



NATURAL DAYLIGHTING

ROOFDÔME®



SKYDÔME®
La sécurité en toute clarté



ROOFDÔME® is a unit only destined for natural daylighting. It is used on sheeted and insulated roof on all types of buildings:

- Public access buildings
- Industrial buildings
- Commercial buildings, offices
- Residential buildings

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1

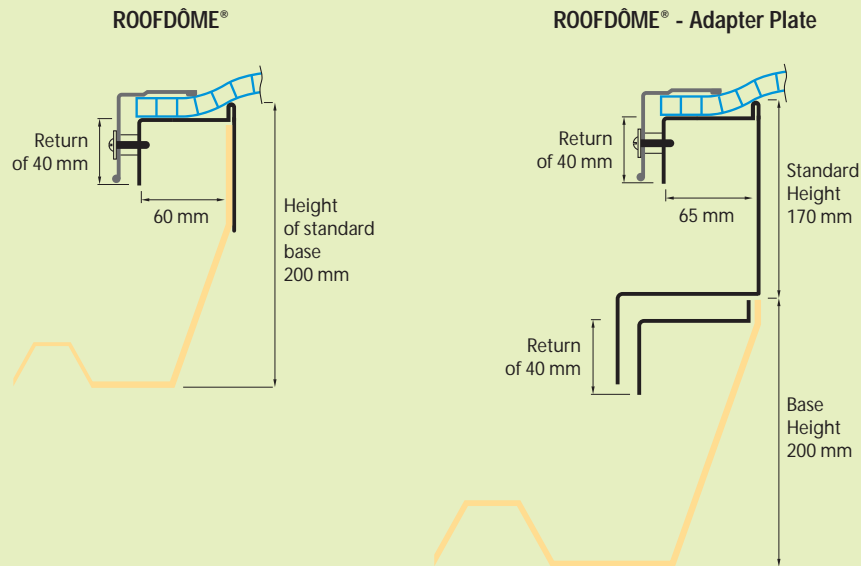
ADVANTAGES

ROOFDÔME® is fully pre-assembled in the factory, allowing speedy and reliable installation on the roof.

A wide range of polyester bases: **SKYDÔME®** has moulds for bases adapted to the main sheeted roof profiles present on the market. **ROOFDÔME®** is assembled on the polyester base. The dimensions and references list of the bases, adapted to each profile, is summarized in the "Bases" brochures.

Colour finish: as an option, **ROOFDÔME®** can be delivered on a painted base in one of the main RAL colours.





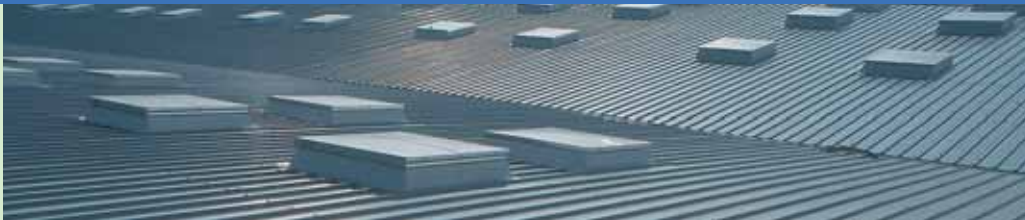
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COMPOSITION

ROOFDÔME® can be made of:

- **Base + box:**

- A polyester **base** conform to the norm NFP 37.417, with an angled kerb height of 310 mm. The top part of the base is composed of a 60 mm part allowing the rain water evacuation.
- A **box** in galvanised steel sheet fixed on the polyester unit.



or

- **Base + adapter plate:**

- A polyester base conform to the norm NFP 37.417, with an angled kerb height 200 mm. The top part of the base is composed of a 76 mm part allowing the rain water evacuation. It also has a galvanised steel edge on which the adapter plate is installed and fixed.
- A **SKYDÔME®** or **SKYCLAIR®** adapter plate described in the "**SKYDÔME®** or **SKYCLAIR®** brochure".

The two parts version can be proposed in case of difficulties of handling the units on the roof or of the availability of a mould.

- **Glazing:** As standard, 10 mm reinforced, structured opalescent polycarbonate sheet (PCA), tested to 1200 joules. Following options are also available: double dome PMMA, reinforced double domes (1200 joules), 10 and 16 mm polycarbonate, triple- or quadruple-walled structured polycarbonate sheet for better thermal resistance. Single or pyramid dome upon request. All PCA glazing has anti-U.V. treatment. To choose the type of glazing required, see the table entitled "Glazing - Performance". The positioning of the glazing and the design of the units reduces the build-up of condensation as air circulates.

- **Aluminium beading frame:** fixed by stainless steel screws and nylon washers. This holds the glazing in place and protects edges from lateral impact. It also improves the aesthetic appeal of the **ROOFDÔME®**.

