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## **Installation instructions**

# **EXTERNAL ROLLER BLIND - PROSCREEN**

**HISTORY**

Date	Version	Comment
05-2014	1.0	New release

# INHOUD

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# GENERAL INFORMATION

## WIND RESISTANCE CLASS

Type of product	Surface (m <sup>2</sup> )	Class	Maximum width (mm)	Maximum height (mm)
PS 57C CH A – PS 57C CH C	3,4	na	1600	3500
PS 75C CO A – PS 75C CO C – PS 75S CO A – PS 75S CO C	2,5	na	2800	2700
PS 75C TA A – PS 75C TA C – PS 75S TA A – PS 75S TA C	7,3	na	2800	2700
PS 75C CH A – PS 75C CH C – PS 75S CH A – PS 75S CH C	9,2	na	2800	3400
PS 75C EL A – PS 75C EL C – PS 75S EL A – PS 75S EL C	9,2	na	2800	3400
PS 85C TA A – PS 85C TA C – PS 85S TA A – PS 85S TA C	7,3	na	2800	2700
PS 85C CH A – PS 85C CH C – PS 85S CH A – PS 85S CH C	9,2	na	2800	3400
PS 85C EL A – PS 85C EL C – PS 85S EL A – PS 85S EL C	10	na	3600	4000
PS 95S EL A – PS 95 EL C	10	na	3600	4000

## REMARKS

Carefully read this manual before using or installing your external roller blind. Follow the contents of it and keep this manual for reference.

This manual simply describes the rules governing use and installing of the external roller blind in the following designs:

Operation using operating cord, type:

PS 75C CO A – PS 75C CO C – PS 75S CO A – PS 75S CO C

Operation using operating tape, type:

PS 75C TA A – PS 75C TA C – PS 75S TA A – PS 75S TA C – PS 85C TA A – PS 85C TA C – PS 85S TA A – PS 85S TA C

Operation using operating rod, type:

PS 57C CH A – PS 57C CH C – PS 75C CH A – PS 75C CH C – PS 75S CH A – PS 75S CH C – PS 85C CH A – PS 85C CH C – PS 85S CH A – PS 85S CH C

Operation using electric motor, type:

PS 75C EL A – PS 75C EL C – PS 75S EL A – PS 75S EL C – PS 85C EL A – PS 85C EL C – PS 85S EL A – PS 85S EL C – PS 95S EL A – PS 95 EL C

If there is something in this manual that you do not understand or if you have doubts about any reading or interpretation therefore, please contact your supplier before using or installing the external roller blind.

In addition to the information on the operation and assembly, this manual also contains important instructions on maintenance and cleaning.

The installing, technical maintenance, correcting failures and any repairs or modifications to the external Roller blinds must only be carried out by competent personnel.

> This manual belongs beside the external roller blind and must be carefully looked after. If the external roller blind is sold the manual must be handed over the new owner.

The owner or holder of the external roller blind must refer users (if third parties) to the manual, and also instruct these third parties to use the external roller blind in accordance with the manual.

For more information you can contact the supplier.

## LIABILITY


THE SUPPLIER'S GENERAL CONDITIONS SHALL GOVERN THE RELATIONSHIP BETWEEN THE SUPPLIER AND THE PURCHASER. THESE CONDITIONS RECOGNISE A LIMIT TO LIABILITY AND EXCLUDE CONSEQUENTIAL LOSS. THE SUPPLIER SHALL, ON THE BASIS OF THE GENERAL CONDITIONS, NOT BE RESPONSIBLE FOR DAMAGE AS A RESULT OF NOT COMPLYING WITH THIS MANUAL, WITH THE EXCEPTION OF INTENTION OR GROSS NEGLIGENCE ON THE PART OF THE SUPPLIER.



## EXPLANATION OF SYMBOLS




 Danger / Warning!

→ Sequence of action

 Important information

## SAFETY INSTRUCTIONS

Important safety instruction! Warning: it is important for the safety of persons that these instructions be followed! These instructions must absolutely be kept!

-  Do not allow children to play with the external roller blind. Keep children away from the (remote) operation and the product.
-  Check your external roller blind regularly for visible damage. If there is any damage to the external roller blind, do not use it anymore and contact your supplier.
-  Do not try under any circumstances to carry out repair work and/or modifications to the external roller blind

## APPROPRIATE USE

Your external roller blind moves in an up or downward movement and is mounted in front of windows or doors to provide:

- Sun protection
- Light control
- Visibility control

Watch out for strong winds and cold weather conditions. Your external roller blind cannot be used in strong winds ( $\geq 8$  m/s) or if frozen.

- Make sure that the external roller blind is pulled in, in time, before the wind speed gets too high. Even in the case of fully automated control, you must pay attention to this.
- It is recommended that you use external control that includes both a wind and frost module. With controls without a frost module, you must switch off the control in the winter period.
- The external roller blind must be used exclusively for sun protection, light control and visibility control. This product is not designed to serve as a lifting or lever service.

# USE

## OPERATION

During the operation the external roller blind can be moved up or down.

- Bring the canvas fully up or down to prevent damage
- Check yourself, prior to use, that the canvas of the external roller blind is not frozen

**⚠** Make sure that there are not persons or obstacles in the radius of action of the blind. If you cannot see during the operation, then you must take steps to prevent accidents.

### *Operation with operating cord or tape*

The operation length, measured from the floor must be operable to a maximum of 1.8 m

#### • **Cord and cleats (2)**

Take operating cord out of the cleats. Hold the cord and pull down or let it go up in accompanying movement, to the required position. Turn the cord around the cleats to stop the blind.

Cord operated blinds should not be installed below 1,5m from floor level and the cleats must be installed as close to the head rail as possible and always at least 1,5m from the floor.

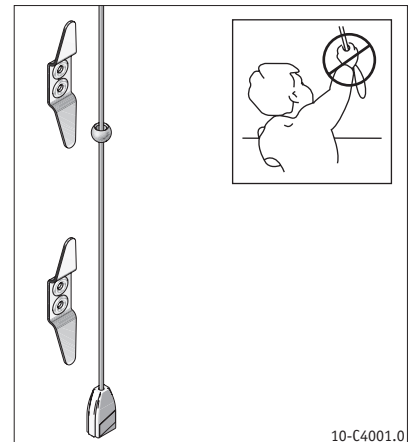
#### **⚠ WARNING**

Young children can be strangled by loops in pull cords, chains, tapes and inner cords that operate the product.

To avoid strangulation and entanglement, keep cords out of the reach of young children. Cords may become wrapped around a child's neck.

Move beds, cots and furniture away from window covering cords.

Do not tie cords together. Make sure cords do not twist and create a loop.



#### • **Tape and strap coiler**

Hold the tape and pull it towards you with up or down in accompanying movement to the required position.

Strap coiler should not be installed below 1,5m from floor level.

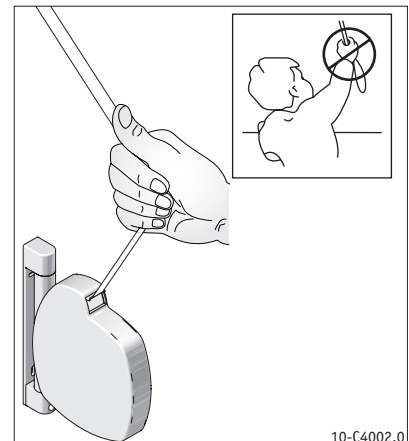
#### **⚠ WARNING**

Young children can be strangled by loops in pull cords, chains, tapes and inner cords that operate the product.

