



# LAMILUX Flat Roof Access Hatch Comfort

24V / 230V Square - Assembly instruction

## General comments

The content of this assembly instruction manual has been established to the best of our knowledge. All notes, technical and visual information reflect the current state of technology and are based on our experiences.

Legal claims cannot be derived from the content of this installation manual. LAMILUX reserves the right to change technical specifications.

Every work has to be done in accordance with the current state of technology, the regulations and guidelines of authorities, trade associations, accident prevention regulations and professional associations of the Federal Republic of Germany, the European Union and the country of destination. As far as standards, technical regulations or guidelines (e.g. EN or equal standards) exist, the work has to be done in compliance with those directives.

Revision index:

This version replaces previous editions completely.



The assembly instruction manual must be read before installation  
Particularly the safety and operating instructions



Do not step on glass - RISK OF BREAKING THROUGH



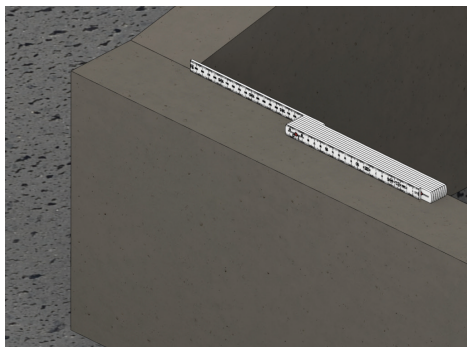
All sizes and glazing are accessible for maintenance measures  
according to DIN 18008-6.



Always use fall arrest equipment and follow national regulations for fall-through  
protection



Check all materials are complete on delivery



### Check and prepare for installation

In general, the building tolerances apply which can  
be given on request

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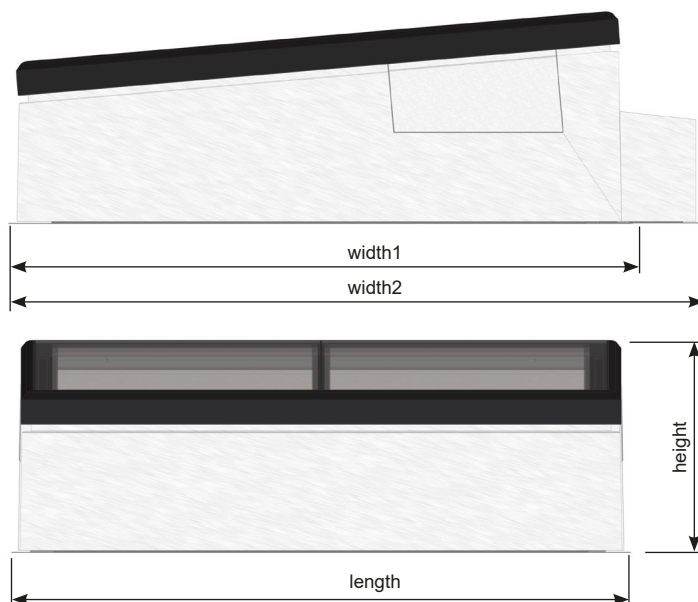
## Technical details

### dimensions / weight:

length	2324mm
structural roof opening length	2000mm
width 1	2324mm
width 2	2606mm
structural roof opening width	2000mm
height (without attachments)	797mm
weight (without pallet)	515kg

### electrics:

connection power	max. 1,36 kW 1 phase
current drain	5,9 A
supply voltage	230 V <sub>AC</sub>
mains frequency	50 Hz
control voltage	24 V <sub>DC</sub>
operation voltage unit (230V)	230 V <sub>AC</sub>
operation voltage unit (24V)	24 V <sub>DC</sub>
emergency power supply (24V)	24 V <sub>DC</sub>



### ambient conditions:

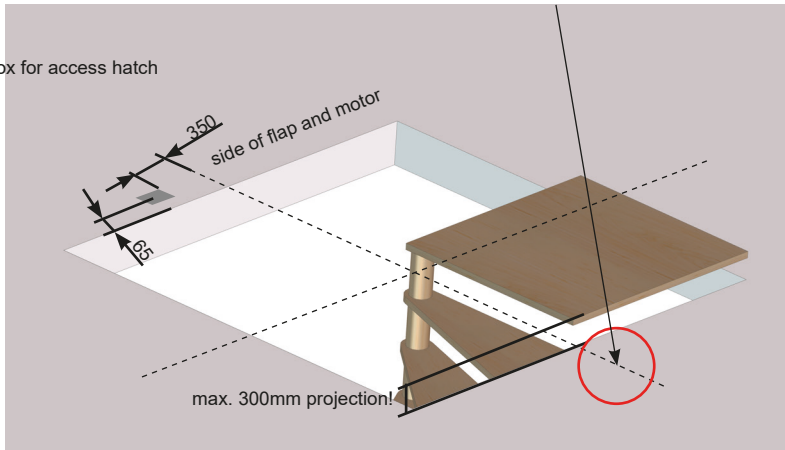
temperature range	-30°C to +70°C
wind load	1500N/m <sup>2</sup>
snow load	750N/m <sup>2</sup>
allowed operation snow load	500N/m <sup>2</sup>
wind resistance class (opened)	class 3, 38-49km/h

## Preparation

The stand area of the upstand must be horizontal!

