



# LAMILUX Flat Roof Access Hatch Comfort

24V / 230V Swing - Assembly instruction



Issue Date: December 2023

### **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



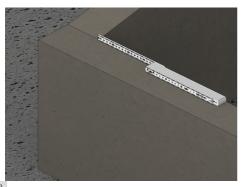
All sizes and glazing are accessible for maintenance measures according to DIN 18008-6.



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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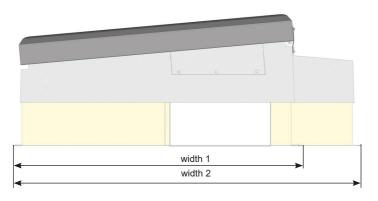
### **Technical details**

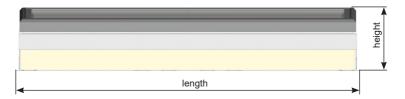
#### dimensions / weight:

length 3324 / 3824mm structural roof opening length 3000 / 3500mm width 1 1324mm width 2 1606mm structural roof opening width 1000mm height (without attachments) 606mm weight (without pallet) 515kg

### electrics:

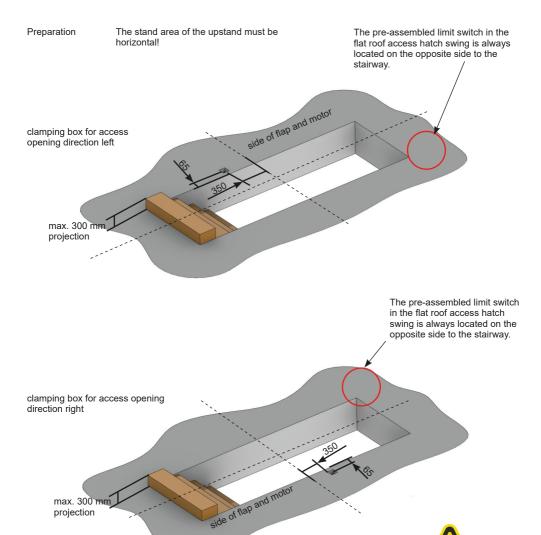
connection power max. 1,36 kW 1 phase current drain 5,9 A 230 V<sub>AC</sub> supply voltage mains frequency 50 Hz control voltage  $24 V_{DC}$  $230 \; \bar{V}_{_{\!AC}}$ operation voltage unit (230V) operation voltage unit (24V) 24 V<sub>DC</sub> emergency power supply (24V) 24 V<sub>DC</sub>





### ambient conditions:

temperature range -30°C to +70°C wind load 1500N/m² snow load 750N/m² allowed operation snow load 500N/m² wind resistance class (opened) class 3, 38-49km/h



### 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 alining 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 = 1,7m; length = 3,6m / 4,1m;

Dimensions: approx. width = 1,7m; length = 3,6m / 4,1m; height = 0,6m

Weight: approx. 515kg

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.



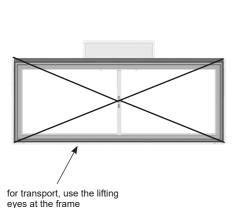
### ATTENTION

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!

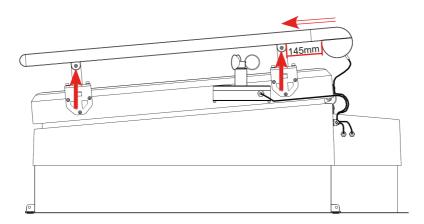


maintenance openings for the motors

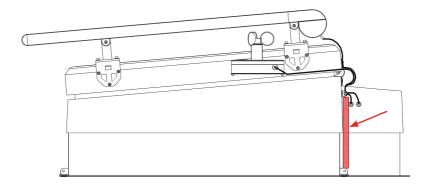


# **Transport with blind**

When transporting with shading systems, unfasten and reposition them so that they are not damaged by the transport ropes. Unscrew the indicated screws and slide the blind 145mm.