To avoid strangulation and entanglement, keep tape out of the reach of young children. Tape may become wrapped around a child's neck.

Move beds, cots and furniture away from window covering cords.

Do not tie tape together. Make sure tape do not twist and create a loop.

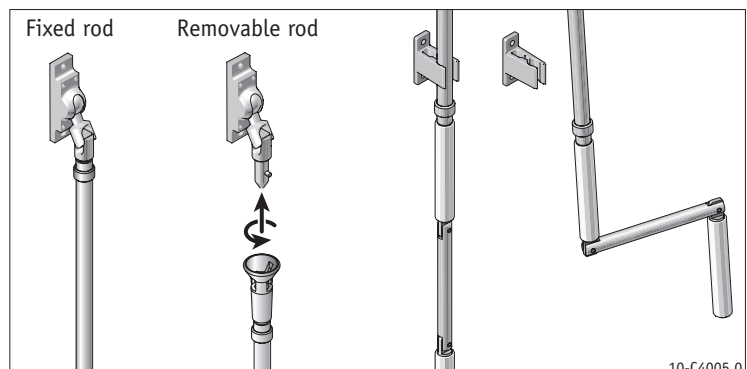


### *Operation with operating rod*

**⚠** The operating rod, measured from the floor must be operable to a maximum height of 1,8m.

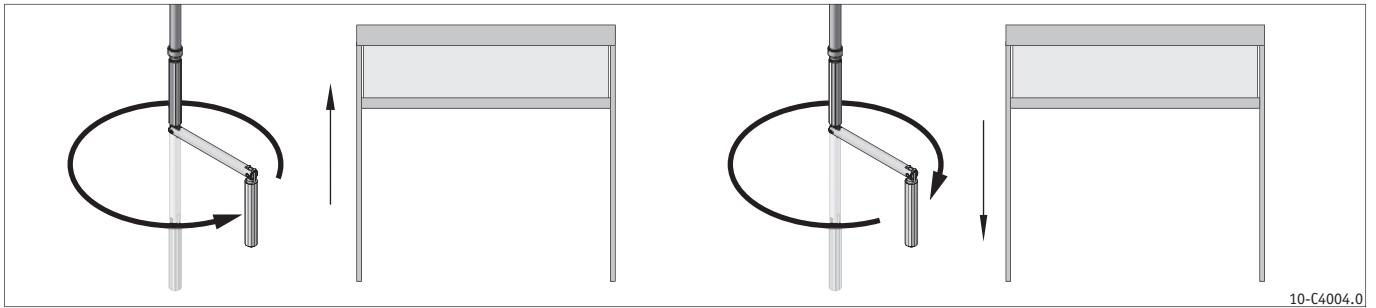
Order of operating

- Fixed rod: take operating rod out of the holder
- Removable rod: attach the operating rod to the coupling
- Crank the handle of the operating handle ready for use; bent it at both 90°.
- Hold the operating rod a bit away from the wall



10C-M-01EN.10

→ Move the canvas by turning the operating rod in the desired direction



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**⚠** Do not try to further continue operating the external roller blind when there is more than normal resistance, through the mechanical limitation. The resistance to be met is subjective, however the force required is a maximum of 40N (approx. 4kg).

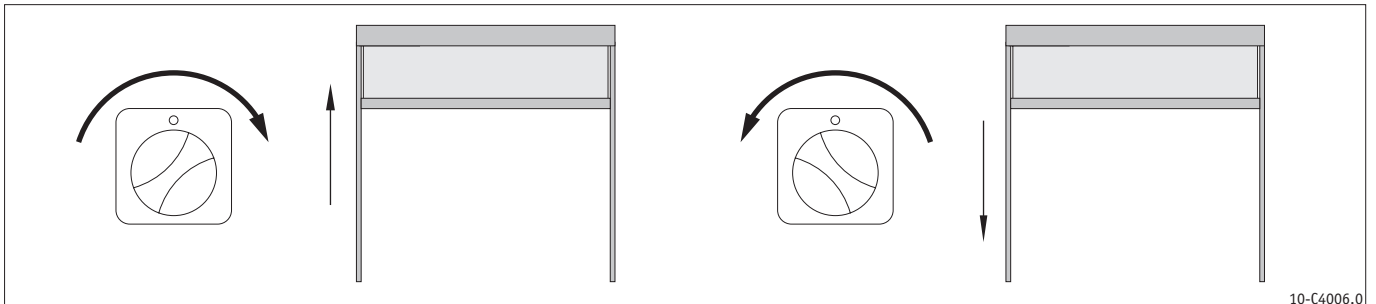
**⚠** After use always place the operating rod back in the designated holder.

### **Operation with motor**

- **Electric motor provided with switch**

The switch is used to both raise and lower the external roller blind.

→ The motors are designed for short use and fitted with a thermal cut-out that temporarily switch off the motor when there is overheating or overloading. After a cooling period of around 15 minutes, the motor can be used again.



10-C4006.0

- **Electric motor connected to an automatic control**

This means that the control is not carried out through a switch, but through an automatic control with priority. Depending on the situation operation may be available through an individual switch.

→ Consult the manual of automatic control

### **CLEANING**

**⚠** When cleaning windows, gable or external roller blind, the power supply must be isolated.

**⚠** Do not hold on tight to the external roller blind or accompanying parts

**⚠** After cleaning, check the right functioning of the product(s)

### **Fabric**

Clean the fabric a minimum once a year, however in seaside or industrial areas, a minimum of twice a year.

→ Lower the external roller blind.

→ Clean with vacuum air or air under pressure.

→ Use clammy fabric. Do not scrub.

→ Rinse with sufficient clear water.

→ In case of spot(s), call your installer.

- Let the canvas dry before rolling it up.
- When there is very bad soiling, we advise you to make contact with your installer.
- In case of tear or cut call immediately your installer who will decide what to do.

 Never use:


- A high pressure cleaner
- Alkali-based or aggressive solutions
- STEEL WOOD HARD BRUSHES OR ABRASIVES

### ***Coated material (Box, Bottom bar and side channels)***

- Check if there is no broken or cracked part including end plugs of bottom bar and side channels.
- Clean side channels with vacuum air or air under pressure to remove any accumulations of deposit (dust, dead leaves....) which may affect the proper functioning.
- To ensure the decorative function and technical properties of your coated material are maintained, it is recommended that a regular cleaning program is undertaken:
  - Normal environment: clean and check every 12 months
  - Marine environment: clean and check every 3 months
  - Industrial environment: clean and check every 3 months
  - Marine and industrial environment: clean and check every 3 months
  - Swimming and leisure pools: clean and check every 3 months
- The best method of care is by regular washing of the coated surface using a solution of warm water and a mild detergent, washed with a soft cloth or sponge. Rinse thoroughly with clear water to remove residue.