The pre-assembled limit switch in the flat roof access hatch swing is always located on the side of the stairway.

clamping box for access hatch



### Note

Before mounting of the flat roof access hatch on the substructure, verify the circumferential rests of the flap and seal between the upstand and the flap!

The misalignment of the flat roof access hatch can be corrected by aligning on the support.  
A later correction is not possible!

# Transport

## Delivery

The flat roof access hatch is delivered pre-assembled and fixed to its upstand.

During transport of the construction to the installation site, the construction is mounted on a wooden pallet.

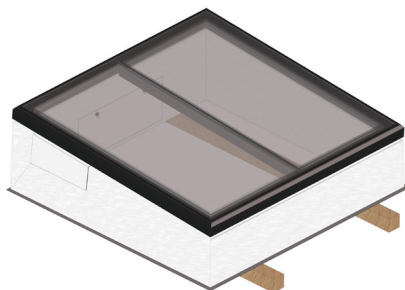
Dimensions: approx. width = 2,4m; length = 2,65m;

height = 0,91m

Weight: approx. 600kg

The pallet is equipped with wooden planks on the stand and can be lifted with a forklift truck or by crane.

To protect the construction, it should remain on the pallet for as long as possible.



## ATTENTION

Always store aerated

NEVER lift the flat roof access hatch with a glass sucker.

Never lift at cover strips!

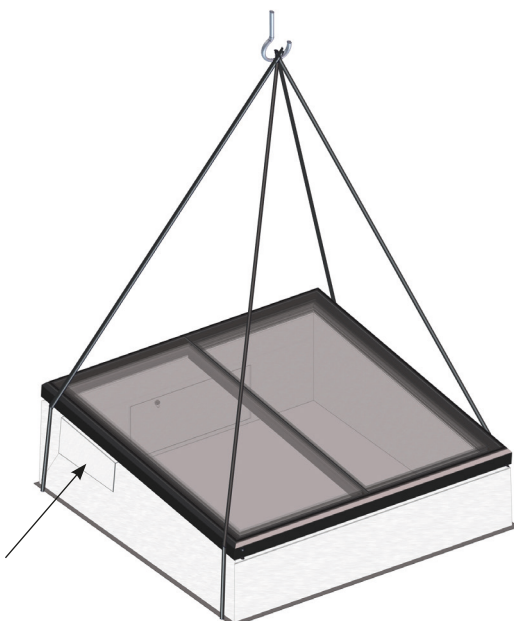
Risk of glass breakage



Avoid overheating!

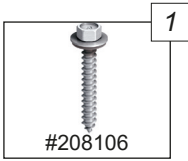


for transport, use the lifting eyes at the frame

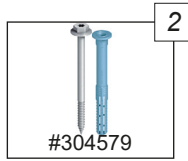


Maintenance openings for the motors

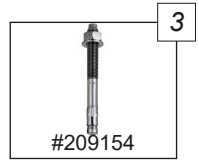
# Assembly



Wood screw  
JA3-6,5x64-E16

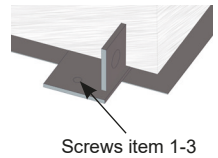


Screw-in wall plug  
SDF-KB-10Vx70-V



Bolt anchor  
MKT BZ 8-10/75-A4

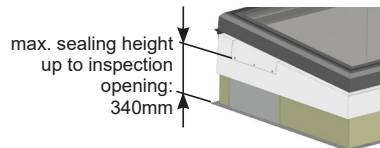
Substructure	Item number	Number of fasteners
Wood	1	8
Reinforced concrete	2	8
Reinforced concrete	3	8



Fixings are not included in scope of delivery. Please contact our sales office if you wish to add these to your order. Equivalent screws and plugs with technical approval can be procured from most DIY stores or your local builders merchants and can also be used.

## Installation

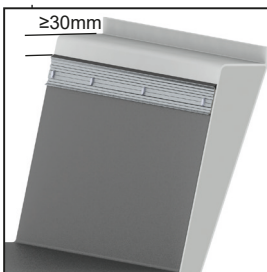
- Installation only on horizontal and flat roof surfaces
- Select mounting material suitable for the substructure
- Observe centre distance of the hoels



Do not use screws to fasten the clamping profiles to the upstand, instead use splash-proof special rivets.

