SKYLIGHTS



TECHNICAL FILE

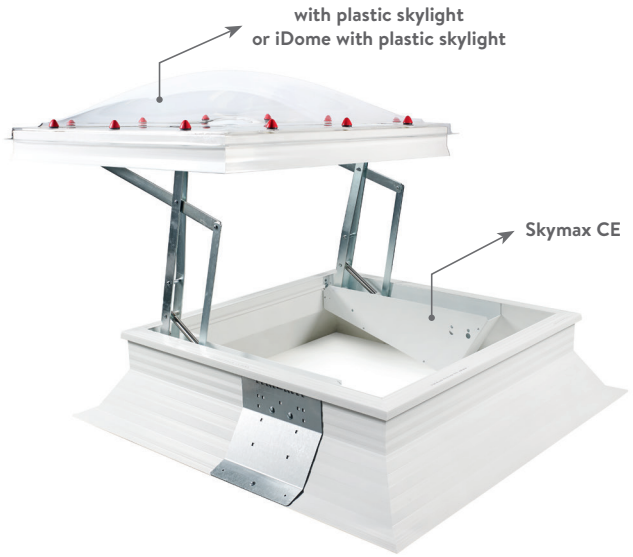
Skymax® CE

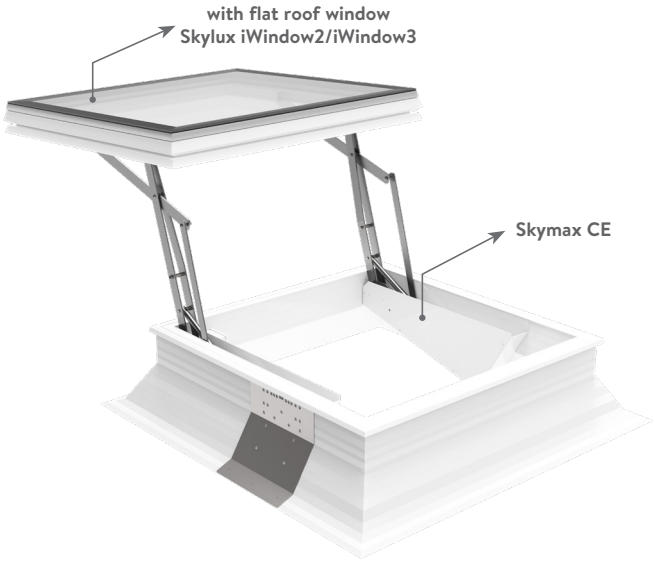
Smoke and Heat Extraction system for staircases

Conformity with NBN S21-208-3

SKYLUX®
Hello daylight!

01-09-2021





General product description

The Skymax® CE dome exists of:

- A synthetic Skylux® dome* in acrylic or polycarbonate, composed according to the Skylux® specifications or a Skylux® iWindow2 or iWindow3 glass dome (see price list for available sizes)
- A curb in PVC (type 16/00, 20/00 EP or 30/20) or metal (type M30, M40, ...), which is part of the CE agreement of the SHEV system (see page 3) (PVC 16/00: only with a plastic skylight)
- A PVC frame (standard ST) for the synthetic dome or with a PVC frame with glass or an EP25 sheet (for Skylux® iDome hybrid dome), which is part of the CE certification (for Skymax iDome, maximum double-walled skylight, depending on the snow load)
- External support sheets with accessories for PVC curbs
- An opening system with two 24 Volt actuators

Complementary:

- One central detection unit type Skycom® Skymax CE
- A priority switch

Advantages

- Free access to the roof
- Exceptional insulation (U_t** value up to 0.50 W/m².K)
- Air permeability class 2 according to EN 1873:2014+A1:2016
- RW value up to 40 dB, in case of a Skylux iDome or Skylux iWindow2 or iWindow3
- 100 % thermal break
- Skylux® quick-mount concept
- Easy installation
- CE approved according to EN 12101-2
- According to NBN S21-208-3

** Skylux® domes have a CE agreement according to EN 1873:2014+A1:2016*
*** U_t: U (transparant) or insulation value of the Skylux® dome according to EN 1873:2014+A1:2016, determined in accordance with EN 673*

CE specifications according to EN 12101-2 for Skymax® CE

Time until full opening	< 60 sec
Min. functioning temperature (°C)	-15 °C
Heat resistance (°C)	B300
Snow load (N/m²)	SL 300 to SL 900
Wind load (N/m²)	WL 1500
Reliability class SHE	Re 1000
Durability	Re 10.000
Maximum slope	10°

** always ask for the aerodynamic coefficient determined by lateral wind*
*** see technical table in addendum, for possible snow loads*

Product description actuator

The Skymax® CE is a dome for smoke and heat extraction equipped with a daily ventilation function and roof access. On alarm, the dome fully opens diagonally away from the upstand (see pict.) The two actuators are equipped with an electric final course, which states the maximum course of the actuator on opening and closing. For rectangular domes, the actuators and the opening system are fixed on the long sides. The Skymax® CE opens on the long sides.

