



# LAMILUX Flat Roof Access Hatch Comfort

Solo - 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



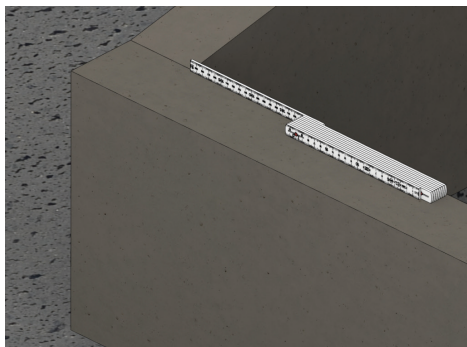
All sizes and glazing are accessible for maintenance measures  
according to DIN 18008-6.



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

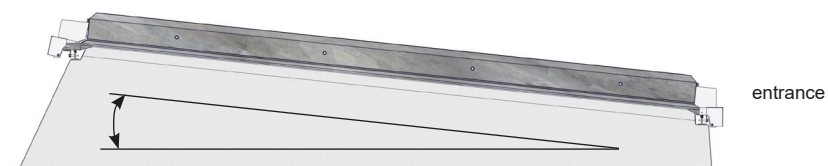
In general, the building tolerances apply which can  
be given on request

# Contents

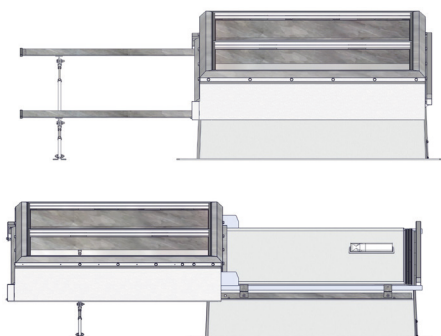


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## Element determination



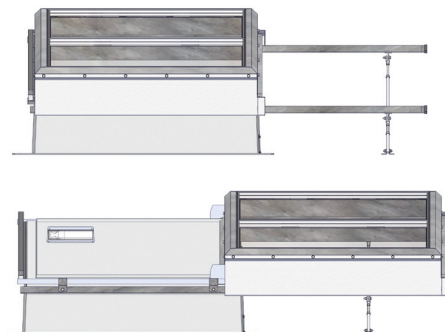
### left flat access hatch



Opens the wing element from the entry side to the left

### right flat access hatch

Opens the wing element from the entry side to the right



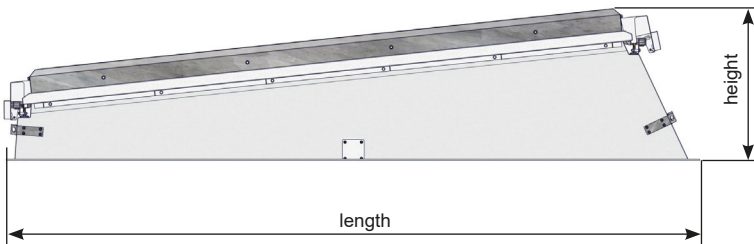
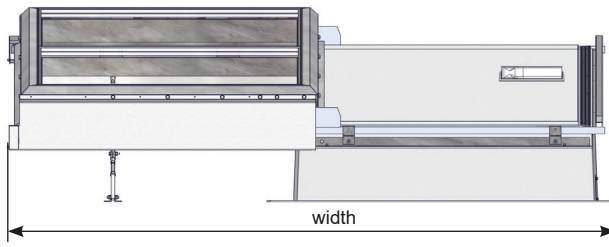
# Technical details

## dimensions / weight:

length (structural roof opening) curb	3500mm
width (structural roof opening) curb	1200mm
length	3970mm
width (open)	2700mm
height	850mm
weight (without pallet)	370kg

## electrics:

connection power	0,25kW
current drain	1,0A
supply voltage	230V <sub>AC</sub>
mains frequency	50Hz
control voltage	24V <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>

# Transport

## Delivery

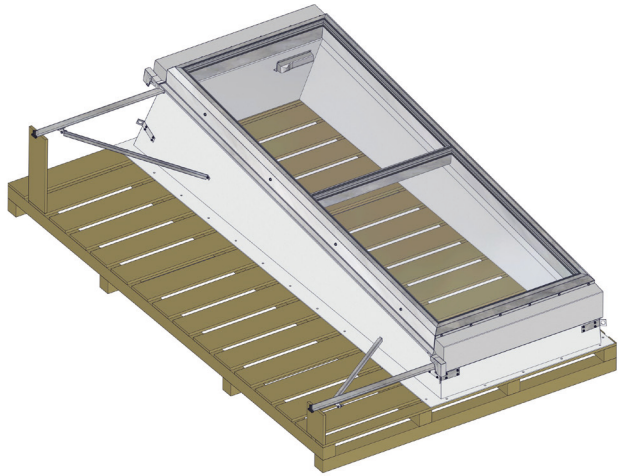
The flat access hatch is delivered pre-assembled and fixed to its upstand. During transport of the construction to the installation site, the construction is mounted on a wooden pallet.