To avoid damaging the cable, clamp a board as a spacer for the transport cable.

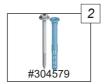




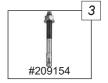
# **Assembly**



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



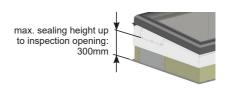
Screws item 1-3



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 holes



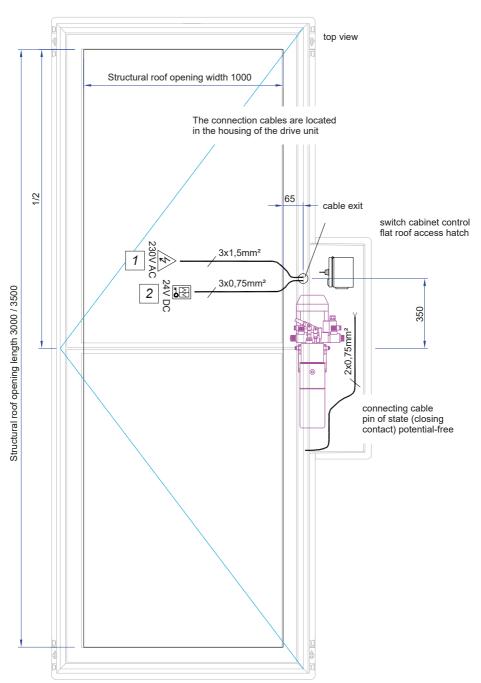
Do not use screws to fasten the clamping profiles to the upstand, instead use splash-proof special rivets. For plastic sheeting: Press plate blind rivet with neoprene disk 5.2x19.1 Al/Al (#216043) For bituminous welding sheeting: press plate blind rivet with neoprene disc 5.2x28.6 Al/Al (#216044)



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
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2 key switch button flat roof access hatch

### SicFuses 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.

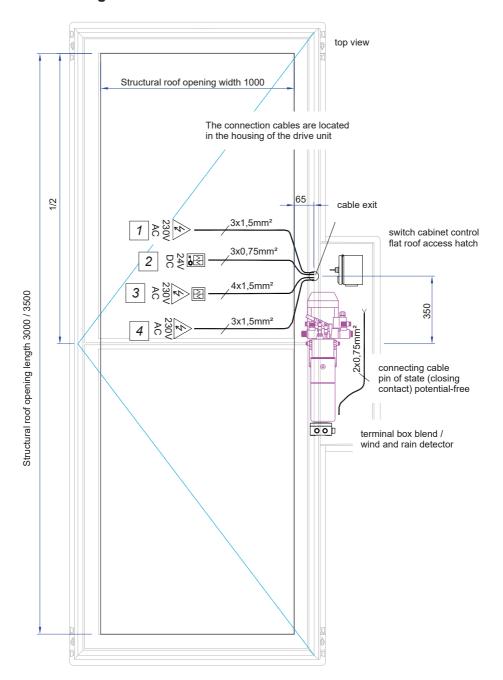
Supply line flat roof access hatch 230V AC (externally fused with RCD 30mA and circuit breaker)

#### 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
---

2 key switch button flat roof access hatch

3 button blend

4 input lead operating voltage blend

### Fuses installed internally:

- Circuit breaker B10 for 230 VAC power supply (designation F1)
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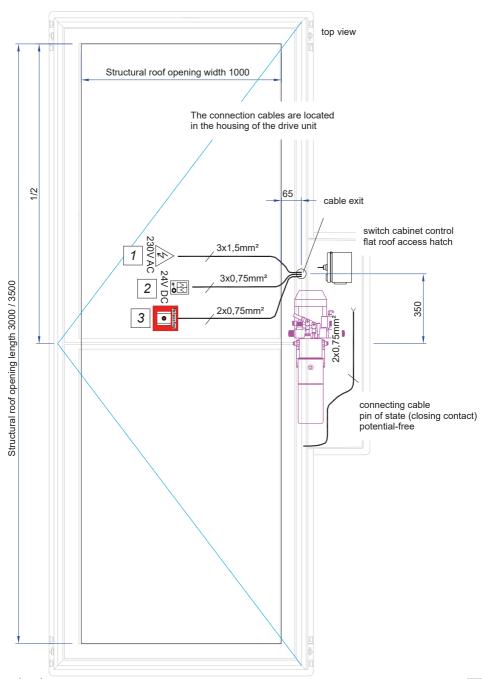
Supply line blend 230V AC (externally fused with RCD 30mA and circuit breaker)