TYPE OF GLAZING	THERMAL TRANSMISSION U (W/m ² °C)	LIGHT TRANSMISSION (%)	FIRE CLASSIFICATION	ACOUSTIC (db (A))
Simple Dome PMMA (Polymetacrylate methyle) - Opal	5.2	82	M4	12
Double Domes PMMA (Polymetacrylate methyle)	3.1	76	M4	19
10 mm structured polycarbonate - Clear	3.1	85	M2	17
10 mm structured polycarbonate - Opal	3.1	62	M2	17
10 mm structured polycarbonate - Venitian	3.1	33	M2	17
10 mm structured polycarbonate - Comfort	3.1	55	M2	17
10 mm structured polycarbonate - 4-walled opal	2.5	55	M2	17
16 mm structured polycarbonate - Clear	2.3	79	M2	21
16 mm structured polycarbonate - Opal	2.3	57	M2	21
16 mm structured polycarbonate - K clear	2	72	M2	21
16 mm structured polycarbonate - K Opal	2	57	M2	21
16 mm structured polycarbonate - K Comfort	2	50	M2	21

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



ROOFDÔME® is guaranteed for ten years (when installed and used in accordance with our specifications).

ROOFDÔME® conforms to regulatory standards NFP 37-418 and NFP 37.417.

ROOFDÔME®, with its structured polycarbonate glazing, is approved by the CSTB Avis technique n° 2/03-1027.

Resistance to upward static load: 1000 pa (1000 N/m²).

Resistance to downward static load: 1500 pa (1500 N/m²).

Fire rating datas are available on our website: www.skydome-axt.com under the heading "EspacePartenaires".

- Grill tested to 1200 joules
- Painted grill tested to 1200 joules
- Permanent ventilation
- Domes 1200 joules
- Domes, pyramid domes
- Quadruple-walled PCA10, PCA16, etc.
- External base painted in one of the main RAL colours

Options for the base + adapter plate version:

- See **SKYDÔME®** and **SKYCLAIR®** brochure
- Adapter plate insulation



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. Maximum roof slope: 25°, i.e. 45%.

Fixing: in accordance to the current DTU standards and the norm NFP 37.417, the base is installed on a trimmerjoist. The base has to be fixed on wood, by screwing or bolting, on concrete, by pegging, and on steel by screwing.

Waterproofing seal:

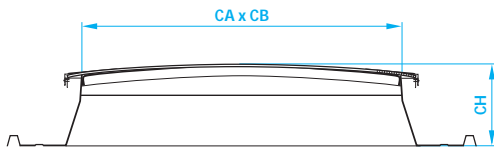
- Through a transverse installation under and above the existing roof, in accordance to the norm NFP 37.417.

Maintenance: Glazing must be washed with soapy water. Corrosive products or solvents must not be used.

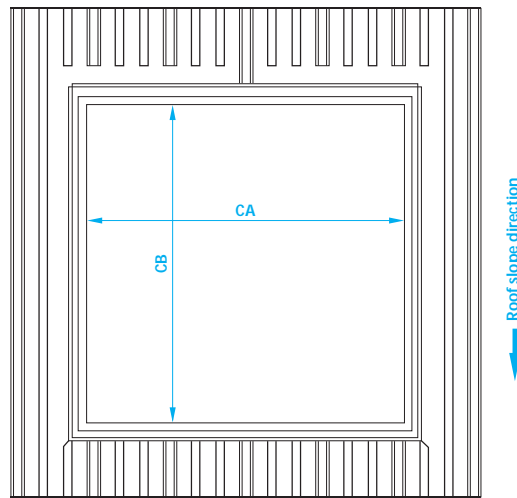
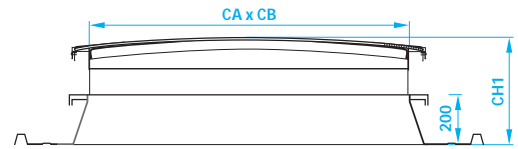
7 GEOMETRIC DIMENSIONS

DIMENSION OF ROOF OPENING A x B* (cm)	LIGHT TRANSMISSION SURFACE (m ²)	ROOFDÔME®			
		CH (cm)		CH1 (cm)	
		with domes	with PCA	with domes	with PCA
70 x 100	0.70	55	36	61	43
100 x 100	1.00	55	36	61	43
120 x 120	1.44	57	36	63	43
140 x 140	1.96	60	36	66	43
160 x 160	2.56	65	36	71	43
100 x 150	1.50	55	36	61	43
100 x 200	2.00	55	36	61	43

ROOFDÔME®



ROOFDÔME® ADAPTER PLATE



Ref.: Roofdôme® 03/2007 - The manufacturer reserves the right without prior notice to modify the composition of his products. Characteristics provided in this publication derive from data obtained under controlled test conditions. Axter makes no warranties, express or implied, as to the properties and performance under any variations from such conditions in actual construction. DUFOR COMMUNICATION

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SKYDÔME UNE ENTREPRISE DU DÉPARTEMENT DE L'AISNE



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