For plastic sheeting: Press plate blind rivet with neoprene disk 5.2x19.1 Al/Al (#216043)

For bituminous welding sheeting: press plate blind rivet with neoprene disc 5.2x28.6 Al/Al (#216044)

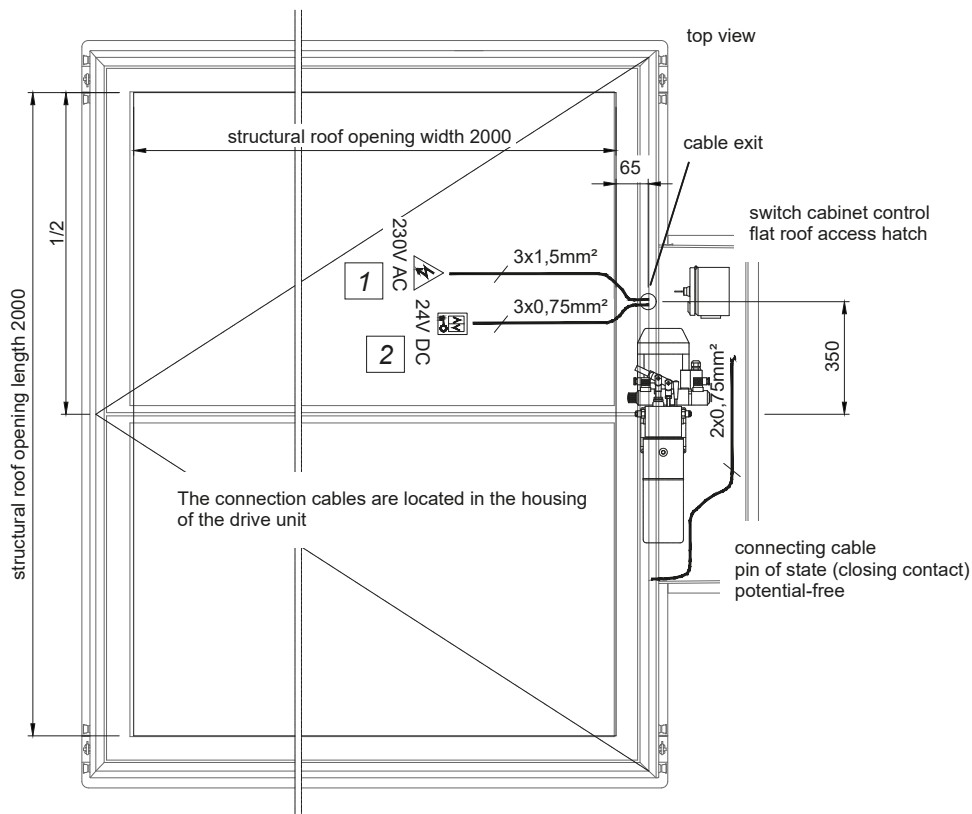


The drawn connection only serves as a schematic for orientation!  
Please note!

Waterproofing is to be carried out by an approved roofer after installation.



## Connection diagram 230V - without blind



1 input lead operating voltage flat roof access hatch

2 key switch button flat roof access hatch

Fuses installed internally:

- Circuit breaker B10 for 230 VAC power supply (designation F1)
- Fuse for valve control and control lines 24 VDC 2,5A slow blow (designation F2)

Fuse protection to be installed by the customer: RCD (residual circuit breaker) with 30mA to be designed in accordance with the current standards.

Supply line flat roof access hatch 230V AC (externally fused with RCD 30mA and circuit breaker)

connection:

blue: >> neutral conductor

brown >> L(phase)

yellow-green >> earth

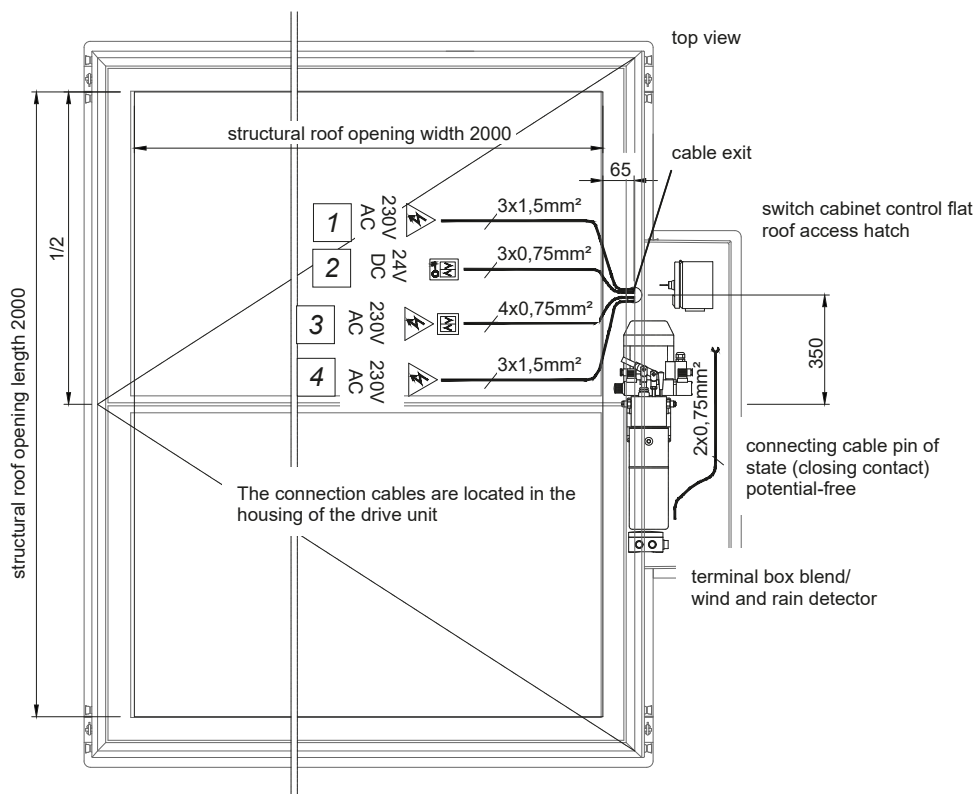
Key switch flat roof access hatch (24V DC)

