

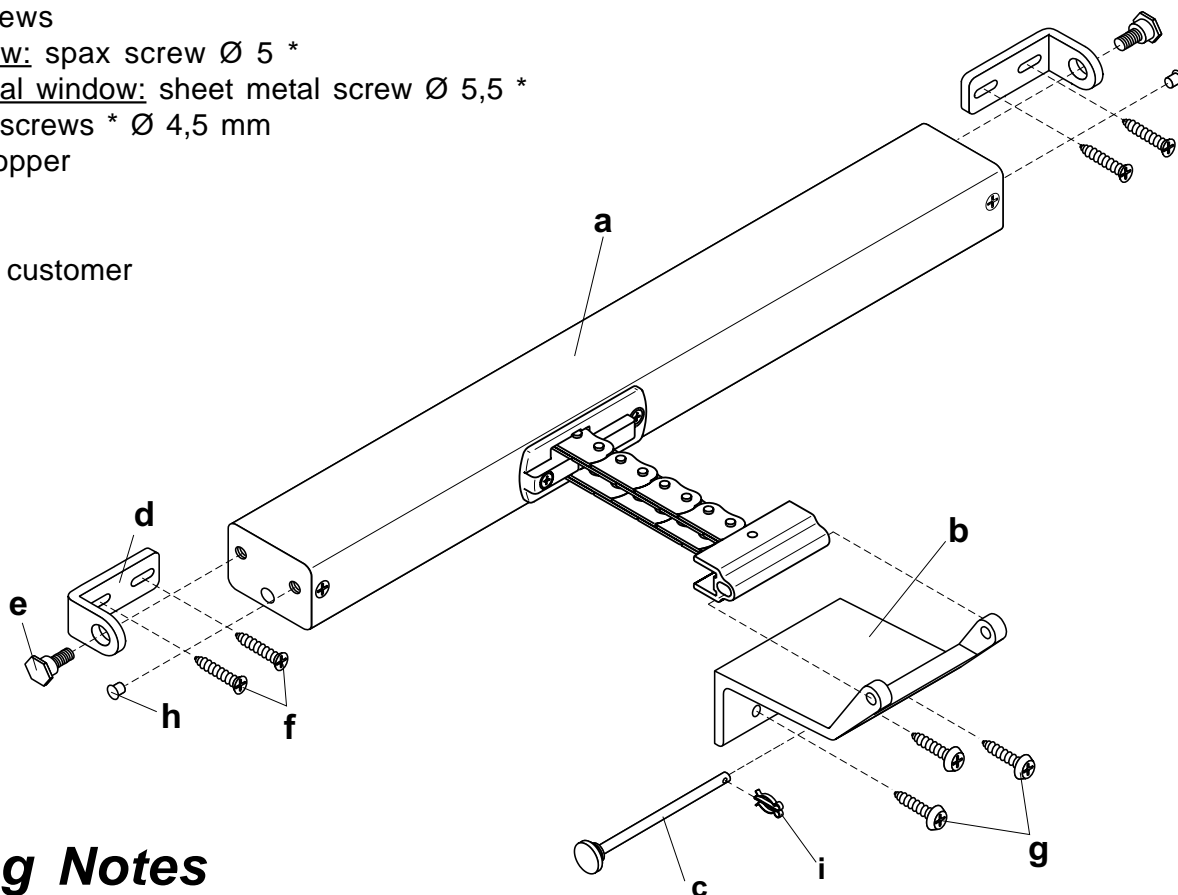


## Bracket Set RE-KA

for chain drives KA 15/32/50

- a Chain drive
- b Wing bracket
- c Bracket pin
- d Drive bracket
- e Bearing screws
- f wood window: spax screw Ø 5 \*
- plastic-/ metal window: sheet metal screw Ø 5,5 \*
- g Tallow-drop screws \* Ø 4,5 mm
- h Covering stopper
- i Cotter pin

\* provided by customer



## Mounting Notes

- Remove locking latches if necessary and replace fittings (at hoppers), which limit opening width, by safety shears.
- The stiff backside of the chain (cable outlet on top) must point upward in case of mounting on a turning sash. **Therefore, no possibility of using white and yellow mounting template on the opposite side with mounting.** (Mark brackets manually.)
- Underfill lateral drive brackets, when wing step to window frame is >20mm.
- Drive must run easily over entire stroke length.
- Drive must disconnect by internal electronic load cutoff.
- Window must shut tightly and safe.

## Safety Notes

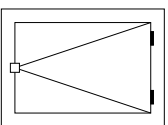
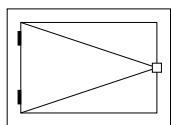
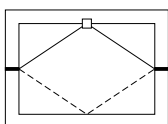
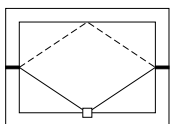
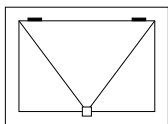
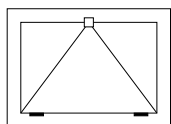
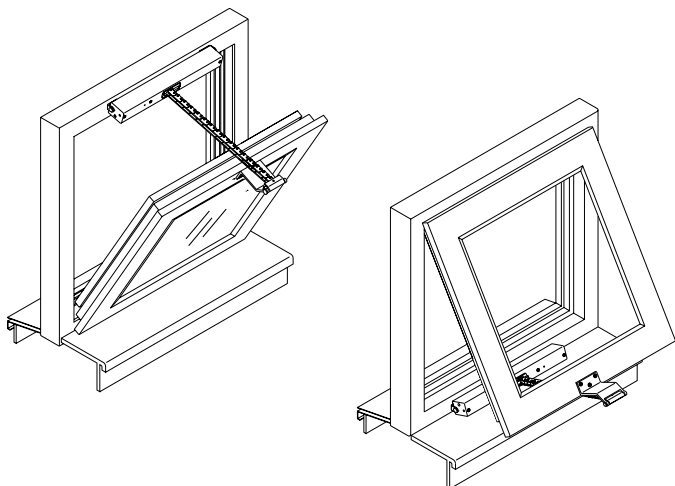
A safety shear has to be installed in addition to the window drive at hoppers, opening inwards or outwards, which is to limit (arresting position) tilting motion of the hopper after the drive is unhinged, e.g. for window cleaning, and it is to protect the wing against tilting down.

Arresting position must be a little larger than opening width of the drive.

The safety shear must be installed before the drive is mounted!

## Application

Bracket set RE-KA for KA 15/32/50 for mounting on frame.

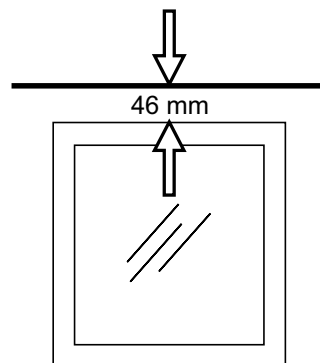


**white template**  
(art. No 68.700.01)

**yellow template**  
(art. No 68.700.22)

## Space required

Minimum space required on window frame: 46 mm. Use bracket set F-KA (drive mounted on wing) with dimensions < 46 mm.



## Wing Height

The drive chain must not lie on edge of wing in open condition, therefore following minimum wing heights or at turning sashes wing widths have to be observed.

| Stroke | min. wing height |
|--------|------------------|
| 250 mm | 360 mm           |
| 350 mm | 500 mm           |
| 500 mm | 720 mm           |
| 600 mm | 864 mm           |
| 800 mm | 1.152 m          |

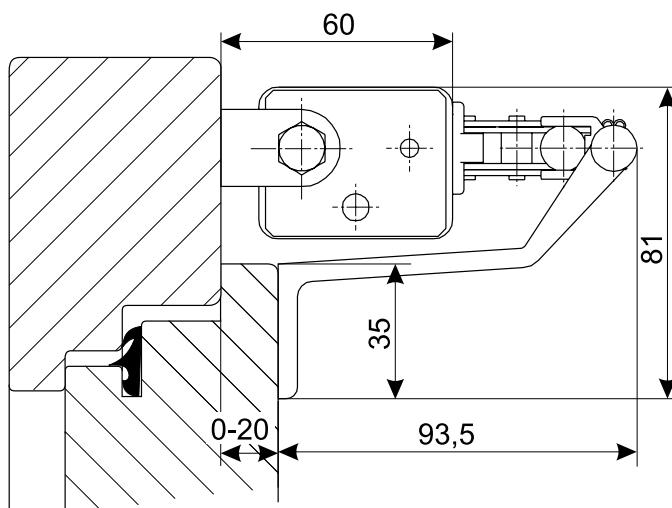
## Guarantee

You will get **2 years** guarantee for all D+H products from date of verified handing over of the system up to maximal 3 years after date of delivery, when mounting and starting has been carried out by a D+H authorized **distributor**.

D+H guarantee is expired, with connection of D+H components with external systems or with mixing of D+H products with parts of other manufacturers.

