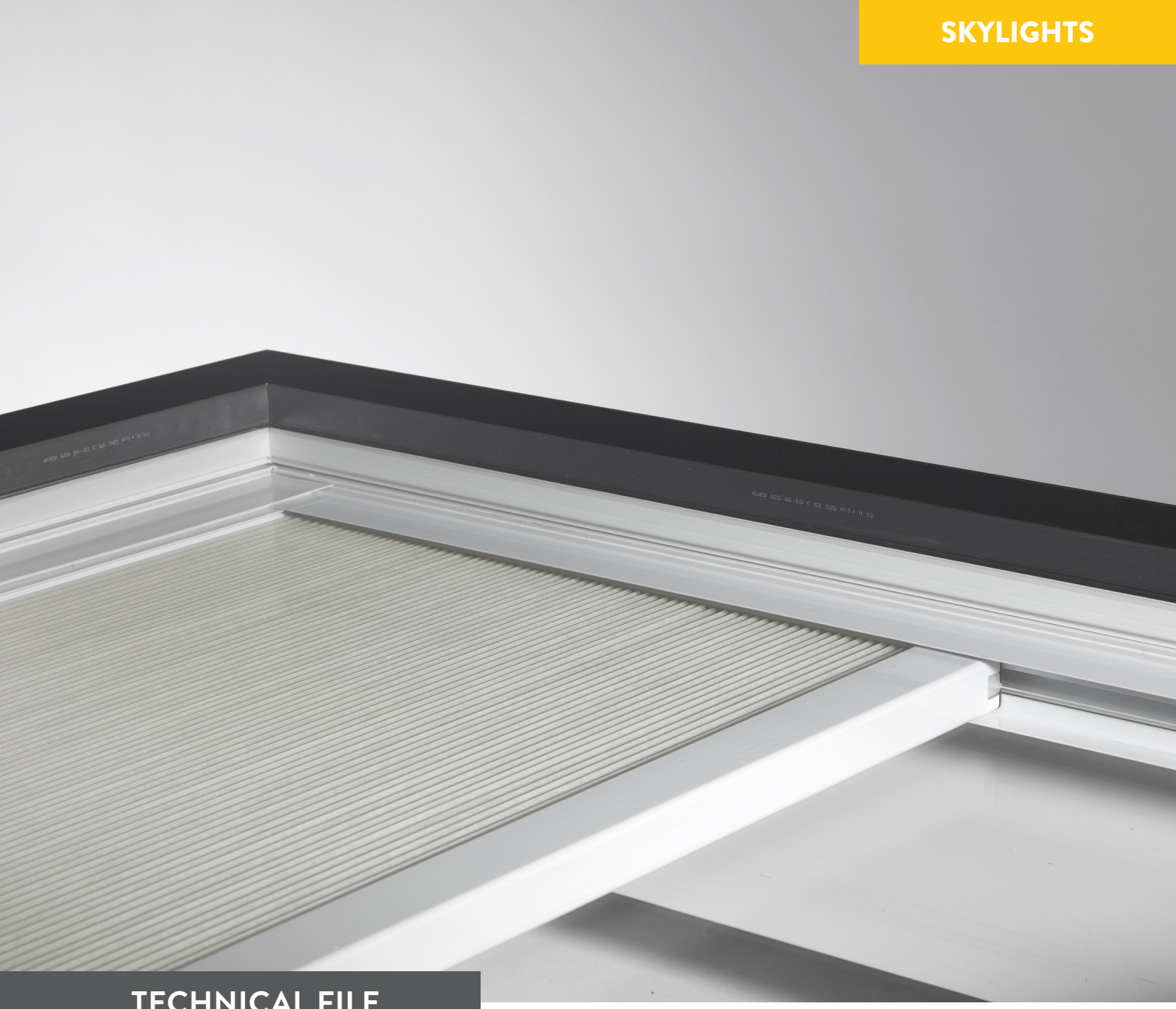


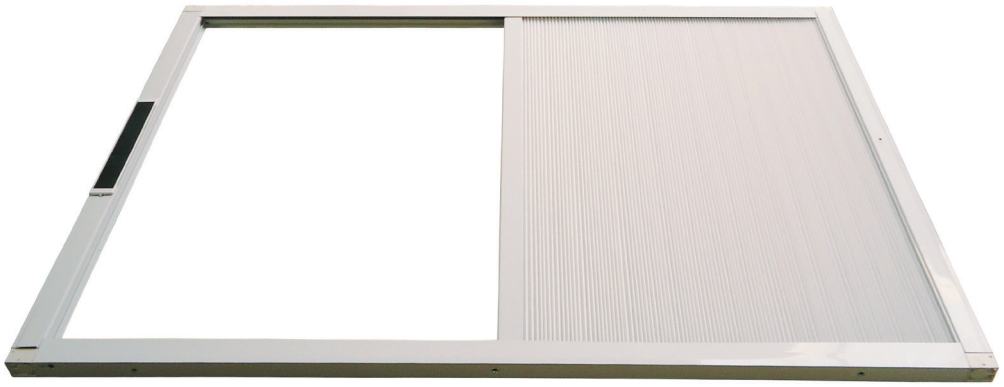
TECHNICAL FILE

Skylux®

Electric screen 230V / Solar

SKYLUX®
Hello daylight!

10-06-2021



General product description

The Skylux electric screen is available as an insect screen, a sunblind or a blackout blind for both fixed and openable flat roof windows.

In case of a fixed configuration, the screen can be installed in the daylight size of the curb. The system is controlled by a Bluetooth impulse switch. There's no need for extra cables between the switch and screen, enabling an easy installation of the screen.

In case of an openable configuration, the electric screen is already pre-mounted in the daylight size of the Skylux 20/00 curb. It comes with a remote control that also allows you to open/close the skylight and control the LED lighting.

Electric power supply

The electrically powered version is connected to the mains electricity supply. A 230 V power supply is therefore needed where the flat roof window or skylight will be installed.

If a 230 V power supply is not possible, the Solar version can be used instead.

Powered by solar panel

With the Solar version, the screen is powered by a solar panel and a battery pack which is hidden and built into the screen. A 230 V power supply is not necessary. The screen uses a natural energy source instead, namely solar energy.

The Skylux Solar Pack guarantees a quality solar cell and high-capacity battery. It's a simple plug and play system that generates plenty of energy - even with minimal light incidence - to cover normal actuator use for ventilation or operation of the screens. The Solar Pack is designed to open/close 3 times a day on average and more than 40 times a day with a fully charged battery.