K1 >> open

K2 >> close

K3 >> combined wire

## Connection diagram 230V - with blind



1 input lead operating voltage flat roof access hatch

2 key switch button flat roof access hatch

3 button blind

4 input lead operating voltage blind

Fuses installed internally:

- Circuit breaker B10 for 230 VAC power supply (designation F1)
- Fuse for valve control and control lines 24 VDC 2,5A slow blow (designation F2)

Fuse protection to be installed by the customer: RCD (residual circuit breaker) with 30mA to be designed in accordance with the current standards.

Supply line flat roof access hatch 230V AC (externally fused with RCD 30mA and circuit breaker)

Connection:

blue >> neutral conductor

brown >> L(phase)

yellow-green >> earth

key switch flat roof access hatch (24V DC)

K1 >> open

K2 >> close

K3 >> combined wire

Supply line blend 230V AC (externally fused with RCD 30mA and circuit breaker)

connection:

blue >> neutral conductor

brown >> L(phase)

yellow-green >> earth

Awning button (230V AC) mutually interlocked (do not use a switch!)

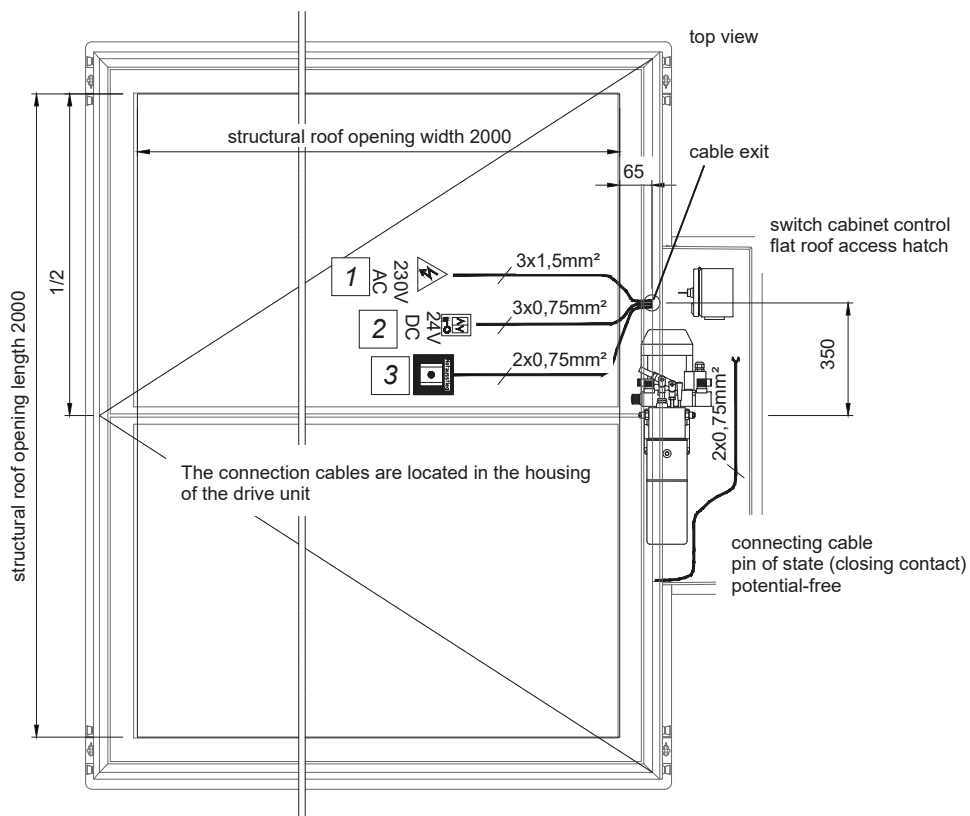
black >> opener

beown >> close

grey >> combined wire

yellow-green >> earth

## Connection diagram 24V - without blind



1 input lead operating voltage flat roof access hatch

2 key switch button flat roof access hatch

3 emergency button

Connection emergency button:

- K1 Emergency button >> K1 Emergency button supply line
- K2 Emergency button >> K2 Emergency button supply line

Fuses installed internally:

- Circuit breaker B10 for 230 VAC power supply (designation F1)
- Circuit breaker B20 for 24 VDC engine (designation F2)
- Fuse for valve control and control lines 24 VDC 2,5A slow blow (designation F3)

Fuse protection to be installed by the customer: RCD (residual circuit breaker) with 30mA to be designed in accordance with the current standards.