## Dimensions

Projection: mounted on top



# Mounting

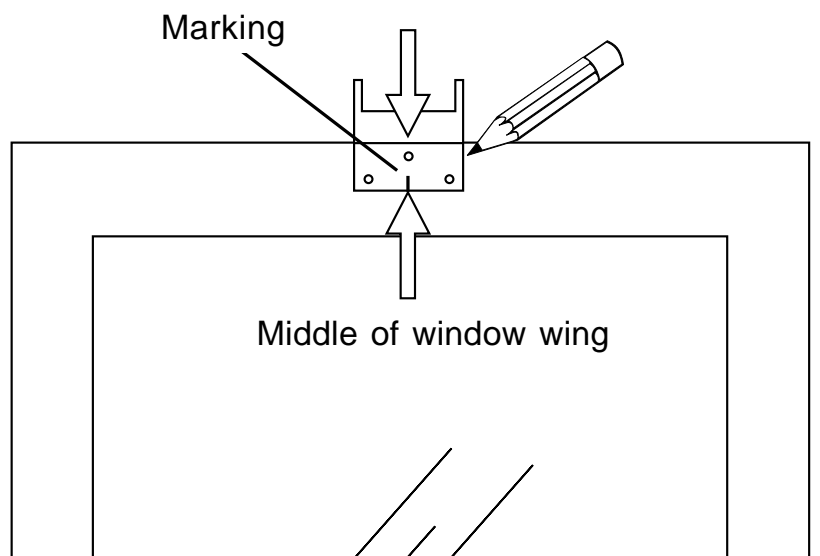
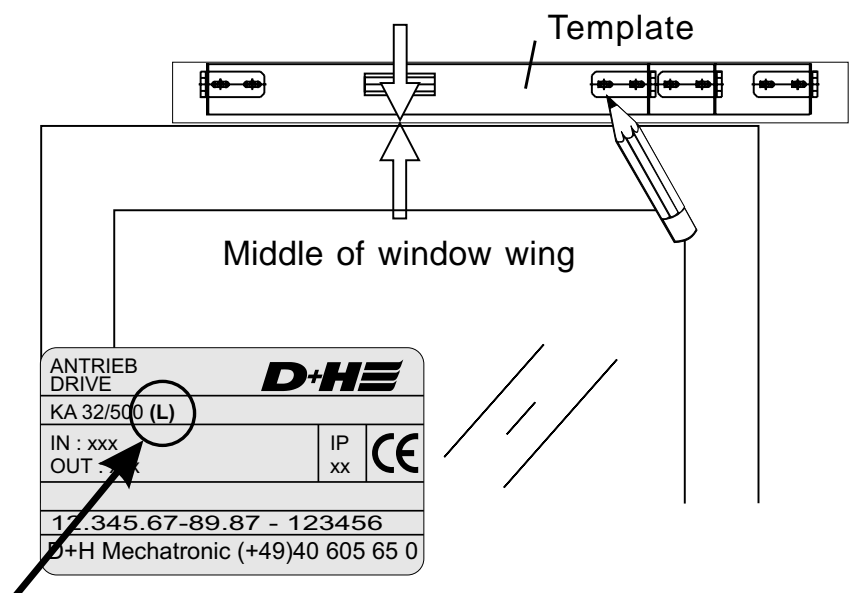
**1** Mark borings for drive brackets **(d)**, according to stroke, with enclosed template.

|                        |
|------------------------|
| <b>Standard drive:</b> |
| <b>white template</b>  |
| (art. No 68.700.01)    |

|                            |
|----------------------------|
| <b>mirrored drive (L):</b> |
| <b>yellow template</b>     |
| (art. No 68.700.22)        |

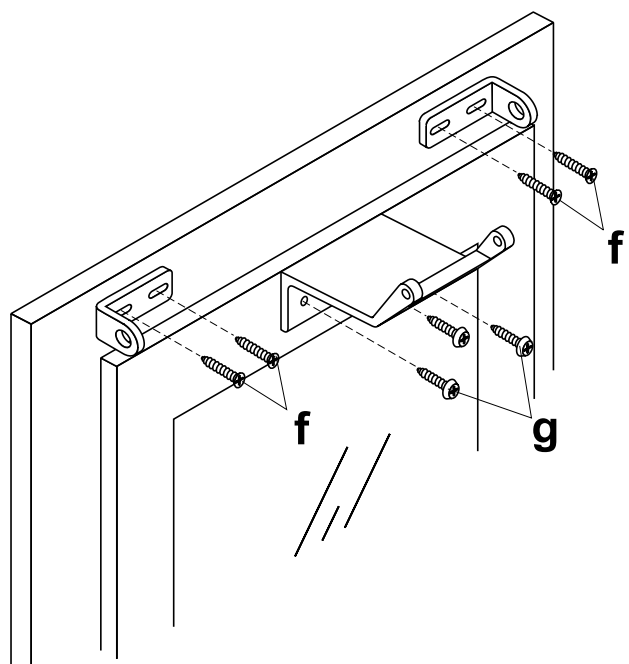
Designation of drive types, see rating plate.

**2** Put wing bracket **(b)** against upper edge of window wing, and mark borings.



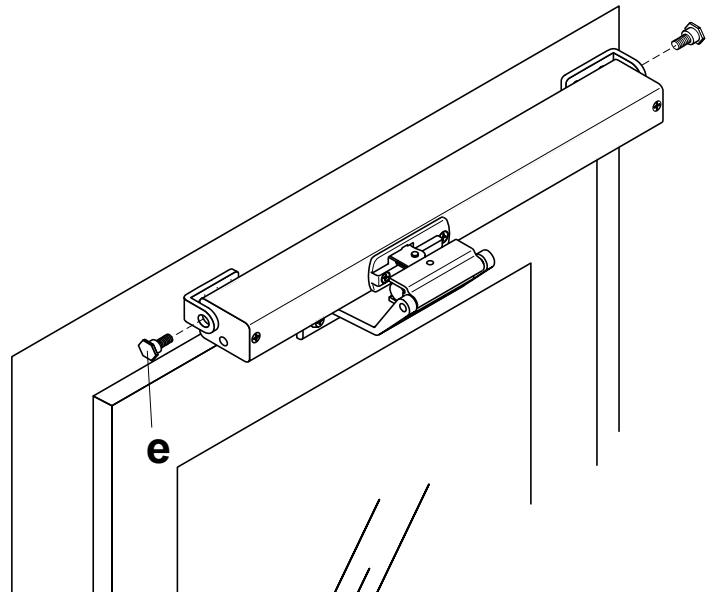
**3** Screw brackets at the window.

**Attention:** pay attention to sufficient length of screws!

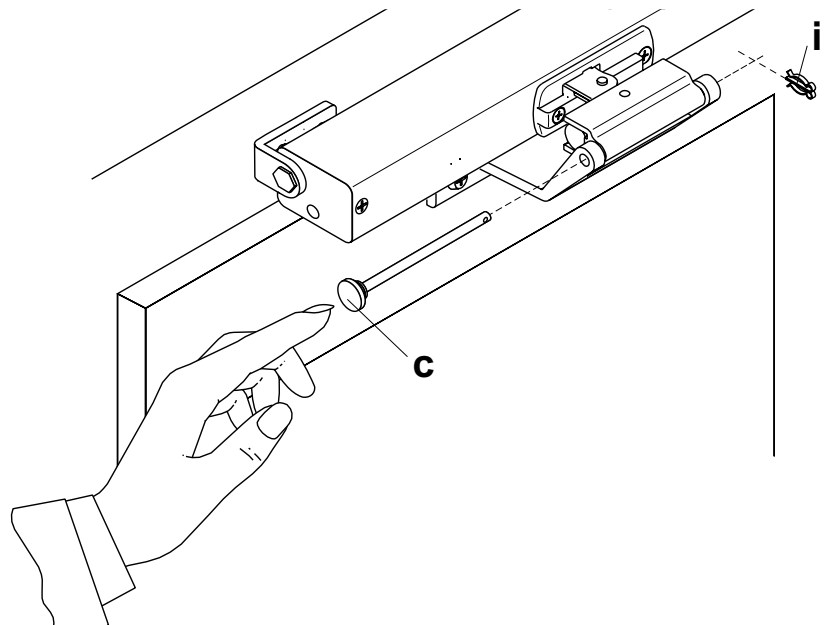


# Mounting

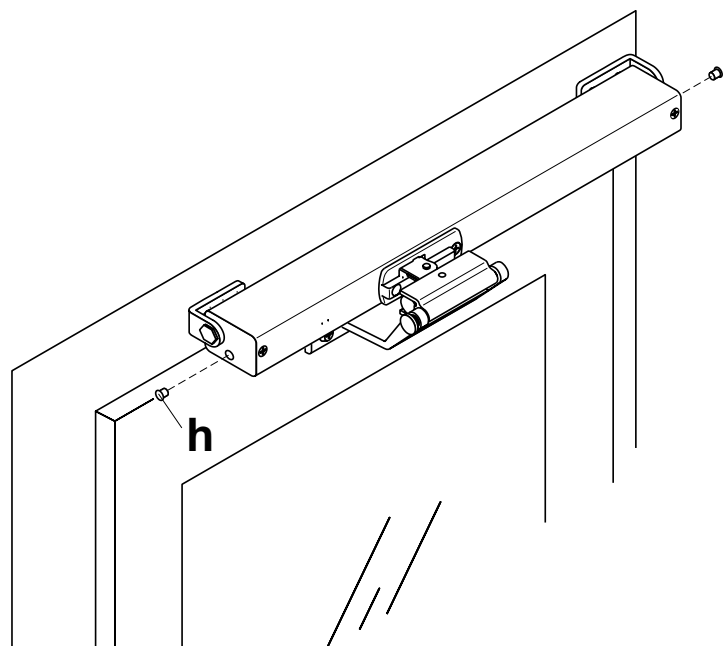
**4** Mount chain drive in drive brackets with bearing screws.