You can also use a USB-C charger to easily charge the Solar Pack if the batteries are running low.

The electric screen on solar energy is not yet available in openable systems.

Available daylight sizes

	Daylight size (cm) Width x height		Daylight size (cm) Width x height
Square	* 60 x 60	Rectangular	40 x 70
	70 x 70		60 x 90
	80 x 80		70 x 100
	90 x 90		80 x 130
	100 x 100		80 x 180
	110 x 110		90 x 120
	120 x 120		100 x 130
	130 x 130		100 x 150
	140 x 140		100 x 200
	150 x 150		** 100 x 300

** not available for Solar*
*** availability on request*

General characteristics

Room temperature	Below 30°
Operating temperature Solar Pack	-20°C / +60°C
Maximum relative humidity (RH%)	95% - non-condensing
Power use	Max. 14, depending on the size
IP class	IP40
Insulation class	II
Colour	RAL9010
Bluetooth range	Open environment - up to 40 m
Control	Only 1 on 1 wireless switch
Curb tolerances	±2mm
Solar Pack orientation	10 mm from the top of the curb North, Northeast or Northwest

General characteristics canvas

	Inner sunblind (S)	Blackout blind (V)	Insect screen (I)
Functioning temperature	-20°C /+60°C		
Colour inside	white	light grey	white
Colour outside	white	light grey	white
Canvas material	100% polyester	polyester with aluminium foil on the inside	100% polyethylene
Light transmission	± 30 % (transmission)	± 0,5 % (transmission)	± 90 % (transmission)
Type	honeycomb	honeycomb	honeycomb

For larger dimensions, the folded fabric is still slightly visible on the profile side

Specific characteristics: Skylux® electric screen - 230 V

Skylux electric screen - 230 V must be connected to a 230 V power supply.