Supply line flat roof access hatch 230V AC (externally fused with RCD 30mA and circuit breaker)

connection:

blue >> neutral conductor

brown >> L(phase)

yellow-green >> earth

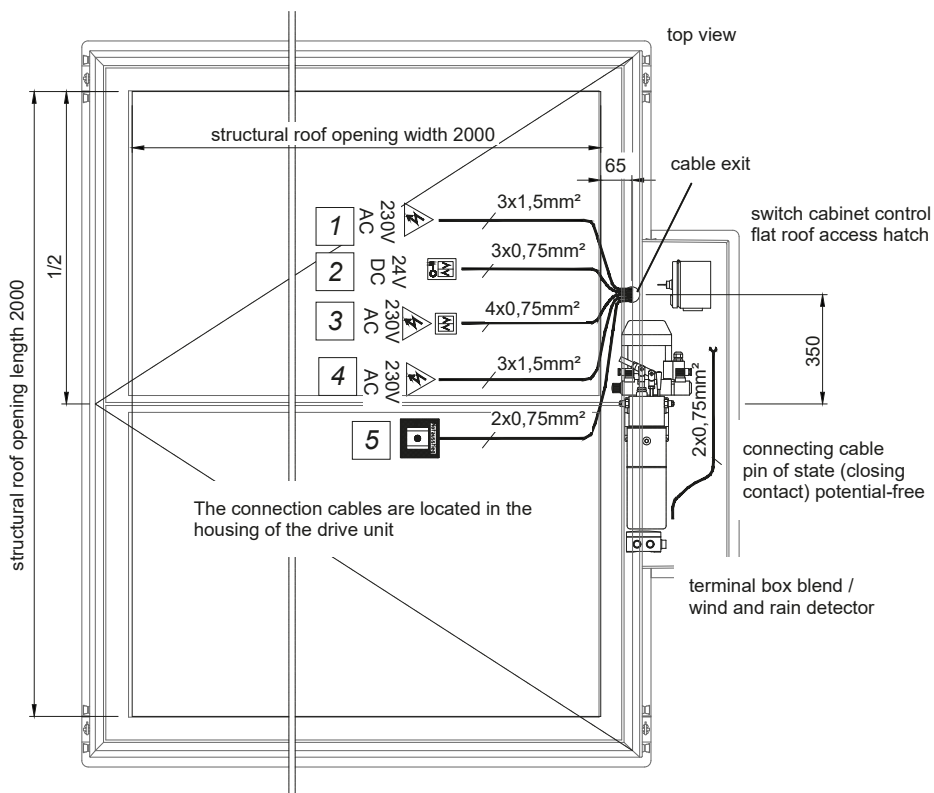
key switch flat roof access hatch (24V DC)

K1 >> open

K2 >> close

K3 >> combined wire

## Connection diagram 24V - with blind



- 1 input lead operating voltage flat roof access hatch
- 2 key switch button flat roof access hatch
- 3 button blind
- 4 input lead operating voltage blend
- 5 emergency button

Connection emergency button:

- K1 Emergency button >> K1 Emergency button supply line
- K2 Emergency button >> K2 Emergency button supply line

Fuses installed internally:

- Circuit breaker B10 for 230 VAC power supply (designation F1)
- Circuit breaker B20 for 24 VDC engine (designation F2)
- Fuse for valve control and control lines 24 VDC 2,5A slow blow (designation F3)

Fuse protection to be installed by the customer: RCD (residual circuit breaker) with 30mA to be designed in accordance with the current standards.

Supply line flat roof access hatch 230V AC (externally fused with RCD 30mA and circuit breaker)

connection:

blue >> neutral conductor

brown >> L(phase)

yellow-green >> earth

key switch flat roof access hatch (24V DC)

K1 >> open

K2 >> close

K3 >> combined wire

Supply line blend 230V AC (externally fused with RCD 30mA and circuit breaker)

connection:

blue >> neutral conductor

brown >> L(phase)

yellow-green >> earth

Awning button (230V AC) mutually interlocked (do not use a switch!)