### ***Faults and maintenance***

These products have been designed to be used externally and maintenance consists of checking and cleaning (see above) with periodicity. The mechanism and motor do not need to be lubricated nor is any other maintenance necessary. Contact your supplier if there are faults and/or on maintenance. Faults and maintenance must always be solved out by competent personnel.

-  If during use you see smouldering or smoke appear, switch the external roller blind off immediately. Then contact your supplier.

## **INSTALLING**


### ***Delivery***

The product is delivered complete, as per the order

Check the delivery with the packing list. If parts are missing or damaged, you should contact your supplier.

- After Installing the external roller blind, this manual must be given to the owner and/or the user

### ***Transport***

-  Depending on the weight of the product, we recommend having the transport and the installing of the product done by a minimum of 2 people.

### ***Packaging***

The external roller blind is delivered packaged.

- Make sure when removing the packaging that the external roller blind is not damaged.

Dispose the packaging material in accordance with local regulations

### ***Installing instructions***

When installing, comply with the local legislation covering this.

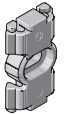
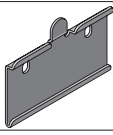
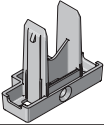
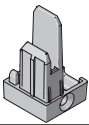
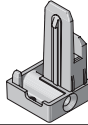
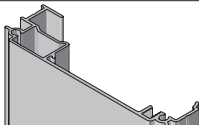
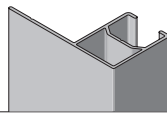
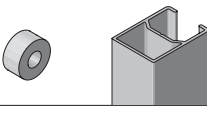
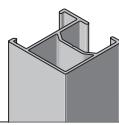
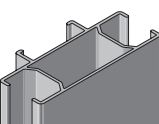
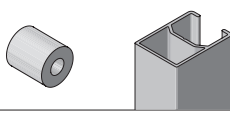
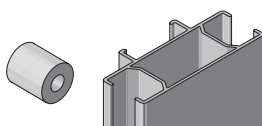
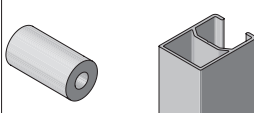
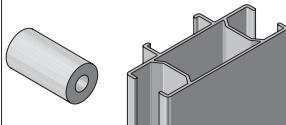
Below are the exploded view and the fasteners list. These are the starting point of the whole instructions; make sure you go through these thoroughly.

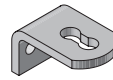
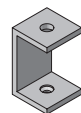
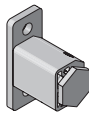


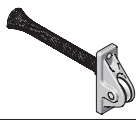
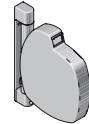


## Fasteners

 Check against the below mentioned table if the fasteners supplied are suitable for the fixing ground.

 Check if the fixing ground is suitable for fastening the product supplied.

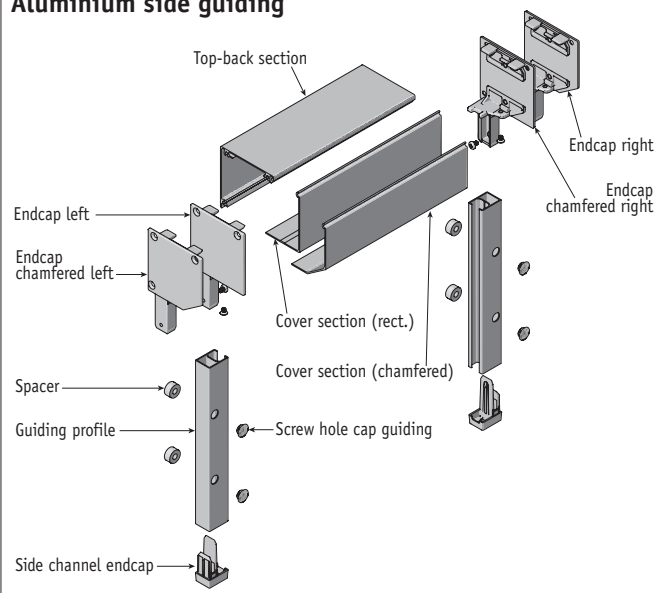
A = Aluminium, W = Wood, C = Concrete

	<b>A</b> DIN 7981 4,8 x 25 <b>W</b> DIN 7996 5,0 x 30 <b>C</b> non applicable
	<b>A</b> DIN 7981 4,2x25 <b>W</b> DIN 571 5,0x40 <b>C</b> DIN 571 5,0x40 S6
  	<b>A</b> DIN 7982 4,2x50 <b>W</b> DIN 7997 4,0x50 <b>C</b> DIN 7982 4,2x60 S6
	<b>A</b> DIN7981 4,2x25 <b>W</b> DIN 7996 4,0x30 <b>C</b> non applicable
	<b>A</b> DIN 7981 4,2x25 <b>W</b> DIN7996 4,0x30 <b>C</b> DIN7981 4,2 x38 S6
	<b>A</b> DIN 7981 4,2x32 <b>W</b> DIN 7996 4,0x30 <b>C</b> DIN 7981 4,2x50 S6
	<b>A</b> DIN 7981 4,2x32 <b>W</b> DIN 7996 4,0x30 <b>C</b> DIN 7981 4,2x50 S6
	<b>A</b> DIN 7981 4,2x32 <b>W</b> DIN 7996 4,0x30 <b>C</b> DIN 7981 4,2x50 S6
	<b>A</b> DIN 7981 4,2x45 <b>W</b> DIN 7997 4,0x50 <b>C</b> DIN 7981 4,2x50 S6
	<b>A</b> DIN 7981 4,2x45 <b>W</b> DIN 7997 4,0x50 <b>C</b> DIN 7981 4,2x50 S6
	<b>A</b> DIN 7982 4,2x50 <b>W</b> DIN 7997 4,0x50 <b>C</b> DIN7981 4,8x70 S6
	<b>A</b> DIN 7982 4,2x50 <b>W</b> DIN 7997 4,0x50 <b>C</b> DIN7981 4,8x70 S6