Specific characteristics opening mechanism

Tension	24 V DC - 48 V DC
Current	nominal 5 A (per system) at 24 V
Opening angle	entirely (180°)
Final course	electronic
Density	IP 54
Certification	CE volgens EN 12101-2
Execution mechanism	galvanised
Execution housing	powder-coated white





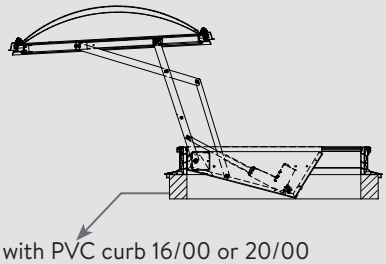
Product description central detection unit

The Skymax® CE is operated by a Skycom® Skymax CE central detection unit and a built-in heat detector (75°C). This detection unit is equipped with several connection possibilities. The detection unit has an autonomy of at least 72h with tension due the incorporated batteries. The central detection unit must be equipped with a priority switch to operate the SHE system in case of emergency.

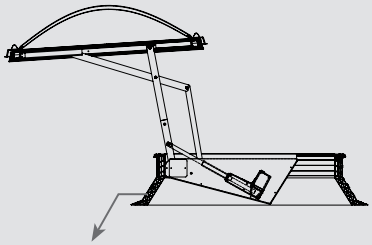
Remark

To avoid heat build-up under the transparent skylight (plastic, hybrid, glass) and therefore possible deformation or damage to the PVC curb, frame, skylight dome or electrical components, it is recommended that no closed surface (e.g. black closed attic hatch) is installed under the skylights. A reflective (e.g. white) surface and/or ventilation is recommended.

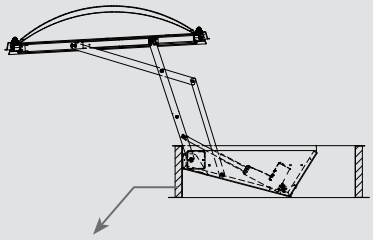
Curb combinations



with PVC curb 16/00 or 20/00
min 300 mm total height

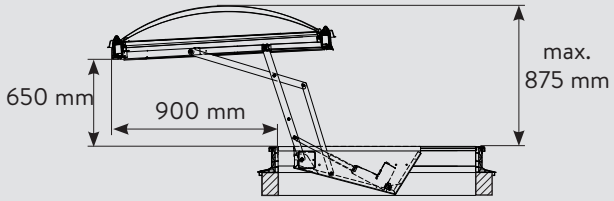


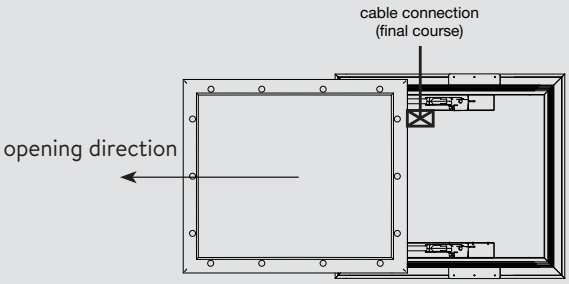
with PVC curb 30/20



with metal curb M30 or higher

Sizes and opening direction





Attestations, certificates and documentation

- Conformity with NBN S21-208-3
- CE of the Skylux® dome according to EN 1873:2014+A1:2016
- CE of the SHE system according to EN 12.101-2
- Attestation 1200 Joule fall through protection for armoured dome with polycarbonate shell, SB 1200 (EN 1873:2014+2016) for iDome with armoured dome, iWindow2, iWindow3
- Attestation for 72h autonomy with Skycom® Skymax CE central detection unit
- DoP via www.skylux.be
- Fall-through safety certificate DIN 18008-6 for Skylux iDome, Skylux iWindow2 or iWindow3, in combination with all Skylux PVC, polyester or metal curbs, for all sizes. Additionally, there is residual load-bearing capacity after breakage for sizes ≤ 120x120 cm and ≤ 100x300 cm in accordance with DIN 18008-6.

Fire classification

- Fire classification Skylux® domes
  Acrylic dome : Euroclass E (EN 13501-1)
  Polycarbonate dome : Euroclass B-s1, d0 (EN 13501-1)
- Fire classification PVC curbs : Euroclass E (EN 13501-1)

CE *Attention: the CE certification is only valid if the composition, execution and the installation regulations are respected. SKYLUX guarantees the CE conformity as described in the documentation and according the plant regulations of the appliances. Every variance, cancels the CE conformity.*

ONLY USE ORIGINAL PARTS DELIVERED BY SKYLUX. EVERY GUARANTEE IS CANCELLED IF NON-ORIGINAL PARTS ARE USED.
THE SHE DETECTION UNIT MUST BE USED WITH THE RIGHT SHE OPENING SYSTEM. THE USE OF NON-ORIGINAL SHE PARTS CAN LEAD TO DEFECTS OF THE SYSTEM.

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SKYLUX®
Hello daylight!