Dimensions: approx. width = 2,4m; length = 4,1m; height = 1,0m

Weight: approx. 670kg

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 access hatch with a glass sucker.

Never lift at cover strips!

**Risk of glass breakage**



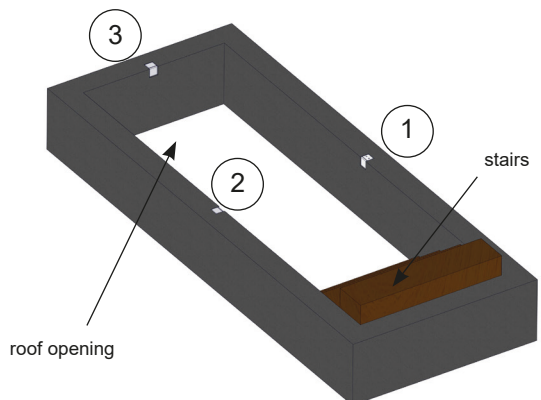
Avoid overheating!

## Preparation

1 = Position of the on-site clamping box for a left flat access hatch

2 = Position of the on-site clamping box for a right flat access hatch

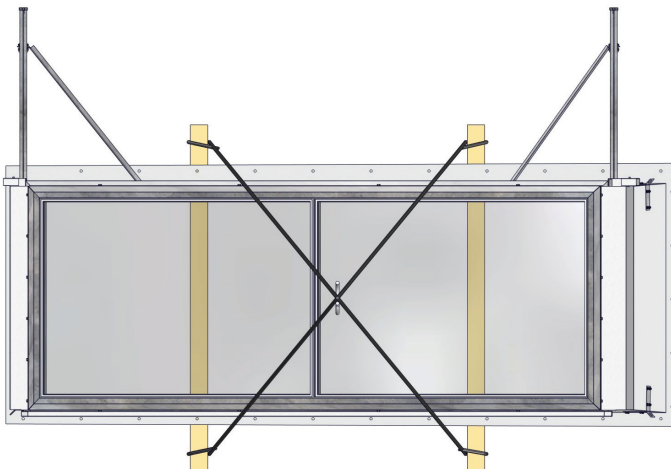
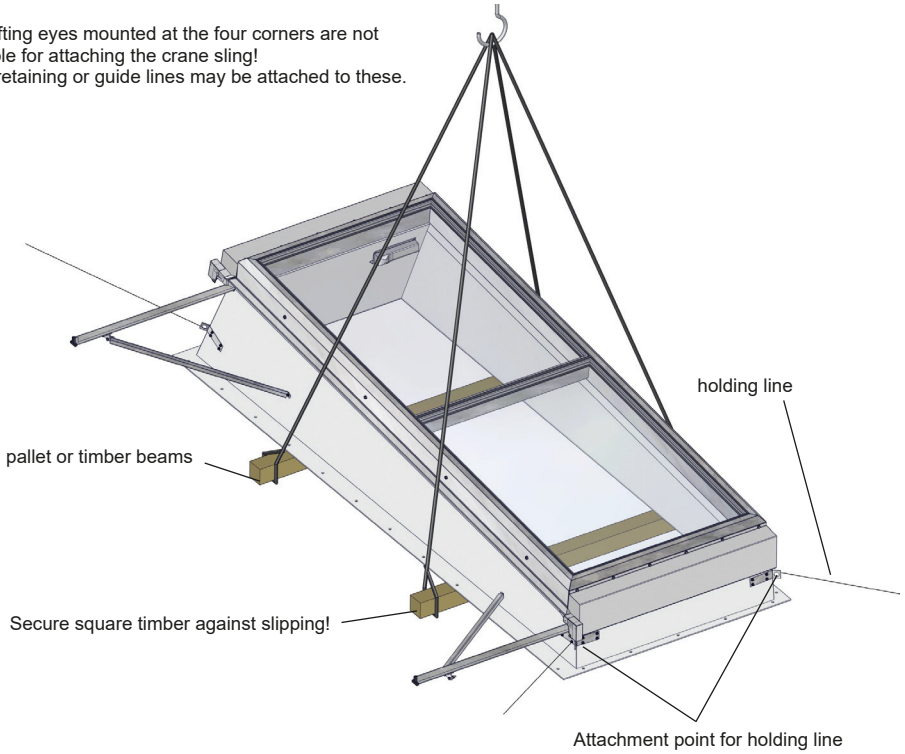
3 = Position of the clamping box on site for models with shading system