#### 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

# Connection diagram 24 V - without blind



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

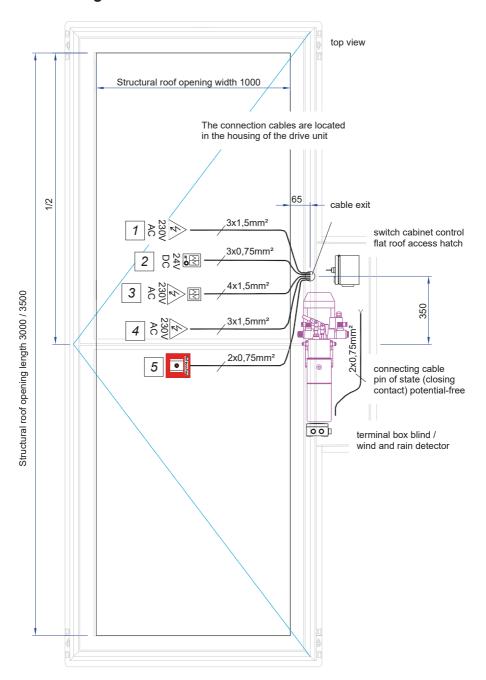
key switch flat roof access hatch (24V DC)

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)
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#### 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!)

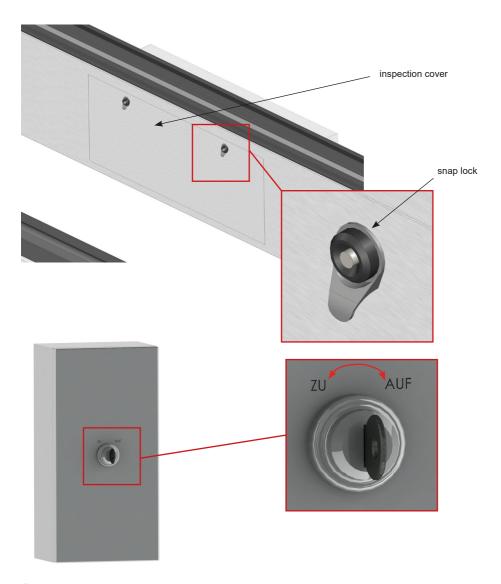
black >> opener brown >> close grey >> combined wire yellow-green >> earth

# 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.

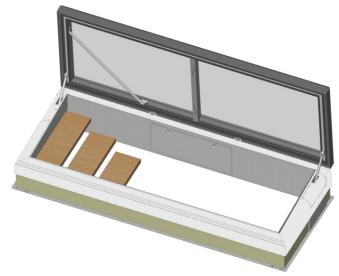
The light barrier is active! The monitoring area must not be disturbed.

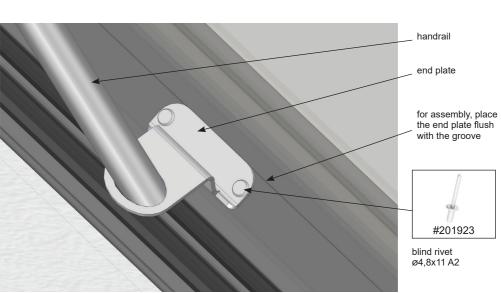




# Assembly of the handrail

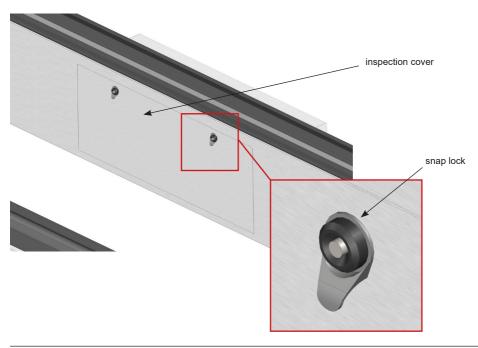
Depending on the planned staircase, a handrail should be provided. If necessary, the supplied model can be assembled. However, a telescopic handrail can also be provided by the customer, for example.

