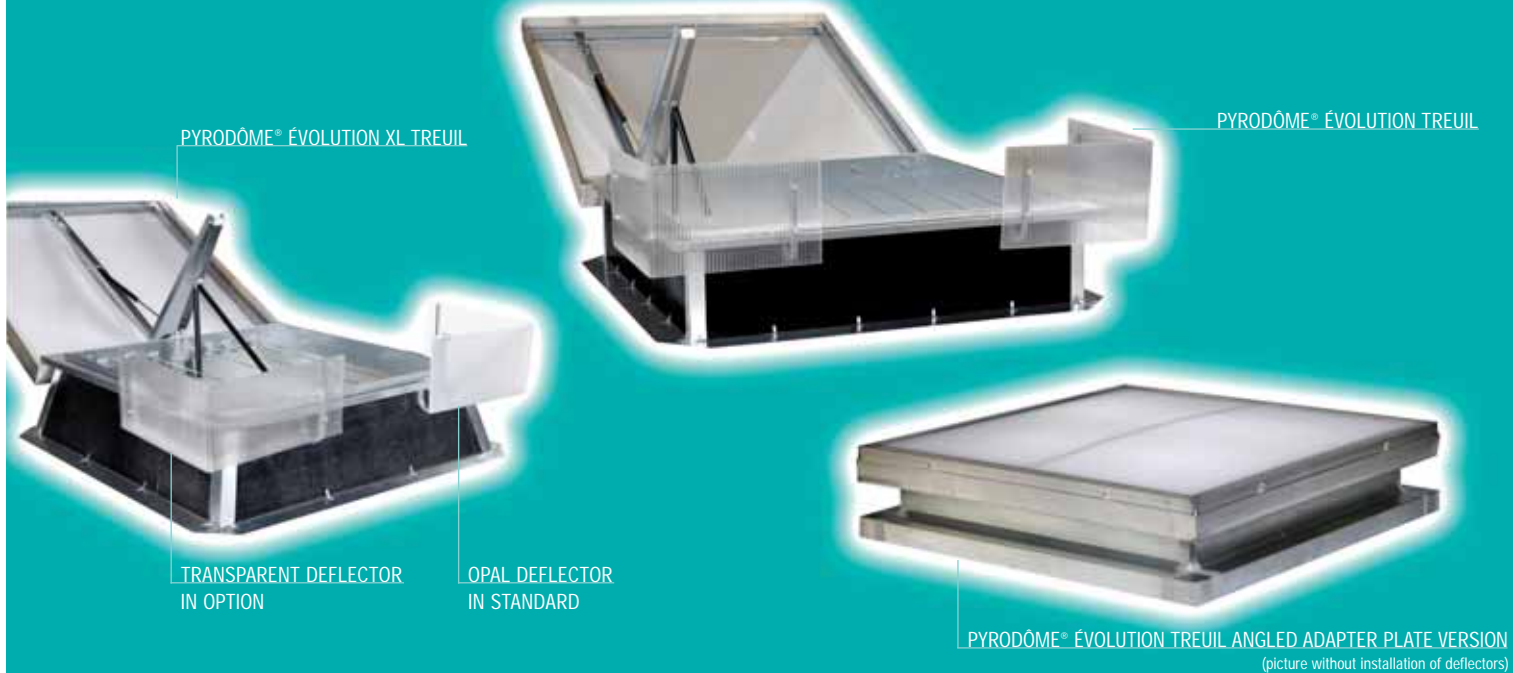
SMOKE EVACUATION / DAYLIGHTING / NATURAL VENTILATION

PYRODÔME[®] ÉVOLUTION / ÉVOLUTION XL TREUIL

CE
0333



SKYDÔME[®]
La sécurité en toute clarté



PYRODÔME® ÉVOLUTION XL TREUIL

PYRODÔME® ÉVOLUTION TREUIL

TRANSPARENT DEFLECTOR
IN OPTION

OPAL DEFLECTOR
IN STANDARD

PYRODÔME® ÉVOLUTION TREUIL ANGLED ADAPTER PLATE VERSION
(picture without installation of deflectors)

The PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL Cable Operated Unit is principally designed for smoke and heat evacuation and for the natural ventilation on a roof. It is used on flat and low slope roofs and on tiled or slate pitched roofs for all types of natural smoke evacuation, e.g.: public access buildings, industrial buildings, stairwells, commercial buildings, offices, etc.

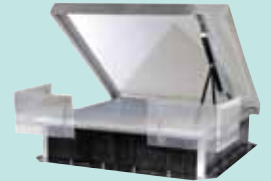
The PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL Cable Operated Unit is used to best effect in installations comprising a small number of units of limited size (see dimensions on the Product Range table). For smoke evacuation in large buildings we recommend a pneumatic solution, such as PYRODÔME® ÉVOLUTION / ÉVOLUTION XL PNEUMATIQUE or PYROCLAIR® ÉVOLUTION PNEUMATIQUE.