## Transport

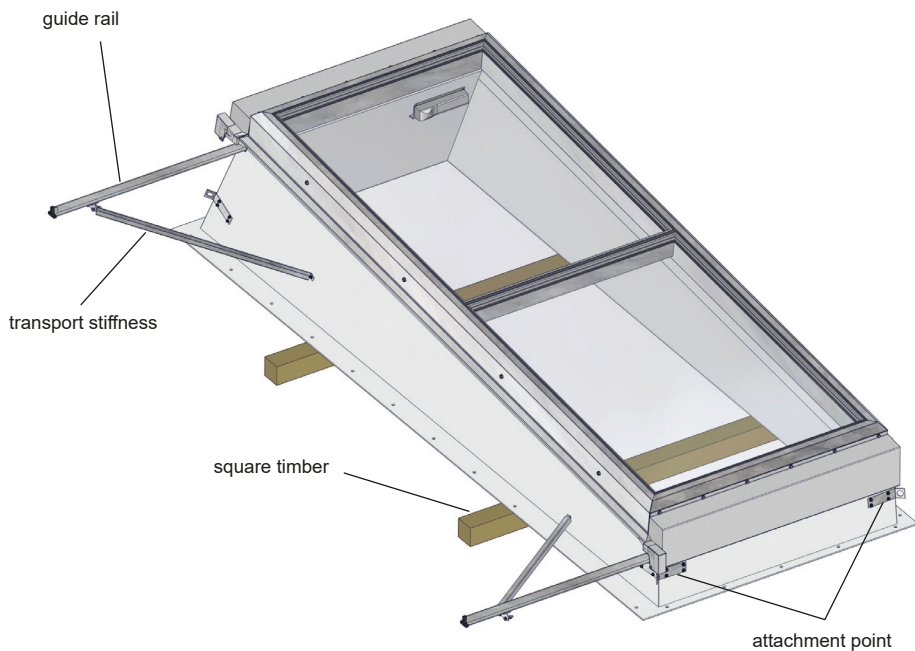
### Transport to the roof surface

The lifting eyes mounted at the four corners are not suitable for attaching the crane sling!  
Only retaining or guide lines may be attached to these.





Arrived on the roof



1. Remove square timber
2. Attach ropes to the lifting eyes and adjust the upstand.

**!! Never pull or press on the guide rails !!**

3. Unscrew the lifting eyes

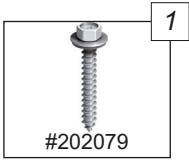


Attention!

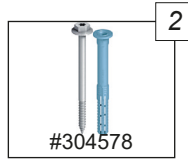
Never open the roof access without first installing the guide rails!

Non-observance may void the warranty!