**5** Mount chain tail-piece with bracket pin in wing bracket. Safeguard bracket pin with cotter pin.



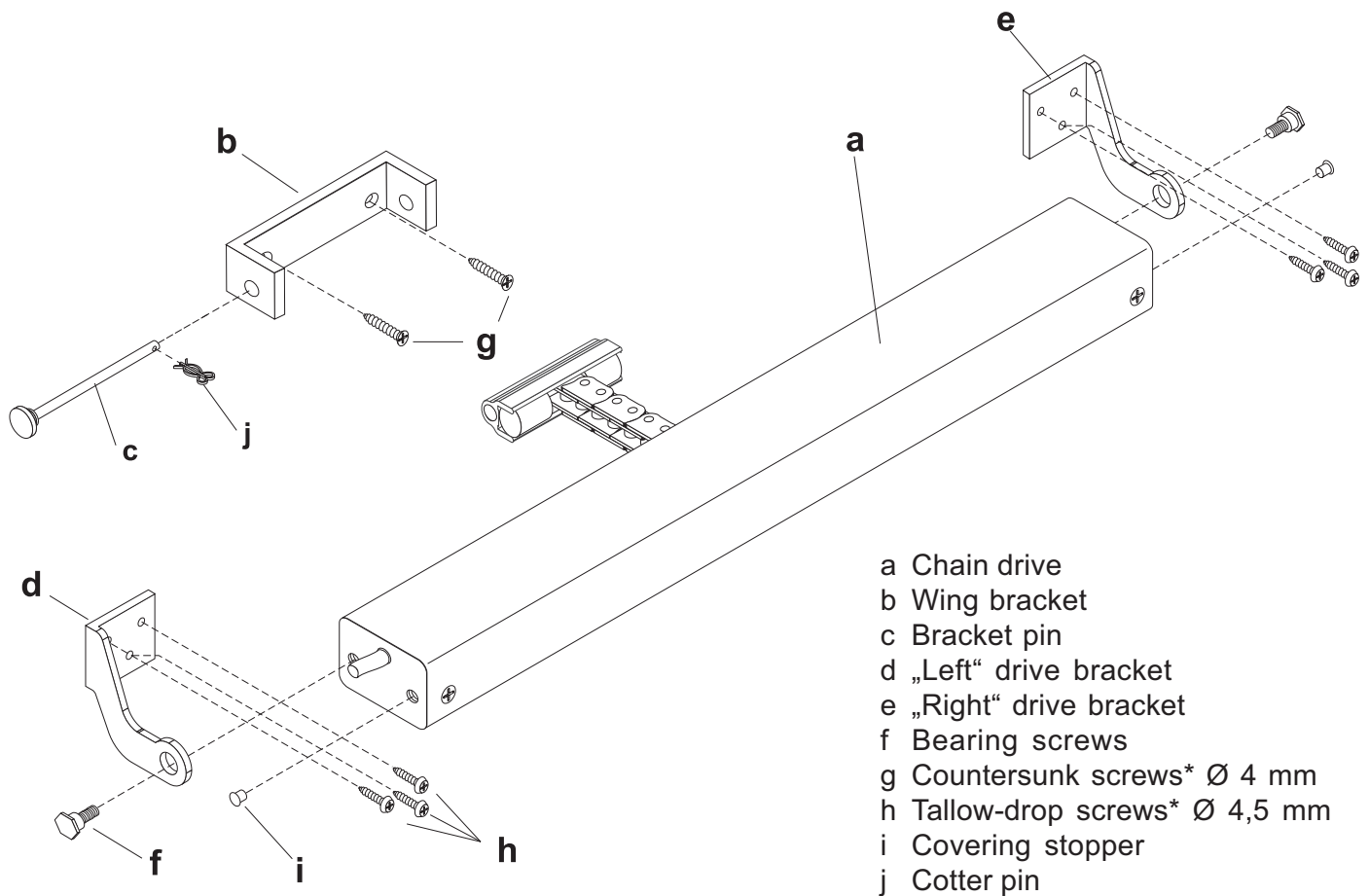
**6** Put covering stoppers in unused fastening borings.





## Bracket Set RA-KA

for chain drives KA 15/32/50



- a Chain drive
- b Wing bracket
- c Bracket pin
- d „Left“ drive bracket
- e „Right“ drive bracket
- f Bearing screws
- g Countersunk screws\* Ø 4 mm
- h Tallow-drop screws\* Ø 4,5 mm
- i Covering stopper
- j Cotter pin

\* provided by customer

## Safety Notes

A safety shear has to be installed in addition to the window drive at hoppers, opening inwards or outwards, which is to limit (arresting position) tilting motion of the hopper after the drive is unhinged, e.g. for window cleaning, and it is to protect the flap against tilting down.

Arresting position must be a little larger than opening width of the drive.

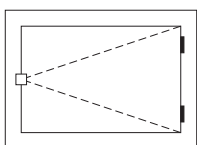
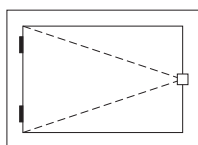
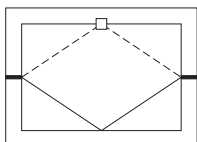
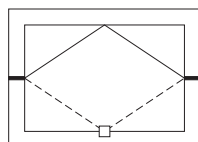
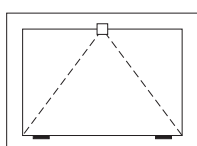
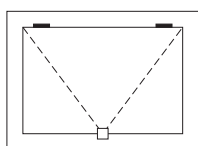
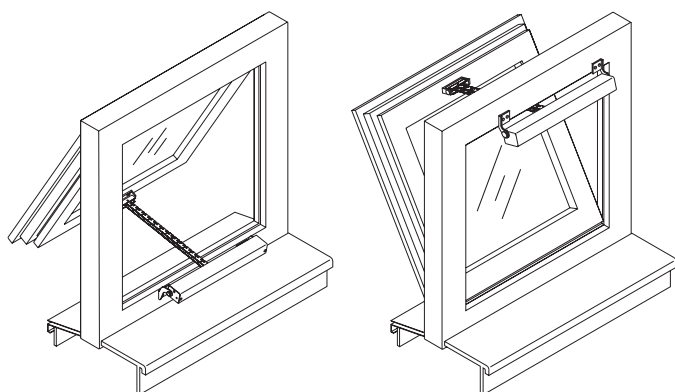
The safety shear must be installed before the drive is mounted!

## Mounting Notes

- Remove locking latches, if necessary, and replace fittings (at hoppers), which limit opening width, by safety shears.
- Underfill wing bracket, when wing step to window frame is >20mm.
- Drive must run easily over entire stroke length.
- Drive must disconnect by internal electronic load cutoff.
- Window must shut tightly and safe.
- The stiff backside of the chain (cable outlet on top) must point upward in case of mounting on a turning sash.

## Application

Bracket set RA-KA for KA 15/32/50 for mounting on frame.

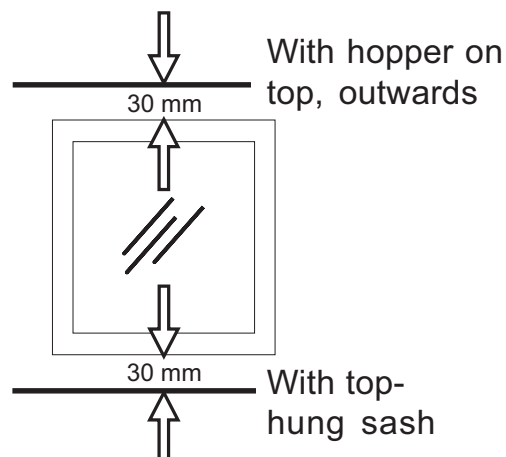


Drive with  
**white template**  
(art. No 68.700.01)

Drive with  
**yellow template**  
(art. No 68.700.22)

## Space required

Minimum space required on window frame:  
30 mm.



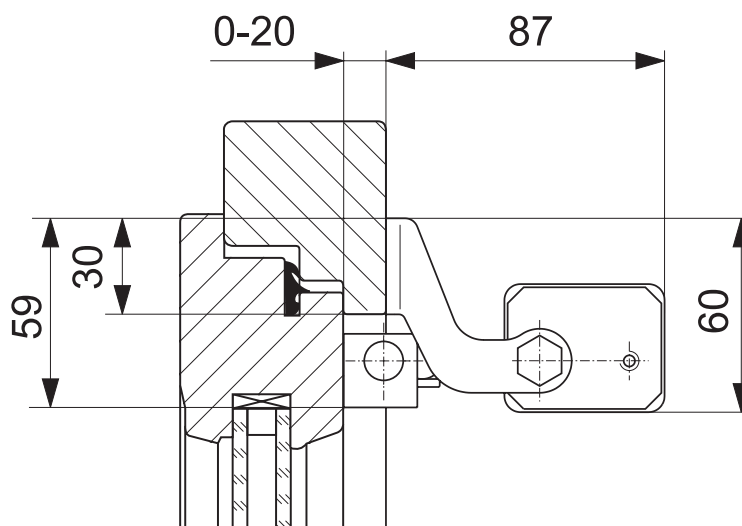
## Guarantee

You will get **2 years** guarantee for all D+H products from date of verified handing over of the system up to maximal 3 years after date of delivery, when mounting and starting has been carried out by a D+H authorized **distributor**.

D+H guarantee is expired, with connection of D+H components with external systems or with mixing of D+H products with parts of other manufacturers.