black >> opener

brown >> close

grey >> combined wire

yellow-green >> earth

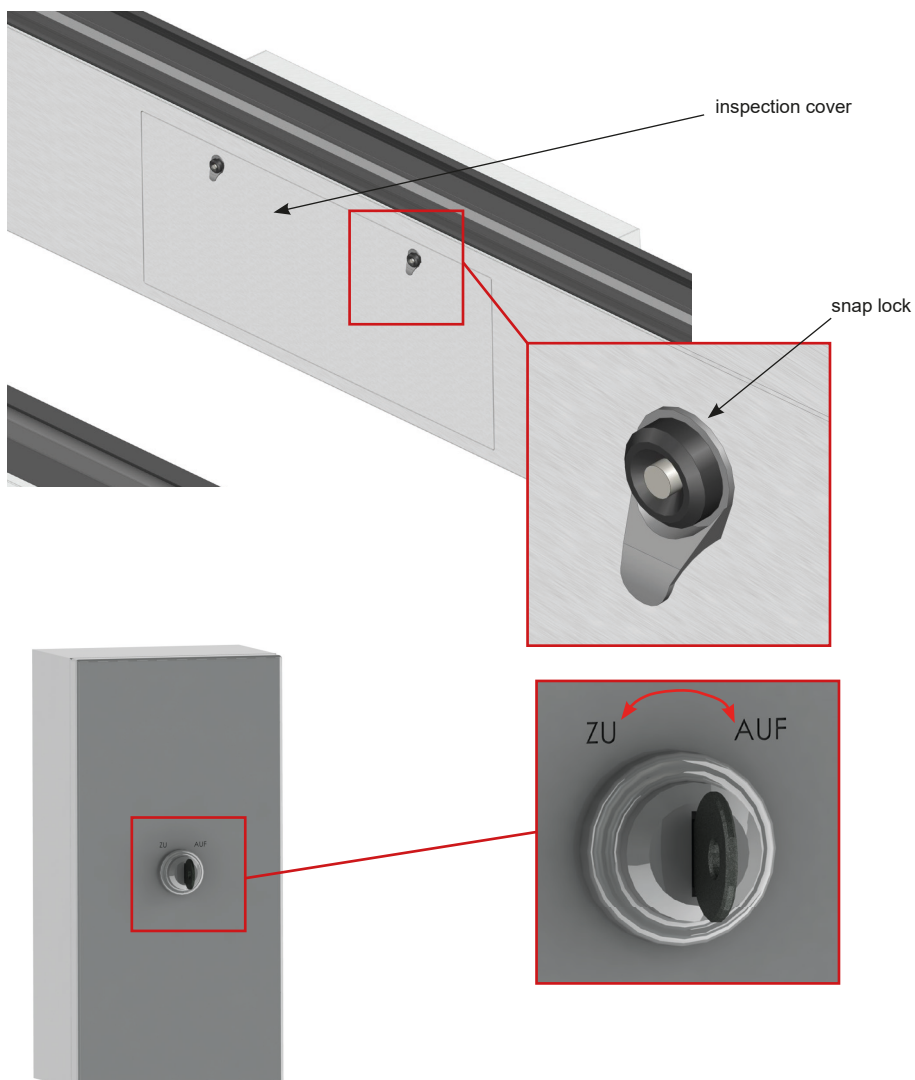


## Control element during assembly

After connecting the operating voltage of 230V, the element can be opened or closed using the key switch on the control cabinet (without connection of the control line).

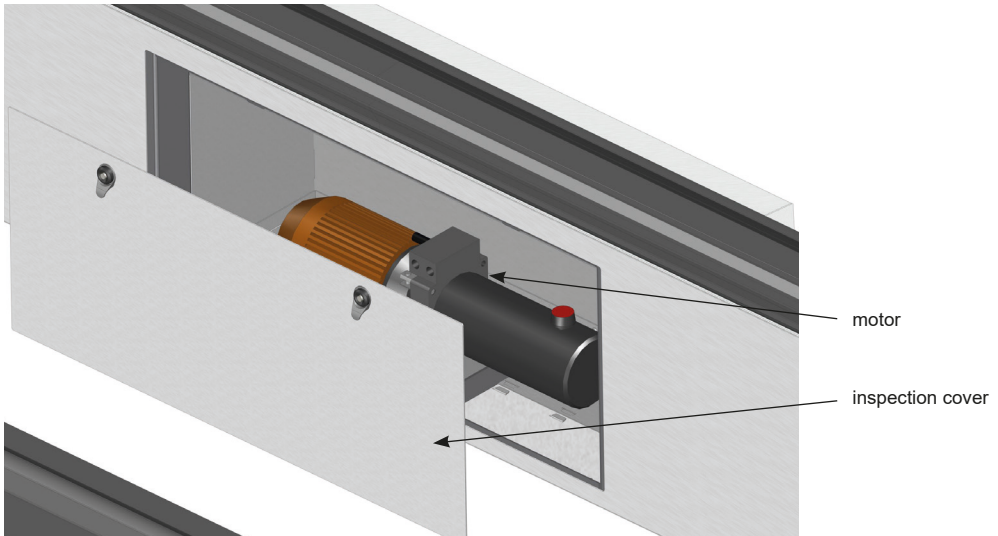
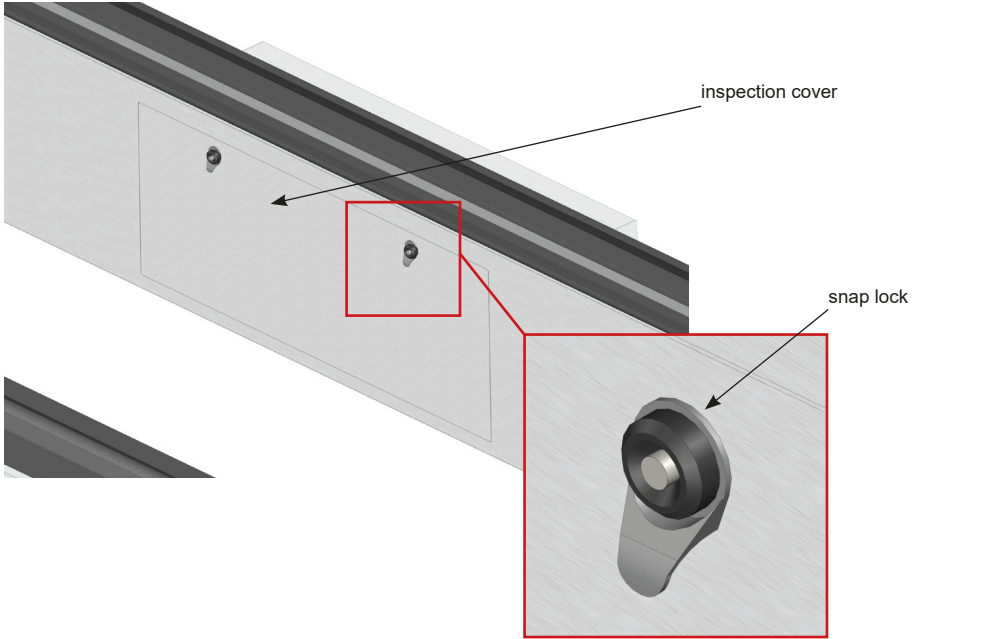
The control cabinet is located behind the inspection cover.