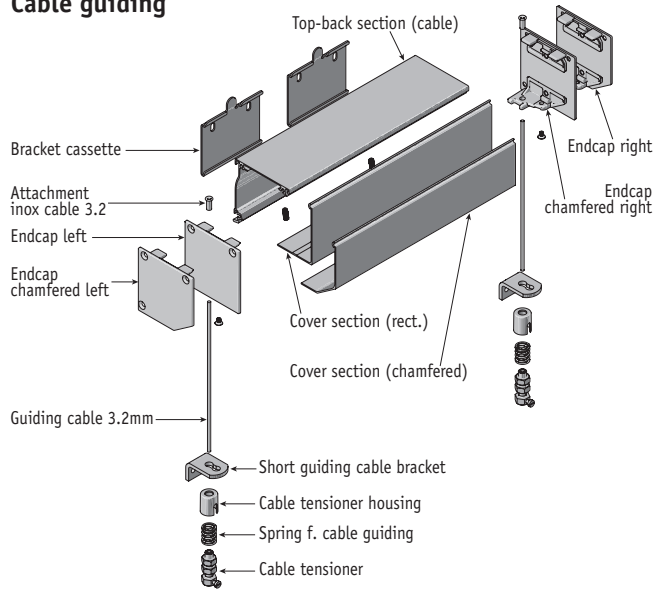
	<b>A</b> DIN 7981 4,2x19 DIN 125 ø 4,3 <b>W</b> DIN 7996 4,0x30 DIN 125 ø 4,3 <b>C</b> DIN 7981 4,2x38 S6 DIN 125 ø 5,3
	<b>A</b> DIN 7982 4,8x32 <b>W</b> DIN 7982 4,8x32 <b>C</b> DIN7982 4,2 x 4 S6
	<b>A</b> DIN 7976 6,3x25 DIN 9021 ø 6,4 <b>W</b> DIN 571 6,0x40 DIN 9021 ø 6,4 <b>C</b> DIN 571 6,0x60 S8 DIN 9021 ø 6,4
	<b>A</b> DIN 7982 3,9x12,7 <b>W</b> DIN 7982 3,9x12,7 <b>C</b> non applicable
	<b>A</b> DIN 7982 3,9x12,7 <b>W</b> DIN 7982 3,9x12,7 <b>C</b> non applicable
	<b>A</b> DIN 7982 3,9x12,7 <b>W</b> DIN 7982 3,9x12,7 <b>C</b> non applicable
	<b>A</b> Included in packing <b>W</b> Included in packing <b>C</b> non applicable
	<b>A</b> DIN 7983 4,8x25 <b>W</b> DIN7995 5,0x30 <b>C</b> DIN 7982 4,2x40 S6
	<b>A</b> DIN 7983 4,2x19 <b>W</b> DIN 7995 5,0x20 <b>C</b> DIN 7995 4,0x25 S6