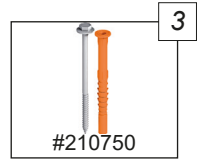
# Assembly



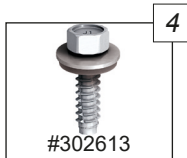
Wood screw  
JA3-6,5x50-E16/2



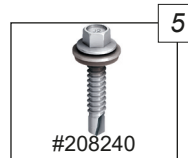
Screw-in wall plug  
SDF-KB-10Vx50-V



Screw-in wall plug  
SDP-KB-10Gx80-V



Sealing screw  
JA3-6,5x32-E16/2



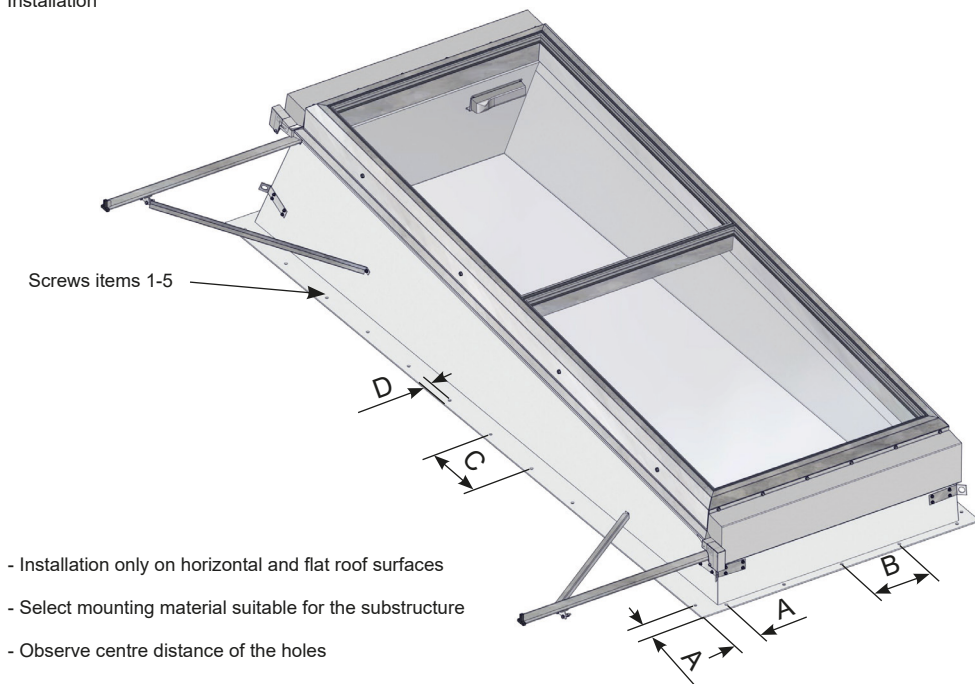
Drilling screw  
JT3-6-5,5x30 E16/2

Substructure	Item number	Drill hole in upstand
Wood	1	Ø 7mm
Reinforced concrete	2	Ø 10,5mm
Aerated concrete	3	Ø 10,5mm
Steel 0,63 - 1,5mm	4	Ø 7mm
Steel 1,5 - 3mm	5	Ø 6mm



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



A = 100mm

Distance drilling hole base flange corner

B = 350mm

Distance drilling hole on short side

C = 335mm

Distance drilling hole on long side

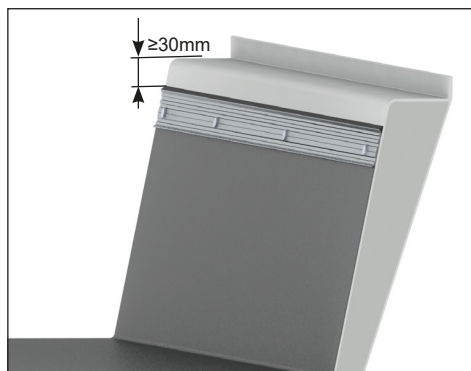
D = 30mm

Distance between drilling hole outer edge of base flange

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)



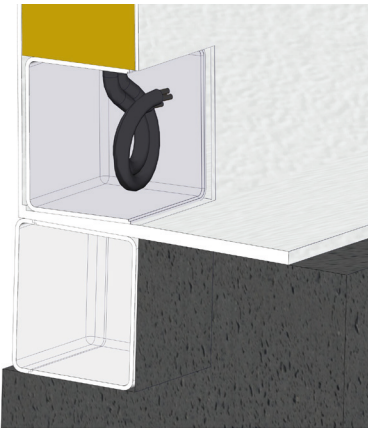
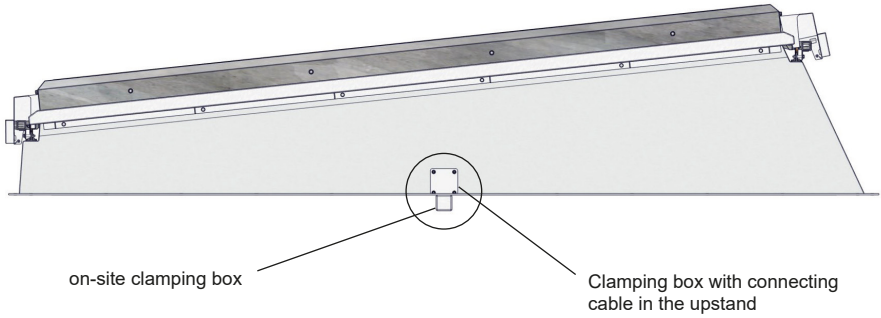
The drawn connection only serves as a schematic for orientation!

Please note!

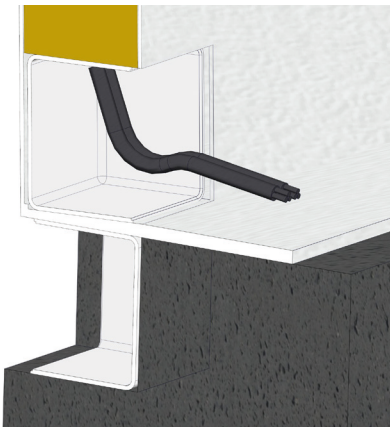
Waterproofing is to be carried out by an approved roofer after installation.

# Connection diagram

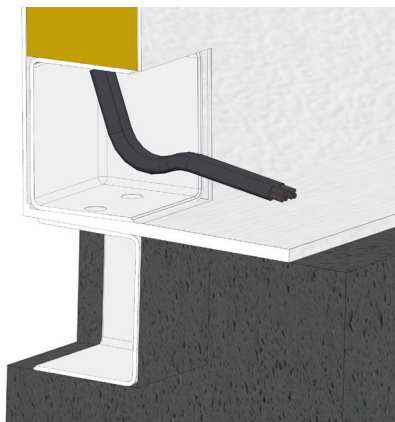
## Cable detail



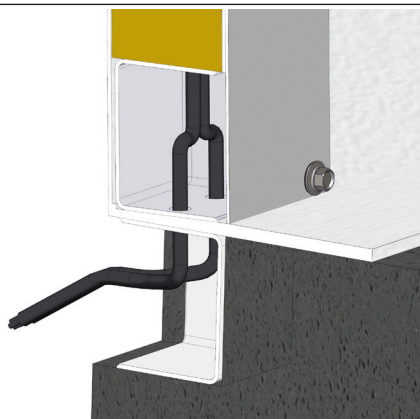
The connecting cables of the electrical components are located in the clamping box in the upstand.