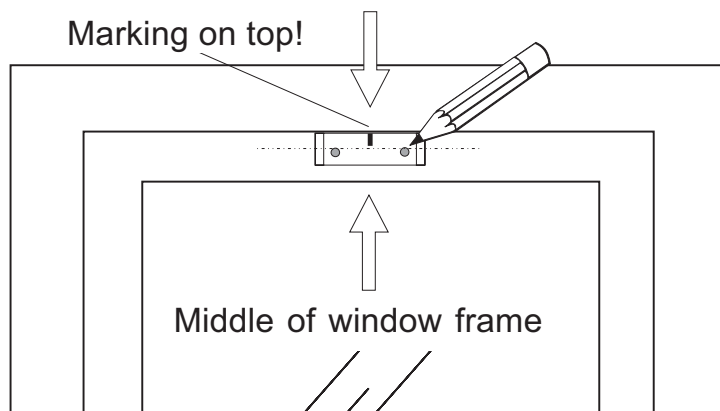
## Dimensions

Projection: mounted at bottom

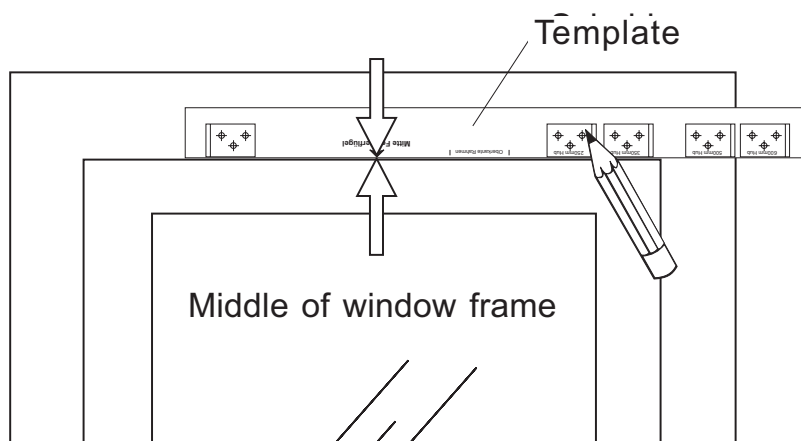


# Mounting

**1** Put wing bracket (**b**) against lower edge of window frame, and mark borings at wing, pilot-drill if necessary.



**2** Put template against lower edge of window frame, mark borings for drive brackets (**d+e**), pilot-drill, if necessary.



**Standard drive:**

**white template**

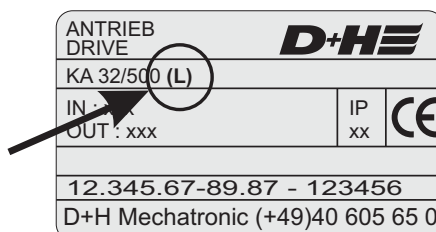
(art. No 68.700.01)

**mirrored drive (L):**

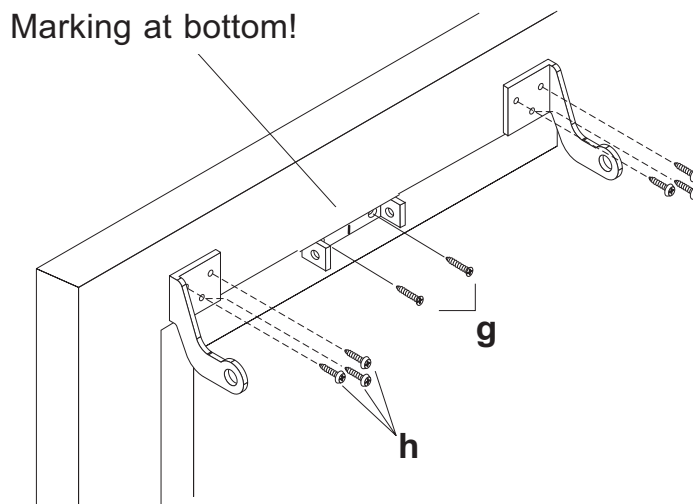
**yellow template**

(art. No 68.700.22)

Designation of drive types, see rating plate.

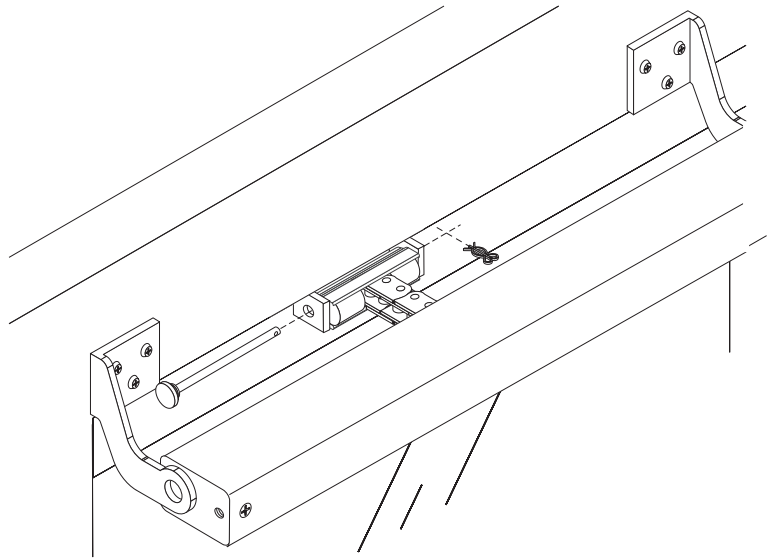


**3** Mount wing bracket (with marking at bottom) on wing. Mount drive bracket on frame. **Attention:** pay attention to sufficient length of screws!

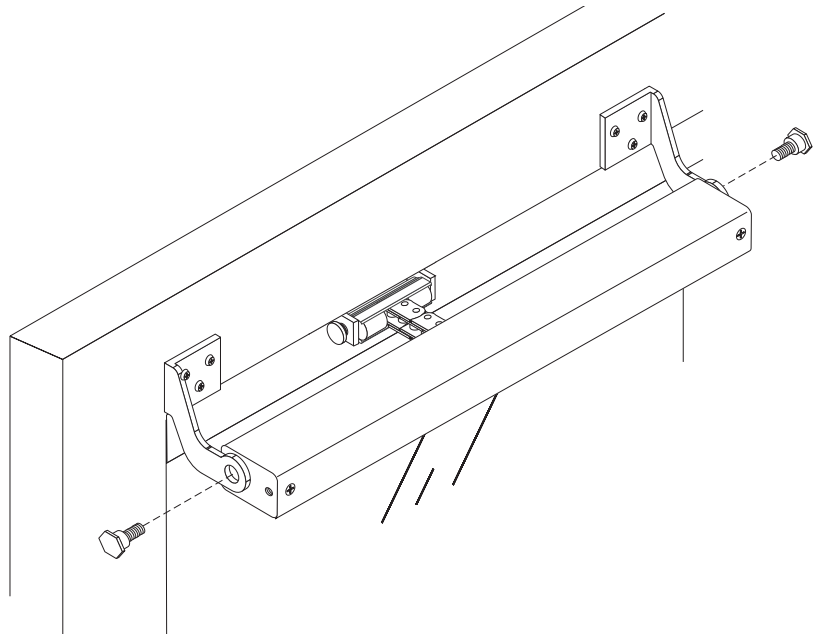


# Mounting

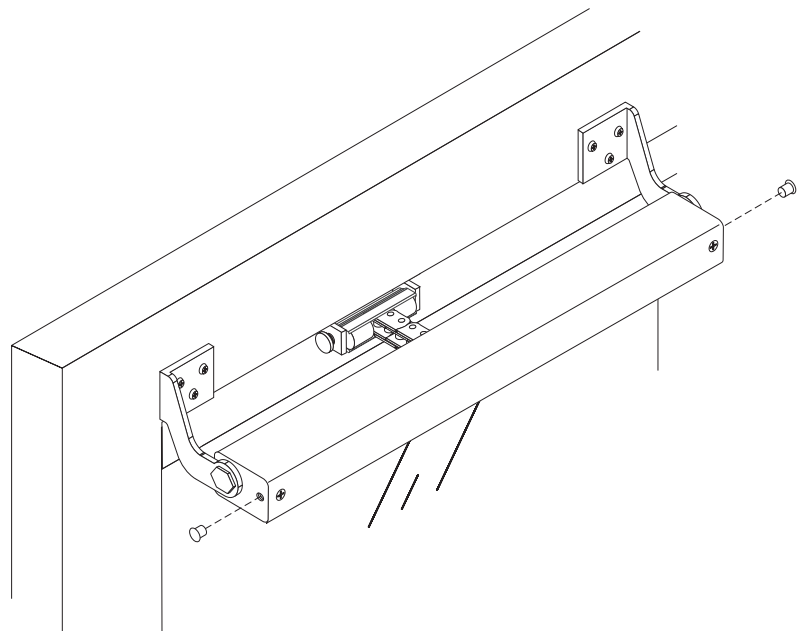
**4** Mount chain tail-piece with bracket pin in wing bracket. Safeguard the bracket pin with the cotter pin.