## Exploded views

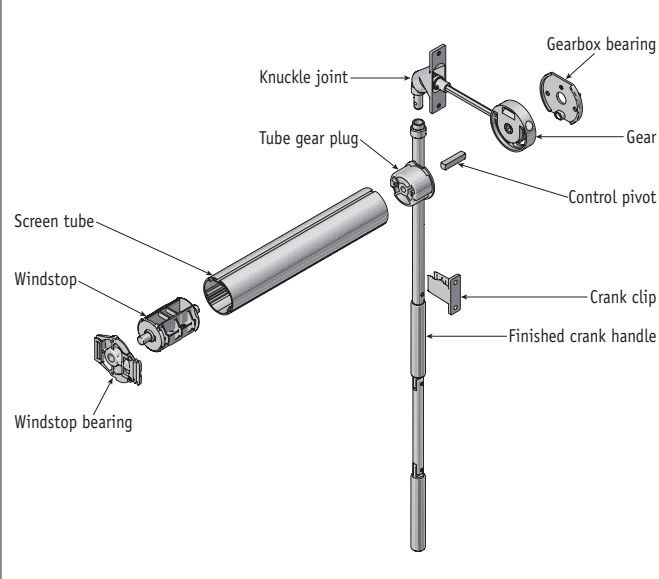
### Aluminium side guiding



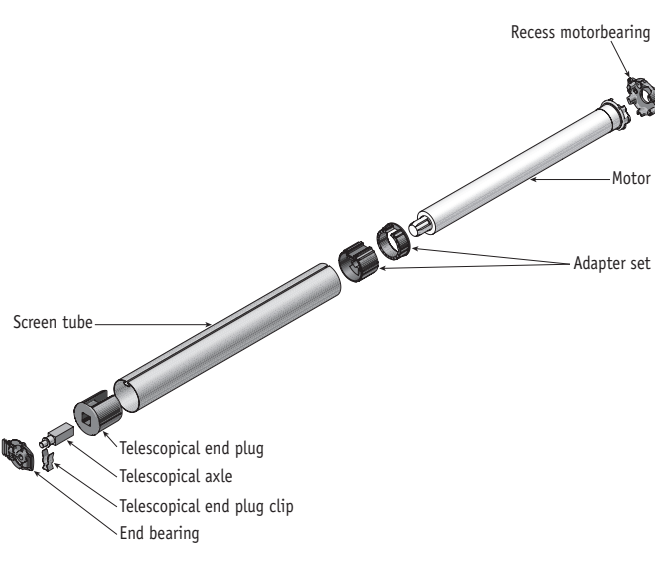
### Cable guiding



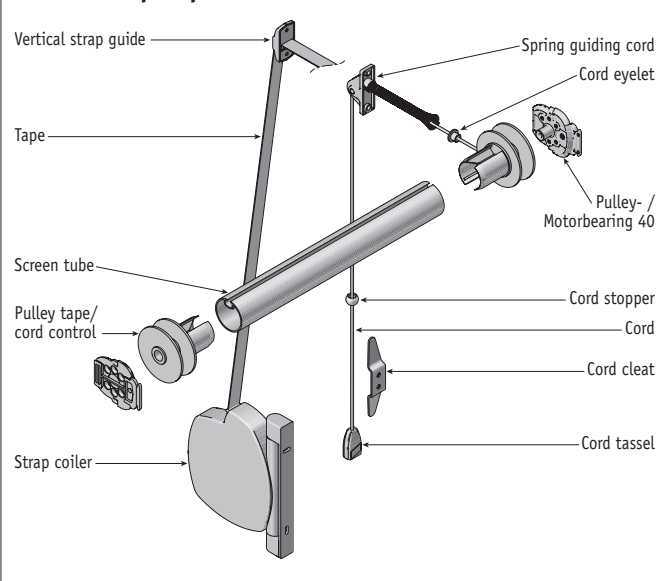
### Crank handle



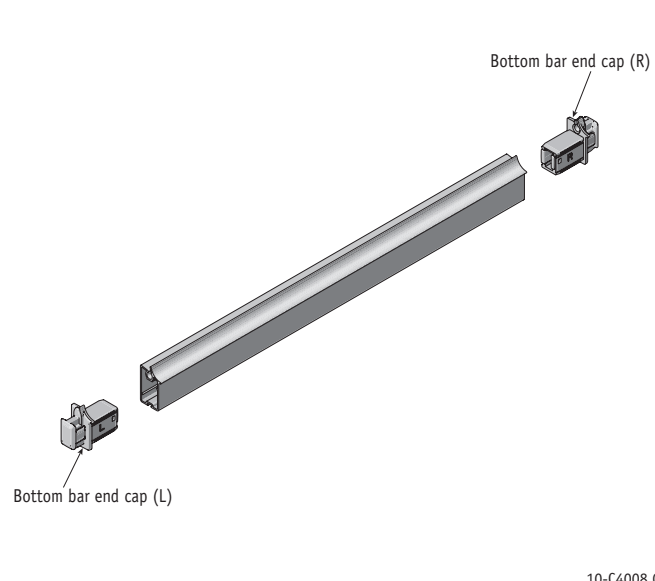
### Electric motor



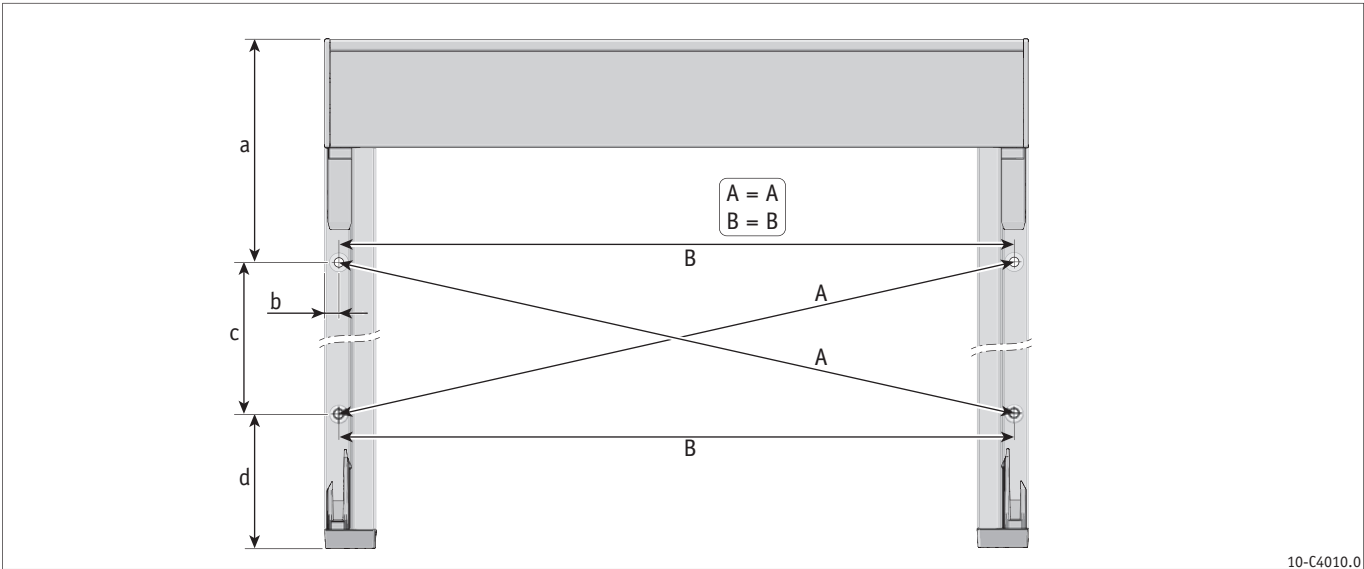
### Cord and tape operation



### Bottom bar

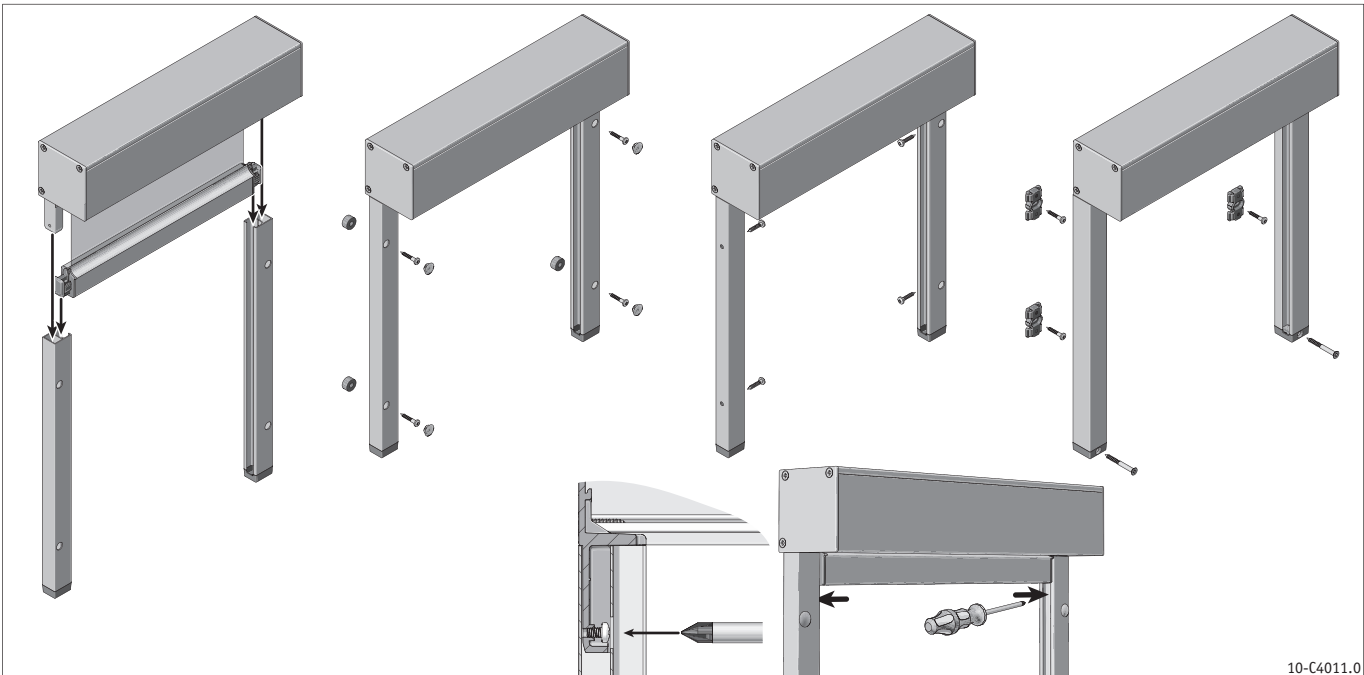


Installation with profile guiding



10-C4010.0

dimensions ↓		Box sizes								
			Single on face	Single in recess	Clipping	Clipping with screw	L shape	Distance bracket	Double clipping	Double with screw
a	57		157	157	257	157	157	257	157	257
	75		175	175	275	175	175	275	175	275
	85		185	185	285	185	185	285	185	285
	95		195	195	295	195	195	295	195	295
b			7.5	7.5	13.5	7.5	-	13.5	0	0
c			1300	1300	800	1300	1300	1300	800	1300
d			110	110	810	110	110	210	810	110



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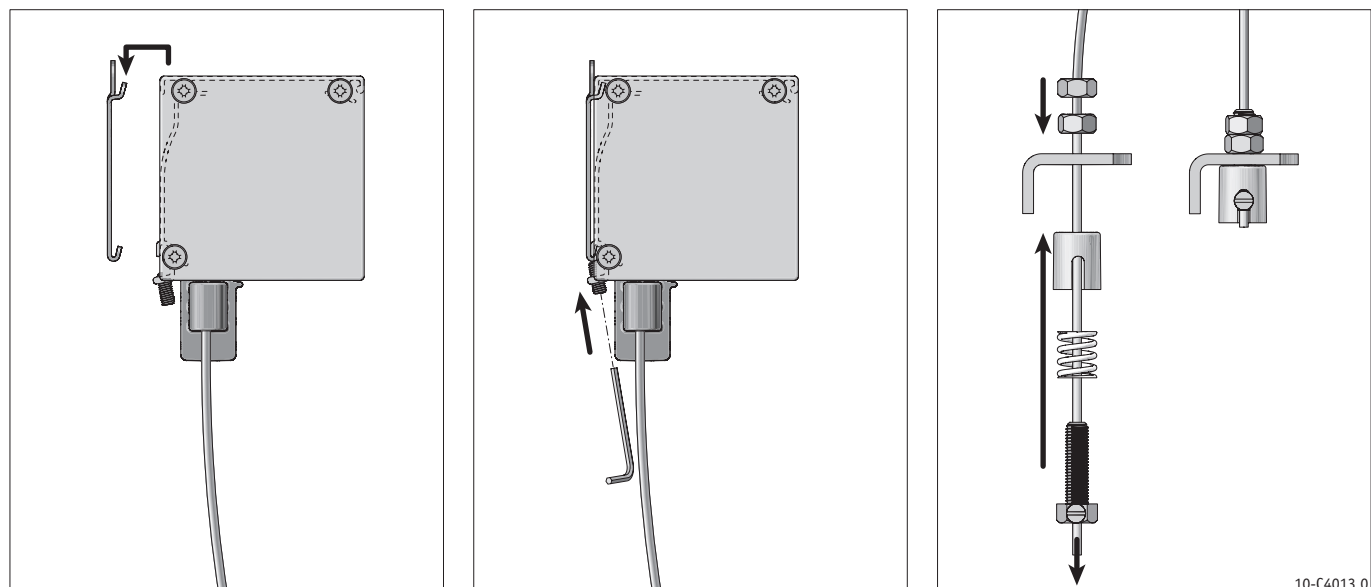
Technical drawing of the 10-C4012 cable bracket assembly, showing dimensions and components.