SMOKE EVACUATION / DAYLIGHTING / NATURAL VENTILATION

PYRODÔME®



ÉVOLUTION / ÉVOLUTION XL TREUIL



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ADVANTAGES

Integrated mechanisms: the opening and closing mechanisms of PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL Cable Operated Unit are completely contained within the height of the kerb in both the open and closed position. This means that they do not impede the passage of other networks or the use of other equipments under the ceiling.

For opening dimensions **100 x 100** and **120 x 120** the integrated mechanisms of PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL is fixed on the side allowing easy roof access.

High resistance to corrosion: The galvanised steel kerb is assembled by crimping techniques. This method of assembly, used in the car industry, avoids the use of welding techniques which require subsequent reconditioning to achieve a level of protection equal to galvanisation. This means that the PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL has an excellent resistance to weathering and corrosion, even when scratched.

Colour finish: the PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL is available in galvanised steel or, upon request, in steel and pre-coated in CLASSIC WHITE SKYDOME® colour. They can also be painted after manufacture in one of the main RAL colours.

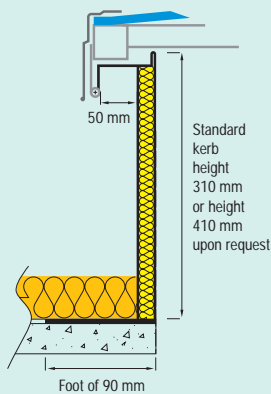
The PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL is an architectural feature of the roof.



NEW

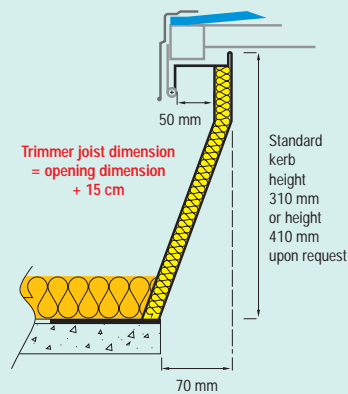
PYRODÔME® ÉVOLUTION TREUIL

Height: 310 mm



PYRODÔME® ÉVOLUTION XL TREUIL

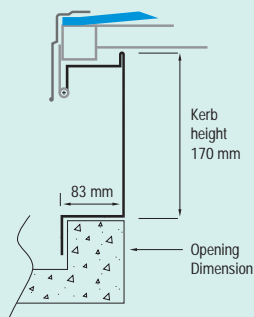
Height: 310 mm



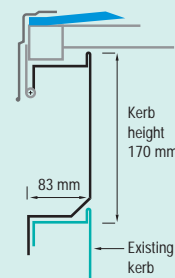
RENOVATION

ADAPTER PLATE
PYRODÔME® ÉVOLUTION TREUIL

Height: 170 mm

ADAPTER PLATE
PYRODÔME® ÉVOLUTION TREUIL

Angled kerb - Height: 170 mm



The PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL is made up of the following elements:

- **A galvanised steel kerb**, this is the main component of the unit. It carries the opening section and the mechanical and gas strut opening system. The kerb of PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL is fitted with a pulley as standard.

The straight sided kerb is covered on the outside by bitumen-surfaced thermal insulation designed to accept torch-on waterproofing membranes. In the Adapter Plate version, we can quote as option an insulation for the kerb.

- **A tubular opening frame in galvanised steel**: The opening frame is equipped with a thermal fuse as standard, to which is connected the steel cable link.
- **Glazing**: 10 mm structured opalescent polycarbonate or double dome as standard version. As option, structured polycarbonate 10 and 16 mm, PCA triple- or quadruple-walled for a better thermal resistance, anti-UV treated PCA or aluminium cover. **Only the grill option guarantees the "1200 joules" test**. To choose the type of glazing required, see the table entitled "Glazing - Performance". The positioning of the glazing and the design of our units reduce the build-up of condensation as air circulates between the frame and the kerb.
- **Aluminium beading frame**: This holds the glazing in place and protects edges from lateral impacts. It also improves the aesthetic appeal of the PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL.

In the case of fire, the thermo fusible link and/or the emergency release of the winch causes the **PYRODÔME® ÉVOLUTION/ÉVOLUTION XL TREUIL** to open in accordance with the type of control used. The force necessary to open the unit is supplied by a mechanical system held under pressure in the closed position. This system allows the unit to open to 155°.

If the unit is opened (apart from melting of the fuse), the unit can and must be closed again from the ground, using a winch. The **PYRODÔME® ÉVOLUTION/ÉVOLUTION XL TREUIL** offers as well a daily ventilation, by handling the control winch.