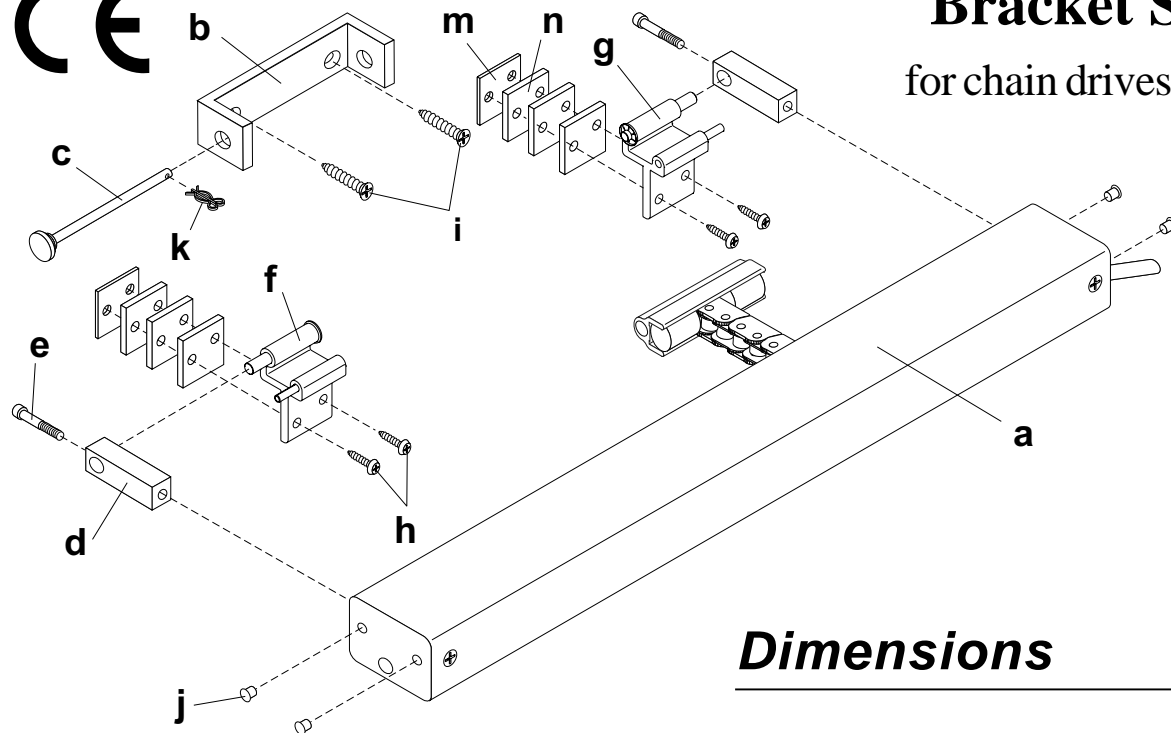
**5** Mount chain drive in drive brackets with bearing screws.



**6** Put covering stoppers in unused fastening borings.



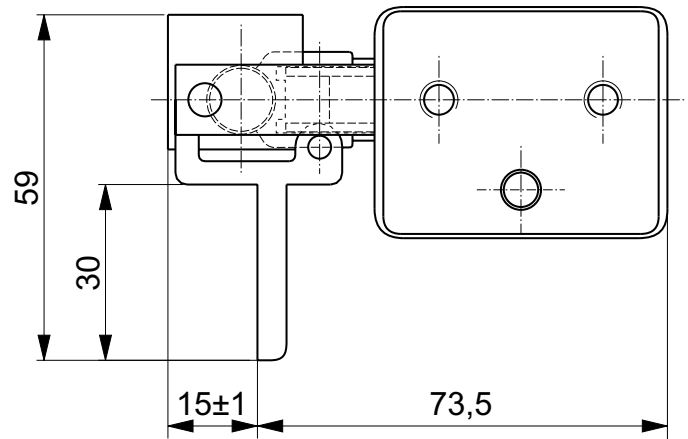




## Bracket Set F-KA

for chain drives KA 15/32/50

### Dimensions



- a Chain drive
- b Frame bracket
- c Bracket pin
- d Bracket bearing
- e Inbus screw M4x30
- f "Left" drive bracket
- g "Right" drive bracket
- h Tallow-drop screws\* Ø 4,5mm
- i Countersunk screws\* Ø 4mm
- j Covering stopper
- k Cotter pin
- m distance plate 2mm
- n distance plate 4mm

\* provided by customer

### Safety Notes

A safety shear has to be installed in addition to the window drive at hoppers, opening inwards or outwards, which is to limit (arresting position) tilting motion of the hopper after the drive is unhinged, e.g. for window cleaning, and it is to protect the flap against tilting down.

Arresting position must be a little larger than opening width of the drive.

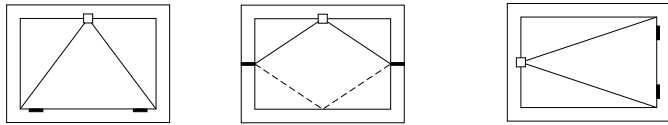
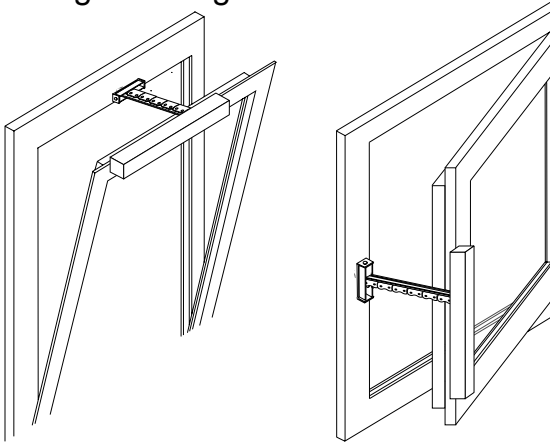
The safety shear must be installed before the drive is mounted!

### Mounting Notes

- Remove locking latches, if necessary, and replace fittings (at hoppers), which limit opening width, by safety shears.
- The stiff backside of the chain (cable outlet on top) must point to the top, when mounted on turning sash.
- Underfill frame bracket, when wing step to window frame is >20mm.
- Drive must run easily over entire stroke length.
- Drive must disconnect by internal electronic load cutoff.
- Window must shut tightly and safe.

## Application

Bracket set F-KA for KA 15/32/50 for mounting on wing.

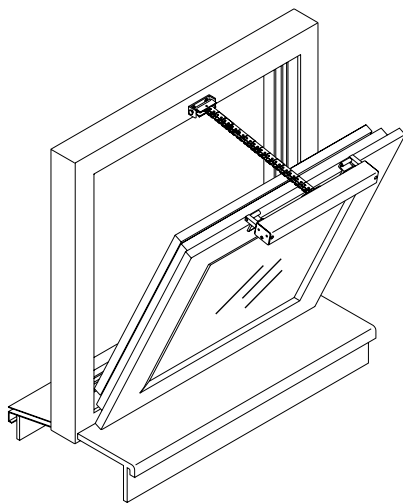


## Guarantee

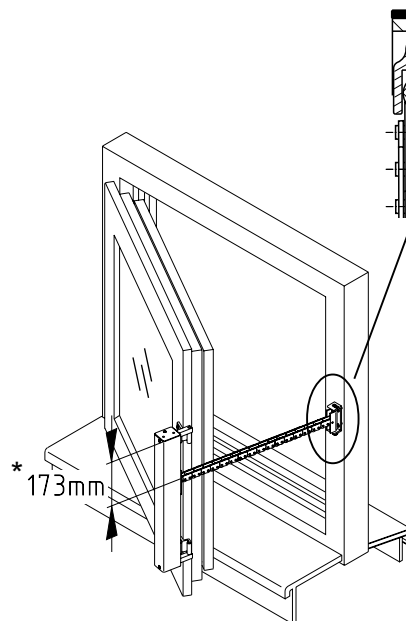
You will get **2 years** guarantee for all D+H products from date of verified handing over of the system up to maximal 3 years after date of delivery, when mounting and starting has been carried out by a D+H authorized distributor.

D+H guarantee is expired, with connection of D+H components with external systems or with mixing of D+H products with parts of other manufacturers.

## Space required



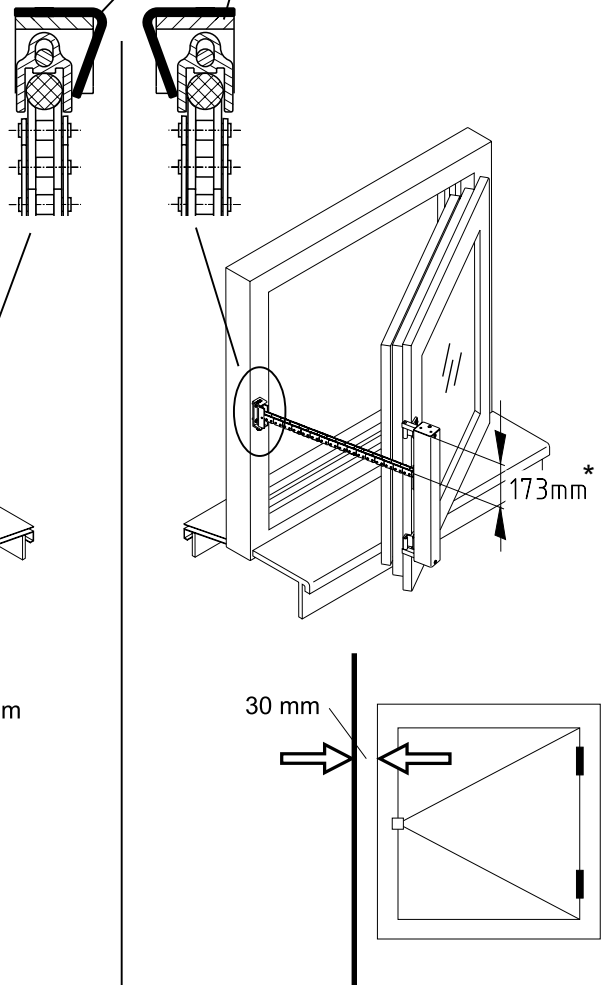
Minimum space required on window frame: **30 mm**.



Minimum space required on the right side of the window frame: **35 mm**.