**Dimensions:**

- Top flange width: 80
- Vertical support height:  $H+20$
- Vertical support width: 17
- Bracket body width: 80
- Bracket body height: 17
- Bracket body width (for box 57): 49
- Bracket body width (for box 75): 68
- Bracket body width (for box 85): 68
- Bracket pin diameter: 6
- Bracket spring length: 25
- Bracket nut height: 30
- Bracket bolt length: 30

**Components:**

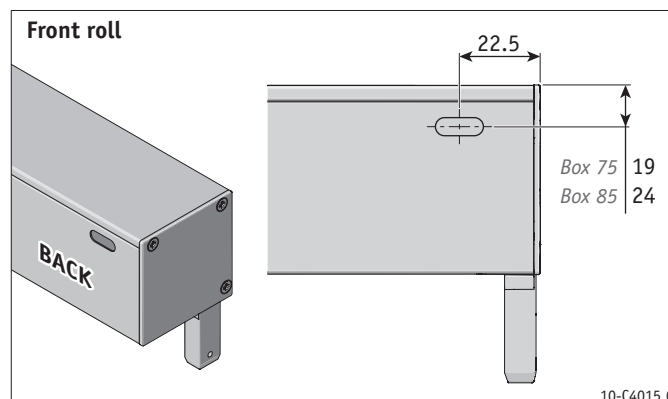
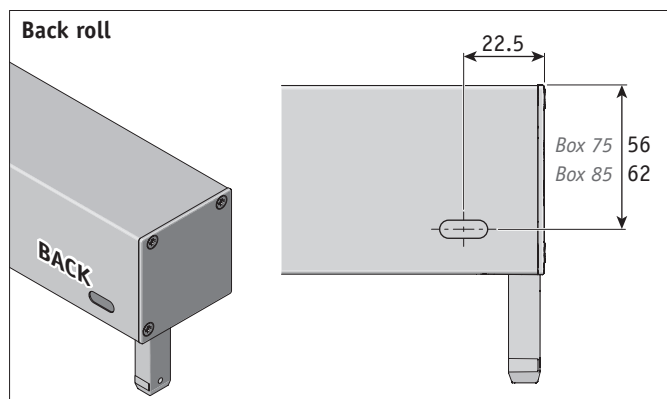
- Top flange
- Vertical support
- Bracket body
- Bracket base
- Bracket pin
- Bracket spring
- Bracket nut
- Bracket bolt





## Tape operation

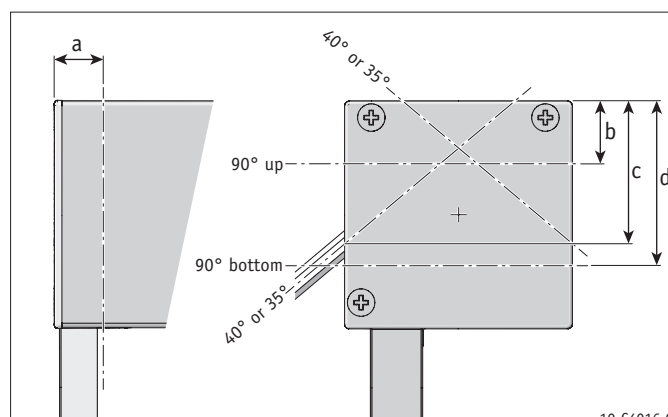
Follow specific instructions joined with the strapped coiler.



10-C4015.0

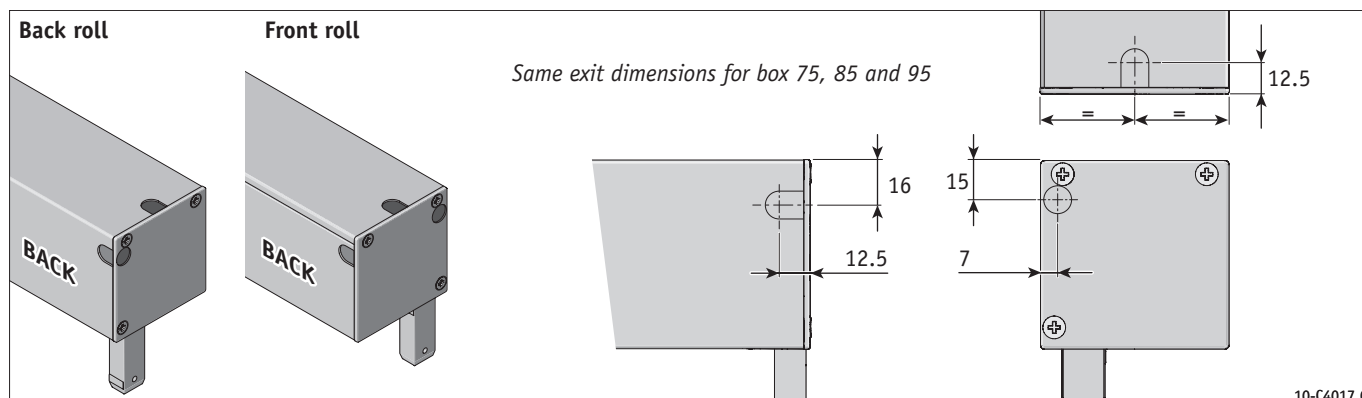
## Crank operation

		Exit angle and values				
		90° up	90° bottom	40°	35°	
		a	b	d	c	d
box sizes	57		16	na	na	33
	57 cable	15	16	na	na	35
	75	15	25	51	52	na
	75 cable	15	25	51	55	na
	85	15	30	56	61	na
	85 cable	15	30	56	64	na



