



# plus skylight dome Data sheet

For industrial and administration buildings with  
increased requirements



Daylighting Solutions  
Natural Ventilation Solutions  
Smoke Management Solutions  
Service & Maintenance  
Building Automation

# Application

With its thermally separated profile system, the plus skylight dome offers optimised performance in terms of energy efficiency and airtightness making it the perfect choice for industrial and administration buildings with more stringent requirements.

## Application areas

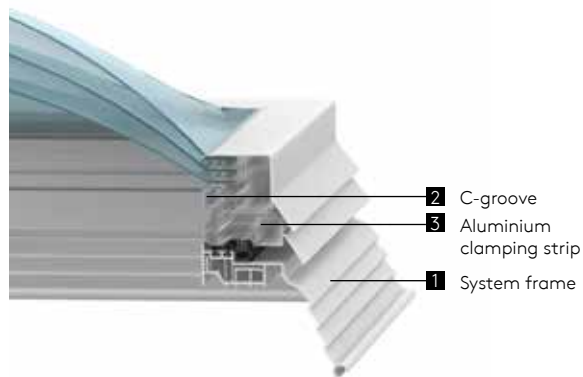
- industrial flat roofs with a maximum roof pitch up to 25°
- administration buildings
- heated industrial units
- new builds and energy-optimising renovation projects

## Material

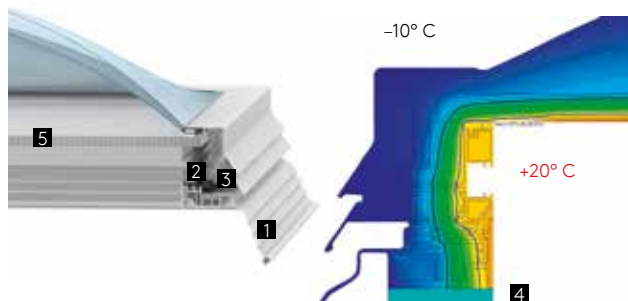
- high-quality acrylic glazing
- aluminium thermally separated border frame

## Features and benefits

- reduced heating costs due to highly efficient overall design
- high light transmission reduces electricity costs
- reduced CO<sub>2</sub> emissions due to high energy efficiency
- high rigidity and long service life due to aluminium clamping strip
- superb seal due to triple sealing
- lower mass compared to solutions with ISO glass
- system frame as standard (see 1.7.2)
- simple, flexible retrofitting for accessories (e.g. linear ventilation drive) due to fixing options with all-round C-groove
- available as type PC-st with 16 mm PC web plate



Cross section of skylight dome with 3 acrylic skins



Left: Cross section of plus skylight dome PC-st with 16 mm PC web plate and 2 acrylic skins

Right: Isothermal diagram for plus skylight dome PC-st with 2 skins

- 1 System frame for easy mounting to protect the roof sheeting
- 2 C-groove for flexible mounting of ventilation units and accessories
- 3 High warp-resistance due to aluminium clamping strip
- 4 The smooth isothermal diagram demonstrates the component's energy efficiency which also means there is a low risk of condensation and mould
- 5 PC plate for improved light distribution and lower heat loss (plus skylight dome PC-st variant)

# Technical specifications

Technical specifications	plus skylight dome, 3-skinned	plus skylight dome PC-st 16/7 with 1 acrylic skin	plus skylight dome PC-st 16/7 with 2 acrylic skins	plus skylight dome PC-st 16/3 with Aerogel filling and 2 acrylic skins
$U_t$ value	1.9 W/(m <sup>2</sup> K) <sup>1)</sup>	1.4 W/(m <sup>2</sup> K) <sup>1)</sup>	1.1 W/(m <sup>2</sup> K) <sup>1)</sup>	0.9 W/(m <sup>2</sup> K) <sup>1)</sup>
Light transmission	43 %	52 %	44 %	54 %
g value	49 %	55 %	46 %	45 %
Soundproofing quality $R_{wp}$	22 dB <sup>2)</sup>	22 dB <sup>2)</sup>	≥ 22 dB <sup>2)</sup>	≥ 22 dB <sup>2)</sup>

Standard glazing, opal, with fire behaviour class E (EN 13501) . B-s1,d0 glazing can also be provided.

Other glazing options (impact resistant, fire-resistant, transparent, or heat and soundproof glazing) available on request.

Size L x W [cm]	Incident light surface [m <sup>2</sup> ]	Size L x W [cm]	Incident light surface [m <sup>2</sup> ]
50 x 100	0.24	120 x 150	1.30
50 x 150	0.39	120 x 150	1.30
60 x 60	0.16	120 x 180	1.60
60 x 90	0.28	120 x 240	2.20
60 x 120	0.40	120 x 180	1.60
62,5 x 150	0.55	120 x 240	2.20
70 x 137	0.59	125 x 125	1.10
70 x 141	0.61	125 x 250	2.42
80 x 80	0.36	141 x 231	2.55
90 x 90	0.49	150 x 150	1.69
90 x 120	0.70	150 x 180	2.08
100 x 100	0.64	150 x 210	2.47
100 x 150	1.04	150 x 240	2.86
100 x 200	1.44	150 x 250	2.99
100 x 250	1.84	180 x 180	2.56
120 x 120	1.00		

Other dimensions available on request

<sup>1)</sup> Calculated using Eurolux 010 for horizontal installation

<sup>2)</sup> Verified in accordance with EN 1873

<sup>3)</sup> These product variants are categorised as "energy-efficient"

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## INTERNATIONAL

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As at 07/2019; item no. 11000781466  
Subject to technical alterations.  
Illustrations are not binding.