**\*Pay attention to mount the drive with the side of the gear (short part) upwards.**

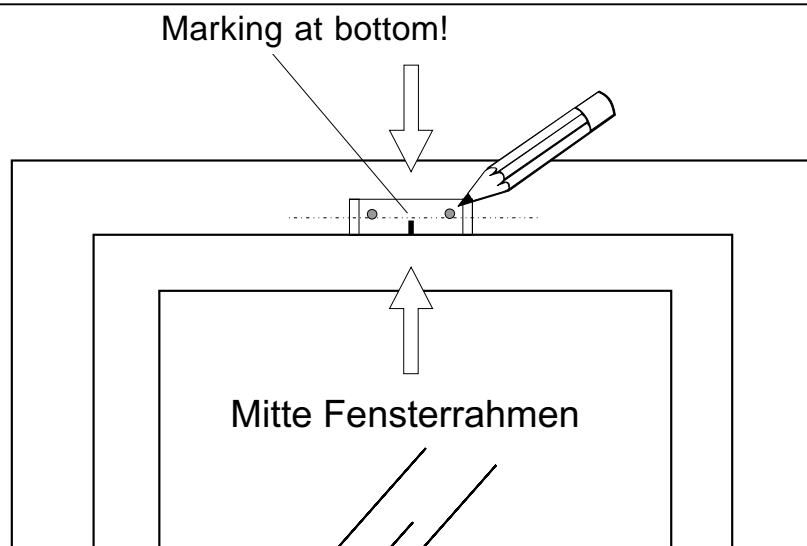
**Stop angle**  
(Art.-No 21.050.25)  
required to avoid lateral tilting!



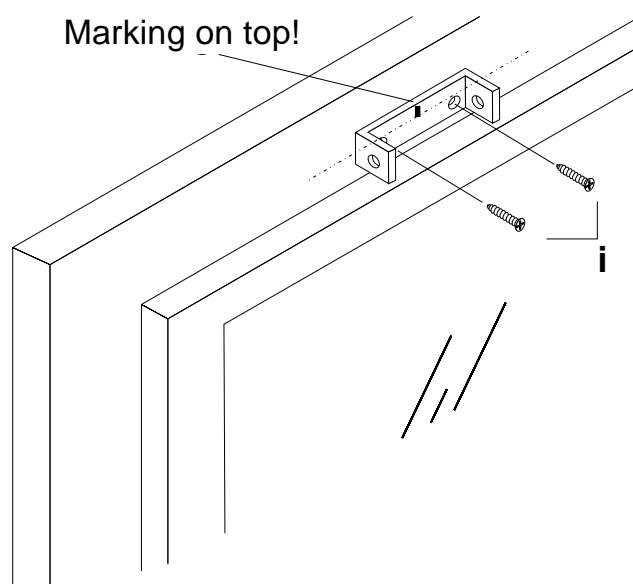
Minimum space required to the left side of the window frame: **30 mm**.

# Mounting

**1** Put frame bracket **(b)** against upper edge of window wing and mark borings; pilot-drill if necessary.



**2** Mount frame bracket (with marking on top) on frame.  
**Attention:** pay attention to sufficient length of screws!

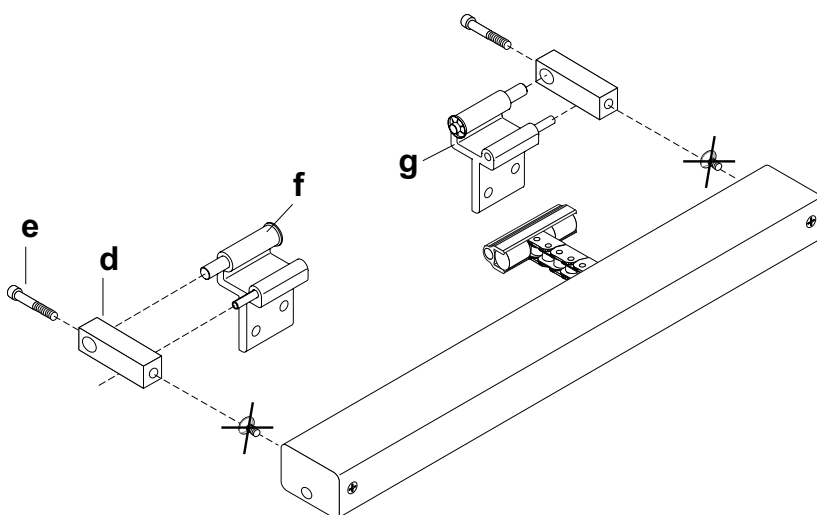


**3** Remove countersunk screws from drive and fasten bracket bearing **(d)** with inbus screws SW3 **(f)**.

## Note:

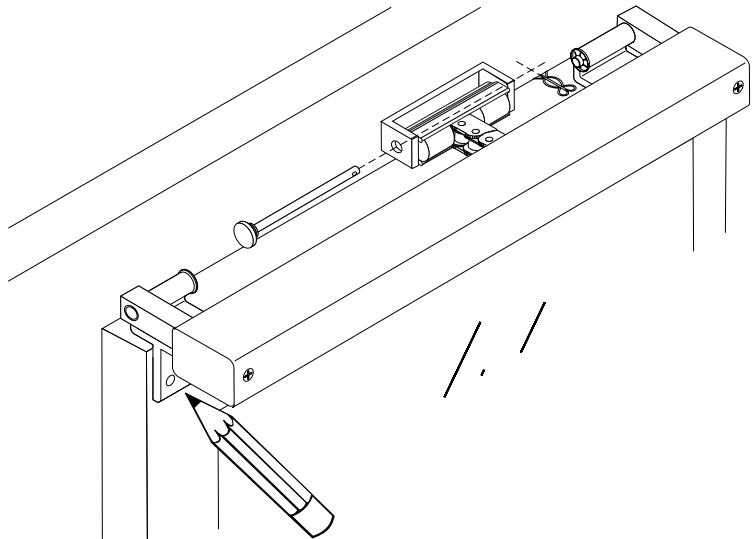
The screws must be tight fitted with an allen key tool.  
You have to feel the power you need for tighten the screw.

Hang up drive brackets **(f+g)**.

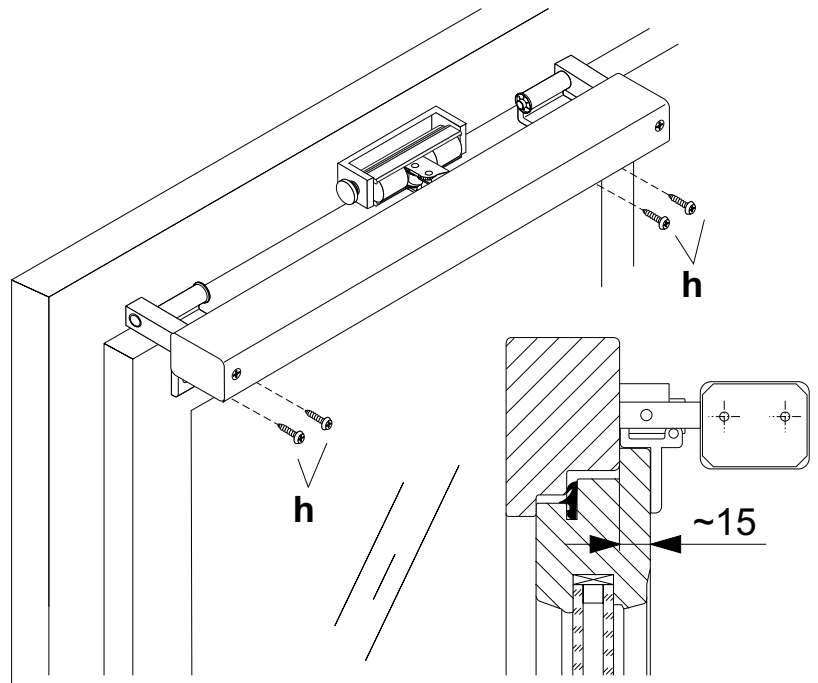
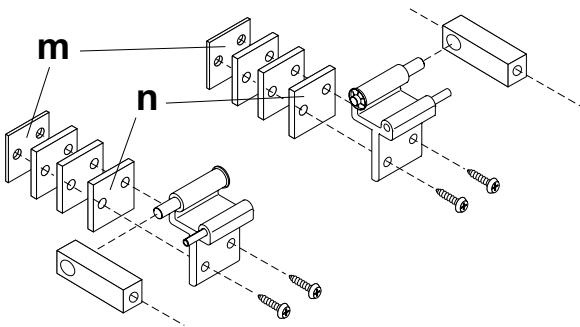


# Mounting

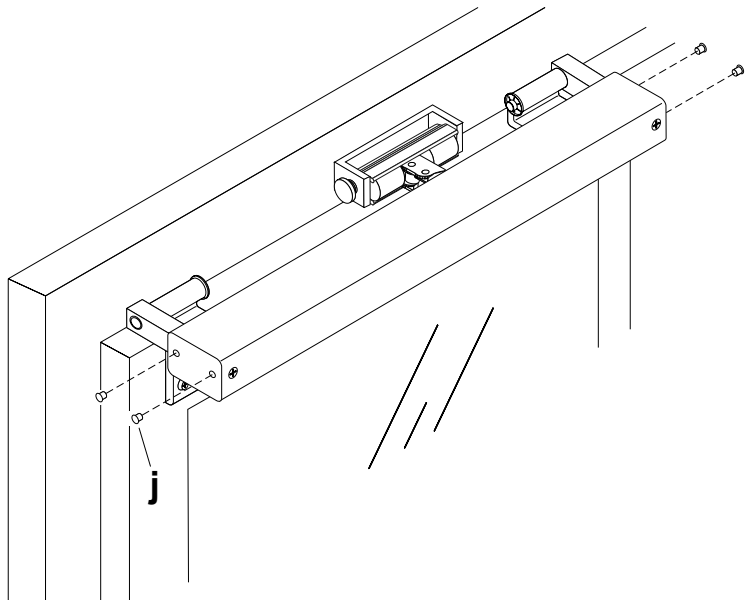
**4** Mount chain tail-piece with bracket pin in frame bracket. Safeguard the bracket pin with the cotter pin. Mark borings for drive bracket, pilot-drill if necessary.