After opening the clamping box, pull out the cables.



Then drill four holes through clamping box and base flange into the on-site clamping box for cable routing.



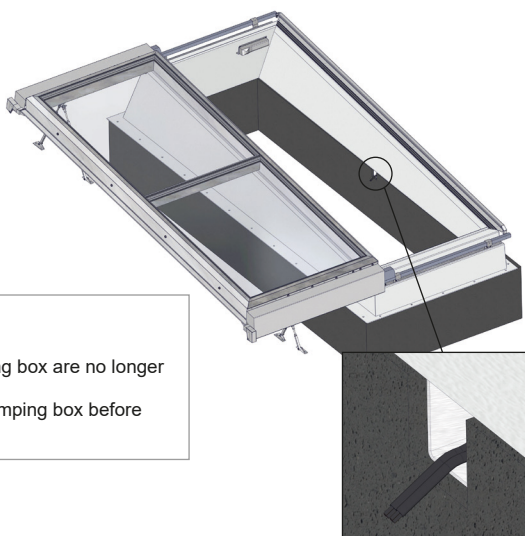
The connecting cables can be routed through these holes to the on-site clamping box. Afterwards, the clamping box can be closed again with the cover in the upstand.

Diagram of cable outlet at the flat access hatch  
 - Cable ends are located in the clamping box  
 - Connect the connection cable according to the clamping plan

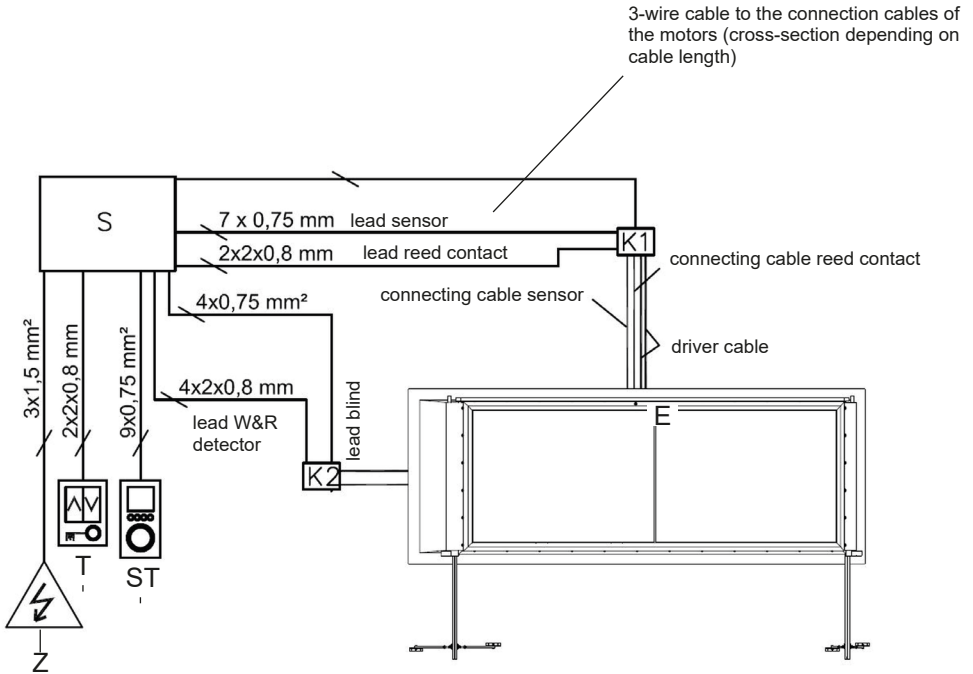


**Attention!**

After sealing the upstand, the cables in the clamping box are no longer accessible!  
 The cables have to be connected to the on-site clamping box before the installation.



connection diagram



S = Control system of the LAMILUX access hatch

K1 = Clamping socket for drives, radar motion sensor and reed contact on the ceiling connection of the upstand (on-site)

