

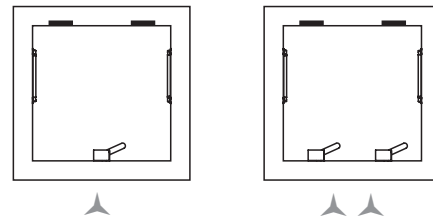


TECHNICAL FILE

# Skylux<sup>®</sup>

Manual roof access skylight





## General product description

The pre-assembled Skylux® roof access skylight provides access to the roof or the rooftop terrace. The manual roof access skylight is a complete unit consisting of a standard PVC frame with 2 gas pressure springs, a regulable handle and a Skylux® curb of your choice in PVC, metal or polyester. A Skylux® skylight of your choice must be added. You can also opt for a high PVC EP frame with Pergotop IP32 or IP89. This roof access is then finished with a single-walled skylight of your choice. The third option is a high PVC EP frame with flat roof window iWindow2 or iWindow3. Optionally, it can also be finished with a skylight of your choice (iDome glass with single-walled spherical skylight). These solutions are suited for roof access and ventilation.

To facilitate the mounting on site, a pre-assembled quick assembly system is foreseen. This is a pre-assembled entity, which consists of a curb and a PVC frame, completely pre-assembled at the manufacturers plant. 2 gas pressure springs are fixed on the frame and support the dome during its opening. The dome opens up to ca 75°. A handle provides the locking of the dome in closed position. A lockable handle with key can be ordered optionally.

The maximum size for a manual roof access is 100 x 200 cm.

## Versions

The manual roof access is completely pre-assembled and consists of:

- A curb of your choice: PVC, metal or polyester
- A standard PVC frame or a high PVC frame with Pergotop IP32 or IP89 or with glass
- Two gas pressure springs
- A regulable handle (one ▲ or two ▲ ▲, in function of the roof access size)
- Installation accessories
- Insulation ( $U_t$  value)
  - iWindow2:  $1 \text{ W/m}^2\text{K}$
  - iWindow3:  $0.5 \text{ W/m}^2\text{K}$
  - iDome glass with single-walled skylight :  $0,93 \text{ W/m}^2\text{K}$
  - High EP frame with Pergotop IP32 (white/white) with single-walled skylight:  $0,81 \text{ W/m}^2\text{K}$
  - High EP frame with Pergotop IP89 (white/white) with single-walled skylight:  $0,36 \text{ W/m}^2\text{K}$
  - Standard PVC frame with multi-walled plastic skylight: see  $U_t$  value of this plastic skylight

## Combined with

A Skylux® skylight of your choice (in case of Pergotop, only a single-walled skylight can be used). A Skylux plastic skylight is not necessary in combination with a flat roof window iWindow2 or 3.

## Specific characteristics of the PVC frame

Thermal characteristics .....	U <sub>e</sub> * value 1.50 W/m <sup>2</sup> K (normal PVC frame) U <sub>e</sub> * value 0.49 W/m <sup>2</sup> K (high PVC frame)
Sizes .....	thickness 3 mm
Impact resistance .....	> 7 kJ/m <sup>2</sup>
Hinge side .....	in function of the size and determined by the manufacturer

\* U<sub>e</sub> value U (edge profile) or insulation value of the frame according to EN 1873:2014+A1:2016 and determined with EN 10077-2:2012

## Specific characteristics of the gas pressure spring

Force .....	100 / 150 / 200 / 250 N, in function of the sizes
Number .....	two
Characteristic .....	with dynamic damping

## Opening force manual roof access

The necessary manual force to open a manual roof access skylight depends on the skylight's size and composition. Daylight size, number of dome walls, glass type, Pergotop ... are elements that influence the necessary force to open the skylight.

Depending on the accessibility of the skylight and the person who opens the skylight, this force will be considered as "light", "normal" or "heavy".

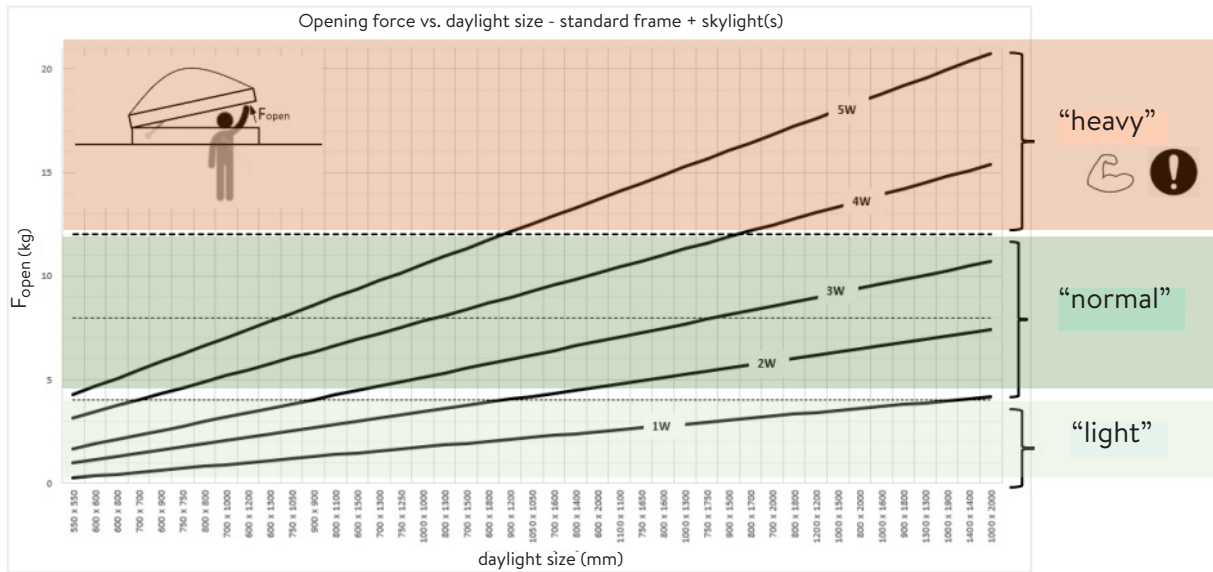
**As from an opening force of 12 kg, we consider the opening of the skylight to be "heavy", in which case we advise to install an electric roof access skylight.**

The graph below shows the initial (\*) force needed to open a closed skylight. 1W = single-walled skylight, 4W = 4-walled. In combination with a standard PVC frame.

(\*) The necessary force decreases as the skylight is opened. The skylight is in equilibrium when it reaches a certain opening angle.



Graph: standard PVC frame in combination with 1-, 2-, 3-, 4- or 5-walled skylight:



## Attestations, certificates and documentation

- See technical files of the separate Skylux® parts.

## 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.

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