The thermal fuse is imposed by the norm NF EN12101-2 on all units, apart of specific restrictions: (contact us).

GLAZING	THERMAL TRANSMISSION U (W/m ² °C)	LIGHT TRANSMISSION (%)	FIRE CLASSIFICATION*	ACOUSTIC (db (A))
Double Domes PMMA (Polymetacrylate methyle)	3,1	76	Tests in progress (M4)	19
10 mm structured polycarbonate - Clear	3,1	85	Bs1do	17
10 mm structured polycarbonate - Opal	3,1	62	Bs1do	17
10 mm structured polycarbonate - 4-walled Opal	2,5	55	Bs1do	17
16 mm structured polycarbonate - Opal	2,3	57	Bs1do	21
Aluminium cover 10	3,1	0	Tests in progress (M0)	17
Aluminium cover 20	0,98	0	Tests in progress (M0)	-
Aluminium cover 60	0,6	0	Tests in progress (M0)	24

For other types of glazing: see the datasheet on Optional Functions

* Euroclass Classification

() Former Fire classification

OPENING cm x cm	Av (GEOMETRIC SURFACE) in m ²		Aa (OPENING SURFACE) Straight kerb HT 310 mm in m ²		Aa (OPENING SURFACE) Adapter plate version HT 170 mm in m ²	
	Évolution	Évolution XL	Évolution	Évolution XL	Straight Profile	Angled Profile
100 x 100*	1.00	1.30	0.68	0.87	0.63	0.68
120 x 120*	1.44	1.80	0.96	1.20	0.91	0.97
140 x 140	1.96	2.37	1.28	1.60	1.22	1.3
150 x 150	2.25	2.69	1.45	1.82	1.40	1.48
160 x 160	2.56	3.03	1.63	2.05	1.59	1.67
100 x 150	1.50	1.87	1.00	1.25	0.94	1.01
100 x 200	2.00	2.44	1.33	1.64	1.25	1.33
120 x 200	2.40	2.87	1.59	1.95	1.49	1.57
140 x 200	2.80	3.30	1.85	2.24	1.74	1.83

* Side fixed mechanism - Value with installed deflectors

Attention: no XL products for adapter plate version

Laboratory tests guarantee that the **PYRODÔME® ÉVOLUTION/ÉVOLUTION XL TREUIL** resistance and performance levels conform to the most stringent current regulatory standards when installed in accordance with current regulation DTU 43-3.

The **PYRODÔME® ÉVOLUTION/ÉVOLUTION XL TREUIL** has the Product Certification CE NF EN 12101-2 N°0333 CPD219 016 with all our glazings (see table), including with the safety options:

- Position contacts.
- Fusible thermal release.

The conformity certifications of the norm NF EN 12101-2, 1200 joules and fire rating data are available on our website: www.skydome-axt.com under the heading "Espace Partenaires" (Partner Information).

LOADS kg/m ²	WIND LOADING (depression test)	RELIABILITY TEST	HEAT RESISTANCE
From 25 to 50 kg/m ² depending on the glazing	WL 1500	Re 300	B 300

In standard, the **PYRODOME® ÉVOLUTION / ÉVOLUTION XL** are of type B and T(00)

OPENING (mm)	PCA		DOUBLE DOME		ALU COVER	
	SL in kg/m ²	Mechanism	SL in kg/m ²	Mechanism	SL in kg/m ²	Mechanism
100 x 100	50	Side	50	Side	50	Side
120 x 120	50	Side	25	Side	25	Side
140 x 140	25	Centre	25	Centre	25	Centre
150 x 150	25	Centre	25	Centre	25	Centre
160 x 160	25	Centre	–	–	–	–
100 x 150	25	Centre	25	Centre	25	Centre
100 x 200	25	Centre	25	Centre	25	Centre
120 x 200	25	Centre	25	Centre	25	Centre
140 x 200	25	Centre	25	Centre	25	Centre

In standard, the **PYRODOME® ÉVOLUTION / ÉVOLUTION XL** are SL25

Reminder IT 246: Article 3.8 Characteristics of smoke evacuation units

“The smoke evacuation units of reliability class **Re 300** (300 cycles of security process).

The bi-function units, used for ventilation, are opened 10 000 times during the ventilation tests.

The classification of the snow load is **SL 250** (25 daN/m²) for altitudes lower or equal to 400 m,

SL 500 (50 daN/m²) for altitudes over 400 m...

The units are inside temperature class **T00** (0°C) and heat resistance class **B₃₀₀ 30** (300° during 30’).”