**5** Mount drive brackets. With a wing projection of less than 15mm underfill drive brackets with enclosed distance plates (**m**, **n**) up to at least 15mm. **Attention:** pay attention to sufficient length of screws!



**6** Put covering stoppers in unused fastening borings.

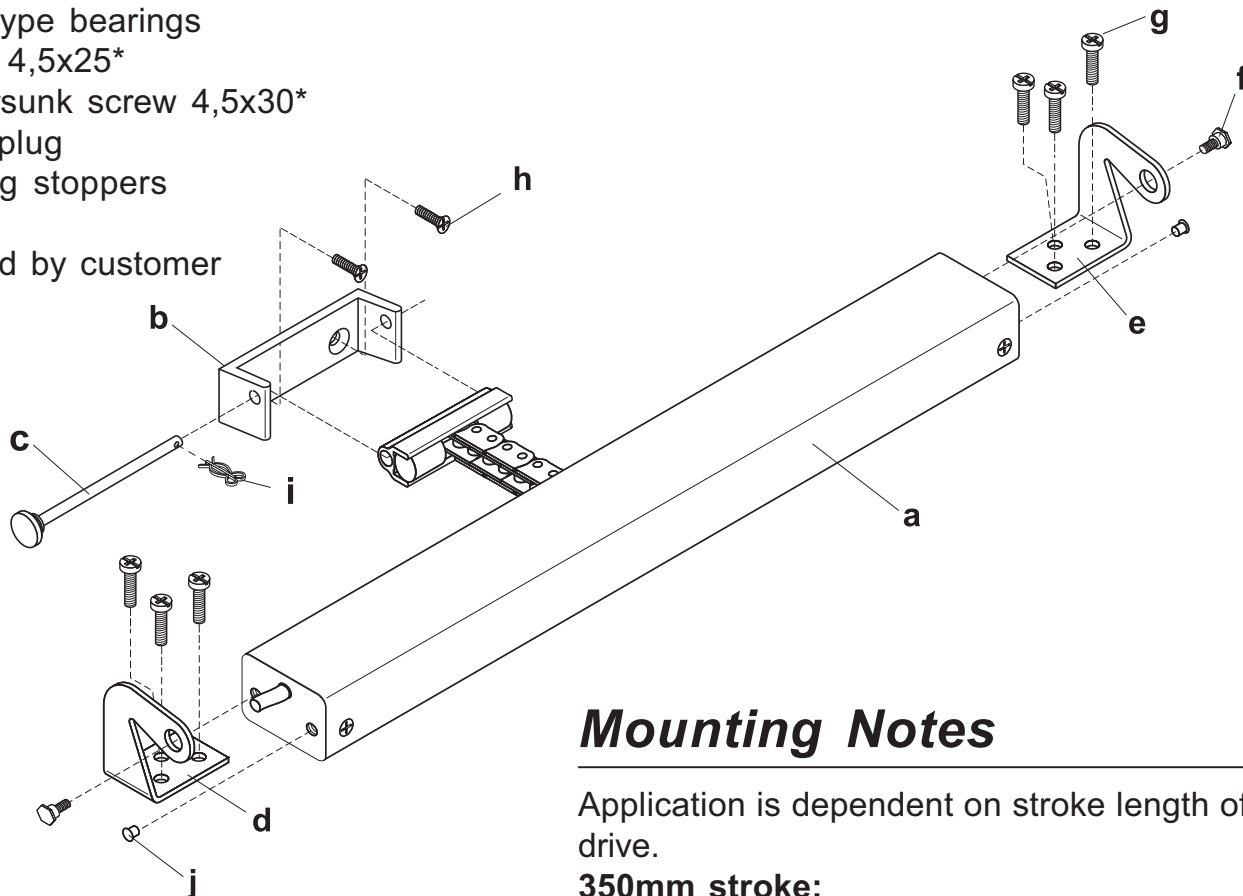


## Bracket Set RA-V

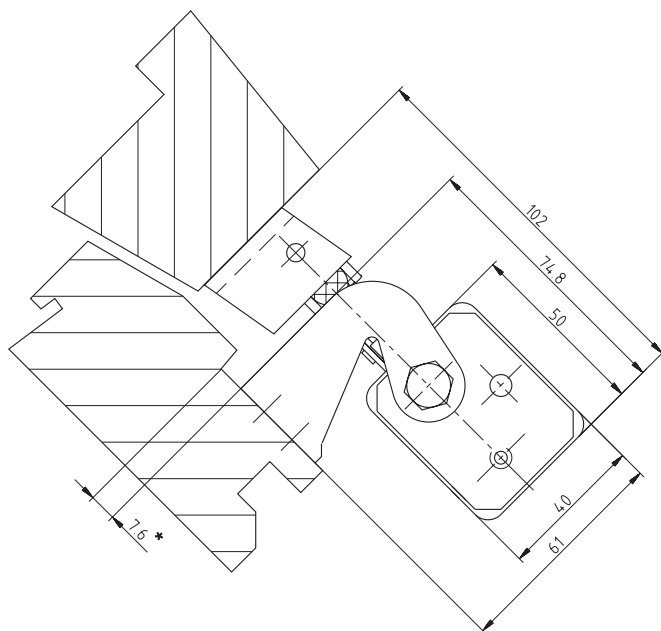
for Chain Drive KA 15/32/50 at VELUX® roof windows

- a chain drive\*
- b window wing bracket
- c bracket pin
- d left-hand bracket
- e right-hand bracket
- f screw type bearings
- g screws 4,5x25\*
- h countersunk screw 4,5x30\*
- i spring plug
- j covering stoppers

\* provided by customer



## Dimensions



\* with plastic windows +15mm

## Mounting Notes

Application is dependent on stroke length of drive.

**350mm stroke:**

for all window types starting from size 104

**500mm stroke:**

for all window types starting from size 304

**Note:**

Mounting is not possible with window type GTL and sound insulation windows class 4.

## Guarantee

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D+H guarantee is expired, with connection of D+H components with external systems or with mixing of D+H products with parts of other manufacturers.

# Mounting

## 1 Only GGL / GGU / VL.

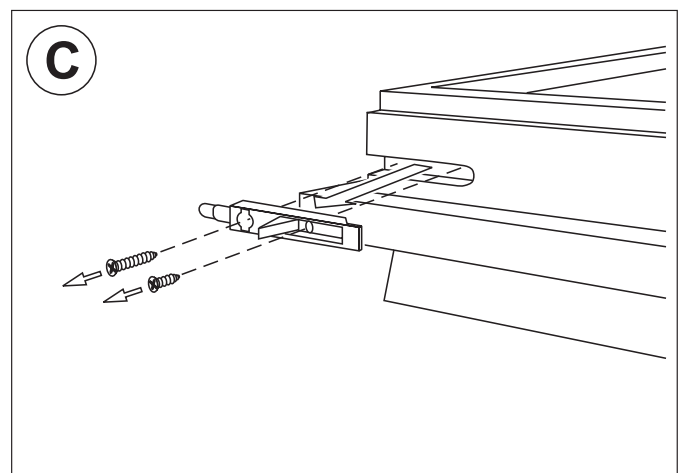
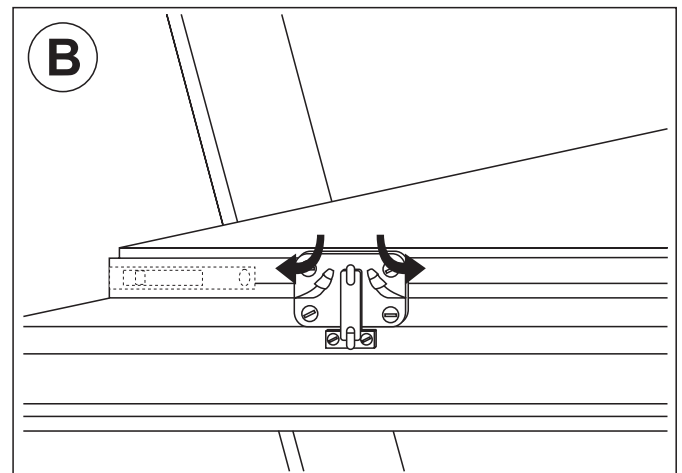
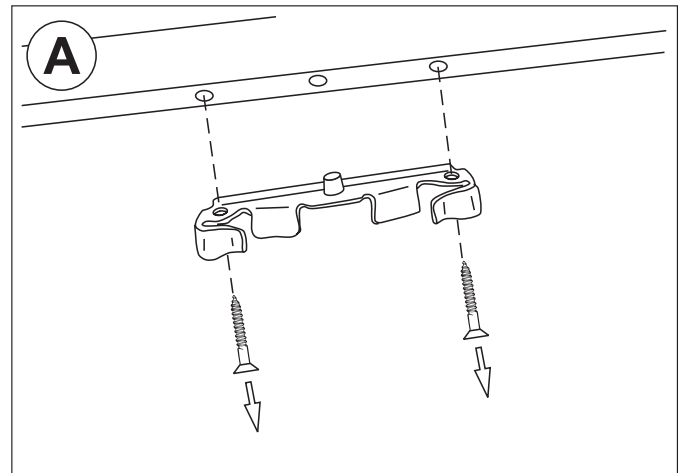
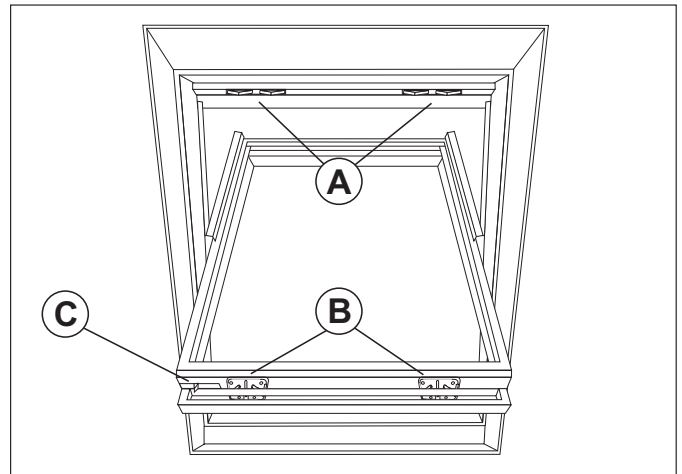
Lock fittings of windows must be dismantled or put out of action for ensuring safe functioning of the chain drive.