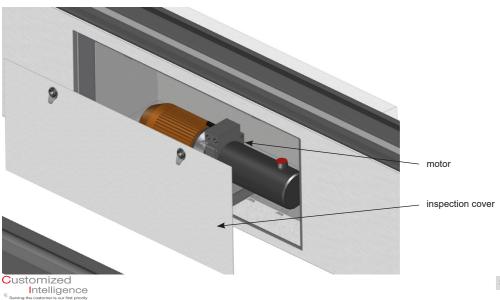


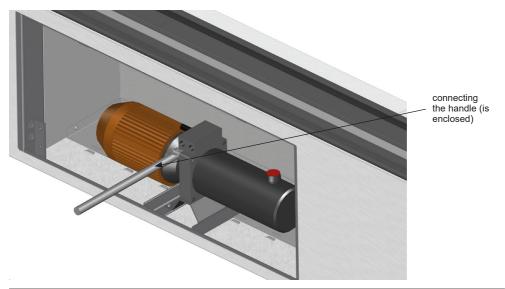


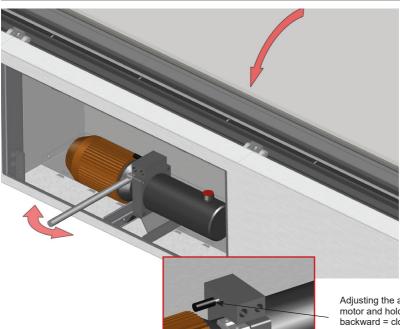
# Manual operation in case of power failure or electrical defect

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







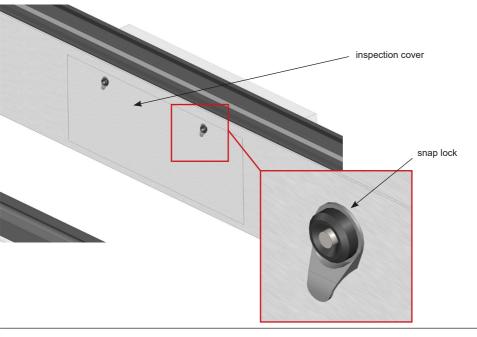


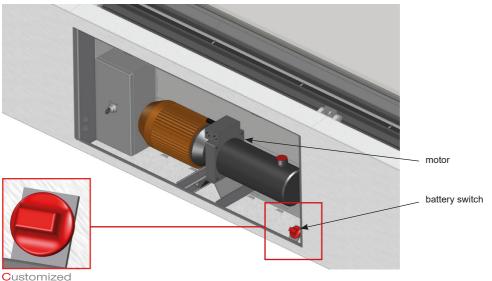
pump with handle to close the flap

Adjusting the adjusting lever on the motor and holding it in position: backward = close forward = open

# Commissioning the batteries / emergency power supply

The emergency power supply is switched on by turning the switch to position1. Afterwards the flat roof access hatch is fully functional in battery mode.





Intelligence



# Scan this to learn more about LAMILUX skylights!



ROOFLIGHT F100 W



GLASS SKYLIGHT F100



GLASS SKYLIGHT FE



GLASS ARCHITECTURE



FLAT ROOF ACCESS HATCH



MIROTEC STEEL CONSTRUCTIONS



CONTINUOUS ROOFLIGHT B/S



RENOVATION



TRANSLUCENT FAÇADE AND ROOF



SMOKE AND HEAT EXHAUST VENTILATION SYSTEMS



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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