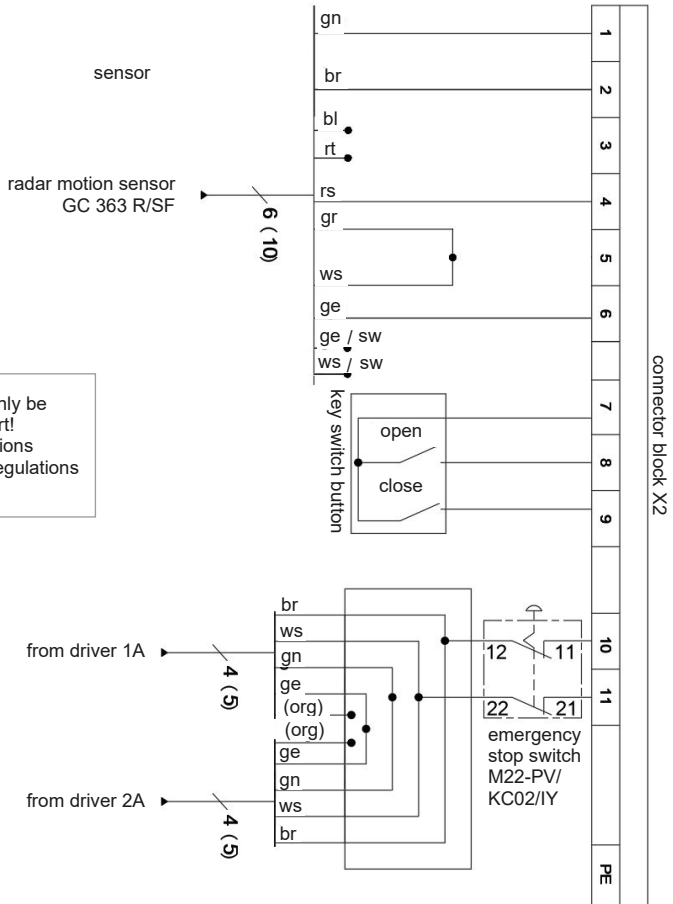
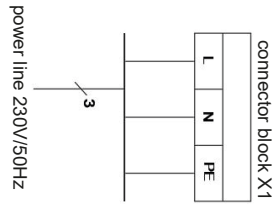
K2 = Clamping socket for blind and W&R detector on the ceiling connection of the upstand (on-site) - optional

T = Pushbutton (essential: Key switch -> Installation in visible area of the flat access hatch)

ST = Control panel for shading system - optional

Z = supply line 230V / 50Hz (on-site)

E = emergency switch

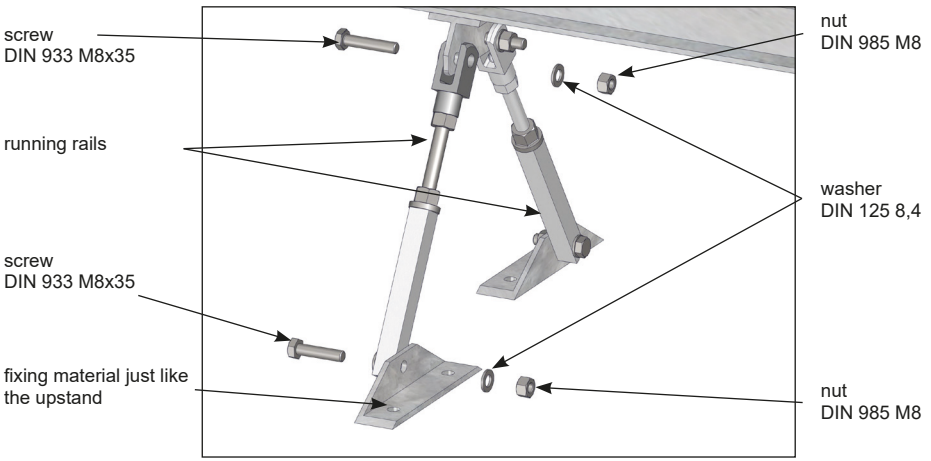
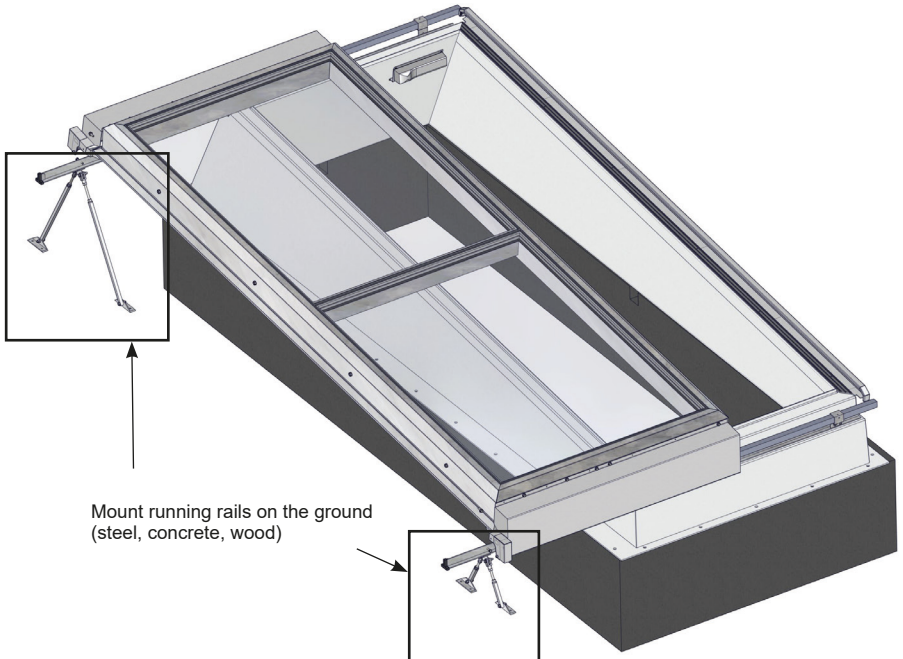