- Steel kerb pre-painted in Classic White SKYDÔME®
- Steel kerb painted after manufacture in one of the main RAL colours
- Grill tested to 1200 joules
- Opening grill tested to 1200 joules (for dimensions 100x100 and 120x120 only)
- Painted grill tested to 1200 joules
- Opening painted grill tested to 1200 joules (for dimensions 100x100 and 120x120 only)
- Position contacts
- Domes 1200 joules
- Domes, pyramid domes
- PCA 10 black, PCA 16, etc
- Aluminium cover 10-20-60
- Ladder attachment bar (B.A.E.)
- Grab handle
- Technical solution for roofs with PVC waterproofing

Options for adapter plates:

- Insulation
- Lengths of foot can be from 80 to 180 mm



Installation should be carried out in accordance with current regulations. Decks should be sound and resistant and should conform to the requirements of current decking standards and of the installation guide.

Maintenance: The installation must have a maintenance at regular intervals and a preventive maintenance check should be scheduled for at least once a year (refer to current regulations for the type of building).

The installation notice of **PYRODÔME® ÉVOLUTION / ÉVOLUTION XL TREUIL** is available on our website: www.skydome-axt.com under the heading “Espace Partenaires” (Partner information).

- Certified **NF** winch kit with mechanical release - ref. XKT 101
- Certified **NF** winch kit with pneumatic release - ref. XKT 102
- Certified **NF** winch kit with electromagnetic release (24 volts emitting/breaking or 48 volts emitting/breaking) ref. XKT 103
- Certified **NF** winch kit with electropneumatic release - ref. XKT 104

The connecting line (steel cable) must not be longer than:

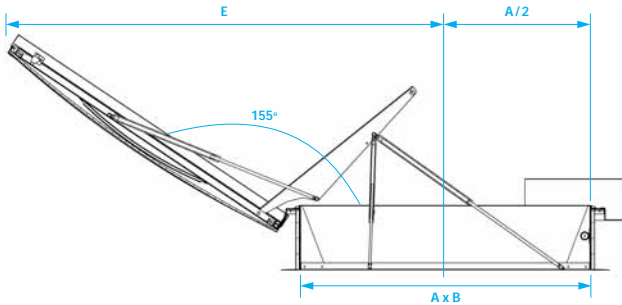
- 15 m if it is installed in one place only and if its connection is visible from the ground.
- 8 m in other cases.

The maximum number of returns (return pulley) authorised per connecting line is four.

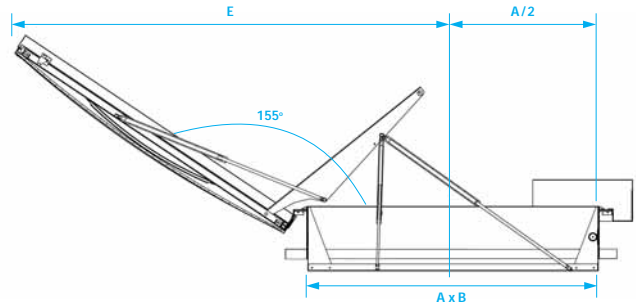
DIMENSION OF OPENING A x B* (cm)	DIMENSION OF OPENING XL C x D* (cm)	E (cm)	H (cm)		H1 (cm)		Weight with grill (kg)	
			in DD	in PCA	in DD	in PCA	in DD	in PCA
100 x 100	114 x 114	165	55	41	41	27	64	59
120 x 120	134 x 134	195	57	41	43	27	78	71
140 x 140	154 x 154	220	60	41	46	27	92	81
150 x 150	164 x 164	235	65	41	51	27	103	88
160 x 160	174 x 174	250	-	41	-	27	-	91
100 x 150	114 x 164	165	67	41	55	27	81	74
100 x 200	114 x 214	165	55	41	41	27	94	81
120 x 200	134 x 214	195	55	41	41	27	108	87
140 x 200	154 x 214	220	63	41	49	27	118	99

*B and D are the longest, hinged sides of the unit

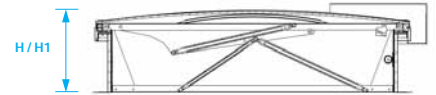
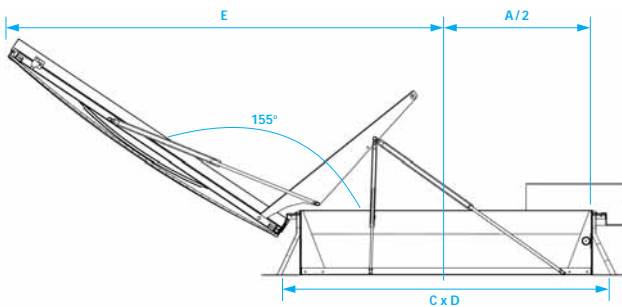
PYRODÔME® ÉVOLUTION TREUIL



ADAPTER PLATE PYRODÔME® ÉVOLUTION TREUIL



PYRODÔME® ÉVOLUTION XL TREUIL



H1: height of adapter plate