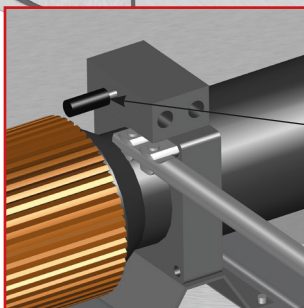
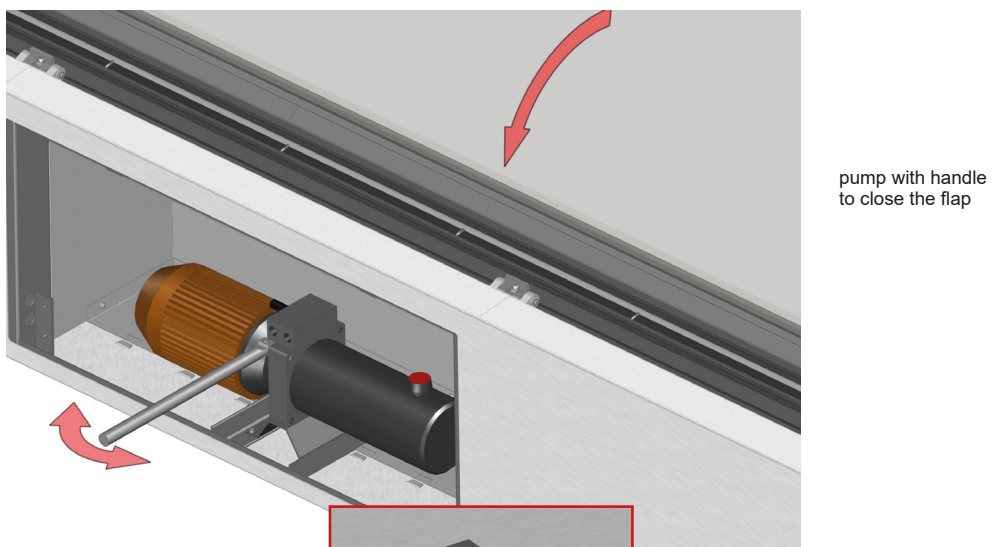
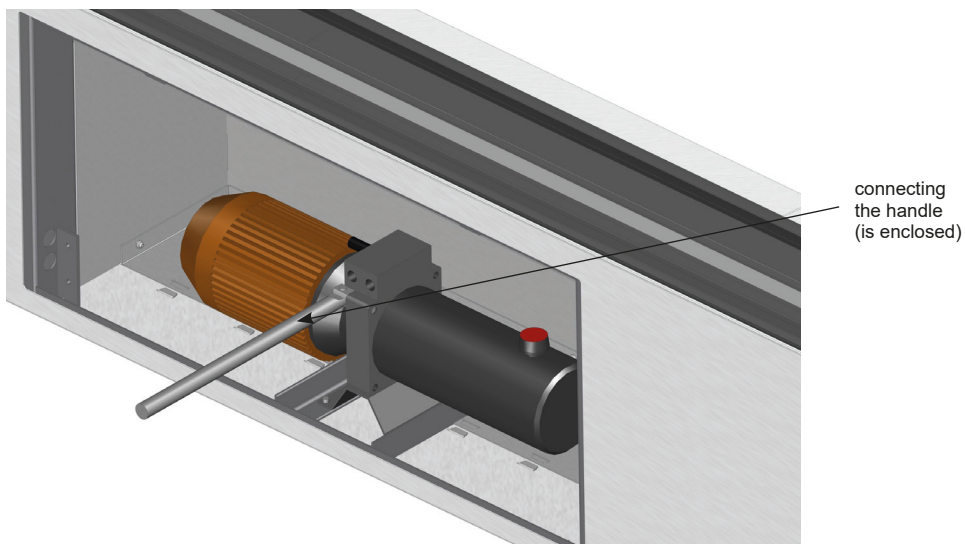
The light barrier is active! The monitoring area must not be disturbed.