The connection may only be carried out by an expert!  
The installation regulations according to building regulations must be observed

legend:

- br brown
- bl blue
- sw black
- ws white
- gr grey
- ge yellow
- gn green
- org orange
- rs pink
- rt red

# Final assembly

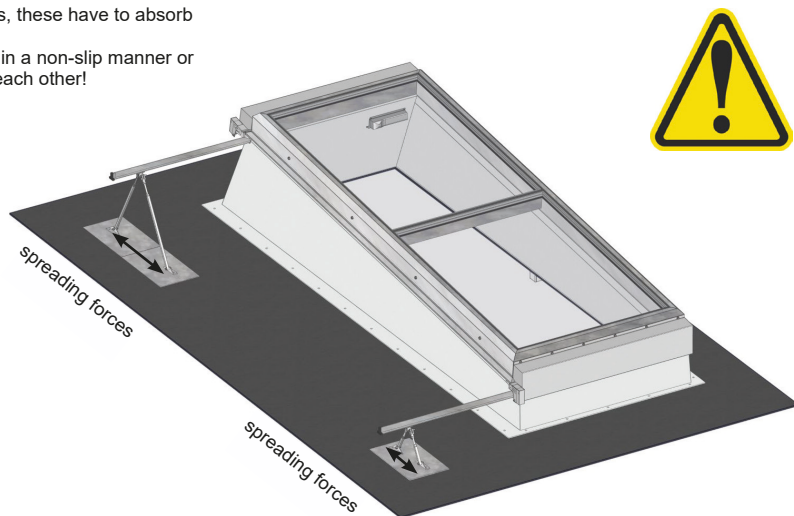




Spreading forces occur due to the load on the supporting legs!

If the two support legs are mounted on two separate walkway slabs, these have to absorb the forces.

The slabs must be laid in a non-slip manner or must be connected to each other!



## Commissioning



Never open the access hatch without first installing the guide rails!

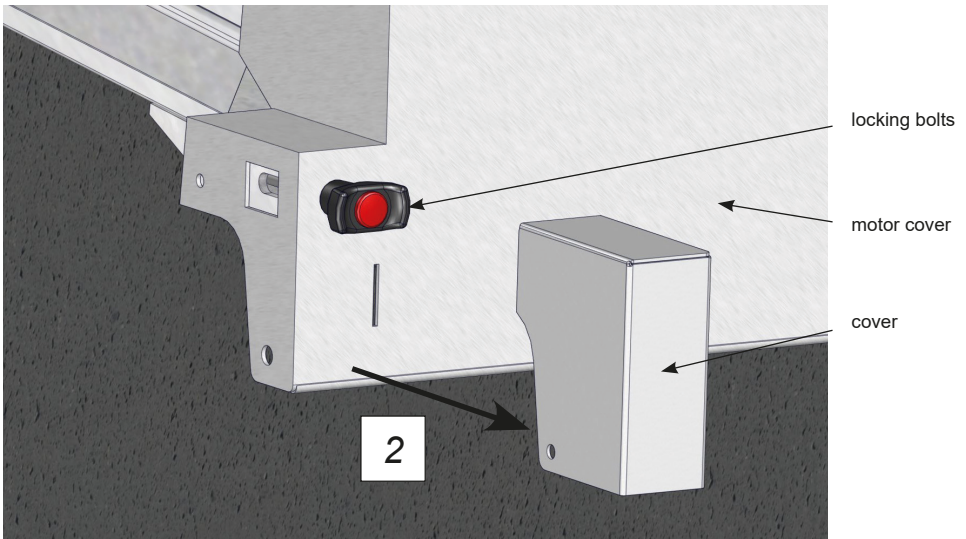
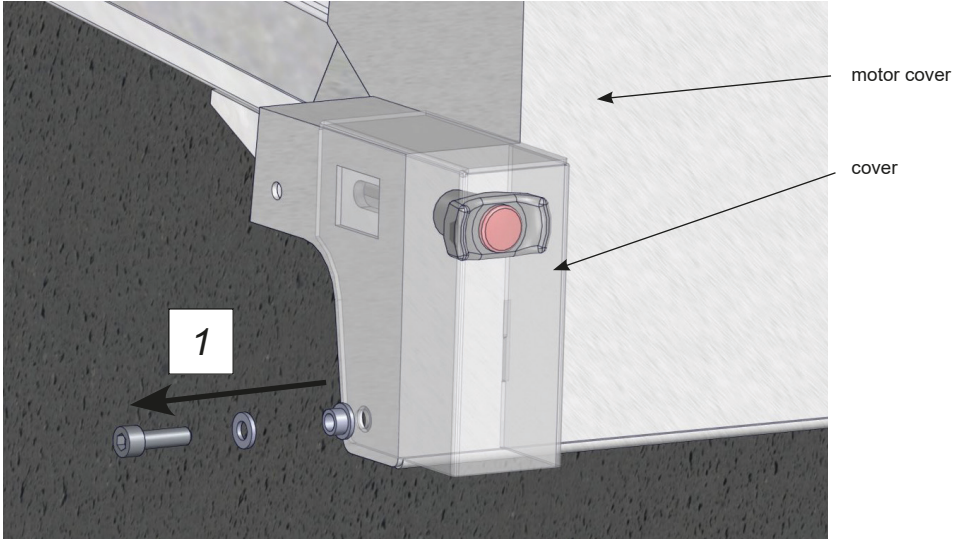
To check the functionality, open and close the flat access hatch completely