Specific characteristics: Skylux® electric screen - Solar

Skylux electric screen - Solar has a large battery capacity of 12000 mAH which allows:
- opening and closing the screen 3 times a day for a whole year
- opening and closing the screen more than 80 times without additional charging by the sun
- flawless operation of the sunblind, even after 30 days of low sunlight

The solar panel can operate in shadowy areas and can therefore be installed below the skylight/roof window.
- No need for cutting or breaking to install the screen
- Installation is easy
- Installation without an electrician is possible
- More flexibility during installation
- No need for cable passages through the roof, which prevents problems concerning water- and airtightness

The solar panel is intelligent
- The screen stays in resting position when the battery is dead
- The ageing of the batteries can be followed up
- There's maximum reliability thanks to a specially developed BMS system (battery management system)

The Solar Pack offers 'maximum power point tracking' for the solar panel
- This ensures continuous maximum power from the solar panel
- This technique makes the solar panel very small allowing you to install it in a hidden position

Emergency charging with USB-C port is possible
- Standard USB-C is commonly used and can therefore be found in most households

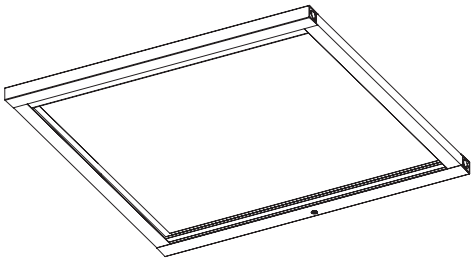
Triple battery safety
- This is more than legally required
- Reliability is of great importance for Skylux
- The batteries are strong and have plenty of automatic safety features to avoid risk of damage as much as possible

Power output of maximum 100 W per Solar Pack
- Very high capacity
- This enhances reliability of the Solar Pack, even in the long term
- It also ensures a long service life for your application
- The Solar Pack can be used for even higher capacities

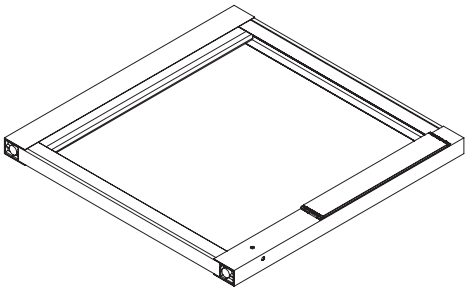
Guaranteed lifespan of at least 5 years
- The battery is charged up to a maximum of 90% which makes the lifespan 4 times longer than usual
- The expected minimum lifespan under normal use is 5 to 8 years
- The Solar Pack can be changed separately