Remove nab.

In case of windows with two nabs, remove both of them.

Press simultaneously both lifters at the lock of the window wing in direction of arrow.  
Close ventilation flap.  
The lock is put out of action.

Remove bay rail or safeguard it with scotch tape.

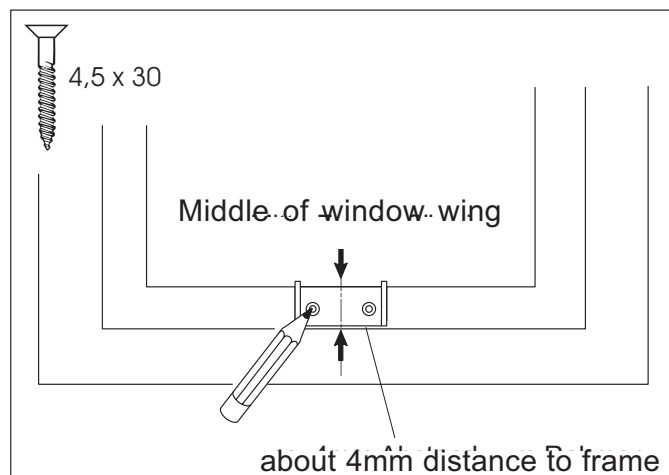


# Mounting

## 2 Only GGL / GGU / VL.

Put wing bracket against the middle of the window wing and mark borings. (Observe distance!)

Pilot-drill if necessary.

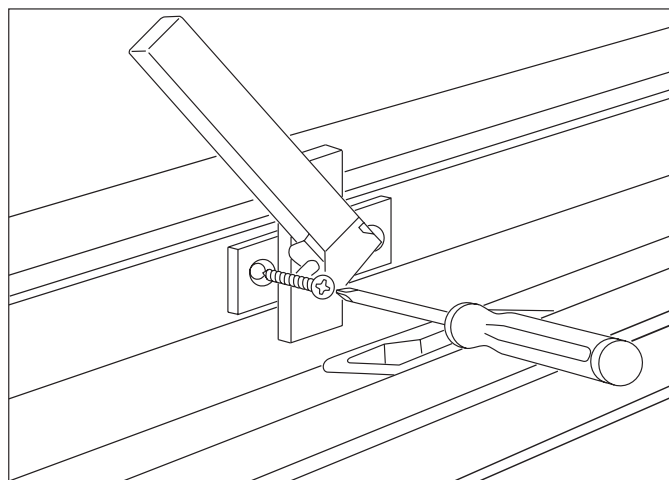


## 3 Only GPL / GPU.

Turn handle in opening position.

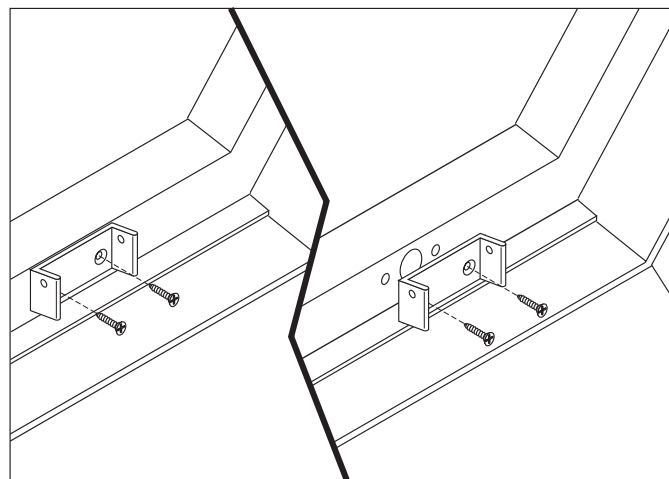
Lift cover slightly and turn it by 90°.

Open window and screw off the handle.

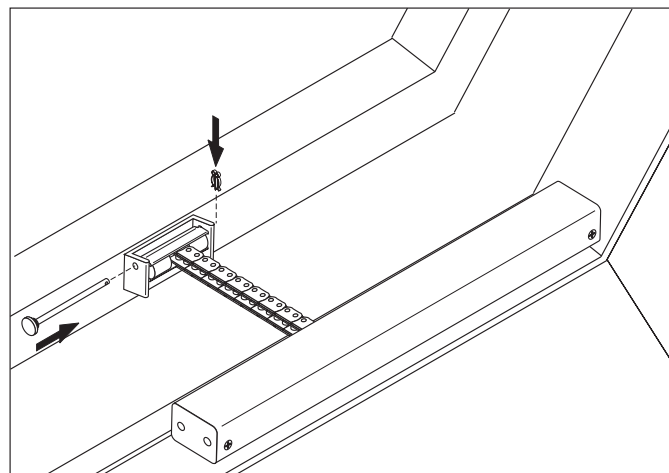


## 4 GGL / GGU / VL: Fasten wing bracket at window wing with countersunk screws.

**GPL / GPU:** Fasten wing bracket with the screws of the handle in existing screw holes.



## 5 Fasten chain-tail piece in wing bracket with bracket pin and safeguard with spring plug.



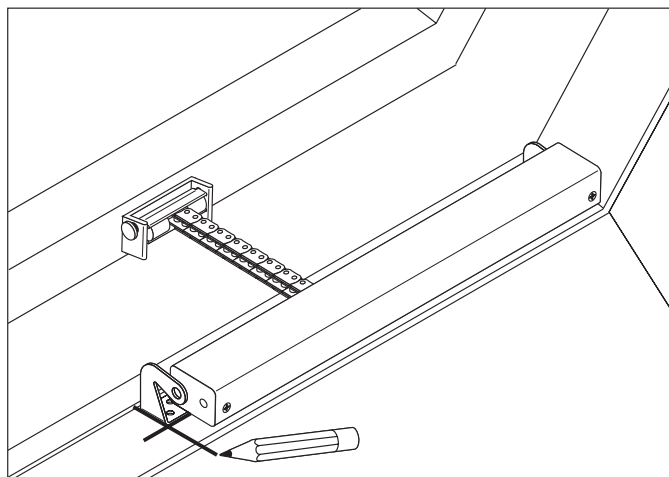
# Mounting

**6** Screw-in handtight screw type bearings, hang up lefthand and righthand drive bracket, and mark position of brackets.

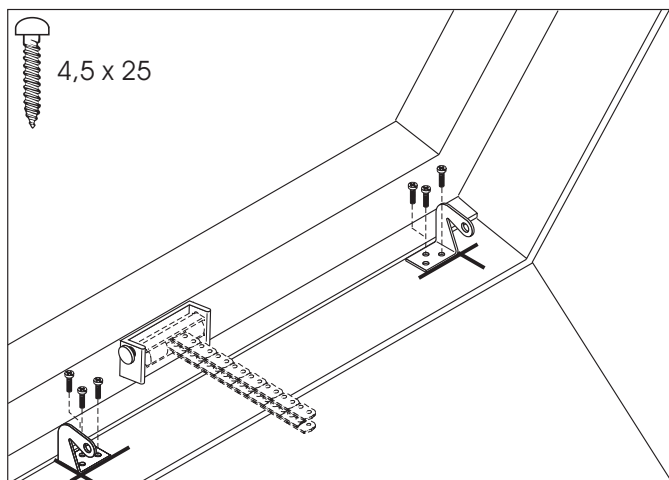
**Attention!**

**Observe dimensions on page 1.**

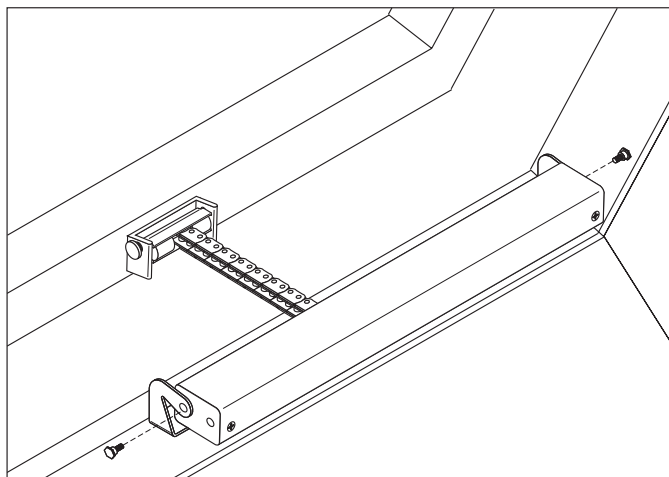
Remove screw type bearings.



**7** Put drive brackets against marking, and mark borings, pilot-drill if necessary. Screw down lefthand and righthand drive bracket.



**8** Mount drive in drive brackets with the screw type bearings.



**9** Put covering stoppers in unused fastening borings.

Connect connection cable in branch box.  
Lay cables according to table for layout of cables up to branch box (see instruction for use of control panel).