10-C4016.0

## Motor operation

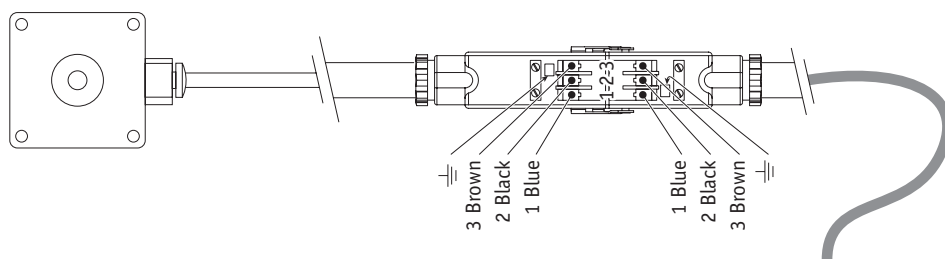


10-C4017.0

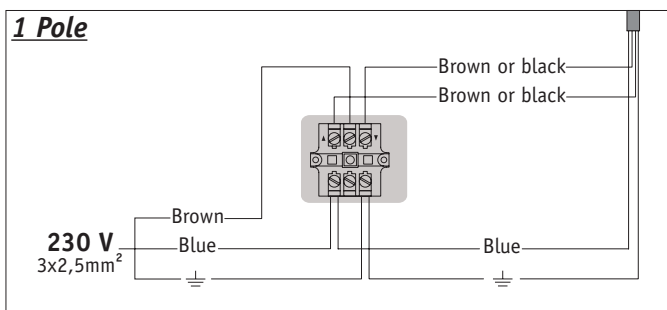
## Wiring diagram

- The electrical connection must only be done by an electro-technical specialist in accordance with current regulations. If the external roller blind is wrongly connected, this can give rise to dangerous situations.
- We cannot be held liable for damage to the motor and/or electrical installations caused by incorrect connection.
- The switch must be fitted in accordance with national and local rules, taking into consideration use by semi-invalid person.

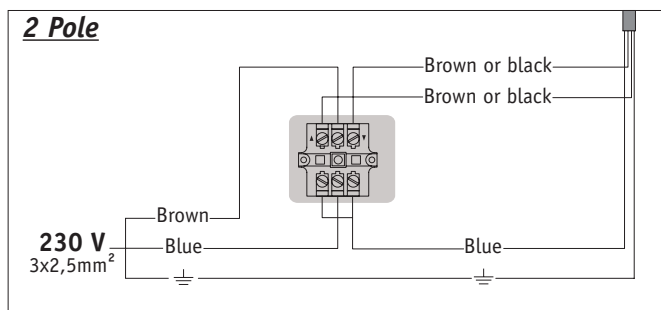
## STAK 3



### 1 Pole



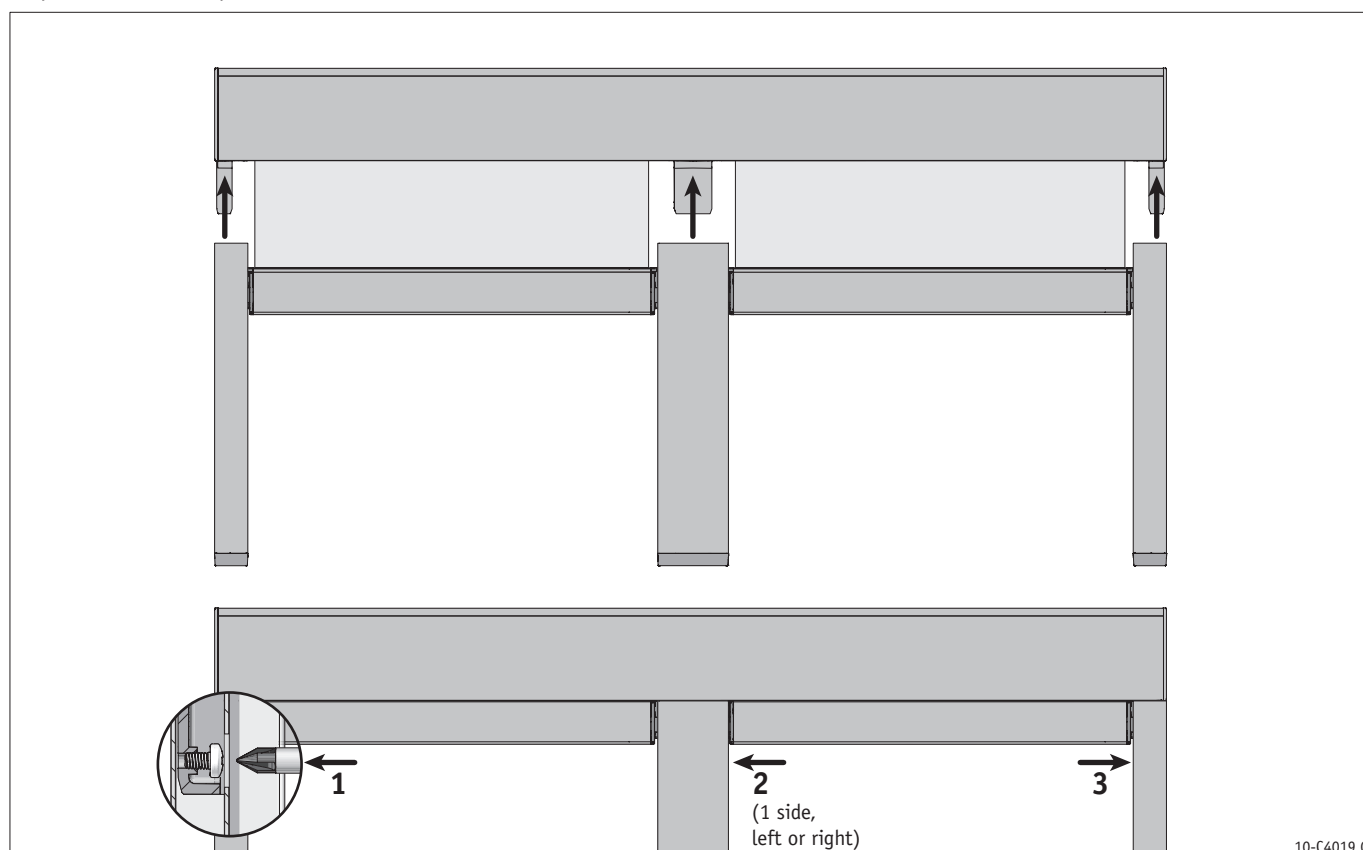
### 2 Pole



## Coupled ProScreen blinds

### • Continuous box

Proceed as above except it is necessary to install the side guiding channels at the same time on the legs of endplates before to put the blind in place.