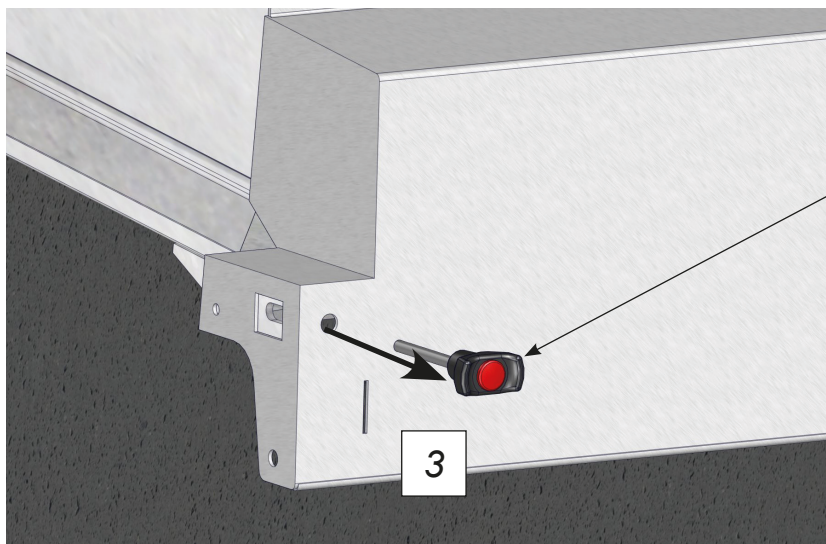
Attention: Risk of crushing!

There are no people in the moving area of the flat access hatch allowed

# Emergency closing function

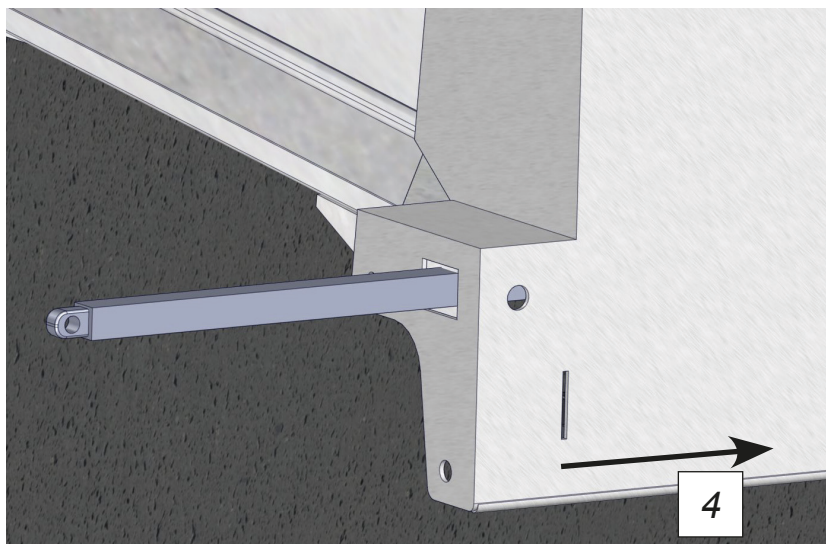
- Element can be closed manually in case of power failure or motor damage
- Locking pin with cover on ridge and eaves





remove locking bolts

3



manually moving of the flap element

4