Technical drawings

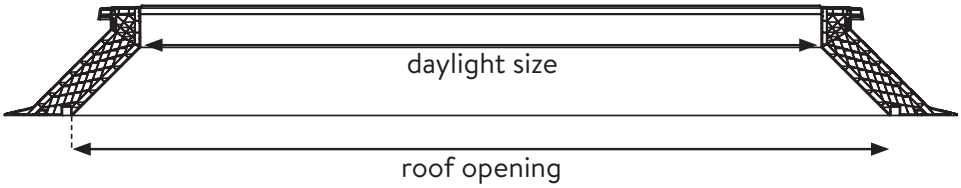
- 230 V version

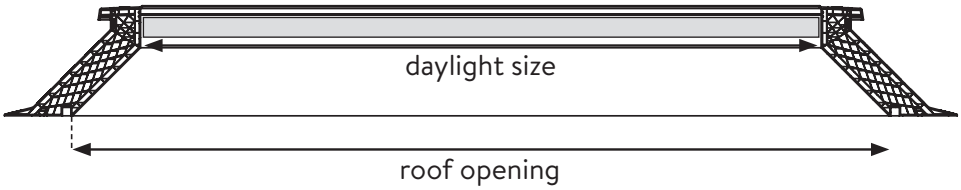


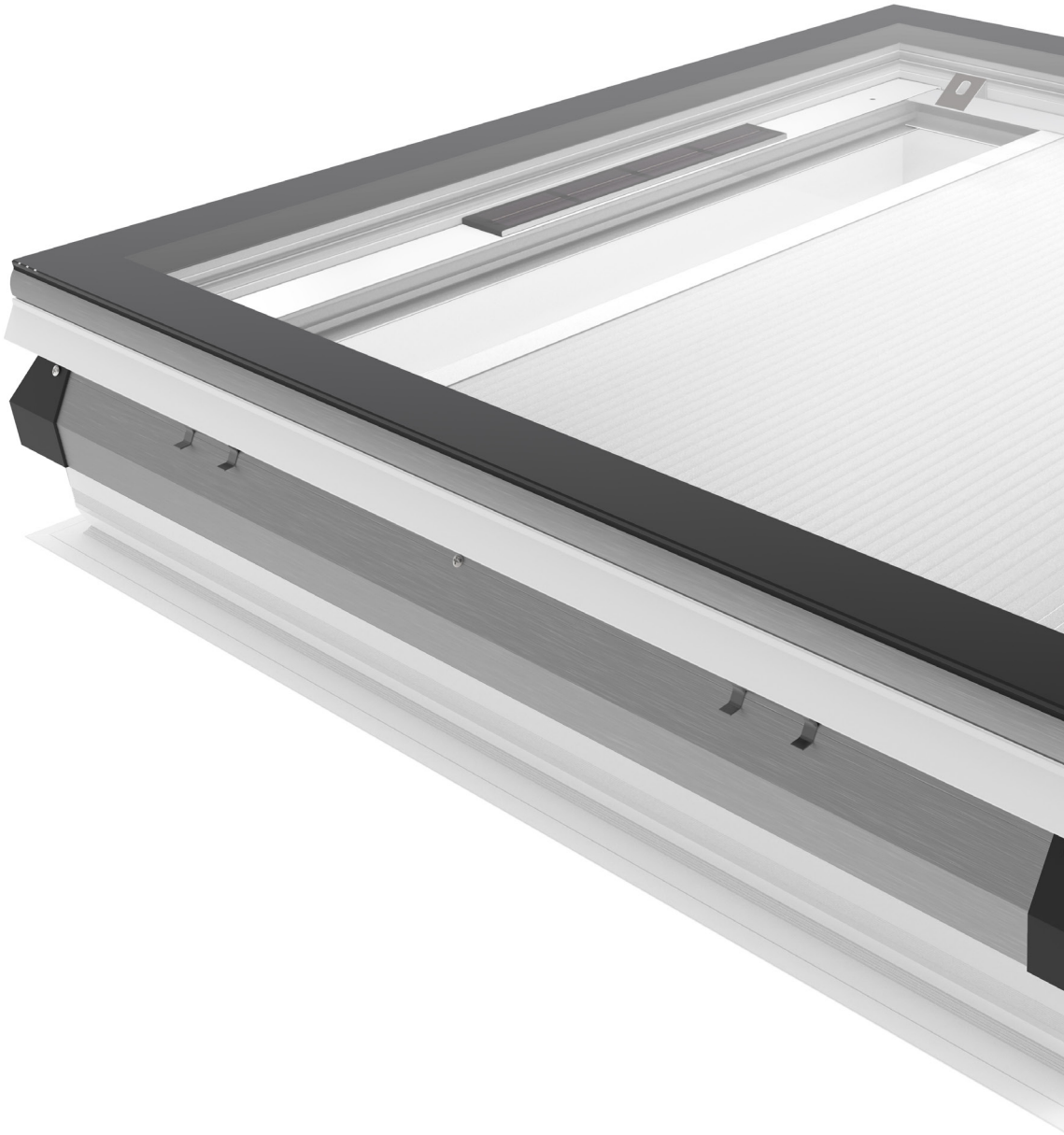
