Skymax® CE
Smoke and Heat Extraction system for staircases
Conformity with NBN S21-208-3
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 or 30/20) or metal (type M30, M40, ...), which is part of the CE agreement of the SHEV system (see page 3)
- 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
- 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)
- RW value up to 40 dB
- 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time until full opening</td>
<td>&lt; 60 sec</td>
</tr>
<tr>
<td>Min. functioning temperature (°C)</td>
<td>-15 °C</td>
</tr>
<tr>
<td>Heat resistance (°C)</td>
<td>B300</td>
</tr>
<tr>
<td>Snow load (N/m²)</td>
<td>SL 300 to SL 900</td>
</tr>
<tr>
<td>Wind load (N/m²)</td>
<td>WL 1500</td>
</tr>
<tr>
<td>Reliability class SHE</td>
<td>Re 1000</td>
</tr>
<tr>
<td>Durability</td>
<td>Re 10.000</td>
</tr>
<tr>
<td>Maximum slope</td>
<td>10°</td>
</tr>
</tbody>
</table>

* always ask for the aerodynamic coefficient determined by lateral wind

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tension</td>
<td>24 V DC - 48 V DC</td>
</tr>
<tr>
<td>Current</td>
<td>nominal 5 A (per system) at 24 V</td>
</tr>
<tr>
<td>Opening angle</td>
<td>entirely (180°)</td>
</tr>
<tr>
<td>Final course</td>
<td>electronic</td>
</tr>
<tr>
<td>Density</td>
<td>IP 54</td>
</tr>
<tr>
<td>Certification</td>
<td>CE volgens EN 12101-2</td>
</tr>
<tr>
<td>Execution mechanism</td>
<td>galvanised</td>
</tr>
<tr>
<td>Execution housing</td>
<td>powder-coated white</td>
</tr>
</tbody>
</table>

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.
Curb combinations

- with PVC curb 16/00 min 300 mm total height
- with PVC curb 30/20
- with metal curb M30 or higher

Sizes and opening direction

- max. 875 mm opening direction

Attestations, certificates and documentation

- Conformity with NBN S21-208-3
- CE of the SHE system according to EN 12.101-2
- Attestation 1200 Joule fall through protection for armoured dome with polycarbonate shell
- Attestation for 72h autonomy with Skycom® Skymax CE central detection unit
- DoP via www.skylux.be

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)

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.