# Manual operation in case of power failure or electrical defect

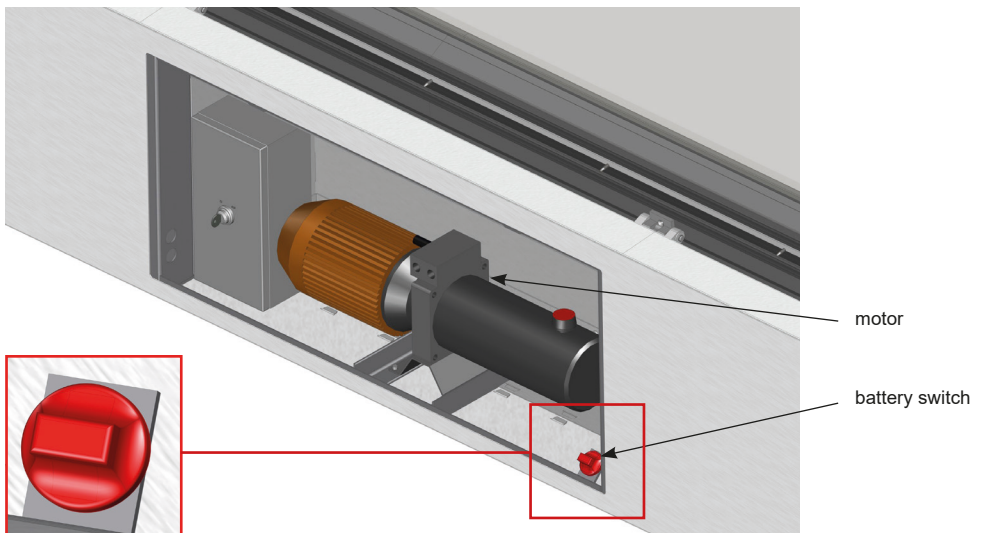
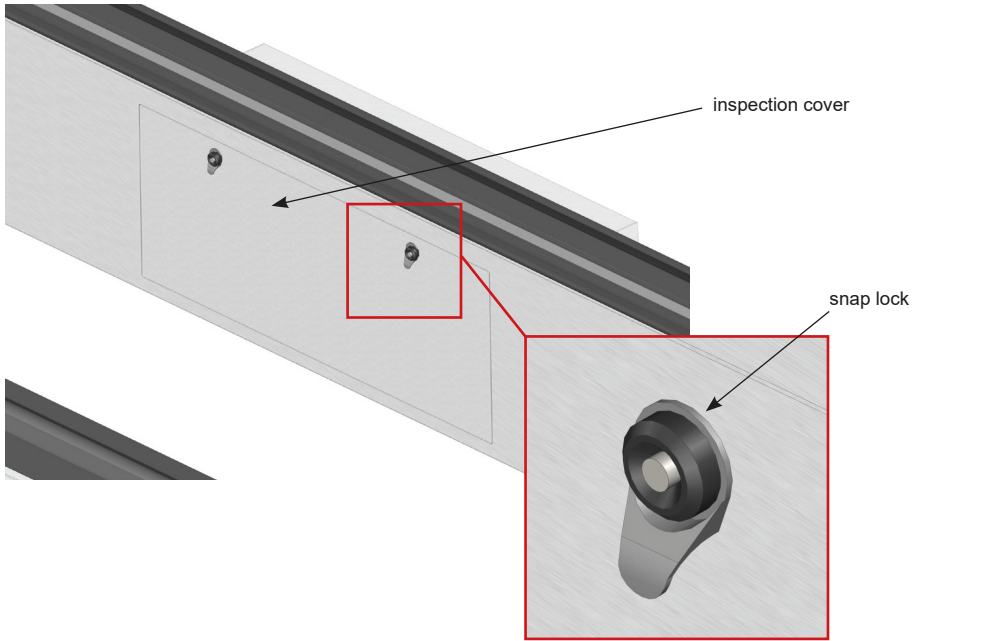
The element can be closed manually via manual pump operation in case of power failure or motor damage.





# Commissioning the batteries / emergency power supply

The emergency power supply is switched on by turning the switch to position 1. Afterwards the flat roof access hatch is fully functional in battery mode.





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GLASS SKYLIGHT F100



GLASS SKYLIGHT FE



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FLAT ROOF ACCESS HATCH



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BUILDING SMOKE EXTRACTION



RODA LIGHT AND AIR TECHNOLOGY

The technical data listed in this brochure correspond to the current status at the time of printing and are subject to change. Our technical specifications are based on calculations and supplier specifications, or have been determined by independent testing authorities within the scope of applicable standards. Thermal transmission coefficients for our plastic glazing were calculated using the finite element method with reference values in accordance with DIN EN 673 for insulated glass. Taking into account practical experience and the specific characteristics of plastic, the temperature difference between the outer surfaces of the material was defined as 15 K. Functional values refer to test specimens and the dimensions used in testing only. We cannot provide any further guarantees of technical values. This particularly applies to changed installation conditions or if dimensions are re-measured on site.



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