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- **Seperate boxes**

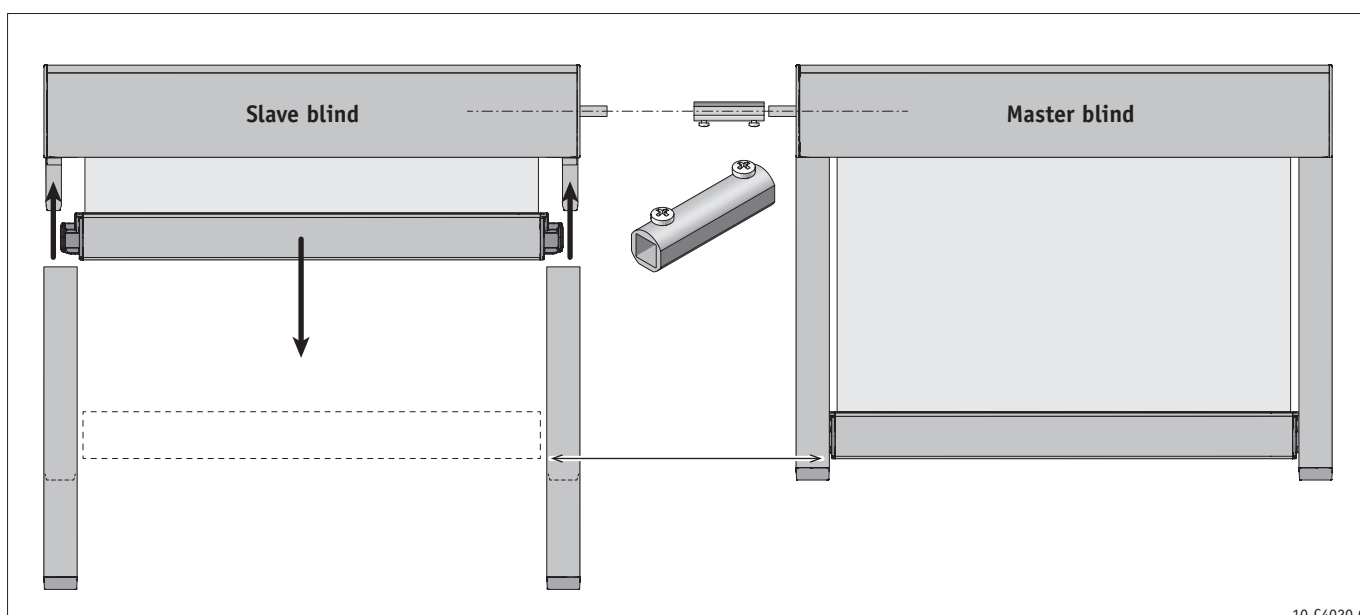
### With shaft connector

#### Master blind

- Install the master blind as a single blind.
- Unroll the fabric to the bottom end stop.
- Place the shaft connector on the master blind axle.

#### Slave blind;

- Place the channels on the end caps of the slave blind and fix them (as with a single blind).
- Let the fabric unroll to the bottom.
- Insert the slave blind on the coupling shaft connector.  
When cable guiding, insert slave blind on the shaft connector. Take care of alignment of bottom bar.
- Fix the channels or cable guiding brackets.
- Tighten screws of shaft connector.
- Open the front or bottom profile of master box and adjust the bottom end stop or do the adjustment through plug end stops when existing.



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### Without shaft connector

#### Slave blind

- Roll the tube with a 12 mm wrench up to highest position.
- Install the blinds on the ground.

#### Master blind

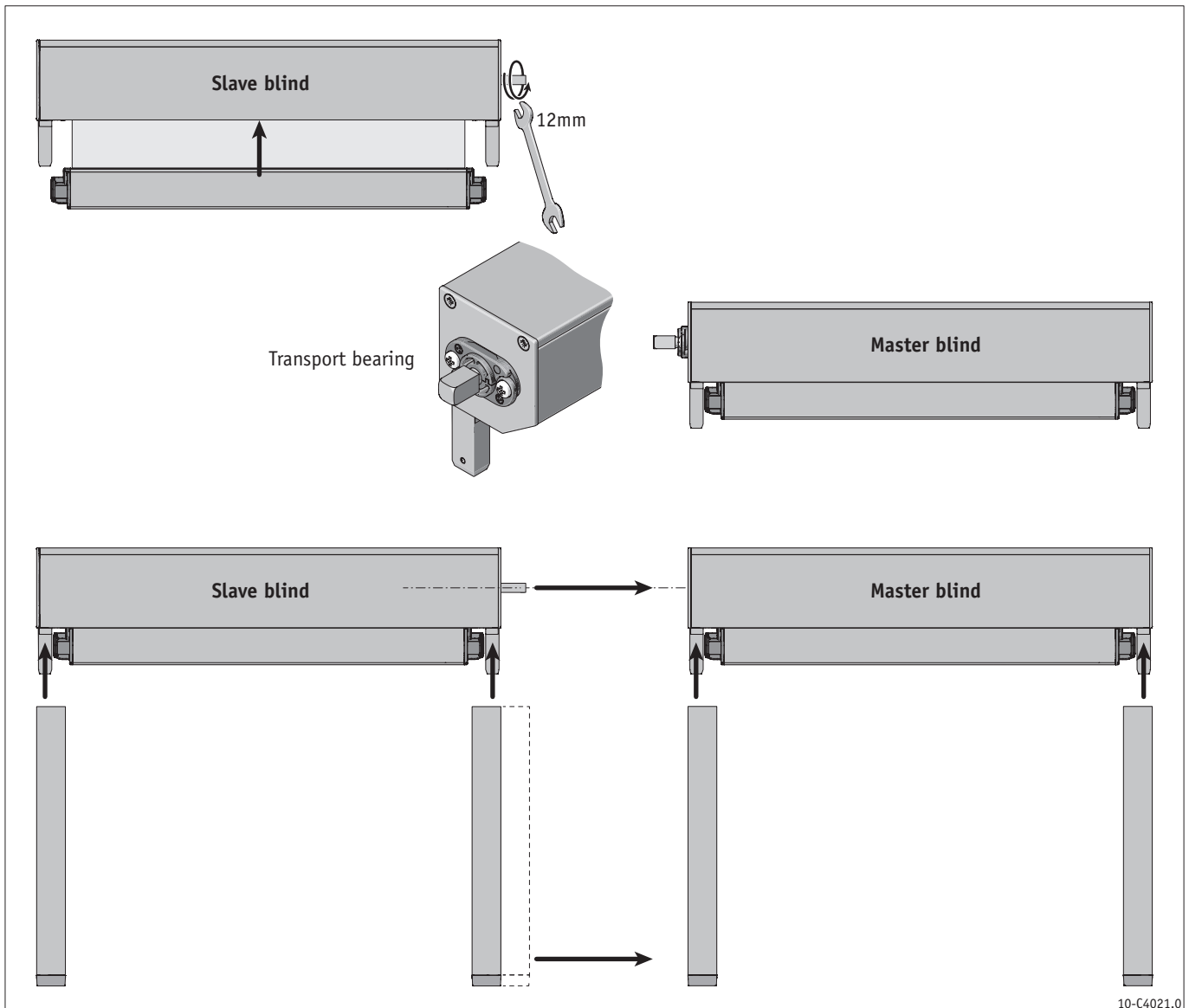
- Open the front or bottom profile of the master blind.
- Dismantle the transport bearing with the axle.
- Insert the axle of the slave blind in the end plug of the master blind. To find the right position help yourself with the same wrench used before and support the tube of master blind.
- Re-install the front or bottom box profile and fix it.

#### Side channels

- Place the side channels on the legs of the end caps, single or double channel at the middle.
- Fix the screws.
- Install the blinds on the façade.
- Fix the channels.

#### Cable guiding

- In case of cable guiding, install the boxes together on brackets as single blinds.
- Fix them.
- Fix the bottom cable brackets.



## DISMANTLE AND MODIFICATION

Dismantle and modification must only be carried out by competent personnel.