



**ORIGIN'**

# ARCADÔME®

## THE ADVANTAGES



### Aesthetics and integration:

The ARCADÔME® is available in low rise or semi-circle versions, depending on the glazing.



### Easy to install:

The full kit is delivered ready to assemble with simple tools and clear installation instructions. It includes the fasteners and all the seals.



## STRUCTURE

- Self-draining supporting profiles (hip or arch)
- Glazing bead profiles (cover joint fitted with EPDM seals)
- Metal edge profiles used to attach the hip or arch profiles, collect and drain away rainwater run-off and condensation in the lower part and hold the glazing in the lower part
  - Ridge for complete watertightness
  - Stainless steel fasteners



## GLAZING


(ACCORDING TO SIZE)

- 10 mm opal multi-wall structured polycarbonate,  $U_g = 2.7 \text{ W/m}^2\cdot\text{K}$

The **ARCADÔME®** is a daylighting dome composed of a curved extruded aluminium structure and a cold-bent synthetic glazing (polycarbonate).

## OPTIONS

### Glazing (according to dimensions)

- Opal IR S.PC 10
- Transparent S.PC 10
- S.PC 10 + 
- Opal IR S.PC 16
- Transparent S.PC 16

### Other

- Powder-coated frames (choice of RAL colours)
- Diameter (4.5 m maximum) + number of panels to be determined
- Low rise or semi-circle

## CONFORMITY AND IMPLEMENTATION

Fastening and sealing must comply with the requirements set out in French legislation (DTU) series 40 and 43 currently in force.

Maximum insulation height: the minimum height of the waterproofing upstand to comply with according to French legislation (DTU) is 150 mm.

The waterproofing complex (substrate, vapour barrier, insulation and two-layer sealing) cannot be more than 140 mm for an inner kerb height of 310 mm or more than 240 mm for an inner kerb height of 410 mm.



## — SIZE RANGE

- Dimensions: diameter from 2.00 lm to 5.00 lm
- 45° or 90° pitch

## — GLAZING PERFORMANCES (ACCORDING TO SIZE)

Other glazing: see "Glazing" technical data sheet

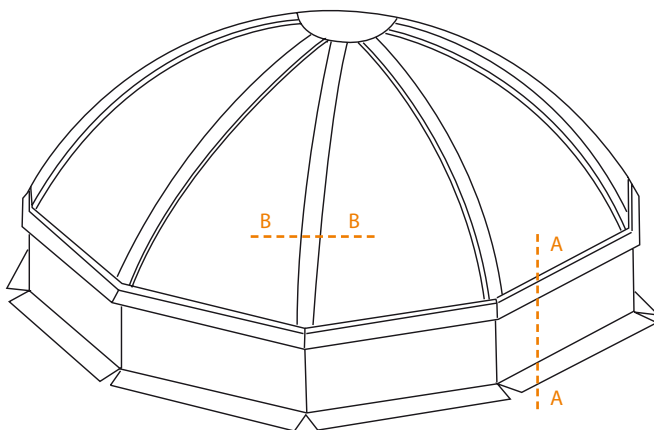
Types of glazing	Heat transfer coefficient Ug (W/m <sup>2</sup> .K)		TL D65 <sup>(2)</sup>	FS or g <sup>(2)</sup>	Reaction to fire	$R_w$ $R_A = R_w + C$ $R_{A,tr} = R_w + C_{tr}$ (dB) <sup>(3)</sup>
	U <sub>hor</sub> <sup>(1)</sup>	U <sub>vert</sub> <sup>(1)</sup>				
<b>Opal 4-wall S.PC 10</b>	2.7	2.5	57%	60%	B,s1,d0	R <sub>w</sub> =17 dB
<b>S.PC 10 with transparent Lumira™ Aerogel</b>	1.93	ND	71%	66%	B,s1,d0	ND
<b>Opal multi-wall S.PC 16</b>	2.0	1.8	54%	55%	B,s1,d0	R <sub>w</sub> =19 dB, R <sub>A</sub> =19 dB R <sub>A,tr</sub> =17 dB
<b>S.PC 16 with transparent Lumira™ Aerogel</b>	1.31	ND	67%	67%	B,s1,d0	R <sub>w</sub> =21 dB, R <sub>A</sub> =21 dB R <sub>A,tr</sub> =19 dB

<sup>(1)</sup> Relative to the horizontal, according to §2.3.1 of the Th-Bat. rules.

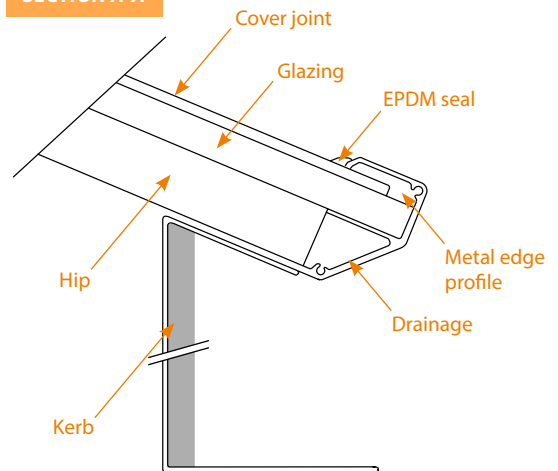
<sup>(2)</sup> Regular light transmission factor TL D65 and total solar transmission factor FS (TST or g) according to EN 410.

<sup>(3)</sup> Glazing insulation to airborne noise R<sub>w</sub>, pink noise R<sub>A</sub> (neighbourhood, airport and industrial activities) and road noise R<sub>A,tr</sub> measured in the laboratory according to NF EN ISO 140.

## — TECHNICAL DIAGRAMS



SECTION A-A



SECTION B-B