- Solar version

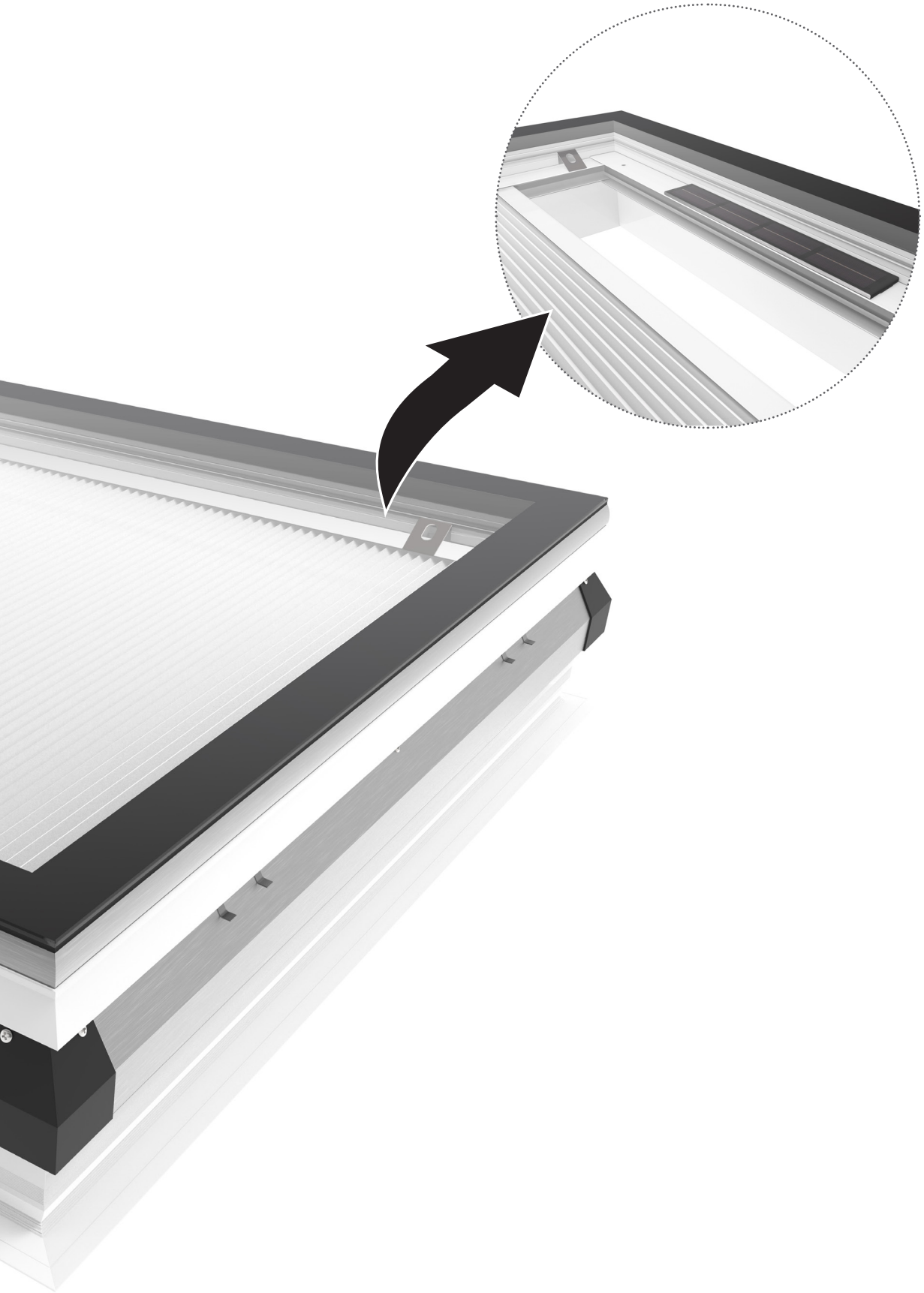


Dimensions of the inner sunblind









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